

ALABAMA

Alabama ranked eighteenth among the States in value of products of mineral industries in 1939 and seventh in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 76 percent of that in 1929, and the number of wage earners 80 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 68 percent of that in 1919, and the number of wage earners 77 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 93 percent of that in 1929, but 69 percent greater than in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 67 percent

of the total value of products and 75 percent of the total number of wage earners. (See table 2.) The iron-ore industry, which ranked second, produced 24 percent of the total value of products and employed 19 percent of the total number of wage earners. The State accounted for 12 percent of the iron ore produced by the iron-ore industry in the United States (ranking third in this industry among all States) and 3 percent of the coal produced by the bituminous-coal industry. (See reports for these industries.)

Other mineral industries in the State were bauxite, manganese ore, limestone, sandstone, marble, miscellaneous stone, sand and gravel, clay and shale, barite, and native asphalt and bitumens. Mineral operations were located in 35 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN ALABAMA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1939 ¹	1919
Number of mines and quarries-----	340	325	255	305	346
Value of all products-----	\$41,685,129	\$41,554,987	\$54,665,650	\$40,777,424	\$59,866,040
Number of persons engaged, total-----	27,076	26,985	55,761	26,591	34,632
Wage earners (average for the year)-----	25,661	25,578	51,978	25,243	32,579
Salaried employees-----	1,151	1,176	1,757	1,125	2,012
Proprietors and firm members-----	256	233	46	225	41
Performing manual labor-----	165	164	(²)	161	6
Principal expenses designated below, total-----	\$34,252,799	\$34,163,391	\$46,183,967	\$33,612,333	\$50,892,820
Wages-----	\$23,674,120	\$23,622,866	\$30,938,008	\$23,403,026	\$38,229,725
Salaries-----	\$2,696,272	\$2,659,989	\$3,521,675	\$2,541,278	\$3,954,834
Supplies and materials-----	\$5,845,882	\$5,951,350	\$6,341,594	\$5,726,779	\$7,480,910
Fuel-----	\$482,782	\$472,180	\$759,172	\$400,514	\$2,431,350
Purchased electric energy-----	\$1,542,008	\$1,355,582	\$2,118,646	\$1,299,001	\$648,935
Contract work-----	\$241,755	\$241,755	\$95,072	\$241,755	\$167,070
Cost of machinery and equipment installed during year-----	\$2,306,848	\$2,303,466	\$1,792,511	\$2,279,501	(²)
Horsepower rating of power equipment, total-----	253,211	251,978	270,615	246,101	145,775
Per wage earner-----	9.9	9.9	8.5	9.7	4.8
Prime movers-----	46,800	45,478	54,934	41,565	92,657
Electric motors driven by purchased energy-----	206,911	206,505	215,681	204,536	53,118
Electric energy consumed (thousands of kw.-hrs.), total-----	258,758	258,321	283,607	255,181	(²)
Purchased-----	185,551	165,134	234,765	161,997	(²)
Generated by reporting companies-----	93,187	93,187	48,842	93,184	(²)

¹ Includes 13 limestone quarries, with products valued at \$350,600, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

² Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ALABAMA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Bituminous coal	Metallic ores		Stone		
				Iron ore	Bauxite and manganese ore ¹	Crushed and broken		Rough- dimension limestone, sandstone, and marble ²
						Limestone	Sandstone, marble, and miscel- laneous ³	
Number of operating companies ⁴	290	282	202	25	3	17	3	3
Number of mines and quarries	341	340	231	32	5	21	3	4
Number of preparation plants	106	106	52	11	1	15	1	—
Value of all products ⁵	\$41,851,619	\$41,685,129	\$27,790,156	\$10,024,197	\$2,205	\$2,317,517	\$52,620	\$231,528
Number of persons engaged, total	27,193	^a 27,078	20,105	5,074	37	933	58	90
Wage earners (average for the year)	25,758	25,661	19,178	4,820	33	890	61	88
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	27,657	27,618	21,612	4,531	31	790	51	38
February	28,177	28,123	21,908	4,640	27	888	56	35
March	28,388	28,544	22,000	4,655	32	903	46	105
April	12,841	12,786	6,385	4,762	28	873	45	95
May	21,222	21,181	14,751	4,764	30	876	45	95
June	25,890	25,790	19,207	4,885	32	871	45	101
July	28,850	28,708	20,260	4,759	35	882	46	114
August	28,491	28,568	19,922	4,781	32	879	47	107
September	28,762	28,807	19,960	4,878	34	912	47	107
October	27,642	27,501	20,728	4,969	42	956	61	105
November	28,537	28,407	21,629	5,099	38	933	62	61
December	28,641	28,496	21,749	5,100	31	922	64	63
Salaried employees	1,195	^a 1,181	728	239	3	35	4	3
Proprietors and firm members	240	236	199	15	1	7	1	1
Performing manual labor	168	165	150	9	—	1	1	—
Principal expenses designated below, total	⁷ \$34,452,236	⁶ \$34,232,799	\$23,050,838	\$8,284,445	\$51,027	\$1,626,577	\$45,195	\$98,725
Wages	\$25,763,806	\$25,674,120	\$16,854,008	\$5,534,022	\$15,132	\$840,698	\$29,209	\$82,645
Salaries	\$2,694,622	^a \$2,668,272	\$1,564,786	\$663,639	\$5,681	\$88,911	\$4,064	\$5,355
Supplies and materials	\$5,858,949	\$5,845,882	\$3,714,017	\$1,531,022	\$1,205	\$455,514	\$3,315	\$12,207
Fuel	\$501,437	\$482,782	\$185,633	\$148,651	\$4,874	\$44,194	\$2,740	\$5,233
Purchased electric energy	\$1,342,008	\$1,342,008	\$372,397	\$459,191	\$1,219	\$141,318	\$5,875	\$12,287
Contract work	⁸ \$301,414	\$241,735	\$31,799	\$57,920	\$23,116	\$75,942	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$2,897,913	\$2,855,391	\$1,299,226	\$1,181,990	\$325	\$242,840	\$1,535	\$492
Buildings	\$560,331	\$548,545	\$301,088	\$119,441	—	\$58,799	—	\$492
Machinery and equipment, total	\$2,337,582	\$2,306,846	\$998,138	\$1,062,549	\$325	\$184,041	\$1,535	—
Purchased in new condition	\$2,205,019	\$2,187,048	\$919,863	\$1,060,349	\$25	\$159,409	\$1,535	—
Purchased in used condition	\$132,563	\$119,800	\$78,275	\$2,200	\$300	\$24,632	—	—
Number of man-hours worked by wage earners	39,827,006	39,608,079	27,609,662	8,783,470	42,496	1,795,255	94,707	185,832
Average hourly earning of wage earners	\$0.60	\$0.60	\$0.61	\$0.65	\$0.36	\$0.47	\$0.31	\$0.34
Horsepower rating of prime movers and electric motors driven by purchased energy, total	254,264	253,211	150,302	84,415	262	24,621	587	2,786
Per wage earner	9.9	9.9	7.8	13.4	7.9	27.7	11.5	32.4
Prime movers	47,103	46,300	29,610	4,798	157	3,839	132	1,332
Electric motors driven by purchased energy	207,161	206,911	120,692	59,617	105	20,883	455	1,453
Horsepower rating of electric motors driven by energy generated by reporting companies	78,827	78,827	78,252	—	—	550	—	—
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	^a 1	1	—	—	—	—	1	—
Bituminous coal (tons of 2,000 pounds)	^a 148,052	148,052	72,707	52,468	—	6,425	1,200	1,606
Fuel oils (barrels of 42 gallons)	^a 25,220	25,220	3,044	4,713	—	9,011	720	—
Gasoline and kerosene (gallons)	^a 448,941	448,941	95,195	144,806	—	1,481	—	—
Natural gas (thousands of cubic feet)	^a 13,000	13,000	—	—	—	80,106	2,580	952
Electric energy consumed (thousands of kw.-hrs.), total	^a 258,738	258,738	159,910	70,964	49	23,839	446	637
Purchased	165,551	165,551	68,562	70,956	49	23,011	446	637
Generated by reporting companies	^a 93,187	93,187	92,348	8	—	828	—	—

¹Represents 4 mines and 1 mill in the bauxite industry and 1 manganese-ore mine.²Represents 2 rough-dimension limestone quarries, 1 rough-dimension sandstone quarry, and 1 rough-dimension marble quarry.³Represents 1 crushed and broken sandstone quarry, 1 crushed and broken marble quarry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.⁴Companies with operations in more than 1 industry are counted only once in the totals.⁵Includes amounts received or due for contract services performed during the year.⁶Includes statistics for employees at central offices not classified by industry.⁷Contract-service operators were not asked to report expenditures for contract work.⁸Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ALABAMA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ^a	Nonproducing operations ¹⁰
	Sand and gravel		Clay and shale			Barite and native asphalt and bitumens ¹¹		
	Common sand and gravel	Foundry sand	Fire clay	Common clay and shale	Kaolin and ball-clay and bentonite ¹²			
Number of operating companies ⁴	12	3	4	15	3	3	6	3
Number of mines and quarries	17	3	4	15	2	3		1
Number of preparation plants	17	1		3	2	3		
Value of all products ⁵	\$734,227	\$43,536	\$63,918	\$130,142	\$34,272	\$181,011	\$166,490	
Number of persons engaged, total	356	58	88	93	56	85	94	21
Wage earners (average for the year)	285	50	81	85	33	71	78	19
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	271	50	81	90	13	60	39	
February	276	50	80	85	13	68	54	
March	297	50	78	97	13	72	44	
April	287	50	79	88	13	60	55	
May	290	50	78	92	17	53	41	
June	287	51	85	87	42	97	100	
July	290	51	77	70	46	76	103	41
August	270	53	83	72	45	77	102	21
September	291	53	80	83	38	94	106	39
October	281	49	92	94	56	49	101	40
November	287	49	85	78	53	43	88	42
December	287	51	81	85	45	38	103	42
Salaried employees	51	2	4	5	3	14	12	2
Proprietors and firm members	2	6	1	3			4	
Performing manual labor	1	2		1			3	
Principal expenses designated below, total	\$522,284	\$28,774	\$35,534	\$89,408	\$42,257	\$111,882	⁷ \$124,789	\$74,648
Wages	\$197,520	\$22,320	\$25,877	\$51,254	\$18,802	\$42,635	\$75,997	\$13,669
Salaries	\$115,691	\$2,700	\$4,800	\$6,403	\$4,422	\$41,577	\$17,070	\$1,280
Supplies and materials	\$101,649	\$2,931	\$4,092	\$14,525	\$10,000	\$15,417	\$13,067	
Fuel	\$71,299	\$367	\$775	\$10,602	\$3,481	\$5,833	\$18,665	
Purchased electric energy	\$35,925	\$456		\$6,626	\$594	\$6,120	(¹³)	\$59,679
Contract work					\$2,958			
Cost of buildings, machinery, and equipment erected or installed during year	\$81,488	\$2,184	\$1,461	\$3,382	\$19,477	\$20,891		\$42,522
Buildings	\$59,607	\$200	\$646		\$8,686	\$1,604		\$11,788
Machinery and equipment, total	\$21,881	\$1,984	\$815	\$3,382	\$12,811	\$19,387		\$30,734
Purchased in new condition	\$18,331	\$1,984	\$315	\$382	\$12,286	\$12,639		\$17,971
Purchased in used condition	\$3,550		\$500	\$3,000	\$525	\$6,748		\$12,763
Number of man-hours worked by wage earners	597,653	87,595	80,208	151,100	69,524	106,597	189,141	34,785
Average hourly earning of wage earners	\$0.33	\$0.25	\$0.32	\$0.34	\$0.27	\$0.39	\$0.40	\$0.39
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,637	240	332	1,233	295	2,482	1,053	
Per wage earner	19.9	4.8	4.3	14.5	8.9	35.0	13.5	
Prime movers	3,738	170	352	827	198	1,348	803	
Electric motors driven by purchased energy	1,899	70		406	97	1,134	250	
Horsepower rating of electric motors driven by energy generated by reporting companies	25							
Fuels consumed:								
Anthracite (tons of 2,000 pounds)							(¹³)	
Bituminous coal (tons of 2,000 pounds)	10,452		185	2,294		715	(¹³)	
Fuel oils (barrels of 42 gallons)	5,107	14		48	1,082		(¹³)	
Gasoline and kerosene (gallons)	98,529	1,600	2,311	14,569	500	16,170	(¹³)	
Natural gas (thousands of cubic feet)	13,000						(¹³)	
Electric energy consumed (thousands of kw.-hrs.), total	3,125	1.5		417	23	513	(¹³)	
Purchased	3,122	1.5		417	23	513		
Generated by reporting companies	3						(¹³)	

⁴Companies with operations in more than 1 industry are counted only once in the totals.⁵Includes amounts received or due for contract services performed during the year.⁷Contract-service operators were not asked to report expenditures for contract work.⁸The report from each contracting concern covered the activities of the concern in all States but was classified in the State in which the concern did the major portion of its work.¹⁰Represents operations of 2 companies in the crude-petroleum and natural-gas industry and 1 iron-ore mine.¹¹Represents 1 mine and 1 preparation plant in the barite industry, and 2 mines and 2 preparation plants in the native asphalt and bitumens industry.¹²Represents 1 mine and 1 preparation plant in the kaolin and ball-clay industry, and 1 mine and 1 preparation plant in the bentonite industry.¹³Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ALABAMA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Bibb	Blount	Calhoun	Cherokee	Colbert	Cullman	Dallas	Elmore	Etowah	Franklin
Number of operating companies ¹	262	12	14	4	8	5	11	5	5	9	5
Number of mines and quarries	340	12	15	4	11	5	11	5	5	10	6
Number of preparation plants	106	6	4	2	1	5	—	2	2	2	3
Value of all products	\$41,685,129	\$1,487,902	\$579,623	\$121,723	\$98,507	\$244,213	\$85,546	\$87,631	\$75,042	\$188,287	\$404,260
Number of persons engaged, total	27,078	1,278	495	78	81	105	150	58	56	181	214
Wage earners (average for the year)	25,661	1,213	474	70	68	87	116	51	47	168	204
Salaried employees	1,181	61	10	3	1	18	1	6	9	5	9
Proprietors and firm members	256	4	11	3	12	—	15	1	—	10	1
Performing manual labor	165	2	9	1	9	—	9	1	—	4	1
Principal expenses designated below, total	\$4,252,799	\$1,401,752	\$433,700	\$93,608	\$59,919	\$146,123	\$82,115	\$75,022	\$46,599	\$157,747	\$270,923
Wages	\$2,674,120	\$1,035,871	\$287,192	\$45,048	\$47,891	\$52,012	\$54,227	\$28,992	\$16,275	\$99,256	\$152,282
Salaries	\$2,668,272	\$1,034,450	\$287,192	\$45,048	\$47,891	\$52,012	\$54,227	\$28,992	\$16,275	\$99,256	\$152,282
Supplies and materials	\$5,845,882	\$1,588,945	\$36,758	\$28,318	\$4,575	\$21,905	\$5,751	\$21,402	\$7,439	\$25,064	\$55,696
Fuel	\$482,782	\$31,933	\$13,512	\$9,208	\$4,373	\$9,568	\$1,019	\$10,462	\$2,260	\$1,587	\$25,032
Purchased electric energy	\$1,342,008	\$22,555	\$17,442	\$900	\$177	\$6,581	\$914	\$7,679	\$4,506	\$9,540	\$22,858
Contract work	\$241,755	—	\$1,081	—	\$1,125	—	—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$2,855,591	\$20,729	\$28,850	\$13,481	\$9,374	\$16,645	\$1,100	\$9,650	\$9,112	\$11,234	—
Buildings	\$549,543	—	\$1,571	—	\$25	\$1,804	\$1,000	\$9,000	—	—	—
Machinery and equipment	\$2,306,048	\$20,729	\$27,279	\$13,481	\$9,349	\$15,039	\$1,000	\$1,650	\$9,112	\$11,234	—
Horsepower rating of prime movers and electric motors driven by purchased energy, total	253,211	9,671	3,291	448	320	2,657	157	829	781	998	5,999
Prime movers	46,300	2,690	2,369	403	320	1,483	145	418	419	178	3,721
Electric motors driven by purchased energy	206,911	6,781	922	45	—	1,174	12	410	562	820	2,178
Horsepower rating of electric motors driven by energy generated by reporting companies	78,827	1,700	—	—	—	—	—	—	—	—	—
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	1	—	—	1	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	148,052	13,943	3,111	1,250	20	1,806	—	1,100	—	114	6,567
Fuel oils (barrels of 42 gallons)	25,220	572	504	710	45	58	103	500	—	19	223
Gasoline and kerosene (gallons)	448,841	12,097	32,934	8,084	20,565	16,102	3,205	30,000	6,419	5,607	13,135
Natural gas (thousands of cubic feet)	13,000	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	258,758	8,865	1,002	40	18	330	27	567	218	659	1,533
Purchased	165,551	7,065	1,002	40	18	330	27	567	218	659	1,525
Generated by reporting companies	93,187	1,800	—	—	—	—	—	—	—	—	8

ITEM	Jefferson	Madison	Marion	Montgomery	Russell	St. Clair	Shelby	Talladega	Tuscaloosa	Walker	All other ²
Number of operating companies ¹	67	3	21	3	3	6	27	4	25	47	20
Number of mines and quarries	94	3	20	3	3	10	29	4	28	53	27
Number of preparation plants	29	1	3	2	—	3	8	1	5	15	14
Value of all products	\$26,516,465	\$38,009	\$728,070	\$245,057	\$18,370	\$2,414,463	\$1,342,552	\$156,994	\$819,833	\$5,057,680	\$879,802
Number of persons engaged, total	16,501	20	554	102	10	1,624	1,102	110	533	3,491	557
Wage earners (average for the year)	15,457	17	516	92	8	1,609	1,024	104	495	3,354	509
Salaried employees	799	1	15	10	1	11	52	4	17	114	56
Proprietors and firm members	45	2	23	—	1	4	28	2	25	43	12
Performing manual labor	32	1	19	—	—	2	17	—	16	36	6
Principal expenses designated below, total	\$22,519,048	\$16,506	\$582,535	\$198,722	\$10,648	\$1,748,231	\$1,144,934	\$92,351	\$559,112	\$4,028,707	\$632,499
Wages	\$15,598,167	\$9,330	\$415,982	\$74,810	\$6,017	\$1,387,915	\$748,987	\$55,559	\$317,539	\$2,687,251	\$559,889
Salaries	\$1,877,973	\$2,340	\$29,090	\$35,610	\$1,153	\$26,528	\$135,577	\$6,886	\$37,783	\$215,932	\$64,598
Supplies and materials	\$4,041,126	\$1,393	\$105,445	\$35,041	\$779	\$197,959	\$173,750	\$11,142	\$102,508	\$69,681	\$113,130
Fuel	\$166,545	\$3,443	\$32,682	\$1,240	\$76,935	\$4,712	\$5,972	\$28,579	\$5,977	\$45,209	\$45,209
Purchased electric energy	\$732,568	—	\$28,708	\$22,579	\$1,356	\$16,258	\$81,928	\$15,962	\$16,321	\$248,587	\$27,186
Contract work	\$103,151	—	\$2,973	—	—	\$42,637	—	—	\$55,802	\$479	\$24,487
Cost of buildings, machinery, and equipment erected or installed during year	\$1,970,851	\$150	\$28,490	\$59,576	\$382	\$193,774	\$32,611	\$2,337	\$98,026	\$326,295	\$29,726
Buildings	\$205,478	—	\$6,666	\$47,607	—	\$149,432	\$10,674	\$492	\$4,000	\$108,146	\$3,660
Machinery and equipment	\$1,765,373	\$150	\$21,824	\$11,969	\$382	\$144,342	\$21,937	\$1,845	\$94,026	\$218,149	\$26,076
Horsepower rating of prime movers and electric motors driven by purchased energy, total	134,649	272	3,804	1,979	223	11,840	8,308	1,261	5,937	56,376	5,413
Prime movers	12,711	272	332	937	148	11,265	426	491	2,925	1,221	3,215
Electric motors driven by purchased energy	121,938	—	3,572	1,042	75	575	7,870	770	1,012	55,155	2,198
Horsepower rating of electric motors driven by energy generated by reporting companies	68,108	—	—	—	—	8,966	—	—	—	—	53
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	72,068	282	351	5,185	—	33,280	1,166	2,508	2,420	665	2,416
Fuel oils (barrels of 42 gallons)	2,467	351	197	2,500	48	—	87	720	3,421	389	12,556
Gasoline and kerosene (gallons)	116,498	3,500	4,084	30,020	5,800	810	10,144	1,549	65,779	15,583	42,948
Natural gas (thousands of cubic feet)	—	—	—	13,000	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	186,848	—	2,218	2,280	106	16,342	6,580	935	1,070	25,282	1,800
Purchased	111,581	—	2,218	2,280	106	2,458	6,580	935	1,070	25,282	1,772
Generated by reporting companies	75,467	—	—	—	—	15,884	—	—	—	—	28

¹ Companies with operations in more than 1 county are counted only once in the totals.² Barbour, Chilton, Clarke, Coosa, Crenshaw, De Kalb, Escambia, Fayette, Jackson, Marengo, Mobile, Morgan, Pike, Washington, and Winston.

ARIZONA

Arizona ranked fifteenth among the States in value of products of mineral industries in 1939 and nineteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 46 percent of that in 1929, and the number of wage earners 56 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the value of products was 62 percent of that in 1919, and the number of wage earners 61 percent. These changes are accounted for principally by decreases in the copper-ore industry. Total horsepower rating of power equipment at mineral operations in 1939 was 139 percent of that in 1929 and 168 percent of that in 1919.

The copper-ore industry accounted for 86 percent of the value of products of mineral industries in the State in 1939, and for 74 percent of the wage earners employed. (See table 2.) The lode-gold industry, which ranked second in the State,

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

produced 9 percent of the total value of products and employed 15 percent of the wage earners. The State accounted for 33 percent of the value of products of the copper-ore industry in the United States, and for 29 percent of the wage earners in the industry; the State also accounted for 13 percent of the total value of products of the asbestos industry. Arizona ranked first among all States in the copper-ore industry and second in the asbestos industry, on the basis of value of products. (See reports for these industries.)

Other mineral industries in the State were bituminous coal, placer gold, silver ore, lead ore, zinc ore, mercury, molybdenum ore, tungsten ore, vanadium and uranium ore, limestone, sandstone, marble, miscellaneous stone, common clay and shale, bentonite, common sand and gravel, feldspar, and fluorspar. Mineral operations were located in all 14 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN ARIZONA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 AND 1929 (All industries)		1939 AND 1919 (Excluding the common sand and gravel industry)	
	1939 ¹	1929	1939 ¹ ²	1919
Number of mines and quarries-----	172	158	169	172
Value of all products-----	\$54,126,556	\$116,477,556	\$54,044,747	\$86,950,055
Number of persons engaged, total-----	10,452	18,184	10,412	16,881
Wage earners (average for the year)-----	9,535	16,567	9,520	15,286
Salaries-----	981	1,499	976	1,458
Proprietors and firm members-----	116	68	116	105
Performing manual labor-----	86	(³)	86	68
Principal expenses designated below, total-----	\$50,604,019	\$58,616,658	\$50,545,792	\$50,709,784
Wages-----	\$14,495,167	\$28,290,779	\$14,475,957	\$26,195,512
Salaries-----	\$2,491,791	\$4,053,178	\$2,472,545	\$3,759,329
Supplies and materials-----	\$10,427,871	\$17,454,545	\$10,420,571	\$14,652,635
Fuel-----	\$2,012,055	\$4,145,087	\$2,004,963	\$4,152,257
Purchased electric energy-----	\$1,058,637	\$1,560,776	\$1,055,278	\$1,245,286
Contract work-----	\$118,498	\$1,152,201	\$118,498	\$746,783
Cost of machinery and equipment installed during year-----	\$5,118,183	\$7,247,585	\$5,117,221	(³)
Horsepower rating of power equipment, total-----	260,525	202,428	279,815	166,091
Per wage earner-----	30.1	12.2	30.0	10.9
Prime movers-----	208,747	154,894	208,155	158,529
Electric motors driven by purchased energy-----	71,778	47,534	71,560	*27,562
Electric energy consumed (thousands of kw.-hrs.), total-----	588,563	584,168	588,397	(³)
Purchased-----	139,283	132,244	139,117	(³)
Generated by reporting companies-----	249,280	451,924	249,280	(³)

¹ Includes 2 mines in the common clay and shale industry. This industry was not included in the censuses of mineral industries for 1929 or 1919.

² Includes 3 limestone quarries, with products valued at \$207,591, operated in conjunction with lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

* Includes 1,015 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARIZONA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Metallic ores					
			Gold		Silver ore	Copper ore	Lead ore	Other ¹
			Lode	Placer				
Number of operating companies ² -----	178	164	90	4	20	12	7	10
Number of mines and quarries-----	179	172	93	4	18	15	6	10
Number of preparation plants-----	59	57	20	-----	5	9	3	8
Value of all products ³ -----	\$54,229,585	\$54,126,556	\$4,880,404	\$144,140	\$865,862	\$46,585,492	\$1,039,440	\$244,304
Number of persons engaged, total-----	10,511	10,432	1,550	30	330	7,737	434	128
Wage earners (average for the year)-----	9,400	9,335	1,354	28	301	6,953	411	101
Number receiving pay during pay-roll period ending nearest the 15th of:								
January-----	9,051	9,016	1,347	28	242	6,714	348	155
February-----	9,135	9,085	1,361	26	313	6,666	405	96
March-----	9,007	8,950	1,398	26	310	6,524	422	61
April-----	8,875	8,819	1,398	30	315	6,478	382	26
May-----	8,958	8,902	1,447	30	313	6,460	412	47
June-----	8,971	8,915	1,433	30	322	6,519	388	53
July-----	8,716	8,646	1,404	30	307	6,257	407	61
August-----	9,386	9,308	1,366	30	327	6,668	433	78
September-----	9,980	9,922	1,366	30	320	7,438	434	137
October-----	10,178	10,105	1,301	30	312	7,723	405	152
November-----	10,278	10,191	1,200	26	294	7,870	455	180
December-----	10,267	10,167	1,185	26	240	7,696	443	172
Salaried employees-----	989	981	124	2	15	784	20	16
Proprietors and firm members-----	122	116	72	-----	14	-----	3	9
Performing manual labor-----	91	86	61	-----	12	-----	3	5
Principal expenses designated below, total-----	\$30,735,747	\$30,604,019	\$3,654,165	\$77,812	\$585,395	\$24,787,362	\$925,685	\$245,890
Wages-----	\$14,560,896	\$14,495,167	\$1,952,349	\$44,185	\$334,830	\$11,221,778	\$911,554	\$140,291
Salaries-----	\$2,504,551	\$2,491,791	\$285,123	\$4,800	\$28,044	\$2,039,813	\$48,895	\$11,963
Supplies and materials-----	\$10,466,679	\$10,427,671	\$968,892	\$17,254	\$145,842	\$8,981,036	\$217,627	\$39,845
Fuel-----	\$2,024,313	\$2,012,055	\$122,755	\$6,103	\$24,265	\$1,759,654	\$46,459	\$9,487
Purchased electric energy-----	\$1,059,450	\$1,058,637	\$20,684	\$5,442	\$28,059	\$725,220	\$1,350	\$12,504
Contract work-----	\$129,858	\$118,498	\$46,382	-----	\$3,355	\$31,861	-----	-----
Cost of buildings, machinery, and equipment erected or installed during year-----	\$3,978,378	\$3,907,136	\$183,979	-----	\$18,960	\$3,480,266	\$201,500	\$5,455
Buildings-----	\$909,407	\$788,953	\$31,786	-----	\$6,890	\$846,578	\$103,489	-----
Machinery and equipment, total-----	\$3,168,971	\$3,118,183	\$152,193	-----	\$12,070	\$2,835,688	\$98,011	\$5,455
Purchased in new condition-----	\$1,706,611	\$1,670,735	\$126,076	-----	\$6,021	\$1,470,186	\$54,805	\$1,805
Purchased in used condition-----	\$1,462,360	\$1,447,450	\$26,117	-----	\$6,049	\$1,365,502	\$43,206	\$3,650
Number of man-hours worked by wage earners-----	22,059,474	21,943,627	3,236,177	71,700	737,791	16,263,344	1,027,830	247,120
Average hourly earning of wage earners-----	\$0.68	\$0.66	\$0.50	\$0.62	\$0.45	\$0.59	\$0.59	\$0.57
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	282,154	280,525	18,250	679	2,663	249,946	2,556	2,837
Per wage earner-----	30.0	30.1	13.5	24.2	8.8	35.9	6.2	28.1
Prime movers-----	210,301	208,747	7,368	519	1,835	191,750	2,521	1,757
Electric motors driven by purchased energy-----	71,853	71,778	10,882	160	828	58,196	35	1,080
Horsepower rating of electric motors driven by energy generated by reporting companies-----	125,391	125,171	2,495	-----	304	119,964	1,350	848
Fuels consumed:								
Anthracite (tons of 2,000 pounds)-----	4,132	4,132	84	-----	-----	20	-----	-----
Bituminous coal (tons of 2,000 pounds)-----	809	809	421	-----	-----	367	-----	1
Fuel oils (barrels of 42 gallons)-----	558,848	558,848	32,657	1,393	5,249	500,309	15,626	1,758
Gasoline and kerosene (gallons)-----	1,282,684	1,284,077	191,105	11,500	47,234	885,640	6,067	11,975
Natural gas (thousands of cubic feet)-----	3,878,827	3,878,827	-----	-----	-----	3,878,827	-----	-----
Electric energy consumed (thousands of kw.-hrs.), total-----	388,604	388,563	37,583	321	1,711	344,332	2,883	1,525
Purchased-----	139,302	139,285	31,208	321	1,711	104,635	43	994
Generated by reporting companies-----	249,302	249,280	6,175	-----	-----	239,697	2,840	541

¹ Represents 1 mine and 1 mill in the zinc-ore industry, 1 mine in the mercury industry in connection with which furnaces or retorts were operated, 1 mine and 1 mill in the molybdenum-ore industry, 6 mines and 4 mills in the tungsten-ore industry, and 1 mine and 1 mill in the vanadium and uranium ore industry.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contract-service operators were not asked to report expenditures for contract work.

⁵ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARIZONA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract-service operations ⁶	Nonproducing operations ⁷
	Crushed and broken limestone	Rough-dimension sandstone and marble ⁸	Clay and shale ⁹	Common sand and gravel	Asbestos	All other ¹⁰		
Number of operating companies ²	4	5	5	5	6	6	7	7
Number of mines and quarries	4	5	4	5	6	6		7
Number of preparation plants	2			5	5	2		2
Value of all products ³	\$225,207	\$16,594	\$65,709	\$81,809	\$62,570	\$101,025	\$106,029	
Number of persons engaged, total	59	13	50	20	49	54	29	50
Wage earners (average for the year)	52	11	24	15	42	45	24	41
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	51	10	23	15	36	49	21	14
February	50	13	25	15	48	47	21	29
March	52	14	25	15	39	44	19	38
April	50	13	27	15	38	47	24	32
May	51	13	25	15	47	42	24	32
June	52	9	25	15	45	24	24	32
July	53	9	21	15	48	34	21	49
August	53	9	21	15	46	44	25	53
September	54	9	22	15	31	48	23	55
October	54	9	25	15	55	44	29	44
November	54	11	24	15	35	47	30	57
December	52	10	26	15	58	46	29	71
Salaried employees	2	1	1	5	5	6		8
Proprietors and firm members	5	1	5		2	5	5	1
Performing manual labor	1					4	4	1
Principal expenses designated below, total	\$146,475	\$9,692	\$54,167	\$58,227	\$48,814	\$74,537	* \$52,777	\$78,951
Wages	\$88,682	\$8,091	\$22,890	\$21,250	\$28,376	\$40,115	\$25,041	\$40,688
Salaries	\$2,559	\$585	\$1,200	\$18,246	\$7,973	\$11,792		\$12,780
Supplies and materials	\$23,231	\$688	\$4,786	\$7,500	\$7,121	\$18,419	\$18,522	\$10,286
Fuel	\$49,760	\$350	\$1,591	\$7,092	\$3,998	\$1,561	\$8,214	\$3,044
Purchased electric energy	\$2,441			\$3,559	\$346	\$2,232		\$813
Contract work			\$3,700			\$200	(n)	\$11,560
Cost of buildings, machinery, and equipment erected or installed during year	\$10,500			\$962	\$2,276	\$3,238		\$71,242
Buildings						\$210		\$20,454
Machinery and equipment, total	\$10,500			\$962	\$2,276	\$3,028		\$50,788
Purchased in new condition	\$10,500				\$340	\$1,000		\$35,878
Purchased in used condition				\$962	\$1,936	\$2,028		\$14,910
Number of man-hours worked by wage earners	129,792	20,980	36,232	33,984	69,108	69,569	47,151	68,896
Average hourly earning of wage earners	\$0.55	\$0.59	\$0.65	\$0.62	\$0.43	\$0.58	\$0.53	\$0.59
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,297	62	204	710	855	466	1,009	620
Per wage earner	24.9	5.6	8.5	47.3	19.8	11.3	42.0	15.1
Prime movers	1,187	62	204	592	762	210	1,009	545
Electric motors driven by purchased energy	130			118	71	278		75
Horsepower rating of electric motors driven by energy generated by reporting companies	85				125			220
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	4,028						(11)	
Bituminous coal (tons of 2,000 pounds)							(11)	
Fuel oils (barrels of 42 gallons)				1,536	148	74	(11)	
Gasoline and kerosene (gallons)	50,251	3,000	10,211	20,200	18,000	8,894	(11)	18,607
Natural gas (thousands of cubic feet)							(11)	
Electric energy consumed (thousands of kw.-hrs.), total	144			166	15	83	(11)	41
Purchased	126			166	6	83		19
Generated by reporting companies	18				9		(11)	22

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contract-service operators were not asked to report expenditures for contract work.

⁵ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁷ Represents 3 lode-gold mines, 1 mine and 1 mill in the lead-ore industry, 2 mines and 1 mill in the molybdenum-ore industry, and 1 major nonferrous-ore mine not classified by industry.

⁸ Represents 2 rough-dimension sandstone quarries and 1 rough-dimension marble quarry.

⁹ Represents 2 common clay and shale mines and 2 bentonite mines.

¹⁰ Represents 2 bituminous-coal mines, 2 quarries and 2 crushing plants in the crushed and broken miscellaneous stone industry, 1 feldspar mine, and 1 fluor spar mine.

¹¹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARIZONA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Cochise	Gila	Greenlee	Maricopa	Mohave	Pima	Pinal	Santa Cruz	Yavapai	Yuma	All other ¹
Number of operating companies ²	164	12	17	3	13	43	7	14	6	41	7	5
Number of mines and quarries	172	12	17	3	12	47	7	14	6	42	7	5
Number of preparation plants	57	3	9	2	6	10	4	5	2	13	1	2
Value of all products	\$54,126,556	\$12,068,122	\$9,565,091	\$3,076,318	\$180,165	\$2,510,415	\$9,774,324	\$8,251,420	\$1,032,661	\$7,458,175	\$89,798	\$100,049
Number of persons engaged, total	10,432	1,797	1,926	1,208	115	800	1,218	1,730	425	1,106	52	55
Wage earners (average for the year)	9,335	1,582	1,738	1,087	101	699	1,086	1,559	404	995	37	47
Salaried employees	961	206	178	120	14	70	123	154	18	90	6	2
Proprietors and firm members	116	9	10	1	—	31	9	17	3	21	9	6
Performing manual labor	88	4	8	—	—	26	5	15	2	17	6	4
Principal expenses designated below, total	\$30,604,019	\$4,759,479	\$6,764,112	\$3,842,903	\$224,521	\$1,902,149	\$4,532,318	\$4,905,112	\$905,911	\$2,843,706	\$81,484	\$62,524
Wages	\$14,495,187	\$2,602,723	\$2,833,455	\$1,530,577	\$121,485	\$1,061,262	\$1,825,965	\$2,534,646	\$602,191	\$1,486,167	\$50,488	\$44,210
Salaries	\$2,481,791	\$506,603	\$525,964	\$259,265	\$30,549	\$157,710	\$271,585	\$479,867	\$47,095	\$223,425	\$7,550	\$2,400
Supplies and materials	\$10,427,871	\$1,204,839	\$2,581,412	\$1,802,551	\$37,121	\$453,949	\$1,914,461	\$1,365,954	\$210,700	\$829,970	\$17,184	\$9,760
Fuel	\$2,012,055	\$101,153	\$777,271	\$266,520	\$22,917	\$57,998	\$518,569	\$157,696	\$45,925	\$56,360	\$5,632	\$1,614
Purchased electric energy	\$1,058,637	\$280,156	\$44,210	\$3,990	\$5,359	\$147,150	\$1,792	\$348,764	—	\$226,796	—	\$440
Contract work	\$118,498	\$44,005	\$1,800	—	\$7,090	\$24,100	—	\$18,185	—	\$18,988	\$430	\$3,900
Cost of buildings, machinery, and equipment erected or installed during year	\$3,907,136	\$127,613	\$235,908	\$2,594,228	\$104,980	\$28,638	\$306,066	\$203,110	\$132,339	\$97,300	\$8,650	\$20,126
Buildings	\$788,953	\$14,950	\$9,054	\$811,080	\$9,016	\$9,621	\$9,575	\$1,021	\$91,709	\$23,163	\$554	\$12,210
Machinery and equipment	\$3,118,183	\$112,663	\$24,854	\$1,983,148	\$95,964	\$19,017	\$299,491	\$202,089	\$90,630	\$74,137	\$8,096	\$7,916
Horsepower rating of prime movers and electric motors driven by purchased energy, total	280,525	47,736	76,249	12,510	2,324	11,000	60,540	43,271	2,255	21,927	499	414
Prime movers	208,747	23,390	78,178	12,190	1,664	5,160	60,272	21,134	2,255	3,801	499	404
Electric motors driven by purchased energy	71,778	24,346	71	120	660	5,840	268	22,137	—	18,326	—	10
Horsepower rating of electric motors driven by energy generated by reporting companies	125,171	5,900	56,165	6,000	504	1,976	31,045	20,645	1,250	1,586	—	100
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	4,132	20	4,028	—	—	—	—	84	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	809	—	29	251	—	—	1	239	—	280	29	—
Fuel oils (barrels of 42 gallons)	558,848	5,454	331,085	91,920	4,482	13,747	61,204	20,546	15,459	13,746	985	241
Gasoline and kerosene (gallons)	1,264,077	42,997	79,046	646,833	40,532	106,337	170,783	40,364	5,453	106,723	17,905	7,304
Natural gas (thousands of cubic feet)	3,878,627	454,953	944,668	—	—	—	1,994,339	464,667	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	388,565	65,152	110,934	6,875	467	15,267	99,225	55,127	2,827	32,676	—	33
Purchased	139,285	51,602	6,472	207	252	11,483	63	39,700	—	29,464	—	20
Generated by reporting companies	249,280	13,550	104,462	6,668	215	3,784	99,162	15,427	2,827	3,192	—	13

¹Apache, Coconino, Graham, and Navajo.²Companies with operations in more than 1 county are counted only once in the totals.

ARKANSAS

Arkansas ranked twenty-fourth among the States in both value of products and number of wage earners employed in mineral industries in 1939.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 84 percent of that in 1929, and the number of wage earners 79 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the value of products for 1939 was about three times that in 1919, and the number of wage earners about one-half greater. Total horsepower rating of power equipment at mineral operations in 1939 was one-third greater than that in 1929, and more than five times greater than in 1919.

The crude-petroleum and natural-gas industry accounted for 87 percent of the value of products of mineral industries in

the State in 1939, and for 30 percent of the wage earners employed. (See table 2.) The bituminous-coal industry accounted for 14 percent of the total value of products, and 45 percent of the wage earners. Bauxite mines in Pulaski and Saline Counties produced 97 percent of the total quantity of crude bauxite reported in the industry for all States. (See report for this industry.) The bauxite industry accounted for 10 percent of the total value of products of the State, and 12 percent of the wage earners.

Other mineral industries in the State were natural gasoline, manganese ore, mercury, titanium ore, limestone, slate, marble, miscellaneous stone, sand and gravel, common clay and shale, natural abrasives, and tripoli. Mineral operations (other than oil and gas wells) were located in 34 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN ARKANSAS: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929		1929 AND 1919	
		(Excluding the common clay and shale, crude-petroleum and natural-gas, and the natural-gasoline industries)		(Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1929 ¹	1919
Number of mines and quarries-----	140	150	137	115	128
Number of oil and gas wells producing at end of year-----	2,987			2,987	124
Number of natural-gasoline plants-----	9			9	
Value of all products-----	\$25,545,153	\$7,305,745	\$11,587,754	\$24,649,983	\$8,258,751
Number of persons engaged, total-----	6,456	4,532	5,453	5,065	4,075
Wage earners (average for the year)-----	5,821	5,980	5,030	5,497	5,830
Salaried employees-----	480	289	351	442	534
Proprietors and firm members-----	155	84	72	148	109
Performing manual labor-----	61	55	(²)	61	86
Principal expenses designated below, total-----	\$15,945,179	\$5,195,785	\$7,537,064	\$15,478,970	\$8,991,559
Wages-----	\$5,905,253	\$3,080,984	\$4,217,509	\$5,708,254	\$4,573,291
Salaries-----	\$1,032,240	\$548,121	\$609,490	\$643,945	\$601,827
Supplies and materials-----	\$2,785,168	\$969,073	\$1,089,489	\$2,682,779	\$1,235,728
Fuel-----	\$871,589	\$278,842	\$276,480	\$818,181	\$530,146
Purchased electric energy-----	\$374,281	\$292,013	\$357,696	\$353,811	\$111,115
Contract work-----	\$4,978,888	\$26,872	\$106,600	\$4,972,102	\$139,434
Cost of machinery and equipment installed during year-----	\$4,137,852	\$348,747	\$618,958	\$4,085,004	(²)
Horsepower rating of power equipment, total-----	122,902	50,186	57,624	115,542	21,365
Per wage earner-----	21.1	12.6	7.5	21.0	5.9
Prime movers-----	89,589	19,871	14,599	84,321	15,552
Electric motors driven by purchased energy-----	55,553	50,515	25,225	51,221	5,613
Electric energy consumed (thousands of kw.-hrs.), total-----	25,858	17,151	15,105	24,675	(²)
Purchased-----	25,521	16,968	15,105	24,365	(²)
Generated by reporting companies-----	337	183		308	(²)

¹ Includes 2 limestone quarries operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

² Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARKANSAS, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Fuels			Metallic ores		
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Bauxite	Mercury	Manganese ore and titanium ore ¹
Number of operating companies ²	286	281	129	7	78	9	8	4
Number of mines and quarries	142	140			78	8	7	5
Number of oil and gas wells producing on December 31, 1939	2,987	2,987	2,987					
Number of preparation plants	52	52		9	1	9	4	5
Value of all products ³	\$31,347,556	\$25,345,155	\$17,020,274	\$959,575	\$6,555,657	\$2,441,657	\$41,666	\$159,111
Number of persons engaged, total	7,648	6,456	1,989	105	2,801	781	46	158
Wage earners (average for the year)	6,926	5,821	1,722	89	2,614	695	58	129
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	8,272	7,268	1,766	87	4,158	691	50	127
February	7,404	6,506	1,717	84	3,404	711	19	156
March	6,835	5,745	1,718	92	2,606	756	5	128
April	4,753	3,546	1,742	93	561	715	5	128
May	4,852	3,652	1,656	84	505	687	54	135
June	4,869	3,581	1,722	92	528	675	56	135
July	5,852	4,805	1,759	92	1,546	650	59	152
August	7,871	6,877	1,740	90	3,460	635	45	106
September	8,059	6,984	1,691	90	3,771	699	27	114
October	8,212	7,187	1,640	87	4,019	688	44	121
November	7,920	6,852	1,659	90	5,635	710	74	156
December	8,251	7,250	1,656	86	5,997	727	97	162
Salaried employees	551	480	178	14	145	86	5	8
Proprietors and firm members	171	155	89		42		5	1
Performing manual labor	61	61	26		30		2	
Principal expenses designated below, total	\$17,851,809	\$15,945,179	\$10,555,585	\$52,290	\$3,126,525	\$1,271,206	\$45,124	\$110,595
Wages	\$7,445,968	\$5,905,255	\$2,661,642	\$138,166	\$2,116,629	\$581,575	\$26,889	\$78,298
Salaries	\$1,287,751	\$1,052,240	\$458,901	\$25,218	\$248,540	\$180,950	\$4,271	\$15,472
Supplies and materials	\$2,791,928	\$2,785,168	\$1,729,530	\$78,362	\$541,854	\$267,428	\$9,701	\$15,064
Fuel	\$874,052	\$871,569	\$476,918	\$109,791	\$24,499	\$180,585	\$4,265	\$5,741
Purchased electric energy	\$374,281	\$374,281	\$81,245	\$450	\$191,605	\$57,614		
Contract work	\$5,157,869	\$4,976,668	\$4,945,147	\$265	\$3,596	\$25,276		
Cost of buildings, machinery, and equipment erected or installed during year	\$4,509,326	\$4,286,651	\$3,659,176	\$245,365	\$72,697	\$200,462	\$15,528	\$1,499
Buildings	\$148,849	\$148,799	\$95,856		\$15,489	\$20,507	\$2,712	
Machinery and equipment, total	\$4,160,477	\$4,137,852	\$3,563,320	\$245,365	\$59,208	\$179,955	\$12,816	\$1,499
Purchased in new condition	\$3,779,597	\$3,756,922	\$3,255,218	\$255,685	\$29,007	\$172,659	\$5,110	\$624
Purchased in used condition	\$381,080	\$380,930	\$310,102	\$11,500	\$30,201	\$7,496	\$8,506	\$875
Number of man-hours worked by wage earners	10,757,558	8,954,595	3,254,752	184,489	5,099,495	1,151,275	82,766	248,500
Average hourly earning of wage earners	\$0.69	\$0.66	\$0.82	\$0.75	\$0.88	\$0.50	\$0.52	\$0.51
Horsepower rating of prime movers and electric motors driven by purchased energy, total	141,779	122,902	65,068	6,796	25,214	12,948	879	595
Per wage earner	20.5	21.1	57.8	76.4	9.6	18.6	25.1	4.5
Prime movers	108,406	89,589	62,155	6,796	7,378	4,845	879	595
Electric motors driven by purchased energy	53,373	53,355	2,915		17,836	8,103		
Horsepower rating of electric motors driven by energy generated by reporting companies	889	874	238	8			70	40
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	248	246						
Bituminous coal (tons of 2,000 pounds)	14,506	14,506			7,548	1,987		
Fuel oils (barrels of 42 gallons)	26,797	26,797	7,614		1,000	11,457		50
Gasoline and kerosene (gallons)	422,010	419,954	89,454		27,572	55,449	13,478	15,555
Natural gas (thousands of cubic feet)	10,085,219	10,085,219	7,682,774	1,659,205	956	716,565		10,645
Electric energy consumed (thousands of kw.-hrs.), total	25,858	25,858	8,530	142	9,351	4,054	25	4
Purchased	25,521	25,521	8,507	11	9,351	4,052		
Generated by reporting companies	337	337	25	131		2	25	4

¹ Represents 2 mines and 2 mills in the manganese-ore industry and 1 mine and 1 mill in the titanium-ore industry.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contractors performing oil- and gas-field services were not asked to report; as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; nonproducing operations and contractors performing general services for mineral industries reported no expenditures for purchased electric energy and the latter were not asked to report expenditures for contract work.

⁵ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARKANSAS, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued					Contract-service and nonproducing operations ²
	Stone		Sand and gravel ⁷	Common clay and shale	Natural abrasives and tripoli ⁸	
	Crushed and broken limestone, slate, and miscellaneous ⁴	Rough-dimension marble				
Number of operating companies ³	8	4	15	5	3	29
Number of mines and quarries	11	4	15	10	4	2
Number of oil and gas wells producing on December 31, 1939						
Number of preparation plants	9		15		2	
Value of all products ³	\$325,685	\$28,942	\$615,611	\$79,559	\$37,488	\$8,002,408
Number of persons engaged, total	164	57	359	32	26	1,192
Wage earners (average for the year)	155	54	294	30	25	1,105
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	108	25	248	26	22	1,004
February	118	15	255	29	22	896
March	108	30	278	29	22	1,090
April	156	42	272	29	25	1,187
May	147	45	307	29	25	1,200
June	160	48	351	29	25	1,288
July	169	26	356	31	25	1,247
August	205	40	286	34	25	1,194
September	200	40	294	35	25	1,075
October	155	36	342	35	22	1,025
November	175	24	299	28	22	1,066
December	160	31	286	28	22	961
Salaried employees	8		38			71
Proprietors and firm members	5	3	7	2	3	16
Performing manual labor	1				2	
Principal expenses designated below, total	\$184,984	\$19,515	\$422,698	\$41,521	\$15,350	* \$1,988,650
Wages	\$102,359	\$15,198	\$172,618	\$24,561	\$9,818	\$1,540,755
Salaries	\$12,511		\$68,597			\$255,491
Supplies and materials	\$56,072	\$168	\$4,206	\$6,185	\$4,564	\$3,780
Fuel	\$14,146	\$970	\$47,570	\$9,018	\$1,468	* \$2,465
Purchased electric energy	\$19,816	\$2,981	\$19,897	\$575		(*)
Contract work			\$200	\$4,586		* \$161,181
Cost of buildings, machinery, and equipment erected or installed during year	\$57,219		\$51,985	\$400	\$1,500	* \$22,675
Buildings	\$8,898		\$7,537			* \$50
Machinery and equipment, total	\$48,321		\$44,448	\$400	\$1,500	* \$22,625
Purchased in new condition	\$47,571		\$32,948	\$400	\$1,500	* \$22,475
Purchased in used condition	\$750		\$11,500			* \$150
Number of man-hours worked by wage earners	254,390	45,560	536,829	62,799	34,160	1,802,765
Average hourly earning of wage earners	\$0.40	\$0.54	\$0.32	\$0.59	\$0.27	\$0.85
Horsepower rating of prime movers and electric motors driven by purchased energy, total	3,402	455	6,508	852	185	18,877
Per wage earner	22.2	15.4	22.1	28.4	8.0	17.1
Prime movers	1,258	250	4,501	747	185	18,857
Electric motors driven by purchased energy	2,144	225	2,007	105		40
Horsepower rating of electric motors driven by energy generated by reporting companies			118		400	15
Fuels consumed:						
Anthracite (tons of 2,000 pounds)			246			(*)
Bituminous coal (tons of 2,000 pounds)	625		5,647	319	180	(*)
Fuel oils (barrels of 42 gallons)	286	75	4,787	720		(*)
Gasoline and kerosene (gallons)	84,491	4,579	154,405	18,465	500	* 2,056
Natural gas (thousands of cubic feet)	700		5,800	6,128	4,850	(*)
Electric energy consumed (thousands of kw.-hrs), total	2,295	149	1,150	55	125	(*)
Purchased	2,295	149	1,121	55		(*)
Generated by reporting companies			29		125	(*)

² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; nonproducing operations and contractors performing general services for mineral industries reported no expenditures for purchased electric energy and the latter were not asked to report expenditures for contract work.⁵ Excludes statistics for contract-service operations.⁶ Represents 9 quarries and 7 crushing plants in the crushed and broken limestone industry, 1 quarry and 1 crushing plant in the crushed and broken slate industry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.⁷ Represents 15 mines and 15 preparation plants in the common sand and gravel industry and 2 mines and 2 preparation plants in the glass-sand industry.⁸ Represents 3 mines and 1 preparation plant in the natural-abrasives industry and 1 mine and 1 mill in the tripoli industry.⁹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations represent operations of 7 companies in the crude-petroleum and natural-gas industry, 1 bauxite mine, and 1 mercury mine.¹⁰ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ARKANSAS, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Franklin	Hot Spring	Independence	Johnson	Logan	Pike
Number of operating companies ¹	138	8	4	6	18	18	8
Number of mines and quarries	140	8	5	5	17	19	7
Number of preparation plants	52		2	2	1		4
Value of all products	\$2,524,879	\$386,624	\$125,598	\$169,106	\$558,094	\$1,819,514	\$41,666
Number of persons engaged, total	4,467	295	67	182	572	1,057	45
Wage earners (average for the year)	4,069	275	65	175	557	1,006	37
Salaried employees	502	17	4	7	22	46	5
Proprietors and firm members	66	3		2	13	5	5
Performing manual labor	35	1			8	4	2
Principal expenses designated below, total	\$5,589,596	\$356,991	\$84,982	\$118,478	\$450,655	\$1,175,037	\$45,124
Wages	\$5,245,591	\$258,251	\$40,132	\$66,765	\$294,710	\$770,284	\$28,889
Salaries	\$575,559	\$16,561	\$8,585	\$11,747	\$32,268	\$107,475	\$4,271
Supplies and materials	\$1,055,658	\$40,447	\$21,704	\$8,184	\$76,685	\$226,287	\$9,701
Fuel	\$594,651	\$4,521	\$3,427	\$3,625	\$6,060	\$302	\$4,265
Purchased electric energy	\$285,066	\$16,899	\$1,949	\$4,161	\$20,952	\$35,179	
Contract work	\$51,541	\$52	\$4,568			\$3,052	
Cost of buildings, machinery, and equipment erected or installed during year	\$647,475	\$6,552	\$324	\$875	\$1,857	\$17,247	\$16,528
Buildings	\$52,945	\$1,610			\$289	\$6,574	\$2,712
Machinery and equipment	\$594,532	\$6,942	\$324	\$875	\$1,568	\$7,673	\$13,816
Horsepower rating of prime movers and electric motors driven by purchased energy, total	57,824	2,976	2,046	825	4,825	7,686	879
Prime movers	27,414	1,752	1,559	445	2,051	550	879
Electric motors driven by purchased energy	50,420	1,244	687	380	2,872	7,136	
Horsepower rating of electric motors driven by energy generated by reporting companies	656		40				70
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	246		246				
Bituminous coal (tons of 2,000 pounds)	14,806	1,461	519	625	2,240	525	
Fuel oils (barrels of 42 gallons)	19,185	110	702	50	126	14	828
Gasoline and kerosene (gallons)	550,490	2,506	16,297	5,240	3,120	390	13,478
Natural gas (thousands of cubic feet)	2,402,445	720	10,645			256	
Electric energy consumed (thousands of kw.-hrs.), total	17,528	664	75	207	1,374	3,298	25
Purchased	17,014	664	71	207	1,374	3,298	
Generated by reporting companies	514		4				25

ITEM	Pope	Pulaski	Saline	Sebastian	Union	All other ²
Number of operating companies ¹	5	8	5	32	8	27
Number of mines and quarries	5	7	4	32		55
Number of preparation plants	1	6	5		7	24
Value of all products	\$196,951	\$954,971	\$1,709,167	\$1,202,911	\$369,575	\$1,295,022
Number of persons engaged, total	139	257	616	912	60	487
Wage earners (average for the year)	134	219	544	837	51	425
Salaried employees	2	18	72	55	9	47
Proprietors and firm members	5			20		15
Performing manual labor	1			16		5
Principal expenses designated below, total	\$166,880	\$406,576	\$947,993	\$984,445	\$257,246	\$637,595
Wages	\$118,299	\$179,156	\$453,233	\$651,269	\$39,977	\$295,448
Salaries	\$5,700	\$30,972	\$155,668	\$65,515	\$18,260	\$98,521
Supplies and materials	\$17,317	\$35,650	\$194,656	\$170,987	\$59,455	\$142,755
Fuel	\$2,508	\$2,465	\$105,058	\$12,555	\$90,291	\$76,550
Purchased electric energy	\$23,066	\$30,135	\$40,142	\$64,405		\$26,159
Contract work			\$25,276	\$12	\$235	\$200
Cost of buildings, machinery, and equipment erected or installed during year	\$5,000	\$258,965	\$1,866	\$36,053	\$15,703	\$286,445
Buildings		\$27,173		\$2,006		\$9,569
Machinery and equipment	\$5,000	\$231,792	\$1,866	\$34,047	\$15,703	\$276,876
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,797	4,655	10,451	7,952	3,746	9,698
Prime movers	280	1,478	4,101	5,150	3,746	7,843
Electric motors driven by purchased energy	1,517	3,177	6,350	4,802		2,055
Horsepower rating of electric motors driven by energy generated by reporting companies					8	518
Fuels consumed:						
Anthracite (tons of 2,000 pounds)						
Bituminous coal (tons of 2,000 pounds)	6	522	1,881	2,710		4,019
Fuel oils (barrels of 42 gallons)	279	10,869	748	740		4,897
Gasoline and kerosene (gallons)	11,680	38,747	18,445	22,712		197,885
Natural gas (thousands of cubic feet)		253,624	462,739	6,128	809,205	659,150
Electric energy consumed (thousands of kw.-hrs.), total	1,632	3,060	2,751	2,322	131	1,771
Purchased	1,632	3,078	2,751	2,322		1,617
Generated by reporting companies		2			131	154

¹ Companies with operations in more than 1 county are counted only once in the totals.² Baxter, Benton, Boone, Chicot, Clark, Craighead, Crawford, Cross, Garland, Hempstead, Howard, Izard, Jackson, Jefferson, Lawrence, Little River, Miller, Ouachita, Polk, St. Francis, Scott, Sevier, and Washington.

CALIFORNIA

California ranked third among the States in value of products of mineral industries in 1939, and sixth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 201 percent of that in 1929, and the number of wage earners 188 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the value of products for 1939 was 218 percent of that in 1919, and the number of wage earners 148 percent. Increases between 1929 and 1939 largely reflected increases in the lode- and placer-gold industries; and those between 1919 and 1939, increases in the crude-petroleum and natural-gas and natural-gasoline industries. Total horsepower rating of power equipment at mineral operations in 1939 was 231 percent of that in 1929, and 378 percent of that in 1919.

The crude-petroleum and natural-gas industry ranked first among mineral industries in the State in 1939, accounting for 69 percent of the total value of products and 50 percent of the wage earners. (See table 2.) The natural-gasoline industry accounted for 10 percent of the value of products, the lode-gold industry for 7 percent, and the placer-gold industry for 6 percent. Lode- and placer-gold operations combined employed

27 percent of the total number of wage earners reported. The State accounted for 18 percent of the value of products of the crude-petroleum and natural-gas industry in the United States, 38 percent of the value of products of the natural-gasoline industry, 74 percent of the value of products of the placer-gold industry, and 42 percent of the value of products of the lode- and placer-gold industries combined. California ranked first among all States in value of products in the natural-gasoline; gold; chromite; mercury; miscellaneous-stone; diatomite; kyanite, andalusite, and dumortierite; natural sodium compounds; and potash industries. It ranked second in the crude-petroleum and natural-gas, tungsten-ore, bentonite, magnesite and brucite, and pyrites industries; and third in the sandstone, common sand and gravel, and talc and soapstone industries. (See reports for these industries.)

Other mineral industries in the State were iron ore, silver ore, copper ore, manganese ore, limestone, granite, basalt, slate, marble, glass sand, foundry sand, kaolin and ball clay, fire clay, common clay and shale, fuller's earth, barite, feldspar, gypsum, mica, native asphalt and bitumens, natural abrasives, peat, rock salt, sulfur, and tripoli. Mineral operations (other than oil and gas wells) were located in 51 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN CALIFORNIA: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, peat, crude-petroleum and natural-gas, and natural-gasoline industries)		1929 AND 1919 (Excluding the common clay and shale, peat, sand and gravel, and natural sodium compounds industries)	
		1929 ¹	1929	1929 ¹ ²	1919
Number of mines and quarries	771	759	441	622	357
Number of oil and gas wells producing at end of year	16,657			16,657	9,197
Number of natural-gasoline plants	96			96	56
Value of all products	\$364,618,652	\$77,747,188	\$58,845,889	\$55,589,501	\$162,894,462
Number of persons engaged, total	57,805	15,695	9,525	55,755	22,201
Wage earners (average for the year)	50,252	13,521	8,048	28,545	19,244
Salaried employees	6,604	1,642	1,118	6,329	2,415
Proprietors and firm members	949	550	157	861	442
Performing manual labor	425	302	(³)	599	172
Principal expenses designated below, total	\$132,197,210	\$44,063,480	\$24,943,747	\$127,184,582	\$77,130,748
Wages	\$51,788,555	\$21,642,279	\$12,270,081	\$49,486,588	\$31,748,170
Salaries	\$17,935,908	\$4,257,214	\$3,008,767	\$17,506,275	\$5,141,550
Supplies and materials	\$28,537,924	\$11,746,176	\$6,312,482	\$27,458,869	\$31,616,625
Fuel	\$7,618,975	\$2,558,755	\$768,862	\$7,170,027	\$4,424,508
Purchased electric energy	\$6,115,829	\$5,528,711	\$2,048,962	\$5,806,239	\$2,622,717
Contract work	\$20,202,225	\$570,547	\$554,595	\$20,155,786	\$1,577,278
Cost of machinery and equipment installed during year	\$37,886,441	\$5,106,950	\$1,787,756	\$37,584,819	(³)
Horsepower rating of power equipment, total	1,257,118	360,009	155,879	1,175,688	513,215
Per wage earner	41.6	26.6	19.4	41.5	16.2
Prime movers	829,547	138,745	26,506	801,599	206,805
Electric motors driven by purchased energy	427,571	221,264	129,575	577,087	106,408
Electric energy consumed (thousands of kw.-hrs.), total	785,475	528,538	187,187	742,468	(³)
Purchased	672,489	425,522	184,572	651,654	(³)
Generated by reporting companies	110,986	103,016	2,595	110,854	(³)

¹ Includes 1 mine and 1 preparation plant in the rock-salt industry and 1 mine and 1 preparation plant in the potash industry. These industries were not included in the census of mineral industries for 1929 and 1919.

² Includes 11 limestone mines and quarries, with products valued at \$1,425,987, operated in conjunction with cement and lime plants. Such mines and quarries were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 45 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL

ITEM	All operations in all industries	PRODUCING OPERATIONS								
		Total	Crude petroleum and natural gas	Natural gasoline	Metallic ores					
					Gold		Silver ore	Mercury	Tungsten ore	Others ¹
					Lode	Placer				
1 Number of operating companies ⁴ —	1,849	1,842	959	37	205	171	6	31	10	6
2 Number of mines and quarries—	780	771	—	—	206	199	6	30	9	5
3 Number of oil and gas wells producing on December 31, 1939—	16,657	16,657	16,657	—	—	—	—	—	—	—
4 Number of preparation plants—	478	474	—	96	119	—	1	30	10	5
5 Value of all products ⁵ —	\$384,068,301	\$364,618,652	\$250,424,351	\$36,152,917	\$26,662,707	\$20,878,305	\$355,231	\$1,068,212	\$1,128,108	\$1,129,210
6 Number of persons engaged, total—	42,527	37,805	19,951	2,028	6,400	2,782	90	398	319	490
7 Wage earners (average for the year)—	54,018	30,252	15,172	1,441	5,819	2,275	74	342	251	449
8 Number receiving pay during pay-roll period ending nearest the 15th of:										
9 January—	52,743	29,248	15,075	1,398	5,704	2,125	68	315	181	372
10 February—	52,961	29,454	15,118	1,402	5,777	2,054	70	336	197	395
11 March—	53,237	29,702	15,087	1,407	5,781	2,173	73	357	198	419
12 April—	53,209	29,627	14,984	1,410	5,858	2,301	65	354	220	445
13 May—	53,657	29,898	14,975	1,400	5,870	2,306	54	320	228	445
14 June—	54,521	30,617	15,326	1,416	5,947	2,378	62	306	228	461
15 July—	54,919	30,886	15,637	1,469	5,857	2,405	58	327	240	455
16 August—	55,102	31,019	15,648	1,469	5,827	2,296	72	354	257	486
17 September—	54,412	30,834	15,272	1,478	5,771	2,255	81	309	277	489
18 October—	54,725	30,768	15,122	1,467	5,844	2,841	99	352	285	484
19 November—	54,711	30,877	15,112	1,469	5,845	2,550	100	405	285	475
20 December—	54,011	30,294	15,006	1,480	5,758	2,519	88	405	216	474
21 Salaried employees—	7,212	5,604	4,575	585	419	331	10	29	82	40
22 Proprietors and firm members—	1,097	949	406	—	162	176	6	25	6	1
23 Performing manual labor—	490	425	117	—	111	103	6	21	4	1
24 Principal expenses designated below, total—	\$141,104,371	\$132,197,210	\$80,029,068	\$7,984,099	\$17,254,526	\$9,395,622	\$191,151	\$798,771	\$276,129	\$1,235,517
25 Wages—	\$58,054,985	\$51,768,353	\$27,298,602	\$2,755,037	\$9,789,696	\$4,042,672	\$104,508	\$465,443	\$399,637	\$59,874
26 Salaries—	\$19,842,725	\$17,935,908	\$12,050,216	\$1,640,080	\$1,187,208	\$849,063	\$9,371	\$70,841	\$146,880	\$24,958
27 Supplies and materials—	\$28,708,940	\$28,587,324	\$15,281,613	\$1,488,008	\$4,545,929	\$2,861,453	\$55,821	\$157,890	\$204,285	\$45,528
28 Fuel—	\$7,678,655	\$7,618,973	\$3,620,345	\$1,457,017	\$251,256	\$455,282	\$4,075	\$77,072	\$28,700	\$9,925
29 Purchased electric energy—	\$8,117,954	\$8,115,829	\$2,455,878	\$127,722	\$1,586,477	\$1,162,855	\$17,570	\$27,400	\$57,177	\$29,493
30 Contract work—	\$20,702,112	\$20,202,223	\$19,324,444	\$508,285	\$95,765	\$46,817	\$68	\$125	\$59,522	\$46,845
31 Cost of buildings, machinery, and equipment erected or installed during year—	\$41,715,555	\$41,504,778	\$35,664,289	\$1,632,722	\$1,004,176	\$5,047,507	\$8,224	\$115,955	\$549,159	\$66,099
32 Buildings—	\$5,656,705	\$5,618,537	\$2,143,785	\$397,309	\$399,397	\$102,875	\$15	\$13,757	\$157,728	\$7,359
33 Machinery and equipment, total—	\$36,058,222	\$35,886,441	\$33,520,504	\$1,245,413	\$604,779	\$2,944,432	\$8,209	\$102,196	\$211,431	\$58,760
34 Purchased in new condition—	\$36,191,957	\$36,078,349	\$30,768,185	\$62,298	\$469,247	\$2,889,908	\$9,065	\$67,087	\$155,968	\$41,890
35 Purchased in used condition—	\$1,866,265	\$1,810,092	\$754,319	\$295,115	\$135,532	\$54,524	\$144	\$5,109	\$55,465	\$16,870
36 Number of man-hours worked by wage earners—	59,596,536	62,654,760	27,922,721	2,752,305	14,353,728	5,872,627	180,396	829,489	540,208	965,468
37 Average hourly earning of wage earners—	\$0.84	\$0.85	\$0.98	\$0.99	\$0.68	\$0.71	\$0.65	\$0.58	\$0.74	\$0.68
38 Horsepower rating of prime movers and electric motors driven by purchased energy, total—	1,586,880	1,257,116	701,462	191,585	102,312	75,890	1,049	4,701	5,996	6,616
39 Per wage earner—	40.8	41.6	46.2	133.0	17.6	33.1	14.2	13.7	26.0	14.7
40 Prime movers—	956,114	829,547	502,784	184,417	22,506	28,355	224	3,486	2,741	1,014
41 Electric motors driven by purchased energy—	430,466	427,571	196,718	7,168	79,806	47,035	825	1,215	3,255	5,802
42 Horsepower rating of electric motors driven by energy generated by reporting companies—	35,223	32,640	2,675	224	2,321	2,027	—	169	370	—
43 Fuels consumed:										
44 Anthracite (tons of 2,000 pounds)—	966	966	2	—	27	888	25	—	—	9
45 Bituminous coal (tons of 2,000 pounds)—	590	586	—	—	125	9	4	—	—	5
46 Fuel oils (barrels of 42 gallons)—	1,938,985	1,921,586	632,946	25,219	39,957	104,474	1,054	27,990	5,618	465
47 Gasoline and kerosene (gallons)—	8,520,775	8,395,550	5,767,462	7,000	823,533	885,350	11,531	175,859	65,440	31,554
48 Natural gas (thousands of cubic feet)—	80,216,132	80,192,769	54,657,390	24,991,947	—	—	—	—	—	—
49 Electric energy consumed (thousands of kw.-hrs.), total—	785,561	785,475	259,256	15,611	178,919	177,284	1,597	2,793	4,564	13,988
50 Purchased—	672,566	672,469	255,454	13,425	174,870	162,199	1,597	2,225	4,290	13,968
51 Generated by reporting companies—	110,995	110,866	5,782	2,186	4,049	15,085	—	568	74	—

¹ 1 quarry and 1 crushing plant in the rough-dimension limestone industry, 1 rough-dimension slate mine, and 2 preparation plants in the fuller's-earth industry are included in "All other" to avoid disclosure of confidential information.

² Represents 1 iron-ore mine, 1 mine and 1 mill in the copper-ore industry, 2 mines and 1 mill in the chromite industry, and 1 mine and 1 mill in the manganese-ore industry.

³ Represents 1 mine and 1 crushing plant in the crushed and broken slate industry, 1 quarry and 1 crushing plant in the crushed and broken marble industry, and 15 quarries and 11 crushing plants in the crushed and broken miscellaneous stone industry.

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

INDUSTRIES IN CALIFORNIA, BY INDUSTRY: 1939

PRODUCING OPERATIONS—Continued															
Stone ¹							Sand and gravel			Clay and shale ¹					Diatomite
Crushed and broken					Rough-dimension		Common sand and gravel	Glass sand	Foundry sand	Kaolin and ball clay	Fire clay	Common clay and shale	Bentonite		
Limestone	Granite	Basalt	Sandstone	Slate, marble, and miscellaneous ³	Granite	Sandstone									
21	7	11	7	18	7	4	75	3	5	16	14	26	6	3	
21	8	11	8	18	7	4	104	3	5	17	21	28	5	3	
17	5	11	7	15	---	1	104	3	3	10	2	1	4	3	
\$2,464,806	\$756,917	\$665,130	\$406,735	\$499,221	\$67,616	\$70,228	\$6,015,557	\$325,510	\$50,868	\$445,267	\$355,712	\$291,765	\$284,271	\$1,841,206	
608	159	184	140	114	28	35	1,502	78	25	114	102	122	58	272	
566	137	144	123	89	14	50	1,056	67	18	101	84	110	51	226	
493	89	121	131	91	21	18	1,045	62	17	108	64	95	34	183	
479	149	121	116	95	14	18	1,034	65	16	141	66	98	53	187	
513	150	152	135	82	13	19	1,055	68	17	80	65	112	54	206	
494	134	152	129	82	15	22	1,065	64	18	97	69	113	54	207	
526	151	154	86	80	15	31	1,079	66	19	89	76	122	55	209	
624	135	159	127	91	13	33	1,068	67	17	94	79	118	55	207	
658	152	139	124	85	11	35	1,047	65	18	75	105	112	52	207	
664	175	137	118	97	14	28	1,064	70	16	76	104	120	52	215	
661	170	152	135	108	22	38	1,033	69	18	110	95	121	53	249	
644	147	153	145	98	12	31	1,047	68	17	125	95	106	55	278	
602	126	150	135	85	12	37	1,040	70	19	115	102	101	60	285	
437	107	155	94	81	12	37	1,057	66	17	101	92	101	37	281	
34	18	15	14	15	1	3	181	10	2	6	12	4	6	46	
3	4	5	3	12	15	2	65	1	5	7	6	6	1	---	
1	2	3	---	7	11	2	18	---	2	1	5	5	---	---	
\$1,579,887	\$361,513	\$354,699	\$300,977	\$228,893	\$21,523	\$41,106	\$2,880,450	\$262,126	\$30,800	\$206,475	\$175,456	\$159,216	\$177,701	\$962,026	
\$843,005	\$195,679	\$188,135	\$168,617	\$114,378	\$16,804	\$27,434	\$1,396,767	\$89,914	\$16,095	\$118,910	\$104,171	\$108,258	\$63,440	\$259,579	
\$93,838	\$46,993	\$30,624	\$32,436	\$35,430	\$68	\$4,500	\$358,107	\$33,858	\$1,145	\$19,557	\$25,230	\$6,448	\$14,662	\$101,240	
\$457,104	\$71,948	\$66,542	\$50,494	\$30,242	\$1,800	\$4,067	\$622,842	\$55,084	\$6,805	\$27,161	\$25,680	\$20,132	\$27,652	\$429,807	
\$39,959	\$30,400	\$22,602	\$26,544	\$28,818	\$657	\$1,714	\$207,426	\$14,358	\$1,710	\$25,577	\$15,168	\$20,216	\$2,662	\$72,777	
\$60,674	\$18,493	\$26,998	\$21,386	\$22,025	\$1,994	\$3,391	\$309,531	\$19,839	\$1,047	\$12,292	\$5,454	\$6,015	\$8,568	\$68,623	
\$85,289	---	---	\$1,500	---	---	---	\$5,977	\$29,313	---	\$5,978	\$1,795	\$1,147	\$519	---	
\$117,549	\$40,057	\$60,663	\$12,954	\$54,579	\$487	\$200	\$495,768	\$5,735	\$1,669	\$26,981	\$6,897	\$11,594	\$1,265	\$61,061	
\$6,004	\$1,400	\$40,465	---	\$9,305	---	---	\$75,138	---	\$713	\$3,057	\$1,597	---	---	\$18,417	
\$111,545	\$38,657	\$50,178	\$12,954	\$45,274	\$487	\$200	\$422,630	\$5,735	\$956	\$23,924	\$5,500	\$11,594	\$1,265	\$42,644	
\$74,960	\$30,224	\$18,927	\$10,836	\$41,458	\$82	---	\$562,417	\$5,299	\$715	\$23,654	\$4,000	\$6,820	\$1,285	\$42,644	
\$56,585	\$8,433	\$31,251	\$2,113	\$3,806	\$405	\$200	\$60,213	\$437	\$241	\$270	\$1,500	\$4,574	---	---	
1,200,272	271,127	315,254	241,847	177,025	27,586	73,294	2,143,675	148,088	25,740	192,734	160,371	220,581	92,055	613,967	
\$0.70	\$0.72	\$0.60	\$0.70	\$0.65	\$0.61	\$0.37	\$0.65	\$0.67	\$0.76	\$0.62	\$0.65	\$0.49	\$0.69	\$0.47	
13,688	6,983	6,130	6,147	5,710	564	1,560	60,574	1,257	367	3,823	2,750	5,655	1,195	5,459	
24.2	51.0	42.6	50.0	64.2	26.0	52.0	57.4	18.8	20.4	37.9	52.7	55.2	23.4	24.1	
4,957	4,085	2,127	2,894	2,539	157	730	22,018	168	500	2,378	2,256	3,527	270	1,077	
8,751	2,948	4,003	3,453	3,151	207	830	38,556	1,089	67	1,445	514	525	925	4,582	
3,930	100	---	---	---	---	---	751	---	---	---	40	---	---	---	
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---	140	---	---	---	3	100	---	---	---	---	---	---	---	---	
29,404	5,892	1,833	6,904	5,470	40	308	30,002	224	---	812	437	1,454	---	1,918	
186,889	172,170	132,782	138,497	176,558	5,123	2,260	1,135,846	11,679	11,400	62,271	88,065	134,459	9,470	47,301	
---	---	---	---	---	---	---	3,663	76,180	---	115,333	1,200	40	4,000	359,952	
9,634	815	1,503	1,086	1,097	65	210	20,017	1,250	44	1,082	180	277	611	9,058	
6,899	809	1,503	1,086	1,097	65	210	19,865	1,250	44	1,082	178	277	611	9,058	
2,735	8	---	---	---	---	---	152	---	---	---	2	---	---	---	

¹ Includes amounts received or due for contract services performed during the year.² Includes statistics for central-office employees in the lead-ore industry and at central offices not classified by industry.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.⁴ Excludes statistics for contract-service operations.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN CALIFORNIA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract-service operations ⁹	Nonproducing operations ¹⁰
	Oypsum	Natural abrasives	Natural sodium compounds	Peat	Talc and soapstone	All other ¹¹		
Number of operating companies ⁴	5	9	4	4	7	19	168	57
Number of mines and quarries	8	9	5	4	10	19	—	9
Number of oil and gas wells producing on December 31, 1939	—	—	—	—	—	—	—	—
Number of preparation plants	1	7	4	3	5	11	—	4
Value of all products ⁵	\$58,624	\$125,792	\$2,527,220	\$22,433	\$514,286	\$8,800,849	\$19,489,849	—
Number of persons engaged, total	115	43	530	13	150	1,147	4,550	172
Wage earners (average for the year)	101	35	448	8	98	943	3,852	114
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	100	26	405	6	93	816	3,378	117
February	104	25	419	6	86	795	3,444	83
March	113	28	427	7	93	857	3,444	81
April	114	32	434	8	82	878	3,499	93
May	100	40	440	7	91	865	3,667	92
June	97	45	465	7	91	891	3,818	96
July	96	57	451	8	106	899	3,855	90
August	96	40	472	8	96	950	3,942	141
September	108	59	465	8	96	954	3,924	154
October	96	43	455	8	116	1,086	3,797	142
November	96	40	473	8	114	1,190	3,691	143
December	98	54	473	8	106	1,163	3,663	154
Salaried employees	9	2	78	—	23	199	575	35
Proprietors and firm members	3	6	4	5	9	5	125	23
Performing manual labor	—	2	—	3	2	2	61	4
Principal expenses designated below, total	\$255,816	\$84,158	\$1,668,719	\$11,517	\$322,872	\$4,258,624	7 \$8,054,135	\$835,028
Wages	\$108,151	\$48,661	\$972,756	\$5,197	\$126,791	\$1,577,968	\$8,080,099	\$186,533
Salaries	\$24,095	\$1,300	\$248,297	—	\$51,855	\$351,275	\$1,854,871	\$64,146
Supplies and materials	\$98,646	\$21,095	\$372,197	\$1,975	\$124,308	\$1,014,388	7 \$92,045	\$76,971
Fuel	\$10,572	\$10,536	\$232,614	\$2,642	\$7,712	\$1,012,671	7 \$27,227	\$35,455
Purchased electric energy	\$3,652	\$2,269	\$172,855	\$505	\$12,026	\$21,824	\$41	\$2,064
Contract work	—	\$298	—	—	—	\$500	(12)	\$499,889
Cost of buildings, machinery, and equipment erected or installed during year	\$35,542	\$6,811	\$175,064	\$2,200	\$6,110	\$468,082	7 \$1,426	\$207,149
Buildings	\$450	\$3,600	\$116,158	—	\$3,512	\$148,496	(13)	\$38,568
Machinery and equipment, total	\$32,692	\$3,211	\$58,906	\$2,200	\$2,598	\$319,586	(13)	\$168,781
Purchased in new condition	\$27,646	\$1,530	\$58,906	—	\$1,520	\$312,818	(13)	\$115,806
Purchased in used condition	\$5,046	\$1,681	—	\$2,200	\$1,078	\$4,768	(13)	\$53,175
Number of man-hours worked by wage earners	165,182	75,064	888,407	13,118	224,688	2,192,133	8,531,361	231,915
Average hourly earning of wage earners	\$0.66	\$0.65	\$0.76	\$0.47	\$0.56	\$0.72	\$0.93	\$0.60
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,584	1,088	12,192	389	1,595	51,689	128,068	5,406
Per wage earner	15.8	21.1	27.2	48.6	16.5	33.6	54.5	29.9
Prime movers	1,148	444	1,841	294	988	30,294	123,615	2,954
Electric motors driven by purchased energy	248	644	10,351	95	607	1,895	2,445	452
Horsepower rating of electric motors driven by energy generated by reporting companies	374	—	—	—	—	19,661	378	205
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	—	—	6	—	—	—	(13)	—
Bituminous coal (tons of 2,000 pounds)	—	—	—	—	—	—	(13)	—
Fuel oils (barrels of 42 gallons)	2,907	2,018	115,211	425	—	685,624	(13)	17,397
Gasoline and kerosene (gallons)	55,743	35,840	28,879	15,605	52,798	28,566	(13)	125,225
Natural gas (thousands of cubic feet)	—	—	—	—	1,470	1,594	(13)	25,565
Electric energy consumed (thousands of kw.-hrs.), total	483	87	19,406	13	950	51,855	(13)	86
Purchased	189	86	19,406	13	950	1,805	(13)	77
Generated by reporting companies	514	1	—	—	—	80,050	(13)	9

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

⁵ Includes amounts received or due for contract services performed during the year.

⁷ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.

⁸ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

¹⁰ Represents operations of 48 companies in the crude-petroleum and natural-gas industry, 3 mines and 1 mill in the lode-gold industry, 1 placer-gold mine, 2 mines (one of which was operated in conjunction with furnaces or retorts) in the mercury industry, 1 mine and 1 mill in the tungsten-ore industry, 1 mine and 1 preparation plant in the natural sodium compounds industry, and 1 sulfur mine.

¹¹ Represents 1 quarry and 1 crushing plant in the rough-dimension limestone industry, 1 rough-dimension slate mine, 2 preparation plants in the fuller's-earth industry, 2 barite mines, 1 mine and 1 preparation plant in the feldspar industry, 2 mines and 1 preparation plant in the kyanite, andalusite, and dumortierite industry, 2 mines in the magnesite and brucite industry, 1 mine and 1 preparation plant in the mica industry, 2 mines and 1 preparation plant in the native asphalt and bitumens industry, 1 mine and 1 preparation plant in the potash industry, 1 mine and 1 preparation plant in the pyrites industry, 1 mine and 1 preparation plant in the rock-salt industry, 5 mines and 1 preparation plant in the sulfur industry, and 1 tripoli mine.

¹² Not available.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN CALIFORNIA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Alameda	Amador	Butte	Calaveras	Contra Costa	Eldorado	Fresno	Humboldt	Imperial	Inyo
Number of operating companies ¹	707	14	29	19	34	10	32	11	4	8	35
Number of mines and quarries	771	14	35	19	37	11	31	8	5	6	34
Number of preparation plants	474	11	8	3	8	9	15	11	2	3	13
Value of all products	\$114,194,501	\$1,438,115	\$4,055,094	\$1,860,297	\$3,409,685	\$991,654	\$2,725,624	\$3,456,861	\$45,861	\$682,621	\$1,394,065
Number of persons engaged, total	17,854	237	875	293	805	208	687	119	17	148	430
Wage earners (average for the year)	15,060	187	800	258	717	186	595	101	9	127	353
Salaried employees	2,231	43	45	27	67	20	42	10	4	14	62
Proprietors and firm members	543	7	50	10	21	2	30	8	4	5	15
Performing manual labor	308	2	15	7	10	2	18	4	4	5	4
Principal expenses designated below, total	\$52,168,112	\$89,888	\$2,328,276	\$895,793	\$2,197,918	\$574,050	\$1,696,224	\$485,251	\$25,879	\$47,014	\$1,122,448
Wages	\$24,491,751	\$504,828	\$1,348,475	\$450,540	\$1,149,165	\$274,751	\$875,955	\$178,768	\$12,208	\$158,989	\$557,842
Salaries	\$5,885,892	\$129,592	\$111,594	\$72,235	\$201,808	\$55,338	\$95,414	\$25,955	\$5,060	\$27,569	\$118,639
Supplies and materials	\$15,258,511	\$180,035	\$546,138	\$216,855	\$584,519	\$143,090	\$437,727	\$140,898	\$4,648	\$24,145	\$286,640
Fuel	\$3,998,628	\$2,425	\$47,784	\$46,815	\$82,595	\$31,551	\$54,018	\$68,410	\$1,555	\$18,855	\$64,600
Purchased electric energy	\$3,659,951	\$69,871	\$239,443	\$109,250	\$185,875	\$30,229	\$122,995	\$19,022	\$2,402	\$18,657	\$38,617
Contract work	\$877,779	\$3,519	\$35,092		\$34,185	\$39,315	\$2,137	\$54,400		\$29,499	\$38,090
Cost of buildings, machinery, and equipment erected or installed during year	\$7,840,489	\$86,054	\$78,858	\$532,850	\$402,811	\$108,856	\$327,959	\$181,677		\$15,856	\$58,915
Buildings	\$1,474,552	\$9,649	\$5,738	\$1,950	\$28,598	\$40,318	\$68,532	\$1,645		\$1,182	\$160,534
Machinery and equipment	\$6,365,937	\$76,485	\$73,118	\$530,890	\$376,413	\$68,538	\$259,407	\$159,832		\$14,678	\$196,581
Horsepower rating of prime movers and electric motors driven by purchased energy, total	555,658	10,234	18,147	7,740	11,860	6,170	11,957	7,552	248	1,811	8,582
Prime movers	328,785	2,093	4,223	2,402	3,878	2,784	4,675	8,150	114	1,308	4,517
Electric motors driven by purchased energy	226,855	8,141	13,924	5,338	7,982	3,386	7,282	1,402	134	703	3,865
Horsepower rating of electric motors driven by energy generated by reporting companies	29,967	40	582		18	45	164			50	120
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	964		14				5	1			
Bituminous coal (tons of 2,000 pounds)	386		3		7		5				
Fuel oils (barrels of 42 gallons)	1,288,640	2,582	11,748	14,347	11,917	7,648	11,157	5,828	184	5,824	22,445
Gasoline and kerosene (gallons)	4,628,068	110,871	126,130	44,082	185,560	77,012	112,717	41,441	8,589	67,976	158,495
Natural gas (thousands of cubic feet)	25,555,579	1,594				68,177		1,052,790			
Electric energy consumed (thousands of kw.-hrs.), total	544,239	4,715	30,991	13,255	21,122	2,076	14,217	970	108	1,271	4,849
Purchased	459,035	4,715	30,213	13,255	21,095	1,759	13,982	911	108	1,302	4,797
Generated by reporting companies	105,204	2	778		27	517	235	59		169	152

ITEM	Kern	Kings	Lake	Los Angeles	Madera	Mariposa	Merced	Mono	Monterey	Napa	Nevada
Number of operating companies ¹	60	5	5	70	5	26	7	9	5	10	32
Number of mines and quarries	54		5	52	5	25	10	9	6	10	33
Number of preparation plants	46	5	5	79	2	18	4	3	4	9	8
Value of all products	\$9,202,541	\$6,517,210	\$411,417	\$16,940,965	\$23,751	\$1,569,928	\$1,857,540	\$405,764	\$171,270	\$815,852	\$10,855,832
Number of persons engaged, total	1,190	129	95	1,847	14	589	195	129	45	157	2,449
Wage earners (average for the year)	1,013	115	84	1,577	4	521	189	118	56	155	2,559
Salaried employees	147	14	7	441	1	19	22	8	8	12	67
Proprietors and firm members	50		4	29	9	29	4	5	1	10	23
Performing manual labor	21		4	8	9	21	2	5	1	7	14
Principal expenses designated below, total	\$5,717,750	\$528,755	\$216,754	\$5,948,429	\$10,220	\$51,561	\$582,032	\$368,557	\$82,835	\$342,855	\$6,847,495
Wages	\$1,742,076	\$251,228	\$125,453	\$2,204,945	\$2,063	\$11,522	\$244,003	\$121,983	\$42,995	\$182,314	\$4,282,311
Salaries	\$406,989	\$80,223	\$18,215	\$1,111,484	\$68	\$56,511	\$42,918	\$15,900	\$12,831	\$11,855	\$217,923
Supplies and materials	\$971,656	\$135,092	\$32,202	\$1,190,870	\$5,368	\$298,755	\$126,598	\$82,548	\$15,479	\$108,957	\$1,527,500
Fuel	\$281,532	\$74,124	\$27,687	\$210,505	\$1,747	\$50,553	\$4,751	\$18,686	\$4,905	\$18,417	\$60,310
Purchased electric energy	\$270,656	\$5,507	\$15,177	\$221,034	\$487	\$75,159	\$101,721	\$38,884	\$8,525	\$26,510	\$477,858
Contract work	\$65,021	\$24,879		\$39,895	\$477	\$80	\$2,550	\$6,376			\$1,280
Cost of buildings, machinery, and equipment erected or installed during year	\$465,381	\$100,482	\$28,181	\$1,549,061	\$5,555	\$129,555	\$21,748	\$146,359	\$7,000	\$38,024	\$279,755
Buildings	\$119,327	\$188	\$2,875	\$302,594	\$774	\$15,984	\$2,063	\$81,096	\$2,400	\$1,957	\$80,255
Machinery and equipment	\$346,054	\$100,294	\$25,456	\$1,046,667	\$2,581	\$113,569	\$19,685	\$67,245	\$4,600	\$36,067	\$199,500
Horsepower rating of prime movers and electric motors driven by purchased energy, total	52,622	6,210	1,755	126,539	282	7,275	4,196	2,541	1,244	5,182	37,444
Prime movers	34,892	6,100	1,087	106,920	222	2,921	1,028	1,404	557	729	4,859
Electric motors driven by purchased energy	17,750	110	648	20,619	60	4,552	3,168	1,167	907	2,455	32,605
Horsepower rating of electric motors driven by energy generated by reporting companies	221	2	20	11		895		220		56	1,115
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	19									25	
Bituminous coal (tons of 2,000 pounds)	1									4	
Fuel oils (barrels of 42 gallons)	56,495		12,217	17,592	165	6,259	202	3,688	2,875	1,847	15,827
Gasoline and kerosene (gallons)	284,601		40,956	735,861	9,227	91,458	26,573	45,980	9,776	94,879	142,845
Natural gas (thousands of cubic feet)	3,974,153	1,392,789		11,457,054							
Electric energy consumed (thousands of kw.-hrs.), total	29,641	512	1,190	19,094	7	7,105	14,991	2,954	281	2,556	72,016
Purchased	28,794	250	1,169	18,769	7	6,953	14,991	2,869	281	2,107	70,558
Generated by reporting companies	847	262	1	325		170		65		229	1,458

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

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN CALIFORNIA, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	San Joaquin	San Luis Obispo	San Mateo	Santa Barbara
Number of operating companies ¹	20	37	9	15	17	7	42	16	9	7	8	10
Number of mines and quarries	16	36	9	17	26	8	45	17	10	5	4	4
Number of preparation plants	21	9	7	7	7	8	25	9	7	6	4	10
Value of all products	\$4,258,649	\$1,502,565	\$1,645,455	\$1,014,588	\$5,981,055	\$539,208	\$10,490,475	\$420,886	\$227,135	\$89,025	\$97,528	\$2,268,588
Number of persons engaged, total	323	417	626	354	621	225	1,492	138	62	32	28	323
Wage earners (average for the year)	275	357	578	319	539	201	1,236	114	47	27	20	264
Salaried employees	55	28	43	28	71	20	221	5	8	1	3	66
Proprietors and firm members	13	52	5	7	11	4	35	19	9	4	5	5
Performing manual labor	9	25	5	5	4	2	15	13	4	2	2	2
Principal expenses designated below, total	\$929,500	\$1,050,124	\$1,664,515	\$692,415	\$2,545,488	\$445,315	\$5,439,969	\$196,488	\$187,148	\$65,515	\$54,718	\$1,171,098
Wages	\$409,282	\$574,629	\$682,188	\$384,457	\$932,281	\$271,990	\$2,014,249	\$108,928	\$79,211	\$35,988	\$32,513	\$388,794
Salaries	\$97,879	\$67,955	\$85,474	\$66,807	\$252,007	\$68,875	\$715,068	\$10,880	\$8,934	\$2,518	\$4,078	\$119,540
Supplies and materials	\$215,386	\$281,329	\$481,574	\$174,019	\$895,722	\$66,514	\$1,541,554	\$34,655	\$42,059	\$13,472	\$5,582	\$419,454
Fuel	\$185,085	\$41,206	\$14,592	\$27,211	\$68,801	\$29,807	\$1,201,724	\$20,855	\$15,861	\$11,275	\$8,986	\$158,260
Purchased electric energy	\$23,770	\$85,506	\$155,664	\$10,556	\$597,994	\$20,708	\$181,698	\$21,250	\$11,985	\$2,514	\$4,249	\$9,700
Contract work	\$448	\$1,519	\$48,843	\$29,785	\$2,595	\$125	\$5,681	—	\$1,646	—	\$1,500	\$97,588
Cost of buildings, machinery, and equipment erected or installed during year	\$38,846	\$72,358	\$165,778	\$74,953	\$135,428	\$39,568	\$649,104	\$21,225	\$44,821	\$7,890	\$851	\$152,069
Buildings	\$1,695	\$18,459	\$47,291	\$10,500	\$12,842	—	\$256,800	\$1,499	\$1,994	\$2,150	\$75	\$69,901
Machinery and equipment	\$37,151	\$55,899	\$118,487	\$64,453	\$122,586	\$39,568	\$642,304	\$19,726	\$42,827	\$5,740	\$756	\$82,168
Horsepower rating of prime movers and electric motors driven by purchased energy, total	24,372	9,251	9,041	4,454	23,154	4,044	43,556	5,017	3,298	1,320	919	17,745
Prime movers	22,139	4,049	1,849	3,749	3,920	1,149	84,555	2,898	1,578	1,060	485	12,458
Electric motors driven by purchased energy	2,233	5,202	7,192	685	19,214	2,895	9,001	2,119	1,718	250	434	5,287
Horsepower rating of electric motors driven by energy generated by reporting companies	128	180	—	4,596	—	18	20,065	15	100	—	—	—
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	—	875	9	—	15	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	14	—	108	—	140	5	—	—	—	—	—
Fuel oils (barrels of 42 gallons)	22,133	15,982	1,854	1,880	15,985	11,079	984,668	4,685	2,518	258	—	1,747
Gasoline and kerosene (gallons)	99,944	110,912	30,952	133,047	222,750	88,069	251,244	106,617	68,645	62,773	47,583	96,801
Natural gas (thousands of cubic feet)	2,804,255	—	—	8,045	—	—	1,004	—	—	—	—	1,597,370
Electric energy consumed (thousands of kw.-hrs.), total	2,951	8,280	16,761	4,542	65,422	1,453	98,785	1,108	662	229	193	8,991
Purchased	2,259	8,057	16,761	765	65,422	1,430	17,549	1,094	656	229	193	8,688
Generated by reporting companies	692	223	—	5,779	—	3	81,454	12	26	—	—	303

ITEM	Santa Clara	Santa Cruz	Shasta	Sierra	Siskiyou	Sonoma	Stanislaus	Trinity	Tuolumne	Ventura	Yuba	All other ²
Number of operating companies ¹	7	6	24	11	25	8	10	25	21	17	10	11
Number of mines and quarries	8	7	28	9	25	6	10	22	21	10	10	11
Number of preparation plants	6	4	8	6	4	5	4	5	8	18	4	9
Value of all products	\$259,798	\$502,358	\$1,815,775	\$764,082	\$1,595,754	\$292,742	\$1,155,942	\$1,587,797	\$527,597	\$5,410,742	\$2,627,989	\$553,143
Number of persons engaged, total	85	90	336	202	251	77	190	266	150	218	376	578
Wage earners (average for the year)	74	80	288	187	187	67	158	212	120	197	347	116
Salaried employees	9	8	19	6	20	9	24	27	14	20	25	455
Proprietors and firm members	2	2	19	9	24	1	10	27	18	1	6	5
Performing manual labor	2	2	10	3	20	1	3	12	9	—	6	1
Principal expenses designated below, total	\$134,820	\$300,972	\$1,126,002	\$553,502	\$645,620	\$179,204	\$584,798	\$751,469	\$537,059	\$765,629	\$1,406,254	\$1,346,425
Wages	\$83,140	\$115,474	\$500,704	\$355,772	\$324,853	\$98,540	\$252,648	\$341,551	\$175,148	\$518,851	\$318,728	\$154,086
Salaries	\$19,174	\$22,528	\$45,908	\$20,015	\$28,659	\$34,190	\$49,511	\$55,848	\$27,730	\$51,958	\$31,087	\$1,097,163
Supplies and materials	\$13,601	\$32,955	\$481,685	\$146,011	\$166,856	\$37,147	\$163,605	\$244,881	\$92,297	\$189,747	\$490,955	\$54,425
Fuel	\$10,421	\$4,279	\$59,051	\$5,146	\$62,813	\$11,754	\$14,175	\$45,402	\$21,162	\$152,299	\$8,580	\$21,672
Purchased electric energy	\$8,494	\$12,192	\$58,646	\$45,858	\$52,479	\$7,595	\$100,677	\$64,257	\$19,599	\$21,748	\$226,148	\$16,904
Contract work	—	\$62,564	—	\$2,700	—	—	\$4,186	\$260	\$1,125	\$31,028	—	\$2,175
Cost of buildings, machinery, and equipment erected or installed during year	\$2,486	\$11,014	\$155,855	\$54,329	\$188,178	\$19,885	\$225,801	\$702,561	\$100,743	\$56,129	\$287,069	\$53,227
Buildings	\$900	\$5,259	\$14,411	\$20,822	\$1,372	\$4,825	\$33,127	\$1,505	\$10,842	\$5,779	\$19,982	\$1,784
Machinery and equipment	\$1,586	\$5,755	\$121,444	\$33,507	\$186,806	\$15,060	\$192,674	\$701,256	\$89,901	\$22,550	\$267,087	\$51,443
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,698	2,050	7,867	4,018	5,280	941	8,987	7,481	5,817	25,562	10,061	5,788
Prime movers	1,021	491	4,786	721	5,738	291	975	4,587	1,994	23,071	832	5,196
Electric motors driven by purchased energy	1,677	1,559	3,081	3,297	1,542	650	8,012	2,944	1,833	2,291	9,259	2,570
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	—	287	—	210	758	—	—	—	306
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	—	—	—	5	—	—	—	—	—	—	—	100
Bituminous coal (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—	—	—
Fuel oils (barrels of 42 gallons)	864	54	11,637	197	8,616	519	2,193	14,005	2,172	167	1,545	8,251
Gasoline and kerosene (gallons)	57,063	26,017	188,785	25,818	239,478	68,360	64,966	41,602	97,278	81,257	17,275	71,547
Natural gas (thousands of cubic feet)	—	—	—	—	—	156	—	—	—	3,198,014	—	—
Electric energy consumed (thousands of kw.-hrs.), total	494	880	5,607	5,091	5,811	479	8,552	20,872	1,608	1,733	39,059	921
Purchased	494	880	5,607	5,091	5,690	473	8,587	7,861	1,608	1,658	39,059	888
Generated by reporting companies	—	—	—	—	121	6	165	15,511	—	95	—	35

¹ Companies with operations in more than 1 county are counted only once in the totals.² Lassen, Marin, San Francisco, Solano, Tehama, Tulare, and Yolo.

COLORADO

Colorado ranked sixteenth among the States in value of products of mineral industries in 1939 and twelfth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 122 percent of that in 1929, and the number of wage earners 90 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 110 percent of that in 1919, and the number of wage earners 78 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 157 percent of that in 1929, and 163 percent of that in 1919.

The molybdenum-ore industry ranked first among the mineral industries in the State in 1939 on the basis of value of products. The bituminous-coal industry, which ranked second by value, accounted for 29 percent of the total value of products

¹ Statements in this text refer to producing operations only; for statistics of contract-service operations see table 2.

and 57 percent of the total number of wage earners in all mineral industries in the State. (See table 2.) The lode-gold industry accounted for 22 percent of the total value of products and 22 percent of the wage earners. Colorado ranked first among all States in value of products in the molybdenum-ore and vanadium and uranium ore industries. It ranked second in the silver-ore industry, and third in the gold and tungsten-ore industries. (See reports for these industries.)

Other mineral industries in the State were crude petroleum and natural gas, natural gasoline, copper ore, lead ore, zinc ore, manganese ore, limestone, granite, sandstone, marble, sand and gravel, clay and shale, barite, feldspar, fluorspar, gypsum, mica, peat, and vermiculite. Mineral operations (other than oil and gas wells) were located in 44 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN COLORADO: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, peat, and rock-salt industries)		1919 AND 1919 (Excluding the common clay and shale, common sand and gravel, and rock-salt industries)	
		1939	1929	1939 ¹	1919
Number of mines and quarries—	544	530	343	517	525
Number of oil and gas wells producing at end of year—	225			225	70
Number of natural-gasoline plants—	2			2	
Value of all products—	\$52,059,289	\$50,540,862	\$41,530,446	\$51,483,775	\$46,954,685
Number of persons engaged, total—	14,884	14,554	15,567	14,719	18,502
Wage earners (average for the year)—	15,259	15,077	14,562	15,126	16,790
Salaried employees—	1,288	1,135	865	1,266	1,354
Proprietors and firm members—	557	524	142	527	578
Performing manual labor—	257	255	(²)	255	257
Principal expenses designated below, total—	\$29,850,265	\$26,580,927	\$35,565,310	\$29,523,485	\$38,970,185
Wages—	\$16,561,561	\$16,525,674	\$22,574,785	\$16,406,184	\$25,405,045
Salaries—	\$2,899,054	\$2,467,224	\$2,305,688	\$2,648,540	\$2,788,529
Supplies and materials—	\$6,887,459	\$6,904,797	\$5,970,812	\$6,915,657	\$7,572,205
Fuel—	\$845,517	\$810,789	\$717,685	\$816,522	\$1,253,016
Purchased electric energy—	\$1,802,656	\$1,800,275	\$1,659,708	\$1,781,656	\$1,453,464
Contract work—	\$556,266	\$251,188	\$536,454	\$555,544	\$597,950
Cost of machinery and equipment installed during year—	\$1,642,458	\$1,519,160	\$1,796,385	\$1,609,577	(²)
Horsepower rating of power equipment, total—	192,296	185,497	116,350	189,416	116,351
Per wage earner—	14.5	14.2	8.1	14.4	6.9
Prime movers—	87,464	80,905	32,054	85,734	46,461
Electric motors driven by purchased energy—	124,832	124,594	86,276	125,682	69,870
Electric energy consumed (thousands of kw.-hrs.), total—	218,455	218,562	109,794	217,505	(²)
Purchased—	196,152	196,103	95,207	195,202	(²)
Generated by reporting companies—	22,303	22,279	16,587	22,303	(²)

¹ Includes 1 mine and 1 preparation plant in the foundry-sand industry and 1 mine and 1 preparation plant in the peat industry. Also includes 2 limestone quarries operated in conjunction with cement plants. Such operations were not included in the census of mineral industries for 1919.

² Not available.

³ Includes 190 horsepower for equipment operated by purchased power other than electric.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL

ITEM	All operations in all industries	PRODUCING OPERATIONS							
		Total	Crude petroleum and natural gas	Bituminous coal	Metallic ores				
					Gold		Silver ore	Lead ore	Zinc ore
					Lode	Placer			
1 Number of operating companies ¹ -----	513	486	13	197	153	21	21	6	5
2 Number of mines and quarries-----	563	544	-----	211	166	21	27	6	4
3 Number of oil and gas wells producing on December 31, 1939-----	223	223	223	-----	-----	-----	-----	-----	-----
4 Number of preparation plants-----	109	107	-----	11	43	-----	4	2	1
5 Value of all products ² -----	\$52,555,663	\$52,059,289	\$1,591,229	\$14,952,288	\$11,659,914	\$560,751	\$5,009,062	\$49,124	\$155,791
6 Number of persons engaged, total-----	15,158	³ 14,864	269	8,294	3,251	119	780	58	81
7 Wage earners (average for the year) Number receiving pay during pay-roll period ending nearest the 15th of:-----	15,475	13,259	115	7,607	2,954	93	715	55	74
8 January-----	14,754	14,626	106	9,150	2,766	13	641	53	75
9 February-----	14,709	14,597	109	8,947	2,804	20	671	24	72
10 March-----	14,205	14,086	109	8,456	2,846	55	656	27	78
11 April-----	12,723	12,615	115	7,043	2,819	95	671	22	73
12 May-----	11,911	11,784	109	6,201	2,832	155	680	34	65
13 June-----	11,022	10,802	118	5,188	2,904	155	695	58	73
14 July-----	11,246	10,966	120	5,248	2,961	161	740	41	48
15 August-----	12,046	11,749	118	6,235	2,773	119	766	38	44
16 September-----	13,684	13,405	118	7,633	2,850	119	763	42	88
17 October-----	15,054	14,765	125	8,966	2,890	116	775	48	91
18 November-----	15,201	14,890	121	9,115	2,857	95	764	55	94
19 December-----	15,180	14,827	118	9,103	2,785	56	745	54	95
20 Salaried employees-----	1,531	⁴ 1,288	147	507	515	16	55	1	6
21 Proprietors and firm members-----	352	337	7	180	82	10	12	2	1
22 Performing manual labor-----	259	257	-----	139	71	6	11	2	1
23 Principal expenses designated below, total-----	⁵ \$30,244,852	⁶ \$29,850,283	\$1,000,761	\$12,254,496	\$6,105,584	\$276,746	\$1,712,244	\$69,272	\$159,406
24 Wages-----	\$16,850,545	\$16,561,551	\$182,155	\$1,707,595	\$1,996,519	\$139,822	\$1,021,174	\$43,656	\$68,467
25 Salaries-----	\$2,978,190	⁷ \$2,899,054	\$420,975	\$1,008,356	\$574,872	\$24,293	\$123,088	\$1,000	\$11,840
26 Supplies and materials-----	⁸ \$7,134,425	\$6,987,439	\$68,552	\$1,715,971	\$2,452,135	\$57,441	\$456,204	\$3,732	\$6,761
27 Fuel-----	⁹ \$333,538	\$343,517	\$27,742	\$299,671	\$229,308	\$31,994	\$26,646	\$266	\$727
28 Purchased electric energy-----	¹⁰ \$1,627,101	\$1,802,636	\$2,851	\$518,243	\$759,967	\$22,498	\$11,499	\$1,515	\$18,739
29 Contract work-----	¹¹ \$501,253	\$556,288	\$304,176	\$2,680	\$130,765	\$703	\$1,621	\$2,105	\$5,074
30 Cost of buildings, machinery, and equipment erected or installed during year-----	¹² \$2,239,090	\$2,085,471	\$119,618	\$95,507	\$66,458	\$59,827	\$107,818	\$4,418	\$12,758
31 Buildings-----	¹³ \$464,646	\$441,013	\$1,510	\$72,809	\$207,016	\$1,455	\$59,636	\$4,378	\$2,012
32 Machinery and equipment, total-----	¹⁴ \$1,774,444	\$1,642,458	\$118,106	\$622,698	\$461,422	\$58,392	\$67,682	\$40	\$10,726
33 Purchased in new condition-----	¹⁵ \$1,502,668	\$1,385,946	\$111,021	\$506,986	\$382,974	\$44,177	\$57,267	-----	\$10,711
34 Purchased in used condition-----	¹⁶ \$271,776	\$256,512	\$7,087	\$115,712	\$78,448	\$14,215	\$10,415	\$40	\$15
35 Number of man-hours worked by wage earners-----	25,566,744	22,612,561	219,635	10,506,425	6,591,210	237,648	1,452,957	79,496	129,284
36 Average hourly earning of wage earners-----	\$0.72	\$0.72	\$0.85	\$0.83	\$0.61	\$0.59	\$0.70	\$0.58	\$0.76
37 Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	202,071	192,296	5,771	83,924	42,064	3,630	6,813	1,280	1,165
38 Per wage earner-----	15.0	14.5	50.2	11.0	14.7	39.0	8.9	56.0	15.7
39 Prime movers-----	70,435	67,484	5,555	31,801	12,536	2,772	2,586	650	200
40 Electric motors driven by purchased energy-----	151,636	124,812	236	52,623	29,528	858	3,775	650	965
41 Horsepower rating of electric motors driven by energy generated by reporting companies-----	24,980	24,979	6	18,057	1,834	-----	902	245	-----
42 Fuels consumed:-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
43 Anthracite (tons of 2,000 pounds)-----	¹⁷ 12	12	-----	-----	-----	-----	-----	-----	84
44 Bituminous coal (tons of 2,000 pounds)-----	¹⁸ 227,741	227,741	-----	147,288	44,298	267	1,046	4	-----
45 Fuel oils (barrels of 42 gallons)-----	¹⁹ 25,773	25,566	6,601	644	5,869	3,547	1,468	-----	-----
46 Gasoline and kerosene (gallons)-----	²⁰ 957,829	957,829	34,069	90,006	251,653	99,279	95,134	1,250	1,840
47 Natural gas (thousands of cubic feet)-----	²¹ 275,050	275,050	247,250	-----	-----	-----	-----	-----	-----
48 Electric energy consumed (thousands of kw.-hrs.), total-----	²² 219,629	218,455	72	32,946	66,500	1,505	58,765	341	846
49 Purchased-----	²³ 197,325	196,152	49	24,179	63,457	1,505	51,505	326	846
Generated by reporting companies-----	²⁴ 22,304	22,303	23	8,767	2,843	-----	7,260	15	-----

¹The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

²Represents 1 bituminous-coal mine, 11 mines and 1 mill in the lode-gold industry, 2 mines and 1 mill in the lead-ore industry, 1 zinc-ore mine, 2 molybdenum-ore mines, and 2 tungsten-ore mines.

³Represents 2 natural-gasoline plants, 1 mine and 1 preparation plant in the foundry-sand industry, 1 mine in the kaolin and ball-clay industry, 2 mines and 1 preparation plant in the barite industry, 2 mines and 1 preparation plant in the gypsum industry, 1 mica mine, 1 mine and 1 preparation plant in the peat industry, and 2 mines and 2 preparation plants in the vermiculite industry.

⁴Represents 1 mine and 1 mill in the copper-ore industry, 1 manganese-ore mine, 1 mine and 1 mill in the molybdenum-ore industry, and 4 mines and 3 mills in the vanadium and uranium ore industry.

INDUSTRIES IN COLORADO, BY INDUSTRY: 1939

PRODUCING OPERATIONS—Continued											Contract- service operations ¹	Nonpro- ducing opera- tions ²	
Metallic ores—Continued		Stone			Common sand and gravel	Fire clay	Common clay and shale	Feldspar	Fluorspar	All other ³			
Tungsten ores	Other ⁴	Crushed and broken		Rough- dimension granite, sandstone, and marble ⁵									
		Limestone	Sandstone										
8	7	9	3	5	9	8	12	4	4	10	11	19	1
20	7	14	4	6	14	10	15	7	4	10	—	19	2
7	5	4	1	—	14	1	2	—	4	8	—	2	3
\$470,549	\$18,409,220	\$80,400	\$18,510	\$76,725	\$471,772	\$70,253	\$105,744	\$95,280	\$105,576	\$121,521	\$276,574	—	4
125	1,519	156	15	38	101	50	82	42	50	75	73	199	5
97	1,184	141	15	35	82	44	51	32	42	67	57	157	6
68	1,419	105	12	8	89	39	35	25	15	49	41	67	7
77	1,471	110	18	9	89	41	58	32	15	50	46	66	8
80	1,441	84	15	19	88	30	37	32	15	58	48	71	9
95	1,219	121	15	19	78	42	48	36	45	63	53	55	10
94	1,027	155	12	47	81	43	49	36	46	58	54	75	11
95	995	140	17	45	85	44	55	35	49	71	55	165	12
101	959	177	13	48	96	40	61	32	48	72	59	221	13
107	979	176	15	48	87	35	61	32	48	70	60	237	14
102	1,015	183	15	51	90	46	52	30	51	79	64	215	15
98	1,069	147	17	36	91	63	54	37	54	70	65	204	16
113	1,128	182	17	37	86	50	54	30	60	82	67	244	17
134	1,229	155	10	26	83	58	52	50	60	76	75	260	18
14	151	12	—	2	14	2	5	8	7	6	3	40	19
14	4	3	—	3	5	4	5	2	1	2	13	2	20
15	3	2	—	2	3	1	1	—	—	1	11	1	21
\$289,413	\$4,761,493	\$273,799	\$10,185	\$36,972	\$252,916	\$50,850	\$68,414	\$64,781	\$67,871	\$69,584	\$161,268	\$455,521	22
\$150,621	\$1,755,459	\$142,162	\$7,240	\$28,784	\$114,201	\$32,121	\$40,966	\$35,814	\$41,580	\$49,215	\$36,185	\$202,811	23
\$40,184	\$492,418	\$37,042	—	\$5,060	\$39,859	\$4,500	\$5,405	\$18,840	\$2,984	\$26,874	\$26,572	\$52,564	24
\$94,050	\$1,924,554	\$50,596	\$1,828	\$4,286	\$53,842	\$10,512	\$17,940	\$5,809	\$14,978	\$11,688	\$39,585	\$107,425	25
\$2,640	\$165,500	\$11,549	\$356	\$362	\$24,014	\$2,525	\$3,181	\$4,518	\$4,528	\$6,607	\$7,023	\$2,998	26
\$21,068	\$255,813	\$9,850	\$481	—	\$21,000	\$1,172	—	—	—	\$2,455	\$1,927	\$22,538	27
\$970	\$71,989	\$22,820	—	—	—	—	\$922	—	—	\$6,745	(11)	\$44,997	28
\$1,687	\$258,450	\$5,756	\$1,589	\$1,873	\$42,406	\$795	\$5,190	\$476	\$355	\$17,063	(*)	\$155,619	29
\$175	\$64,911	\$2,429	\$981	—	\$14,715	\$200	—	\$300	\$152	\$8,354	(*)	\$25,855	30
\$1,512	\$255,519	\$3,327	\$808	\$1,873	\$27,691	\$585	\$5,190	\$175	\$201	\$8,899	(*)	\$151,986	31
\$982	\$232,670	\$3,327	\$808	—	\$25,083	\$100	\$2,090	\$175	\$201	\$7,614	(*)	\$116,722	32
\$550	\$20,849	—	—	\$1,873	\$2,628	\$495	\$5,100	—	—	\$1,065	(*)	\$15,264	33
252,621	2,536,602	270,326	21,736	52,737	195,214	68,141	83,645	67,453	72,526	93,505	109,634	344,749	34
\$0.56	\$0.69	\$0.53	\$0.53	\$0.55	\$0.59	\$0.47	\$0.49	\$0.53	\$0.57	\$0.53	\$0.79	\$0.59	35
1,704	56,666	2,598	463	500	2,258	607	624	1,016	529	1,206	1,738	8,037	36
17.6	31.5	18.4	30.9	15.2	27.5	13.8	12.2	31.8	12.6	18.0	80.5	51.2	37
397	4,552	1,602	575	400	1,106	477	624	1,016	529	1,078	1,633	1,556	38
1,307	32,514	996	68	100	1,150	130	—	—	—	130	105	6,701	39
200	1,452	1,187	—	959	—	—	—	—	12	125	—	1	40
146	51,695	1,175	—	34	11	—	—	—	—	—	(11)	—	41
—	6,591	—	—	54	15	482	—	8	961	240	(11)	—	42
13,075	50,554	41,177	5,882	4,559	698	—	—	40	—	110	(11)	405	43
—	—	—	—	—	164,016	10,279	21,214	24,138	4,521	47,423	(11)	9,546	44
—	—	—	—	—	—	—	—	—	—	27,820	(11)	—	45
971	54,113	1,000	15	420	950	27	—	—	2	182	(11)	1,174	46
827	52,069	270	15	—	950	27	—	—	—	127	(11)	1,178	47
144	2,044	730	—	420	—	—	—	—	2	55	(11)	1	48

¹ Represents 5 rough-dimension granite quarries, 1 rough-dimension sandstone quarry, and 1 mine and 1 quarry in the rough-dimension marble industry.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Includes statistics for central-office employees in the rock-salt industry and at central offices not classified by industry.

⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁶ Excludes statistics for contract-service operations.

⁷ Not available.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL

(Exclusive of the crude-petroleum and natural-gas

ITEM	State	Arapahoe	Boulder	Chaffee	Clear Creek	Delta	Denver	Dolores
1 Number of operating companies ¹	475	3	83	10	27	8	3	5
2 Number of mines and quarries	544	5	80	10	25	8	4	4
3 Number of preparation plants	107	5	15	8	10	—	6	1
4 Value of all products	\$50,868,060	\$43,657	\$2,925,111	\$140,580	\$1,210,157	\$147,841	\$237,110	\$135,791
5 Number of persons engaged, total	14,815	14	1,251	77	582	90	230	82
6 Wage earners (average for the year)	15,144	9	1,132	65	529	75	41	75
7 Salaried employees	1,141	2	64	6	41	8	188	8
8 Proprietors and firm members	550	5	55	6	12	9	1	1
9 Performing manual labor	257	5	49	5	10	9	—	1
10 Principal expenses designated below, total	\$28,649,502	\$25,717	\$2,100,151	\$117,178	\$985,677	\$129,453	\$565,894	\$189,408
11 Wages	\$18,379,198	\$11,886	\$1,599,059	\$67,887	\$481,782	\$65,280	\$67,025	\$68,487
12 Salaries	\$2,478,079	\$4,055	\$145,555	\$6,572	\$25,975	\$15,195	\$48,124	\$11,640
13 Supplies and materials	\$6,924,087	\$2,165	\$21,899	\$21,210	\$215,181	\$25,598	\$27,123	\$6,781
14 Fuel	\$815,775	\$2,530	\$45,572	\$6,649	\$15,250	\$7,545	\$10,629	\$787
15 Purchased electric energy	\$1,800,275	\$2,801	\$124,287	\$6,913	\$25,768	\$57	\$6,785	\$16,759
16 Contract work	\$252,090	—	\$2,498	\$245	\$2,701	—	—	\$5,074
17 Cost of buildings, machinery, and equipment erected or installed during year	\$1,965,853	\$3,804	\$151,844	\$37,713	\$30,996	\$2,160	\$17,011	\$12,758
18 Buildings	\$459,505	\$147	\$24,727	\$1,659	\$25,671	\$1,507	\$1,903	\$2,012
19 Machinery and equipment	\$1,524,538	\$3,657	\$127,117	\$36,054	\$5,325	\$653	\$15,108	\$10,728
20 Horsepower rating of prime movers and electric motors driven by purchased energy, total	186,525	400	15,443	2,885	5,742	1,570	925	1,185
21 Prime movers	81,951	215	4,827	2,025	1,157	1,500	508	200
22 Electric motors driven by purchased energy	124,594	185	10,616	810	2,585	70	615	985
23 Horsepower rating of electric motors driven by energy generated by reporting companies	24,975	—	1,080	—	—	100	—	—
24 Fuels consumed:								
25 Anthracite (tons of 2,000 pounds)	12	—	1	—	—	—	—	—
26 Bituminous coal (tons of 2,000 pounds)	227,741	—	11,424	58	824	4,085	—	84
27 Fuel oils (barrels of 42 gallons)	18,787	—	1,025	1,110	475	16	100	—
28 Gasoline and kerosene (gallons)	925,760	18,200	103,906	50,270	43,748	1,740	75,530	1,840
29 Natural gas (thousands of cubic feet)	27,820	—	—	—	—	—	—	—
30 Electric energy consumed (thousands of kw.-hrs.), total	218,583	154	6,526	267	5,866	65	447	846
31 Purchased	196,108	154	5,822	267	5,866	5	447	846
Generated by reporting companies	22,280	—	704	—	—	60	—	—

ITEM	Lake	La Plata	Larimer	Las Animas	Mesa	Mineral	Moffat	Montezuma
1 Number of operating companies ¹	17	12	7	29	15	6	4	4
2 Number of mines and quarries	18	12	6	28	15	12	4	4
3 Number of preparation plants	5	1	2	4	2	2	—	1
4 Value of all products	\$15,350,665	\$79,510	\$101,858	\$2,492,618	\$206,547	\$474,805	\$115,649	\$40,680
5 Number of persons engaged, total	1,104	60	51	1,589	149	146	54	45
6 Wage earners (average for the year)	982	42	45	1,502	122	137	47	56
7 Salaried employees	105	2	3	63	7	8	—	5
8 Proprietors and firm members	19	18	5	24	20	1	7	2
9 Performing manual labor	18	10	2	17	15	1	4	1
10 Principal expenses designated below, total	\$4,206,092	\$58,585	\$32,967	\$2,121,728	\$176,550	\$275,814	\$74,002	\$51,429
11 Wages	\$1,548,579	\$41,785	\$31,585	\$1,644,045	\$113,056	\$184,429	\$53,685	\$25,877
12 Salaries	\$402,432	\$3,920	\$6,584	\$102,653	\$12,000	\$14,598	—	\$6,600
13 Supplies and materials	\$1,792,759	\$10,811	\$13,965	\$252,522	\$29,047	\$54,657	\$18,583	\$11,543
14 Fuel	\$32,686	\$1,870	\$4,182	\$26,665	\$19,873	\$19,382	\$3,489	\$2,905
15 Purchased electric energy	\$381,674	\$201	\$1,254	\$61,108	\$2,874	—	\$245	—
16 Contract work	\$47,962	—	\$2,189	\$4,754	—	\$748	—	\$1,704
17 Cost of buildings, machinery, and equipment erected or installed during year	\$145,974	\$3,400	\$4,000	\$20,053	\$72,500	\$17,717	\$9,780	\$5,608
18 Buildings	\$30,545	\$2,130	\$2,000	\$11,232	\$32,400	\$9,493	\$2,175	\$68
19 Machinery and equipment	\$66,631	\$1,210	\$2,000	\$8,821	\$39,900	\$8,224	\$7,605	\$5,518
20 Horsepower rating of prime movers and electric motors driven by purchased energy, total	54,570	270	540	9,657	1,501	1,151	608	180
21 Prime movers	803	270	480	2,096	985	1,151	555	180
22 Electric motors driven by purchased energy	38,567	—	80	7,561	516	—	48	—
23 Horsepower rating of electric motors driven by energy generated by reporting companies	55	—	592	770	524	597	274	—
24 Fuels consumed:								
25 Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—
26 Bituminous coal (tons of 2,000 pounds)	5,435	—	315	14,109	2,955	972	1,000	4
27 Fuel oils (barrels of 42 gallons)	815	17	3	114	5,806	1,200	46	1
28 Gasoline and kerosene (gallons)	19,058	9,535	12,368	14,017	36,675	72,749	5,980	15,255
29 Natural gas (thousands of cubic feet)	—	—	15,000	12,820	—	—	—	—
30 Electric energy consumed (thousands of kw.-hrs.), total	55,175	9	122	4,469	237	1,002	185	—
31 Purchased	63,122	9	49	4,162	60	—	5	—
Generated by reporting companies	55	—	75	307	177	1,002	180	—

¹ Companies with operations in more than 1 county are counted only once in the totals.² Adams, Archuleta, Custer, Hinsdale, Montrose, Rio Blanco, Rio Grande, and Saguache.

INDUSTRIES IN COLORADO, BY COUNTY: 1939

Industry and contract-service and nonproducing operations)

Douglas	Eagle	Elbert	El Paso	Fremont	Garfield	Gilpin	Gunnison	Huerfano	Jackson	Jefferson	
3	3	3	12	41	9	21	17	26	3	15	1
3	3	3	14	48	8	20	16	23	3	19	2
1			2	5		6	3	4	1		3
\$26,276	\$4,278,886	\$19,496	\$2,902,152	\$1,565,009	\$104,520	\$47,199	\$1,319,148	\$1,548,933	\$36,199	\$502,327	4
13	494	11	553	964	60	105	692	955	33	221	5
11	460	8	453	875	47	93	638	897	29	199	6
2	33		92	57	4	4	44	42	3	14	7
	1	3	8	32	9	8	10	16	1		8
	1	3	7	24	7	5	9	13		3	9
\$14,418	\$1,202,443	\$15,110	\$1,450,523	\$1,290,965	\$65,231	\$250,829	\$1,008,015	\$1,235,272	\$37,165	\$355,705	10
\$9,510	\$686,680	\$12,517	\$589,315	\$400,650	\$57,293	\$130,573	\$743,090	\$971,161	\$25,457	\$279,108	11
	\$39,826		\$150,185	\$93,447	\$8,125	\$7,543	\$71,261	\$69,422	\$3,567	\$26,475	12
\$3,210	\$356,479	\$2,008	\$380,702	\$205,429	\$16,102	\$59,264	\$142,316	\$114,811	\$5,858	\$58,297	13
\$1,698	\$5,049	\$371	\$206,841	\$12,440	\$3,315	\$11,334	\$25,000	\$4,224	\$2,481	\$5,795	14
	\$64,809	\$214	\$123,460	\$52,247	\$68	\$21,275	\$28,348	\$76,154		\$15,970	15
				\$28,752	\$298	\$1,840				\$60	16
	\$21,453		\$100,950	\$65,755	\$2,241	\$28,856	\$109,158	\$33,345	\$12,705	\$3,726	17
	\$5,334		\$1,526	\$17,663	\$1,442	\$4,871	\$8,395	\$6,470	\$3,256	\$461	18
	\$16,099		\$99,424	\$48,072	\$799	\$24,165	\$99,763	\$26,875	\$9,447	\$3,265	19
342	3,655	60	19,942	11,687	507	2,965	4,558	10,292	716	1,952	20
342	655	60	13,664	2,530	214	1,232	2,148	1,290	688	847	21
	3,000		6,278	9,157	95	1,733	2,410	9,002	30	1,065	22
	487		796	720		25	3,759	250	92	122	23
											24
	650		73,324	3,113	1,240		10,898	1,662	318	765	25
	408	18	650	106	53	1,050	850	57	200	14	26
11,880	665	1,947	19,459	34,994	8,532	41,505	11,920	9,187	9,000	27,053	27
											28
	57,294	10	18,881	3,060	5	1,136	2,083	3,295	52	1,419	29
	50,952	10	16,803	2,348	5	1,096	1,160	3,227		1,411	30
	6,342		2,078	712		40	953	68	52	8	31
Ouray	Park	Pitkin	Pueblo	Routt	San Juan	San Miguel	Summit	Teller	Weld	All other ^a	
6	15	3	7	13	7	7	7	36	16	11	1
7	14	3	6	15	7	7	7	47	19	15	2
4	3	1	4	3	1	5	1	3		7	3
\$536,067	\$1,351,955	\$63,929	\$291,422	\$1,788,555	\$23,540	\$1,521,705	\$62,612	\$3,112,112	\$2,902,621	\$1,635,582	4
96	585	40	85	1,174	278	521	28	769	1,265	533	5
84	342	38	61	1,129	255	488	20	710	1,220	450	6
7	37	2	23	39	21	26	3	51	57	76	7
5	6		1	6	2	7	5	8	6	7	8
5	6		1	2	2	7	4	8	5	5	9
\$222,669	\$926,176	\$70,459	\$318,652	\$1,602,921	\$617,335	\$1,378,061	\$46,733	\$1,977,162	\$2,063,188	\$1,266,151	10
\$142,949	\$534,999	\$49,141	\$61,660	\$1,172,918	\$445,062	\$669,579	\$27,018	\$26,338	\$1,500,041	\$582,454	11
\$12,325	\$72,323	\$3,000	\$60,424	\$76,865	\$56,755	\$54,227	\$4,800	\$78,979	\$117,858	\$136,108	12
\$38,066	\$199,788	\$12,799	\$155,214	\$260,132	\$236,705	\$464,983	\$5,411	\$725,145	\$285,538	\$329,936	13
\$3,429	\$29,247	\$1,479	\$7,482	\$50,587	\$7,128	\$28,275	\$3,980	\$31,752	\$46,384	\$125,326	14
\$25,880	\$74,319	\$4,020	\$23,672	\$42,419	\$71,565	\$66,598	\$2,624	\$197,335	\$109,421	\$54,404	15
	\$15,550		\$200			\$74,415	\$2,920	\$17,615	\$3,946	\$37,943	16
\$42,956	\$25,983	\$1,500	\$7,710	\$81,745	\$81,168	\$180,610	\$7,047	\$29,704	\$33,806	\$202,203	17
\$289	\$1,009	\$500	\$7,165	\$5,850	\$24,670	\$62,780	\$2,000	\$15,802	\$18,378	\$43,515	18
\$42,687	\$24,974	\$1,000	\$545	\$76,896	\$56,496	\$66,030	\$5,047	\$13,902	\$315,428	\$159,688	19
704	4,019	220	2,277	10,806	3,922	3,761	665	11,640	10,989	6,736	20
129	1,543	50	302	7,006	1,069	2,280	480	1,879	2,230	4,763	21
575	2,476	170	1,975	3,800	2,833	1,481	205	9,761	8,759	1,975	22
		35		10,379	120	1,619			1,388	1,509	23
											24
			11								25
221	1,958	85	462	32,121	1,096	1,806	192	4,667	25,474	26,102	26
	772	68	15	11	198	2,642				1,481	27
4,976	61,315	2,400	41,258	15,640	3,046	37,093	14,287	45,065		65,955	28
											29
1,494	4,911	229	1,646	6,420	7,466	8,973	78	16,250	5,294	5,041	29
1,494	4,911	225	1,646	1,609	7,438	6,791	76	16,250	4,820	5,051	30
		4		4,811	30	2,182			474	1,980	31

CONNECTICUT

Connecticut ranked forty-first among the States in value of products of mineral industries in 1939 and forty-second in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products reported for the State in 1939 was 68 percent of that in 1929, and the number of wage earners 75 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 132 percent of that in 1919, and the number of wage earners 89 percent.

The crushed and broken basalt industry ranked first among the mineral industries in the State in 1939, accounting for 59

percent of the total value of products and 51 percent of the wage earners. (See table 2.) The common sand and gravel industry ranked second. The two industries accounted for 83 percent of the total value of products, and 72 percent of the wage earners employed. Connecticut ranked second among all States in the crushed and broken basalt industry. (See report for this industry.)

Other mineral industries in the State were limestone, granite, sandstone, common clay and shale, feldspar, mica, and peat. Mineral operations were reported in 8 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; no contract service operations were classified in the State and no nonproducing operations were reported for 1939.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN CONNECTICUT: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1939 ¹	1929	1939 ^{1 2}	1919
Number of mines and quarries	65	52	53	32	47
Value of all products	\$2,917,276	\$2,854,242	\$4,193,403	\$2,169,461	\$1,649,003
Number of persons engaged, total	725	705	951	532	642
Wage earners (average for the year)	655	618	818	482	543
Salaried employees	71	71	116	47	72
Proprietors and firm members	19	18	19	3	27
Performing manual labor	4	4	(³)	1	5
Principal expenses designated below, total	\$1,655,669	\$1,625,227	\$2,103,870	\$1,222,434	\$1,242,608
Wages	\$753,438	\$732,811	\$1,507,564	\$571,625	\$646,624
Salaries	\$180,491	\$180,491	\$513,793	\$125,755	\$144,476
Supplies and materials	\$435,979	\$433,854	\$205,285	\$222,994	\$304,096
Fuel	\$137,292	\$132,098	\$120,927	\$89,811	\$75,788
Purchased electric energy	\$127,428	\$125,432	\$156,051	\$101,863	\$44,586
Contract work	\$21,041	\$21,041	\$450	\$386	\$27,038
Cost of machinery and equipment installed during year	\$142,406	\$140,406	\$252,112	\$90,481	(³)
Horsepower rating of power equipment, total	28,420	27,625	13,622	20,282	6,520
Per wage earner	44.8	44.8	16.7	42.1	15.7
Prime movers	18,354	15,646	3,816	10,871	4,831
Electric motors driven by purchased energy	12,066	11,979	9,806	9,411	3,889
Electric energy consumed (thousands of kw.-hrs.), total	5,316	5,210	6,950	4,364	(³)
Purchased	5,172	5,068	6,950	4,229	(³)
Generated by reporting companies	144	144		135	(³)

¹ Includes 1 mine and 1 preparation plant in the peat industry. This industry was not included in the census of mineral industries for 1929 or 1919.

² Includes 3 limestone quarries, with products valued at \$157,361, operated in conjunction with lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN CONNECTICUT, BY INDUSTRY: 1939

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total	STONE			Common clay and shale	Common sand and gravel	Feldspar, mica, and peat ¹
		Crushed and broken		Rough- dimension granite and sandstone ²			
		Limestone and granite ³	Basalt				
Number of operating companies ⁴	52	5	15	5	10	20	4
Number of mines and quarries	65	5	18	5	11	20	4
Number of preparation plants	44	5	18			20	1
Value of all products ⁵	\$2,917,276	\$206,679	\$1,733,571	\$119,669	\$63,034	\$684,781	\$109,542
Number of persons engaged, total	725	58	354	73	20	173	49
Wage earners (average for the year)	655	48	322	67	19	134	45
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	436	46	218	69	4	64	35
February	399	34	179	62	3	66	35
March	537	45	247	88	4	107	48
April	658	59	297	86	13	129	54
May	709	64	346	88	28	143	42
June	745	54	370	78	30	159	44
July	757	48	394	69	29	175	44
August	701	49	389	28	30	165	40
September	725	48	395	49	28	158	47
October	718	52	375	55	28	156	50
November	665	46	355	70	15	149	50
December	574	34	299	47	12	128	54
Salaried employees	71	8	52	4		24	5
Proprietors and firm members	19			2	1	15	1
Performing manual labor	4			1		5	
Principal expenses designated below, total	\$1,655,689	\$124,825	\$936,814	\$105,940	\$50,442	\$402,793	\$56,855
Wages	\$753,458	\$65,472	\$584,013	\$80,386	\$21,127	\$180,686	\$43,754
Salaries	\$180,491	\$19,407	\$95,700	\$9,808		\$54,758	\$2,840
Supplies and materials	\$435,879	\$28,952	\$286,286	\$1,650	\$2,125	\$110,660	\$6,146
Fuel	\$137,292	\$2,243	\$86,027	\$9,363	\$5,194	\$32,287	\$2,188
Purchased electric energy	\$127,428	\$10,771	\$88,402	\$2,763	\$1,996	\$23,569	\$1,927
Contract work	\$21,041		\$588			\$20,655	
Cost of buildings, machinery, and equipment erected or installed during year	\$191,664	\$7,966	\$92,037	\$1,637	\$2,425	\$84,629	\$2,670
Buildings	\$49,258		\$12,512	\$617	\$425	\$34,704	\$1,000
Machinery and equipment, total	\$142,406	\$7,966	\$79,725	\$1,120	\$2,000	\$49,925	\$1,670
Purchased in new condition	\$111,629	\$7,666	\$65,287	\$840	\$2,000	\$35,686	\$170
Purchased in used condition	\$30,777	\$300	\$14,438	\$480		\$14,059	\$1,500
Number of man-hours worked by wage earners	1,370,255	90,995	715,588	151,041	35,445	296,137	99,047
Average hourly earning of wage earners	\$0.55	\$0.70	\$0.54	\$0.61	\$0.80	\$0.54	\$0.44
Horsepower rating of prime movers and electric motors driven by purchased energy, total	28,420	1,263	16,529	2,102	795	7,343	368
Per wage earner	44.8	28.3	51.3	31.4	41.6	54.8	8.6
Prime movers	16,354	875	8,084	1,865	708	4,975	247
Electric motors driven by purchased energy	12,066	588	8,445	437	87	2,368	141
Horsepower rating of electric motors driven by energy generated by reporting companies	1,020	200	620			200	
Fuels consumed: ⁶							
Anthracite (tons of 2,000 pounds)	7		7				
Bituminous coal (tons of 2,000 pounds)	8,439	26	6,631	1,246	380	156	
Fuel oils (barrels of 42 gallons)	5,131	86	3,853	1,110		76	
Gasoline and kerosene (gallons)	570,291	15,049	272,265		21,925	244,723	16,329
Electric energy consumed (thousands of kw.-hrs.), total	5,516	437	3,795	80	106	846	52
Purchased	5,172	417	3,680	80	106	837	52
Generated by reporting companies	144	20	115			9	

¹ Represents 2 feldspar mines, 1 mica mine, and 1 mine and 1 preparation plant in the peat industry.² Represents 4 rough-dimension granite quarries and 1 rough-dimension sandstone quarry.³ Represents 4 quarries and 4 crushing plants in the crushed and broken limestone industry, and 1 quarry and 1 crushing plant in the crushed and broken granite industry.⁴ Companies with operations in more than 1 industry are counted only once in the totals.⁵ Includes amounts received or due for contract services performed during the year.⁶ No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN CONNECTICUT, BY COUNTY: 1939

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	State	Fairfield	Hartford	Litchfield	Middlesex	New Haven	New London
Number of operating companies ¹	52	8	16	4	6	15	5
Number of mines and quarries	65	8	20	4	6	19	6
Number of preparation plants	44	8	14	4	1	14	3
Value of all products	\$2,917,276	\$293,089	\$940,420	\$189,493	\$132,618	\$1,131,980	\$229,666
Number of persons engaged, total	725	79	184	36	54	262	110
Wage earners (average for the year)	655	64	156	33	48	235	99
Salaried employees	71	13	20	3	4	22	9
Proprietors and firm members	19	2	8		2	5	2
Performing manual labor	4				1	3	
Principal expenses designated below, total	\$1,655,669	\$203,859	\$519,354	\$86,896	\$67,801	\$586,768	\$190,991
Wages	\$753,436	\$83,414	\$210,827	\$43,880	\$47,559	\$250,033	\$117,725
Salaries	\$180,491	\$34,928	\$42,424	\$5,980	\$4,840	\$69,130	\$23,189
Supplies and materials	\$435,979	\$53,763	\$173,535	\$18,360	\$7,500	\$149,469	\$55,332
Fuel	\$137,292	\$8,691	\$45,744	\$6,960	\$4,637	\$57,623	\$13,657
Purchased electric energy	\$127,428	\$13,083	\$46,824	\$11,716	\$3,265	\$49,452	\$5,108
Contract work	\$21,041	\$10,000				\$11,041	
Cost of buildings, machinery, and equipment erected or installed during year	\$191,664	\$43,947	\$49,603	\$24,850	\$170	\$42,701	\$30,393
Buildings	\$49,258	\$30,392	\$7,145			\$6,592	\$5,129
Machinery and equipment	\$142,406	\$13,555	\$42,458	\$24,850	\$170	\$36,109	\$25,264
Horsepower rating of prime movers and electric motors driven by purchased energy, total	26,420	3,777	8,964	650	1,206	10,960	2,643
Prime movers	16,354	2,416	4,859	298	613	5,603	2,365
Electric motors driven by purchased energy	12,066	1,361	4,125	552	593	5,357	278
Horsepower rating of electric motors driven by energy generated by reporting companies	1,020		620			200	200
Fuels consumed: ²							
Anthracite (tons of 2,000 pounds)	7		7				
Bituminous coal (tons of 2,000 pounds)	8,459	116	2,186	178	108	4,705	1,206
Fuel oils (barrels of 42 gallons)	5,131	121	618		5	3,277	1,110
Gasoline and kerosene (gallons)	570,291	69,075	231,020	35,635	29,976	165,185	39,400
Electric energy consumed (thousands of kw.-hrs.), total	5,316	494	1,593	447	94	2,601	87
Purchased	5,172	494	1,478	447	94	2,592	67
Generated by reporting companies	144		115			9	20

¹ Companies with operations in more than 1 county are counted only once in the total.² No natural gas was reported consumed.

DELAWARE

Delaware ranked forty-eighth among the States in both value of products and number of wage earners employed, for mineral industries canvassed in 1939. (See table 2, General Summary.) Separate statistics are not available for the State for 1929, but for industries canvassed in both 1919 and 1939, the value of products in 1939 was 69 percent of that in 1919, and the number of wage earners 38 percent. (See table 1.) Mineral industries in the State were granite, common sand and gravel,

kaolin and ball clay, and common clay and shale. (See table 2.) Detailed statistics for the two counties (New Castle and Sussex) in which mineral operations were located in 1939 cannot be shown without disclosure of data for individual operating companies, but the number of operating companies, mines and quarries, and preparation plants by county and industry are given in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN DELAWARE: 1939 AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1919 (Excluding the common sand and gravel industry)		ITEM	1939 (All industries)	1939 AND 1919 (Excluding the common sand and gravel industry)	
		1939 ¹	1919			1939 ¹	1919
Number of mines and quarries-----	9	5	8	Principal expenses designated below, total-----	\$153,151	\$97,687	\$212,772
Value of all products-----	\$242,453	\$167,782	\$243,647	Wages-----	\$68,925	\$43,167	\$135,502
Number of persons engaged, total-----	66	56	150	Salaries-----	\$33,072	\$27,012	\$20,479
Wage earners (average for the year)-----	66	44	118	Supplies and materials-----	\$25,183	\$12,589	\$34,214
Salaried employees-----	15	11	12	Fuel-----	\$13,820	\$6,880	\$19,559
Proprietors and firm members-----	3	1	2	Purchased electric energy-----	\$12,151	\$8,059	-----
Performing manual labor-----	2	1	1	Contract work-----	-----	-----	\$3,018
				Horsepower rating of power equipment, total-----	3,067	2,215	660
				Per wage earner-----	45.1	50.3	5.7
				Prime movers-----	1,735	1,254	660
				Electric motors driven by purchased energy-----	1,332	961	-----

¹ Includes 1 mine in the common clay and shale industry. This industry was not included in the census of mineral industries for 1919.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN DELAWARE, BY INDUSTRY: 1939
(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total	Granite and clay and shale ¹	Common sand and gravel	ITEM	Total	Granite and clay and shale ¹	Common sand and gravel
Number of operating companies ² -----	9	5	4	Principal expenses designated below, total ⁴ -----	\$153,151	\$97,687	\$55,464
Number of mines and quarries-----	9	5	4	Wages-----	\$68,925	\$43,167	\$25,758
Number of preparation plants-----	7	3	4	Salaries-----	\$33,072	\$27,012	\$8,060
Value of all products ³ -----	\$242,453	\$167,782	\$74,671	Supplies and materials-----	\$25,183	\$12,589	\$12,594
Number of persons engaged, total-----	66	56	30	Fuel-----	\$13,820	\$6,880	\$3,940
Wage earners (average for the year)-----	66	44	24	Purchased electric energy-----	\$12,151	\$8,059	\$4,112
Number receiving pay during pay-roll period ending nearest the 15th of:				Cost of buildings, machinery, and equipment erected or installed during year-----	\$7,642	\$6,142	\$1,500
January-----	53	29	24	Buildings-----	\$2,142	\$2,142	-----
February-----	54	29	25	Machinery and equipment, total-----	\$5,500	\$4,000	\$1,500
March-----	63	40	23	Purchased in new condition-----	\$1,500	-----	\$1,500
April-----	64	39	25	Purchased in used condition-----	\$4,000	\$4,000	-----
May-----	66	44	22	Number of man-hours worked by wage earners-----	150,401	85,249	45,152
June-----	70	45	25	Average hourly earning of wage earners-----	\$0.53	\$0.51	\$0.57
July-----	69	46	23	Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	3,067	2,215	852
August-----	78	52	26	Per wage earner-----	45.1	50.3	35.5
September-----	69	57	32	Prime movers-----	1,735	1,254	461
October-----	79	55	25	Electric motors driven by purchased energy ⁵ -----	1,332	961	371
November-----	73	50	25	Fuels consumed: ⁶			
December-----	64	43	21	Anthracite (tons of 2,000 pounds)-----	73	5	70
Salaried employees-----	15	11	4	Bituminous coal (tons of 2,000 pounds)-----	221	221	-----
Proprietors and firm members-----	3	1	2	Gasoline and kerosene (gallons)-----	105,202	62,202	45,000
Performing manual labor-----	2	1	1	Electric energy consumed (thousands of kw.-hrs.) ⁷ -----	445	332	114

¹ Represents 2 quarries and 2 crushing plants in the crushed and broken granite industry, 1 rough dimension granite quarry, 1 mine and 1 preparation plant in the kaolin and ball-clay industry, and 1 common clay and shale mine.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ No expenditures for contract work were reported.

⁵ No electric motors were reported driven by energy generated by reporting companies.

⁶ No fuel oils or natural gas were reported consumed.

⁷ Represents purchased energy; no electric energy was reported generated by reporting companies.

FLORIDA

Florida ranked thirty-first among the States in value of products of mineral industries in 1939, and thirty-third in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 79 percent of that in 1929, and the number of wage earners 96 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 117 percent of that in 1919, and the number of wage earners 86 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 106 percent of that in 1929, and 250 percent of that in 1919.

The phosphate-rock industry ranked first among the mineral industries in the State in 1939, accounting for 71 percent of

the total value of products and 63 percent of the total number of wage earners. (See table 2.) The crushed and broken limestone industry ranked second, with 15 percent of the total value of products and 21 percent of the wage earners. Florida phosphate-rock operations, chiefly land-pebble operations, accounted for 65 percent of the total value of products of the industry in the United States. (See report for this industry.)

Other mineral industries in the State were bauxite, rough dimension limestone, miscellaneous stone, kaolin and ball clay, common clay and shale, fuller's earth, common sand and gravel, diatomite, and peat. Mineral operations were located in 20 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for information regarding contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN FLORIDA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1939 ¹	1929	1939 ^{1 2}	1919
Number of mines and quarries-----	85	80	74	64	55
Value of all products-----	\$11,154,877	\$11,180,160	\$14,014,955	\$10,487,183	\$8,978,415
Number of persons engaged, total-----	5,480	5,459	3,583	3,265	5,694
Wage earners (average for the year)-----	3,070	3,052	3,175	2,889	3,372
Salaried employees-----	385	383	394	357	514
Proprietors and firm members-----	25	24	16	19	8
Performing manual labor-----	4	4	(³)	5	2
Principal expenses designated below, total-----	\$6,264,552	\$6,242,402	\$8,040,664	\$5,905,057	\$7,419,142
Wages-----	\$2,406,415	\$2,395,640	\$3,151,530	\$2,238,978	\$3,107,813
Salaries-----	\$775,099	\$770,545	\$866,795	\$754,766	\$866,202
Supplies and materials-----	\$1,452,703	\$1,448,713	\$1,784,720	\$1,557,027	\$1,856,229
Fuel-----	\$771,505	\$768,476	\$863,586	\$751,804	\$1,112,472
Purchased electric energy-----	\$815,681	\$815,681	\$1,146,690	\$809,571	\$74,224
Contract work-----	\$45,549	\$45,549	\$27,643	\$32,911	\$121,202
Cost of machinery and equipment installed during year-----	\$351,137	\$328,896	\$765,513	\$317,786	(³)
Horsepower rating of power equipment, total-----	116,656	116,518	110,291	112,617	44,969
Per wage earner-----	38.0	38.2	34.8	39.0	13.5
Prime movers-----	44,056	45,916	51,864	40,657	42,689
Electric motors driven by purchased energy-----	72,600	72,600	58,427	71,960	2,280
Electric energy consumed (thousands of kw.-hrs.), total-----	128,316	128,316	159,126	127,976	(³)
Purchased-----	95,257	95,257	106,917	95,007	(³)
Generated by reporting companies-----	33,059	33,059	52,209	32,969	(³)

¹ Includes 1 mine and 1 preparation plant in the peat industry. This industry was not included in the census of mineral industries for 1929 or 1919.

² Includes 3 limestone quarries, with products valued at \$195,780, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN FLORIDA, BY INDUSTRY: 1939

(For producing and contract-service operations only)¹

ITEM	All operations in all industries ¹	PRODUCING OPERATIONS									Contract-service operations ⁴
		Total	Stone		Rough-dimension limestone	Clay		Common sand and gravel	Phosphate rock	Bauxite, diatomite, and peat ³	
			Crushed and broken	Miscellaneous		Common clay and shale	Kaolin and ball-clay and fuller's earth ²				
Number of operating companies ⁵ -----	71	68	25	5	5	5	4	15	19	5	5
Number of mines and quarries-----	85	83	28	5	5	5	5	16	23	2	-----
Number of preparation plants-----	85	83	25	5	-----	-----	4	16	54	5	-----
Value of all products ⁶ -----	\$11,175,672	\$11,164,877	\$1,672,502	\$109,220	\$55,400	\$24,717	\$851,581	\$842,997	\$7,975,071	\$45,579	\$18,795
Number of persons engaged, total-----	5,496	73,480	712	53	9	19	270	196	2,199	20	16
Wage earners (average for the year)-----	5,065	3,070	650	46	6	18	248	165	1,945	16	13
Number receiving pay during pay-roll period ending nearest the 15th of:											
January-----	5,065	3,052	570	49	5	14	255	154	2,007	20	11
February-----	3,051	3,038	554	44	6	15	255	157	2,011	16	13
March-----	2,966	2,952	530	41	5	21	231	158	1,956	10	14
April-----	3,159	3,148	651	58	6	21	234	161	2,021	16	11
May-----	3,092	3,079	597	44	5	16	225	160	2,020	14	13
June-----	3,167	3,156	641	50	5	18	238	162	2,028	14	11
July-----	3,131	3,118	712	55	6	17	251	158	1,904	15	13
August-----	3,245	3,235	753	49	6	21	245	160	1,986	15	12
September-----	3,074	3,062	667	50	5	21	255	167	1,879	18	12
October-----	2,818	2,802	591	45	8	21	285	175	1,765	16	16
November-----	3,005	2,991	614	48	7	21	268	175	1,840	18	12
December-----	3,126	3,114	685	45	7	15	279	175	1,895	17	12
Salaried employees-----	385	7585	74	5	1	-----	22	28	249	4	-----
Proprietors and firm members-----	28	25	8	2	2	1	-----	5	7	-----	5
Performing manual labor-----	6	4	2	-----	1	-----	-----	1	-----	-----	2
Principal expenses designated below, total-----	\$46,277,790	\$46,264,552	\$885,100	\$59,225	\$9,056	\$17,594	\$566,825	\$541,901	\$4,582,746	\$29,551	\$13,256
Wages-----	\$2,415,085	\$2,406,415	\$404,566	\$21,208	\$2,580	\$10,775	\$137,861	\$156,682	\$1,658,555	\$14,410	\$6,670
Salaries-----	\$775,099	\$775,099	\$145,517	\$5,880	\$1,170	-----	\$42,951	\$40,553	\$528,965	\$7,747	-----
Supplies and materials-----	\$1,454,665	\$1,452,703	\$184,546	\$5,963	\$2,120	\$5,990	\$49,351	\$91,686	\$1,112,957	\$2,270	\$1,962
Fuel-----	\$775,811	\$771,505	\$100,761	\$5,539	\$561	\$2,629	\$77,546	\$56,672	\$547,537	\$2,260	\$2,506
Purchased electric energy-----	\$815,781	\$815,681	\$40,819	\$2,613	-----	-----	\$49,358	\$6,110	\$713,959	\$2,664	\$100
Contract work-----	\$43,349	\$43,349	\$9,081	-----	\$2,825	-----	-----	\$10,458	\$20,995	-----	(¹⁰)
Cost of buildings, machinery, and equipment erected or installed during year-----	\$477,060	\$476,760	\$157,717	\$4,500	-----	\$2,241	\$5,826	\$13,774	\$291,082	\$1,820	\$500
Buildings-----	\$145,625	\$145,625	\$66,901	\$800	-----	-----	\$217	\$2,664	\$74,601	\$940	(¹⁰)
Machinery and equipment, total-----	\$331,137	\$331,137	\$90,816	\$4,000	-----	\$2,241	\$5,609	\$11,110	\$216,481	\$880	(¹⁰)
Purchased in new condition-----	\$277,209	\$277,209	\$51,707	-----	-----	\$2,241	\$5,609	\$4,760	\$212,082	\$880	(¹⁰)
Purchased in used condition-----	\$53,928	\$53,928	\$39,109	\$4,000	-----	-----	-----	\$6,350	\$4,459	-----	(¹⁰)
Number of man-hours worked by wage earners-----	6,016,773	5,994,528	1,296,067	78,655	9,848	35,568	455,584	592,704	5,716,271	34,035	22,245
Average hourly earning of wage earners-----	\$0.40	\$0.40	\$0.51	\$0.27	\$0.28	\$0.32	\$0.52	\$0.40	\$0.45	\$0.42	\$0.59
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	117,014	116,656	11,756	794	45	136	6,556	3,901	92,694	612	558
Per wage earner-----	58.0	58.0	18.6	17.3	7.5	7.7	26.3	23.9	47.7	50.8	27.5
Prime movers-----	44,414	44,058	7,620	629	45	136	5,684	5,261	28,559	140	556
Electric motors driven by purchased energy-----	72,600	72,600	4,116	165	-----	-----	2,852	840	64,155	672	-----
Horsepower rating of electric motors driven by energy generated by reporting companies-----	33,625	33,625	251	-----	-----	-----	143	90	35,541	-----	-----
Fuels consumed: ¹¹											
Bituminous coal (tons of 2,000 pounds)-----	\$11,641	11,641	2,971	-----	-----	77	4,125	-----	4,468	-----	(¹⁰)
Fuel oils (barrels of 42 gallons)-----	\$490,282	490,282	17,294	229	-----	1,524	25,587	13,487	451,228	1,145	(¹⁰)
Gasoline and kerosene (gallons)-----	\$601,975	601,975	235,923	9,740	1,950	-----	42,459	106,464	208,487	2,002	(¹⁰)
Electric energy consumed (thousands of kw.-hrs.), total-----	\$128,516	128,516	3,097	106	-----	-----	4,061	340	120,545	169	(¹⁰)
Purchased-----	\$95,257	95,257	2,644	106	-----	-----	3,870	250	88,218	169	(¹⁰)
Generated by reporting companies-----	\$33,059	33,059	453	-----	-----	-----	191	90	32,325	-----	(¹⁰)

¹Nonproducing operations of 1 company in the crude-petroleum and natural-gas industry and 1 nonproducing operation (1 mine and 1 preparation plant) in the phosphate-rock industry were reported, but are not covered in the table to avoid disclosure of confidential information.

²Represents 2 mines and 2 preparation plants in the kaolin and ball-clay industry, and 5 mines and 2 preparation plants in the fuller's-earth industry.

³Represents 1 bauxite mill, 1 mine and 1 mill in the diatomite industry, and 1 mine and 1 preparation plant in the peat industry.

⁴The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁵Companies with operations in more than 1 industry are counted only once in the totals.

⁶Includes amounts received or due for contract services performed during the year.

⁷Includes statistics for central-office employees in the crude-petroleum and natural-gas industry.

⁸Contract-service operators were not asked to report expenditures for contract work.

⁹Excludes statistics for contract-service operations.

¹⁰Not available.

¹¹No anthracite or natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN FLORIDA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Alachua	Citrus	Dade	Gadsden	Hernando	Levy	Manatee	Marion	Polk	Putnam	All other ¹
Number of operating companies ²	68	5	8	10	3	3	4	3	10	11	4	12
Number of mines and quarries	85	5	8	13	4	3	4	3	11	15	4	13
Number of preparation plants	85	4	6	11	3	2	4	1	11	26	4	11
Value of all products	\$11,154,877	\$194,620	\$374,706	\$667,928	\$477,494	\$542,894	\$167,595	\$21,150	\$233,061	\$7,177,029	\$283,009	\$615,391
Number of persons engaged, total	5,480	132	246	278	171	167	96	21	189	1,786	123	271
Wage earners (average for the year)	5,070	122	220	248	154	158	80	14	154	1,585	108	227
Salaried employees	385	10	20	24	16	9	14	4	31	201	15	41
Proprietors and firm members	25		6	5	1		2	3	4			3
Performing manual labor	4			1				2				1
Principal expenses designated below, total	\$6,264,552	\$105,552	\$242,918	\$436,412	\$266,798	\$287,877	\$85,608	\$15,187	\$147,141	\$4,047,092	\$169,969	\$461,698
Wages	\$2,406,415	\$59,588	\$113,036	\$255,500	\$120,975	\$100,441	\$5,839	\$8,350	\$50,222	\$1,446,162	\$54,823	\$181,679
Salaries	\$775,099	\$22,382	\$32,959	\$54,936	\$33,860	\$25,105	\$2,800	\$2,700	\$48,039	\$425,371	\$16,260	\$80,688
Supplies and materials	\$1,452,703	\$7,179	\$60,155	\$78,510	\$37,035	\$98,308	\$10,207	\$1,745	\$24,832	\$1,024,149	\$40,271	\$72,712
Fuel	\$771,506	\$18,567	\$14,800	\$59,516	\$58,206	\$18,953	\$7,871	\$377	\$15,063	\$489,985	\$25,119	\$65,548
Purchased electric energy	\$815,681	\$36	\$22,468	\$150	\$16,720	\$5,727		\$15	\$9,185	\$640,432	\$33,496	\$58,452
Contract work	\$43,549					\$8,545	\$9,091			\$20,995		\$4,918
Cost of buildings, machinery, and equipment erected or installed during year	\$476,780	\$28,249	\$45,095	\$10,130	\$5,178	\$108,961	\$3,192	\$600	\$1,575	\$32,275	\$648	\$42,859
Buildings	\$145,625		\$3,477	\$1,275		\$58,509	\$3,192			\$61,125	\$217	\$17,828
Machinery and equipment	\$331,157	\$28,249	\$41,618	\$8,855	\$5,178	\$50,452		\$600	\$1,575	\$171,150	\$431	\$25,031
Horsepower rating of prime movers and electric motors driven by purchased energy, total	116,858	855	5,678	4,484	4,570	4,819	1,020	88	2,913	80,131	2,569	9,509
Prime movers	44,056	850	958	4,394	3,050	1,394	1,020	85	1,755	28,435	1,132	5,003
Electric motors driven by purchased energy	72,800	5	4,740	90	1,520	3,425		3	1,158	51,696	1,437	5,506
Horsepower rating of electric motors driven by energy generated by reporting companies	55,825			291	50					33,341	143	
Fuels consumed: ³												
Bituminous coal (tons of 2,000 pounds)	11,641	548	57	1,200	1,800	359			857	4,468	2,275	77
Fuel oils (barrels of 42 gallons)	490,282	340	1,686	12,290	26,795	6,221	397	80	1,132	399,448	325	41,567
Gasoline and kerosene (gallons)	601,975	46,415	28,870	81,942	32,771	46,404	38,851	560	45,030	145,185	14,019	111,950
Electric energy consumed (thousands of kw.-hrs.), total	128,516	2	1,912	536	1,977	2,471		1	353	113,335	2,222	5,507
Purchased	95,257	2	1,912	5	1,967	2,471		1	353	81,010	2,031	5,507
Generated by reporting companies	33,059			535	10					32,325	191	

¹ Broward, Escambia, Hillsborough, Lake, Monroe, Nassau, Orange, Pinellas, Sarasota, and Sumter.² Companies with operations in more than 1 county are counted only once in the totals.³ No anthracite or natural gas was reported consumed.

GEORGIA

Georgia ranked thirty-fifth among the States in value of products of mineral industries in 1939, and thirtieth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 82 percent of that in 1929, and the number of wage earners 95 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 190 percent of that in 1919, and the number of wage earners 144 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 128 percent of that in 1929, and 330 percent of that in 1919.

The kaolin and ball-clay industry ranked first among the mineral industries in the State in 1939, accounting for 46 percent of the total value of products and 52 percent of the total number of wage earners. (See table 2.) The granite industry

ranked second, accounting for 17 percent of the value of products for the State, and for 17 percent of the wage earners. The State produced over two-thirds of the output of kaolin in the kaolin and ball-clay industry in the United States. Georgia ranked first among all States, by value of products, in the kaolin and ball-clay industry; second in the fuller's-earth, barite, and kyanite, andalusite, and dumortierite industries; and third in the granite industry. (See reports for these industries.)

Other mineral industries in the State were bituminous coal, iron ore, gold, manganese ore, limestone, slate, marble, miscellaneous stone, common sand and gravel, common clay and shale, asbestos, mica, and talc and soapstone. Mineral operations were located in 41 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text refer to producing operations only; for information regarding contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN GEORGIA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1929	1929	1939 ¹	1919
Number of mines and quarries-----	106	95	86	87	82
Value of all products-----	\$8,076,645	\$7,808,262	\$9,611,219	\$7,733,180	\$4,064,652
Number of persons engaged, total-----	3,910	3,786	4,032	3,688	2,608
Wage earners (average for the year)-----	3,646	3,534	3,727	3,457	2,397
Salaried employees-----	224	222	274	209	178
Proprietors and firm members-----	40	40	31	32	33
Performing manual labor-----	17	17	(²)	17	4
Principal expenses designated below, total-----	\$5,075,750	\$4,951,785	\$5,758,494	\$4,825,516	\$3,355,053
Wages-----	\$2,257,395	\$2,187,560	\$2,944,216	\$2,139,253	\$2,017,460
Salaries-----	\$508,454	\$500,354	\$678,393	\$483,934	\$355,013
Supplies and materials-----	\$1,285,431	\$1,254,206	\$974,984	\$1,226,270	\$591,266
Fuel-----	\$577,029	\$557,799	\$545,873	\$536,711	\$296,647
Purchased electric energy-----	\$344,849	\$331,025	\$268,766	\$319,527	\$59,372
Contract work-----	\$129,602	\$121,021	\$348,259	\$119,821	\$5,295
Cost of machinery and equipment installed during year-----	\$1,079,373	\$1,075,885	\$187,744	\$1,057,974	(²)
Horsepower rating of power equipment, total-----	47,770	45,491	35,515	43,045	13,026
Per wage earner-----	13.1	12.9	9.5	12.5	5.4
Prime movers-----	20,653	19,562	18,292	18,076	9,502
Electric motors driven by purchased energy-----	26,917	25,929	17,223	24,969	3,524
Electric energy consumed (thousands of kw.-hrs.), total-----	51,740	50,420	25,945	29,749	(²)
Purchased-----	27,680	26,360	20,565	25,889	(²)
Generated by reporting companies-----	4,060	4,060	5,380	4,060	(²)

¹Includes 3 limestone quarries, with products valued at \$184,206, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

²Not available.

³Includes 30 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN GEORGIA, BY INDUSTRY: 1939

(For producing and contract-service operations only)¹

ITEM	All operations in all industries ¹	PRODUCING OPERATIONS						
		Total	Metallic ores			Stones ²		
			Iron ore	Gold ³	Manganese ore	Crushed and broken		Rough-dimension granite
						Limestone, slate, and miscellaneous ⁴	Granite	
Number of operating companies ⁵	98	92	4	4	4	8	5	12
Number of mines and quarries	106	106	4	4	4	12	5	16
Number of preparation plants	61	61	2	1	5	11	5	1
Value of all products ⁶	\$8,197,904	\$8,076,645	\$101,904	\$20,057	\$72,200	\$346,136	\$804,508	\$808,858
Number of persons engaged, total	3,950	7,910	69	27	42	222	248	395
Wage earners (average for the year)	3,674	3,646	65	21	35	195	229	381
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	3,328	3,300	15	31	19	174	207	376
February	3,560	3,532	30	22	20	185	202	361
March	3,407	3,378	30	16	19	180	225	362
April	3,606	3,578	64	20	34	264	224	368
May	3,732	3,707	89	22	35	257	255	368
June	3,687	3,660	84	21	35	217	223	390
July	3,782	3,749	82	20	34	187	225	386
August	3,722	3,693	81	21	48	146	223	375
September	3,682	3,653	90	20	44	162	235	395
October	3,662	3,634	90	12	46	175	253	373
November	3,668	3,641	70	20	46	162	252	368
December	3,654	3,628	55	23	41	220	246	355
Salaries employees	252	7,224	2	2	2	28	19	9
Proprietors and firm members	44	40	2	4	5	1		5
Performing manual labor	18	17	2	4	2	1		
Principal expenses designated below, total	\$5,142,489	\$5,075,750	\$55,051	\$20,070	\$38,226	\$387,256	\$495,531	\$441,225
Wages	\$2,278,600	\$2,257,585	\$4,956	\$12,006	\$25,792	\$158,844	\$171,269	\$255,971
Salaries	\$329,234	\$303,454	\$4,400	\$2,280	\$1,875	\$61,196	\$56,496	\$21,136
Supplies and materials	\$1,268,763	\$1,265,431	\$3,750	\$1,648	\$300	\$118,278	\$205,961	\$95,255
Fuel	\$586,950	\$577,029	\$6,725	\$4,126	\$6,600	\$23,039	\$18,307	\$12,522
Purchased electric energy	\$348,290	\$344,849			\$1,559	\$25,897	\$45,608	\$46,971
Contract work	\$128,602	\$129,602	\$5,200					\$4,370
Cost of buildings, machinery, and equipment erected or installed during year	\$1,519,328	\$1,519,528	\$45,800	\$840	\$12,252	\$23,767	\$39,865	\$40,486
Buildings	\$259,955	\$239,955	\$12,500	\$29	\$2,000	\$2,510	\$17,480	\$14,502
Machinery and equipment, total	\$1,079,373	\$1,079,573	\$33,300	\$811	\$10,252	\$21,257	\$22,375	\$25,984
Purchased in new condition	\$996,997	\$996,997	\$18,300	\$717	\$7,574	\$17,705	\$22,375	\$8,196
Purchased in used condition	\$82,376	\$82,576	\$15,000	\$94	\$2,578	\$5,552		\$17,788
Number of man-hours worked by wage earners	7,439,558	7,372,546	115,450	59,101	76,075	401,577	503,991	751,809
Average hourly earning of wage earners	\$0.51	\$0.51	\$0.50	\$0.31	\$0.54	\$0.40	\$0.34	\$0.35
Horsepower rating of prime movers and electric motors driven by purchased energy, total	49,206	47,770	410	665	598	4,744	4,554	5,144
Per wage earner	13.4	15.1	6.3	31.7	11.4	24.6	19.9	13.5
Prime movers	21,929	20,853	410	665	254	1,683	360	1,366
Electric motors driven by purchased energy	27,279	26,917			144	3,061	4,194	5,758
Horsepower rating of electric motors driven by energy generated by reporting companies	2,051	2,051				708		120
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	4,044	4,044					24	1,540
Situminous coal (tons of 2,000 pounds)	28,243	28,243	25			2,114	1,059	828
Fuel oils (barrels of 42 gallons)	61,281	61,281			800	602	114	20,628
Gasoline and kerosene (gallons)	648,289	648,289	33,250	22,979	35,250	59,962	72,318	12,761
Natural gas (thousands of cubic feet)	1,192,913	1,192,913						
Electric energy consumed (thousands of kw.-hrs.), total	31,740	31,740			53	1,866	2,677	2,859
Purchased	27,680	27,680			53	1,487	2,677	2,824
Generated by reporting companies	4,060	4,060				379		15

¹ Nonproducing bauxite mine was reported but is not covered in the table to avoid disclosure of confidential information.² Represents 1 mine and 1 mill in the lode-gold industry and 5 placer-gold mines.³ Represents 10 mines and quarries and 10 crushing plants in the crushed and broken limestone industry, 1 mine and 1 crushing plant in the crushed and broken slate industry, and 1 crushed and broken miscellaneous stone quarry.⁴ Rough-dimension marble quarry is included with "All other" industries to avoid disclosure of confidential information.⁵ Companies with operations in more than 1 industry are counted only once in the totals.⁶ Includes amounts received or due for contract services performed during the year.⁷ Includes statistics for central-office employees in the phosphate-rock industry.⁸ Contract-service operators were not asked to report expenditures for contract work.⁹ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN GEORGIA, BY INDUSTRY: 1939—Continued

(For producing and contract-service operations only)¹

ITEM	PRODUCING OPERATIONS—Continued							Contract-service operations ¹¹
	Common sand and gravel	Clay and shale			Barite	Talc and soapstone	All other ¹⁰	
		Kaolin and ball clay	Common clay and shale	Fuller's earth				
Number of operating companies ⁵ -----	6	19	11	3	7	4	6	4
Number of mines and quarries-----	8	21	11	3	7	5	7	-----
Number of preparation plants-----	8	12	2	3	7	3	3	-----
Value of all products ⁶ -----	\$175,082	\$3,697,436	\$168,383	\$814,487	\$494,387	\$168,026	\$505,181	\$121,258
Number of persons engaged, total-----	98	1,970	114	168	199	104	251	40
Wage earners (average for the year)-----	77	1,882	112	144	183	86	239	28
Number receiving pay during pay-roll period ending nearest the 15th of:								
January-----	85	1,772	102	151	147	75	144	28
February-----	67	1,784	101	142	173	66	159	28
March-----	67	1,817	103	133	174	71	151	28
April-----	72	1,789	106	138	188	70	223	28
May-----	77	1,859	105	148	186	86	244	28
June-----	71	1,827	119	133	189	83	268	27
July-----	74	1,911	117	146	204	89	272	33
August-----	70	1,904	115	145	190	94	281	29
September-----	77	1,966	117	143	184	103	297	29
October-----	81	1,959	122	149	185	97	287	29
November-----	96	1,994	123	154	193	98	287	27
December-----	81	1,985	120	149	168	98	266	26
Salaried employees-----	13	83	2	24	12	13	10	8
Proprietors and firm members-----	6	5	-----	-----	4	5	3	4
Performing manual labor-----	1	1	-----	-----	1	5	1	1
Principal expenses designated below, total-----	\$126,248	\$2,270,248	\$125,985	\$446,821	\$308,888	\$112,940	\$235,298	\$66,759
Wages-----	\$48,107	\$1,032,153	\$70,025	\$95,108	\$129,651	\$50,972	\$162,531	\$22,215
Salaries-----	\$16,420	\$188,051	\$3,100	\$59,139	\$37,930	\$17,806	\$17,751	\$25,880
Supplies and materials-----	\$27,936	\$538,903	\$9,225	\$137,043	\$74,764	\$30,301	\$31,877	\$5,332
Fuel-----	\$21,088	\$355,470	\$19,230	\$55,999	\$33,973	\$3,008	\$7,922	\$9,921
Purchased electric energy-----	\$11,498	\$120,579	\$13,824	\$36,351	\$20,967	\$9,388	\$15,207	\$3,441
Contract work-----	\$1,200	\$35,092	\$8,581	\$9,181	\$9,613	\$2,365	-----	(12)
Cost of buildings, machinery, and equipment erected or installed during year-----	\$23,335	\$1,026,666	\$5,488	\$41,268	\$24,335	\$693	\$34,533	-----
Buildings-----	\$7,424	\$178,242	-----	\$88	\$4,258	-----	\$912	-----
Machinery and equipment, total-----	\$15,911	\$848,424	\$5,488	\$41,180	\$20,077	\$693	\$33,621	-----
Purchased in new condition-----	\$12,406	\$625,988	\$2,978	\$41,180	\$16,042	\$693	\$22,743	-----
Purchased in used condition-----	\$3,505	\$22,436	\$2,510	-----	\$4,035	-----	\$10,878	-----
Number of man-hours worked by wage earners-----	170,858	3,799,315	232,992	269,435	401,791	174,678	436,215	67,012
Average hourly earning of wage earners-----	\$0.28	\$0.27	\$0.30	\$0.33	\$0.32	\$0.29	\$0.37	\$0.33
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	2,446	13,013	2,279	5,484	3,354	932	4,327	1,438
Per wage earner-----	31.8	6.9	20.3	38.1	18.3	11.1	18.2	51.4
Prime movers-----	1,486	6,178	1,281	3,205	2,191	380	1,564	1,076
Electric motors driven by purchased energy-----	960	6,835	998	2,279	1,163	552	2,975	362
Horsepower rating of electric motors driven by energy generated by reporting companies-----	-----	1,200	-----	-----	-----	-----	28	-----
Fuels consumed:								
Anthracite (tons of 2,000 pounds)-----	-----	2,192	-----	-----	188	-----	-----	(12)
Bituminous coal (tons of 2,000 pounds)-----	-----	18,352	3,646	589	579	-----	1,271	(12)
Fuel oils (barrels of 42 gallons)-----	889	5,391	-----	29,102	3,910	-----	65	(12)
Gasoline and kerosene (gallons)-----	81,892	162,803	13,957	921	113,948	28,694	11,735	(12)
Natural gas (thousands of cubic feet)-----	-----	1,159,517	-----	26,256	7,340	-----	-----	(12)
Electric energy consumed (thousands of kw.-hrs.), total-----	671	15,043	1,320	3,487	1,744	428	1,802	(12)
Purchased-----	671	11,380	1,320	3,487	1,744	428	1,588	(12)
Generated by reporting companies-----	-----	3,663	-----	-----	-----	-----	5	(12)

¹¹ nonproducing bauxite mine was reported but is not covered in the table to avoid disclosure of confidential information.⁵ Companies with operations in more than 1 industry are counted only once in the totals.⁶ Includes amounts received or due for contract services performed during the year.⁷ Contract-service operators were not asked to report expenditures for contract work.¹⁰ Represents 2 bituminous-coal mines, 1 rough-dimension marble quarry, 1 mine and 1 mill in the asbestos industry, 2 mines and 2 preparation plants in the kyanite, andalusite, and dumortierite industry, and 1 mica mine.¹¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.¹² Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN GEORGIA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Bartow	Bibb	De Kalb	Elbert	Murray	Pickens
Number of operating companies ¹	92	16	4	5	7	3	4
Number of mines and quarries	106	15	4	5	9	3	4
Number of preparation plants	61	13	2	5	—	3	1
Value of all products	\$9,076,645	\$734,533	\$248,958	\$453,601	\$402,887	\$158,586	\$428,036
Number of persons engaged, total	3,910	355	71	186	235	90	133
Wage earners (average for the year)	3,646	306	65	174	225	77	129
Salaried employees	224	20	6	12	6	15	1
Proprietors and firm members	40	9	—	—	3	—	3
Performing manual labor	17	3	—	—	—	—	5
Principal expenses designated below, total	\$5,075,750	\$253,023	\$122,449	\$286,619	\$298,456	\$106,355	\$142,470
Wages	\$2,257,385	\$210,630	\$38,059	\$123,955	\$172,280	\$45,657	\$88,598
Salaries	\$505,454	\$51,310	\$12,360	\$37,668	\$15,991	\$17,906	\$2,100
Supplies and materials	\$1,265,431	\$16,190	\$95,546	\$58,846	\$29,871	\$28,970	\$28,970
Fuel	\$577,029	\$1,063	\$21,028	\$12,489	\$9,453	\$2,168	\$9,600
Purchased electric energy	\$344,849	—	\$14,233	\$16,861	\$35,556	\$8,586	\$15,207
Contract work	\$129,602	—	\$20,581	—	\$4,370	\$2,365	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,319,328	\$5,890	\$5,078	\$20,275	\$32,486	\$893	\$11,792
Buildings	\$259,955	—	—	\$10,990	\$13,002	—	\$284
Machinery and equipment	\$1,079,373	\$5,890	\$5,078	\$9,285	\$19,484	\$893	\$11,508
Horsepower rating of prime movers and electric motors driven by purchased energy, total	47,770	3,048	1,594	2,913	3,060	652	4,208
Prime movers	20,858	183	564	929	320	80	1,255
Electric motors driven by purchased energy	26,917	2,865	1,030	1,984	2,740	572	2,973
Horsepower rating of electric motors driven by energy generated by reporting companies	2,051	—	—	120	—	—	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	4,044	189	—	24	1,640	—	—
Bituminous coal (tons of 2,000 pounds)	28,243	624	806	732	96	—	1,595
Fuel oils (barrels of 42 gallons)	61,281	4,798	3,890	19,865	258	—	60
Gasoline and kerosene (gallons)	548,269	190,728	7,156	41,060	2,906	20,646	8,117
Natural gas (thousands of cubic feet)	1,192,913	7,340	62,689	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	31,740	2,290	1,117	879	2,171	428	1,599
Purchased	27,680	2,290	1,117	864	2,171	428	1,599
Generated by reporting companies	4,060	—	—	15	—	—	—

ITEM	Richmond	Twiggs	Walker	Washington	White	Wilkinson	All other ²
Number of operating companies ¹	5	4	3	3	3	8	34
Number of mines and quarries	5	4	3	3	3	8	40
Number of preparation plants	3	4	1	5	—	4	24
Value of all products	\$244,706	\$1,067,207	\$112,511	\$375,161	\$11,349	\$1,958,154	\$1,680,996
Number of persons engaged, total	149	525	111	237	10	1,087	741
Wage earners (average for the year)	139	491	107	225	5	1,050	652
Salaried employees	8	33	2	12	2	33	76
Proprietors and firm members	2	1	2	—	3	4	13
Performing manual labor	—	—	2	—	3	1	5
Principal expenses designated below, total	\$151,887	\$673,159	\$79,519	\$253,721	\$7,171	\$1,249,185	\$1,463,759
Wages	\$85,441	\$297,692	\$67,009	\$105,471	\$2,989	\$575,015	\$448,614
Salaries	\$13,280	\$67,228	\$2,715	\$20,531	\$2,280	\$58,565	\$171,442
Supplies and materials	\$16,497	\$166,963	\$3,127	\$36,852	\$902	\$327,300	\$461,467
Fuel	\$20,757	\$35,437	\$3,668	\$30,983	\$1,000	\$223,519	\$155,846
Purchased electric energy	\$17,812	\$56,856	—	\$21,192	—	\$32,488	\$127,196
Contract work	—	—	—	\$18,582	—	\$4,500	\$79,194
Cost of buildings, machinery, and equipment erected or installed during year	\$12,146	\$577,926	\$4,914	\$314,482	\$840	\$126,920	\$206,536
Buildings	\$3,984	\$77,986	—	\$75,053	\$29	\$27,311	\$33,596
Machinery and equipment	\$8,222	\$499,940	\$4,914	\$241,449	\$811	\$99,609	\$172,940
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,683	5,225	221	2,225	505	4,410	17,827
Prime movers	750	1,126	221	1,180	505	3,227	10,533
Electric motors driven by purchased energy	1,133	4,100	—	1,045	—	1,183	7,294
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	—	—	1,200	731
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	2,136	—	—	—	—	56
Bituminous coal (tons of 2,000 pounds)	2,287	95	376	5,945	—	11,805	4,062
Fuel oils (barrels of 42 gallons)	614	194	194	184	—	857	30,667
Gasoline and kerosene (gallons)	39,572	98,274	9,720	20,696	5,558	37,734	166,139
Natural gas (thousands of cubic feet)	—	254,696	—	—	—	868,159	—
Electric energy consumed (thousands of kw.-hrs.), total	1,456	5,780	—	1,881	—	6,507	7,650
Purchased	1,456	5,780	—	1,881	—	2,844	7,248
Generated by reporting companies	—	—	—	—	—	3,663	382

¹ Companies with operations in more than 1 county are counted only once in the totals.² Baldwin, Blackley, Cherokee, Clarke, Columbia, Crawford, Dade, Decatur, Floyd, Fulton, Gilmer, Glascock, Gordon, Habersham, Hall, Hancock, Henry, Houston, McDuffie, Madison, Muscogee, Oglethorpe, Polk, Rabun, Talbot, Taylor, Thomas, Warren, Whitfield, and central offices in Chatham County.

IDAHO

Idaho ranked twenty-eighth among the States in both value of products of mineral industries in 1939 and number of wage earners employed.¹ (See table 2, General Summary.) The value of products for the State in 1939 was 106 percent of that in 1929, and the number of wage earners 106 percent. (See table 1.) Compared with 1919, the 1939 value of products was 185 percent of that in 1919 and the number of wage earners 185 percent. Total horsepower rating of power equipment at mineral operations in 1929 was 116 percent of that in 1929, and 249 percent of the 1919 total.

The lead-ore industry ranked first among the mineral industries in the State in 1939, accounting for 42 percent of the total value of products and 51 percent of the total number

of wage earners. (See table 2.) The silver-ore industry, which ranked second, accounted for 28 percent of the total value of products and 19 percent of the wage earners. The State accounted for 29 percent of the value of products of the lead-ore industry in the United States and for 31 percent of the value of products of the silver-ore industry. Idaho ranked first among all States, by value of products, in the silver-ore industry, and second in the lead-ore industry. (See reports for these industries.)

Other mineral industries in the State were bituminous coal, gold, copper ore, zinc ore, mercury, tungsten ore, limestone, common sand and gravel, fire clay, and phosphate rock. Mineral operations were located in 23 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN IDAHO: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939, 1929, AND 1919		
	(All industries)		
	1939 ^{1,2}	1929 ¹	1919
Number of mines and quarries-----	105	65	85
Value of all products-----	\$21,917,550	\$20,745,615	\$11,840,301
Number of persons engaged, total-----	4,989	4,505	2,769
Wage earners (average for the year)-----	4,550	4,226	2,455
Salaried employees-----	384	257	221
Proprietors and firm members-----	55	22	85
Performing manual labor-----	58	(³)	52
Principal expenses designated below, total-----	\$12,267,365	\$12,710,684	\$7,473,386
Wages-----	\$6,656,517	\$7,420,255	\$4,201,624
Salaries-----	\$1,043,779	\$688,870	\$538,071
Supplies and materials-----	\$3,202,246	\$3,486,590	\$2,026,256
Fuel-----	\$256,804	\$166,718	\$159,294
Purchased electric energy-----	\$802,374	\$844,304	\$554,484
Contract work-----	\$45,845	\$124,127	\$193,657
Cost of machinery and equipment installed during year-----	\$745,751	\$895,596	(³)
Horsepower rating of power equipment, total-----	77,816	67,295	31,259
Per wage earner-----	17.1	15.9	12.7
Prime movers-----	20,688	9,079	2,811
Electric motors driven by purchased energy-----	57,148	58,216	⁴ 28,428
Electric energy consumed (thousands of kw.-hrs.), total-----	124,582	129,166	(³)
Purchased-----	115,164	119,815	(³)
Generated by reporting companies-----	9,198	9,351	(³)

¹ Includes 1 mine and 1 preparation plant in the common sand and gravel industry. This industry was not included in the census of mineral industries for 1919.

² Includes 3 limestone quarries operated in conjunction with cement plants. No such quarries were reported for 1929 and such quarries were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 180 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IDAHO, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS				
		Total	Metallic ores			
			Gold		Silver ore	Lead ore
			Lode	Placer		
Number of operating companies ¹	108	98	36	23	9	13
Number of mines and quarries	111	105	55	27	8	18
Number of preparation plants	49	48	25	—	5	8
Value of all products ²	\$22,001,345	\$21,917,550	\$1,804,198	\$1,596,951	\$6,104,451	\$9,198,146
Number of persons engaged, total	5,108	4,989	810	240	939	2,522
Wage earners (average for the year)	4,554	4,550	524	200	872	2,355
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	4,275	4,196	470	85	856	2,251
February	4,287	4,197	451	99	868	2,255
March	4,278	4,210	440	181	865	2,266
April	4,559	4,265	486	185	866	2,242
May	4,409	4,524	515	239	858	2,221
June	4,475	4,585	550	235	845	2,268
July	4,594	4,487	575	242	825	2,513
August	4,722	4,589	573	224	847	2,421
September	4,974	4,751	606	266	858	2,410
October	5,131	4,991	580	285	901	2,424
November	5,271	5,138	544	215	936	2,464
December	5,225	5,109	509	200	944	2,491
Salaried employees	395	384	68	27	64	182
Proprietors and firm members	59	55	18	15	5	5
Performing manual labor	41	58	16	6	5	4
Principal expenses designated below, total	³ \$12,582,645	\$12,267,385	\$1,308,144	\$685,940	\$2,582,045	\$6,148,581
Wages	\$7,086,511	\$6,936,517	\$681,755	\$341,788	\$1,515,881	\$5,524,813
Salaries	\$1,059,429	\$1,043,779	\$124,040	\$60,148	\$194,162	\$557,860
Supplies and materials	\$5,275,180	\$5,202,246	\$409,875	\$158,121	\$711,485	\$1,495,565
Fuel	\$245,909	\$236,804	\$89,827	\$52,862	\$15,518	\$87,007
Purchased electric energy	\$614,571	\$602,674	\$20,043	\$68,275	\$148,827	\$498,084
Contract work	⁴ \$101,445	\$45,845	\$2,506	\$9,868	\$1,172	\$5,482
Cost of buildings, machinery, and equipment erected or installed during year	\$914,281	\$865,786	\$268,510	\$258,951	\$52,925	\$187,071
Buildings	\$145,050	\$118,035	\$56,887	\$4,117	\$9,499	\$7,845
Machinery and equipment, total	\$771,251	\$745,751	\$211,623	\$254,834	\$43,426	\$159,226
Purchased in new condition	\$659,484	\$613,984	\$128,780	\$205,219	\$29,224	\$157,909
Purchased in used condition	\$131,767	\$131,767	\$82,895	\$28,615	\$14,202	\$1,317
Number of man-hours worked by wage earners	9,752,750	9,507,192	1,252,084	527,586	1,794,192	4,751,555
Average hourly earning of wage earners	\$0.75	\$0.73	\$0.55	\$0.65	\$0.84	\$0.74
Horsepower rating of prime movers and electric motors driven by purchased energy, total	82,807	77,816	7,139	7,605	9,221	45,940
Per wage earner	17.8	17.1	13.6	38.0	10.6	18.8
Prime movers	21,855	20,668	6,453	5,451	649	4,955
Electric motors driven by purchased energy	60,974	57,148	706	2,152	8,572	38,985
Horsepower rating of electric motors driven by energy generated by reporting companies	6,402	6,402	2,562	421	2,558	464
Fuels consumed, ⁵						
Anthracite (tons of 2,000 pounds)	⁶ 84	84	24	—	8	52
Bituminous coal (tons of 2,000 pounds)	⁶ 8,249	8,201	211	15	1,457	4,971
Fuel oils (barrels of 42 gallons)	⁶ 26,929	26,594	11,199	5,286	348	4,556
Gasoline and kerosene (gallons)	⁶ 272,811	267,182	64,502	112,288	19,845	47,222
Electric energy consumed (thousands of kw.-hrs.), total	⁴ 124,944	124,562	8,357	5,605	22,537	79,842
Purchased	⁴ 115,746	115,164	1,532	5,287	22,146	78,677
Generated by reporting companies	⁴ 9,198	9,198	6,825	516	191	965

¹ Companies with operations in more than 1 industry are counted only once in the totals.² Includes amounts received or due for contract services performed during the year.³ Contract-service operators were not asked to report expenditures for contract work.⁴ Excludes statistics for contract-service operations.⁵ No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IDAHO, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued				Contract-service operations ⁶	Nonproducing operations
	Metallic ores—Continued		Crushed and broken limestone	All other ⁷		
	Zinc ore	Copper ore, mercury, and tungsten ore ⁸				
Number of operating companies ¹ -----	9	4	3	4	5	6
Number of mines and quarries-----	8	5	4	4	-----	6
Number of preparation plants-----	3	2	4	2	-----	1
Value of all products ² -----	\$2,308,171	\$370,411	\$29,907	\$505,295	\$85,813	-----
Number of persons engaged, total-----	448	107	11	112	40	79
Wage earners (average for the year)-----	413	102	11	95	35	69
Number receiving pay during pay-roll period ending nearest the 15th of:						
January-----	379	70	4	81	18	61
February-----	371	71	1	85	17	53
March-----	352	69	2	87	19	49
April-----	314	70	4	88	20	54
May-----	321	75	8	89	16	69
June-----	313	92	13	95	24	66
July-----	297	100	15	100	49	68
August-----	306	104	11	105	50	85
September-----	349	125	19	100	49	94
October-----	542	145	20	98	57	85
November-----	706	148	24	101	54	79
December-----	704	155	11	95	47	69
Salaried employees-----	24	5	-----	14	1	10
Proprietors and firm members-----	11	-----	-----	5	4	-----
Performing manual labor-----	4	-----	-----	5	3	-----
Principal expenses designated below, total-----	\$1,082,556	\$205,082	\$17,209	\$277,850	³ \$84,242	\$221,038
Wages-----	\$618,755	\$125,052	\$10,764	\$121,789	\$58,110	\$91,884
Salaries-----	\$58,857	\$15,425	-----	\$54,287	\$250	\$15,400
Supplies and materials-----	\$306,988	\$42,920	\$2,650	\$94,546	\$28,160	\$46,774
Fuel-----	\$2,295	\$20,950	\$2,517	\$6,028	\$6,080	\$3,025
Purchased electric energy-----	\$54,719	-----	\$1,278	\$21,200	\$3,842	\$9,555
Contract work-----	\$24,982	\$1,755	-----	-----	(no)	\$55,600
Cost of buildings, machinery, and equipment erected or installed during year-----	\$75,509	\$55,355	-----	\$5,467	-----	\$50,495
Buildings-----	\$18,034	\$21,555	-----	\$500	-----	\$24,985
Machinery and equipment, total-----	\$57,475	\$34,000	-----	\$5,187	-----	\$25,500
Purchased in new condition-----	\$52,735	\$34,000	-----	\$5,187	-----	\$25,500
Purchased in used condition-----	\$4,740	-----	-----	-----	-----	-----
Number of man-hours worked by wage earners-----	819,289	210,076	15,378	177,456	77,810	187,728
Average hourly earning of wage earners-----	\$0.75	\$0.59	\$0.70	\$0.89	\$0.75	\$0.55
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	6,228	1,224	612	1,849	5,878	1,513
Per wage earner-----	15.1	12.0	55.6	19.9	105.1	19.0
Prime movers-----	1,549	1,224	544	255	710	455
Electric motors driven by purchased energy-----	4,879	-----	268	1,588	2,968	858
Horsepower rating of electric motors driven by energy generated by reporting companies-----	291	106	-----	-----	-----	-----
Fuels consumed: ⁵						
Anthracite (tons of 2,000 pounds)-----	-----	-----	-----	-----	(no)	-----
Bituminous coal (tons of 2,000 pounds)-----	337	428	115	791	(no)	48
Fuel oils (barrels of 42 gallons)-----	-----	4,263	70	70	(no)	355
Gasoline and kerosene (gallons)-----	-----	5,295	8,654	9,578	(no)	5,629
Electric energy consumed (thousands of kw.-hrs.), total-----	6,460	342	47	1,574	(no)	582
Purchased-----	5,901	-----	47	1,574	(no)	582
Generated by reporting companies-----	559	342	-----	-----	(no)	-----

¹ Companies with operations in more than 1 industry are counted only once in the totals.² Includes amounts received or due for contract services performed during the year.³ Contract-service operators were not asked to report expenditures for contract work.⁴ No natural gas was consumed; contract-service operators were not asked to report fuels consumed.⁵ Represents 1 copper-ore mine, 1 mine operating in conjunction with furnaces or retorts in the mercury industry, and 1 mine and 1 mill in the tungsten-ore industry.⁶ Represents 1 bituminous-coal mine, 1 mine and 1 preparation plant in the common sand and gravel industry, 1 fire-clay mine, and 1 mine and 1 preparation plant in the phosphate-rock industry.⁷ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.⁸ Represents 5 mines and 1 mill in the lode-gold industry, 1 silver-ore mine, 1 lead-ore mine, and 1 zinc-ore mine.⁹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IDAHO, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Blaine	Boise	Bonner	Clear-water	Custer	Elmore	Idaho	Leahli	Owyhee	Shoshone	All other ¹
Number of operating companies ²	98	5	9	3	5	7	5	19	9	5	21	16
Number of mines and quarries	105	3	9	5	4	7	5	21	9	4	25	18
Number of preparation plants	48	1	4	2	5	1	2	7	6	1	13	8
Value of all products	\$21,917,550	\$1,716,525	\$745,410	\$75,152	\$77,076	\$251,109	\$428,250	\$1,191,181	\$482,541	\$557,287	\$15,594,108	\$1,021,298
Number of persons engaged, total	4,989	282	149	36	17	80	165	255	182	65	5,525	235
Wage earners (average for the year)	4,550	259	151	28	14	70	140	219	187	51	5,272	199
Salaried employees	384	19	13	5	3	7	23	21	12	12	239	30
Proprietors and firm members	55	4	5	3	—	3	2	15	3	—	14	6
Performing manual labor	38	4	1	5	—	3	2	11	2	—	7	5
Principal expenses designated below, total	\$12,267,565	\$645,227	\$412,509	\$88,564	\$5,951	\$147,450	\$516,265	\$580,017	\$372,052	\$188,071	\$8,957,156	\$586,305
Wages	\$6,956,517	\$363,739	\$211,263	\$55,707	\$19,372	\$79,081	\$168,976	\$327,459	\$206,705	\$85,276	\$5,174,259	\$266,479
Salaries	\$1,045,779	\$45,871	\$25,382	\$8,515	\$5,800	\$15,628	\$40,450	\$46,222	\$51,044	\$17,257	\$742,950	\$66,662
Supplies and materials	\$5,202,246	\$196,609	\$121,087	\$11,829	\$4,047	\$58,190	\$87,765	\$127,097	\$105,574	\$38,401	\$2,274,959	\$188,928
Fuel	\$238,804	\$282	\$7,970	\$978	\$7,599	\$9,362	\$14,440	\$55,852	\$29,918	\$10,974	\$71,909	\$29,620
Purchased electric energy	\$802,574	\$29,014	\$45,059	\$11,424	\$1,155	\$4,634	\$15,850	\$810	\$16,263	—	\$656,142	\$22,045
Contract work	\$45,845	\$9,712	\$1,568	\$511	—	\$5,171	—	\$9,557	—	—	\$16,957	\$2,589
Cost of buildings, machinery, and equipment erected or installed during year	\$885,786	\$12,547	\$52,864	\$5,191	\$90,456	\$5,451	\$85,845	\$185,751	\$45,889	\$16,605	\$269,182	\$156,027
Buildings	\$118,035	\$6,047	\$6,647	\$486	\$629	\$1,200	\$11,884	\$17,147	\$13,417	\$5,127	\$50,024	\$27,447
Machinery and equipment	\$745,751	\$6,500	\$26,217	\$2,705	\$89,827	\$4,251	\$51,961	\$168,594	\$32,472	\$11,478	\$219,158	\$108,580
Horsepower rating of prime movers and electric motors driven by purchased energy, total	77,816	975	2,558	755	854	1,840	842	4,728	2,065	1,789	56,841	4,793
Prime movers	20,688	398	1,227	147	586	1,840	722	4,025	2,003	1,204	5,588	5,148
Electric motors driven by purchased energy	57,148	575	1,551	598	268	—	120	703	60	585	51,275	1,645
Horsepower rating of electric motors driven by energy generated by reporting companies	6,402	20	—	—	—	380	180	1,225	553	—	2,935	1,111
Fuels consumed: ³												
Anthracite (tons of 2,000 pounds)	84	—	—	—	—	8	—	24	—	—	52	—
Bituminous coal (tons of 2,000 pounds)	8,201	—	—	—	113	453	64	—	150	—	6,807	854
Fuel oils (barrels of 42 gallons)	26,594	—	194	8	1,255	1,148	2,829	8,155	5,440	1,395	2,253	5,897
Gasoline and kerosene (gallons)	287,182	—	30,993	4,610	14,278	12,062	5,774	66,097	17,359	14,986	61,946	41,078
Electric energy consumed (thousands of kw.-hrs.), total	124,562	1,817	5,712	844	29	70	1,575	3,532	864	1,534	105,724	4,661
Purchased	115,164	1,801	5,712	844	29	—	251	1,265	82	1,534	104,079	1,619
Generated by reporting companies	9,198	16	—	—	—	70	1,324	2,269	832	—	1,645	5,042

¹ Ada, Adams, Bannock, Boundary, Camas, Canyon, Caribou, Gem, Kootenai, Latah, Teton, Valley, Washington, and central offices in Nez Perce County.² Companies with operations in more than 1 county are counted only once in the totals.³ No natural gas was reported consumed.

ILLINOIS

Illinois ranked sixth among the States in value of products of mineral industries in 1939 and fourth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 68 percent of that in 1929, and the number of wage earners 64 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 102 percent of that in 1919, but the number of wage earners was only 49 percent. Differences between totals for 1939 and 1929 are accounted for chiefly by decreases in both value of products and wage earners for the bituminous-coal industry. The decline in wage earners between 1919 and 1939 was also accounted for chiefly by the bituminous-coal industry, but the decline in value of products of that industry between the two years was more than compensated for by the increased value of products of the crude-petroleum and natural-gas industry, which more than tripled over the period. Total horsepower rating of power equipment at mineral operations in 1939 was 144 percent of the 1929 figure, and 217 percent of that for 1919.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

The crude-petroleum and natural-gas industry ranked first in value of products among the mineral industries in the State in 1939, accounting for 52 percent of the total value of products; but this industry employed only 13 percent of the wage earners in the State. (See table 2.) The bituminous-coal industry ranked second in value of products, with 41 percent of the State total, but employed 78 percent of the total number of wage earners. The State accounted for 11 percent of the value of products of the bituminous-coal industry in the United States, 7 percent of the value of products of the crude-petroleum and natural-gas industry, and 44 percent of the total for the fluorspar industry. Illinois ranked second among all States, by value of products, in the glass-sand, fluorspar, and tripoli industries; third in the bituminous-coal and foundry-sand industries; and fifth in the crude-petroleum and natural-gas industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, limestone, miscellaneous stone, common sand and gravel, fire clay, common clay and shale, and fuller's earth. Mineral operations (other than oil and gas wells) were located in 82 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929		1939 AND 1919	
		(Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, and rock-salt industries)		(Excluding the common clay and shale, common sand and gravel, foundry-sand, and rock-salt industries)	
		1939	1929	1939 ¹	1919
Number of mines and quarries-----	765	747	562	655	590
Number of oil and gas wells producing at end of year-----	16,961	-----	-----	16,961	16,498
Number of natural-gasoline plants-----	53	-----	-----	53	72
Value of all products-----	\$187,218,685	\$69,953,020	\$132,948,261	\$182,045,023	\$178,581,408
Number of persons engaged, total-----	44,724	37,815	56,392	45,599	84,509
Wage earners (average for the year)-----	39,820	34,350	53,378	38,804	79,123
Salaried employees-----	2,971	2,848	2,711	3,614	4,495
Proprietors and firm members-----	855	615	303	781	691
Performing manual labor-----	465	430	(²)	430	128
Principal expenses designated below, total-----	\$102,601,255	\$66,073,630	\$100,633,597	\$99,774,155	\$129,254,497
Wages-----	\$47,440,758	\$39,145,847	\$73,777,064	\$45,997,956	\$94,178,504
Salaries-----	\$9,773,407	\$7,388,675	\$6,741,951	\$6,320,598	\$10,125,888
Supplies and materials-----	\$17,529,269	\$13,857,411	\$14,870,664	\$16,989,991	\$18,716,093
Fuel-----	\$2,508,509	\$1,776,452	\$2,461,224	\$1,991,572	\$4,810,013
Purchased electric energy-----	\$3,783,613	\$3,617,604	\$3,409,809	\$3,447,219	\$974,488
Contract work-----	\$22,070,889	\$287,841	\$272,685	\$22,027,019	\$451,555
Cost of machinery and equipment installed during year-----	\$18,794,543	\$3,279,779	\$8,259,736	\$18,809,397	(²)
Horsepower rating of power equipment, total-----	737,958	635,511	439,462	691,740	518,251
Per wage earner-----	18.5	18.4	8.2	17.8	4.0
Prime movers-----	400,024	503,186	184,273	375,773	261,954
Electric motors driven by purchased energy-----	337,934	530,185	255,189	315,967	³ 58,297
Electric energy consumed (thousands of kw.-hrs.), total-----	335,190	321,610	225,822	317,058	(²)
Purchased-----	238,628	229,069	184,265	220,591	(²)
Generated by reporting companies-----	96,564	92,541	41,557	96,467	(²)

¹ Includes 1 mine and 1 preparation plant in the glass-sand industry. Also includes 9 limestone mines and quarries, with products valued at \$647,587, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

² Not available.

³ Includes 30 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS					
		Total	Fuels			Stones	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Crushed and broken limestones	Other ¹
Number of operating companies ²	1,200	1,006	277	22	528	65	3
Number of mines and quarries.....	788	785			546	71	3
Number of oil and gas wells producing on December 31, 1939.....	16,981	16,981	16,981				
Number of preparation plants.....	287	287		55	45	70	2
Value of all products ³	\$212,706,866	\$187,218,895	\$96,616,028	\$287,556	\$76,865,708	\$4,800,806	\$219,752
Number of persons engaged, total.....	50,514	44,724	6,655	73	55,907	1,806	123
Wage earners (average for the year).....	44,777	59,920	5,229	89	81,013	1,408	121
Number receiving pay during pay-roll period ending nearest the 15th of:							
January.....	49,187	44,912	4,957	45	57,555	1,023	41
February.....	48,450	44,257	4,929	58	56,806	950	55
March.....	48,228	45,980	4,964	70	55,990	1,197	92
April.....	41,832	57,416	5,057	70	29,022	1,289	120
May.....	45,599	58,482	5,271	68	29,294	1,442	213
June.....	54,634	50,026	5,547	75	20,569	1,577	256
July.....	56,475	51,485	5,464	71	21,973	1,482	270
August.....	41,458	56,491	5,588	78	28,792	1,608	237
September.....	45,484	40,407	5,271	82	30,750	1,739	73
October.....	49,220	48,796	5,606	84	34,187	1,637	38
November.....	50,272	44,703	5,554	70	35,504	1,595	40
December.....	48,737	45,129	5,541	97	34,107	1,584	55
Salaried employees.....	4,490	45,971	1,108	4	2,395	152	5
Proprietors and firm members.....	1,047	835	216		499	45	
Performing manual labor.....	528	455	25		376	21	
Principal expenses designated below, total.....	\$111,874,745	\$102,901,255	\$56,587,815	\$127,617	\$57,896,068	\$5,176,141	\$174,071
Wages.....	\$54,632,528	\$47,440,788	\$8,051,009	\$82,158	\$35,208,157	\$1,615,058	\$157,145
Salaries.....	\$11,126,888	\$8,775,407	\$2,354,864	\$7,857	\$6,185,819	\$380,817	\$9,600
Supplies and materials.....	\$17,587,288	\$17,529,269	\$8,609,171	\$25,645	\$12,351,391	\$658,680	\$14,800
Fuel.....	\$2,857,883	\$2,502,509	\$485,457	\$7,642	\$1,060,976	\$286,031	\$4,562
Purchased electric energy.....	\$5,784,337	\$2,788,615	\$147,546	\$1,557	\$2,828,807	\$268,560	\$2,264
Contract work.....	\$22,405,871	\$22,070,889	\$21,779,768	\$3,480	\$199,859	\$2,615	
Cost of buildings, machinery, and equipment erected or installed during year.....	\$21,398,885	\$21,339,154	\$15,896,621	\$590,929	\$3,876,596	\$315,666	\$4,170
Buildings.....	\$2,545,496	\$2,544,611	\$920,502	\$54,111	\$1,519,589	\$45,029	\$2,195
Machinery and equipment, total.....	\$18,829,227	\$18,794,543	\$14,976,119	\$536,818	\$2,357,009	\$270,637	\$1,975
Purchased in new condition.....	\$18,064,812	\$16,060,442	\$14,665,289	\$536,818	\$2,072,819	\$228,277	\$1,975
Purchased in used condition.....	\$744,415	\$734,101	\$310,050		\$284,190	\$54,582	
Number of man-hours worked by wage earners.....	69,067,469	81,211,685	10,562,696	116,476	43,730,152	2,696,362	251,495
Average hourly earning of wage earners.....	\$0.79	\$0.78	\$0.77	\$0.71	\$0.81	\$0.60	\$0.55
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	854,266	737,958	95,460	4,714	510,945	57,957	1,665
Per wage earner.....	19.1	18.5	17.8	66.3	16.5	41.1	15.7
Prime movers.....	511,804	400,024	88,888	4,654	258,145	31,140	585
Electric motors driven by purchased energy.....	542,662	557,934	6,574	80	272,800	26,817	970
Horsepower rating of electric motors driven by energy generated by reporting companies.....	95,517	90,986	2,758	36	77,064	8,012	
Fuels consumed:							
Anthracite (tons of 2,000 pounds).....	2,408	2,408	88			8	
Bituminous coal (tons of 2,000 pounds).....	865,420	865,320	1,608	571	725,855	31,705	247
Fuel oils (barrels of 42 gallons).....	127,545	118,845	73,010		17,621	9,002	30
Gasoline and kerosene (gallons).....	4,770,120	4,785,540	1,670,180		977,962	1,096,208	25,281
Natural gas (thousands of cubic feet).....	4,641,275	4,602,798	4,550,245	227,652		24,782	
Electric energy consumed (thousands of kw.-hrs.), total.....	355,206	355,190	12,664	105	289,980	21,469	376
Purchased.....	258,844	258,626	8,745	90	191,590	15,139	376
Generated by reporting companies.....	96,564	96,564	5,921	15	78,390	6,550	

¹ Represents 1 rough-dimension limestone quarry, and 2 quarries and 2 crushing plants in the crushed and broken miscellaneous stones industry.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract-services performed during the year.

⁴ Includes statistics for central-office employees in the iron-ore, crushed and broken granite, bentonite, native asphalt and bitumens, gypsum, mica, phosphate-rock, and rock-salt industries, and at central offices not classified by industry.

⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy and were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.

⁶ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ⁹	Nonproducing operations ¹⁰
	Sand and gravel ⁷		Clay and shale ⁷		Fluorspar	All other ⁸		
	Common sand and gravel	Foundry sand	Fire clay	Common clay and shale				
Number of operating companies ² -----	61	15	8	50	18	5	180	55
Number of mines and quarries-----	73	19	10	56	18	7	-----	5
Number of oil and gas wells producing on December 31, 1939-----	-----	-----	-----	-----	-----	-----	-----	-----
Number of preparation plants-----	73	17	3	6	15	5	-----	-----
Value of all products ³ -----	\$4,247,657	\$545,904	\$308,719	\$380,111	\$1,492,607	\$1,354,087	\$25,487,871	-----
Number of persons engaged, total-----	994	146	116	179	578	290	5,555	57
Wage earners (average for the year)-----	820	124	99	172	506	258	4,827	50
Number receiving pay during pay-roll period ending nearest the 15th of:	-----	-----	-----	-----	-----	-----	-----	-----
January-----	537	92	103	98	403	260	4,219	56
February-----	534	84	94	106	369	270	4,159	54
March-----	662	96	93	124	412	260	4,218	50
April-----	833	102	89	156	448	270	4,402	14
May-----	916	129	92	224	475	260	4,905	14
June-----	964	138	88	258	514	262	4,592	16
July-----	993	134	104	177	528	259	4,985	27
August-----	997	139	100	184	532	255	4,958	29
September-----	969	149	104	177	559	254	5,056	21
October-----	923	164	105	224	588	252	5,879	45
November-----	810	161	108	198	619	248	5,520	49
December-----	698	106	106	178	650	247	5,564	44
Salaried employees-----	154	12	15	5	55	32	508	11
Proprietors and firm members-----	40	10	4	2	17	-----	198	16
Performing manual labor-----	16	9	5	-----	5	-----	69	4
Principal expenses designated below, total-----	\$2,497,205	\$317,704	\$201,810	\$277,078	\$898,056	\$788,782	\$8,532,921	\$440,589
Wages-----	\$1,127,642	\$135,596	\$105,166	\$181,774	\$487,582	\$358,701	\$7,156,574	\$35,586
Salaries-----	\$580,690	\$29,828	\$41,462	\$7,576	\$105,015	\$129,651	\$1,529,008	\$24,425
Supplies and materials-----	\$413,661	\$68,573	\$35,564	\$37,044	\$178,962	\$137,970	\$26,039	\$31,980
Fuel-----	\$245,228	\$4,731	\$7,879	\$33,778	\$62,754	\$68,511	\$21,500	\$15,074
Purchased electric energy-----	\$288,382	\$30,806	\$15,919	\$17,108	\$16,797	\$35,969	(¹¹)	\$724
Contract work-----	\$45,600	\$270	-----	-----	\$44,918	-----	(¹¹)	\$554,962
Cost of buildings, machinery, and equipment erected or installed during year-----	\$256,270	\$28,147	\$32,145	\$1,627	\$476,814	\$59,747	\$24,162	\$5,589
Buildings-----	\$95,463	\$7,435	\$715	-----	\$77,159	\$24,415	(¹¹)	\$685
Machinery and equipment, total-----	\$162,807	\$20,712	\$31,430	\$1,627	\$399,655	\$35,332	(¹¹)	\$54,884
Purchased in new condition-----	\$117,707	\$15,637	\$11,517	\$1,627	\$389,444	\$35,532	(¹¹)	\$24,370
Purchased in used condition-----	\$45,100	\$7,075	\$19,913	-----	\$10,211	-----	(¹¹)	\$10,514
Number of man-hours worked by wage earners-----	1,766,895	219,694	176,481	317,188	1,011,714	562,550	7,802,874	55,112
Average hourly earning of wage earners-----	\$0.64	\$0.61	\$0.58	\$0.57	\$0.48	\$0.60	\$0.92	\$0.67
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	57,575	4,170	3,729	4,473	12,129	5,145	114,146	2,160
Per wage earner-----	45.8	35.6	37.7	26.0	24.0	19.9	25.6	72.0
Prime movers-----	18,857	2,096	1,228	5,518	10,279	770	109,440	2,140
Electric motors driven by purchased energy-----	18,758	2,074	2,501	1,155	1,850	4,375	4,708	20
Horsepower rating of electric motors driven by energy generated by reporting companies-----	5	10	45	190	2,699	189	4,272	59
Fuels consumed:	-----	-----	-----	-----	-----	-----	-----	-----
Anthracite (tons of 2,000 pounds)-----	1,640	-----	-----	-----	8	664	(¹¹)	-----
Bituminous coal (tons of 2,000 pounds)-----	35,076	7,476	1,558	9,105	27,598	24,727	(¹¹)	100
Fuel oils (barrels of 42 gallons)-----	5,778	944	66	-----	1,465	10,408	(¹¹)	9,000
Gasoline and kerosene (gallons)-----	774,377	55,711	22,988	64,589	50,226	55,088	(¹¹)	4,580
Natural gas (thousands of cubic feet)-----	-----	-----	-----	-----	-----	-----	(¹¹)	58,477
Electric energy consumed (thousands of kw.-hrs.), total-----	14,810	2,506	966	813	6,535	4,966	(¹¹)	18
Purchased-----	14,806	2,505	960	724	655	4,841	(¹¹)	18
Generated by reporting companies-----	2	6	6	69	5,682	125	(¹¹)	-----

² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract-services performed during the year.⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy and were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.⁷ 1 mine and 1 preparation plant in the glass-sand industry, and 2 mines and 2 preparation plants in the fuller's-earth industry are included under "All other" to avoid disclosure of confidential information.⁸ Represents 1 mine and 1 preparation plant in the glass-sand industry, 2 mines and 2 preparation plants in the fuller's-earth industry, and 4 mines and 2 mills in the tripple industry.⁹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.¹⁰ Represents operations of 30 companies in the crude-petroleum and natural-gas industry, 4 bituminous-coal mines, and 1 fluorspar mine.¹¹ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Adams	Alexander	Bureau	Christian	Clark	Clinton	Cock	Crawford	Edgar
Number of operating companies ¹	749	5	4	10	4	5	4	15	18	3
Number of mines and quarries	753	7	6	10	7	5	4	17	2	3
Number of preparation plants	287	6	4	5	1	5	2	6	45	
Value of all products	\$90,800,867	\$258,205	\$187,824	\$347,011	\$5,522,165	\$101,720	\$204,452	\$1,564,685	\$90,619	\$64,618
Number of persons engaged, total	58,071	96	95	225	2,151	55	218	1,209	32	60
Wage earners (average for the year)	\$4,591	86	87	204	2,046	49	209	488	50	59
Salaried employees	2,865	9	6	14	105	2	4	719		1
Proprietors and firm members	617	1	2	7		4	5	2	2	
Performing manual labor	450					2	5		2	
Principal expenses designated below, total	\$66,515,440	\$285,832	\$97,189	\$208,465	\$5,644,768	\$50,852	\$155,215	\$3,456,749	\$45,585	\$54,854
Wages	\$39,406,759	\$95,999	\$58,487	\$159,775	\$2,201,228	\$35,852	\$125,727	\$662,874	\$50,761	\$40,865
Salaries	\$7,456,935	\$17,099	\$7,980	\$24,285	\$402,697	\$2,058	\$9,185	\$2,550,815		\$732
Supplies and materials	\$12,920,068	\$40,708	\$17,428	\$25,099	\$939,958	\$5,450	\$15,588	\$222,514	\$8,699	\$6,715
Fuel	\$1,817,872	\$25,988	\$12,798	\$10,216	\$21,268	\$6,852	\$6,765	\$88,886	\$5,905	\$6,278
Purchased electric energy	\$2,656,067	\$10,068	\$656	\$6,090	\$279,617	\$800		\$111,962		\$40
Contract work	\$291,121									
Cost of buildings, machinery, and equipment erected or installed during year	\$5,442,585	\$22,406		\$6,534	\$157,928		\$1,580	\$35,585	\$195	\$200
Buildings	\$1,624,109	\$1,580		\$616	\$165			\$17,543		\$200
Machinery and equipment	\$3,818,226	\$20,756		\$7,818	\$157,761		\$1,580	\$18,020	\$195	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	642,426	2,206	906	1,256	25,228	1,627	2,256	22,188	1,205	579
Prime movers	511,158	1,270	988	578	5,825	1,589	2,256	9,177	1,205	544
Electric motors driven by purchased energy	551,360	958	18	688	19,455	258		13,011		55
Horsepower rating of electric motors driven by energy generated by reporting companies	86,246		189		884		854	180	26	70
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	2,520									
Schistose coal (tons of 2,000 pounds)	861,734		8,060	3,561	17,256	575	5,925	18,598	278	5,485
Fuel oils (barrels of 42 gallons)	45,835	2,159		4		504		151		
Gasoline and kerosene (gallons)	5,095,860	141,114	10,586	24,215		24,174	7,700	111,300	15,020	
Natural gas (thousands of cubic feet)	232,535	24,721						58,952		
Electric energy consumed (thousands of kw.-hrs.), total	522,526	552	185	506	17,534	24	375	4,855	9	18
Purchased	229,895	552	10	506	16,785	24		4,822		1
Generated by reporting companies	92,645		125		551		375	55	9	17

ITEM	Fayette	Franklin	Fulton	Gallatin	Greene	Grundy	Hardin	Henderson	Henry	Jackson
Number of operating companies ¹	4	6	59	5	4	7	19	4	15	15
Number of mines and quarries	4	12	60	5	4	6	20	4	14	15
Number of preparation plants	5	8	5	1	2	1	14	4	1	3
Value of all products	\$45,965	\$14,058,226	\$5,405,015	\$171,788	\$67,741	\$583,277	\$1,526,659	\$56,155	\$1,285,252	\$2,754,990
Number of persons engaged, total	22	5,365	1,529	96	48	172	589	56	566	884
Wage earners (average for the year)	17	5,952	1,200	84	42	149	521	52	554	854
Salaried employees	1	453	65	6	1	18	51		18	54
Proprietors and firm members	4		84	6	5	5	17	4	14	16
Performing manual labor	4		47	2	4	5	4	1	11	15
Principal expenses designated below, total	\$25,057	\$10,504,000	\$2,306,497	\$109,520	\$40,061	\$556,782	\$914,900	\$55,205	\$735,718	\$2,060,967
Wages	\$12,054	\$5,322,927	\$1,515,865	\$57,098	\$32,087	\$175,622	\$499,423	\$24,158	\$441,206	\$1,259,612
Salaries	\$894	\$368,411	\$141,861	\$5,023	\$1,200	\$68,779	\$102,613		\$69,105	\$35,702
Supplies and materials	\$4,153	\$2,542,952	\$721,046	\$56,118	\$2,472	\$84,167	\$188,962	\$4,167	\$148,273	\$549,944
Fuel	\$5,984	\$180,519	\$45,402	\$9,469	\$5,564	\$12,504	\$87,157	\$5,460	\$1,614	\$6,882
Purchased electric energy	\$1,022	\$611,591	\$306,280	\$621	\$901	\$15,890	\$16,847		\$74,518	\$146,817
Contract work			\$8,535				\$44,918	\$1,440		
Cost of buildings, machinery, and equipment erected or installed during year	\$7,624	\$308,176	\$412,452	\$2,450	\$16,520	\$18,776	\$477,629	\$2,500	\$2,755	\$42,474
Buildings	\$2,200	\$204,115	\$19,616	\$2,400	\$20	\$250	\$77,559	\$700	\$1,000	\$14,728
Machinery and equipment	\$5,424	\$104,065	\$392,936	\$60	\$16,500	\$18,525	\$400,070	\$1,600	\$1,755	\$27,746
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,325	177,504	55,477	927	944	2,840	12,554	809	5,561	15,989
Prime movers	1,328	108,685	9,423	650	782	995	10,704	609	4,972	865
Electric motors driven by purchased energy	100	68,608	30,054	77	162	1,845	1,650		4,569	15,126
Horsepower rating of electric motors driven by energy generated by reporting companies		18,060	1,786	507		40	2,699			70
Fuels consumed:										
Anthracite (tons of 2,000 pounds)				1,640			18			
Schistose coal (tons of 2,000 pounds)		183,651	9,314	2,872		2,508	27,727		929	2,095
Fuel oils (barrels of 42 gallons)		212	2,061	190		929	1,595	95	1	490
Gasoline and kerosene (gallons)	24,687	14,515	176,551	884	21,540	29,062	54,655	20,692	1,952	51,407
Natural gas (thousands of cubic feet)	2,509									
Electric energy consumed (thousands of kw.-hrs.), total	68	59,362	25,611	55	30	806	6,556		5,717	9,615
Purchased	68	55,881	19,780	22	30	776	5,662		5,717	9,567
Generated by reporting companies		23,701	5,881	31		55				59

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Johnson	Kankakee	Knox	La Salle	Lawrence	Lee	Livingston	Logan	McHenry	Macoupin
Number of operating companies ¹	3	5	10	34	7	3	6	4	3	10
Number of mines and quarries	5	5	10	37	5	5	6	4	3	12
Number of preparation plants	3	2	1	21	9	2	5	2	3	1
Value of all products	\$66,700	\$509,727	\$1,246,119	\$2,686,378	\$78,458	\$103,048	\$214,886	\$251,123	\$115,480	\$5,055,067
Number of persons engaged, total	62	119	348	1,052	26	37	37	124	37	2,292
Wage earners (average for the year)	55	106	312	962	21	35	41	96	32	2,198
Salaried employees	4	16	23	80	3	—	6	23	4	102
Proprietors and firm members	3	—	9	10	2	2	11	3	1	2
Performing manual labor	2	—	6	3	1	1	6	—	—	2
Principal expenses designated below, total	\$49,241	\$292,167	\$725,676	\$2,189,914	\$36,865	\$66,458	\$100,290	\$250,915	\$91,158	\$3,917,295
Wages	\$34,715	\$158,296	\$429,615	\$1,121,983	\$17,548	\$37,582	\$65,979	\$116,372	\$47,877	\$2,607,280
Salaries	\$6,580	\$71,820	\$80,181	\$250,657	\$5,800	—	\$6,586	\$78,920	\$6,682	\$219,845
Supplies and materials	\$1,800	\$25,759	\$132,760	\$421,095	\$6,811	\$14,056	\$14,110	\$17,203	\$15,659	\$695,374
Fuel	\$7,156	\$21,985	\$22,874	\$154,067	\$2,876	\$11,656	\$10,690	\$7,559	\$12,006	\$154,745
Purchased electric energy	—	\$28,559	\$59,254	\$150,921	—	\$2,122	\$15,671	\$15,061	\$10,962	\$15,204
Contract work	—	\$6,649	\$692	\$11,201	—	—	\$75	—	—	\$14,850
Cost of buildings, machinery, and equipment erected or installed during year	\$18,500	\$58,178	\$58,815	\$222,966	—	\$14,450	\$10,650	\$61,495	\$2,356	\$246,171
Buildings	—	\$7,861	\$25,504	\$42,666	—	\$500	\$500	\$58,436	—	\$29,772
Machinery and equipment	\$18,500	\$50,317	\$33,311	\$180,300	—	\$13,950	\$10,150	\$3,059	\$2,356	\$216,399
Horsepower rating of prime movers and electric motors driven by purchased energy, total	686	3,099	5,947	20,796	965	1,091	1,967	2,509	2,143	19,286
Prime movers	686	1,478	2,928	8,863	965	933	1,272	1,569	804	17,688
Electric motors driven by purchased energy	—	1,621	3,019	11,933	—	158	695	940	1,339	1,598
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	450	4,591	—	285	—	—	—	19,272
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	15	4,430	11,310	56,122	17	1,906	286	918	1,817	129,538
Fuel oils (barrels of 42 gallons)	175	72	378	4,596	—	—	332	232	302	291
Gasoline and kerosene (gallons)	41,025	52,238	41,403	217,450	75,500	42,669	74,413	41,000	18,512	2,548
Natural gas (thousands of cubic feet)	—	—	—	15,000	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	—	2,117	4,798	17,249	1	268	606	646	353	11,519
Purchased	—	2,117	4,698	11,473	—	94	606	646	353	556
Generated by reporting companies	—	—	200	5,776	1	164	—	—	—	10,963

ITEM	Madison	Marion	Menard	Merced	Morroe	Montgomery	Ogle	Peoria	Perry	Randolph
Number of operating companies ¹	22	3	12	9	5	3	3	32	23	14
Number of mines and quarries	23	1	12	8	4	3	3	22	22	14
Number of preparation plants	6	3	1	—	4	—	3	7	3	5
Value of all products	\$5,060,125	\$442,497	\$254,318	\$80,728	\$259,549	\$643,695	\$302,029	\$2,729,761	\$4,701,357	\$1,356,064
Number of persons engaged, total	1,759	232	198	32	33	447	47	1,333	1,528	587
Wage earners (average for the year)	1,668	218	188	33	75	413	37	1,214	1,408	564
Salaried employees	71	14	7	—	5	32	8	52	108	31
Proprietors and firm members	5	—	13	9	5	—	2	67	14	2
Performing manual labor	4	—	7	9	2	—	—	49	11	1
Principal expenses designated below, total	\$2,527,850	\$325,570	\$190,656	\$67,066	\$117,228	\$374,981	\$173,014	\$1,947,020	\$3,244,086	\$1,061,231
Wages	\$1,913,240	\$224,179	\$139,091	\$35,535	\$86,269	\$465,236	\$55,004	\$1,519,141	\$1,744,446	\$620,311
Salaries	\$117,357	\$24,798	\$14,464	\$6,560	\$6,777	\$62,777	\$27,000	\$96,663	\$62,567	\$80,124
Supplies and materials	\$553,540	\$82,498	\$25,946	\$8,155	\$10,869	\$106,486	\$28,796	\$217,215	\$935,827	\$240,835
Fuel	\$66,417	\$6,912	\$5,929	\$1,466	\$11,102	\$41,285	\$6,768	\$14,797	\$46,213	\$41,907
Purchased electric energy	\$75,785	\$1,708	\$5,206	\$1,929	\$543	\$7,188	\$53,108	\$99,090	\$254,183	\$68,174
Contract work	\$1,711	\$5,480	—	—	\$55	—	\$3,537	\$7,144	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$204,623	\$596,159	\$2,063	\$4,280	\$13,095	\$17,288	\$5,256	\$10,787	\$566,557	\$53,589
Buildings	\$54,413	\$54,111	\$600	—	\$12,443	—	\$250	\$1,273	\$642,289	\$14,910
Machinery and equipment	\$150,210	\$544,048	\$1,463	\$4,280	\$650	\$17,288	\$5,006	\$9,514	\$24,048	\$40,679
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,374	4,591	1,083	240	1,351	4,595	4,418	10,289	56,577	10,836
Prime movers	10,684	4,276	823	102	1,331	4,206	727	2,823	9,362	7,317
Electric motors driven by purchased energy	4,690	115	263	138	20	190	3,689	7,466	27,195	1,259
Horsepower rating of electric motors driven by energy generated by reporting companies	8,347	1,550	330	—	1,200	2,065	—	760	1,116	2,805
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	68,695	7,460	3,754	867	335	\$7,801	1,090	2,969	53,599	20,620
Fuel oils (barrels of 42 gallons)	125	—	1	16	2,210	—	36	483	437	590
Gasoline and kerosene (gallons)	48,245	—	10,860	3,014	64,776	—	9,694	71,907	22,653	87,762
Natural gas (thousands of cubic feet)	—	142,380	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	21,218	826	958	126	1,259	8,302	3,100	6,146	21,169	6,838
Purchased	4,596	96	168	128	9	817	3,100	3,881	20,777	3,085
Generated by reporting companies	16,620	730	790	—	1,250	7,485	—	2,265	672	1,573

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

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN ILLINOIS, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Rock Island	St. Clair	Saline	Sangamon	Schuyler	Scott	Shelby	Stark	Tazewell	Vermilion
Number of operating companies ¹	10	61	17	22	10	5	5	6	10	55
Number of mines and quarries	11	58	22	26	10	5	5	5	10	54
Number of preparation plants	6	15	5	2	—	1	—	—	6	2
Value of all products	\$328,480	\$4,585,508	\$6,585,752	\$5,816,182	\$96,054	\$24,547	\$26,610	\$40,775	\$695,831	\$5,652,720
Number of persons engaged, total	109	2,026	2,591	2,291	102	24	37	59	541	2,550
Wage earners (average for the year)	95	1,858	2,378	2,150	91	21	50	33	313	2,212
Salaried employees	10	135	200	112	—	—	—	—	25	67
Proprietors and firm members	6	55	15	19	11	5	7	6	3	71
Performing manual labor	6	22	10	16	9	1	5	5	—	54
Principal expenses designated below, total	\$202,798	\$3,559,142	\$4,852,485	\$5,202,127	\$75,079	\$20,593	\$21,430	\$51,151	\$499,540	\$5,057,718
Wages	\$115,055	\$2,149,045	\$2,915,244	\$2,241,461	\$51,288	\$12,872	\$19,264	\$26,945	\$362,207	\$2,171,010
Salaries	\$15,999	\$182,759	\$484,552	\$297,218	—	—	—	—	\$58,762	\$181,122
Supplies and materials	\$44,562	\$632,078	\$1,061,940	\$320,545	\$9,555	\$4,422	\$1,684	\$5,401	\$51,867	\$473,049
Fuel	\$15,454	\$97,594	\$88,154	\$29,147	\$2,855	\$3,201	\$452	\$184	\$9,428	\$42,588
Purchased electric energy	\$12,766	\$170,915	\$278,729	\$107,471	\$1,625	\$96	—	\$621	\$55,464	\$147,954
Contract work	\$2,204	\$126,785	\$5,886	\$6,285	—	—	\$50	—	\$4,792	\$22,055
Cost of buildings, machinery, and equipment erected or installed during year	\$15,247	\$541,174	\$509,712	\$132,265	—	\$1,200	\$45	\$45	\$10,559	\$538,257
Buildings	\$547	\$101,486	\$80,862	\$1,875	—	—	\$45	—	\$2,695	\$182,975
Machinery and equipment	\$14,700	\$239,688	\$428,850	\$130,390	—	\$1,200	—	\$45	\$7,666	\$155,284
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,962	25,614	45,598	18,505	225	292	47	37	4,507	17,175
Prime movers	780	12,483	12,889	3,302	190	282	47	2	1,358	4,491
Electric motors driven by purchased energy	1,182	13,131	32,504	15,001	55	10	—	35	3,149	12,684
Horsepower rating of electric motors driven by energy generated by reporting companies	5	4,329	3,947	550	—	—	—	—	—	—
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	601	46,052	50,944	21,519	1,050	550	122	32	1,192	22,455
Fuel oils (barrels of 42 gallons)	25	6,856	22	10	90	17	25	13	207	1,250
Gasoline and kerosene (gallons)	71,345	222,194	155,296	16,901	5,007	12,592	1,587	700	55,181	114,710
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	816	11,516	19,492	6,451	53	2	—	41	1,991	7,741
Purchased	617	8,740	18,032	5,008	53	2	—	41	1,991	7,741
Generated by reporting companies	1	2,776	1,460	425	—	—	—	—	—	—

ITEM	Wabash	Warren	Washington	White	Whiteside	Will	Williamson	Winnnebago	Woodford	All other ²
Number of operating companies ¹	7	5	7	4	5	8	73	6	3	55
Number of mines and quarries	6	5	7	4	5	9	89	6	5	37
Number of preparation plants	5	1	5	3	3	7	1	6	1	27
Value of all products	\$74,114	\$37,557	\$469,864	\$64,540	\$55,987	\$5,597,708	\$5,826,515	\$212,887	\$134,108	\$1,965,061
Number of persons engaged, total	40	32	319	51	17	675	1,593	75	174	754
Wage earners (average for the year)	32	26	301	23	12	619	1,428	58	160	678
Salaried employees	2	4	15	3	1	54	82	10	10	58
Proprietors and firm members	6	2	5	5	4	—	85	5	4	18
Performing manual labor	5	2	2	—	4	—	62	—	2	16
Principal expenses designated below, total	\$46,758	\$31,240	\$596,025	\$39,290	\$18,060	\$2,228,515	\$2,508,263	\$146,747	\$181,320	\$1,877,884
Wages	\$26,059	\$20,167	\$278,686	\$24,401	\$3,740	\$946,215	\$1,559,651	\$75,072	\$128,917	\$856,792
Salaries	\$6,525	\$4,455	\$26,412	\$2,445	\$445	\$195,621	\$189,517	\$14,791	\$10,008	\$151,084
Supplies and materials	\$6,405	\$2,844	\$26,064	\$5,748	\$2,460	\$794,978	\$568,212	\$17,240	\$24,778	\$587,998
Fuel	\$7,086	\$2,659	\$20,610	\$5,554	\$6,587	\$25,574	\$69,991	\$23,596	\$15,265	\$69,356
Purchased electric energy	\$905	\$155	\$5,251	\$144	\$46	\$205,930	\$115,365	\$11,278	\$2,522	\$32,054
Contract work	—	—	—	—	—	—	\$227	\$9,770	—	\$10,622
Cost of buildings, machinery, and equipment erected or installed during year	\$200	\$592	\$27,056	\$5,100	\$2,150	\$28,119	\$104,682	\$4,711	—	\$240,444
Buildings	—	—	\$1,000	\$5,000	—	\$5,510	\$27,028	\$1,000	—	\$49,515
Machinery and equipment	\$200	\$592	\$26,056	\$5,100	\$2,150	\$24,609	\$77,654	\$3,711	—	\$190,929
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,121	500	3,460	1,365	354	14,965	21,535	2,598	1,745	25,544
Prime movers	1,049	500	3,416	1,185	354	2,956	12,251	1,515	1,420	15,511
Electric motors driven by purchased energy	72	—	44	200	—	12,047	9,084	883	325	8,033
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	2,624	—	—	—	6,813	—	300	2,544
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	664
Bituminous coal (tons of 2,000 pounds)	487	500	17,969	588	50	15,471	52,172	2,926	5,265	22,778
Fuel oils (barrels of 42 gallons)	282	15	114	717	—	1,518	2,702	71	—	11,566
Gasoline and kerosene (gallons)	52,876	16,807	21,525	10,200	45,655	507,751	104,559	71,047	15,666	202,650
Natural gas (thousands of cubic feet)	2,500	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	24	9	984	5	1	19,527	10,914	454	500	5,091
Purchased	24	9	173	5	1	19,527	6,997	454	155	5,569
Generated by reporting companies	—	—	811	—	—	—	5,917	—	145	1,522

¹ Companies with operations in more than 1 county are counted only once in the totals.² Bond, Boone, Carroll, Cass, Champaign, De Waga, Edwards, Hamilton, Hancock, Jefferson, Jersey, Kane, Kendall, Lake, McDonough, McLean, Macon, Marshall, Massac, Morgan, Pike, Pope, Pulaski, and Union.

INDIANA

Indiana ranked twenty-first among the States in value of products of mineral industries in 1939, and fifteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 69 percent of that in 1929, and the number of wage earners 64 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 60 percent of that in 1919, and the number of wage earners 39 percent. Differences between the totals for 1939 and 1929 are accounted for chiefly by decreases in the bituminous-coal, limestone, and common sand and gravel industries; differences between 1939 and 1919 result chiefly from decreases reported for the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 119 percent of that in 1929, and 156 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 71 percent of the total value of products and 76 percent of the total number of wage earners in all mineral industries in the State. Fourteen percent of the total value of products and 13 percent of the total number of wage earners were reported at limestone operations, and 9 percent of the value of products and 6 percent of the wage earners at common sand and gravel operations. The State ranked first among all States in the rough-dimension limestone industry, accounting for 66 percent of the total value of products of the industry in the United States. (See report for this industry.)

Other mineral industries in the State were crude petroleum and natural gas, foundry sand, common clay and shale, fire clay, and natural abrasives. Mineral operations (other than oil and gas wells) were located in 74 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN INDIANA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural- gas industries)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1939	1929	1939 ¹	1919
Number of mines and quarries-----	455	436	452	563	598
Number of oil and gas wells producing at end of year-----	1,885			1,885	2,456
Value of all products-----	\$55,445,015	\$35,594,740	\$48,982,786	\$31,910,258	\$52,766,706
Number of persons engaged, total-----	12,586	11,908	15,279	11,626	28,758
Wage earners (average for the year)-----	11,250	10,755	16,742	10,484	26,751
Salaried employees-----	978	850	1,242	821	1,648
Proprietors and firm members-----	360	323	295	316	839
Performing manual labor-----	216	209	(²)	205	164
Principal expenses designated below, total-----	\$24,655,722	\$22,544,531	\$34,446,044	\$22,624,550	\$42,994,649
Wages-----	\$18,504,901	\$12,982,729	\$23,575,698	\$12,664,787	\$39,152,924
Salaries-----	\$2,145,087	\$1,791,735	\$3,075,010	\$1,915,454	\$4,078,279
Supplies and materials-----	\$5,582,542	\$5,431,562	\$5,144,408	\$5,126,219	\$6,370,555
Fuel-----	\$814,262	\$761,636	\$980,559	\$852,121	\$1,757,090
Purchased electric energy-----	\$1,477,052	\$1,466,969	\$1,978,654	\$1,228,752	\$275,616
Contract work-----	\$1,124,078	\$150,200	\$113,755	\$1,112,197	\$540,187
Cost of machinery and equipment installed during year-----	\$1,858,684	\$1,250,872	\$1,595,986	\$1,698,974	(²)
Horsepower rating of power equipment, total-----	253,285	225,882	198,755	201,731	129,665
Per wage earner-----	20.7	20.8	11.3	19.2	4.6
Prime movers-----	94,507	85,735	80,982	85,147	100,632
Electric motors driven by purchased energy-----	156,978	136,149	127,755	116,604	29,031
Electric energy consumed (thousands of kw.-hrs.), total-----	104,827	104,206	107,187	91,596	(²)
Purchased-----	95,997	95,545	102,570	80,545	(²)
Generated by reporting companies-----	10,830	10,661	5,627	10,651	(²)

¹ Includes 7 limestone quarries, with products valued at \$457,609, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

² Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN INDIANA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS										Contract-service and non-producing operations ¹
		Total	Fuels		Limestone		Sand and gravel		Common clay and shale	Fire clay and natural abrasives ²		
			Crude petroleum and natural gas	Bituminous coal	Crushed and broken	Rough-dimension	Common sand and gravel	Foundry sand				
Number of operating companies ³	527	483	75	248	57	14	54	6	19	11	46	
Number of mines and quarries	455	455		266	70	16	67	6	19	11		
Number of oil and gas wells producing on December 31, 1939	1,985	1,985	1,985									
Number of preparation plants	153	153		16	65		67	4		3		
Value of all products ⁴	\$36,268,497	\$35,443,015	\$1,694,195	\$25,175,969	\$2,585,934	\$2,324,358	\$3,235,875	\$145,005	\$154,090	\$129,808	\$825,482	
Number of persons engaged, total	12,810	12,586	600	9,318	1,013	617	820	65	80	77	222	
Wage earners (average for the year)	11,388	11,250	418	8,541	888	587	642	47	77	70	148	
Number receiving pay during pay-roll period ending nearest the 15th of:												
January	11,565	11,252	426	8,515	559	225	399	54	57	49	111	
February	11,414	11,295	385	8,406	665	282	430	51	55	61	119	
March	11,651	11,532	395	8,505	769	597	494	45	60	71	119	
April	11,074	10,953	421	8,350	827	554	622	41	77	71	141	
May	10,669	10,531	402	7,954	950	642	685	43	80	77	158	
June	9,690	9,561	428	6,541	1,140	714	716	45	99	78	129	
July	10,191	10,053	402	6,718	1,101	797	790	51	98	76	158	
August	11,063	10,913	454	7,552	1,024	861	798	54	92	78	150	
September	12,155	11,968	424	8,648	1,054	817	806	60	80	80	186	
October	12,942	12,729	439	9,587	982	747	788	58	77	71	213	
November	12,486	12,314	449	9,696	855	464	646	55	81	70	172	
December	12,082	11,959	412	8,759	726	320	533	43	70	76	145	
Salaried employees	998	978	147	549	71	50	159	15	1	6	20	
Proprietors and firm members	414	360	35	228	54		39	1	2	1	54	
Performing manual labor	287	216	9	167	27		14	1			19	
Principal expenses designated below, total	\$25,147,018	\$24,655,722	\$1,999,888	\$17,857,332	\$1,656,557	\$1,027,428	\$1,850,471	\$89,518	\$111,203	\$85,325	\$491,296	
Wages	\$13,671,542	\$13,504,901	\$465,426	\$10,714,961	\$749,981	\$682,210	\$712,629	\$50,759	\$78,745	\$62,209	\$166,441	
Salaries	\$2,185,078	\$2,143,087	\$349,552	\$1,228,598	\$115,996	\$124,303	\$295,456	\$28,377	\$1,800	\$6,205	\$59,991	
Supplies and materials	\$5,635,647	\$5,592,342	\$143,707	\$4,401,156	\$468,004	\$102,248	\$444,542	\$4,308	\$17,273	\$11,084	\$45,305	
Fuel	\$842,130	\$814,262	\$46,469	\$415,882	\$172,963	\$15,712	\$151,113	\$4,871	\$6,157	\$1,215	\$27,868	
Purchased electric energy	\$1,477,162	\$1,477,052	\$3,474	\$1,005,518	\$155,153	\$85,175	\$239,468	\$1,225	\$6,609	\$2,632	\$110	
Contract work	\$1,357,658	\$1,124,078	\$997,260	\$96,597	\$14,560	\$9,780			\$2,618		\$215,581	
Cost of buildings, machinery, and equipment erected or installed during year	\$2,347,927	\$2,311,746	\$630,040	\$1,260,508	\$181,966	\$54,617	\$191,077	\$4,658	\$7,442	\$1,440	\$56,181	
Buildings	\$445,062	\$445,062	\$19,670	\$376,728	\$11,497	\$904	\$35,465			\$800	(⁵)	
Machinery and equipment, total	\$1,892,865	\$1,866,684	\$610,370	\$883,782	\$170,469	\$53,713	\$157,612	\$4,658	\$7,442	\$640	\$15,675	
Purchased in new condition	\$1,312,741	\$1,499,996	\$583,919	\$637,875	\$144,908	\$28,529	\$112,057	\$4,656	\$6,982	\$640	\$13,175	
Purchased in used condition	\$580,124	\$366,688	\$46,451	\$245,907	\$25,561	\$5,184	\$45,555		\$480		\$500	
Number of man-hours worked by wage earners	18,542,324	18,257,937	699,879	12,976,027	1,748,242	1,154,414	1,359,180	72,499	147,179	120,537	284,387	
Average hourly earning of wage earners	\$0.74	\$0.74	\$0.57	\$0.85	\$0.43	\$0.61	\$0.62	\$0.42	\$0.52	\$0.52	\$0.59	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	239,146	233,265	8,517	142,652	28,616	21,957	29,555	893	1,088	229	5,861	
Per wage earner	21.0	20.7	19.9	16.7	32.2	38.8	46.0	19.0	14.1	3.3	59.6	
Prime movers	100,143	94,307	7,941	57,156	16,342	1,644	9,749	778	653	84	5,856	
Electric motors driven by purchased energy	139,003	138,958	376	85,496	12,274	20,513	19,806	115	453	145	25	
Horsepower rating of electric motors driven by energy generated by reporting companies	17,508	17,602		16,405	1,097		50		50		6	
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	3,795	3,795	200			15	5,580				(⁷)	
Bituminous coal (tons of 2,000 pounds)	197,537	197,496	444	153,217	21,526	3,908	16,658			251	41	
Fuel oils (barrels of 42 gallons)	86,096	85,954	12,556	16,746	3,758	143	757	200	1,292	14	142	
Gasoline and kerosene (gallons)	2,630,598	2,552,159	95,699	1,246,414	558,297	30,292	489,283	25,655	16,529	8,000	28,449	
Natural gas (thousands of cubic feet)	282,287	283,486	283,475				15				8,768	
Electric energy consumed (thousands of kw.-hrs.), total	104,987	104,887	157	80,063	7,251	5,855	12,936	51	524	90	(⁷)	
Purchased	95,997	95,997	157	70,087	6,406	5,805	12,926	51	495	90	(⁷)	
Generated by reporting companies	10,990	10,890		9,976	845	80	10		29		(⁷)	

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations represent operations of 28 companies in the crude-petroleum and natural-gas industry.

² Represents 9 mines and 1 preparation plant in the fire-clay industry and 2 mines and 2 preparation plants in the natural-abrasives industry.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment. Nonproducing operations reported "none" for cost of buildings.

⁶ Includes statistics for contract-service operations.

⁷ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN INDIANA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Adams	Cass	Clark	Clay	Daviess	Decatur	Delaware	Dubois	Fountain
Number of operating companies ¹	408	3	3	4	46	9	8	4	12	14
Number of mines and quarries	455	4	3	5	46	9	8	4	12	14
Number of preparation plants	155	4	3	4	—	2	8	4	2	1
Value of all products	\$55,748,820	\$119,389	\$260,629	\$196,445	\$2,450,434	\$152,168	\$77,809	\$106,041	\$70,855	\$165,598
Number of persons engaged, total	11,988	36	59	62	822	105	65	33	99	99
Wage earners (average for the year)	10,852	31	55	53	708	89	52	26	47	62
Salaried employees	831	3	6	5	76	—	1	6	1	2
Proprietors and firm members	325	2	—	4	38	16	12	1	11	15
Performing manual labor	209	2	—	—	27	13	8	1	10	5
Principal expenses designated below, total	\$22,655,834	\$59,727	\$109,661	\$129,501	\$1,611,728	\$106,598	\$60,595	\$51,890	\$44,608	\$161,204
Wages	\$13,039,475	\$24,902	\$37,798	\$54,679	\$632,878	\$79,655	\$27,055	\$23,218	\$34,418	\$98,792
Salaries	\$1,795,535	\$5,028	\$9,845	\$9,908	\$117,861	—	\$1,055	\$10,964	\$1,845	\$2,635
Supplies and materials	\$5,448,656	\$11,800	\$31,860	\$50,360	\$322,779	\$15,698	\$19,034	\$8,724	\$5,857	\$47,390
Fuel	\$767,795	\$7,795	\$9,447	\$21,147	\$99,026	\$9,801	\$6,295	\$2,782	\$2,096	\$10,979
Purchased electric energy	\$1,473,578	\$8,202	\$20,711	\$5,412	\$81,455	\$1,266	\$1,471	\$6,202	\$177	\$9,470
Contract work	\$182,818	—	—	—	\$7,709	\$375	\$6,507	—	\$925	\$1,940
Cost of buildings, machinery, and equipment erected or installed during year, total	\$1,661,706	\$6,000	\$4,782	\$4,320	\$360,183	\$15,440	\$4,522	\$1,445	\$2,570	\$24,068
Buildings	\$425,592	—	—	\$1,916	\$8,669	\$2,961	\$110	\$50	\$500	\$6,590
Machinery and equipment	\$1,236,114	\$6,000	\$4,782	\$2,401	\$351,514	\$12,479	\$4,212	\$1,395	\$2,070	\$17,478
Horsepower rating of prime movers and electric motors driven by purchased energy, total	224,968	967	5,809	1,571	15,941	1,898	1,089	661	865	2,365
Prime movers	86,566	682	1,130	1,198	11,047	1,674	995	268	841	1,545
Electric motors driven by purchased energy	138,602	285	2,679	373	4,894	224	44	593	24	820
Horsepower rating of electric motors driven by energy generated by reporting companies	17,802	—	160	535	35	105	—	—	—	75
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	5,595	—	200	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	197,052	14	1,655	465	10,005	1,373	85	—	360	3,867
Fuel oils (barrels of 42 gallons)	25,398	200	—	114	11,034	416	463	—	25	345
Gasoline and kerosene (gallons)	2,452,470	44,758	17,461	60,557	516,115	49,543	27,820	18,809	8,356	18,843
Natural gas (thousands of cubic feet)	15	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	104,750	349	1,561	557	4,989	141	53	264	10	579
Purchased	93,840	349	1,258	148	4,829	48	53	264	10	526
Generated by reporting companies	10,890	—	102	409	40	93	—	—	—	51

ITEM	Gibson	Grant	Greene	Harrison	Hunt- ington	Jackson	Knox	Lake	Lawrence	Madison
Number of operating companies ¹	6	4	28	4	3	3	16	4	3	3
Number of mines and quarries	6	4	55	4	3	5	16	4	4	4
Number of preparation plants	3	4	6	4	2	1	4	2	2	3
Value of all products	\$1,649,740	\$208,018	\$3,527,437	\$165,475	\$179,098	\$19,030	\$5,002,229	\$265,187	\$980,799	\$144,243
Number of persons engaged, total	849	42	978	97	65	7	1,187	42	149	86
Wage earners (average for the year)	628	31	896	90	59	5	1,127	36	159	29
Salaried employees	16	5	57	4	4	—	54	5	10	7
Proprietors and firm members	5	6	25	3	—	2	6	—	—	—
Performing manual labor	2	—	17	2	—	2	2	—	—	—
Principal expenses designated below, total	\$1,161,696	\$95,186	\$2,112,107	\$108,589	\$112,145	\$10,532	\$2,187,130	\$154,665	\$265,717	\$79,521
Wages	\$741,370	\$33,514	\$1,212,625	\$62,756	\$48,984	\$5,155	\$1,486,861	\$56,642	\$178,673	\$29,612
Salaries	\$46,637	\$6,800	\$96,583	\$5,165	\$6,180	—	\$129,546	\$26,049	\$15,330	\$12,129
Supplies and materials	\$354,925	\$52,159	\$601,352	\$23,532	\$37,353	\$2,255	\$415,629	\$18,805	\$38,834	\$14,105
Fuel	\$35,358	\$15,258	\$49,151	\$9,044	\$9,195	\$2,962	\$39,352	\$29,002	\$8,104	\$2,960
Purchased electric energy	\$5,428	\$7,407	\$152,250	\$10,072	\$11,431	—	\$117,542	\$1,869	\$22,304	\$15,342
Contract work	—	—	\$166	—	—	—	—	—	\$4,272	\$7,373
Cost of buildings, machinery, and equipment erected or installed during year, total	\$842	\$5,500	\$325,982	\$11,384	\$2,940	\$6,982	\$140,645	\$4,656	\$1,060	\$15,579
Buildings	\$842	\$3,000	\$272,158	\$1,980	—	—	\$459	—	—	\$400
Machinery and equipment	—	\$2,500	\$51,834	\$9,404	\$2,940	\$6,982	\$140,186	\$4,656	\$1,060	\$15,179
Horsepower rating of prime movers and electric motors driven by purchased energy, total	10,487	1,133	16,679	989	2,353	260	20,705	1,065	7,988	1,586
Prime movers	10,152	827	6,237	580	683	260	6,906	979	338	344
Electric motors driven by purchased energy	335	506	10,442	409	1,650	—	13,797	106	7,650	1,242
Horsepower rating of electric motors driven by energy generated by reporting companies	7,327	—	180	—	—	—	5,439	—	402	—
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	17,917	—	15,754	—	1,596	—	19,588	4,646	3,425	10
Fuel oils (barrels of 42 gallons)	28	—	551	106	—	—	2,620	—	—	—
Gasoline and kerosene (gallons)	30,205	112,064	216,845	57,950	10,500	18,500	65,796	5,987	—	18,275
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	5,456	332	11,501	678	457	—	8,461	71	1,169	663
Purchased	265	332	11,101	676	457	—	4,705	71	635	663
Generated by reporting companies	5,191	—	200	—	—	—	3,756	—	534	—

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN INDIANA, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Marion	Martin	Monroe	Morgan	Orange	Owen	Parke	Perry	Pike	Putnam
Number of operating companies ¹	5	6	13	4	3	6	13	8	19	3
Number of mines and quarries	7	6	14	4	3	6	13	8	20	3
Number of preparation plants	6	1	1	1	2	3	1	1	2	3
Value of all products	\$457,968	\$33,132	\$1,526,214	\$18,275	\$11,240	\$247,650	\$299,541	\$66,703	\$4,021,997	\$351,655
Number of persons engaged, total	158	40	505	15	13	113	191	59	981	101
Wage earners (average for the year)	79	54	462	15	8	104	175	50	910	98
Salaried employees	78	59	462	15	8	104	175	50	910	98
Proprietors and firm members	1	6	2	2	2	2	17	9	15	8
Performing manual labor	—	6	2	—	2	—	13	7	13	—
Principal expenses designated below, total	\$419,080	\$25,280	\$816,024	\$13,431	\$8,435	\$177,655	\$212,418	\$45,151	\$2,571,900	\$260,661
Wages	\$91,571	\$22,185	\$548,745	\$10,654	\$4,108	\$106,129	\$178,008	\$34,749	\$1,368,378	\$107,758
Salaries	\$214,859	—	\$106,991	—	\$1,440	\$13,649	\$480	—	\$177,828	\$14,370
Supplies and materials	\$61,987	\$2,312	\$82,848	\$1,928	\$1,722	\$33,205	\$25,949	\$9,751	\$708,521	\$88,985
Fuel	\$5,220	\$227	\$12,058	\$400	\$1,165	\$8,239	\$9,398	\$302	\$62,388	\$24,198
Purchased electric energy	\$45,573	\$156	\$59,896	\$449	—	\$14,435	\$583	\$569	\$224,501	\$25,590
Contract work	—	—	\$5,508	—	—	—	—	—	\$30,285	—
Cost of buildings, machinery, and equipment erected or installed during year, total	\$39,903	—	\$35,317	\$460	\$1,225	\$12,606	\$1,839	\$1,685	\$96,490	\$39,751
Buildings	\$500	—	\$1,104	—	\$1,025	\$533	\$752	\$75	\$34,521	\$2,302
Machinery and equipment	\$39,403	—	\$34,213	\$460	\$200	\$12,073	\$1,087	\$1,610	\$62,169	\$37,449
Horsepower rating of prime movers and electric motors driven by purchased energy, total	4,474	495	13,925	141	295	2,313	1,672	74	18,895	5,927
Prime movers	560	495	1,824	100	295	840	1,644	73	5,106	940
Electric motors driven by purchased energy	4,114	—	12,101	41	—	1,475	28	1	15,789	2,987
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	—	—	55	242	—	—	—
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	500	—	15	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	200	36	2,333	50	—	1,873	6,709	16	16,266	7,585
Fuel oils (barrels of 42 gallons)	—	30	143	—	19	—	221	16	651	189
Gasoline and kerosene (gallons)	8,400	2,819	\$2,292	1,680	10,575	23,722	5,170	1,804	298,991	30,549
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	2,925	11	2,971	15	—	687	106	16	17,896	1,495
Purchased	2,925	11	2,941	15	—	686	106	16	17,896	1,495
Generated by reporting companies	—	—	30	—	—	1	—	—	—	—

ITEM	Ripley	Spencer	Sullivan	Vanderburgh	Vermillion	Vigo	Wabash	Warren	Warrick	Wayne	All other ²
Number of operating companies ¹	4	6	24	5	17	37	4	7	29	4	47
Number of mines and quarries	4	6	24	5	18	36	4	5	29	4	50
Number of preparation plants	4	2	5	3	4	5	2	2	1	4	44
Value of all products	\$64,408	\$215,966	\$2,650,332	\$534,599	\$904,633	\$5,309,418	\$74,697	\$86,283	\$1,556,476	\$156,653	\$1,764,670
Number of persons engaged, total	28	91	1,087	188	525	1,914	44	43	674	34	598
Wage earners (average for the year)	24	76	1,052	175	492	1,750	39	34	614	27	458
Salaried employees	1	15	40	11	27	140	5	5	55	6	85
Proprietors and firm members	3	2	15	2	6	21	—	4	27	1	43
Performing manual labor	—	2	9	—	5	24	—	4	19	—	15
Principal expenses designated below, total	\$38,227	\$134,618	\$1,895,218	\$313,598	\$688,285	\$4,085,667	\$69,907	\$59,541	\$1,225,207	\$78,590	\$1,115,795
Wages	\$15,765	\$71,988	\$1,082,166	\$172,208	\$464,325	\$2,399,282	\$58,075	\$28,852	\$655,392	\$30,011	\$439,075
Salaries	\$500	\$26,965	\$98,081	\$16,589	\$46,735	\$293,454	\$7,800	\$11,597	\$69,339	\$8,068	\$168,798
Supplies and materials	\$10,680	\$25,541	\$402,427	\$76,887	\$109,445	\$1,054,656	\$14,191	\$7,925	\$361,915	\$24,575	\$277,380
Fuel	\$5,156	\$8,069	\$32,812	\$23,308	\$14,492	\$52,094	\$4,944	\$3,046	\$36,754	\$7,459	\$109,152
Purchased electric energy	\$2,155	\$1,945	\$79,732	\$8,906	\$44,053	\$284,992	\$3,486	\$7,921	\$27,514	\$8,479	\$117,674
Contract work	\$3,985	\$700	—	—	\$9,235	\$21,209	\$1,411	—	—	—	\$5,716
Cost of buildings, machinery, and equipment erected or installed during year, total	\$10,655	\$7,500	\$71,565	\$27,802	\$10,291	\$221,855	\$1,537	—	\$22,454	\$17,654	\$124,501
Buildings	\$1,076	\$1,500	\$7,170	\$1,578	\$455	\$57,839	—	—	\$1,962	\$2,714	\$8,850
Machinery and equipment	\$9,579	\$6,000	\$64,223	\$26,526	\$9,856	\$165,994	\$1,537	—	\$20,492	\$14,920	\$115,651
Horsepower rating of prime movers and electric motors driven by purchased energy, total	796	987	16,711	953	5,179	32,807	808	1,481	6,373	1,491	18,612
Prime movers	506	808	5,572	458	2,113	7,288	568	367	2,242	577	9,704
Electric motors driven by purchased energy	280	179	11,139	495	3,066	28,519	240	1,114	4,151	914	8,908
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	319	50	1,750	928	—	—	—	—	—
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	64	40	21,611	2,080	6,164	35,650	525	1,189	4,788	800	7,506
Fuel oils (barrels of 42 gallons)	88	1,159	190	145	427	251	—	17	1,587	8	2,553
Gasoline and kerosene (gallons)	20,965	26,790	\$1,297	360	\$4,060	74,979	18,850	2,631	163,059	18,569	485,566
Natural gas (thousands of cubic feet)	—	—	—	15	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	81	48	5,510	153	2,794	20,929	139	373	5,966	376	5,590
Purchased	81	48	5,446	143	2,553	20,626	139	373	5,966	376	5,590
Generated by reporting companies	—	—	64	10	241	303	—	—	—	—	—

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

² Allen, Bartholomew, Crawford, Dearborn, De Kalb, Elkhart, Fayette, Floyd, Franklin, Hamilton, Hancock, Henry, Howard, Jasper, Jay, Jefferson, Jennings, Kosciusko, La Porte, Marshall, Miami, Montgomery, Newton, Porter, Posey, Randolph, Rush, St. Joseph, Scott, Shelby, Starke, Tippecanoe, Washington, Wells, and White.

IOWA

Iowa ranked thirty-second among the States in value of products of mineral industries in 1939 and twenty-sixth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 62 percent of that in 1929, and the number of wage earners 76 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 49 percent of that in 1919, and the number of wage earners 45 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 114 percent of the 1929 figure, and 136 percent of that for 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 66 percent of

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

the value of products and 82 percent of the wage earners. The common sand and gravel industry accounted for 13 percent of the value of products and 6 percent of the wage earners, and the limestone industry accounted for 12 percent of the value of products and 7 percent of the wage earners. Iowa ranked third among all States, by value of products, in the gypsum industry, accounting for 13 percent of the total value of products of the industry in the United States. (See report for this industry.)

Other mineral industries in the State were common clay and shale, foundry sand, and peat. Mineral operations were located in 59 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN IOWA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1939 AND 1919 (Excluding the common clay and shale, sand and gravel, natural sodium compounds, and peat industries)	
		1929 ¹	1929	1939 ²	1919
Number of mines and quarries-----	363	365	247	317	226
Value of all products-----	\$10,816,210	\$10,545,675	\$16,910,280	\$9,095,244	\$18,475,558
Number of persons engaged, total-----	6,280	6,135	7,812	5,680	12,054
Wage earners (average for the year)-----	5,580	5,465	7,184	5,089	11,274
Salaried employees-----	339	332	458	264	580
Proprietors and firm members-----	341	338	190	297	200
Performing manual labor-----	225	225	(³)	215	145
Principal expenses designated below, total-----	\$7,922,844	\$7,741,965	\$12,994,569	\$6,884,548	\$16,664,739
Wages-----	\$5,481,618	\$5,358,342	\$8,317,596	\$4,971,754	\$12,466,426
Salaries-----	\$570,157	\$564,117	\$1,113,170	\$459,007	\$1,545,697
Supplies and materials-----	\$1,146,724	\$1,120,665	\$1,699,507	\$978,360	\$2,072,508
Fuel-----	\$309,254	\$298,569	\$314,448	\$201,547	\$606,285
Purchased electric energy-----	\$561,615	\$551,299	\$542,404	\$244,925	\$142,559
Contract work-----	\$55,496	\$48,975	\$7,541	\$48,975	\$35,464
Cost of buildings and equipment installed during year-----	\$302,269	\$285,782	\$425,661	\$210,759	(³)
Horsepower rating of power equipment, total-----	64,849	62,511	54,902	45,729	52,171
Per wage earner-----	11.6	11.4	7.7	8.6	2.9
Prime movers-----	29,486	28,157	17,675	19,558	19,626
Electric motors driven by purchased energy-----	55,463	34,354	37,227	24,191	⁴ 12,545
Electric energy consumed (thousands of kw.-hrs.), total-----	50,315	29,519	31,211	25,980	(³)
Purchased-----	26,760	26,282	50,944	20,726	(³)
Generated by reporting companies-----	5,555	5,237	267	5,254	(³)

¹ Includes 2 mines and 2 preparation plants in the peat industry. This industry was not included in the census of mineral industries for 1929.

² Includes 4 limestone quarries, with products valued at \$541,778, operated in conjunction with cement plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 5 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IOWA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS							Contract-service and non-producing operations ²
		Total	Bituminous coal	Crushed and broken limestone	Common sand and gravel	Common clay and shale	Gypsum	Foundry sand and peat ³	
Number of operating companies ¹	568	565	264	58	55	20	9	5	5
Number of mines and quarries	565	565	271	58	43	20	8	5	5
Number of preparation plants	91	91		55	43	5	5	5	5
Value of all products ⁴	\$10,844,256	\$10,816,210	\$7,189,537	\$1,508,015	\$1,585,262	\$270,557	\$597,892	\$65,167	\$28,026
Number of persons engaged, total	6,271	6,260	5,037	452	454	124	158	50	11
Wage earners (average for the year)	5,589	5,580	4,565	382	348	117	142	26	9
Number receiving pay during pay-roll period ending nearest the 15th of:									
January	7,155	7,145	6,526	275	137	71	120	17	9
February	6,789	6,780	6,240	244	127	48	105	16	9
March	6,540	6,531	5,896	255	181	61	117	25	9
April	4,962	4,951	5,924	582	352	151	135	29	11
May	5,980	5,975	2,679	443	511	147	156	37	7
June	2,640	2,635	1,585	401	551	151	151	56	7
July	3,201	3,194	1,882	422	468	141	151	30	7
August	4,574	4,567	3,343	455	450	137	156	28	7
September	5,656	5,651	4,415	429	495	151	154	29	5
October	7,022	7,013	5,851	450	405	129	154	26	9
November	7,298	7,289	6,198	433	519	151	154	24	9
December	7,282	7,262	6,559	599	205	125	154	24	20
Salaried employees	359	359	209	57	66	4	15	5	
Proprietors and firm members	545	541	265	55	40	5	1	1	2
Performing manual labor	224	225	197	18	8				1
Principal expenses designated below, total	\$7,959,555	\$7,922,844	\$5,814,925	\$796,842	\$816,992	\$178,909	\$270,611	\$40,034	\$16,711
Wages	\$5,488,882	\$5,481,618	\$4,404,458	\$593,226	\$585,529	\$125,276	\$174,055	\$21,279	\$7,264
Salaries	\$570,137	\$570,137	\$347,324	\$56,741	\$116,782	\$4,080	\$52,372	\$7,757	
Supplies and materials	\$1,152,581	\$1,146,724	\$736,865	\$191,890	\$139,257	\$26,061	\$49,947	\$5,066	\$5,867
Fuel	\$312,574	\$309,254	\$120,910	\$78,587	\$89,510	\$10,685	\$850	\$7,912	\$5,520
Purchased electric energy	\$361,615	\$361,615	\$187,654	\$45,945	\$106,584	\$10,514	\$15,348	\$40	
Contract work	\$53,758	\$53,498	\$17,459	\$31,495		\$4,523	\$41		\$280
Cost of buildings, machinery, and equipment erected or installed during year	\$380,455	\$349,515	\$100,453	\$110,866	\$71,549	\$26,185	\$52,097	\$7,585	\$12,120
Buildings	\$46,958	\$46,048	\$17,478	\$8,159	\$2,411	\$7,898	\$7,000	\$5,500	\$2,892
Machinery and equipment, total	\$311,497	\$302,269	\$82,955	\$102,707	\$69,058	\$18,487	\$25,097	\$4,085	\$9,228
Purchased in new condition	\$224,515	\$217,756	\$46,992	\$64,209	\$49,853	\$10,046	\$25,021	\$5,655	\$6,779
Purchased in used condition	\$86,982	\$84,513	\$35,963	\$18,496	\$19,105	\$8,441	\$2,076	\$450	\$2,449
Number of man-hours worked by wage earners	8,594,695	8,592,981	6,494,974	765,461	742,260	255,280	267,226	59,790	11,702
Average hourly earning of wage earners	\$0.64	\$0.64	\$0.68	\$0.51	\$0.49	\$0.49	\$0.65	\$0.56	\$0.62
Horsepower rating of prime movers and electric motors driven by purchased energy, total	66,239	64,949	29,583	11,463	18,299	2,458	5,685	485	1,290
Per wage earner	11.6	11.6	6.3	30.0	52.6	20.8	25.9	18.6	143.5
Prime movers	30,776	29,486	12,266	7,117	8,119	1,549	155	480	1,280
Electric motors driven by purchased energy	55,463	55,463	16,317	4,546	10,180	1,089	5,528	5	
Horsepower rating of electric motors driven by energy generated by reporting companies	4,945	4,945	841	5,774	65	175	88		
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	216	216				216			(*)
Bituminous coal (tons of 2,000 pounds)	20,008	20,008	11,649	4,540	5,164	50		625	(*)
Fuel oils (barrels of 42 gallons)	10,744	10,744	8,023	580	1,511	212		658	(*)
Gasoline and kerosene (gallons)	1,594,465	1,594,465	585,206	410,551	545,574	64,244	5,000	6,090	(*)
Natural gas (thousands of cubic feet)	18,019	18,019		18,019					(*)
Electric energy consumed (thousands of kw.-hrs.), total	30,515	30,515	16,014	4,667	5,558	794	1,299	1	(*)
Purchased	26,760	26,760	17,603	1,827	5,555	498	1,296	1	
Generated by reporting companies	3,555	3,555	411	2,840	5	296	5		(*)

¹ Represents 1 mine and 1 preparation plant in the foundry-sand industry and 2 mines and 2 preparation plants in the peat industry.

² The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations represent operations of 1 company in the crude-petroleum and natural-gas industry.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ Includes statistics for central-office employees in the crude-petroleum and natural-gas and the natural sodium compounds industries.

⁶ Contract-service operators were not asked to report expenditures for contract work.

⁷ Includes statistics for contract-service operations.

⁸ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IOWA, BY COUNTY: 1936

(For producing operations only)

ITEM	State	Adams	Appanoose	Black Hawk	Boone	Carro Gorda	Dallas
Number of operating companies ¹	585	10	55	4	15	6	7
Number of mines and quarries	585	10	57	4	14	7	7
Number of preparation plants	91	1	—	4	2	6	1
Value of all products	\$10,815,210	\$77,250	\$862,625	\$34,262	\$750,762	\$520,410	\$1,120,235
Number of persons engaged, total	6,260	80	1,018	38	508	150	654
Wage earners (average for the year)	5,580	68	933	27	467	158	553
Salaried employees	339	—	33	4	58	11	18
Proprietors and firm members	341	12	52	7	3	1	3
Performing manual labor	223	11	40	1	1	—	2
Principal expenses designated below, total	\$7,922,844	\$57,008	\$709,952	\$62,004	\$706,653	\$327,885	\$915,215
Wages	\$5,481,618	\$49,875	\$575,079	\$32,580	\$510,248	\$197,560	\$758,299
Salaries	\$870,137	—	\$54,118	\$6,125	\$87,771	\$25,868	\$58,777
Supplies and materials	\$1,146,724	\$5,258	\$84,160	\$7,782	\$77,317	\$70,445	\$62,522
Fuel	\$309,254	\$1,249	\$5,552	\$6,541	\$4,478	\$28,427	\$11,810
Purchased electric energy	\$361,613	\$651	\$30,550	\$7,226	\$34,841	\$7,786	\$45,007
Contract work	\$55,498	—	\$512	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$548,315	—	\$5,194	\$7,845	\$169	\$11,928	\$18,020
Buildings	\$46,048	—	\$1,525	—	\$100	\$1,961	\$7,196
Machinery and equipment	\$502,269	—	\$5,869	\$7,845	\$69	\$9,967	\$10,822
Horsepower rating of prime movers and electric motors driven by purchased energy, total	84,849	520	5,536	1,410	2,854	2,986	4,868
Prime movers	29,486	420	1,175	610	819	1,906	645
Electric motors driven by purchased energy	55,463	100	2,585	800	2,115	1,080	4,223
Horsepower rating of electric motors driven by energy generated by reporting companies	4,943	—	108	—	10	1,674	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	216	—	—	—	—	216	—
Bituminous coal (tons of 2,000 pounds)	20,008	8	509	15	1,433	3,418	1,273
Fuel oils (barrels of 42 gallons)	10,744	47	272	126	108	—	—
Gasoline and kerosene (gallons)	1,594,465	8,592	53,924	67,512	8,500	28,802	70,400
Natural gas (thousands of cubic feet)	18,019	—	—	—	—	18,019	—
Electric energy consumed (thousands of kw.-hrs.), total	50,513	27	1,018	554	11,852	1,153	1,662
Purchased	26,780	27	967	534	11,845	372	1,662
Generated by reporting companies	5,553	—	51	—	8	781	—

ITEM	Greene	Guthrie	Hardin	Jackson	Jasper	Johnson	Jones	Linn
Number of operating companies ²	5	4	3	4	5	3	1	5
Number of mines and quarries	5	4	3	4	5	3	1	5
Number of preparation plants	—	—	—	—	—	—	—	—
Value of all products	\$58,056	\$72,695	\$104,778	\$100,484	\$74,990	\$105,789	\$11,785	\$140,975
Number of persons engaged, total	41	84	55	30	59	45	16	32

ERRATA

The following figures should be inserted in blank space on page 63.

	Jasper	Johnson	Jones	Linn
Principal expenses designated below, total—	\$63,694	\$86,250	\$8,324	\$56,210
Wages—	\$51,728	\$35,641	\$7,217	\$21,858
Salaries—	\$3,369	\$11,700	—	\$7,045
Supplies and materials—	\$5,249	\$24,953	\$200	\$11,862
Fuel—	\$533	\$8,099	\$657	\$8,870
Purchased electric energy—	\$2,815	\$5,857	\$250	\$6,575
Contract work—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year—	\$853	\$33,983	—	\$918
Buildings—	\$300	\$546	—	—
Machinery and equipment—	\$553	\$33,437	—	\$918

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN IOWA, BY COUNTY: 1939—Continued

(For producing operations only)

ITEM	Lucas	Mahaska	Marion	Marshall	Monroe	Muscatine	Page	Polk
Number of operating companies ¹	6	26	59	4	16	4	5	20
Number of mines and quarries	6	26	59	5	16	4	6	20
Number of preparation plants		2		5		4		4
Value of all products	\$611,102	\$644,175	\$1,116,168	\$97,925	\$219,856	\$179,874	\$97,559	\$1,020,866
Number of persons engaged, total	553	261	612	42	205	58	70	647
Wage earners (average for the year)	537	221	525	31	186	44	67	587
Salaried employees	9	12	17	5	10	9	5	50
Proprietors and firm members	7	28	70	6	7	5	6	10
Performing manual labor	7	19	49	2	6	5	4	5
Principal expenses designated below, total	\$526,721	\$429,951	\$755,061	\$69,965	\$189,145	\$121,578	\$75,448	\$665,478
Wages	\$413,029	\$226,858	\$555,526	\$37,564	\$154,859	\$48,612	\$59,466	\$625,956
Salaries	\$19,512	\$20,016	\$24,954	\$4,108	\$6,918	\$21,475	\$7,108	\$6,152
Supplies and materials	\$75,002	\$116,077	\$112,899	\$9,577	\$18,625	\$21,889	\$5,882	\$66,057
Fuel	\$2,115	\$52,596	\$55,441	\$12,132	\$5,612	\$11,709	\$892	\$9,675
Purchased electric energy	\$21,063	\$20,174	\$8,781	\$5,787	\$850	\$17,745	\$2,090	\$47,899
Contract work		\$14,408			\$1,919			
Cost of buildings, machinery, and equipment erected or installed during year	\$440	\$17,999	\$46,557	\$6,446	\$8,515	\$24,270	\$250	\$9,156
Buildings		\$760	\$9,840		\$1,481			\$1,013
Machinery and equipment	\$440	\$17,239	\$36,717	\$6,446	\$7,032	\$24,270	\$250	\$8,128
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,296	5,079	2,974	740	728	3,505	558	5,401
Prime movers	186	5,814	2,504	615	644	1,183	60	1,069
Electric motors driven by purchased energy	2,110	1,265	470	125	85	2,141	278	4,532
Horsepower rating of electric motors driven by energy generated by reporting companies	55	410	147					
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	648	1,151	1,556	775	944	95		1,554
Bituminous coal (tons of 2,000 pounds)	48	4,527	2,065	111	185		74	139
Fuel oils (barrels of 42 gallons)	5,400	128,862	202,562	58,566	22,906	137,509	5,154	41,675
Gasoline and kerosene (gallons)								
Natural gas (thousands of cubic feet)								
Electric energy consumed (thousands of kw.-hrs.), total	1,015	1,170	250	206	21	1,278	54	2,281
Purchased	1,005	1,002	237	206	21	1,278	54	2,291
Generated by reporting companies	10	168	15					

ITEM	Taylor	Van Buren	Wapello	Warren	Wayne	Webster	Worth	All other ²
Number of operating companies ¹	5	7	29	6	5	18	5	52
Number of mines and quarries	5	6	29	6	5	17	5	50
Number of preparation plants		2	2			9	5	50
Value of all products	\$87,512	\$112,751	\$420,042	\$174,297	\$55,901	\$802,176	\$52,723	\$1,067,886
Number of persons engaged, total	44	78	255	112	79	249	26	875
Wage earners (average for the year)	38	65	214	100	69	227	22	505
Salaried employees	4	6	4	9		16		42
Proprietors and firm members	2	8	27	5	10	6	2	28
Performing manual labor	2	6	25	5	6	2	1	10
Principal expenses designated below, total	\$45,821	\$81,116	\$328,575	\$142,449	\$45,880	\$415,995	\$25,587	\$620,868
Wages	\$30,186	\$49,455	\$218,517	\$91,281	\$36,842	\$278,945	\$15,614	\$285,799
Salaries	\$5,470	\$7,550	\$9,580	\$17,570		\$54,172	\$5,957	\$54,844
Supplies and materials	\$8,595	\$8,975	\$79,928	\$15,768	\$5,891	\$75,224	\$928	\$145,280
Fuel	\$180	\$8,945	\$16,212	\$4,480	\$972	\$5,845	\$1,068	\$66,841
Purchased electric energy	\$1,610	\$5,715	\$4,556	\$12,950	\$675	\$17,245	\$40	\$39,540
Contract work		\$500				\$4,564		\$51,462
Cost of buildings, machinery, and equipment erected or installed during year	\$1,150	\$5,511	\$4,979	\$1,910		\$44,305	\$15,570	\$77,155
Buildings		\$824	\$1,750	\$859		\$7,000	\$4,800	\$6,289
Machinery and equipment	\$1,150	\$4,687	\$3,229	\$1,051		\$37,305	\$8,770	\$70,864
Horsepower rating of prime movers and electric motors driven by purchased energy, total	217	1,216	2,065	1,707	123	4,909	175	10,986
Prime movers	50	621	1,414	850	120	656	170	6,900
Electric motors driven by purchased energy	167	595	649	1,577	5	4,275	5	4,086
Horsepower rating of electric motors driven by energy generated by reporting companies			18	115		88		2,275
Fuels consumed:								
Anthracite (tons of 2,000 pounds)								
Bituminous coal (tons of 2,000 pounds)		79	944	2,882				3,694
Fuel oils (barrels of 42 gallons)	13	251	50	57		156		1,707
Gasoline and kerosene (gallons)	925	62,556	102,591	5,571	5,615	37,110	9,500	520,586
Natural gas (thousands of cubic feet)								
Electric energy consumed (thousands of kw.-hrs.), total	45	250	244	672		1,498	1	4,225
Purchased	45	250	228	508		1,495	1	1,866
Generated by reporting companies			16	164		5		2,555

¹ Companies with operations in more than one county are counted only once in the totals.² Benton, Bremer, Butler, Carroll, Cherokee, Clarke, Clayton, Clinton, Davis, Des Moines, Dickinson, Dubuque, Emmet, Fayette, Floyd, Franklin, Humboldt, Iowa, Jefferson, Keokuk, Lyon, Madison, Mitchell, Osceola, Sac, Scott, Sioux, Tama, Washington, Woodbury, and central offices in Pottawattamie county.

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Kansas ranked tenth among the States in value of products of mineral industries in 1939 and fourteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 51 percent of that in 1929, and the number of wage earners 63 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 84 percent of that in 1919, and the number of wage earners 67 percent. Differences between the totals for 1939 and 1929 are accounted for chiefly by decreases in the zinc-ore and bituminous-coal industries; between 1939 and 1919 totals, by declines in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 89 percent of that in 1929, but 253 percent of that in 1919.

The crude-petroleum and natural-gas industry ranked first among the mineral industries in the State in 1939, accounting for 81 percent of the total value of products and 55 percent

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

of the total number of wage earners. The bituminous-coal industry ranked second, with 7 percent of the value of products and 21 percent of the wage earners. The zinc-ore industry was third, with 5 percent of the value of products and 12 percent of the wage earners. Kansas ranked second among all States in the zinc-ore industry, accounting for 13 percent of the value of products of the zinc-ore industry in the United States. The State also accounted for 7 percent of the value of products of the natural-abrasives industry, and 13 percent of the value of products of the rock-salt industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, limestone, sandstone, common sand and gravel, common clay and shale, gypsum, native asphalt and bitumens, pyrites, and tripoli. Mineral operations (other than oil and gas wells) were located in 48 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN KANSAS: 1939, 1929, AND 1919¹

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, and rock-salt industries)		1929 AND 1919 (Excluding the common clay and shale, sand and gravel, and rock-salt industries)	
		1929	1929	1929 ²	1919
Number of mines and quarries—	212	199	292	161	236
Number of oil and gas wells producing at end of year—	20,258			20,258	12,690
Number of natural gasoline plants—	18			18	11
Value of all products—	\$77,530,736	\$11,406,949	\$22,465,509	\$75,845,845	\$90,089,851
Number of persons engaged, total—	15,327	5,069	7,958	12,705	18,689
Wage earners (average for the year)—	11,290	4,612	7,207	10,771	16,186
Salaried employees—	1,475	291	592	1,401	1,746
Proprietors and firm members—	562	156	249	523	907
Performing manual labor—	192	109	(³)	180	123
Principal expenses designated below, total—	\$56,475,200	\$7,597,641	\$14,695,926	\$55,445,040	\$66,649,542
Wages—	\$12,775,547	\$4,228,772	\$6,465,591	\$12,249,675	\$21,946,799
Salaries—	\$5,259,525	\$555,446	\$1,027,365	\$5,114,511	\$5,299,894
Supplies and materials—	\$5,710,659	\$1,851,966	\$3,558,429	\$5,510,596	\$53,097,830
Fuel—	\$1,166,792	\$255,572	\$360,506	\$1,077,419	\$4,067,086
Purchased electric energy—	\$1,229,687	\$364,187	\$1,072,998	\$1,176,028	\$258,457
Contract work—	\$12,522,990	\$41,696	\$214,240	\$12,516,115	\$5,997,644
Cost of machinery and equipment installed during year—	\$5,645,782	\$358,849	\$980,580	\$5,560,510	(³)
Horsepower rating of power equipment, total—	557,585	66,360	76,886	539,465	133,994
Per wage earner—	31.7	14.6	10.5	31.5	8.3
Prime movers—	280,904	50,495	29,561	270,167	121,477
Electric motors driven by purchased energy—	75,479	17,867	47,327	69,278	12,507
Electric energy consumed (thousands of kw.-hrs.), total—	104,551	51,271	65,870	100,111	(³)
Purchased—	90,456	44,999	65,521	86,948	(³)
Generated by reporting companies—	14,095	6,272	549	13,163	(³)

¹ Statistics for 1939 include 1 tripoli mine in Oklahoma.

² Includes 8 limestone quarries, with products valued at \$444,608, operated in conjunction with cement plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KANSAS, BY INDUSTRY: 1939¹

ITEM	All operations in all industries ¹	PRODUCING OPERATIONS ²						
		Total	Fuels			Zinc ore	Limestone	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal		Crushed and broken	Rough-dimen- sion
Number of operating companies ³	894	748	546	11	91	26	25	7
Number of mines and quarries	215	212			95	26	27	7
Number of oil and gas wells producing on December 31, 1939	20,258	20,258	20,258					
Number of preparation plants	125	124		18	6	20	24	2
Value of all products ⁴	\$89,444,407	\$77,580,756	\$65,018,725	\$2,140,420	\$5,057,992	\$4,187,802	\$1,060,385	\$78,458
Number of persons engaged, total	15,558	15,527	7,680	253	2,597	1,599	512	77
Wage earners (average for the year)	15,971	11,290	6,155	218	2,578	1,518	471	68
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	15,951	11,596	6,114	226	2,692	1,253	406	53
February	15,474	11,255	6,053	226	2,852	1,195	290	54
March	15,532	11,320	6,068	225	2,578	1,501	411	83
April	15,870	10,910	6,111	226	2,027	1,282	487	75
May	15,706	10,890	6,297	224	1,759	1,319	511	78
June	15,545	10,663	6,248	227	1,575	1,255	518	117
July	15,504	10,758	6,517	226	1,657	1,225	564	84
August	15,799	11,013	6,176	219	2,124	1,214	550	56
September	15,918	11,255	6,990	205	2,526	1,272	510	54
October	14,669	11,073	6,225	207	2,737	1,413	510	118
November	15,122	12,123	6,212	205	2,912	1,556	499	52
December	14,776	11,851	6,072	195	2,897	1,528	451	46
Salaried employees	1,664	1,475	1,119	55	124	68	50	4
Proprietors and firm members	725	562	406		97	15	11	5
Performing manual labor	247	192	85		84	8	3	2
Principal expenses designated below, total	\$40,822,922	\$38,475,200	\$27,550,321	\$775,707	\$5,314,541	\$2,763,670	\$780,965	\$51,475
Wages	\$18,562,656	\$12,775,547	\$7,902,017	\$321,462	\$1,952,167	\$1,489,577	\$447,275	\$37,580
Salaries	\$8,567,473	\$3,259,525	\$2,554,566	\$65,439	\$235,244	\$181,806	\$56,796	\$5,725
Supplies and materials	\$5,723,501	\$5,710,659	\$5,591,447	\$152,024	\$778,029	\$765,996	\$186,059	\$1,048
Fuel	\$1,170,578	\$1,166,792	\$686,206	\$202,781	\$32,538	\$97,185	\$46,587	\$7,456
Purchased electric energy	\$1,250,862	\$1,259,967	\$554,605	\$9,501	\$534,932	\$320,811	\$40,758	\$1,734
Contract work	\$12,418,234	\$12,522,990	\$12,249,485	\$24,780	\$1,851	\$58,517	\$1,550	
Cost of buildings, machinery, and equipment erected or installed during year	\$10,423,956	\$10,375,046	\$9,771,866	\$181,674	\$122,954	\$109,063	\$57,674	\$15,478
Buildings	\$751,925	\$751,284	\$674,186	\$6,459	\$10,520	\$20,575	\$2,406	\$2,082
Machinery and equipment, total	\$9,662,031	\$9,643,762	\$9,097,680	\$175,215	\$112,434	\$88,488	\$55,268	\$13,394
Purchased in new condition	\$8,571,517	\$8,554,502	\$8,054,044	\$171,995	\$94,565	\$70,589	\$52,071	\$5,740
Purchased in used condition	\$1,120,494	\$1,109,480	\$1,043,636	\$22	\$18,069	\$18,299	\$5,197	\$5,654
Number of man-hours worked by wage earners	23,475,960	19,571,784	10,362,955	440,217	3,664,219	2,661,678	912,658	112,525
Average hourly earning of wage earners	\$0.70	\$0.65	\$0.76	\$0.73	\$0.53	\$0.52	\$0.49	\$0.55
Horsepower rating of prime movers and electric motors driven by purchased energy, total	459,559	557,583	287,172	17,518	22,795	18,228	9,824	1,897
Per wage earner	31.5	31.7	45.4	80.4	9.6	15.8	20.9	20.5
Prime movers	558,621	280,904	250,127	17,535	8,496	7,087	5,056	1,172
Electric motors driven by purchased energy	80,918	76,479	57,045	183	14,509	11,161	4,768	225
Horsepower rating of electric motors driven by energy generated by reporting companies	18,235	15,871	5,156	1,379	32	1,681	5,586	
Fuels consumed:								
Bituminous coal (tons of 2,000 pounds)	20,234	20,133	147		15,576	892	4,802	
Fuel oils (barrels of 42 gallons)	72,964	72,964	57,044	5,245	609	7,650	123	
Gasoline and kerosene (gallons)	2,869,507	2,856,007	1,842,919	12,950	95,181	120,595	252,056	69,749
Natural gas (thousands of cubic feet)	10,946,618	10,945,509	7,116,278	3,505,481		508,622	6,250	
Electric energy consumed (thousands of kw.-hrs.), total	105,665	104,651	45,746	5,807	20,296	22,147	5,241	29
Purchased	91,672	90,456	43,612	848	20,288	18,178	2,904	29
Generated by reporting companies	14,093	14,095	1,934	4,959	28	3,969	2,337	

¹ Includes 1 tripoli mine in Oklahoma.² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Includes statistics for contract-office employees in the Vermilion industry.⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.⁶ Includes statistics for contract-service operations.⁷ No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KANSAS, BY INDUSTRY: 1939¹—Continued

ITEM	PRODUCING OPERATIONS ¹ —Continued					Contract- service operations ²	Nonproducing operations ³
	Common sand and gravel	Common clay and shale	Natural abra- sives	Rock salt	All other ⁴		
Number of operating companies ²	35	6	5	5	6	167	14
Number of mines and quarries	38	8	5	5	5		1
Number of oil and gas wells producing on December 31, 1939							
Number of preparation plants	38	2	5	5	6		1
Value of all products ³	\$722,249	\$86,228	\$90,969	\$896,414	\$222,096	\$11,913,871	
Number of persons engaged, total	287	25	23	310	160	2,989	42
Wage earners (average for the year)	214	25	22	290	145	2,635	28
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	165	25	24	279	159	2,350	15
February	160	25	24	277	159	2,204	15
March	196	33	24	277	144	2,255	17
April	227	33	22	275	165	2,651	29
May	242	29	17	275	159	2,790	26
June	242	34	19	275	157	2,659	24
July	259	24	16	275	155	2,717	29
August	220	25	17	287	146	2,753	35
September	224	20	23	289	152	2,640	25
October	215	18	27	287	118	2,765	31
November	241	18	24	289	115	2,965	56
December	195	20	22	294	141	2,880	65
Salaried employees	44		1	50	16	186	3
Proprietors and firm members	29				1	150	11
Performing manual labor	12					52	2
Principal expenses designated below, total	\$480,629	\$45,894	\$45,532	\$504,637	\$155,991	\$4,185,946	\$161,876
Wages	\$202,598	\$25,711	\$24,628	\$297,565	\$95,199	\$3,543,279	\$45,830
Salaries	\$71,240		\$2,450	\$73,674	\$18,565	\$686,188	\$1,980
Supplies and materials	\$84,841	\$9,034	\$4,985	\$106,196	\$29,028	\$2,771	\$6,871
Fuel	\$58,687	\$5,155	\$10,665	\$17,535	\$2,118	\$2,626	\$1,156
Purchased electric energy	\$53,063	\$2,129	\$2,626	\$2,667	\$10,261	(⁵)	\$10,785
Contract work		\$6,877				(¹¹)	\$95,244
Cost of buildings, machinery, and equipment erected or installed during year	\$57,068	\$620	\$3,500	\$36,819	\$40,532	(⁶)	\$48,890
Buildings	\$6,634			\$2,401	\$1,001	(⁵)	\$661
Machinery and equipment, total	\$48,234	\$620	\$3,500	\$34,418	\$39,531	(⁵)	\$48,229
Purchased in new condition	\$31,850		\$1,750	\$32,767	\$35,531	(⁵)	\$37,215
Purchased in used condition	\$16,384	\$620	\$1,750	\$1,651		(⁵)	\$11,014
Number of man-hours worked by wage earners	435,994	49,439	41,296	496,065	192,760	5,642,775	61,406
Average hourly earning of wage earners	\$0.46	\$0.52	\$0.60	\$0.60	\$0.49	\$0.92	\$0.71
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,585	666	875	3,667	1,656	80,006	2,150
Per wage earner	63.5	26.6	39.8	13.1	11.6	30.2	76.8
Prime movers	7,768	561	350	2,368	594	77,155	582
Electric motors driven by purchased energy	5,817	105	525	1,279	1,062	2,871	1,568
Horsepower rating of electric motors driven by energy generated by reporting companies	150	70		1,602	215	2,564	
Fuels consumed: ⁷							
Bituminous coal (tons of 2,000 pounds)	225	278			225	(¹¹)	101
Fuel oils (barrels of 42 gallons)	2,661		1,262		380	(¹¹)	
Gasoline and kerosene (gallons)	509,541	9,938	41,000		2,500	(¹¹)	4,500
Natural gas (thousands of cubic feet)	21,969	5,782	22,565	154,780	1,032	(¹¹)	1,107
Electric energy consumed (thousands of kw.-hrs.), total	2,715	189	121	1,888	724	(¹¹)	1,114
Purchased	2,711	90	121	806	686	(¹¹)	1,114
Generated by reporting companies	2	49		779	56	(¹¹)	

¹ Includes 1 tripoli mine in Oklahoma.² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.⁵ No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.⁶ Represents 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 2 mines and 2 preparation plants in the gypsum industry, 1 mine and 1 preparation plant in the native asphalt and bitumens industry, 1 preparation plant in the pyrites industry, and 1 mine (located in Oklahoma) and 1 mill in the tripoli industry.⁷ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.⁸ Of the 14 operating companies, 12 were in the crude-petroleum and natural-gas industry.⁹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KANSAS, BY COUNTY: 1939¹
(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State ¹	Allen	Bourbon	Butler	Cherokee ¹	Cowley	Crawford	Franklin	Johnson	Labette
Number of operating companies ²	210	5	5	5	40	7	45	5	5	5
Number of mines and quarries	212	5	5	5	59	4	45	5	5	5
Number of preparation plants	124	2	2	5	24	4	5	1	4	1
Value of all products	\$14,512,011	\$145,798	\$215,064	\$68,543	\$5,591,585	\$225,145	\$3,193,151	\$82,088	\$99,188	\$28,710
Number of persons engaged, total	5,647	58	96	59	1,675	85	1,474	54	55	20
Wage earners (average for the year)	5,135	58	89	55	1,566	71	1,348	46	47	14
Salaried employees	556	—	1	5	86	7	95	1	3	—
Proprietors and firm members	186	—	6	1	25	5	55	7	5	6
Performing manual labor	109	—	6	—	18	3	27	7	—	4
Principal expenses designated below, total	\$8,924,879	\$108,768	\$185,550	\$42,499	\$3,395,517	\$155,564	\$2,251,204	\$47,714	\$54,838	\$18,772
Wages	\$4,875,550	\$78,725	\$100,795	\$25,019	\$1,815,665	\$80,964	\$1,276,182	\$35,915	\$33,748	\$11,471
Salaries	\$694,759	—	\$4,850	\$4,411	\$182,141	\$11,989	\$212,068	\$741	\$4,551	—
Supplies and materials	\$2,119,212	\$18,535	\$47,171	\$5,196	\$952,452	\$19,590	\$512,888	\$6,900	\$9,195	\$5,198
Fuel	\$478,569	\$5,575	\$5,988	\$4,062	\$90,998	\$20,558	\$22,199	\$1,940	\$2,298	\$2,929
Purchased electric energy	\$685,284	\$185	\$26,528	\$2,271	\$315,564	\$58	\$206,246	\$2,211	\$5,248	\$74
Contract work	\$78,505	—	—	\$1,550	\$89,517	\$97	\$1,621	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$808,180	\$2,451	\$12,519	\$5,290	\$116,808	\$9,754	\$99,255	\$1,400	\$12,442	\$250
Buildings	\$57,078	—	—	\$700	\$20,900	\$2,206	\$9,620	—	\$3,188	\$100
Machinery and equipment	\$546,102	\$2,451	\$12,519	\$4,590	\$95,708	\$7,548	\$89,615	\$1,400	\$9,254	\$150
Horsepower rating of prime movers and electric motors driven by purchased energy, total	90,211	544	2,525	1,208	22,453	5,773	15,892	315	1,455	1,088
Prime movers	50,777	294	954	783	8,872	5,753	5,934	116	788	852
Electric motors driven by purchased energy	59,434	50	1,575	425	15,561	40	9,958	199	665	156
Horsepower rating of electric motors driven by energy generated by reporting companies	10,715	2,297	—	—	1,713	65	—	—	—	—
Fuels consumed: ³										
Bituminous coal (tons of 2,000 pounds)	19,998	1,429	1,258	195	2,911	—	8,865	100	250	1,100
Fuel oils (barrels of 42 gallons)	15,820	—	125	58	7,669	—	175	11	—	64
Gasoline and kerosene (gallons)	1,115,068	10,976	19,748	26,967	155,351	75,910	65,198	15,075	15,347	11,840
Natural gas (thousands of cubic feet)	3,829,251	2,250	—	—	305,622	501,518	—	—	4,000	—
Electric energy consumed (thousands of kw.-hrs.), total	58,805	358	1,757	89	27,959	1,012	12,277	96	257	53
Purchased	46,846	4	1,757	89	25,942	12	12,277	96	257	53
Generated by reporting companies	12,158	554	—	—	5,997	1,000	—	—	—	—

ITEM	Lincoln	Marshall	Montgomery	Osage	Reno	Rice	Sedgwick	Shawnee	Sumner	Wyandotte	All other ⁴
Number of operating companies ²	9	3	3	18	8	5	7	7	5	8	36
Number of mines and quarries	9	3	3	19	4	4	6	8	2	9	35
Number of preparation plants	1	5	2	—	7	4	7	8	3	9	56
Value of all products	\$45,230	\$96,780	\$68,801	\$228,445	\$625,005	\$800,906	\$659,894	\$161,064	\$20,659	\$405,597	\$2,896,681
Number of persons engaged, total	59	46	28	255	124	120	62	119	9	156	1,142
Wage earners (average for the year)	49	56	22	229	94	107	49	99	7	114	1,057
Salaried employees	—	10	1	—	25	10	11	13	2	21	67
Proprietors and firm members	10	—	—	26	5	5	2	7	—	1	18
Performing manual labor	8	—	—	25	2	2	1	2	—	1	5
Principal expenses designated below, total	\$57,537	\$65,184	\$55,921	\$195,645	\$544,170	\$178,085	\$157,261	\$127,481	\$16,550	\$262,475	\$1,275,586
Wages	\$24,988	\$55,586	\$34,742	\$166,246	\$125,615	\$110,466	\$80,584	\$58,282	\$5,844	\$114,150	\$558,275
Salaries	\$10,898	\$5,447	—	\$57,729	\$16,552	\$25,960	\$24,028	\$5,500	\$42,666	\$91,398	\$275,558
Supplies and materials	\$11,135	\$10,428	\$15,132	\$21,551	\$78,575	\$39,945	\$34,768	\$17,071	\$2,177	\$45,505	\$278,856
Fuel	\$1,255	\$6,513	\$8,645	\$447	\$24,754	\$5,046	\$28,374	\$15,174	\$1,701	\$9,850	\$154,506
Purchased electric energy	\$179	\$1,761	\$555	\$7,611	\$1,213	\$4,798	\$9,555	\$11,946	\$2,508	\$30,284	\$55,255
Contract work	—	—	—	\$210	\$284	—	—	—	—	—	\$31,225
Cost of buildings, machinery, and equipment erected or installed during year	—	\$4,954	\$620	\$8,855	\$54,944	\$1,661	\$9,817	\$12,742	—	\$35,638	\$242,800
Buildings	—	\$500	—	\$375	\$1,611	\$849	\$221	\$5,185	—	\$1,500	\$12,325
Machinery and equipment	—	\$4,654	\$620	\$8,480	\$53,333	\$812	\$9,596	\$8,557	—	\$32,138	\$229,877
Horsepower rating of prime movers and electric motors driven by purchased energy, total	452	1,970	575	1,557	4,308	2,522	5,045	2,556	565	4,578	21,498
Prime movers	449	1,729	545	370	4,277	1,708	2,758	1,045	395	910	16,212
Electric motors driven by purchased energy	5	241	50	987	26	819	309	1,491	170	5,468	5,281
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	840	—	891	740	107	—	—	—	4,062
Fuels consumed: ³											
Bituminous coal (tons of 2,000 pounds)	550	—	611	141	—	—	25	—	—	—	2,615
Fuel oils (barrels of 42 gallons)	22	27	—	15	—	—	455	150	—	255	6,999
Gasoline and kerosene (gallons)	5,890	57,718	1,590	2,090	37,525	8,555	47,927	155,710	12,680	78,456	552,042
Natural gas (thousands of cubic feet)	1,052	—	5,782	—	1,198,737	70,994	311,114	—	10,000	—	1,620,182
Electric energy consumed (thousands of kw.-hrs.), total	10	130	367	239	751	742	1,553	790	68	1,855	8,542
Purchased	10	130	35	239	68	591	832	790	68	1,855	5,561
Generated by reporting companies	—	—	332	—	665	151	701	—	—	—	4,981

¹Includes 1 mine in Ottawa County, Oklahoma.²Companies with operations in more than 1 county are counted only once in the totals.³No anthracite was reported consumed.⁴Anderson, Atchison, Barber, Barton, Cloud, Doniphan, Douglas, Elk, Ellsworth, Geary, Greenwood, Harper, Harvey, Jewell, Kingman, Leavenworth, Lincoln, Lyon, McPherson, Maize, Meade, Norton, Pawnee, Phillips, Riley, Saline, Seward, Stevens, and Wilson.

KENTUCKY

Kentucky ranked ninth among the States in value of products of mineral industries in 1939 and third in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 78 percent of that in 1929, and the number of wage earners 86 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 91 percent of that in 1919, and the number of wage earners 117 percent. Differences between totals for 1939 and 1929 are accounted for chiefly by decreases in the bituminous-coal industry; between those for 1939 and 1919, by a decline in the value of products for the crude-petroleum and natural-gas industry, and by an increase in employment in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 94 percent of that in 1929, but 214 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 81 percent of the total value of products and 91 percent of the total num-

ber of wage earners. The crude-petroleum and natural-gas industry ranked second, with 10 percent of the value of products and 3 percent of the wage earners. The State ranked fourth among all States in the bituminous-coal industry on the basis of coal produced and value of products, and third in number of wage earners, accounting for 11 percent of the tonnage of coal and 13 percent of the wage earners. Kentucky ranked first among all States in the fluorspar industry, accounting for 48 percent of the value of products of the industry in the United States; second in the native asphalt and bitumens industry, accounting for 31 percent of the value of products; and third in the kaolin and ball-clay industry, accounting for 8 percent of the value of products. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, lead ore, zinc ore, limestone, sandstone, common sand and gravel, foundry sand, fire clay, and common clay and shale. Mineral operations (other than oil and gas wells) were located in 81 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929		1939 AND 1919	
		(Excluding the common clay and shale, crude-petroleum and natural-gas, and natural-gasoline industries)		(Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1929 ¹	1919
Number of mines and quarries—	615	604	629	599	864
Number of oil and gas wells producing at end of year—	9,868	—	—	9,868	5,214
Number of natural-gasoline plants—	6	—	—	6	7
Value of all products—	\$91,284,784	\$81,129,427	\$105,549,625	\$90,045,395	\$98,445,806
Number of persons engaged, total—	54,001	52,269	61,241	53,645	47,895
Wage earners (average for the year)—	51,278	49,745	57,818	50,966	45,565
Salaried employees—	2,370	2,215	5,215	2,132	5,944
Proprietors and firm members—	353	311	210	547	586
Performing manual labor—	189	182	(*)	189	115
Principal expenses designated below, total—	\$71,558,858	\$67,892,619	\$85,546,856	\$70,740,865	\$78,267,759
Wages—	\$52,172,385	\$50,812,560	\$62,788,640	\$51,866,599	\$49,550,589
Salaries—	\$4,805,797	\$4,265,787	\$6,599,105	\$4,801,616	\$7,510,616
Supplies and materials—	\$10,210,706	\$9,504,960	\$12,094,202	\$10,081,215	\$15,618,991
Fuel—	\$765,329	\$692,448	\$908,997	\$674,986	\$1,957,821
Purchased electric energy—	\$2,560,958	\$2,558,968	\$3,095,216	\$2,550,422	\$584,928
Contract work—	\$1,043,115	\$159,151	\$71,756	\$1,042,635	\$3,265,715
Cost of machinery and equipment installed during year—	\$2,784,150	\$2,095,135	\$5,051,521	\$2,709,596	(*)
Horsepower rating of power equipment, total—	325,424	299,747	317,973	319,867	148,893
Per wage earner—	6.3	6.0	5.5	6.3	5.4
Prime movers—	92,670	87,107	79,404	87,511	102,176
Electric motors driven by purchased energy—	252,754	232,640	238,569	231,356	46,717
Electric energy consumed (thousands of kw.-hrs.), total—	208,464	208,282	251,560	208,097	(*)
Purchased—	176,582	176,483	175,731	176,195	(*)
Generated by reporting companies—	31,902	31,799	75,829	31,902	(*)

¹ Includes 1 limestone mine operated in conjunction with a lime plant. Such mines were not included in the census of mineral industries for 1919.

² Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Fuels			Crushed and broken limestone	Sand and gravel	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal		Common sand and gravel	Foundry sand
Number of operating companies ¹	660	637	96	4	424	45	10	3
Number of mines and quarries	617	615			478	56	12	3
Number of oil and gas wells producing on December 31, 1939	9,868	9,868	9,868					
Number of preparation plants	126	126		6	12	56	12	1
Value of all products ²	\$91,806,290	\$91,284,784	\$9,588,020	\$706,139	\$74,165,850	\$2,066,920	\$1,153,899	\$26,232
Number of persons engaged, total	54,222	54,001	1,617	66	49,072	1,189	276	31
Wage earners (average for the year)	51,452	51,278	1,426	65	46,826	1,087	237	29
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	55,182	55,029	1,352	59	51,548	912	133	17
February	54,457	54,305	1,584	56	50,785	689	136	24
March	52,685	52,544	1,362	55	48,779	818	175	48
April	24,237	24,048	1,497	55	19,871	999	220	37
May	37,800	37,612	1,465	61	35,089	1,088	256	41
June	49,546	49,370	1,524	65	44,629	1,147	273	52
July	51,549	51,190	1,516	64	46,413	1,168	283	27
August	53,955	53,745	1,411	70	48,689	1,284	275	15
September	56,940	56,768	1,373	73	51,829	1,541	274	14
October	60,652	60,472	1,435	69	55,439	1,517	296	14
November	61,411	61,209	1,453	70	56,195	1,206	284	50
December	59,236	59,044	1,343	67	54,642	1,069	237	27
Salaries employees	2,597	2,370	151	3	2,000	75	56	1
Proprietors and firm members	585	533	40		246	29	3	1
Performing manual labor	200	189	7		170	8		
Principal expenses designated below, total	\$71,607,899	\$71,556,858	\$5,039,581	\$565,151	\$65,947,552	\$1,251,260	\$565,239	\$15,227
Wages	\$52,536,044	\$52,172,933	\$1,246,270	\$85,184	\$48,674,595	\$822,297	\$245,986	\$8,229
Salaries	\$4,658,399	\$4,605,787	\$380,317	\$7,943	\$3,819,406	\$125,993	\$101,787	\$400
Supplies and materials	\$10,216,716	\$10,219,706	\$472,413	\$226,868	\$8,691,261	\$255,114	\$121,235	\$1,793
Fuel	\$770,761	\$765,329	\$105,761	\$64,046	\$257,728	\$158,604	\$85,299	\$1,970
Purchased electric energy	\$2,566,064	\$2,560,958	\$136	\$1,090	\$2,420,584	\$89,514	\$8,932	\$835
Contract work	\$1,066,615	\$1,045,115	\$884,684		\$84,378			
Cost of buildings, machinery, and equipment erected or installed during year	\$3,367,546	\$3,339,984	\$770,812	\$11,197	\$2,198,741	\$165,048	\$78,212	
Buildings	\$565,759	\$555,854	\$91,620	\$5,094	\$412,270	\$7,721	\$5,568	
Machinery and equipment, total	\$2,790,086	\$2,784,130	\$679,192	\$8,103	\$1,786,471	\$157,327	\$72,844	
Purchased in new condition	\$2,450,664	\$2,426,898	\$579,135	\$8,103	\$1,569,142	\$130,939	\$69,844	
Purchased in used condition	\$339,424	\$357,232	\$100,057		\$217,329	\$26,388	\$5,000	
Number of man-hours worked by wage earners	73,990,797	73,656,111	2,100,240	130,700	65,983,805	2,006,725	546,759	28,419
Average hourly earning of wage earners	\$0.71	\$0.71	\$0.59	\$0.65	\$0.74	\$0.51	\$0.45	\$0.29
Horsepower rating of prime movers and electric motors driven by purchased energy, total	132,077	125,424	22,819	2,248	258,717	23,642	5,186	261
Per wage earner	6.5	6.3	16.0	35.7	5.5	21.7	21.9	9.0
Prime movers	96,908	92,670	22,818	2,185	57,524	16,107	4,525	74
Electric motors driven by purchased energy	235,169	232,754	1	65	221,593	7,535	661	187
Horsepower rating of electric motors driven by energy generated by reporting companies	55,312	55,532			55,112	1,410		
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	1,560	1,560					1,560	
Bituminous coal (tons of 2,000 pounds)	226,098	226,096	186		164,542	16,585	16,030	
Fuel oils (barrels of 42 gallons)	17,254	17,254	1,611		5,219	5,717	3,896	1,000
Gasoline and kerosene (gallons)	1,001,542	1,001,542	125,998		82,235	580,864	87,374	2,000
Natural gas (thousands of cubic feet)	1,013,970	1,013,970	675,124	316,717	21,877	252		
Electric energy consumed (thousands of kw.-hrs.), total	208,638	208,464	35	117	195,111	10,521	297	40
Purchased	176,736	176,562	2	47	170,043	5,951	297	40
Generated by reporting companies	31,902	31,902	33	70	25,068	6,590		

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

² Includes amounts received or due for contract services performed during the year.

³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.

⁴ Excludes statistics for contract-service operations.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ⁶	Nonpro- ducing opera- tions ⁷
	Clay and shale			Fluorspar	Native asphalt and bitumens	All other ⁸		
	Kaolin and ball clay	Fire clay	Common clay and shale					
Number of operating companies ¹	4	10	9	30	3	4	21	7
Number of mines and quarries	4	14	9	30	3	4		4
Number of oil and gas wells producing on December 31, 1939								
Number of preparation plants	2		2	32	2	1		
Value of all products ²	\$597,659	\$548,018	\$81,198	\$1,635,228	\$921,499	\$18,162	\$521,806	
Number of persons engaged, total	161	473	49	721	325	21	196	31
Wage earners (average for the year)	139	449	46	663	294	19	148	26
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	126	433	41	464	138	6	148	6
February	130	431	42	529	95	6	129	6
March	137	438	39	585	102	6	134	5
April	135	392	38	608	181	15	177	12
May	137	377	38	669	357	18	169	19
June	129	391	38	677	429	18	182	24
July	130	380	30	698	445	18	180	29
August	136	361	30	716	462	26	151	59
September	143	454	39	718	450	30	141	31
October	156	554	49	745	368	15	148	32
November	155	586	47	802	348	31	159	43
December	153	565	47	749	126	19	164	50
Salaried employees	21	13	1	39	31	1	13	4
Proprietors and firm members	1	11	2	19		1	29	1
Performing manual labor				4			11	
Principal expenses designated below, total	\$220,551	\$486,932	\$41,507	\$1,006,323	\$396,205	\$7,550	³ \$161,099	\$67,662
Wages	\$66,011	\$410,900	\$29,119	\$548,780	\$200,301	\$5,481	\$139,147	\$25,994
Salaries	\$50,905	\$22,173	\$1,800	\$80,708	\$65,465	\$900	\$18,242	\$9,360
Supplies and materials	\$12,591	\$41,212	\$4,465	\$285,448	\$98,037	\$249	³ \$682	\$5,328
Fuel	\$5,078	\$6,600	\$5,074	\$44,067	\$54,582	\$720	³ \$2,928	\$2,504
Purchased electric energy	\$2,145	\$1,448	\$769	\$35,707			³ \$100	\$4,008
Contract work	\$55,805	\$4,599	\$280	\$11,633			(*)	\$40,500
Cost of buildings, machinery, and equipment erected or installed during year	\$15,455	\$13,173	\$1,700	\$49,168	\$37,978	\$500	³ \$5,719	\$13,643
Buildings	\$811	\$9,015		\$28,370	\$2,597		(*)	\$7,995
Machinery and equipment, total	\$12,644	\$4,160	\$1,700	\$25,798	\$35,381	\$500	(*)	\$5,958
Purchased in new condition	\$12,644	\$2,380	\$1,700	\$20,624	\$32,547		(*)	\$5,626
Purchased in used condition		\$1,800		\$5,174	\$3,044	\$500	(*)	\$2,132
Number of man-hours worked by wage earners	249,128	701,061	91,656	1,548,430	547,250	21,738	195,306	49,580
Average hourly earning of wage earners	\$0.59	\$0.59	\$0.32	\$0.41	\$0.37	\$0.25	\$0.75	\$0.58
Horsepower rating of prime movers and electric motors driven by purchased energy, total	677	1,231	610	6,665	3,250	114	4,238	2,415
Per wage earner	4.9	2.7	15.3	10.1	11.1	6.0	26.6	92.9
Prime movers	294	1,169	560	4,250	3,250	114	4,238	
Electric motors driven by purchased energy	583	62	50	2,419				2,415
Horsepower rating of electric motors driven by energy generated by reporting companies				250	540			
Fuels consumed:								
Anthracite (tons of 2,000 pounds)							(*)	
Bituminous coal (tons of 2,000 pounds)	33	414	567	16,043	12,796	100	(*)	1,202
Fuel oils (barrels of 42 gallons)	493			359	890	69	(*)	
Gasoline and kerosene (gallons)	10,433	\$1,255	13,621	\$2,599	15,470	1,695	(*)	
Natural gas (thousands of cubic feet)							(*)	
Electric energy consumed (thousands of kw.-hrs.), total	78	50	30	2,315	70		(*)	174
Purchased	78	50	30	2,044			(*)	174
Generated by reporting companies				271	70		(*)	

¹ Companies with operations in more than 1 industry are counted only once in the totals.² Includes amounts received or due for contract services performed during the year.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.⁴ Represents 1 mine and 1 mill in the zinc-ore industry, 1 rough-dimension limestone quarry, and 2 rough-dimension sandstone quarries.⁵ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.⁶ Represents operations of companies in the crude-petroleum and natural-gas industry, 5 bituminous-coal mines, and 1 lead-ore mine.⁷ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Ball	Boyd	Breathitt	Butler	Caldwell	Carter	Christian
Number of operating companies ¹	544	48	11	4	6	6	14	5
Number of mines and quarries	613	49	10	4	6	5	18	5
Number of preparation plants	126	1	1			5	4	2
Value of all products	\$81,896,764	\$2,660,695	\$555,288	\$85,555	\$19,021	\$168,586	\$558,512	\$254,499
Number of persons engaged, total	52,584	2,528	122	112	44	80	480	152
Wage earners (average for the year)	49,852	2,568	115	107	58	74	458	156
Salaries employees	2,219	150	1	4		4	14	15
Proprietors and firm members	815	50	8	1	5	2	18	1
Performing manual labor	182	22	4				2	
Principal expenses designated below, total	\$68,519,287	\$2,687,281	\$308,256	\$69,216	\$15,942	\$94,685	\$401,654	\$196,519
Wages	\$50,926,665	\$2,065,965	\$79,182	\$59,268	\$12,555	\$49,745	\$517,817	\$101,524
Salaries	\$4,275,480	\$198,216	\$1,800	\$8,925		\$8,538	\$21,119	\$27,524
Supplies and materials	\$9,758,295	\$270,408	\$186,756	\$780	\$5,108	\$19,725	\$45,290	\$37,228
Fuel	\$659,568	\$15,516	\$40,515	\$245	\$464	\$7,847	\$14,215	\$10,604
Purchased electric energy	\$2,560,822	\$134,511	\$205		\$37	\$11,052	\$1,555	\$20,189
Contract work	\$158,451	\$7,080					\$1,580	
Cost of buildings, machinery, and equipment erected or installed during year	\$2,569,172	\$246,641	\$10,511	\$2,579	\$980		\$59,210	\$12,020
Buildings	\$464,254	\$65,551	\$5,144	\$50	\$780		\$6,905	
Machinery and equipment	\$2,104,918	\$268,090	\$7,167	\$2,529	\$200		\$52,305	\$12,020
Horsepower rating of prime movers and electric motors driven by purchased energy, total	502,605	15,861	1,555	500	284	1,768	2,288	4,565
Prime movers	69,822	2,511	1,485	500	284	1,058	2,058	2,746
Electric motors driven by purchased energy	282,755	15,350	72			750	212	1,617
Horsepower rating of electric motors driven by energy generated by reporting companies	35,512	1,022	75	375			855	
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	1,560							
Bituminous coal (tons of 2,000 pounds)	226,710	6,751	10	200		220	1,475	1,859
Fuel oils (barrels of 42 gallons)	15,645	182	28		59	619	1,070	40
Gasoline and kerosene (gallons)	675,544	5,585	712	225	1,494	56,874	45,882	55,906
Natural gas (thousands of cubic feet)	558,946		151,244					
Electric energy consumed (thousands of kw.-hrs.), total	208,429	9,825	120	105	5	761	865	1,026
Purchased	176,560	8,879	15		5	761	68	1,026
Generated by reporting companies	31,869	1,046	105	105			597	

ITEM	Clay	Crittenden	Daviess	Fayette	Floyd	Graves	Greenup
Number of operating companies ¹	9	22	17	5	20	4	5
Number of mines and quarries	9	19	18	5	25	4	5
Number of preparation plants	9	20	1	2	5	2	
Value of all products	\$324,689	\$1,011,851	\$155,174	\$175,662	\$8,322,809	\$597,659	\$5,241
Number of persons engaged, total	589	511	142	54	5,255	157	10
Wage earners (average for the year)	577	485	125	44	5,050	159	6
Salaries employees	6	51	2	9	205	17	
Proprietors and firm members	6	15	15	1	2	1	4
Performing manual labor	2	5	12	1	1		5
Principal expenses designated below, total	\$275,068	\$694,792	\$104,848	\$76,756	\$7,455,027	\$211,559	\$4,062
Wages	\$199,428	\$566,656	\$70,220	\$55,752	\$5,918,259	\$96,011	\$3,564
Salaries	\$5,419	\$59,715	\$2,100	\$17,008	\$549,858	\$41,715	
Supplies and materials	\$51,255	\$196,548	\$27,581	\$8,957	\$908,605	\$12,591	\$540
Fuel	\$864	\$32,035	\$5,905	\$9,106	\$51,668	\$5,078	\$100
Purchased electric energy	\$17,468	\$26,207	\$962	\$5,951	\$245,595	\$2,145	\$58
Contract work	\$2,817	\$11,655	\$280		\$5,064	\$55,805	
Cost of buildings, machinery, and equipment erected or installed during year	\$11,566	\$40,264	\$425	\$5,815	\$295,674	\$15,455	
Buildings	\$1,500	\$15,720	\$425		\$79,551	\$511	
Machinery and equipment	\$10,066	\$26,544		\$5,815	\$216,123	\$14,644	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,798	4,514	699	1,019	25,011	677	60
Prime movers	811	5,595	649	422	5,540	294	80
Electric motors driven by purchased energy	987	1,519	50	597	19,671	385	
Horsepower rating of electric motors driven by energy generated by reporting companies		2			4,564		
Fuels consumed:							
Anthracite (tons of 2,000 pounds)							
Bituminous coal (tons of 2,000 pounds)		10,895	2,545	327	17,718	55	
Fuel oils (barrels of 42 gallons)	91	522	51			495	15
Gasoline and kerosene (gallons)	2,153	\$9,005	4,279	47,868		10,455	524
Natural gas (thousands of cubic feet)				168	1,500		
Electric energy consumed (thousands of kw.-hrs.), total	795	1,615	44	305	24,105	78	4
Purchased	790	1,614	44	305	18,951	78	4
Generated by reporting companies	5	1			5,154		

¹ Companies with operations in more than one county are counted only once in the totals.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Hancock	Harlan	Henderson	Hopkins	Jackson	Jefferson	Johnson
Number of operating companies ¹	5	42	15	48	9	10	4
Number of mines and quarries	5	52	15	52	9	10	4
Number of preparation plants	1	5	2	1	1	7	—
Value of all products	\$127,645	\$25,923,888	\$270,474	\$5,078,155	\$371,854	\$699,748	\$1,299,408
Number of persons engaged, total	55	13,751	184	5,099	469	266	801
Wage earners (average for the year)	27	13,241	180	2,897	451	178	779
Salaried employees	6	506	14	173	13	88	21
Proprietors and firm members	2	4	10	29	2	2	1
Performing manual labor	2	4	9	19	2	—	1
Principal expenses designated below, total	\$54,168	\$19,788,799	\$215,428	\$5,553,002	\$285,823	\$484,277	\$1,180,179
Wages	\$27,688	\$15,156,465	\$156,467	\$2,255,056	\$204,589	\$168,706	\$927,045
Salaries	\$14,410	\$1,272,175	\$20,248	\$232,142	\$19,280	\$184,457	\$41,658
Supplies and materials	\$4,961	\$2,536,285	\$59,644	\$774,155	\$45,763	\$68,715	\$158,975
Fuel	\$5,815	\$51,958	\$17,025	\$16,888	\$15,803	\$37,156	\$4,822
Purchased electric energy	\$1,293	\$760,150	\$2,044	\$245,315	\$2,008	\$13,975	\$47,580
Contract work	—	\$11,840	—	\$31,471	—	\$260	—
Cost of buildings, machinery, and equipment erected or installed during year	\$25,927	\$408,212	\$15,787	\$285,128	\$5,650	\$58,221	\$68,408
Buildings	\$5,568	\$99,045	\$322	\$71,609	\$250	\$200	\$6,270
Machinery and equipment	\$20,559	\$307,167	\$15,465	\$213,519	\$5,400	\$58,021	\$62,138
Horsepower rating of prime movers and electric motors driven by purchased energy, total	770	73,157	1,470	21,420	763	3,372	6,488
Prime movers	571	1,518	1,180	1,606	630	2,493	686
Electric motors driven by purchased energy	199	71,639	280	19,814	133	879	5,822
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	537	250	648	—	1,076
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	1,580	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	1,165	16,489	10,442	10,287	10,130	10,135	3,481
Fuel oils (barrels of 42 gallons)	214	165	215	781	123	2,229	—
Gasoline and kerosene (gallons)	10,720	8,196	1,355	8,748	2,091	85,130	—
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	65	64,647	332	14,544	318	459	3,778
Purchased	65	62,544	51	14,501	78	459	3,519
Generated by reporting companies	—	2,103	281	43	240	—	259

ITEM	Knott	Knox	Laurel	Lee	Letcher	Livingston	McCreary
Number of operating companies ¹	4	9	12	9	15	8	3
Number of mines and quarries	4	9	13	8	20	9	8
Number of preparation plants	1	1	—	2	1	9	—
Value of all products	\$752,212	\$1,115,157	\$85,182	\$242,258	\$5,721,979	\$694,832	\$1,674,545
Number of persons engaged, total	551	928	116	108	4,396	512	1,028
Wage earners (average for the year)	508	898	100	95	4,185	296	1,008
Salaried employees	23	29	1	4	209	10	19
Proprietors and firm members	—	1	15	7	2	4	1
Performing manual labor	—	1	11	5	2	—	1
Principal expenses designated below, total	\$680,724	\$1,020,747	\$65,807	\$128,482	\$5,646,232	\$588,287	\$1,417,057
Wages	\$517,494	\$781,458	\$47,700	\$63,248	\$5,081,439	\$257,528	\$1,191,802
Salaries	\$40,150	\$55,296	\$1,800	\$10,968	\$579,254	\$25,768	\$66,186
Supplies and materials	\$71,027	\$141,069	\$11,928	\$35,537	\$957,152	\$104,705	\$137,275
Fuel	—	\$5,737	\$656	\$18,602	\$5,096	\$14,788	\$21,796
Purchased electric energy	\$32,053	\$39,187	\$2,425	\$108	\$228,373	\$7,500	—
Contract work	—	—	\$1,100	—	\$18,958	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$4,322	—	\$2,205	\$3,917	\$299,329	\$13,504	\$57,480
Buildings	\$2,253	—	\$5	\$572	\$42,625	\$10,150	\$5,127
Machinery and equipment	\$2,069	—	\$2,200	\$3,345	\$256,504	\$3,754	\$52,353
Horsepower rating of prime movers and electric motors driven by purchased energy, total	3,115	3,092	583	1,051	27,082	2,808	5,342
Prime movers	—	748	273	1,051	77	1,908	5,342
Electric motors driven by purchased energy	3,115	2,344	110	—	27,005	900	—
Horsepower rating of electric motors driven by energy generated by reporting companies	—	228	180	120	35	248	5,745
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	3,077	170	2,122	1,589	5,996	7,126
Fuel oils (barrels of 42 gallons)	—	5	77	22	11	—	2
Gasoline and kerosene (gallons)	—	128	1,978	13,789	288	15,652	65
Natural gas (thousands of cubic feet)	—	—	—	80,645	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	1,576	2,314	270	56	17,965	700	5,975
Purchased	1,576	2,095	170	8	17,954	430	—
Generated by reporting companies	—	219	100	48	31	270	5,975

¹ Companies with operations in more than one county are counted only once in the totals.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN KENTUCKY, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	McLean	Martin	Muhlenberg	Ohio	Perry	Pike	Pulaski
Number of operating companies ¹	4	4	28	14	25	51	4
Number of mines and quarries	4	5	51	15	32	53	4
Number of preparation plants	1	1	1	4		1	
Value of all products	\$12,088	\$406,568	\$2,755,491	\$595,925	\$7,240,750	\$7,253,259	\$55,586
Number of persons engaged, total	16	202	2,781	355	4,496	4,050	50
Wage earners (average for the year)	11	196	2,674	309	4,506	5,868	25
Salaries employees		5	88	9	186	150	2
Proprietors and firm members	5	1	18	15	4	12	3
Performing manual labor	5		14	10	5	1	5
Principal expenses designated below, total	\$9,542	\$312,648	\$5,016,558	\$320,042	\$6,011,555	\$6,111,110	\$29,870
Wages	\$7,626	\$219,656	\$2,042,558	\$254,559	\$4,710,607	\$4,786,860	\$23,134
Salaries		\$14,520	\$164,867	\$15,100	\$344,535	\$311,895	\$1,446
Supplies and materials	\$1,801	\$59,189	\$687,459	\$41,043	\$854,197	\$789,875	\$4,062
Fuel	\$518	\$16,235	\$34,525	\$17,229	\$415	\$6,761	\$227
Purchased electric energy	\$97	\$5,066	\$87,171	\$10,653	\$501,599	\$207,931	\$1,001
Contract work			\$300	\$1,478		\$7,788	
Cost of buildings, machinery, and equipment erected or installed during year		\$5,958	\$54,298	\$5,959	\$191,825	\$96,485	
Buildings			\$6,527		\$627	\$4,206	
Machinery and equipment		\$5,958	\$27,771	\$5,959	\$191,198	\$92,277	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	232	1,040	15,715	1,798	25,062	21,137	880
Prime movers	197	765	5,678	800	50	5,948	650
Electric motors driven by purchased energy	35	275	10,037	998	25,052	15,189	200
Horsepower rating of electric motors driven by energy generated by reporting companies		798	4,555	195		7,500	
Fuels consumed:							
Anthracite (tons of 2,000 pounds)							
Bituminous coal (tons of 2,000 pounds)	65		56,341	3,552	159	5,078	
Fuel oils (barrels of 42 gallons)	25		95	748	9	5	59
Gasoline and kerosene (gallons)	629		17,549	55,490	241	9,088	758
Natural gas (thousands of cubic feet)		77,201					
Electric energy consumed (thousands of kw.-hrs.), total	7	198	6,458	537	17,735	19,761	51
Purchased	7	150	4,750	551	17,735	11,577	51
Generated by reporting companies		48	1,678	6		8,584	

ITEM	Rockcastle	Rowan	Union	Warren	Webster	Whitley	All other ²
Number of operating companies ¹	9	5	6	3	14	10	45
Number of mines and quarries	10	5	6	3	16	10	55
Number of preparation plants	5			5		1	45
Value of all products	\$156,830	\$259,570	\$847,288	\$55,255	\$1,575,198	\$622,295	\$2,422,648
Number of persons engaged, total	126	194	808	86	1,569	788	1,145
Wage earners (average for the year)	115	188	762	60	1,516	680	1,054
Salaries employees	5	5	44	2	42	53	78
Proprietors and firm members	6		2	4	11	5	35
Performing manual labor	5		2	1	11	2	15
Principal expenses designated below, total	\$92,706	\$229,865	\$847,375	\$40,709	\$1,159,284	\$607,288	\$1,282,110
Wages	\$87,091	\$195,061	\$481,575	\$22,505	\$978,451	\$457,699	\$681,500
Salaries	\$6,276	\$9,554	\$56,765	\$1,850	\$56,876	\$82,210	\$151,705
Supplies and materials	\$14,175	\$18,254	\$87,018	\$6,500	\$179,556	\$61,770	\$280,861
Fuel	\$11,135	\$4,987	\$25,064	\$9,488	\$4,219	\$15,106	\$159,840
Purchased electric energy	\$4,029		\$16,955	\$516	\$41,362	\$12,505	\$48,206
Contract work		\$5,019					
Cost of buildings, machinery, and equipment erected or installed during year	\$5,369	\$2,899	\$26,517	\$12,900	\$4,447	\$11,700	\$149,425
Buildings	\$502	\$2,696	\$5,529		\$300	\$5,100	\$8,554
Machinery and equipment	\$4,667	\$2,205	\$22,988	\$12,900	\$4,147	\$6,600	\$140,872
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,058	825	3,288	1,251	5,548	2,445	16,578
Prime movers	1,756	825	1,460	1,213	1,211	1,519	12,558
Electric motors driven by purchased energy	282		1,778	18	4,537	924	4,220
Horsepower rating of electric motors driven by energy generated by reporting companies	117		861		1,600	1,815	1,915
Fuels consumed:							
Anthracite (tons of 2,000 pounds)							
Bituminous coal (tons of 2,000 pounds)	5,058	558	16,579	240	2,640	9,095	25,950
Fuel oils (barrels of 42 gallons)	52		10	805	59	675	5,851
Gasoline and kerosene (gallons)	30,224	25,355	265	47,500	3,592	5,999	527,163
Natural gas (thousands of cubic feet)							28,088
Electric energy consumed (thousands of kw.-hrs.), total	144		1,676	15	2,577	827	8,145
Purchased	92		1,255	15	2,509	586	1,770
Generated by reporting companies	52		441		88	241	6,575

¹ Companies with operations in more than one county are counted only once in the totals.² Allen, Anderson, Barren, Boyle, Breckinridge, Campbell, Carroll, Clark, Clinton, Edmonson, Elliott, Fleming, Franklin, Fulton, Grayson, Hardin, Harrison, Jessamine, Lawrence, Logan, Maderison, Magoffin, Marion, Menard, Menifee, Mercer, Morgan, Nelson, Nicholas, Oldham, Owsley, Powell, Scott, Simpson, Todd, Trigg, Washington, Wayne, Wolfe, and Woodford.

LOUISIANA

Louisiana ranked seventh among the States in value of products of mineral industries in 1939 and seventeenth in number of wage earners employed.¹ (See table 2, General Summary.) For 1939 and 1929, comparative statistics for the State are available only for the common sand and gravel industry; for this industry the value of products in 1939 was 78 percent of that in 1929, and the number of wage earners 108 percent. (See table 1.) Comparative statistics for 1939 and 1919 are available only for the crude-petroleum and natural-gas and the natural-gasoline industries; the 1939 value of products of these industries was 352 percent of that in 1919, and the number of wage earners, 171 percent.

The crude-petroleum and natural-gas industry ranked first among the mineral industries in the State in 1939, accounting

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

for 88 percent of the total value of products and 82 percent of the total number of wage earners. (See table 2.) Natural-gasoline and rock-salt operations reported, respectively, 3 percent and 2 percent of the total value of products. Louisiana ranked first among all States in the rock-salt industry, accounting for 32 percent of the value of products of the industry in the United States; second in the sulfur industry; and fourth in the crude-petroleum and natural-gas industry.

Other mineral industries in the State were limestone, common sand and gravel, kaolin and ball clay, common clay and shale, and fuller's earth. Mineral operations (other than oil and gas wells) were located in 22 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN LOUISIANA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Common sand and gravel) ¹		1939 AND 1919 (Crude petroleum and natural gas and natural gasoline) ²	
		1939	1929	1939	1919
Number of mines and quarries	40	25	18		
Number of oil and gas wells producing at end of year	6,829			6,829	2,479
Number of natural-gasoline plants	29			29	20
Value of all products	\$121,202,416	\$1,581,506	\$2,051,259	\$110,145,748	\$31,275,561
Number of persons engaged, total	11,782	545	512	10,108	5,669
Wage earners (average for the year)	9,645	472	459	8,267	4,841
Salaried employees	1,925	65	72	1,638	770
Proprietors and firm members	212	6	1	205	56
Performing manual labor	59	1	(=)	58	2
Principal expenses designated below, total	\$80,254,275	\$956,788	\$1,356,400	\$56,594,694	\$18,590,402
Wages	\$14,744,416	\$367,364	\$442,098	\$13,416,944	\$7,085,514
Salaries	\$5,187,982	\$141,514	\$221,290	\$4,582,942	\$1,441,479
Supplies and materials	\$10,240,446	\$206,089	\$340,878	\$9,411,466	\$7,632,554
Fuel	\$5,280,092	\$88,551	\$116,496	\$2,619,604	\$1,427,865
Purchased electric energy	\$447,596	\$11,708	\$214,840	\$240,586	\$924
Contract work	\$26,335,833	\$1,742	\$1,000	\$26,324,302	\$2,032,058
Cost of machinery and equipment installed during year	\$23,418,496	\$48,559	\$128,066	\$23,137,301	(=)
Horsepower rating of power equipment, total	284,785	19,053	15,896	244,961	79,249
Per wage earner	29.5	40.3	31.7	29.6	16.4
Prime movers	261,315	12,276	5,462	252,758	79,215
Electric motors driven by purchased energy	23,470	6,787	8,436	12,205	34
Electric energy consumed (thousands of kw.-hrs.), total	51,957	9,565	10,819	23,900	(=)
Purchased	29,855	9,103	10,819	15,425	(=)
Generated by reporting companies	22,082	460		8,475	(=)

¹In addition to the common sand and gravel industry, 1 limestone enterprise was reported for 1929.

²In addition to the crude-petroleum and natural-gas and natural-gasoline industries, 1 limestone and 1 sulfur enterprise were reported for 1919.

³Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN LOUISIANA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS							Contract-service operations ²	Non-producing operations ³
		Total	Fuels		Common sand and gravel	Common clay and shale	Rock salt	All other ¹		
			Crude petroleum and natural gas	Natural gasoline						
Number of operating companies ⁴	548	451	411	16	21	6	4	5	91	15
Number of mines and quarries	40	40			25	6	4	5		
Number of oil and gas wells producing on December 31, 1939	6,529	6,529	6,529							
Number of preparation plants	62	62		29	25		4	4		
Value of all products ⁵	\$154,685,526	\$121,202,416	\$106,665,668	\$5,482,080	\$1,591,506	\$44,204	\$2,188,540	\$7,232,618	\$15,485,110	
Number of persons engaged, total	15,117	11,782	9,677	431	545	22	617	492	3,198	139
Wage earners (average for the year)	12,594	9,645	7,918 ⁶	549	472	18	551	537	2,861	78
Number receiving pay during pay-roll period ending nearest the 15th of:										
January	11,986	9,378	7,780	506	450	17	495	350	2,554	54
February	12,128	9,458	7,786	515	445	17	500	377	2,625	65
March	12,085	9,407	7,741	510	472	19	499	366	2,617	59
April	12,200	9,378	7,779	295	451	19	505	335	2,768	54
May	12,642	9,545	7,894	517	487	19	512	316	3,008	89
June	12,513	9,731	8,007	565	505	19	517	318	2,895	87
July	12,914	9,905	8,155	571	485	19	541	322	2,927	94
August	13,115	10,010	8,253	595	456	18	588	319	3,020	85
September	12,768	9,770	7,974	555	437	19	670	317	2,929	89
October	13,006	9,740	7,945	374	468	19	612	324	3,161	105
November	12,908	9,751	7,866	400	495	19	604	347	3,098	81
December	12,742	9,710	7,872	381	509	17	585	356	2,935	97
Salaries employees	2,251	1,925	1,556	82	65	2	56	154	265	61
Proprietors and firm members	282	212	205		6	2		1	70	
Performing manual labor	50	39	38		1				11	
Principal expenses designated below, total	\$65,682,071	\$60,234,275	\$55,001,926	\$1,592,768	\$956,788	\$26,482	\$1,058,088	\$1,658,223	\$4,547,177	\$900,619
Wages	\$18,669,656	\$14,744,416	\$12,920,776	\$496,068	\$367,384	\$13,240	\$415,962	\$550,986	\$3,810,372	\$114,848
Salaries	\$6,065,232	\$5,187,892	\$4,032,617	\$349,525	\$141,514	\$1,900	\$191,155	\$471,381	\$756,555	\$159,005
Supplies and materials	\$10,475,877	\$10,240,446	\$9,005,610	\$407,828	\$206,089	\$6,898	\$257,598	\$358,425	\$175	\$235,256
Fuel	\$3,356,606	\$3,280,092	\$2,625,459	\$194,145	\$98,551	\$4,284	\$116,111	\$251,762	\$275	\$86,259
Purchased electric energy	\$447,596	\$447,596	\$228,232	\$12,554	\$151,708	\$180	\$54,445	\$20,697	(*)	
Contract work	\$26,661,104	\$26,355,835	\$26,191,252	\$135,070	\$1,742		\$2,817	\$4,972	(*)	\$327,271
Cost of buildings, machinery, and equipment erected or installed during year	\$24,417,921	\$24,555,047	\$23,161,865	\$698,622	\$49,781		\$197,548	\$227,435	(*)	\$82,874
Buildings	\$916,551	\$916,551	\$871,906	\$51,278	\$942		\$120,912	\$71,515	(*)	
Machinery and equipment, total	\$23,501,370	\$23,418,496	\$22,469,957	\$647,344	\$48,839		\$76,436	\$155,920	(*)	\$82,874
Purchased in new condition	\$22,986,389	\$22,905,515	\$22,071,358	\$647,344	\$16,159		\$13,758	\$154,956	(*)	
Purchased in used condition	\$514,981	\$512,981	\$418,619		\$32,700		\$62,678	\$384	(*)	
Number of man-hours worked by wage earners	23,007,054	18,647,650	15,206,868	640,490	1,015,372	59,008	1,044,198	705,904	4,285,670	125,554
Average hourly earning of wage earners	\$0.81	\$0.79	\$0.85	\$0.77	\$0.36	\$0.54	\$0.40	\$0.75	\$0.89	\$0.93
Horsepower rating of prime movers and electric motors driven by purchased energy, total	549,561	284,786	215,074	29,887	19,055	600	8,387	11,824	61,747	5,019
Per wage earner	27.6	29.5	27.2	85.6	40.5	53.5	15.2	55.1	21.6	38.7
Prime movers	324,658	261,115	205,062	29,896	12,276	600	5,302	10,379	60,504	5,019
Electric motors driven by purchased energy	24,715	23,470	12,012	191	6,757		5,055	1,445	1,245	
Horsepower rating of electric motors driven by energy generated by reporting companies	15,275	15,591	2,875	817	685		4,155	5,061	1,682	
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	7704	704			704				(*)	
Bituminous coal (tons of 2,000 pounds)	71,368	1,568			841				(*)	
Fuel oils (barrels of 42 gallons)	665,281	788,180	740,687		21,546	527			(*)	
Gasoline and kerosene (gallons)	1,277,567	1,276,747	965,915		262,682	15,059	14,283	11,664	(*)	75,101
Natural gas (thousands of cubic feet)	48,519,459	48,496,781	40,528,958	5,056,615	1,588		1,790	35,325	(*)	620
Electric energy consumed (thousands of kw.-hrs.), total	51,937	51,937	20,201	3,609	9,563	4	9,774	8,686	(*)	25,678
Purchased	29,855	29,855	14,735	690	9,103		4,074	1,249	(*)	
Generated by reporting companies	22,082	22,082	5,466	3,009	460		5,700	7,447	(*)	

¹ Represents 1 quarry and 1 crushing plant in the crushed and broken limestone industry, 2 mines and 2 preparation plants in the kaolin and ball-clay industry, 1 mine and 1 preparation plant in the fuller's-earth industry, and 1 sulfur mine.

² The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

³ All nonproducing operations were in the crude-petroleum and natural-gas industry.

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

⁵ Includes amounts received or due for contract services performed during the year.

⁶ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁷ Includes statistics for contract-service operations.

⁸ Not available.

LOUISIANA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN LOUISIANA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Caddo	Claiborne	Evangeline	Iberia	Rapides	St. Tammany	Tangipahoa	Washington	Webster	All other ¹
Number of operating companies ²	52	14	5	3	4	3	6	3	5	7	16
Number of mines and quarries	40	2	—	2	4	3	7	3	5	4	12
Number of preparation plants	62	14	6	3	3	3	5	2	5	7	16
Value of all products	\$14,538,748	\$2,407,706	\$500,246	\$319,254	\$1,654,441	\$244,502	\$161,773	\$112,052	\$70,866	\$321,516	\$8,766,412
Number of persons engaged, total	2,105	244	55	62	497	86	64	51	35	108	903
Wage earners (average for the year)	1,727	182	51	57	466	71	57	45	31	96	666
Salaried employees	369	62	2	5	28	17	6	6	4	10	229
Proprietors and firm members	9	—	—	—	1	—	1	—	—	2	5
Performing manual labor	1	—	—	—	—	—	—	—	—	1	—
Principal expenses designated below, total	\$5,232,349	\$968,073	\$161,490	\$200,424	\$618,701	\$179,919	\$71,223	\$79,095	\$49,272	\$211,151	\$2,695,011
Wages	\$1,823,640	\$287,243	\$77,519	\$66,950	\$340,879	\$66,915	\$37,505	\$27,814	\$18,322	\$98,671	\$852,042
Salaries	\$1,155,275	\$284,239	\$4,590	\$11,080	\$68,864	\$55,180	\$12,029	\$12,180	\$6,320	\$18,260	\$682,774
Supplies and materials	\$1,286,886	\$279,120	\$45,755	\$33,608	\$60,187	\$29,609	\$12,171	\$12,266	\$6,471	\$42,141	\$713,580
Fuel	\$654,533	\$99,511	\$32,145	\$15,827	\$112,843	\$14,608	\$9,239	\$5,797	\$2,519	\$55,804	\$350,840
Purchased electric energy	\$219,364	\$12,251	\$1,983	\$5,284	\$35,948	\$15,607	\$280	\$13,326	\$15,940	\$14,071	\$102,874
Contract work	\$142,801	\$55,709	—	\$69,695	—	—	—	\$1,742	—	\$4,504	\$10,951
Cost of buildings, machinery, and equipment erected or installed during year	\$1,173,184	\$184,293	\$20,889	\$356,746	\$167,643	\$3,600	—	\$8,192	\$150	\$61,288	\$340,598
Buildings	\$244,645	\$750	\$1,169	\$45,186	\$103,435	—	—	\$192	—	\$2,368	\$91,545
Machinery and equipment	\$928,539	\$183,543	\$19,720	\$311,560	\$64,208	\$3,600	—	\$8,000	\$150	\$58,915	\$249,053
Horsepower rating of prime movers and electric motors driven by purchased energy, total	69,711	12,580	4,272	7,529	6,975	3,295	1,699	1,211	1,210	4,224	26,908
Prime movers	58,253	12,265	4,201	7,214	5,298	2,945	1,697	361	525	3,464	20,285
Electric motors driven by purchased energy	11,458	315	71	125	1,675	350	2	850	685	760	6,623
Horsepower rating of electric motors driven by energy generated by reporting companies	10,716	13	8	468	4,155	—	418	15	—	35	5,604
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	704	—	—	—	—	—	—	704	—	—	—
Bituminous coal (tons of 2,000 pounds)	1,368	—	—	—	—	—	543	—	—	—	825
Fuel oils (barrels of 42 gallons)	47,495	—	—	4,146	12,403	5,307	4,017	1,119	310	3,655	16,536
Gasoline and kerosene (gallons)	310,854	7,500	—	33,541	2,180	20,602	6,250	1,875	5,146	80,174	153,798
Natural gas (thousands of cubic feet)	7,966,623	2,299,513	382,552	200,461	669,545	—	—	—	1,904	398,246	4,014,904
Electric energy consumed (thousands of kw.-hrs.), total	31,736	798	47	1,512	6,538	638	422	1,144	1,257	662	16,718
Purchased	15,120	715	35	419	2,638	638	6	1,142	1,257	660	7,410
Generated by reporting companies	16,616	83	12	1,093	5,700	—	416	2	—	2	9,308

¹ Acadia, Bossier, Calcasieu, Catahoula, East Feliciana, Grant, Jefferson, Jefferson Davis, Lincoln, Ouachita, Plaquemine, Vernon, Winn, and central offices in Orleans County.

² Companies with operations in more than 1 county are counted only once in the totals.

MAINE

Maine ranked forty-fifth among the States in both value of products and number of wage earners employed in mineral industries in 1939.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 25 percent of that in 1929, and the number of wage earners 30 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 44 percent of that in 1919 and the number of wage earners 34 percent.

The granite industry in the State, chiefly rough-dimension stone operations, accounted for 47 percent of the total value

¹ Statements in this text refer to producing operations only; no contract-service operations were classified in the State in 1939, and nonproducing operations represented only 1 mine and 1 preparation plant in the peat industry.

of products and 51 percent of the wage earners in all mineral industries in the State. The limestone industry accounted for 30 percent of the total value of products and 20 percent of the wage earners. The State accounted for 7 percent of the total value of products of the rough-dimension granite industry in the United States. (See report for this industry.)

Other mineral industries in the State were slate, common sand and gravel, common clay and shale, feldspar, mica, and peat. Mineral operations were located in 13 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MAINE: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the peat industry)		1939 AND 1919 (Excluding the common sand and gravel and peat industries)	
		1939 ¹	1929	1939 ^{1 2}	1919
Number of mines and quarries—	34	30	55	27	51
Value of all products—	\$895,898	\$869,538	\$5,488,040	\$806,635	\$1,825,442
Number of persons engaged, total—	439	405	1,284	388	1,095
Wage earners (average for the year)—	379	347	1,170	335	979
Salariat employees—	41	37	85	58	32
Proprietors and firm members—	18	18	29	17	51
Performing manual labor—	10	10	(³)	8	56
Principal expenses designated below, total—	\$585,467	\$570,257	\$2,218,699	\$544,938	\$1,528,422
Wages—	\$375,743	\$355,643	\$1,576,518	\$347,984	\$1,051,796
Salaries—	\$72,132	\$68,652	\$212,693	\$68,112	\$118,279
Supplies and materials—	\$82,734	\$80,254	\$267,117	\$75,636	\$208,187
Fuel—	\$27,167	\$22,422	\$52,538	\$19,454	\$77,561
Purchased electric energy—	\$35,327	\$53,527	\$101,673	\$31,773	\$45,251
Contract work—	\$2,364	\$1,999	\$8,160	\$1,999	\$32,568
Cost of machinery and equipment installed during year—	\$10,798	\$8,268	\$54,562	\$1,825	(³)
Horsepower rating of power equipment, total—	10,952	10,620	12,076	10,253	6,277
Per wage earner—	28.9	31.2	10.3	30.6	6.4
Prime movers—	5,111	4,979	5,176	4,870	5,562
Electric motors driven by purchased energy—	5,841	5,841	8,900	5,583	2,715
Electric energy consumed (thousands of kw.-hrs.), total—	2,412	2,412	5,074	2,325	(³)
Purchased—	2,155	2,156	5,004	2,069	(³)
Generated by reporting companies—	256	256	70	256	(³)

¹ Includes 2 mines in the common clay and shale industry. This industry was not included in the census of mineral industries for 1929 or 1919.

² Includes 2 limestone quarries operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919. The value of products of these quarries represented over one-fourth of the total value of products of all mineral industries in Maine in 1939.

³ Not available.

MAINE

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MAINE, BY INDUSTRY: 1939

(For producing operations only;¹)

ITEM	Total	STONE ²			Common sand and gravel	Feldspar	Peat	All other ³
		Crushed and broken		Rough-dimension granite				
		Limestone	Granite					
Number of operating companies ⁴	53	5	5	8	5	8	5	5
Number of mines and quarries	54	5	5	8	5	8	4	5
Number of preparation plants	11	2	3		3		3	
Value of all products ⁵	\$895,898	\$272,501	\$35,259	\$381,511	\$50,703	\$29,719	\$25,580	\$79,645
Number of persons engaged, total	459	78	19	202	15	55	36	54
Wage earners (average for the year)	379	74	14	180	12	23	32	44
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	254	47	3	108	2	18	32	44
February	205	49	5	59	3	18	32	59
March	214	55	2	67	3	18	32	57
April	288	72	2	123	5	18	32	56
May	390	94	14	176	14	18	32	43
June	345	94	15	117	18	26	32	45
July	682	81	15	457	20	32	32	65
August	705	79	44	457	25	34	32	44
September	409	80	27	177	23	27	32	43
October	377	80	21	149	20	26	32	49
November	341	79	15	135	7	26	32	46
December	355	76	5	153	2	24	32	46
Salaried employees	41	4	5	18	1	3	4	6
Proprietors and firm members	19			4	2	9		4
Performing manual labor	10				2	4		4
Principal expenses designated below, total	\$585,467	\$124,965	\$37,388	\$305,696	\$25,269	\$26,700	\$21,210	\$52,239
Wages	\$375,745	\$74,135	\$18,152	\$216,589	\$15,659	\$15,544	\$12,100	\$25,564
Salaries	\$72,132	\$2,775	\$6,510	\$40,419	\$520	\$6,358	\$2,500	\$6,950
Supplies and materials	\$82,754	\$26,998	\$10,140	\$28,236	\$4,598	\$2,674	\$2,500	\$9,592
Fuel	\$27,167	\$417	\$2,705	\$12,608	\$2,958	\$2,124	\$4,745	\$1,532
Purchased electric energy	\$35,327	\$14,144	\$1,695	\$7,846	\$1,554			\$7,900
Contract work	\$2,364	\$499					\$265	\$1,590
Cost of buildings, machinery, and equipment erected or installed during year	\$16,015			\$5,029	\$6,563	\$221	\$4,000	\$290
Buildings	\$5,215			\$3,825	\$90		\$1,500	
Machinery and equipment, total	\$10,799			\$1,404	\$6,473	\$221	\$2,500	\$290
Purchased in new condition	\$6,584			\$1,500	\$6,473	\$221	\$500	\$100
Purchased in used condition	\$2,204			\$104			\$2,000	\$100
Number of man-hours worked by wage earners	659,146	150,287	54,864	316,248	28,005	35,865	30,196	60,685
Average hourly earning of wage earners	\$0.57	\$0.49	\$0.46	\$0.68	\$0.56	\$0.40	\$0.40	\$0.42
Horsepower rating of prime movers and electric motors driven by purchased energy, total	10,952	1,994	968	5,383	367	443	132	1,463
Per wage earner	28.9	28.9	69.1	29.9	47.2	19.3	4.1	55.5
Prime movers	5,111	266	463	2,970	309	443	132	528
Electric motors driven by purchased energy	5,841	1,728	505	2,413	258			937
Horsepower rating of electric motors driven by energy generated by reporting companies	532			532				
Fuels consumed: ⁶								
Anthracite (tons of 2,000 pounds)	57		3	4	50			
Bituminous coal (tons of 2,000 pounds)	1,175		46	649	32		448	
Fuel oils (barrels of 42 gallons)	2,422			2,422				
Gasoline and kerosene (gallons)	69,969	3,285	13,941	4,588	16,350	12,859	10,975	7,971
Electric energy consumed (thousands of kw.-hrs.), total	2,412	1,133	68	656	87			488
Purchased	2,185	1,133	68	580	87			488
Generated by reporting companies	256			256				

¹ 1 nonproducing mine and 1 nonproducing preparation plant were reported in the peat industry, but are not covered in the table to avoid disclosure of confidential information. No contract-service operations were classified in the State.

² 2 rough-dimension slate mines are included under "All other" to avoid disclosure of confidential information.

³ Represents 2 rough-dimension slate mines, 2 common clay and shale mines, and 1 mica mine.

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

⁵ Includes amounts received or due for contract services performed during the year.

⁶ No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.--PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MAINE, BY COUNTY: 1939

(For producing operations only)

Item	State	Androscoggin	Knox	Oxford	Sagadahoc	Washington	All other ¹
Number of operating companies ²	55	5	6	5	6	5	12
Number of mines and quarries	54	5	6	5	6	5	13
Number of preparation plants	11	2	2			2	5
Value of all products	\$295,698	\$22,178	\$377,511	\$19,745	\$25,337	\$28,510	\$425,019
Number of persons engaged, total	459	15	150	15	25	25	211
Wage earners (average for the year)	579	12	156	9	18	21	188
Salaried employees	41	5	10	5		2	25
Proprietors and firm members	19		4	5	7		5
Performing manual labor	10			2	5		5
Principal expenses designated below, total	\$595,467	\$24,065	\$216,434	\$13,950	\$15,376	\$14,240	\$509,452
Wages	\$375,743	\$14,045	\$142,075	\$5,612	\$11,992	\$9,406	\$192,813
Salaries	\$72,132	\$5,815	\$25,465	\$6,558		\$1,540	\$34,858
Supplies and materials	\$32,784	\$789	\$29,985	\$1,180	\$1,794	\$2,200	\$46,798
Fuel	\$27,167	\$646	\$1,902	\$780	\$1,590	\$1,094	\$21,155
Purchased electric energy	\$33,327	\$1,262	\$18,490				\$13,575
Contract work	\$2,364	\$1,500	\$499				\$365
Cost of buildings, machinery, and equipment erected or installed during year	\$16,015			\$221		\$104	\$15,686
Buildings	\$5,215						\$5,215
Machinery and equipment	\$10,799			\$221		\$104	\$10,475
Horsepower rating of prime movers and electric motors driven by purchased energy, total	10,952	478	5,902	255	210	278	5,831
Prime movers	5,111	308	561	255	210	278	3,501
Electric motors driven by purchased energy	5,841	170	5,341				2,330
Horsepower rating of electric motors driven by energy generated by reporting companies	532						532
Fuels consumed: ³							
Anthracite (tons of 2,000 pounds)	57	5	4				50
Bituminous coal (tons of 2,000 pounds)	1,175	52	176			5	962
Fuel oils (barrels of 42 gallons)	2,422					505	2,119
Gasoline and kerosene (gallons)	69,969	2,885	4,260	5,067	9,350	1,575	47,252
Electric energy consumed (thousands of kw.-hrs.), total	2,412	49	1,549				1,014
Purchased	2,156	49	1,549				759
Generated by reporting companies	256						256

¹ Aronstock, Cumberland, Hancock, Kennebec, Penobscot, Piscataquis, Waldo, and York.² Companies with operations in more than 1 county are counted only once in the totals.³ No natural gas was reported consumed.

MARYLAND AND DISTRICT OF COLUMBIA

Maryland ranked thirty-third among the States in value of products of mineral industries in 1939, and thirty-first in number of wage earners employed.¹ Statistics for two common clay and shale mines which were the only mineral operations reported in the District of Columbia are included in the tables with statistics for Maryland. For industries canvassed in both 1939 and 1929, the value of products in 1939 for Maryland was 74 percent of that in 1929 and the number of wage earners 76 percent. (See table 1.) For industries in Maryland and the District of Columbia covered in both 1939 and 1919, the 1939 value of products was 51 percent of that in 1919, and the number of wage earners 52 percent. Differences between totals for 1939 and the two previous census years are accounted for chiefly by decreases in the bituminous-coal industry in Maryland. Total horsepower rating of power equipment at mineral

operations in the area in 1939 was 107 percent of that in 1929, and 128 percent of that in 1919.

The common sand and gravel industry accounted for 40 percent of the value of products and 18 percent of the wage earners in mineral industries in the area. The bituminous-coal industry was second in value of products, with 35 percent, and first in number of wage earners employed, with 60 percent. Maryland accounted for 5 percent of the total value of products of the common sand and gravel industry in the United States. (See report for this industry.)

Other mineral industries in Maryland were limestone, granite, basalt, sandstone, slate, marble, miscellaneous stone, kaolin and ball clay, fire clay, common clay and shale, asbestos, diatomite, and talc and soapstone. Mineral operations were located in 14 counties in Maryland in 1939; principal statistics for Maryland counties and for the District of Columbia are shown in table 3, and number of operating companies, mines and quarries, and preparation plants in Maryland counties and the District of Columbia are shown by industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service operations see table 2. No nonproducing operations were reported for the area in 1939.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MARYLAND AND DISTRICT OF COLUMBIA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 ¹ (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1939	1929	1939 ²	1919
Number of mines and quarries—	171	158	130	130	164
Value of all products—	\$8,451,050	\$8,283,133	\$11,122,195	\$4,908,145	\$8,714,204
Number of persons engaged, total—	3,876	3,805	4,978	5,205	6,181
Wage earners (average for the year)—	3,526	3,465	4,578	2,907	5,640
Salaried employees—	236	231	355	195	404
Proprietors and firm members—	114	111	45	103	87
Performing manual labor—	65	66	(3)	64	26
Principal expenses designated below, total—	\$5,243,009	\$5,146,380	\$8,655,736	\$3,977,233	\$8,453,659
Wages—	\$5,343,672	\$5,286,781	\$4,815,794	\$2,683,564	\$6,159,894
Salaries—	\$497,067	\$479,612	\$851,073	\$355,370	\$789,659
Supplies and materials—	\$851,685	\$858,944	\$2,378,924	\$566,553	\$1,779,358
Fuel—	\$297,618	\$286,908	\$276,138	\$104,026	\$240,900
Purchased electric energy—	\$208,661	\$195,907	\$335,410	\$139,227	\$60,929
Contract work—	\$59,306	\$59,328	\$397	\$28,493	\$16,899
Cost of machinery and equipment installed during year—	\$617,854	\$604,042	\$497,987	\$254,904	(3)
Horsepower rating of power equipment, total—	38,469	36,456	34,006	25,925	19,757
Per wage earner—	10.9	10.5	7.4	8.2	3.5
Prime movers—	21,257	19,589	12,960	10,693	14,115
Electric motors driven by purchased energy—	17,212	16,867	21,046	15,232	4,642
Electric energy consumed (thousands of kw.-hrs.), total—	17,791	17,374	18,025	14,153	(3)
Purchased—	10,467	10,060	16,553	7,254	(3)
Generated by reporting companies—	7,324	7,324	1,492	6,899	(3)

¹ Represents Maryland only. For the District of Columbia, 2 common clay and shale mines were reported for 1939 and 1 granite enterprise for 1929.

² Includes 5 limestone quarries, with products valued at \$512,831, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MARYLAND AND DISTRICT OF COLUMBIA, BY COUNTY: 1939

(For producing operations only)

ITEM	Maryland and District of Columbia	Allegany	Anne Arundel	Baltimore	Baltimore City	Carroll	Cecil
Number of operating companies ¹	144	59	5	19	7	3	4
Number of mines and quarries	171	65	5	23	8	5	8
Number of preparation plants	58	4	3	14	6	2	5
Value of all products	\$9,451,080	\$2,057,653	\$256,518	\$937,765	\$255,405	\$84,887	\$474,096
Number of persons engaged, total	3,876	1,617	56	520	151	43	94
Wage earners (average for the year)	3,526	1,476	51	291	104	41	85
Salaries	256	82	3	18	48	1	9
Proprietors and firm members	114	59	2	11	1	1	2
Performing manual labor	65	45		1		1	
Principal expenses designated below, total	\$5,245,009	\$1,856,679	\$154,464	\$478,420	\$290,217	\$50,832	\$211,775
Wages	\$3,543,672	\$1,425,953	\$58,088	\$245,800	\$95,750	\$28,736	\$88,594
Salaries	\$487,007	\$119,969	\$7,075	\$28,276	\$128,695	\$2,080	\$22,300
Supplies and materials	\$851,695	\$210,238	\$41,807	\$118,689	\$34,492	\$15,251	\$44,462
Fuel	\$297,618	\$12,680	\$18,014	\$49,854	\$14,878	\$840	\$25,335
Purchased electric energy	\$205,661	\$66,711	\$9,480	\$25,725	\$18,402	\$5,915	\$1,447
Contract work	\$50,306	\$5,128		\$10,076			\$29,835
Cost of buildings, machinery, and equipment erected or installed during year	\$686,848	\$92,715	\$17,851	\$50,200	\$125,526	\$72,190	\$91,504
Buildings	\$78,994	\$1,282	\$1,814	\$9,759	\$25,678	\$428	\$29,835
Machinery and equipment	\$617,854	\$91,433	\$16,037	\$40,441	\$99,850	\$71,762	\$61,669
Horsepower rating of prime movers and electric motors driven by purchased energy, total	38,459	10,187	1,544	6,454	2,297	548	2,501
Prime movers	21,237	2,165	746	4,469	1,197	98	2,404
Electric motors driven by purchased energy	17,212	8,022	798	1,985	1,100	250	97
Horsepower rating of electric motors driven by energy generated by reporting companies	9,231	440				1,587	515
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	227						
Bituminous coal (tons of 2,000 pounds)	56,407	1,449	2,255	488	578		290
Fuel oils (barrels of 42 gallons)	51,670	1,350	2,540	96	1,055		15,944
Gasoline and kerosene (gallons)	842,658	58,752	3,618	371,895	74,246	7,650	37,176
Natural gas (thousands of cubic feet)	698						
Electric energy consumed (thousands of kw.-hrs.), total	17,791	3,982	297	884	650	485	506
Purchased	10,497	5,748	297	884	650	192	37
Generated by reporting companies	7,294	234				293	269

ITEM	Frederick	Garrett	Harford	Montgomery	Prince Georges	Washington	All other ²
Number of operating companies ¹	6	25	5	3	6	4	4
Number of mines and quarries	6	27	5	3	12	4	4
Number of preparation plants	2	1	4		12	4	1
Value of all products	\$252,819	\$1,180,323	\$352,956	\$31,402	\$2,265,340	\$310,715	\$31,371
Number of persons engaged, total	99	904	112	24	564	74	18
Wage earners (average for the year)	95	837	103	21	538	71	15
Salaries	3	39	9	1	22	2	1
Proprietors and firm members	1	28		2	4	1	2
Performing manual labor		18			2		
Principal expenses designated below, total	\$108,154	\$1,002,001	\$202,692	\$17,148	\$742,648	\$144,527	\$24,274
Wages	\$70,168	\$781,017	\$87,755	\$8,679	\$367,597	\$78,741	\$11,088
Salaries	\$5,000	\$47,245	\$22,608	\$585	\$36,376	\$4,980	\$1,880
Supplies and materials	\$20,115	\$156,870	\$45,779	\$862	\$133,032	\$45,182	\$6,898
Fuel	\$5,480	\$31,814	\$10,751	\$1,025	\$120,072	\$7,320	\$2,555
Purchased electric energy	\$10,873	\$4,056	\$27,588	\$517	\$25,771	\$7,752	\$1,925
Contract work			\$8,233	\$5,482		\$2,552	
Cost of buildings, machinery, and equipment erected or installed during year	\$4,000	\$25,621			\$214,002	\$4,357	\$884
Buildings		\$2,400			\$7,800		
Machinery and equipment	\$4,000	\$21,221			\$206,202	\$4,357	\$884
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,218	4,012	2,554	426	4,976	1,582	560
Prime movers	268	5,061	1,170	232	5,735	1,187	480
Electric motors driven by purchased energy	955	921	1,384	194	1,241	195	80
Horsepower rating of electric motors driven by energy generated by reporting companies		4,305			195	2,189	
Fuels consumed:							
Anthracite (tons of 2,000 pounds)			237				
Bituminous coal (tons of 2,000 pounds)	340	14,586	1,470		15,925	985	25
Fuel oils (barrels of 42 gallons)		332	138		10,411		24
Gasoline and kerosene (gallons)	6,200	22,650	6,000	6,780	225,738	25,500	18,615
Natural gas (thousands of cubic feet)		698					
Electric energy consumed (thousands of kw.-hrs.), total	608	5,234	1,794	12	1,855	1,585	123
Purchased	608	158	1,794	12	1,877	326	123
Generated by reporting companies		5,095			176	1,257	

¹ Companies with operations in more than 1 county or State are counted only once in the totals.
² Calvert and Wicomico Counties, Maryland, and the District of Columbia.

MASSACHUSETTS

Massachusetts ranked thirty-seventh among the States in value of products of mineral industries in 1939, and fortieth in number of wage earners employed. (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 50 percent of that in 1929, and the number of wage earners 49 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 78 percent of that in 1919, and the number of wage earners 46 percent. Differences between totals for 1939 and those for the two preceding census years are accounted for chiefly by decreases in the granite and basalt industries, due in part to the elimination of stone-dressing activities from the 1939 statistics.

The common sand and gravel industry ranked first among the mineral industries in the State in 1939, accounting for 36 percent of the total value of products and 33 percent of the

total number of wage earners. The basalt industry ranked second in value of products with 26 percent of the total, and employed 20 percent of the wage earners. Massachusetts ranked second among all States in the rough-dimension granite industry, accounting for 11 percent of the value of products of the industry in the United States; and third in the crushed and broken basalt industry, accounting for 14 percent of the value of products of the industry. (See reports for these industries.)

Other mineral industries in the State were manganese ore, limestone, sandstone, marble, miscellaneous stone, foundry sand, common clay and shale, and diatomite. Mineral operations were located in 12 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MASSACHUSETTS: 1939, 1929, AND 1919¹

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1919 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1939	1929	1919 ²	1919
Number of mines and quarries-----	112	106	104	47	79
Value of all products-----	\$5,229,742	\$5,189,065	\$10,387,014	\$3,245,051	\$4,175,699
Number of persons engaged, total-----	1,617	1,602	2,740	1,060	1,910
Wage earners (average for the year)-----	1,206	1,191	2,419	780	1,704
Salaried employees-----	862	862	275	268	156
Proprietors and firm members-----	49	49	46	12	50
Performing manual labor-----	24	24	(³)	4	10
Principal expenses designated below, total-----	\$5,516,850	\$5,492,189	\$5,578,915	\$2,442,370	\$5,162,226
Wages-----	\$1,486,167	\$1,466,183	\$4,046,526	\$958,356	\$2,068,844
Salaries-----	\$1,041,806	\$1,041,806	\$261,375	\$288,407	\$324,502
Supplies and materials-----	\$452,651	\$451,855	\$1,111,694	\$271,542	\$494,249
Fuel-----	\$294,083	\$292,114	\$227,440	\$141,404	\$186,694
Purchased electric energy-----	\$256,582	\$255,452	\$351,519	\$162,611	\$78,651
Contract work-----	\$5,581	\$4,781	\$20,571	\$270	\$11,186
Cost of machinery and equipment installed during year-----	\$521,289	\$519,619	\$590,965	\$101,448	(³)
Horsepower rating of power equipment, total-----	58,418	57,768	53,417	52,354	12,498
Per wage earner-----	48.4	48.5	13.8	41.5	7.3
Prime movers-----	30,980	30,380	12,992	14,553	7,736
Electric motors driven by purchased energy-----	27,458	27,388	20,425	17,781	4,762
Electric energy consumed (thousands of kw.-hrs.), total-----	11,878	11,849	14,019	9,255	(³)
Purchased-----	11,614	11,595	13,717	9,123	(³)
Generated by reporting companies-----	264	254	302	110	(³)

¹ Statistics for 1939 exclude 1 diatomite mine; figures for this mine are included with those for the associated mill in New Hampshire.

² Includes 4 limestone quarries, with products valued at \$512,418, operated in conjunction with lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 5 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MASSACHUSETTS, BY INDUSTRY: 1939¹

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total ¹	STONE ²					SAND AND GRAVEL		Common clay and shale	All other ³
		Crushed and broken				Rough- dimension granite	Common sand and gravel	Foundry sand		
		Limestone	Granite	Basalt	Miscel- laneous					
Number of operating companies ⁴	102	6	3	10	4	16	50	3	6	4
Number of mines and quarries	112	7	3	12	4	17	55	4	6	4
Number of preparation plants	87	7	3	12	4	3	55	2	-----	1
Value of all products ⁵	\$5,229,742	\$215,141	\$268,521	\$1,575,577	\$281,485	\$556,471	\$1,902,292	\$41,710	\$40,689	\$47,858
Number of persons engaged, total	6,617	175	79	286	112	210	522	20	15	29
Wage earners (average for the year)	1,206	155	72	244	99	185	394	17	15	25
Number receiving pay during pay-roll period ending nearest the 15th of:										
January	868	125	49	208	42	103	312	11	7	16
February	745	125	49	146	41	72	285	10	4	15
March	868	146	49	171	41	135	309	10	12	15
April	1,211	181	75	200	127	188	389	20	15	15
May	1,599	210	75	282	127	210	452	19	18	28
June	1,478	174	71	322	127	265	455	18	25	28
July	1,488	157	85	322	127	276	451	19	24	29
August	1,550	161	80	280	127	228	429	15	18	29
September	1,554	152	84	280	117	210	440	24	17	30
October	1,532	156	85	275	100	218	428	20	15	35
November	1,242	154	80	244	109	172	419	20	10	34
December	1,106	133	81	218	105	142	366	17	10	34
Salaried employees	662	17	7	42	10	18	94	-----	-----	5
Proprietors and firm members	49	1	-----	-----	3	7	34	3	-----	1
Performing manual labor	24	-----	-----	-----	2	2	19	1	-----	-----
Principal expenses designated below, total	\$5,516,850	\$258,715	\$147,665	\$752,499	\$205,852	\$458,468	\$1,038,842	\$10,977	\$24,661	\$41,549
Wages	\$1,486,167	\$158,448	\$71,506	\$385,876	\$119,616	\$198,879	\$498,600	-----	-----	-----
Salaries	\$1,041,806	\$33,357	\$22,929	\$125,046	\$48,260	\$56,214	\$153,599	\$9,247	\$19,984	\$28,011
Supplies and materials	\$432,831	\$29,876	\$20,641	\$101,649	\$14,590	\$99,849	\$180,111	\$400	-----	\$4,999
Fuel	\$294,083	\$12,374	\$17,455	\$60,865	\$11,451	\$34,599	\$150,201	\$509	\$978	\$4,637
Purchased electric energy	\$256,582	\$24,680	\$14,854	\$98,783	\$12,155	\$48,927	\$72,020	\$821	\$1,969	\$4,650
Contract work	\$5,521	-----	-----	\$270	-----	-----	\$4,511	\$821	\$930	\$1,252
Cost of buildings, machinery, and equipment erected or installed during year	\$385,527	\$17,540	\$10,014	\$58,719	\$2,000	\$35,478	\$257,786	\$2,000	\$1,650	\$450
Buildings	\$84,568	-----	\$6,069	\$12,514	-----	-----	\$41,615	-----	-----	\$200
Machinery and equipment, total	\$321,269	\$17,540	\$1,975	\$46,205	\$2,000	\$35,478	\$216,171	\$2,000	\$1,650	\$250
Purchased in new condition	\$236,512	\$17,540	\$1,975	\$17,276	-----	-----	\$165,951	-----	-----	-----
Purchased in used condition	\$84,757	\$200	-----	\$28,929	-----	\$35,970	\$52,220	\$2,000	-----	\$250
Number of man-hours worked by wage earners	2,511,866	308,784	147,258	556,548	219,772	317,535	651,470	22,259	30,148	58,358
Average hourly earning of wage earners	\$0.59	\$0.51	\$0.49	\$0.69	\$0.54	\$0.63	\$0.59	\$0.42	\$0.66	\$0.45
Horsepower rating of prime movers and electric motors driven by purchased energy, total	58,418	2,500	2,066	15,980	1,981	9,526	25,184	250	650	481
Per wage earner	48.4	14.8	28.7	65.5	20.0	51.5	65.9	14.7	45.3	19.2
Prime movers	50,960	772	662	6,729	1,259	4,725	15,877	150	600	406
Electric motors driven by purchased energy	27,458	1,528	1,404	9,251	722	4,801	9,507	100	50	75
Horsepower rating of electric motors driven by energy generated by reporting companies	2,100	115	-----	1,142	-----	155	688	-----	-----	-----
Fuels consumed: ⁷										
Anthracite (tons of 2,000 pounds)	55	3	1	-----	-----	5	44	-----	-----	-----
Bituminous coal (tons of 2,000 pounds)	5,887	750	1,243	563	-----	1,828	819	-----	-----	540
Fuel oil (barrels of 42 gallons)	21,680	881	4,107	4,689	748	8,555	2,802	-----	64	-----
Gasoline and kerosene (gallons)	1,669,972	29,165	29,088	318,954	71,825	65,599	1,142,792	3,124	10,425	1,000
Electric energy consumed (thousands of kw.-hrs.), total	11,878	1,083	720	5,758	406	3,252	2,596	20	29	34
Purchased	11,614	1,071	720	5,645	406	3,247	2,442	20	29	34
Generated by reporting companies	264	12	-----	83	-----	5	154	-----	-----	-----

¹Excludes 1 diatomite mine for which statistics are included with those for the associated mill in New Hampshire.²1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 1 rough-dimension sandstone quarry, and 1 rough-dimension marble quarry are included under "All other" to avoid disclosure of confidential information.³Represents 1 manganese-ore mine, 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 1 rough-dimension sandstone quarry, and 1 rough-dimension marble quarry.⁴Companies with operations in more than 1 industry are counted only once in the totals.⁵Includes amounts received or due for contract service performed during the year.⁶Includes statistics for central-office employees in the copper-ore and lead-ore industries and at central offices not classified by industry.⁷No natural gas was reported consumed.

MASSACHUSETTS

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MASSACHUSETTS, BY COUNTY: 1939¹

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	State ¹	Berkshire	Bristol	Essex	Hampden	Hampshire	Middlesex	Norfolk ¹	Plymouth	Suffolk	Worcester	Barnstable and Franklin
Number of operating companies ²	102	13	9	8	10	8	23	11	8	3	11	6
Number of mines and quarries	112	15	9	9	11	8	28	12	8	3	11	6
Number of preparation plants	87	12	8	7	9	2	19	10	4	5	9	4
Value of all products	\$5,229,742	\$766,234	\$344,961	\$434,379	\$809,346	\$108,206	\$1,246,611	\$556,444	\$350,507	\$222,622	\$580,068	\$210,569
Number of persons engaged, total	1,617	262	113	143	125	16	549	146	48	224	120	71
Wage earners (average for the year)	1,206	229	95	122	102	12	500	112	45	46	91	54
Salaried employees	562	50	10	18	20	2	39	27	4	178	25	11
Proprietors and firm members	49	3	8	3	3	2	10	7	1		6	6
Performing manual labor	24		5	1	1	1	4	5			4	5
Principal expenses designated below, total	\$3,516,850	\$407,904	\$225,618	\$266,536	\$312,457	\$58,097	\$901,343	\$273,571	\$81,027	\$753,165	\$205,901	\$135,231
Wages	\$1,486,167	\$247,983	\$105,636	\$162,052	\$123,628	\$21,143	\$290,461	\$156,590	\$46,126	\$72,106	\$105,232	\$76,560
Salaries	\$1,041,806	\$52,219	\$21,508	\$26,156	\$30,996	\$5,201	\$156,743	\$55,999	\$10,720	\$631,247	\$29,596	\$23,417
Supplies and materials	\$432,631	\$47,420	\$46,425	\$35,656	\$33,635	\$6,072	\$162,035	\$65,049	\$6,565	\$26,737	\$16,143	\$14,076
Fuel	\$294,083	\$31,187	\$31,212	\$28,618	\$16,630	\$1,360	\$101,713	\$28,329	\$2,498	\$11,727	\$32,726	\$6,145
Purchased electric energy	\$256,582	\$28,915	\$16,423	\$24,056	\$26,793	\$6,321	\$87,317	\$26,904	\$14,150	\$11,548	\$23,842	\$10,613
Contract work	\$5,591	\$200	\$414		\$783		\$3,024		\$800		\$260	
Cost of buildings, machinery, and equipment erected or installed during year	\$365,637	\$46,538	\$32,644	\$26,474	\$20,061	\$26,158	\$108,327	\$42,922	\$12,470	\$1,131	\$54,856	\$13,996
Buildings	\$54,368	\$2,500	\$6,700	\$15,000	\$750	\$4,940	\$7,824	\$15,424	\$4,002		\$7,226	\$2,000
Machinery and equipment	\$321,269	\$44,038	\$25,944	\$11,474	\$19,311	\$21,218	\$100,503	\$29,498	\$8,468	\$1,131	\$47,630	\$11,996
Horsepower rating of prime movers and electric motors driven by purchased energy, total	58,416	4,249	3,556	3,962	5,954	1,463	18,117	8,875	2,591	918	6,428	2,315
Prime movers	30,980	1,907	2,144	2,155	2,965	619	11,302	5,671	528	312	1,673	1,418
Electric motors driven by purchased energy	27,436	2,342	1,412	1,817	2,989	844	6,815	3,204	1,963	606	4,555	897
Horsepower rating of electric motors driven by energy generated by reporting companies	412	370		42								
Fuels consumed: ³												
Anthracite (tons of 2,000 pounds)	53	24	1	6			12	5			5	
Bituminous coal (tons of 2,000 pounds)	5,687	1,308	545	441	417		2,130	618	68	26	354	
Fuel oils (barrels of 42 gallons)	21,580	1,381	13	1,061	417		13,460	4,325	75	300	483	15
Gasoline and kerosene (gallons)	1,669,972	128,083	230,592	196,077	111,258	10,601	429,765	158,593	15,544	88,549	219,440	79,450
Electric energy consumed (thousands of kw.-hrs.), total	11,878	1,219	679	1,289	1,354	243	3,833	1,120	588	347	783	423
Purchased	11,614	1,201	679	1,289	1,264	243	3,677	1,120	588	347	783	423
Generated by reporting companies	264	18			90		156					

¹Excludes 1 mine for which statistics are included with those for the associated mill in Rockingham County, New Hampshire.²Companies with operations in more than 1 county are counted only once in the totals.³No natural gas was reported consumed.

MICHIGAN

Michigan ranked eleventh among the States in 1939 in both value of products and number of wage earners employed in mineral industries.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State was 54 percent of that in 1929, and the number of wage earners 57 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 66 percent of that in 1919, and the number of wage earners 43 percent. The smaller totals for 1939 as compared with those for the two previous census years are accounted for chiefly by decreases in the iron-ore and copper-ore industries. The number of oil and gas wells reported for the State in 1939 was 3,002, compared with 19 reported in 1919. Total horsepower rating of power equipment at mineral operations in 1939 was 86 percent of that in 1929, and 106 percent of that in 1919.

The iron-ore industry ranked first among the mineral industries in the State in 1939, accounting for 39 percent of

the total value of products and 40 percent of the total number of wage earners. (See table 2.) The crude-petroleum and natural-gas industry reported 30 percent of the value of products and 15 percent of the wage earners, and the copper-ore industry 12 percent of the value of products and 22 percent of the wage earners. Michigan ranked second to Minnesota in the iron-ore industry, and accounted for 18 percent of the total tonnage of iron ore in the industry. The State was also an important producer of copper ore and crushed and broken limestone, and ranked second among all States in value of products in the gypsum industry, and third in the rock-salt industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, bituminous coal, miscellaneous stone, common sand and gravel, glass sand, foundry sand, fire clay, common clay and shale, and peat. Mineral operations (other than oil and gas wells) were located in 48 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MICHIGAN: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, peat, and rock-salt industries)		1919 AND 1919 (Excluding the common clay and shale, sand and gravel, peat, and rock-salt industries)	
		1929	1929	1919 ¹	1919
Number of mines and quarries.....	173	169	191	80	165
Number of oil and gas wells producing at end of year.....	3,002			3,002	19
Number of natural-gasoline plants.....	1			1	
Value of all products.....	\$75,996,854	\$51,689,196	\$95,261,835	\$70,787,080	\$103,870,089
Number of persons engaged, total.....	16,144	12,966	22,287	15,050	55,202
Wage earners (average for the year).....	14,293	11,894	20,829	13,359	31,292
Salaried employees.....	1,566	1,041	1,454	1,455	1,991
Proprietors and firm members.....	285	51	24	256	19
Performing manual labor.....	49	27	(a)	22	6
Principal expenses designated below, total.....	\$37,510,825	\$28,232,871	\$56,501,580	\$54,085,159	\$78,595,945
Wages.....	\$18,418,189	\$15,298,857	\$28,808,325	\$17,214,108	\$50,406,187
Salaries.....	\$3,697,290	\$2,606,861	\$3,780,738	\$3,345,217	\$4,311,559
Supplies and materials.....	\$7,506,531	\$6,141,669	\$15,779,147	\$6,903,355	\$15,204,063
Fuel.....	\$2,070,101	\$2,044,510	\$4,428,642	\$2,330,228	\$7,455,207
Purchased electric energy.....	\$2,032,621	\$1,966,564	\$2,627,471	\$1,803,620	\$989,480
Contract work.....	\$3,800,294	\$176,390	\$79,057	\$3,289,635	\$29,459
Cost of machinery and equipment installed during year.....	\$5,949,906	\$817,671	\$5,244,270	\$3,759,211	(a)
Horsepower rating of power equipment, total.....	403,941	348,473	595,723	359,167	537,882
Per wage earner.....	28.3	29.3	19.0	26.8	10.8
Prime movers.....	255,424	186,860	245,270	212,915	274,084
Electric motors driven by purchased energy.....	168,517	161,613	152,453	145,252	65,798
Electric energy consumed (thousands of kw.-hrs.), total.....	302,465	298,706	596,407	289,607	(a)
Purchased.....	152,418	148,500	174,004	140,267	(a)
Generated by reporting companies.....	150,046	148,206	222,403	149,340	(a)

¹ Includes 1 limestone quarry and 2 limestone dredging operations, with products valued at \$209,630, operated in conjunction with cement plants. Such operations were not included in the census of mineral industries for 1919.

² Not available.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MICHIGAN, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS					
		Total	Fuels ¹		Metallic ores		Crushed and broken limestone
			Crude petroleum and natural gas	Bituminous coal	Iron ore	Copper ore	
Number of operating companies ²	568	463	326	11	22	4	16
Number of mines and quarries	182	173		11	39	6	16
Number of oil and gas wells producing on December 31, 1939	3,002	3,002	3,002				
Number of preparation plants	106	106		5		6	13
Value of all products ³	\$80,648,767	\$75,396,954	\$22,568,523	\$1,725,104	\$29,465,993	\$6,411,500	\$6,696,864
Number of persons engaged, total	17,433	16,144	2,847	882	6,219	3,405	1,492
Wage earners (average for the year)	15,247	14,298	2,117	802	5,754	3,166	1,371
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	14,055	13,250	1,946	1,231	5,423	3,200	737
February	14,569	13,751	1,940	1,220	5,531	3,205	1,151
March	14,527	13,718	1,983	1,024	5,465	3,246	1,161
April	14,556	13,702	2,078	827	5,648	3,238	1,324
May	15,325	14,562	2,199	821	5,719	3,280	1,445
June	15,195	14,228	2,177	877	5,789	3,210	1,627
July	15,240	14,208	2,192	884	5,574	3,198	1,546
August	16,000	14,908	2,213	710	5,879	3,235	1,530
September	16,098	15,017	2,123	950	5,908	3,166	1,560
October	16,196	15,124	2,211	958	6,014	3,106	1,559
November	15,957	14,956	2,206	1,002	5,974	3,024	1,549
December	15,272	14,314	2,135	1,016	5,991	2,944	1,592
Salaried employees	1,810	1,566	497	79	484	239	120
Proprietors and firm members	376	285	233	1	1		1
Performing manual labor	75	49	22				
Principal expenses designated below, total	\$59,627,865	\$57,310,926	\$8,425,326	\$1,566,642	\$14,213,527	\$6,608,273	\$5,641,296
Wages	\$19,699,861	\$19,418,189	\$2,746,401	\$1,065,158	\$7,999,096	\$3,267,794	\$1,925,113
Salaries	\$4,266,823	\$3,637,290	\$997,029	\$245,094	\$1,214,410	\$319,560	\$330,027
Supplies and materials	\$7,465,705	\$7,302,531	\$1,056,787	\$145,464	\$3,267,636	\$1,459,521	\$677,654
Fuel	\$2,593,546	\$2,570,101	\$466,326	\$85,244	\$325,592	\$1,125,905	\$286,469
Purchased electric energy	\$2,102,676	\$2,032,621	\$35,011	\$25,151	\$1,326,720	\$170,506	\$205,518
Contract work	\$3,509,254	\$3,300,294	\$3,123,672	\$352	\$80,073	\$65,964	\$16,475
Cost of buildings, machinery, and equipment erected or installed during year	\$4,507,325	\$4,364,006	\$3,237,927	\$10,216	\$373,583	\$298,216	\$209,801
Buildings	\$414,748	\$414,098	\$144,542	\$1,252	\$33,321	\$115,289	\$101,600
Machinery and equipment, total	\$4,092,577	\$3,949,908	\$3,093,385	\$8,964	\$340,262	\$171,927	\$108,201
Purchased in new condition	\$3,372,245	\$3,231,076	\$2,487,082	\$4,060	\$300,727	\$137,727	\$106,564
Purchased in used condition	\$720,332	\$718,832	\$606,303	\$4,904	\$39,535	\$34,200	\$1,637
Number of man-hours worked by wage earners	26,982,967	27,425,555	3,799,026	1,319,079	10,872,026	6,724,521	2,640,816
Average hourly earning of wage earners	\$0.68	\$0.67	\$0.72	\$0.81	\$0.77	\$0.49	\$0.69
Horsepower rating of prime movers and electric motors driven by purchased energy, total	456,132	403,941	47,127	6,940	135,996	91,545	71,842
Per wage earner	28.6	28.3	22.3	6.7	23.4	28.9	52.4
Prime movers	249,130	235,424	44,670	5,898	58,265	71,629	50,323
Electric motors driven by purchased energy	197,002	168,517	2,457	1,042	55,735	19,916	21,519
Horsepower rating of electric motors driven by energy generated by reporting companies	75,096	75,068	596	3,124	21,289	29,445	21,175
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	667	637	159		26		
Bituminous coal (tons of 2,000 pounds)	402,744	401,414	232	26,717	49,595	246,999	62,207
Fuel oils (barrels of 42 gallons)	40,992	40,785	21,669		2,390	1,528	2,944
Gasoline and kerosene (gallons)	1,845,238	1,820,371	666,439	15,683	112,047	58,298	142,076
Natural gas (thousands of cubic feet)	3,685,481	3,679,056	3,526,650				
Electric energy consumed (thousands of kw.-hrs.), total	307,462	302,483	3,671	5,547	180,304	127,323	21,975
Purchased	187,397	182,418	2,074	1,040	97,463	21,794	15,109
Generated by reporting companies	120,065	120,065	1,797	2,507	22,841	105,529	16,866

¹ One natural-gasoline plant and 1 mine and 1 preparation plant in the glass-sand industry are included under "All other" to avoid disclosure of confidential information.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁵ Excludes statistics for contract-service operations.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MICHIGAN, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued					Contract- service operations ⁷	Nonproducing operations ⁸
	Sand and gravel ¹		Common clay and shale	Gypsum	All other industries ⁶		
	Common sand and gravel	Foundry sand					
Number of operating companies ²	59	6	12	5	6	70	50
Number of mines and quarries.....	68	11	12	5	5		9
Number of oil and gas wells producing on December 31, 1939.....							
Number of preparation plants.....	68	5	4	5	6		
Value of all products ³	\$2,761,611	\$356,253	\$200,649	\$715,352	\$1,492,625	\$5,251,913	
Number of persons engaged, total.....	725	48	97	142	289	1,085	224
Wage earners (average for the year).....	584	40	95	129	255	804	150
Number receiving pay during pay-roll period ending nearest the 15th of:							
January.....	276	23	84	109	221	698	107
February.....	295	18	85	115	217	715	105
March.....	376	30	82	111	220	709	100
April.....	374	42	102	116	251	729	106
May.....	725	44	99	121	259	837	128
June.....	746	45	97	117	265	802	145
July.....	740	45	103	138	298	851	141
August.....	763	47	105	144	282	907	185
September.....	745	47	106	144	278	891	190
October.....	702	48	102	148	278	885	189
November.....	611	47	100	147	277	856	185
December.....	456	43	82	145	222	791	187
Salaries employees.....	92	7	1	15	54	214	50
Proprietors and firm members.....	47	1	1			47	44
Performing manual labor.....	27					21	5
Principal expenses designated below, total.....	\$1,602,649	\$86,244	\$157,110	\$312,827	\$895,932	\$1,677,951	\$639,078
Wages.....	\$744,298	\$47,294	\$104,921	\$169,865	\$350,711	\$1,121,535	\$150,537
Salaries.....	\$228,056	\$11,044	\$5,560	\$35,787	\$104,973	\$517,596	\$62,187
Supplies and materials.....	\$287,141	\$10,618	\$26,140	\$74,755	\$144,435	\$428,581	\$124,794
Fuel.....	\$193,809	\$7,878	\$19,616	\$5,163	\$56,901	\$110,649	\$12,796
Purchased electric energy.....	\$168,658	\$10,012	\$2,541	\$51,809	\$58,912	(*)	\$70,055
Contract work.....	\$11,327		\$352			(*)	\$208,960
Cost of buildings, machinery, and equipment erected or installed during year.....	\$158,275	\$3,864	\$15,964	\$56,472	\$51,658	(*)	\$145,519
Buildings.....	\$8,087					(*)	\$650
Machinery and equipment, total.....	\$150,218	\$3,864	\$15,964	\$56,472	\$42,621	(*)	\$142,569
Purchased in new condition.....	\$99,584	\$3,320	\$15,109	\$56,472	\$42,621	(*)	\$141,189
Purchased in used condition.....	\$50,634	\$574	\$855			(*)	\$1,500
Number of man-hours worked by wage earners.....	1,320,021	84,517	214,129	249,196	502,222	1,567,801	189,611
Average hourly earning of wage earners.....	\$0.56	\$0.56	\$0.49	\$0.68	\$0.70	\$0.82	\$0.79
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	35,707	1,707	2,646	4,345	8,086	12,521	19,670
Per wage earner.....	61.1	42.7	27.9	33.7	51.7	15.6	131.1
Prime movers.....	18,555	1,027	2,314	720	2,025	12,252	1,444
Electric motors driven by purchased energy.....	17,152	680	332	5,625	6,061	259	18,228
Horsepower rating of electric motors driven by energy generated by reporting companies.....	465		56			25	5
Fuels consumed:							
Anthracite (tons of 2,000 pounds).....	435					(*)	
Bituminous coal (tons of 2,000 pounds).....	10,665	108	5,710		58	(*)	1,530
Fuel oils (barrels of 42 gallons).....	4,553	1,028		1,200	5,573	(*)	207
Gasoline and kerosene (gallons).....	811,466	32,870	25,469	6,829	51,494	(*)	24,667
Natural gas (thousands of cubic feet).....					150,405	(*)	4,426
Electric energy consumed (thousands of kw.-hrs.), total.....	9,515	411	156	2,334	3,247	(*)	4,979
Purchased.....	8,852	411	94	2,334	3,247	(*)	4,979
Generated by reporting companies.....	663		62			(*)	

¹ 1 natural-gasoline plant and 1 mine and 1 preparation plant in the glass-sand industry are included under "All other" to avoid disclosure of confidential information.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁵ Represents 1 natural-gasoline plant, 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry, 1 mine and 1 preparation plant in the glass-sand industry, 1 mine and 1 preparation plant in the fire-clay industry, 1 mine and 1 preparation plant in the peat industry, and 1 mine and 1 preparation plant in the rock-salt industry.

The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁶ Represents operations of 48 companies in the crude-petroleum and natural-gas industry and 9 iron-ore mines.

⁷ Not available.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MICHIGAN, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Alcona	Bay	Dickinson	Eaton	Genesee	Gogebic	Houghton	Ingham	Iron	Kent
Number of operating companies ¹	138	4	5	5	5	3	7	5	5	8	10
Number of mines and quarries	173	5	8	8	5	5	9	7	5	11	11
Number of preparation plants	106	4	1	2	2	2	—	7	5	1	10
Value of all products	\$55,015,551	\$1,650,292	\$257,620	\$1,403,215	\$51,255	\$42,900	\$11,255,148	\$9,417,500	\$115,749	\$4,699,959	\$496,155
Number of persons engaged, total	13,297	442	135	278	22	12	2,120	3,409	23	1,066	145
Wage earners (average for the year)	12,176	408	110	256	22	14	1,925	3,169	19	994	117
Salaried employees	1,089	54	25	39	—	1	195	239	2	72	25
Proprietors and firm members	52	—	—	1	—	4	—	1	2	—	1
Performing manual labor	27	—	—	—	—	1	—	1	—	—	1
Principal expenses designated below, total	\$28,865,500	\$1,037,650	\$281,421	\$743,717	\$25,280	\$54,540	\$4,831,597	\$4,814,175	\$45,528	\$2,516,149	\$283,029
Wages	\$15,671,788	\$558,728	\$166,805	\$420,774	\$18,165	\$16,558	\$2,325,602	\$3,271,044	\$21,921	\$1,268,966	\$154,441
Salaries	\$2,690,261	\$92,202	\$84,250	\$76,258	—	\$1,000	\$485,051	\$519,560	\$4,680	\$184,479	\$65,525
Supplies and materials	\$6,265,544	\$282,051	\$17,604	\$219,735	\$1,975	\$9,751	\$691,501	\$1,460,321	\$2,780	\$375,628	\$38,740
Fuel	\$2,065,575	\$84,088	\$11,225	\$6,290	\$2,609	\$6,099	\$239,831	\$1,126,755	\$8,404	\$24,491	\$10,516
Purchased electric energy	\$1,999,810	\$40,581	\$1,176	\$4,012	\$531	\$372	\$279,605	\$170,508	\$4,545	\$245,101	\$19,496
Contract work	\$176,782	—	\$565	\$15,550	—	—	\$9,807	\$65,964	—	\$19,184	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,126,079	\$18,792	\$1,185	\$45,129	\$720	\$24,110	\$186,090	\$283,216	\$15,899	\$62,165	\$19,465
Buildings	\$269,556	\$798	—	\$55	—	—	\$15,272	\$116,288	\$1,764	\$9,596	\$625
Machinery and equipment	\$856,523	\$17,994	\$1,185	\$45,074	\$720	\$24,110	\$170,818	\$171,927	\$14,135	\$52,569	\$18,841
Horsepower rating of prime movers and electric motors driven by purchased energy, total	356,814	17,250	980	8,266	180	697	51,808	91,685	607	22,100	4,407
Prime movers	190,754	10,187	980	7,851	152	476	25,853	71,769	316	1,424	2,582
Electric motors driven by purchased energy	166,060	7,063	—	415	48	181	25,955	19,916	291	20,676	1,825
Horsepower rating of electric motors driven by energy generated by reporting companies	74,472	6,554	342	6,951	—	—	14,173	28,443	—	—	855
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	499	—	—	—	—	—	26	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	401,182	19,128	4,877	1,208	507	—	56,915	246,999	49	3,536	—
Fuel oils (barrels of 42 gallons)	19,116	—	—	176	—	5	2,227	1,528	—	74	1,264
Gasoline and kerosene (gallons)	1,255,352	32,771	—	7,405	1,800	47,848	52,051	66,298	71,200	15,854	72,280
Natural gas (thousands of cubic feet)	150,406	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	298,612	6,815	161	14,256	19	19	36,758	127,323	216	18,844	1,661
Purchased	150,544	4,415	42	214	19	19	28,971	21,794	216	18,844	1,030
Generated by reporting companies	148,068	2,398	119	14,042	—	—	7,787	105,529	—	—	631

ITEM	Lenawee	Macomb	Marquette	Oakland	Ottawa	Saginaw	St. Clair	Shiawassee	Tuscola	Wayne	All other ²
Number of operating companies ¹	5	4	11	16	5	7	3	3	5	10	35
Number of mines and quarries	4	5	16	16	3	6	4	3	7	10	37
Number of preparation plants	2	4	2	15	2	1	4	1	3	7	55
Value of all products	\$108,872	\$171,825	\$12,351,498	\$648,859	\$247,484	\$471,848	\$180,855	\$402,294	\$795,708	\$2,406,105	\$5,929,478
Number of persons engaged, total	40	49	2,507	190	72	286	51	197	308	455	1,179
Wage earners (average for the year)	36	56	2,625	161	64	264	47	187	288	408	1,048
Salaried employees	5	10	194	18	7	21	3	9	19	55	130
Proprietors and firm members	1	3	—	11	1	1	1	1	1	2	21
Performing manual labor	1	3	—	6	—	—	1	1	—	1	11
Principal expenses designated below, total	\$68,857	\$84,731	\$6,414,324	\$457,640	\$140,599	\$449,201	\$109,492	\$321,946	\$544,307	\$1,162,265	\$2,907,254
Wages	\$43,709	\$45,999	\$5,521,202	\$222,569	\$62,931	\$300,876	\$64,650	\$252,498	\$385,025	\$608,213	\$1,451,951
Salaries	\$6,565	\$26,543	\$479,082	\$44,410	\$13,605	\$54,922	\$5,580	\$16,105	\$49,691	\$192,076	\$300,475
Supplies and materials	\$11,676	\$7,705	\$1,608,590	\$90,752	\$19,603	\$51,940	\$15,119	\$37,415	\$71,718	\$205,561	\$664,694
Fuel	\$5,505	\$5,216	\$57,031	\$37,289	\$30,116	\$51,692	\$25,765	\$7,775	\$25,716	\$70,360	\$244,814
Purchased electric energy	\$1,202	\$1,568	\$710,987	\$62,840	\$14,544	\$9,981	\$360	\$17,185	\$3,995	\$97,748	\$215,176
Contract work	—	—	\$27,432	—	—	—	—	—	\$166	—	\$30,134
Cost of buildings, machinery, and equipment erected or installed during year	\$19,295	\$5,200	\$129,602	\$25,809	\$5,061	\$3,518	—	\$4,598	\$12,174	\$84,819	\$225,433
Buildings	—	—	\$10,598	\$1,908	—	—	—	\$1,252	—	\$25,525	\$88,078
Machinery and equipment	\$19,295	\$5,200	\$119,004	\$21,905	\$5,061	\$3,518	—	\$3,346	\$12,174	\$59,294	\$137,355
Horsepower rating of prime movers and electric motors driven by purchased energy, total	693	954	53,680	10,826	2,295	1,581	1,624	1,827	4,639	24,455	56,532
Prime movers	577	854	5,769	4,723	655	1,270	1,584	806	4,099	15,462	55,806
Electric motors driven by purchased energy	116	80	49,911	6,105	1,628	311	40	1,031	540	6,993	21,024
Horsepower rating of electric motors driven by energy generated by reporting companies	352	—	145	76	—	532	—	734	1,496	—	14,289
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	457	—	—	—	—	—	—	16	—
Bituminous coal (tons of 2,000 pounds)	233	404	7,945	2,592	797	14,207	4,447	1,898	5,996	11,587	36,253
Fuel oils (barrels of 42 gallons)	1,150	191	289	625	625	66	—	—	—	5,401	4,897
Gasoline and kerosene (gallons)	15,984	22,532	45,459	141,928	81,151	27,006	5,000	27,300	33,477	92,814	408,066
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	—	405	150,000
Electric energy consumed (thousands of kw.-hrs.), total	1,242	49	48,610	3,593	922	1,138	10	787	1,579	5,916	26,676
Purchased	28	49	48,798	3,519	922	400	10	742	174	5,916	15,422
Generated by reporting companies	1,214	—	12	64	—	738	—	45	1,405	—	11,254

¹ Companies with operations in more than 1 county are counted only once in the totals.² Alcona, Barry, Berrien, Branch, Calhoun, Chippewa, Delta, Emmet, Gladwin, Gratiot, Huron, Ionia, Isoco, Jackson, Kalamazoo, Livingston, Mackinac, Manistee, Mason, Midland, Monroe, Montcalm, Muskegon, Osceola, Presque Isle, Schoolcraft, Van Buren, and Washtenaw.

MINNESOTA

Minnesota ranked eighth among the States in value of products of mineral industries in 1939, and twenty-third in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 74 percent of that in 1929, and the number of wage earners 57 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 74 percent of that in 1919, and the number of wage earners 37 percent. Differences in totals between 1939 and the two previous census years are accounted for chiefly by decreases in the iron-ore industry. Total horsepower rating of power equipment at mineral operations in 1939 was 148 percent

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

of that in 1929, and 200 percent of that in 1919.

The iron-ore industry accounted for 98 percent of the value of products and 90 percent of the wage earners employed in all mineral industries in the State. Operations in the State accounted for 64 percent of the value of products of the iron-ore industry in the United States. (See report for this industry.)

Other mineral industries in the State were limestone, granite, basalt, miscellaneous stone, common sand and gravel, foundry sand, common clay and shale, natural abrasives, and peat. Mineral operations were located in 39 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MINNESOTA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1929 ¹	1929	1939 ¹ 2	1919
Number of mines and quarries	170	184	172	116	196
Value of all products	\$98,710,547	\$98,598,845	\$132,400,530	\$97,081,519	\$130,399,254
Number of persons engaged, total	8,927	7,969	12,918	7,590	18,562
Wage earners (average for the year)	6,716	6,667	11,613	6,562	17,265
Salaries employees	1,255	1,246	1,278	1,198	1,257
Proprietors and firm members	56	56	27	50	40
Performing manual labor	27	27	(3)	18	19
Principal expenses designated below, total	\$20,401,697	\$20,326,823	\$37,000,341	\$19,571,163	\$52,728,355
Wages	\$9,616,219	\$2,768,969	\$18,180,303	\$9,443,703	\$29,365,021
Salaries	\$5,359,986	\$5,328,631	\$5,225,760	\$5,209,626	\$5,048,421
Supplies and materials	\$4,014,102	\$4,002,682	\$9,454,474	\$3,875,128	\$14,101,962
Fuel	\$1,576,448	\$1,571,599	\$2,785,705	\$1,488,362	\$4,155,159
Purchased electric energy	\$1,557,652	\$1,557,652	\$1,675,823	\$1,483,785	\$526,784
Contract work	\$97,290	\$97,290	\$1,480,256	\$70,559	\$1,512,999
Cost of machinery and equipment installed during year	\$1,395,792	\$1,395,068	\$2,610,545	\$1,279,958	(3)
Horsepower rating of power equipment, total	309,190	308,607	208,741	288,544	144,199
Per wage earner	46.0	46.3	18.0	45.4	8.4
Prime movers	189,568	168,965	110,605	157,129	114,354
Electric motors driven by purchased energy	139,622	139,622	97,936	131,415	29,845
Electric energy consumed (thousands of kw.-hrs.), total	95,362	93,266	111,857	90,161	(3)
Purchased	92,959	92,939	107,436	89,927	(3)
Generated by reporting companies	423	327	4,421	224	(3)

¹Includes 2 mines and 2 preparation plants in the peat industry. This industry was not included in the census of mineral industries for 1929 or 1919.

²Includes 1 limestone quarry operated in conjunction with a cement plant. Such quarries were not included in the census of mineral industries for 1919.

³Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MINNESOTA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS										Contract-service operations ⁴	Nonproducing operations ⁵
		Total	Iron ore	Stone		Sand and gravel		Common clay and shale	Natural abrasives and peat ³				
				Crushed and broken		Rough dimension ²	Common sand and gravel			Foundry sand			
				Limestone	Other ¹								
Number of operating companies ⁶	120	110	29	9	3	23	37	4	5	3	6	7	
Number of mines and quarries	178	170	69	10	2	32	44	4	6	5	—	8	
Number of preparation plants	87	83	17	10	3	2	44	3	1	3	—	4	
Value of all products ⁷	\$98,685,929	\$98,710,647	\$96,250,806	\$284,472	\$35,939	\$478,459	\$1,487,005	\$28,321	\$113,802	\$32,045	\$175,282	—	
Number of persons engaged, total	8,210	8,027	7,198	119	14	211	399	18	50	19	91	92	
Wage earners (average for the year)	6,868	6,716	6,030	109	13	193	291	14	49	17	74	78	
Number receiving pay during pay-roll period ending nearest the 15th of:													
January	4,938	4,853	4,538	26	8	131	98	7	30	15	13	72	
February	5,111	5,024	4,696	30	6	148	94	9	29	12	16	71	
March	5,367	5,272	4,854	63	7	166	129	10	31	12	22	73	
April	6,228	6,107	5,457	115	13	188	273	10	40	11	37	82	
May	7,285	7,137	6,353	147	17	196	340	10	32	20	64	82	
June	7,005	7,434	6,563	162	15	205	378	30	30	21	75	98	
July	7,599	7,256	6,301	169	16	216	441	28	35	20	78	65	
August	7,654	7,691	6,783	124	18	230	441	12	35	20	85	58	
September	7,843	7,677	6,781	151	17	225	408	17	35	15	111	55	
October	8,509	8,127	7,273	143	18	221	389	12	35	16	126	46	
November	7,748	7,323	6,798	125	11	195	319	10	30	20	122	101	
December	6,722	6,496	5,972	59	6	185	184	10	30	22	126	110	
Salaried employees	1,279	1,255	1,154	7	1	18	55	1	1	1	8	16	
Proprietors and firm members	65	56	4	3	2	20	23	3	—	1	9	—	
Performing manual labor	52	27	2	5	2	11	8	1	—	—	5	—	
Principal expenses designated below, total	\$20,748,807	\$20,401,697	\$18,943,866	\$205,431	\$27,646	\$351,786	\$758,982	\$11,533	\$65,019	\$17,404	\$158,335	\$186,775	
Wages	\$9,987,328	\$9,816,219	\$9,120,330	\$101,992	\$9,959	\$198,206	\$315,008	\$9,458	\$47,280	\$13,316	\$93,874	\$77,535	
Salaries	\$3,397,613	\$3,339,966	\$3,156,294	\$11,390	\$1,200	\$11,618	\$128,080	\$790	\$1,300	\$2,098	\$19,024	\$38,603	
Supplies and materials	\$4,089,168	\$4,014,102	\$3,784,219	\$33,462	\$14,856	\$72,101	\$127,090	\$484	\$11,420	\$490	\$56,372	\$58,694	
Fuel	\$1,588,296	\$1,576,448	\$1,443,628	\$32,309	\$805	\$10,253	\$62,541	\$696	\$4,849	\$1,367	\$7,375	\$4,275	
Purchased electric energy	\$1,580,744	\$1,557,652	\$1,414,605	\$17,741	\$928	\$30,378	\$73,732	\$155	—	\$135	\$1,792	\$21,500	
Contract work	\$105,658	\$97,290	\$54,790	\$6,537	—	\$9,232	\$28,731	—	—	—	(11)	\$6,568	
Cost of buildings, machinery, and equipment erected or installed during year	\$1,792,474	\$1,780,936	\$1,603,836	\$17,812	\$525	\$14,992	\$119,119	\$2,780	\$1,421	\$500	\$27,200	\$4,336	
Buildings	\$337,543	\$337,144	\$331,911	\$5,164	—	\$133	\$8,699	\$40	\$897	\$300	(11)	\$399	
Machinery and equipment, total	\$1,357,751	\$1,353,792	\$1,251,925	\$12,648	\$525	\$14,960	\$110,420	\$2,690	\$724	—	(11)	\$3,937	
Purchased in new condition	\$1,219,551	\$1,217,276	\$1,121,913	\$10,300	\$75	\$5,461	\$76,449	\$2,690	\$598	—	(11)	\$2,275	
Purchased in used condition	\$138,180	\$136,516	\$130,012	\$2,348	\$450	\$9,399	\$33,971	—	\$556	—	(11)	\$1,664	
Number of man-hours worked by wage earners	13,215,451	12,971,372	11,707,027	194,886	19,890	358,113	543,474	20,583	86,903	32,496	151,837	112,242	
Average hourly earning of wage earners	\$0.76	\$0.76	\$0.76	\$0.82	\$0.50	\$0.56	\$0.58	\$0.46	\$0.49	\$0.41	\$0.71	\$0.69	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	317,966	309,190	278,370	4,229	512	5,110	19,940	123	593	323	2,357	6,439	
Per wage earner	46.3	46.0	46.2	58.8	59.4	28.5	68.5	8.8	11.9	18.0	31.9	84.7	
Prime movers	174,518	169,568	152,795	2,616	290	1,166	11,739	118	593	282	2,255	2,715	
Electric motors driven by purchased energy	143,468	139,622	125,575	1,613	322	3,944	8,202	5	—	51	122	3,724	
Horsepower rating of electric motors driven by energy generated by reporting companies	5,235	1,047	600	—	—	—	212	—	110	125	—	4,186	
Fuels consumed: ¹²													
Anthracite (tons of 2,000 pounds)	1023,807	23,805	23,765	—	—	40	—	—	—	—	(11)	2	
Bituminous coal (tons of 2,000 pounds)	10176,441	176,010	172,585	504	30	510	2,346	—	—	35	(11)	451	
Fuel oils (barrels of 42 gallons)	1025,530	25,287	21,929	782	—	1,158	891	100	251	176	(11)	243	
Gasoline and kerosene (gallons)	101,223,901	1,222,586	610,521	170,540	3,000	14,285	392,218	2,000	27,561	2,460	(11)	1,215	
Electric energy consumed (thousands of kw.-hrs.), total	1094,495	93,562	87,041	738	26	2,330	3,112	3	96	16	(11)	1,133	
Purchased	1094,021	92,939	86,830	738	26	2,330	3,009	3	—	3	(11)	1,062	
Generated by reporting companies	10474	423	211	—	—	—	103	—	96	13	(11)	51	

¹ Represents 1 crushing plant in the crushed and broken granite industry, 1 quarry and 1 crushing plant in the crushed and broken basalt industry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.

² Represents 2 rough-dimension limestone quarries, and 30 quarries and 2 crushing plants in the rough-dimension granite industry.

³ Represents 1 mine and 1 preparation plant in the natural-abrasives industry, and 2 mines and 2 preparation plants in the peat industry.

⁴ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁵ Represents 7 mines and 3 beneficiating plants in the iron-ore industry and 1 quarry and 1 crushing plant in the rough-dimension granite industry.

⁶ Companies with operations in more than 1 industry are counted only once in the totals.

⁷ Includes amounts received or due for contract services performed during the year.

⁸ Includes statistics for central-office employees in the crude-petroleum and natural-gas, bituminous-coal, lignite, and vermiculite industries, and at central offices not classified by industry.

⁹ Contract-service operators were not asked to report expenditures for contract work.

¹⁰ Excludes statistics for contract-service operations.

¹¹ Not available.

¹² No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MINNESOTA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Blue Earth	Crow Wing	Dakota	Hennepin	Itasca	Lac qui Parle	Mower
Number of operating companies ¹	110	4	5	5	11	12	4	3
Number of mines and quarries	170	5	10	5	12	25	4	3
Number of preparation plants	83	4	3	4	12	12	—	3
Value of all products	\$99,719,947	\$148,568	\$5,405,655	\$83,168	\$611,049	\$20,751,885	\$80,375	\$35,402
Number of persons engaged, total	8,027	50	515	27	116	1,822	33	19
Wage earners (average for the year)	6,716	41	466	21	78	1,626	31	17
Salaries employees	1,255	9	49	4	35	195	1	—
Proprietors and firm members	56	—	—	2	3	1	1	2
Performing manual labor	27	—	—	—	—	1	—	2
Principal expenses designated below, total	\$20,401,697	\$88,051	\$1,528,712	\$41,801	\$312,159	\$4,844,748	\$66,552	\$32,287
Wages	\$9,616,219	\$42,965	\$583,402	\$21,938	\$119,142	\$2,470,507	\$35,457	\$15,619
Salaries	\$3,339,986	\$24,056	\$115,564	\$5,400	\$88,077	\$480,487	\$1,905	—
Supplies and materials	\$4,014,102	\$7,596	\$171,299	\$8,006	\$41,680	\$1,087,886	\$20,734	\$6,610
Fuel	\$1,976,448	\$6,906	\$270,680	\$4,115	\$21,628	\$314,844	\$818	\$7,078
Purchased electric energy	\$1,567,682	\$6,440	\$171,684	\$2,544	\$44,075	\$475,781	\$5,488	\$2,130
Contract work	\$87,290	\$88	\$16,145	—	\$2,597	\$5,475	\$4,154	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,760,956	\$11,750	\$160,607	\$430	\$15,064	\$939,210	\$9,562	\$806
Buildings	\$567,144	—	\$12,456	\$540	\$2,000	\$168,477	\$153	\$350
Machinery and equipment	\$1,393,792	\$11,750	\$148,171	\$90	\$15,064	\$770,733	\$9,229	\$456
Horsepower rating of prime movers and electric motors driven by purchased energy, total	309,190	1,922	22,552	618	6,563	101,402	520	1,251
Prime movers	109,508	1,561	10,895	408	1,995	47,252	60	1,108
Electric motors driven by purchased energy	129,622	561	11,657	210	4,570	54,150	460	143
Horsepower rating of electric motors driven by energy generated by reporting companies	1,047	96	—	—	—	—	—	—
Fuels consumed: ²								
Anthracite (tons of 2,000 pounds)	23,803	—	23,276	—	—	283	—	—
Bituminous coal (tons of 2,000 pounds)	178,016	217	19,577	—	1,722	38,183	25	—
Fuel oils (barrels of 42 gallons)	25,207	250	1,588	—	708	7,169	122	65
Gasoline and kerosene (gallons)	1,222,966	29,152	64,019	26,250	58,750	214,924	—	54,000
Electric energy consumed (thousands of kw.-hrs.), total	93,362	303	11,551	81	1,887	31,018	235	111
Purchased	92,949	212	11,551	81	1,887	31,018	235	111
Generated by reporting companies	423	91	—	—	—	—	—	—

ITEM	Ramsey	Renwood	Renville	St. Louis	Stearns	Steele	Winona	All other ³
Number of operating companies ¹	5	4	3	25	10	3	3	27
Number of mines and quarries	6	4	3	42	12	3	4	32
Number of preparation plants	5	1	1	9	1	5	4	21
Value of all products	\$221,296	\$39,460	\$105,204	\$72,295,455	\$148,575	\$68,825	\$151,122	\$586,108
Number of persons engaged, total	66	21	37	4,999	80	20	20	262
Wage earners (average for the year)	55	11	55	3,992	67	17	17	242
Salaries employees	27	5	—	897	7	—	2	24
Proprietors and firm members	4	5	2	10	6	5	1	15
Performing manual labor	—	5	—	2	4	—	1	8
Principal expenses designated below, total	\$235,428	\$18,078	\$67,393	\$12,765,292	\$114,669	\$41,237	\$49,118	\$395,234
Wages	\$55,246	\$9,566	\$59,396	\$6,117,435	\$70,602	\$19,079	\$19,100	\$200,767
Salaries	\$120,415	\$387	—	\$2,455,017	\$2,126	—	\$5,120	\$40,460
Supplies and materials	\$20,214	\$276	\$15,258	\$2,523,587	\$16,199	\$8,588	\$11,850	\$78,012
Fuel	\$9,195	\$5,345	\$1,909	\$870,245	\$1,558	\$9,850	\$4,414	\$48,341
Purchased electric energy	\$8,539	\$1,504	\$12,550	\$770,428	\$25,654	\$2,888	\$10,654	\$18,795
Contract work	\$24,837	—	—	\$31,782	\$530	\$837	—	\$8,839
Cost of buildings, machinery, and equipment erected or installed during year	\$31,000	—	\$601	\$549,403	\$1,125	\$1,592	\$1,950	\$36,236
Buildings	—	—	—	\$172,014	—	—	—	\$11,394
Machinery and equipment	\$31,000	—	\$601	\$577,389	\$1,125	\$1,592	\$1,950	\$25,842
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,670	608	1,670	187,951	1,632	620	1,055	8,196
Prime movers	1,300	565	270	97,152	50	446	405	6,305
Electric motors driven by purchased energy	1,370	45	1,400	60,779	1,582	174	630	1,881
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	600	—	—	—	355
Fuels consumed: ²								
Anthracite (tons of 2,000 pounds)	—	—	—	228	40	—	—	696
Bituminous coal (tons of 2,000 pounds)	526	10	40	114,928	115	—	70	1,139
Fuel oils (barrels of 42 gallons)	107	394	2,667	15,404	156	—	206	1,139
Gasoline and kerosene (gallons)	16,951	33,394	—	590,595	100	72,000	22,875	297,131
Electric energy consumed (thousands of kw.-hrs.), total	407	66	624	44,580	1,090	104	495	612
Purchased	407	66	624	44,569	1,090	104	495	601
Generated by reporting companies	—	—	—	211	—	—	—	121

¹ Companies with operations in more than 1 county are counted only once in the totals.
² No natural gas was reported consumed.

³ Aitkin, Anoka, Becker, Beltrami, Benton, Big Stone, Brown, Carlton, Carver, Clay, Fillmore, Goodhue, Kanabec, Kandiyohi, Lake, Le Sueur, Mille Lacs, Morrison, Nicollet, Olmsted, Pipestone, Polk, Rock, Washington, and Yellow Medicine.

MISSISSIPPI

Mississippi ranked forty-third among the States in both value of products and number of wage earners employed in mineral industries in 1939.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 126 percent of that in 1929, and the number of wage earners 135 percent. (See table 1.) The 1929 totals for the State include statistics for one limestone enterprise in Louisiana and are not strictly comparable to those for 1939, which apply wholly to Mississippi. Among industries canvassed in 1919 only two enterprises, with seven wage earners, were reported for the State.

¹ Statements in this text refer to producing operations only; for statistics of nonproducing operations see table 2. No contract-service operations were reported for the State in 1939.

The common sand and gravel industry ranked first among the mineral industries in the State in 1939, accounting for 54 percent of the total value of products and 77 percent of the total number of wage earners in all mineral industries in the State. (See table 2.) The crude-petroleum and natural-gas industry reported 33 percent of the total value of products, and 7 percent of the wage earners. Other mineral industries in the State were kaolin and ball clay, common clay and shale, and bentonite. (For detailed statistics for these industries see industry reports.)

Mineral operations (other than oil and gas wells) were located in 22 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MISSISSIPPI: 1939 AND 1929¹
(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)	
		1939	1929 ²			1939	1929 ²
Number of mines and quarries—	45	59	16	Principal expenses designated below, total—	\$1,169,624	\$751,912	\$779,669
Number of oil and gas wells producing at end of year—	47			Wages—	\$361,857	\$246,138	\$327,765
Value of all products—	\$2,159,056	\$1,395,597	\$1,108,553	Salaries—	\$175,097	\$141,865	\$117,492
Number of persons engaged, total—	644	560	415	Supplies and materials—	\$211,857	\$151,677	\$174,749
Wage earners (average for the year)—	551	487	362	Fuel—	\$140,868	\$92,414	\$98,621
Salaried employees—	80	62	52	Purchased electric energy—	\$72,215	\$71,432	\$66,574
Proprietors and firm members—	13	11	1	Contract work—	\$210,226	\$6,556	\$4,198
Performing manual labor—	3	3	(³)	Cost of machinery and equipment installed during year—	\$265,410	\$124,593	\$81,376
				Horsepower rating of power equipment, total—	13,911	12,165	6,969
				Per wage earner—	25.1	25.0	18.9
				Prime movers—	3,810	7,189	4,661
				Electric motors driven by purchased energy—	5,001	4,976	2,197
				Electric energy consumed (thousands of kw.-hrs.) ⁴ —	3,789	3,750	2,591

¹ Only 2 mineral enterprises that employed 7 wage earners were reported in Mississippi in 1919. The census of mineral industries for 1919 did not cover the common clay and shale or common sand and gravel industries in which 40 mines were reported for the State in 1939.

² Statistics for 1 limestone enterprise in Louisiana are included in all items except "Electric energy consumed."

³ Not available.

⁴ Represents purchased energy; no electric energy was reported generated by reporting companies.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSISSIPPI, BY INDUSTRY: 1939

(For producing and nonproducing operations only)¹

ITEM	All operations in all industries ¹	PRODUCING OPERATIONS					Nonproducing operations ³
		Total	Crude petroleum and natural gas	Clay		Common sand and gravel	
				Kaolin and ball clay and bentonite ²	Common clay and shale		
Number of operating companies ⁴	58	49	19	4	6	20	10
Number of mines and quarries.....	45	45	—	5	6	34	—
Number of oil and gas wells producing on December 31, 1939.....	47	47	47	—	—	—	—
Number of preparation plants.....	37	37	—	3	—	34	—
Value of all products ⁵	\$2,139,086	\$2,139,086	\$712,093	\$235,209	\$33,556	\$1,160,178	—
Number of persons engaged, total.....	716	644	60	68	24	492	72
Wage earners (average for the year).....	599	551	41	60	23	427	59
Number receiving pay during pay-roll period ending nearest the 15th of:							
January.....	551	517	9	58	20	480	14
February.....	455	425	9	45	20	351	28
March.....	499	460	9	61	23	367	59
April.....	542	505	9	64	25	407	37
May.....	578	543	9	78	23	455	35
June.....	577	527	9	64	23	451	30
July.....	620	549	9	50	25	467	71
August.....	629	554	9	65	24	456	75
September.....	627	604	58	60	23	463	23
October.....	592	573	63	56	23	451	19
November.....	687	650	119	64	23	444	37
December.....	742	703	175	63	21	444	39
Salaried employees.....	106	80	18	8	—	54	26
Proprietors and firm members.....	21	13	1	—	1	11	6
Performing manual labor.....	6	3	—	—	—	3	1
Principal expenses designated below, total.....	\$1,716,626	\$1,169,624	\$394,452	\$101,891	\$23,260	\$650,021	\$549,002
Wages.....	\$426,986	\$361,857	\$56,984	\$39,567	\$14,735	\$248,571	\$67,129
Salaries.....	\$226,756	\$173,097	\$31,232	\$24,072	—	\$117,793	\$55,636
Supplies and materials.....	\$274,136	\$211,857	\$37,105	\$22,789	\$3,077	\$128,888	\$62,281
Fuel.....	\$169,233	\$140,868	\$44,504	\$6,372	\$3,450	\$86,042	\$28,865
Purchased electric energy.....	\$72,219	\$72,219	\$37	\$2,755	\$700	\$68,727	—
Contract work.....	\$545,514	\$210,226	\$202,592	\$6,536	\$1,298	—	\$335,086
Cost of buildings, machinery, and equipment erected or installed during year.....	\$516,697	\$281,159	\$145,252	\$59,994	—	\$77,913	\$35,536
Buildings.....	\$18,542	\$15,749	\$2,425	\$11,950	—	\$1,394	\$2,598
Machinery and equipment, total.....	\$298,555	\$265,410	\$140,627	\$48,064	—	\$76,519	\$52,945
Purchased in new condition.....	\$245,645	\$210,696	\$129,285	\$35,584	—	\$45,829	\$32,945
Purchased in used condition.....	\$54,712	\$54,712	\$11,542	\$12,480	—	\$30,690	—
Number of man-hours worked by wage earners.....	1,172,999	1,108,171	66,588	121,771	45,513	874,299	66,828
Average hourly earning of wage earners.....	\$0.37	\$0.33	\$0.69	\$0.32	\$0.34	\$0.28	\$1.00
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	14,111	15,611	1,360	986	286	11,179	300
For wage earner.....	24.0	25.1	33.2	16.4	12.4	26.2	7.9
Prime movers.....	9,110	8,810	1,360	423	261	6,766	300
Electric motors driven by purchased energy ⁶	5,001	5,001	—	563	25	4,413	—
Fuels consumed: ⁷							
Bituminous coal (tons of 2,000 pounds).....	3,502	3,502	—	—	—	3,502	—
Fuel oils (barrels of 42 gallons).....	79,528	57,597	42,686	2,907	—	12,004	21,781
Gasoline and kerosene (gallons).....	530,596	287,569	15,105	2,200	16,245	254,019	42,619
Natural gas (thousands of cubic feet).....	26,733	10,733	6,000	570	453	5,710	16,000
Electric energy consumed (thousands of kw.-hrs.) ⁸	3,789	3,789	1	117	38	3,633	—

¹ 2 concerns engaged in oil- and gas-field contract services reported that the major portion of their work was in Mississippi but are not included in the table to avoid disclosure of confidential information.

² Represents 1 mine and 1 preparation plant in the kaolin and ball-clay industry and 4 mines and 2 preparation plants in the bentonite industry.

³ All nonproducing operations were in the crude-petroleum and natural-gas industry.

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

⁵ Includes amounts received or due for contract services performed during the year.

⁶ No electric motors were reported driven by energy generated by reporting companies.

⁷ No anthracite was reported consumed.

⁸ Represents purchased energy; no electric energy was reported generated by reporting companies.

MISSISSIPPI

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSISSIPPI, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Forrest	Lowndes	Monroe	All other ¹
Number of operating companies ² -----	30	3	5	5	17
Number of mines and quarries-----	45	4	5	5	31
Number of preparation plants-----	57	3	4	5	25
Value of all products-----	\$1,426,945	\$22,728	\$165,627	\$99,698	\$1,080,900
Number of persons engaged, total-----	584	45	89	60	390
Wage earners (average for the year)-----	519	38	72	45	354
Salaried employees-----	62	7	13	11	31
Proprietors and firm members-----	12	-----	3	4	5
Performing manual labor-----	5	-----	-----	2	1
Principal expenses designated below, total-----	\$775,172	\$52,596	\$21,535	\$79,855	\$551,246
Wages-----	\$502,875	\$20,464	\$17,069	\$19,362	\$235,988
Salaries-----	\$141,865	\$12,006	\$20,293	\$24,385	\$65,181
Supplies and materials-----	\$154,754	\$1,215	\$13,147	\$16,652	\$123,740
Fuel-----	\$95,864	\$2,765	\$11,693	\$4,291	\$77,217
Purchased electric energy-----	\$72,182	\$15,058	\$9,413	\$6,829	\$27,872
Contract work-----	\$7,684	-----	-----	\$5,356	\$1,298
Cost of buildings, machinery, and equipment erected or installed during year-----	\$137,907	\$6,250	\$17,281	\$22,651	\$81,725
Buildings-----	\$15,324	-----	\$1,394	\$5,811	\$6,119
Machinery and equipment-----	\$124,583	\$6,250	\$15,887	\$16,840	\$75,606
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	12,451	1,468	1,695	1,213	6,077
Prime movers-----	7,450	280	1,180	570	5,420
Electric motors driven by purchased energy ³ -----	5,001	1,186	515	643	2,657
Fuels consumed: ⁴					
Bituminous coal (tons of 2,000 pounds)-----	5,502	-----	742	112	2,447
Fuel oils (barrels of 42 gallons)-----	14,611	800	1,181	-----	13,230
Gasoline and kerosene (gallons)-----	272,464	7,085	46,474	16,422	202,555
Natural gas (thousands of cubic feet)-----	4,733	-----	-----	4,260	433
Electric energy consumed (thousands of kw.-hrs.) ⁵ -----	5,768	1,172	557	593	1,466

¹ Adams, Alcorn, Carroll, Copiah, Franklin, Hancock, Hinds, Holmes, Itawamba, Lawrence, Lincoln, Panola, Pearl River, Perry, Pontotoc, Smith, Tishomingo, Washington, and Winston.

² Companies with operations in more than 1 county are counted only once in the totals.

³ No electric motors were reported driven by energy generated by reporting companies.

⁴ No anthracite was reported consumed.

⁵ Represents purchased energy; no electric energy was reported generated by reporting companies.

MISSOURI

Missouri ranked twenty-third among the States in value of products of mineral industries in 1939, and twentieth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 57 percent of that in 1929, and the number of wage earners 68 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 76 percent of that in 1919, and the number of wage earners 59 percent. Differences between the totals for 1939 and the two previous census years are accounted for chiefly by decreases in the bituminous-coal and lead-ore industries. Total horsepower rating of power equipment for 1939 was 132 percent of that in 1929, and 204 percent of that in 1919.

The lead-ore industry ranked first in the State in value of products, with 44 percent of the total; the bituminous-coal industry was second, with 23 percent; and the crushed and broken limestone industry third, with 14 percent. In terms of

number of wage earners employed, the bituminous-coal industry ranked first with 35 percent of the total; the lead-ore industry followed with 25 percent; and the crushed and broken limestone industry was third with 19 percent. Missouri ranked first among all States in value of products in the lead-ore, barite, and tripoli industries in the United States, and produced 71 percent of the total tonnage of crude ore mined in the lead-ore industry. In terms of value of products the State ranked third among all States in the fire-clay and pyrites industries. (See reports for these industries.)

Other mineral industries in the State were crude petroleum and natural gas, iron ore, zinc ore, limestone (rough dimension), granite, slate, marble, miscellaneous stone, common sand and gravel, glass sand, foundry sand, common clay and shale, and native asphalt and bitumens. Mineral operations (other than oil and gas wells) were located in 76 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text apply to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MISSOURI: 1939, 1929, AND 1919¹

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, and rock-salt industries)		1939 AND 1919 (Excluding the common clay and shale, common sand and gravel, glass-sand, and rock-salt industries)	
		1939	1929	1939*	1919
Number of mines and quarries-----	456	459	439	405	494
Number of oil and gas wells producing at end of year-----	132			132	
Value of all products-----	\$27,166,920	\$26,965,285	\$47,276,257	\$25,212,886	\$33,365,025
Number of persons engaged, total-----	11,066	10,376	14,689	10,532	16,568
Wage earners (average for the year)-----	9,259	9,186	15,413	8,620	14,867
Salaries ² employees-----	1,531	922	1,050	1,448	1,004
Proprietors and firm members-----	277	266	241	264	497
Performing manual labor-----	167	162	(3)	167	219
Principal expenses designated below, total-----	\$13,800,828	\$17,119,467	\$27,879,482	\$17,722,508	\$25,876,332
Wages-----	\$8,903,964	\$8,844,190	\$16,326,962	\$8,412,518	\$10,777,553
Salaries-----	\$3,677,857	\$2,105,118	\$2,320,358	\$3,520,294	\$1,863,624
Supplies and materials-----	\$3,884,697	\$3,877,256	\$5,836,202	\$3,843,567	\$4,784,079
Fuel-----	\$540,812	\$532,864	\$843,371	\$439,938	\$1,745,747
Purchased electric energy-----	\$1,621,306	\$1,615,462	\$2,415,781	\$1,559,395	\$280,866
Contract work-----	\$172,195	\$145,577	\$156,808	\$186,827	\$415,843
Cost of machinery and equipment installed during year-----	\$618,169	\$609,427	\$1,677,159	\$555,958	(3)
Horsepower rating of power equipment, total-----	220,954	218,754	165,568	204,674	100,180
Per wage earner-----	25.9	23.8	12.3	25.2	6.7
Prime movers-----	85,894	84,201	57,706	55,791	82,967
Electric motors driven by purchased energy-----	155,060	154,553	107,662	148,883	4,17,183
Electric energy consumed (thousands of kw.-hrs.), total-----	167,426	166,949	277,827	162,264	(3)
Purchased-----	162,185	161,704	205,855	158,185	(3)
Generated by reporting companies-----	5,245	5,245	71,992	4,079	(3)

¹ Statistics for 1939 include 1 tripoli mine in Oklahoma.

² Includes 1 mine and 1 preparation plant in the foundry-sand industry. Also includes 12 limestone mines and quarries, with products valued at \$1,544,291, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 90 horsepower for equipment operated by purchased power other than electric.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSOURI, BY INDUSTRY: 1939¹

ITEM	Operations in all industries ²	PRODUCING OPERATIONS									
		Total	Fuels		Metallic ores			Stones			
			Crude petro- leum and natural gas	Bituminous coal	Iron ore	Lead ore	Zinc ore	Crushed and broken limestone	Granite, slate, and mis- cellane- ous ³	Rough dimension marble	Lime- stone and granite ⁴
Number of operating companies ⁵ -----	420	387	7	179	4	6	20	54	3	3	4
Number of mines and quarries-----	460	456	-----	180	6	9	19	60	3	3	5
Number of oil and gas wells producing on December 31, 1939-----	132	132	132	-----	-----	-----	-----	-----	-----	-----	-----
Number of preparation plants-----	152	137	-----	10	-----	8	11	63	3	1	-----
Value of all products ⁶ -----	\$27,264,096	\$27,166,320	\$58,936	\$6,132,612	\$55,475	\$11,874,127	\$903,644	\$3,822,289	\$25,017	\$179,122	\$106,678
Number of persons engaged, total-----	11,156	11,095	602	5,661	62	2,643	490	1,962	22	124	69
Wage earners (average for the year)-----	9,320	9,268	11	5,275	50	2,285	352	1,797	19	113	59
Number receiving pay during pay-roll period ending nearest the 15th of:											
January-----	9,768	9,729	10	4,907	14	2,275	225	1,863	6	109	36
February-----	9,551	9,512	10	4,449	2	2,281	235	1,279	7	108	36
March-----	9,575	9,535	10	4,134	26	2,287	278	1,480	9	101	37
April-----	8,761	8,676	10	2,724	30	2,282	299	1,653	11	107	56
May-----	8,159	8,073	11	1,893	35	2,285	329	1,997	20	113	62
June-----	7,967	7,882	12	1,602	46	2,292	360	1,959	20	122	52
July-----	8,066	8,029	10	1,711	34	2,275	391	1,976	18	123	57
August-----	8,945	8,958	11	2,515	56	2,261	391	1,996	16	125	61
September-----	9,320	9,268	11	3,484	56	2,278	422	1,950	32	125	67
October-----	10,467	10,418	12	3,978	66	2,301	452	1,996	26	118	60
November-----	10,694	10,632	10	4,157	90	2,295	434	2,005	29	114	68
December-----	10,155	10,103	10	4,200	97	2,301	375	1,581	34	92	57
Salaried employees-----	1,541	1,531	582	212	6	352	45	116	2	11	10
Proprietors and firm members-----	297	277	8	174	6	-----	3	19	1	-----	-----
Performing manual labor-----	169	167	5	133	1	-----	1	3	-----	-----	-----
Principal expenses designated below, total-----	\$19,001,954	\$18,800,828	\$1,544,125	\$4,432,781	\$35,269	\$6,934,933	\$648,792	\$2,592,409	\$27,024	\$181,419	\$82,509
Wages-----	\$8,967,767	\$8,903,964	\$13,181	\$2,831,109	\$24,184	\$3,090,978	\$301,322	\$1,493,769	\$9,861	\$106,185	\$35,083
Salaries-----	\$2,696,345	\$2,677,817	\$1,500,675	\$461,704	\$1,771	\$900,533	\$108,310	\$217,695	\$3,865	\$22,621	\$6,912
Supplies and materials-----	\$3,904,938	\$3,884,597	\$1,092	\$661,750	\$4,168	\$1,982,843	\$136,290	\$479,719	\$10,440	\$10,794	\$2,572
Fuel-----	\$458,973	\$450,812	\$3,312	\$97,552	\$331	\$79,562	\$20,096	\$187,545	\$1,050	\$1,727	\$5,173
Purchased electric energy-----	\$1,623,370	\$1,621,503	\$639	\$346,582	-----	\$945,537	\$33,763	\$16,136	\$1,906	\$5,142	\$5,769
Contract work-----	\$256,561	\$172,195	\$15,418	\$4,294	\$2,331	\$35,890	\$779	\$31,299	-----	\$1,000	-----
Cost of buildings, machinery, and equipment erected or installed during year-----	\$759,943	\$759,943	\$2,517	\$204,467	\$1,531	\$31,792	\$40,662	\$219,220	\$17,437	\$5,481	\$680
Buildings-----	\$145,774	\$145,774	-----	\$18,943	\$1,500	-----	\$13,787	\$64,561	\$4,418	-----	\$75
Machinery and equipment, total-----	\$613,169	\$613,169	\$2,517	\$185,524	\$31	\$31,792	\$26,875	\$154,659	\$13,019	\$5,461	\$605
Purchased in new condition-----	\$371,569	\$371,569	\$2,144	\$88,576	-----	\$31,792	\$11,266	\$95,640	\$13,019	-----	\$175
Purchased in used condition-----	\$241,760	\$241,760	\$473	\$96,948	\$31	-----	\$15,609	\$59,019	-----	\$5,461	\$430
Number of man-hours worked by wage earners-----	16,538,669	16,422,333	16,996	5,167,466	95,268	4,355,262	794,295	3,233,643	32,569	249,938	92,435
Average hourly earning of wage earners-----	\$0.54	\$0.54	\$0.76	\$0.51	\$0.23	\$0.71	\$0.38	\$0.46	\$0.30	\$0.44	\$0.42
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	225,694	220,954	632	37,537	80	114,796	3,612	55,732	378	1,082	1,745
Per wage earner-----	24.0	23.9	57.5	11.4	1.6	50.2	10.3	20.2	19.9	5.6	28.6
Prime movers-----	68,654	65,894	623	15,934	80	9,625	2,398	18,205	828	800	907
Electric motors driven by purchased energy-----	155,060	155,060	9	21,603	-----	105,171	1,236	17,529	60	282	838
Horsepower rating of electric motors driven by energy generated by reporting companies-----	3,600	3,600	-----	1,723	-----	274	-----	165	100	375	-----
Fuels consumed:											
Anthracite (tons of 2,000 pounds)-----	604	604	3	-----	-----	-----	10	495	-----	-----	40
Bituminous coal (tons of 2,000 pounds)-----	53,050	53,050	10	31,049	-----	9,706	112	4,518	-----	600	640
Fuel oils (barrels of 42 gallons)-----	36,420	36,420	200	2,790	6	4,062	2,245	1,342	2,108	571	161
Gasoline and kerosene (gallons)-----	2,411,435	2,411,435	13,752	521,892	1,600	153,362	99,565	1,224,671	1,635	-----	23,100
Natural gas (thousands of cubic feet)-----	177,094	171,142	6,017	-----	-----	115,905	9,097	26,964	-----	-----	-----
Electric energy consumed (thousands of kw.-hrs.), total-----	167,513	167,428	16	19,654	-----	124,708	3,055	12,059	42	426	251
Purchased-----	162,268	162,183	16	19,600	-----	123,890	2,993	9,755	41	376	251
Generated by reporting companies-----	5,245	5,245	-----	754	-----	828	162	2,304	1	50	-----

¹ Includes statistics for 1 tripoli mine in Oklahoma.² Represents 1 quarry and 1 crushing plant in the crushed and broken granite industry, 1 quarry and 1 crushing plant in the crushed and broken slate industry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.³ Represents 1 rough-dimension limestone quarries and 2 rough-dimension granite quarries.⁴ Represents 1 rough-dimension limestone quarries and 2 rough-dimension granite quarries.⁵ Companies with operations in more than 1 industry are counted only once in the totals.⁶ Includes amounts received or due for contract services performed during the year.⁷ Includes statistics for central-office employees in the natural-gasoline, placer-gold, natural-abrasives, fluorapatite, and rock-salt industries, and at central offices not classified by industry.⁸ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy and were not asked to report expenditures for contract work, or to report separately the cost of buildings and of machinery and equipment.⁹ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSOURI, BY INDUSTRY: 1939¹—Continued

ITEM	PRODUCING OPERATIONS—Continued							Contract- service opera- tions ¹¹	Nonproducing operations ¹²
	Sand and gravel ⁹		Clay and shale		Barite	Pyrites	All other ¹⁰		
	Common sand and gravel	Glass sand	Fire clay	Common clay and shale					
Number of operating companies ⁴	27	4	40	15	17	3	5	9	25
Number of mines and quarries	30	4	68	17	23	3	8	—	4
Number of oil and gas wells producing on December 31, 1939	—	—	—	—	—	—	—	—	—
Number of preparation plants	30	4	2	3	17	1	4	—	1
Value of all products ⁵	\$1,422,286	\$408,911	\$965,808	\$122,837	\$356,917	\$71,985	\$270,334	\$97,176	—
Number of persons engaged, total	353	115	533	65	365	53	83	58	24
Wage earners (average for the year)	292	87	476	59	328	28	57	45	17
Number receiving pay during pay-roll period ending nearest the 15th of:									
January	196	94	378	25	328	22	41	20	19
February	199	93	383	24	325	22	39	20	19
March	219	90	408	49	335	22	43	31	19
April	299	91	450	54	332	22	57	57	18
May	340	83	465	68	331	31	60	66	20
June	358	82	517	71	319	31	64	53	19
July	335	83	511	74	321	31	69	53	14
August	333	84	510	60	321	31	65	71	14
September	322	85	530	79	328	34	66	59	12
October	343	86	531	83	325	36	61	35	14
November	307	88	522	70	328	36	61	38	14
December	287	87	513	52	342	23	51	36	14
Salaried employees	51	28	21	3	28	—	23	2	6
Proprietors and firm members	10	—	36	3	9	5	3	11	9
Performing manual labor	—	—	19	—	2	1	2	1	1
Principal expenses designated below, total	\$771,232	\$233,353	\$557,063	\$71,874	\$463,576	\$31,877	\$164,654	7 \$71,880	\$129,266
Wages	\$541,776	\$105,087	\$565,894	\$48,583	\$265,282	\$16,224	\$80,296	\$45,402	\$18,401
Salaries	\$107,706	\$42,153	\$29,966	\$5,904	\$68,597	—	\$62,496	\$3,120	\$17,566
Supplies and materials	\$190,925	\$45,856	\$75,486	\$8,349	\$35,874	\$4,977	\$32,792	7 \$15,427	\$4,814
Fuel	\$76,541	\$19,067	\$20,938	\$4,636	\$20,552	\$3,112	\$2,218	7 \$7,911	\$250
Purchased electric energy	\$50,116	\$24,590	\$10,969	\$7,202	\$21,146	—	\$8,852	(7)	\$2,087
Contract work	\$4,188	—	\$53,807	\$1,200	\$4,145	\$7,564	—	(13)	\$86,566
Cost of buildings, machinery, and equipment erected or installed during year	\$78,019	\$5,565	\$45,230	\$1,125	\$51,198	\$575	\$55,350	7 \$1,000	—
Buildings	\$5,498	—	\$9,183	—	\$6,682	—	\$21,547	(13)	—
Machinery and equipment, total	\$72,521	\$5,565	\$36,047	\$1,125	\$44,516	\$575	\$34,003	(13)	—
Purchased in new condition	\$40,596	\$5,565	\$31,527	\$576	\$18,315	\$575	\$31,653	(13)	—
Purchased in used condition	\$31,925	—	\$4,540	\$549	\$26,201	—	\$2,370	(13)	—
Number of man-hours worked by wage earners	886,612	157,119	616,547	106,513	571,424	45,290	99,882	74,929	31,407
Average hourly earning of wage earners	\$0.58	\$0.66	\$0.45	\$0.44	\$0.46	\$0.36	\$0.60	\$0.61	\$0.59
Horsepower rating of prime movers and electric motors driven by purchased energy, total	12,024	2,686	5,122	1,568	3,359	279	500	1,380	1,380
Per wage earner	41.2	30.9	10.6	26.6	10.2	10.0	8.8	30.7	80.0
Prime movers	9,625	408	3,950	1,070	2,726	279	140	1,580	1,580
Electric motors driven by purchased energy	3,399	2,280	1,172	498	633	—	360	—	—
Horsepower rating of electric motors driven by energy generated by reporting companies	963	—	—	—	—	—	—	—	—
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	56	—	—	—	—	—	—	(13)	—
Bituminous coal (tons of 2,000 pounds)	5,351	—	289	321	112	—	58	(13)	—
Fuel oils (barrels of 42 gallons)	9,182	8,203	182	—	2,198	—	1,135	(13)	—
Gasoline and kerosene (gallons)	245,821	10,923	140,040	28,728	139,548	27,563	1,365	(13)	—
Natural gas (thousands of cubic feet)	—	15,439	—	—	—	—	—	(13)	5,952
Electric energy consumed (thousands of kw.-hrs.), total	3,155	1,546	776	463	1,061	—	236	(13)	85
Purchased	1,969	1,546	776	463	1,061	—	236	(13)	85
Generated by reporting companies	1,186	—	—	—	—	—	—	(13)	—

¹ Includes statistics for 1 tripoli mine in Oklahoma.⁴ Companies with operations in more than 1 industry are counted only once in the totals.⁵ Includes amounts received or due for contract services performed during the year.⁷ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy and were not asked to report expenditures for contract work, or to report separately the cost of buildings and of machinery and equipment.⁹ 1 mine and 1 preparation plant in the foundry-sand industry are included under "All other" to avoid disclosure of confidential information.¹⁰ Represents 1 mine and 1 preparation plant in the foundry-sand industry, 1 mine and 1 preparation plant in the native asphalt and bitumens industry, and 4 mines (including 1 mine in Oklahoma) and 2 mills in the tripoli industry.¹¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of the work.¹² Represents operations of 22 companies in the crude-petroleum and natural-gas industry, 1 mine and 1 mill in the zinc-ore industry, 1 iron-ore mine, and 2 fire-clay mines.¹³ Not available.

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSOURI, BY COUNTY: 1939¹

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State ¹	Adair	Andrain	Barton	Bates	Boone	Buchanan	Callaway	Camden	Cape Girardeau	Charlton	Clay
Number of operating companies ²	380	8	6	10	12	11	4	10	3	6	3	9
Number of mines and quarries	456	8	6	9	12	11	4	10	4	6	3	9
Number of preparation plants	157	1	1	2	2	3	3	2	2	4	1	2
Value of all products	\$27,108,062	\$175,995	\$242,651	\$222,211	\$919,794	\$35,165	\$207,606	\$417,572	\$20,989	\$285,255	\$47,756	\$325,000
Number of persons engaged, total	10,484	185	109	115	181	98	83	183	20	153	96	340
Wage earners (average for the year)	9,247	170	104	95	168	77	76	165	17	145	84	328
Salaried employees	948	4	5	6	11	3	5	8	3	7	1	14
Proprietors and firm members	269	11	1	12	12	8	1	10	1	1	2	2
Performing manual labor	162	11	1	6	10	4	1	5	1	1	2	2
Principal expenses designated below, total	\$17,256,703	\$152,934	\$128,229	\$150,637	\$534,153	\$82,906	\$91,299	\$295,159	\$15,465	\$191,975	\$24,799	\$270,870
Wages	\$8,890,773	\$124,026	\$84,915	\$74,959	\$211,726	\$47,665	\$61,129	\$164,805	\$10,322	\$116,152	\$21,859	\$212,618
Salaries	\$2,177,584	\$2,945	\$9,267	\$7,692	\$57,602	\$795	\$9,012	\$36,949	\$2,455	\$17,227	-----	\$25,554
Supplies and materials	\$3,883,605	\$15,295	\$18,300	\$34,907	\$196,029	\$6,225	\$11,844	\$97,121	\$1,525	\$56,722	\$1,321	\$18,517
Fuel	\$537,500	\$5,828	\$2,269	\$1,474	\$4,071	\$2,001	\$5,606	\$18,552	\$1,181	\$10,156	\$1,034	\$6,465
Purchased electric energy	\$1,620,664	\$4,840	\$2,943	\$26,601	\$24,606	\$3,180	\$3,706	\$2,504	-----	\$10,618	\$265	\$9,828
Contract work	\$146,777	-----	\$10,555	\$2,024	\$119	\$2,840	-----	\$6,028	-----	-----	-----	\$90
Cost of buildings, machinery, and equipment erected or installed during year	\$768,326	\$35,301	\$3,938	\$582	\$19,150	\$1,080	\$2,321	\$17,986	\$16,457	\$27,365	-----	\$11,592
Buildings	\$145,774	-----	-----	-----	\$7,120	-----	\$921	\$2,909	\$100	-----	-----	\$4,414
Machinery and equipment	\$620,552	\$35,301	\$3,938	\$582	\$12,030	\$1,080	\$1,500	\$8,289	\$16,357	\$27,365	-----	\$6,978
Horsepower rating of prime movers and electric motors driven by purchased energy, total	\$220,322	742	1,106	5,485	7,160	1,032	1,333	1,405	333	4,707	283	1,741
Prime movers	85,271	325	596	1,196	2,015	641	1,015	1,096	353	1,052	223	1,144
Electric motors driven by purchased energy	165,051	417	508	2,287	5,145	181	318	307	-----	5,655	60	597
Horsepower rating of electric motors driven by energy generated by reporting companies	3,600	363	-----	-----	-----	-----	125	-----	-----	-----	-----	237
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	601	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bituminous coal (tons of 2,000 pounds)	53,040	3,642	10	1,558	2,714	312	880	1,046	-----	1,455	-----	2,050
Fuel oils (barrels of 42 gallons)	36,220	16	110	46	-----	21	-----	1,335	24	-----	5	-----
Gasoline and kerosene (gallons)	2,397,853	1,836	17,616	15,498	-----	11,511	19,407	84,766	6,724	50,796	8,559	5,829
Natural gas (thousands of cubic feet)	163,125	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Electric energy consumed (thousands of kw.-hrs.), total	167,412	281	202	1,613	5,033	89	171	101	-----	2,720	16	514
Purchased	162,167	227	202	1,613	5,033	89	151	101	-----	440	16	254
Generated by reporting companies	5,245	54	-----	-----	-----	-----	20	-----	-----	2,280	-----	80

ITEM	Cole	Cooper	Franklin	Gastonade	Greene	Harrison	Henry	Howard	Iron	Jackson	Jasper	Jefferson
Number of operating companies ²	4	5	4	11	8	5	13	5	3	9	19	5
Number of mines and quarries	4	3	6	16	8	5	12	5	3	10	16	5
Number of preparation plants	4	2	1	1	7	2	3	2	2	7	8	5
Value of all products	\$76,603	\$233,828	\$43,191	\$134,563	\$270,130	\$94,459	\$1,115,989	\$65,684	\$78,611	\$616,006	\$640,614	\$306,254
Number of persons engaged, total	66	69	29	78	127	97	306	48	143	255	427	86
Wage earners (average for the year)	59	62	26	66	156	79	273	42	155	209	361	79
Salaried employees	4	7	1	2	10	1	28	4	7	46	42	3
Proprietors and firm members	3	-----	2	10	1	8	5	2	1	-----	4	4
Performing manual labor	-----	-----	1	8	-----	5	4	-----	-----	-----	1	2
Principal expenses designated below, total	\$46,858	\$190,496	\$34,219	\$77,203	\$196,682	\$69,577	\$629,599	\$32,753	\$125,651	\$462,516	\$675,828	\$181,079
Wages	\$31,373	\$98,114	\$14,278	\$42,564	\$138,155	\$47,186	\$343,111	\$21,071	\$96,666	\$306,396	\$350,480	\$110,470
Salaries	\$6,500	\$16,950	\$3,000	\$3,453	\$9,920	-----	\$78,571	\$3,450	\$23,350	\$128,274	\$65,925	\$4,440
Supplies and materials	\$7,000	\$2,759	\$2,809	\$6,600	\$19,337	\$13,510	\$126,982	\$3,090	\$310	\$100,727	\$182,591	\$50,779
Fuel	\$1,470	\$32,217	\$1,064	\$2,105	\$6,308	\$5,804	\$18,411	\$5,000	\$11,245	\$15,582	\$18,602	\$9,746
Purchased electric energy	\$515	\$10,476	\$1,580	\$1,567	\$17,952	\$5,077	\$78,352	\$112	\$1,380	\$30,547	\$38,550	\$15,644
Contract work	-----	-----	\$11,898	\$19,014	\$5,000	-----	\$272	-----	-----	\$4,000	-----	-----
Cost of buildings, machinery, and equipment erected or installed during year	\$2,600	\$7,515	\$35	\$2,530	\$15,789	\$3,603	\$47,513	\$11,549	-----	\$55,457	\$54,763	\$4,756
Buildings	-----	\$1,941	-----	-----	\$10,853	\$305	\$1,277	-----	-----	\$6,000	\$12,937	\$200
Machinery and equipment	\$2,600	\$5,574	\$35	\$2,530	\$4,936	\$3,300	\$46,236	\$11,549	-----	\$49,457	\$42,826	\$4,556
Horsepower rating of prime movers and electric motors driven by purchased energy, total	819	1,074	300	869	3,248	595	6,439	578	1,221	5,002	3,704	2,010
Prime movers	689	749	175	808	1,403	432	3,182	570	1,021	2,430	2,234	395
Electric motors driven by purchased energy	130	325	125	61	1,845	163	3,257	8	200	2,572	1,470	1,615
Horsepower rating of electric motors driven by energy generated by reporting companies	28	-----	-----	-----	-----	30	-----	-----	188	66	-----	-----
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	-----	-----	-----	-----	-----	-----	-----	-----	40	56	10	-----
Bituminous coal (tons of 2,000 pounds)	52	255	-----	-----	1,028	420	7,925	308	2,453	-----	708	900
Fuel oils (barrels of 42 gallons)	98	44	361	-----	897	5	575	29	820	968	2,023	1,422
Gasoline and kerosene (gallons)	7,145	210,466	1,817	14,935	29,600	40,781	84,065	27,620	19,317	114,298	89,534	10,686
Natural gas (thousands of cubic feet)	-----	-----	-----	-----	-----	-----	-----	-----	4,860	-----	857	15,489
Electric energy consumed (thousands of kw.-hrs.), total	15	521	24	34	922	181	4,422	5	623	1,573	5,060	1,033
Purchased	15	521	24	34	922	154	4,422	5	32	1,561	5,060	1,033
Generated by reporting companies	2	-----	-----	-----	-----	27	-----	-----	791	22	-----	-----

¹ Includes 1 mine in Ottawa County, Oklahoma.² Companies with operations in more than 1 county are counted only once in the totals.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MISSOURI, BY COUNTY: 1939¹—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Johnson	Lafayette	Lincoln	Linn	Macon	Madison	Marion	Montgomery	Newton	Osage	Phelps	Platte	Putnam
Number of operating companies ²	3	20	3	6	8	3	4	10	6	3	4	3	17
Number of mines and quarries	3	25	3	6	6	2	5	11	10	4	4	3	17
Number of preparation plants	1	4	1	—	1	2	—	—	6	—	1	2	—
Value of all products	\$31,116	\$681,430	\$45,111	\$143,711	\$810,024	\$780,966	\$69,651	\$152,541	\$596,372	\$18,225	\$78,740	\$42,653	\$24,860
Number of persons engaged, total	25	640	28	194	249	208	47	85	136	15	26	34	96
Wage earners (average for the year)	24	799	25	196	250	190	43	76	120	10	22	28	72
Salaried employees	1	22	1	3	13	18	1	—	16	—	—	5	—
Proprietors and firm members	—	19	2	5	6	—	3	9	—	—	4	1	24
Performing manual labor	—	14	2	3	—	—	2	—	—	1	—	—	18
Principal expenses designated below, total	\$24,682	\$572,622	\$28,700	\$130,564	\$462,047	\$462,766	\$42,161	\$85,805	\$216,828	\$8,602	\$33,659	\$29,672	\$50,853
Wages	\$19,608	\$470,040	\$24,493	\$102,618	\$257,020	\$267,611	\$26,799	\$61,807	\$125,609	\$5,196	\$16,722	\$21,025	\$42,559
Salaries	\$228	\$27,580	\$1,361	\$2,870	\$25,410	\$57,178	\$586	\$29,476	\$29,476	—	—	\$5,000	—
Supplies and materials	\$2,255	\$46,682	\$1,355	\$19,359	\$119,541	\$115,285	\$9,291	\$15,706	\$48,199	\$2,822	\$6,306	\$1,200	\$6,543
Fuel	\$5,596	\$14,111	\$2,611	\$376	\$11,369	\$19,549	\$2,693	\$3,612	\$4,672	\$584	\$3,087	\$4,182	\$1,119
Purchased electric energy	—	\$14,209	—	\$5,355	\$50,867	\$66,620	—	\$740	\$10,095	—	—	\$255	\$612
Contract work	—	—	—	—	\$16,525	\$2,592	—	\$1,940	\$779	—	\$7,564	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$16,200	\$3,697	\$4,414	\$5,797	—	—	\$1,000	\$25,556	\$56,361	—	\$575	\$1,061	\$675
Buildings	\$275	\$1,542	—	—	—	—	—	\$961	\$21,647	—	—	—	\$400
Machinery and equipment	\$17,925	\$2,555	\$4,414	\$5,797	—	—	\$1,000	\$24,595	\$34,714	—	\$575	\$1,061	\$475
Horsepower rating of prime movers and electric motors driven by purchased energy, total	621	4,173	290	289	3,003	6,370	287	1,264	918	189	229	170	295
Prime movers	568	2,724	290	80	260	488	287	1,239	357	189	229	170	295
Electric motors driven by purchased energy	55	1,449	—	209	2,743	5,884	—	25	561	—	—	—	—
Horsepower rating of electric motors driven by energy generated by reporting companies	—	563	—	—	85	15	—	—	—	—	—	—	—
Fuels consumed:													
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	565	5,305	1	63	1,642	4,057	109	—	15	—	—	1,066	22
Fuel oils (barrels of 42 gallons)	46	82	613	15	208	5,561	—	—	1,131	—	—	—	67
Gasoline and kerosene (gallons)	18,289	71,726	10,173	1,727	90,202	9,214	16,762	27,485	6,500	4,510	27,525	14,545	7,727
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	8,290	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	—	846	—	178	3,744	6,519	—	344	705	—	—	7	34
Purchased	—	852	—	178	3,739	6,497	—	344	543	—	—	7	34
Generated by reporting companies	—	464	—	—	5	22	—	—	162	—	—	—	—

ITEM	Hall	Randolph	Ray	St. Charles	St. Francois	St. Louis	St. Louis City	St. Genevieve	Vernon	Warren	Washington	All other ³
Number of operating companies ²	4	14	27	3	4	26	10	8	10	3	8	39
Number of mines and quarries	4	15	26	3	7	27	11	6	9	3	10	48
Number of preparation plants	2	2	1	3	6	20	8	2	—	—	7	26
Value of all products	\$306,687	\$848,541	\$358,204	\$271,216	\$11,151,848	\$1,026,075	\$567,108	\$575,098	\$101,827	\$39,938	\$590,144	\$1,306,769
Number of persons engaged, total	118	575	437	81	2,548	426	209	194	69	13	220	675
Wage earners (average for the year)	107	339	396	60	2,010	369	81	187	57	8	201	603
Salaried employees	3	19	17	21	558	52	128	6	2	2	15	44
Proprietors and firm members	2	17	24	—	—	5	—	1	10	3	4	28
Performing manual labor	2	12	20	—	—	1	—	—	7	1	1	9
Principal expenses designated below, total	\$306,627	\$570,205	\$307,914	\$144,415	\$6,415,706	\$772,046	\$538,349	\$337,683	\$70,589	\$10,898	\$315,862	\$789,265
Wages	\$122,890	\$299,644	\$240,929	\$61,204	\$2,835,591	\$383,670	\$68,811	\$213,569	\$49,450	\$4,587	\$182,601	\$414,545
Salaries	\$9,406	\$27,470	\$24,062	\$40,649	\$646,909	\$83,589	\$391,948	\$11,169	\$1,425	\$1,000	\$33,957	\$61,466
Supplies and materials	\$67,668	\$186,489	\$25,707	\$18,098	\$1,772,826	\$160,120	\$41,732	\$66,053	\$11,204	\$1,275	\$64,823	\$199,219
Fuel	\$11,142	\$275	\$6,155	\$15,879	\$35,090	\$48,006	\$8,384	\$30,500	\$4,594	\$2,228	\$12,565	\$84,122
Purchased electric energy	\$5,327	\$47,850	\$10,877	\$11,566	\$896,133	\$72,178	\$15,292	\$2,057	\$1,879	\$1,610	\$21,146	\$32,307
Contract work	—	—	\$254	—	\$19,167	\$24,465	\$7,474	\$1,000	—	—	\$770	\$6,206
Cost of buildings, machinery, and equipment erected or installed during year	—	\$21,418	\$10,532	\$2,620	\$51,114	\$159,379	\$15,735	\$3,461	\$2,856	\$2,850	\$22,143	\$48,416
Buildings	—	\$998	\$2,350	—	\$4,433	\$47,863	—	—	\$400	—	\$5,803	\$4,477
Machinery and equipment	—	\$20,420	\$7,972	\$2,620	\$46,621	\$110,506	\$15,735	\$3,461	\$2,456	\$2,850	\$16,340	\$43,941
Horsepower rating of prime movers and electric motors driven by purchased energy, total	4,546	4,189	2,415	1,301	108,428	14,203	2,321	3,580	1,000	514	1,750	8,833
Prime movers	2,699	243	1,212	603	6,506	7,455	1,312	2,350	893	514	1,117	7,284
Electric motors driven by purchased energy	1,896	3,946	1,203	696	99,920	6,748	1,009	1,210	107	—	633	1,549
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	306	—	171	—	—	375	—	—	—	1,069
Fuels consumed:												
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	495	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	1,871	237	310	312	3,196	2,854	865	800	2,905	20	112	1,882
Fuel oils (barrels of 42 gallons)	306	55	128	5,808	2,597	3,066	2,035	571	—	3	905	6,777
Gasoline and kerosene (gallons)	6,181	4,493	33,814	31,420	123,126	251,551	20,748	176,181	—	17,715	91,519	462,232
Natural gas (thousands of cubic feet)	21,824	—	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	798	2,727	397	456	117,923	4,444	235	1,329	38	—	1,061	2,586
Purchased	798	2,727	318	456	117,913	4,444	235	1,279	38	—	1,061	1,407
Generated by reporting companies	—	—	89	—	10	—	—	50	—	—	—	1,181

¹Includes 1 mine in Ottawa County, Oklahoma.²Companies with operations in more than 1 county are counted only once in the totals.³Shannon, Bellingham, Butler, Cass, Christian, Clark, Clinton, Crawford, Dade, Daviess, Dent, Grundy, Holt, Lawrence, Lewis, Livingston, Marion, Moniteau, Monroe, Morgan, New Madrid, Paducah, Pemiscott, Pike, Ripley, St. Clair, Saline, Stoddard, and Wayne.

MONTANA

Montana ranked seventeenth among the States in value of products of mineral industries in 1939, and sixteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 57 percent of that in 1929, and the number of wage earners 65 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 88 percent of that in 1919, and the number of wage earners 62 percent. Between 1939 and 1929 large decreases were reported in the copper-ore and bituminous-coal industries, along with substantial increases in the gold industry. Between 1939 and 1919, decreases occurred in the metallic-ore and bituminous-coal industries, but there was a large increase in the crude-petroleum and natural-gas industry. Total horsepower rating of power equipment at mineral operations in 1939 was slightly greater than in 1929, and 153 percent of the figure for 1919.

The copper-ore industry ranked first in value of products in the State, and Montana ranked third among all States in the

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

copper-ore industry. Other important mineral industries in the State were the gold industry, accounting for 17 percent of the value of products of the State, the crude-petroleum and natural-gas industry, accounting for 15 percent of the value of products, and the bituminous-coal industry, accounting for 9 percent. The State ranked first among all States in value of products in the manganese-ore and vermiculite industries, and accounted for 58 percent of the value of products of the manganese-ore industry. Montana also accounted for 8 percent of the value of products of the gold industry in the United States and 9 percent of the value of products of the silver-ore industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, lignite, lead ore, limestone, granite, sandstone, common sand and gravel, common clay and shale, gypsum, and phosphate rock. Mineral operations (other than oil and gas wells) were located in 39 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN MONTANA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and the natural-gasoline industries)		1929 AND 1919 (Excluding the sand and gravel industry)	
		1929	1929	1929 ¹	1919
Number of mines and quarries—	296	294	175	289	266
Number of oil and gas wells producing at end of year—	2,067			2,067	28
Number of natural-gasoline plants—	1			1	
Value of all products—	\$44,172,876	\$27,107,937	\$65,182,707	\$43,855,280	\$49,861,511
Number of persons engaged, total—	11,758	10,776	15,565	11,665	17,345
Wage earners (average for the year)—	10,114	9,489	14,627	10,061	16,129
Salaried employees—	1,284	1,068	852	1,271	922
Proprietors and firm members—	340	259	66	228	285
Performing manual labor—	213	175	(a)	206	199
Principal expenses designated below, total—	\$27,211,673	\$25,034,454	\$39,806,511	\$27,057,483	\$40,776,517
Wages—	\$14,465,117	\$13,537,556	\$25,807,062	\$14,402,991	\$25,723,908
Salaries—	\$2,966,735	\$2,677,975	\$3,156,527	\$2,973,794	\$2,504,301
Supplies and materials—	\$6,914,528	\$6,544,804	\$8,144,794	\$6,654,659	\$9,452,659
Fuel—	\$504,376	\$566,072	\$494,085	\$493,390	\$1,267,627
Purchased electric energy—	\$1,793,004	\$1,776,496	\$1,929,383	\$1,782,746	\$1,712,301
Contract work—	\$549,913	\$151,749	\$272,966	\$549,513	\$115,521
Cost of machinery and equipment installed during year—	\$2,272,755	\$1,196,416	\$1,333,962	\$2,256,995	(a)
Horsepower rating of power equipment, total—	224,646	204,237	204,009	220,602	145,718
Per wage earner—	22.2	21.6	14.0	21.9	8.9
Prime movers—	54,134	34,650	14,832	52,306	50,598
Electric motors driven by purchased energy—	170,462	169,587	189,237	168,294	93,125
Electric energy consumed (thousands of kw.-hrs.), total—	545,612	542,683	321,090	545,027	(a)
Purchased—	539,205	536,463	317,875	539,040	(a)
Generated by reporting companies—	4,407	4,400	3,215	4,387	(a)

¹Includes 2 mines in the common clay and shale industry and 1 limestone quarry operated in conjunction with a cement plant. Such operations were not included in the census of mineral industries for 1919.

²Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MONTANA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Fuels ¹			Metallic ores ¹		
			Crude petroleum and natural gas	Bituminous coal	Lignite	Gold	Silver ore	
						Lode	Placer	
Number of operating companies ²	474	444	170	58	17	109	29	29
Number of mines and quarries	305	296		59	17	106	30	28
Number of oil and gas wells producing on December 31, 1939	2,067	2,067	2,067					
Number of preparation plants ⁴	70	70		2		42		8
Value of all products ³	\$44,700,558	\$44,172,876	\$6,858,878	\$4,018,519	\$76,230	\$5,562,575	\$1,820,212	\$1,665,709
Number of persons engaged, total	11,961	11,756	938	1,551	76	1,715	288	457
Wage earners (average for the year)	10,291	10,114	830	1,193	50	1,506	224	406
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	10,689	10,549	827	1,376	81	1,321	120	340
February	9,561	9,453	512	1,522	75	1,353	134	349
March	9,780	9,641	570	1,267	59	1,378	156	380
April	9,990	9,834	622	962	23	1,519	240	419
May	10,245	10,082	631	999	11	1,507	255	405
June	9,379	9,185	675	772	9	1,567	267	368
July	9,289	9,083	665	786	14	1,678	265	421
August	9,655	9,444	688	1,005	14	1,691	262	449
September	9,999	9,811	645	1,575	42	1,665	256	480
October	11,040	10,857	706	1,495	93	1,605	258	428
November	11,943	11,724	669	1,502	94	1,459	256	435
December	11,930	11,732	650	1,460	91	1,372	215	394
Salaried employees	1,308	1,284	208	69	8	124	39	32
Proprietors and firm members	362	340	100	69	18	85	20	19
Performing manual labor	226	213	58	59	14	61	15	13
Principal expenses designated below, total	\$27,557,080	\$27,211,673	\$2,122,821	\$2,551,159	\$62,614	\$3,707,934	\$885,333	\$1,006,219
Wages	\$14,790,772	\$14,463,117	\$904,558	\$1,607,505	\$39,372	\$2,079,223	\$410,801	\$574,457
Salaries	\$5,021,011	\$4,986,735	\$296,155	\$185,890	\$4,449	\$279,711	\$77,682	\$84,690
Supplies and materials	\$6,939,321	\$6,814,528	\$354,369	\$592,113	\$14,559	\$977,059	\$233,966	\$232,618
Fuel	\$515,670	\$504,376	\$151,559	\$15,300	\$2,276	\$117,269	\$45,155	\$20,266
Purchased electric energy	\$1,799,138	\$1,739,004	\$15,918	\$147,824	\$1,898	\$192,078	\$86,250	\$62,037
Contract work	\$582,646	\$549,913	\$418,164	\$2,927	\$60	\$62,594	\$31,479	\$32,151
Cost of buildings, machinery, and equipment erected or installed during year	\$2,721,042	\$2,652,630	\$1,120,853	\$129,974	\$1,179	\$433,402	\$445,471	\$78,306
Buildings	\$292,755	\$279,895	\$46,302	\$14,517	\$746	\$150,167	\$20,653	\$53,310
Machinery and equipment, total	\$2,328,289	\$2,272,735	\$1,074,551	\$115,457	\$433	\$273,235	\$424,808	\$44,996
Purchased in new condition	\$1,994,685	\$1,958,707	\$914,154	\$60,178	\$208	\$242,713	\$391,713	\$41,668
Purchased in used condition	\$333,604	\$309,028	\$160,397	\$55,479	\$225	\$30,522	\$33,095	\$3,528
Number of man-hours worked by wage earners	19,861,754	19,560,035	1,175,612	1,698,667	90,844	3,376,625	583,765	884,561
Average hourly earning of wage earners	\$0.74	\$0.74	\$0.77	\$0.95	\$0.43	\$0.62	\$0.70	\$0.66
Horsepower rating of prime movers and electric motors driven by purchased energy, total	229,712	224,646	20,242	23,539	693	24,178	9,481	4,905
Per wage earner	22.3	22.2	32.1	19.7	13.9	16.1	42.3	12.1
Prime movers	56,898	54,184	16,404	2,732	357	12,243	5,128	1,458
Electric motors driven by purchased energy	170,814	170,462	838	20,807	336	11,935	4,353	3,447
Horsepower rating of electric motors driven by energy generated by reporting companies	4,395	3,933	38	988	1	2,389	197	
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	560	680	245		1		8	30
Bituminous coal (tons of 2,000 pounds)	8,240	8,240	98	4,570	256	1,920	7	863
Fuel oils (barrels of 42 gallons)	35,025	34,492	3,518	1,275	32	16,298	7,208	60
Gasoline and kerosene (gallons)	692,056	672,755	121,263	24,672	9,370	242,347	75,495	76,367
Natural gas (thousands of cubic feet)	2,406,489	2,406,489	1,597,767				22,875	
Electric energy consumed (thousands of kw.-hrs.), total	344,494	343,612	751	86,000	96	21,557	9,002	6,087
Purchased	339,698	339,205	744	87,514	95	18,192	8,674	6,087
Generated by reporting companies	4,796	4,407	7	186	1	3,365	328	

¹ 1 natural-gasoline plant and 10 mines and 1 mill in the copper-ore industry are included under "All other" to avoid disclosure of confidential information.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁵ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MONTANA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ³	Nonproducing operations ⁴
	Metallic ores ¹ —Continued		Stones		Common sand and gravel	All other ⁷		
	Lead ore	Manganese ore	Crushed and broken limestone	Other ⁶				
Number of operating companies ²	7	6	7	3	7	11	23	17
Number of mines and quarries	7	15	7	3	7	17		9
Number of oil and gas wells producing on December 31, 1939								
Number of preparation plants	1	3	3		7	4		
Value of all products ³	\$339,564	\$543,870	\$194,568	\$30,692	\$327,646	\$25,726,392	\$527,622	
Number of persons engaged, total	141	220	72	15	73	6,427	143	78
Wage earners (average for the year)	120	197	64	11	53	5,662	117	60
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	107	110	59	8	24	6,476	95	35
February	109	135	46	11	10	5,417	63	46
March	109	131	80	13	14	5,484	89	50
April	106	134	61	10	44	5,694	88	68
May	117	136	63	12	95	5,521	122	71
June	114	132	65	13	116	5,665	127	69
July	113	135	71	13	104	4,938	133	75
August	116	130	63	10	55	4,966	117	74
September	137	153	60	15	69	4,936	118	70
October	132	235	70	10	71	5,756	164	39
November	130	420	70	12	21	6,677	165	54
December	146	513	55	7	9	6,829	146	52
Salaried employees	11	23	5	1	9	755	11	13
Proprietors and firm members	10		3	3	11	2	17	5
Performing manual labor	6			3	4		8	5
Principal expenses designated below, total	\$265,699	\$529,804	\$129,783	\$24,349	\$154,190	\$15,751,778	\$189,651	\$155,756
Wages	\$179,145	\$291,494	\$78,210	\$13,769	\$60,126	\$6,224,855	\$161,850	\$75,805
Salaries	\$22,620	\$36,314	\$7,308	\$2,800	\$12,951	\$1,946,365	\$19,207	\$15,069
Supplies and materials	\$67,797	\$119,471	\$32,529	\$4,600	\$59,869	\$4,215,878	\$35,615	\$21,678
Fuel	\$1,840	\$18,755	\$2,557	\$3,180	\$10,966	\$154,933	\$4,979	\$4,315
Purchased electric energy	\$13,424	\$27,770	\$4,179		\$10,258	\$1,226,368	(*)	\$6,154
Contract work	\$659					\$1,679	(*)	\$32,735
Cost of buildings, machinery, and equipment erected or installed during year	\$3,840	\$20,565	\$16,733	\$200	\$15,740	\$584,367	(*)	\$68,412
Buildings	\$250	\$387	\$1,350			\$108,403	(*)	\$12,858
Machinery and equipment, total	\$3,590	\$20,178	\$15,383	\$200	\$15,740	\$280,964	(*)	\$55,554
Purchased in new condition	\$2,590	\$19,247	\$17,383		\$15,240	\$258,615	(*)	\$30,956
Purchased in used condition	\$1,000	\$931		\$200	\$500	\$23,349	(*)	\$24,598
Number of man-hours worked by wage earners	240,488	367,274	130,192	26,700	96,757	10,988,750	161,615	119,904
Average hourly earning of wage earners	\$0.74	\$0.79	\$0.60	\$0.52	\$0.62	\$0.76	\$0.89	\$0.63
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,597	3,546	1,736	269	4,044	130,416	3,658	1,208
Per wage earner	15.3	18.0	27.1	24.6	76.3	23.0	33.0	20.1
Prime movers	375	1,260	704	269	1,876	8,590	3,611	903
Electric motors driven by purchased energy	1,222	2,286	1,032		2,168	122,056	47	306
Horsepower rating of electric motors driven by energy generated by reporting companies					170	150	10	452
Fuels consumed:								
Anthracite (tons of 2,000 pounds)		376					(*)	
Bituminous coal (tons of 2,000 pounds)	71	610			7	58	(*)	
Fuel oils (barrels of 42 gallons)	89	428	108	241	425	4,812	(*)	533
Gasoline and kerosene (gallons)	5,527	11,514	12,657	10,500	53,825	31,216	(*)	19,300
Natural gas (thousands of cubic feet)		54,187			1,780	921,680	(*)	
Electric energy consumed (thousands of kw.-hrs.), total	2,172	3,017	1,239		586	211,106	(*)	882
Purchased	2,172	3,017	1,239		586	210,606	(*)	493
Generated by reporting companies					20	500	(*)	389

¹ 1 natural-gasoline plant, and 10 mines and 1 mill in the copper-ore industry are included under "All other" to avoid disclosure of confidential information.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁵ Represents 1 rough-dimension limestone quarry, 1 rough-dimension granite quarry, and 1 crushed and broken sandstone quarry.

⁶ Represents 1 natural-gasoline plant, 10 mines and 1 mill in the copper-ore industry, 2 common clay and shale mines, 2 mines and 1 preparation plant in the gypsum industry, 2 phosphate-rock mines, and 1 mine and 1 preparation plant in the vermiculite industry.

⁷ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁸ Represents operations of 8 companies in the crude-petroleum and natural-gas industry, 6 lode-gold mines, 1 manganese-ore mine, 1 lead-ore mine, and 1 major nonferrous-ore mine not classified by industry.

⁹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MONTANA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Beaverhead	Broadwater	Carbon	Cascade	Chouteau
Number of operating companies ¹	275	12	14	8	19	4
Number of mines and quarries	296	12	13	9	19	4
Number of preparation plants	70	2	5	2	6	4
Value of all products	\$27,534,198	\$459,493	\$526,559	\$770,492	\$934,754	\$27,546
Number of persons engaged, total	10,800	139	148	281	455	22
Wage earners (average for the year)	9,454	110	132	257	417	15
Salaried employees	1,076	14	7	18	18	7
Proprietors and firm members	240	15	9	6	18	7
Performing manual labor	175	11	4	3	9	7
Principal expenses designated below, total	\$25,088,852	\$335,451	\$544,416	\$541,426	\$770,457	\$14,601
Wages	\$13,559,761	\$187,765	\$176,106	\$355,047	\$557,901	\$12,821
Salaries	\$2,686,560	\$32,119	\$19,705	\$44,705	\$45,280	
Supplies and materials	\$6,560,159	\$74,558	\$95,714	\$106,374	\$127,906	\$1,580
Fuel	\$372,617	\$7,214	\$15,547	\$2,430	\$2,118	\$790
Purchased electric energy	\$1,777,066	\$20,520	\$29,957	\$32,185	\$58,852	
Contract work	\$151,749	\$31,277	\$9,689	\$587	\$500	
Cost of buildings, machinery, and equipment erected or installed during year	\$1,551,777	\$40,484	\$58,164	\$59,751	\$57,515	\$5,919
Buildings	\$555,595	\$5,276	\$4,927	\$9,749	\$16,662	
Machinery and equipment	\$1,196,184	\$37,208	\$53,237	\$50,002	\$40,851	\$5,919
Horsepower rating of prime movers and electric motors driven by purchased energy, total	204,404	5,402	2,789	5,064	4,424	246
Prime movers	54,780	2,760	1,577	348	259	224
Electric motors driven by purchased energy	169,624	2,642	1,212	4,716	4,165	22
Horsepower rating of electric motors driven by energy generated by reporting companies	2,895	165				
Fuels consumed:						
Anthracite (tons of 2,000 pounds)	415					
Bituminous coal (tons of 2,000 pounds)	8,142	187	245	423	266	
Fuel oils (barrels of 42 gallons)	30,974	69	2,255	100	29	92
Gasoline and kerosene (gallons)	551,490	26,210	26,114	11,025	5,764	2,227
Natural gas (thousands of cubic feet)	1,010,722					
Electric energy consumed (thousands of kw.-hrs.), total	342,861	2,603	2,754	74,919	3,422	
Purchased	339,461	2,293	2,754	74,919	3,422	
Generated by reporting companies	4,400	310				

ITEM	Custer	Deer Lodge	Fergus	Flathead	Gallatin	Granite	Hill
Number of operating companies ¹	3	6	7	3	3	18	4
Number of mines and quarries	4	6	7	3	3	28	4
Number of preparation plants		3	2	1	1	4	
Value of all products	\$21,994	\$381,086	\$275,108	\$195,528	\$48,907	\$1,121,520	\$25,599
Number of persons engaged, total	16	107	91	69	15	268	18
Wage earners (average for the year)	12	94	81	57	11	228	9
Salaried employees		8	4	7	2	33	
Proprietors and firm members	4	5	6	5	2	9	7
Performing manual labor	4	4	5	4	2	8	6
Principal expenses designated below, total	\$17,548	\$225,578	\$144,875	\$156,710	\$42,500	\$594,728	\$16,108
Wages	\$12,865	\$129,639	\$100,550	\$71,924	\$20,737	\$326,986	\$15,801
Salaries		\$15,649	\$7,480	\$19,266	\$2,719	\$76,989	
Supplies and materials	\$4,493	\$48,916	\$28,949	\$55,506	\$10,882	\$118,866	\$1,882
Fuel	\$192	\$7,350	\$5,080	\$10,014	\$1,121	\$17,650	\$475
Purchased electric energy		\$8,938	\$2,978		\$7,041	\$28,877	
Contract work		\$15,046				\$25,400	
Cost of buildings, machinery, and equipment erected or installed during year	\$100	\$17,363	\$16,714	\$19,350		\$327,644	\$2,065
Buildings		\$11,707	\$11,159			\$16,097	\$468
Machinery and equipment	\$100	\$5,656	\$5,575	\$19,350		\$311,547	\$1,597
Horsepower rating of prime movers and electric motors driven by purchased energy, total	92	961	729	341	961	5,894	130
Prime movers	92	325	507	341	450	1,172	130
Electric motors driven by purchased energy		636	222		511	2,722	
Horsepower rating of electric motors driven by energy generated by reporting companies		180	13				
Fuels consumed:							
Anthracite (tons of 2,000 pounds)						376	
Bituminous coal (tons of 2,000 pounds)			152	298		577	
Fuel oils (barrels of 42 gallons)	16	1,526	399		24	1,000	62
Gasoline and kerosene (gallons)	618	10,250	13,669	47,927	4,874	42,596	1,209
Natural gas (thousands of cubic feet)							
Electric energy consumed (thousands of kw.-hrs.), total		976	267		832	2,858	
Purchased		787	262		832	2,858	
Generated by reporting companies		209	5				

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

MONTANA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN MONTANA, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Jefferson	Lewis and Clark	Lincoln	Madison	Missoula	Mustelshell	Park
Number of operating companies ¹	20	50	4	39	4	14	7
Number of mines and quarries	19	29	3	39	4	14	7
Number of preparation plants	5	9	2	12	1	14	5
Value of all products	\$1,546,983	\$1,592,296	\$171,568	\$1,812,154	\$65,319	\$1,593,319	\$524,899
Number of persons engaged, total	244	418	64	485	10	584	151
Wage earners (average for the year)	220	356	59	421	7	538	140
Salaried employees	10	49	3	42	3	30	8
Proprietors and firm members	14	33	2	22	3	16	3
Performing manual labor	10	14	2	19	3	16	3
Principal expenses designated below, total	\$648,539	\$1,050,673	\$108,502	\$1,088,076	\$29,033	\$1,022,311	\$290,549
Wages	\$547,715	\$518,068	\$68,811	\$605,687	\$11,879	\$704,625	\$176,137
Salaries	\$28,376	\$118,474	\$1,600	\$77,918	—	\$48,593	\$23,985
Supplies and materials	\$202,447	\$294,372	\$17,472	\$278,069	\$10,242	\$183,539	\$77,301
Fuel	\$22,205	\$41,035	\$15,189	\$17,892	\$6,112	\$4,901	\$13,026
Purchased electric energy	\$45,149	\$84,965	\$349	\$78,374	\$1,000	\$77,825	—
Contract work	\$2,947	\$4,540	\$1,081	\$28,666	\$1,000	\$2,940	—
Cost of buildings, machinery, and equipment erected or installed during year	\$7,870	\$141,206	\$28,259	\$175,771	\$10,989	\$57,269	\$10,919
Buildings	\$956	\$33,010	\$20,000	\$64,496	—	\$1,054	\$5,604
Machinery and equipment	\$6,914	\$108,196	\$8,259	\$115,275	\$10,989	\$56,215	\$7,215
Horsepower rating of prime movers and electric motors driven by purchased energy, total	3,620	8,092	780	6,355	882	10,351	1,944
Prime movers	1,598	3,356	770	2,123	947	585	1,944
Electric motors driven by purchased energy	2,024	4,736	10	4,232	55	9,766	—
Horsepower rating of electric motors driven by energy generated by reporting companies	32	10	180	294	—	30	735
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	50	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	590	47	—	380	—	2,787	—
Fuel oils (barrels of 42 gallons)	1,796	5,902	4,107	1,052	—	169	2,274
Gasoline and kerosene (gallons)	54,513	102,670	16,499	55,217	25,560	3,264	25,984
Natural gas (thousands of cubic feet)	16,855	4,022	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	4,963	7,341	508	6,409	42	8,976	780
Purchased	4,945	7,332	8	6,034	42	8,969	760
Generated by reporting companies	18	9	500	775	—	7	20

ITEM	Phillips	Powder River	Powell	Roosevelt	Sheridan	Silver Bow	All other ²
Number of operating companies ¹	5	4	12	4	6	9	22
Number of mines and quarries	5	4	11	4	6	16	21
Number of preparation plants	4	—	1	—	—	3	4
Value of all products	\$804,955	\$15,457	\$564,990	\$12,782	\$25,400	\$22,735,004	\$1,933,206
Number of persons engaged, total	238	9	128	17	21	5,306	500
Wage earners (average for the year)	216	3	115	12	14	5,788	246
Salaried employees	19	—	5	1	2	765	31
Proprietors and firm members	3	6	8	4	5	5	25
Performing manual labor	1	5	7	3	5	2	17
Principal expenses designated below, total	\$499,951	\$10,201	\$294,950	\$10,121	\$18,930	\$15,950,701	\$844,907
Wages	\$281,875	\$8,567	\$168,092	\$7,508	\$15,093	\$8,887,206	\$344,430
Salaries	\$44,710	—	\$9,607	\$300	\$1,083	\$1,977,208	\$71,944
Supplies and materials	\$156,211	\$1,439	\$79,437	\$2,115	\$3,894	\$4,255,352	\$368,464
Fuel	\$32,464	\$358	\$10,586	\$140	\$646	\$121,228	\$19,975
Purchased electric energy	\$4,691	\$57	\$23,671	—	—	\$1,255,722	\$55,641
Contract work	—	—	\$3,777	\$80	—	\$964	\$3,455
Cost of buildings, machinery, and equipment erected or installed during year	\$29,465	\$900	\$71,357	\$185	\$700	\$381,932	\$28,008
Buildings	\$2,558	\$900	\$22,579	\$123	\$320	\$104,666	\$4,925
Machinery and equipment	\$26,907	—	\$48,778	\$63	\$380	\$277,266	\$23,083
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,937	66	1,617	32	175	155,376	8,144
Prime movers	2,627	66	477	32	175	8,822	3,076
Electric motors driven by purchased energy	1,310	—	1,140	—	—	124,435	5,068
Horsepower rating of electric motors driven by energy generated by reporting companies	1,326	—	—	1	—	—	952
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	8	—	—	—	1
Bituminous coal (tons of 2,000 pounds)	908	—	80	54	86	65	1,087
Fuel oils (barrels of 42 gallons)	6,975	44	822	—	20	767	2,474
Gasoline and kerosene (gallons)	15,565	869	52,864	410	3,610	10,455	55,029
Natural gas (thousands of cubic feet)	1,780	—	—	—	—	897,170	128,897
Electric energy consumed (thousands of kw.-hrs.), total	2,278	34	2,316	1	—	213,908	4,694
Purchased	251	34	2,316	—	—	213,908	4,685
Generated by reporting companies	2,027	—	—	1	—	—	109

¹ Companies with operations in more than 1 county are counted only once in the totals.² Blaine, Glacier, Judith Basin, McCone, Meagher, Mineral, Pondera, Ravalli, Richland, Rosebud, Sanders, Valley, Wibaux, and Yellowstone.

NEBRASKA

Nebraska ranked forty-fourth among the States in both value of products and number of wage earners employed in mineral industries in 1939.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 59 percent of that in 1929, but the number of wage earners was 154 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 200 percent of that for 1919, and the number of wage earners 126 percent. Total horsepower rating of power

equipment at mineral operations in 1939 was 131 percent of that in 1929, and 129 percent of that in 1919.

The common sand and gravel industry ranked first among the mineral industries in the State in 1939, accounting for 51 percent of the total value of products and 49 percent of the total number of wage earners. Other mineral industries were limestone, common clay and shale, and natural abrasives.

Mineral operations were located in 27 counties in 1939. Principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEBRASKA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1929	1929	1939 ¹	1919
Number of mines and quarries—	64	56	48	18	9
Value of all products—	\$1,522,822	\$1,265,968	\$2,139,767	\$584,928	\$292,766
Number of persons engaged, total—	557	518	351	233	186
Wage earners (average for the year)—	465	429	279	204	162
Salaried employees—	80	55	68	25	19
Proprietors and firm members—	54	54	4	4	5
Performing manual labor—	12	12	(2)	1	1
Principal expenses designated below, total—	\$610,969	\$756,742	\$1,068,213	\$318,729	\$275,511
Wages—	\$357,940	\$355,874	\$461,868	\$165,746	\$166,202
Salaries—	\$65,747	\$75,628	\$196,132	\$55,159	\$27,137
Supplies and materials—	\$174,588	\$169,479	\$179,096	\$55,035	\$60,996
Fuel—	\$68,816	\$87,457	\$55,613	\$24,475	\$11,800
Purchased electric energy—	\$74,644	\$69,880	\$170,514	\$13,516	\$9,576
Contract work—	\$29,254	\$28,224	\$5,490	\$27,000	
Cost of machinery and equipment installed during year—	\$87,671	\$86,486	\$139,542	\$40,000	(2)
Horsepower rating of power equipment, total—	15,059	14,047	10,752	2,377	1,847
Per wage earner—	32.5	32.7	38.5	11.7	11.4
Prime movers—	7,850	7,526	2,280	1,065	1,517
Electric motors driven by purchased energy—	7,229	6,521	8,452	1,512	530
Electric energy consumed (thousands of kw.-hrs.), total—	5,791	3,515	7,668	1,077	(2)
Purchased—	3,790	3,514	7,668	1,076	(2)
Generated by reporting companies—	1	1		1	(2)

¹ Includes 1 limestone quarry operated in conjunction with a cement plant. Such quarries were not included in the census of mineral industries for 1919.

² Not available.

NEBRASKA

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEBRASKA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS				Contract-service and non-producing operations ²
		Total	Limestone and natural abrasives ¹	Common sand and gravel	Common clay and shale	
Number of operating companies ³	40	37	8	24	6	3
Number of mines and quarries	64	64	18	28	8	—
Number of preparation plants	47	47	6	18	3	—
Value of all products ⁴	\$1,351,462	\$1,322,922	\$584,928	\$681,940	\$56,054	\$28,640
Number of persons engaged, total	567	567	228	290	34	10
Wage earners (average for the year)	470	468	204	225	34	7
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	226	201	67	122	12	25
February	212	187	60	108	19	25
March	341	341	157	159	25	—
April	505	504	188	266	50	1
May	574	571	235	281	55	3
June	549	546	211	281	54	3
July	671	668	299	329	40	3
August	607	603	245	316	42	4
September	564	568	282	237	39	6
October	622	616	350	229	37	6
November	491	485	252	208	25	6
December	286	280	97	168	14	8
Salaried employees	61	60	20	35	—	1
Proprietors and firm members	26	24	4	20	—	—
Performing manual labor	12	12	1	11	—	2
Principal expenses designated below, total	\$871,578	\$810,969	\$308,610	\$457,932	\$34,508	\$60,809
Wages	\$365,441	\$357,940	\$165,746	\$176,128	\$22,066	\$7,501
Salaries	\$86,147	\$85,747	\$25,240	\$50,508	—	\$400
Supplies and materials	\$182,765	\$174,588	\$52,055	\$116,444	\$5,109	\$8,177
Fuel	\$88,816	\$88,616	\$24,473	\$62,984	\$1,359	(*)
Purchased electric energy	\$75,616	\$74,644	\$12,816	\$56,564	\$4,764	\$972
Contract work	\$72,793	\$29,234	\$27,000	\$1,224	\$1,010	\$42,559
Cost of buildings, machinery, and equipment erected or installed during year	\$103,003	\$103,003	\$40,250	\$58,488	\$4,267	(*)
Buildings	\$15,332	\$15,332	\$250	\$12,000	\$3,082	(*)
Machinery and equipment, total	\$87,671	\$87,671	\$40,000	\$46,486	\$1,185	(*)
Purchased in new condition	\$76,291	\$76,291	\$40,000	\$36,291	—	(*)
Purchased in used condition	\$11,380	\$11,380	—	\$10,195	\$1,185	(*)
Number of man-hours worked by wage earners	1,040,746	1,029,620	468,436	506,400	54,984	10,926
Average hourly earning of wage earners	\$0.35	\$0.35	\$0.35	\$0.34	\$0.40	\$0.69
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,724	15,059	2,377	11,670	1,012	665
Per wage earner	35.5	32.5	11.7	21.9	25.8	25.0
Prime movers	8,170	7,850	1,065	6,461	304	540
Electric motors driven by purchased energy ⁵	7,554	7,229	1,312	5,209	708	325
Fuels consumed:						
Anthracite (tons of 2,000 pounds)	742	42	—	42	—	(*)
Bituminous coal (tons of 2,000 pounds)	1,141	1,141	272	649	20	(*)
Fuel oils (barrels of 42 gallons)	13,181	13,181	3,051	10,090	80	(*)
Gasoline and kerosene (gallons)	494,989	494,989	90,528	396,720	5,941	(*)
Natural gas (thousands of cubic feet)	1,327	1,327	—	1,323	4	(*)
Electric energy consumed (thousands of kw.-hrs.), total	3,969	3,791	1,077	2,458	276	778
Purchased	3,868	3,790	1,076	2,458	276	778
Generated by reporting companies	1	1	1	—	—	(*)

¹ Represents 12 quarries and 5 crushing plants in the crushed and broken limestone industry, 3 rough-dimension limestone quarries, and 3 mines and 1 preparation plant in the natural-abrasives industry.

² The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. "Nonproducing operations" represents operations of 2 companies in the crude-petroleum and natural-gas industry.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ Includes statistics for central-office employees in the crude-petroleum and natural-gas industry.

⁶ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; nonproducing operations reported no expenditures for fuel or for buildings, machinery, and equipment.

⁷ Excludes statistics for contract-service operations.

⁸ No electric motors were reported driven by energy generated by reporting companies.

⁹ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEBRASKA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Cass	Dodge	Douglas	Jefferson	All other ¹
Number of operating companies ²	37	10	4	4	6	19
Number of mines and quarries	64	15	4	5	6	34
Number of preparation plants	47	10	4	5	5	23
Value of all products	\$1,522,922	\$590,595	\$68,935	\$105,255	\$49,913	\$612,126
Number of persons engaged, total	557	205	25	55	50	224
Wage earners (average for the year)	463	185	19	51	45	155
Salaries employees	80	18	1	21	1	20
Proprietors and firm members	54	2	5	3	4	22
Performing manual labor	12	1	1	—	1	9
Principal expenses designated below, total	\$810,369	\$334,399	\$43,328	\$94,305	\$30,796	\$307,641
Wages	\$557,940	\$151,024	\$18,166	\$25,591	\$19,254	\$135,905
Salaries	\$85,747	\$28,534	\$1,500	\$32,859	\$624	\$21,980
Supplies and materials	\$174,608	\$65,536	\$11,657	\$17,395	\$4,055	\$75,949
Fuel	\$98,816	\$20,966	\$5,851	\$9,682	\$1,682	\$51,925
Purchased electric energy	\$76,644	\$31,259	\$6,154	\$12,260	\$5,175	\$19,798
Contract work	\$29,234	\$27,000	—	—	—	\$2,234
Cost of buildings, machinery, and equipment erected or installed during year	\$108,005	\$45,587	\$4,947	\$6,107	\$1,068	\$45,594
Buildings	\$16,532	—	—	\$3,082	—	\$12,450
Machinery and equipment	\$91,473	\$45,587	\$4,947	\$3,025	\$1,068	\$33,144
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,059	5,758	1,174	1,531	2,254	6,582
Prime movers	7,330	1,264	494	809	1,115	4,547
Electric motors driven by purchased energy ³	7,229	2,474	680	722	1,138	2,215
Fuels consumed:						
Anthracite (tons of 2,000 pounds)	42	—	—	42	—	—
Bituminous coal (tons of 2,000 pounds)	1,141	682	195	12	—	232
Fuel oils (barrels of 42 gallons)	15,191	2,531	8,610	172	80	1,988
Gasoline and kerosene (gallons)	494,989	68,594	25,071	58,859	9,053	335,632
Natural gas (thousands of cubic feet)	1,327	—	1,190	4	—	133
Electric energy consumed (thousands of kw.-hrs.), total	5,791	1,942	561	536	246	806
Purchased	5,790	1,942	561	536	246	805
Generated by reporting companies	1	—	—	—	—	1

¹ Adams, Cedar, Colfax, Cuming, Dawson, Frontier, Hall, Hitchcock, Keith, Lancaster, Madison, Merrick, Morrill, Nemaha, Otoe, Phelps, Platte, Red Willow, Richardson, Searcy, Saunders, Scotts Bluff, and Thayer.

² Companies with operations in more than 1 county are counted only once in the totals.

³ No electric motors were reported driven by energy generated by reporting companies.

NEVADA

Nevada ranked twenty-fifth among the States in value of products of mineral industries in 1939 and twenty-seventh in number of wage earners employed.* (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 94 percent of that in 1929, and the number of wage earners 107 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 139 percent of that in 1919, and the number of wage earners 118 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 139 percent of that in 1929, and 198 percent of that in 1919.

The copper-ore industry ranked first among the mineral industries in the State in 1939, accounting for 45 percent of the value of products and 42 percent of the wage earners employed. (See table 2.) The lode-gold industry ranked second in the State, with 32 percent of the total value of products and 30 percent of the wage earners. The State accounted for

10 percent of the total output of recoverable copper in the copper-ore industry in the United States; for 9 percent of the total value of products reported in the lode-gold industry; for 10 percent of the total value of products in the silver-ore industry; and for 9 percent of the total value of products in the gypsum industry. Nevada ranked first, by value of products, among all States in the tungsten-ore industry in the United States, accounting for 39 percent of the total value of products in the industry. (See reports for these industries.)

Other mineral industries in the State were placer gold; lead ore; zinc ore; antimony ore; mercury; limestone; miscellaneous stone; common sand and gravel; glass sand; foundry sand; kaolin and ball clay; common clay and shale; fuller's earth; bentonite; barite; diatomite; fluorspar; graphite; kyanite, andalusite, and dumortierite; magnesite and brucite; pinitite; natural sodium compounds; and talc and soapstone. Mineral operations were located in 18 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

* Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEVADA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 AND 1929 (All industries)		1939 AND 1919 (Excluding the sand and gravel industry)	
	1939 ¹	1929	1939 ^{1,2}	1919
Number of mines and quarries—	279	107	297	207
Value of all products—	\$25,171,482	\$26,858,881	\$25,029,545	\$18,055,994
Number of persons engaged, total—	5,714	5,281	5,652	4,980
Wage earners (average for the year)—	5,026	4,716	4,975	4,231
Salaried employees—	538	520	528	478
Proprietors and firm members—	150	55	149	151
Performing manual labor—	121	(a)	121	120
Principal expenses designated below, total—	\$15,852,782	\$16,824,017	\$15,773,565	\$15,837,167
Wages—	\$7,754,469	\$8,142,634	\$7,709,445	\$7,401,115
Salaries—	\$1,317,931	\$1,597,697	\$1,307,576	\$1,090,848
Supplies and materials—	\$4,109,806	\$5,274,219	\$4,096,523	\$5,329,511
Fuel—	\$620,229	\$1,071,350	\$611,065	\$1,112,427
Purchased electric energy—	\$1,188,280	\$592,172	\$1,187,680	\$638,889
Contract work—	\$862,117	\$546,545	\$821,266	\$245,429
Cost of machinery and equipment installed during year—	\$1,474,122	\$2,042,221	\$1,467,563	(a)
Horsepower rating of power equipment, total—	102,189	73,395	100,725	80,786
For wage earner—	20.3	15.6	20.2	12.0
Prime movers—	35,401	44,618	34,063	18,542
Electric motors driven by purchased energy—	66,788	29,362	66,663	62,444
Electric energy consumed (thousands of kw.-hrs.), total—	151,649	120,921	151,624	(a)
Purchased—	125,406	45,251	125,592	(a)
Generated by reporting companies—	6,243	77,690	6,242	(a)

¹ Includes 1 mine in the common clay and shale industry. This industry was not included in the census of mineral industries for 1929 or 1919.

² Includes 1 mine in the natural sodium compounds industry and 1 limestone quarry operated in conjunction with a lime plant. Such operations were not included in the census of mineral industries for 1919.

³ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEVADA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS								
		Total	Metallic ores							
			Gold		Silver ore	Copper ore	Lead and antimony ore ¹	Zinc ore	Mercury	Tungsten ore
			Lode	Placer						
Number of operating companies ²	277	265	145	15	42	4	4	4	15	8
Number of mines and quarries	285	279	142	16	47	5	4	5	12	10
Number of preparation plants	90	90	46		6	2			12	7
Value of all products ³	\$25,365,859	\$25,171,482	\$8,135,826	\$995,700	\$1,975,517	\$11,323,056	\$25,723	\$284,356	\$79,842	\$1,306,040
Number of persons engaged, total	5,820	5,714	1,796	146	599	2,516	25	220	54	250
Wage earners (average for the year)	5,099	5,066	1,528	127	515	2,102	17	204	56	233
Number receiving pay during pay-roll period ending nearest the 15th of:										
January	4,744	4,705	1,304	121	506	2,156	10	164	6	213
February	4,772	4,733	1,370	122	523	2,107	17	171	6	206
March	4,726	4,685	1,415	123	541	1,985	20	188	6	220
April	4,846	4,783	1,455	156	532	1,991	20	189	15	222
May	5,018	4,940	1,568	116	496	2,010	25	242	26	228
June	5,087	5,027	1,618	116	516	2,026	15	232	30	229
July	5,133	5,077	1,615	118	496	2,092	15	222	28	235
August	5,315	5,232	1,701	135	524	2,120	18	205	58	220
September	5,395	5,315	1,649	145	509	2,136	14	209	53	240
October	5,572	5,451	1,649	142	513	2,207	17	224	74	261
November	5,543	5,255	1,537	144	496	2,200	20	217	77	265
December	5,258	5,127	1,458	106	528	2,188	17	207	75	253
Salaried employees	559	556	184	15	55	214	2	18	5	17
Proprietors and firm members	162	150	66	6	29		6		13	
Performing manual labor	128	121	68	6	26		5		12	
Principal expenses designated below, total	\$16,111,706	\$15,852,782	\$5,511,293	\$454,580	\$1,534,750	\$6,507,800	\$19,931	\$577,954	\$85,359	\$781,206
Wages	\$7,680,079	\$7,754,469	\$2,456,720	\$190,151	\$787,078	\$3,256,940	\$14,473	\$299,584	\$51,330	\$596,631
Salaries	\$1,538,513	\$1,517,931	\$467,663	\$25,645	\$132,537	\$559,558	\$1,168	\$45,294	\$5,539	\$25,636
Supplies and materials	\$4,186,045	\$4,109,806	\$1,493,846	\$100,055	\$285,599	\$1,608,560	\$5,198	\$111,788	\$9,255	\$280,061
Fuel	\$649,556	\$620,229	\$194,112	\$21,584	\$29,656	\$274,828	\$1,092	\$1,114	\$18,005	\$41,670
Purchased electric energy	\$1,190,255	\$1,188,230	\$560,126	\$67,997	\$85,899	\$491,691		\$122,174	\$458	\$35,684
Contract work	\$865,576	\$862,117	\$516,606	\$50,950	\$16,591	\$256,445			\$754	\$1,537
Cost of buildings, machinery, and equipment erected or installed during year	\$2,350,115	\$2,309,806	\$1,390,560	\$44,236	\$169,420	\$482,880	\$500	\$18,429	\$45,580	\$78,414
Buildings	\$856,727	\$855,084	\$370,231	\$5,209	\$66,342	\$356,491			\$11,916	\$11,750
Machinery and equipment, total	\$1,477,968	\$1,474,122	\$1,020,329	\$41,027	\$101,078	\$126,389	\$500	\$16,429	\$33,664	\$66,664
Purchased in new condition	\$1,252,280	\$1,250,210	\$876,676	\$32,056	\$87,211	\$125,185	\$500	\$16,429	\$25,409	\$40,195
Purchased in used condition	\$225,708	\$223,912	\$143,653	\$8,971	\$13,867	\$1,206			\$8,255	\$26,469
Number of man-hours worked by wage earners	11,345,696	11,161,727	3,805,414	295,184	1,191,695	4,428,886	28,278	484,648	90,875	565,395
Average hourly earning of wage earners	\$0.69	\$0.69	\$0.68	\$0.65	\$0.66	\$0.74	\$0.51	\$0.62	\$0.56	\$0.70
Horsepower rating of prime movers and electric motors driven by purchased energy, total	105,995	102,169	30,718	4,562	7,544	40,084	135	5,066	937	4,773
Per wage earner	20.8	20.5	20.1	34.5	14.6	19.1	7.9	24.8	28.0	20.5
Prime movers	58,951	55,401	14,684	2,496	3,973	2,927	155	25	827	2,477
Electric motors driven by purchased energy	67,054	66,768	16,034	1,866	3,571	37,157		5,041	110	2,296
Horsepower rating of electric motors driven by energy generated by reporting companies	4,478	4,478	2,526	5	210				60	586
Fuels consumed: ⁴										
Anthracite (tons of 2,000 pounds)	349	349	12					72	80	174
Bituminous coal (tons of 2,000 pounds)	26,535	26,535	55	1	368	25,500			571	10
Fuel oils (barrels of 42 gallons)	49,237	48,963	31,822	4,058	2,354	2,698		48	569	5,169
Gasoline and kerosene (gallons)	1,000,136	999,566	442,596	47,166	105,841	105,869	6,276	2,705	15,371	95,326
Electric energy consumed (thousands of kw.-hrs.), total	131,650	131,649	33,169	7,794	5,760	67,589		12,000	29	5,800
Purchased	125,407	125,406	29,177	6,854	5,592	67,505		12,000	25	2,968
Generated by reporting companies	6,243	6,243	3,992	940	168	4			6	832

¹ Represents 5 lead-ore mines and 1 antimony-ore mine.² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Contract-service operators were not asked to report expenditures for contract work.⁵ Excludes statistics for contract-service operations.⁶ No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEVADA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract-service operations ¹⁰	Nonproducing operations ¹¹
	Sand and gravel		Clay and shale ⁸	Barite	Oppeum	All other ⁹		
	Glass sand	Other ⁷						
Number of operating companies ²	3	5	6	4	4	14	10	6
Number of mines and quarries	7	5	6	4	4	14		6
Number of preparation plants	7	5			1	4		
Value of all products ³	\$83,059	\$56,878	\$75,626	\$61,298	\$403,084	\$354,887	\$392,378	
Number of persons engaged, total	55	27	23	20	75	126	82	24
Wage earners (average for the year)	31	20	19	16	71	108	62	11
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	31	10	18	8	52	104	52	7
February	19	10	16	8	64	92	23	6
March	24	9	16	8	66	98	23	6
April	29	25	17	8	59	85	57	6
May	29	21	17	13	71	78	68	10
June	29	11	17	23	70	95	48	12
July	26	11	17	27	75	98	49	7
August	18	11	19	31	94	112	74	9
September	24	31	24	27	79	175	67	11
October	55	34	24	18	80	153	108	13
November	47	34	18	9	74	97	67	21
December	41	32	18	9	74	121	85	26
Salaried employees	5	7	5	5	4	12	10	11
Proprietors and firm members	1		2	1		6	10	2
Performing manual labor			1			5	5	2
Principal expenses designated below, total	\$45,419	\$35,800	\$45,168	\$25,415	\$210,535	\$216,999	* \$211,080	\$47,804
Wages	\$24,962	\$20,064	\$19,411	\$12,776	\$96,415	\$122,955	\$106,480	\$19,150
Salaries	\$7,475	\$2,980	\$10,626	\$2,999	\$10,250	\$24,967	\$9,997	\$10,485
Supplies and materials	\$6,507	\$6,976	\$8,667	\$5,325	\$39,161	\$45,248	\$64,286	\$12,953
Fuel	\$5,264	\$3,880	\$5,656	\$1,268	\$10,875	\$18,229	\$25,427	\$980
Purchased electric energy	\$550				\$431	\$5,220	\$2,010	\$15
Contract work	\$861		\$823	\$6,048	\$205	\$11,499	(12)	\$3,421
Cost of buildings, machinery, and equipment erected or installed during year	\$2,656	\$4,294	\$1,113		\$37,698	\$54,026	\$15,400	\$4,909
Buildings	\$591				\$4,046	\$9,268	(12)	\$1,045
Machinery and equipment, total	\$2,265	\$4,294	\$1,113		\$33,652	\$24,758	(12)	\$3,864
Purchased in new condition	\$765	\$4,294	\$1,113		\$20,054	\$18,525	(12)	\$2,070
Purchased in used condition	\$1,500				\$13,598	\$6,433	(12)	\$1,794
Number of man-hours worked by wage earners	40,559	31,008	26,259	21,875	146,090	207,921	156,842	25,519
Average hourly earning of wage earners	\$0.62	\$0.65	\$0.74	\$0.58	\$0.68	\$0.59	\$0.68	\$0.76
Horsepower rating of prime movers and electric motors driven by purchased energy, total	865	578	1,062	223	3,197	2,605	3,127	689
Per wage earner	27.9	28.9	59.0	15.9	45.0	24.1	50.4	62.6
Prime movers	780	578	1,062	223	3,164	2,070	3,080	490
Electric motors driven by purchased energy	105				33	535	67	199
Horsepower rating of electric motors driven by energy generated by reporting companies	38		406		601	47		
Fuels consumed: ⁴								
Anthracite (tons of 2,000 pounds)						11	(12)	
Bituminous coal (tons of 2,000 pounds)						30	(12)	
Fuel oils (barrels of 42 gallons)	9	70	1,073		815	320	(12)	254
Gasoline and kerosene (gallons)	28,284	20,950	7,590	6,580	50,282	66,624	(12)	272
Electric energy consumed (thousands of kw.-hrs.), total	15		43		437	213	(12)	1
Purchased	14				14	179	(12)	
Generated by reporting companies	1		43		423	34	(12)	

²Companies with operations in more than 1 industry are counted only once in the totals.³Includes amounts received or due for contract services performed during the year.⁴Contract-service operators were not asked to report expenditures for contract work.⁵No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.⁶Represents 2 mines and 2 preparation plants in the common sand and gravel industry and 3 mines and 3 preparation plants in the foundry-sand industry.⁷Represents 2 mines in the kaolin and ball-clay industry, 1 common clay and shale mine, 2 fuller's-earth mines, and 1 bentonite mine.⁸Represents 1 quarry and 1 crushing plant in the crushed and broken limestone industry, 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry, 2 mines and 1 mill in the diatomite industry, 2 mines and 1 mill in the fluorspar industry, 1 graphite mine, 2 mines in the kyanite, andalusite, and emeralinite industry, 1 mine in the magnesite and brucite industry, 1 mine in the natural sodium compounds industry, 1 pinita mine, and 2 mines in the talc and soapstone industry.⁹The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.¹⁰Represents 1 lode gold mine, 2 mercury mines, 2 molybdenum-ore mines, and 1 tungsten-ore mine.¹¹Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEVADA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Churchill	Clark	Elko	Esmeralda	Eureka	Humboldt	Lander
Number of operating companies ¹	265	6	23	14	21	13	14	22
Number of mines and quarries	279	6	27	14	19	16	13	23
Number of preparation plants	90	2	17	7	7	1	10	4
Value of all products	\$25,171,482	\$148,900	\$1,516,571	\$2,104,505	\$2,397,954	\$320,804	\$2,069,229	\$396,980
Number of persons engaged, total	5,714	52	401	420	554	95	224	146
Wage earners (average for the year)	5,026	58	352	368	464	79	197	99
Salaried employees	538	4	35	47	63	9	15	54
Proprietors and firm members	150	10	14	5	7	5	12	13
Performing manual labor	121	10	3	5	7	5	7	13
Principal expenses designated below, total	\$15,822,782	\$81,892	\$900,271	\$1,195,255	\$1,552,406	\$215,088	\$1,296,112	\$285,215
Wages	\$7,764,489	\$57,004	\$487,502	\$523,297	\$745,566	\$131,268	\$356,266	\$136,410
Salaries	\$1,517,931	\$6,500	\$88,399	\$103,140	\$170,506	\$17,175	\$35,515	\$58,453
Supplies and materials	\$4,109,806	\$23,547	\$241,743	\$223,996	\$398,762	\$55,640	\$427,019	\$48,112
Fuel	\$620,229	\$3,914	\$43,609	\$25,279	\$18,561	\$11,737	\$44,352	\$15,021
Purchased electric energy	\$1,166,230	\$1,327	\$52,427	\$55,557	\$153,971	\$1,590	\$85,425	\$3,002
Contract work	\$662,117		\$6,561	\$254,016	\$85,040		\$367,555	\$24,217
Cost of buildings, machinery, and equipment erected or installed during year	\$2,309,806	\$5,981	\$259,744	\$159,564	\$155,338	\$752	\$323,082	\$6,688
Buildings	\$635,684	\$622	\$51,644	\$58,517	\$59,316	\$176	\$22,660	\$169
Machinery and equipment	\$1,474,122	\$5,139	\$168,100	\$100,847	\$114,022	\$576	\$300,422	\$6,420
Horsepower rating of prime movers and electric motors driven by purchased energy, total	102,169	479	5,370	5,169	6,774	942	4,441	2,642
Prime movers	35,452	464	3,676	2,349	1,656	942	1,896	2,567
Electric motors driven by purchased energy	66,768	15	1,694	2,820	5,138		2,545	75
Horsepower rating of electric motors driven by energy generated by reporting companies	4,478	75	679	755	540		105	3
Fuels consumed: ²								
Anthracite (tons of 2,000 pounds)	349						90	
Bituminous coal (tons of 2,000 pounds)	26,535	32	11	717			505	24
Fuel oils (barrels of 42 gallons)	48,989	135	5,519	3,545	2,722	2,536	6,030	1,178
Gasoline and kerosene (gallons)	999,596	17,627	156,548	32,668	45,285	20,528	70,225	61,845
Electric energy consumed (thousands of kw.-hrs.), total	151,649	108	4,467	6,775	11,678	64	7,741	1,100
Purchased	125,406	55	3,124	5,474	10,678	64	7,661	156
Generated by reporting companies	6,243	55	1,343	1,301	1,000		80	944

ITEM	Lincoln	Lyon and Ormsby	Mineral	Nye	Pershing	Storey	Washoe	White Pine
Number of operating companies ¹	10	17	20	40	24	16	6	24
Number of mines and quarries	9	14	19	42	26	17	6	28
Number of preparation plants	1	7	3	9	8	8	1	5
Value of all products	\$649,048	\$596,406	\$226,016	\$2,036,655	\$1,374,355	\$1,257,514	\$103,237	\$9,985,722
Number of persons engaged, total	351	150	82	484	260	331	47	2,139
Wage earners (average for the year)	351	115	65	416	238	309	51	1,956
Salaried employees	28	24	9	49	20	20	12	169
Proprietors and firm members	2	11	10	19	22	2	4	14
Performing manual labor	2	8	9	17	21	1	1	12
Principal expenses designated below, total	\$686,148	\$561,001	\$164,319	\$1,230,329	\$793,218	\$932,470	\$125,644	\$5,835,434
Wages	\$437,399	\$166,799	\$91,948	\$642,508	\$371,932	\$514,149	\$44,920	\$3,047,768
Salaries	\$75,848	\$41,864	\$20,559	\$130,516	\$50,762	\$35,329	\$42,710	\$461,076
Supplies and materials	\$195,552	\$85,840	\$59,597	\$237,069	\$314,885	\$239,761	\$19,554	\$1,563,869
Fuel	\$10,824	\$19,445	\$7,610	\$59,300	\$28,440	\$20,821	\$14,617	\$297,041
Purchased electric energy	\$190,725	\$56,655	\$4,352	\$118,656	\$40,044	\$32,564	\$3,220	\$440,955
Contract work		\$10,480	\$283	\$42,685	\$7,155	\$40,246	\$823	\$23,096
Cost of buildings, machinery, and equipment erected or installed during year	\$50,978	\$23,124	\$42,140	\$256,536	\$549,613	\$150,375	\$6,720	\$540,192
Buildings	\$6,510	\$2,591	\$11,319	\$102,910	\$164,057	\$8,265	\$1,294	\$565,454
Machinery and equipment	\$41,566	\$22,533	\$30,821	\$156,626	\$185,776	\$142,110	\$5,426	\$176,738
Horsepower rating of prime movers and electric motors driven by purchased energy, total	8,117	3,348	674	10,750	6,172	4,368	1,573	39,160
Prime movers	2,070	1,771	734	5,055	5,062	1,463	1,058	4,698
Electric motors driven by purchased energy	6,047	1,577	140	5,715	3,110	2,905	555	14,462
Horsepower rating of electric motors driven by energy generated by reporting companies		135		1,135	876		67	508
Fuels consumed: ²								
Anthracite (tons of 2,000 pounds)	72							174
Bituminous coal (tons of 2,000 pounds)	343				11	2		24,804
Fuel oils (barrels of 42 gallons)	665	2,456	675	8,737	3,815	5,116	2,515	5,021
Gasoline and kerosene (gallons)	30,975	62,924	30,661	126,137	78,411	55,063	39,546	173,965
Electric energy consumed (thousands of kw.-hrs.), total	15,219	2,853	186	9,528	5,624	5,281	205	62,690
Purchased	15,219	2,779	186	9,112	5,215	5,281	179	62,213
Generated by reporting companies		85		416	408		26	607

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

² No natural gas was reported consumed.

NEW HAMPSHIRE

New Hampshire ranked forty-seventh among the States in value of products of mineral industries in 1939, and forty-sixth in number of wage earners employed. (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 41 percent of that in 1929, and the number of wage earners 46 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 30 percent of that in 1919, and the number of wage earners 30 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 120 percent of that in 1929, and 84 percent of that in 1919.

The granite industry (including both rough-dimension and crushed and broken granite) ranked first in the State, accounting for about one-third of the total value of products and two-fifths of the number of wage earners. Feldspar operations in the State accounted for 16 percent of the total value of products of the feldspar industry in the United States. (See report for this industry.) Other mineral industries in the State were common sand and gravel, common clay and shale, diatomite, and natural abrasives. Mineral operations were located in eight counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEW HAMPSHIRE: 1939, 1929, AND 1919 ¹

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1939	1929	1939	1919
Number of mines and quarries	26	25	39	19	35
Value of all products	\$652,656	\$641,227	\$1,562,327	\$468,020	\$1,598,195
Number of persons engaged, total	516	309	643	247	757
Wage earners (average for the year)	266	259	569	205	682
Salaried employees	41	41	55	35	46
Proprietors and firm members	9	9	19	7	30
Performing manual labor	5	5	(*)	5	17
Principal expenses designated below, total	\$479,403	\$471,715	\$1,176,817	\$340,289	\$1,166,517
Wages	\$286,460	\$280,114	\$772,709	\$197,805	\$625,547
Salaries	\$67,029	\$67,029	\$110,748	\$70,667	\$36,354
Supplies and materials	\$62,858	\$62,828	\$180,006	\$54,608	\$144,946
Fuel	\$44,045	\$45,053	\$46,398	\$24,509	\$41,567
Purchased electric energy	\$16,776	\$16,776	\$30,685	\$15,275	\$23,415
Contract work	\$255	\$255	\$6,239	\$255	\$54,520
Cost of machinery and equipment installed during year	\$75,462	\$75,462	\$47,402	\$6,402	(*)
Horsepower rating of power equipment, total	6,650	6,532	5,455	5,644	4,336
Per wage earner	25.0	25.2	9.6	17.8	6.4
Prime movers	4,967	4,849	2,259	2,541	2,075
Electric motors driven by purchased energy	1,683	1,683	2,198	1,105	1,063
Electric energy consumed (thousands of kw.-hrs.), total	848	848	2,956	608	(*)
Purchased	848	848	2,694	608	(*)
Generated by reporting companies			162		(*)

¹ Statistics for 1939 include 1 diatomite mine in Massachusetts.

² Not available.

MINERAL INDUSTRIES

TABLE 2.--PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW HAMPSHIRE, BY INDUSTRY: 1939 ¹

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total ¹	Rough-dimension granite	Common sand and gravel	Common clay and shale	Feldspar	Crushed and broken granite, diatomite, and natural abrasives ²
Number of operating companies ³	24	8	4	3	4	6
Number of mines and quarries	26	8	5	3	5	5
Number of preparation plants	13	2	5			6
Value of all products ⁴	\$652,556	\$158,153	\$175,207	\$11,429	\$159,029	\$150,886
Number of persons engaged, total	316	97	62	7	81	69
Wage earners (average for the year)	266	88	54	7	68	49
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	209	77	27		54	51
February	165	48	33		56	28
March	185	52	35		69	29
April	255	92	49	1	44	69
May	310	94	69	13	66	68
June	325	102	73	15	69	68
July	328	107	71	13	68	69
August	361	120	70	13	81	67
September	300	96	68	14	77	45
October	310	110	69	16	75	40
November	243	88	55		75	25
December	201	71	36		71	23
Salaried employees	41	4	6		12	19
Proprietors and firm members	9	5	2		1	1
Performing manual labor	5	5				
Principal expenses designated below, total	\$479,403	\$109,508	\$151,426	\$7,688	\$129,225	\$101,755
Wages	\$266,460	\$89,064	\$92,309		\$63,667	\$45,074
Salaries	\$87,028	\$5,903	\$16,172	\$6,346	\$46,944	\$20,010
Supplies and materials	\$62,858	\$5,239	\$27,920	\$350	\$13,087	\$18,282
Fuel	\$44,045	\$8,545	\$19,524	\$1,012	\$2,897	\$12,289
Purchased electric energy	\$18,776	\$4,525	\$5,501		\$2,630	\$6,120
Contract work	\$235	\$235				
Cost of buildings, machinery, and equipment erected or installed during year	\$75,862	\$350	\$69,860		\$5,652	\$1,000
Buildings	\$2,400	\$100	\$1,800			\$500
Machinery and equipment, total	\$73,462	\$250	\$67,060		\$5,652	\$500
Purchased in new condition	\$72,312	\$150	\$66,510		\$5,652	
Purchased in used condition	\$1,150	\$100	\$550			\$500
Number of man-hours worked by wage earners	535,021	168,803	115,704	11,728	136,947	99,839
Average hourly earning of wage earners	\$0.50	\$0.53	\$0.54	\$0.54	\$0.46	\$0.45
Horsepower rating of prime movers and electric motors driven by purchased energy, total	6,650	1,648	2,688	118	511	1,485
Per wage earner	25.0	18.7	53.5	16.9	7.5	30.3
Prime movers	4,967	1,300	2,308	118	277	964
Electric motors driven by purchased energy ⁵	1,683	348	580		234	521
Fuels consumed: ⁶						
Bituminous coal (tons of 2,000 pounds)	1,474	856	182	95	1	360
Fuel oils (barrels of 42 gallons)	707	621				86
Gasoline and kerosene (gallons)	198,160	2,302	121,774	1,875	18,835	50,374
Electric energy consumed (thousands of kw.-hrs.) ⁷	848	215	240		136	287

¹ Includes 1 diatomite mine in Massachusetts.² Represents 4 quarries and 4 crushing plants in the crushed and broken granite industry, 1 mine located in Massachusetts and 1 mill in the diatomite industry, and 1 preparation plant in the natural abrasives industry.³ Companies with operations in more than 1 industry are counted only once in the totals.⁴ Includes amounts received or due for contract services performed during the year.⁵ No electric motors were reported driven by energy generated by reporting companies.⁶ No anthracite or natural gas was reported consumed.⁷ Represents purchased energy; no electric energy was reported generated by reporting companies.

NEW HAMPSHIRE

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW HAMPSHIRE, BY COUNTY: 1939 ¹

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported.)

ITEM	State ¹	Cheshire	Grafton	Hillsboro	Merrimack	Rockingham ¹	Strafford	Carroll and Sullivan
Number of operating companies ²	24	3	4	6	3	9	5	5
Number of mines and quarries	26	4	4	6	3	8	5	5
Number of preparation plants	13	2	4	1	2	2	1	1
Value of all products	\$652,656	\$109,761	\$156,417	\$96,050	\$153,724	\$41,647	\$44,134	\$68,922
Number of persons engaged, total	316	53	57	50	74	32	17	33
Wage earners (average for the year)	286	41	49	39	70	21	17	29
Salaried employees	41	11	7	5	4	11		5
Proprietors and firm members	9	1	1	6				1
Performing manual labor	5			5				
Principal expenses designated below, total	\$479,408	\$100,054	\$98,399	\$69,531	\$111,592	\$39,972	\$32,646	\$37,312
Wages	\$266,460	\$42,027	\$40,401	\$36,656	\$77,563	\$21,529	\$20,656	\$25,628
Salaries	\$67,029	\$43,095	\$9,263	\$5,795	\$12,749	\$9,852		\$6,275
Supplies and materials	\$62,658	\$10,916	\$18,394	\$13,114	\$5,960	\$2,080	\$8,800	\$3,594
Fuel	\$44,045	\$848	\$18,254	\$7,113	\$10,550	\$2,375	\$3,190	\$1,715
Purchased electric energy	\$18,776	\$5,168	\$2,077	\$4,618	\$4,770	\$4,043		\$100
Contract work	\$235			\$235				
Cost of buildings, machinery, and equipment erected or installed during year	\$75,982	\$2,159	\$6,943	\$11,719	\$45,700	\$500	\$6,941	
Buildings	\$2,400		\$300	\$100	\$1,500	\$500		
Machinery and equipment	\$73,462	\$2,159	\$6,543	\$11,619	\$44,200		\$6,941	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	6,650	458	1,251	1,948	1,143	569	829	442
Prime movers	4,967	149	1,065	1,475	813	244	829	582
Electric motors driven by purchased energy ³	1,683	309	196	473	330	325		50
Fuels consumed: ⁴								
Bituminous coal (tons of 2,000 pounds)	1,474	51	200	548	329	205		150
Fuel oils (barrels of 42 gallons)	707		50	50	571	56		
Gasoline and kerosene (gallons)	195,180	2,962	65,050	29,307	52,000	3,000	36,167	3,684
Electric energy consumed (thousands of kw.-hrs.) ⁵	843	156	63	189	244	194		2

¹ Includes 1 mine in Norfolk County, Massachusetts.² Companies with operations in more than 1 county are counted only once in the totals.³ No electric motors were reported driven by energy generated by reporting companies.⁴ No anthracite or natural gas was reported consumed.⁵ Represents purchased energy; no electric energy was reported generated by reporting companies.

NEW JERSEY

New Jersey ranked twenty-ninth among the States in value of products of mineral industries in 1939, and thirty-second in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 88 percent of that in 1929, and the number of wage earners 89 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 109 percent of that in 1919, and the number of wage earners 58 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 128 percent of that in 1929, and 183 percent of that in 1919.

The zinc-ore industry ranked first in value of products and number of wage earners employed in the mineral industries in the State in 1939. The iron-ore industry ranked next, with 21 percent of the total value of products and 18 percent of the wage earners employed. (See table 2.) New Jersey ranked first

¹Statements in this text refer to producing operations only; for information concerning contract-service and nonproducing operations see table 2.

among all States, by value of products, in the basalt (crushed and broken) and foundry-sand industries in the United States, accounting for 26 percent of the total value of products of the crushed and broken basalt industry and 24 percent of the value of products of the foundry-sand industry. All greensand operations in the United States were located in two counties in New Jersey. The State ranked second among all States in value of products in the peat industry, and third in the zinc-ore industry. The State accounted for 10 percent of the total value of products of the fire-clay industry in the United States. (See reports for these industries.)

Other mineral industries in the State were limestone, granite, sandstone, marble, miscellaneous stone, common sand and gravel, glass sand, kaolin and ball clay, and common clay and shale. Mineral operations were located in 20 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEW JERSEY: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and greensand industries)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1939:	1929	1939: *	1919
Number of mines and quarries	135	120	138	61	102
Value of all products	\$14,123,800 ²	\$15,636,455	\$15,789,610	\$10,154,015	\$9,306,902
Number of persons engaged, total	4,010	5,855	4,222	5,121	5,029
Wage earners (average for the year)	3,369	5,252	5,850	2,842	4,579
Salaried employees	809	593	566	463	413
Proprietors and firm members	32	30	26	16	40
Performing manual labor	16	15	(3)	7	20
Principal expenses designated below, total	\$8,947,208	\$9,662,708	\$10,128,201	\$6,777,402	\$9,061,836
Wages	\$4,514,254	\$4,187,615	\$5,400,075	\$5,468,759	\$5,592,861
Salaries	\$1,611,684	\$1,574,011	\$1,477,322	\$1,166,862	\$726,560
Supplies and materials	\$1,719,612	\$1,668,920	\$1,959,779	\$1,337,466	\$2,194,339
Fuel	\$570,596	\$532,243	\$585,428	\$563,011	\$621,594
Purchased electric energy	\$636,804	\$626,565	\$562,114	\$598,740	\$66,354
Contract work	\$95,077	\$75,356	\$143,483	\$22,564	\$57,948
Cost of machinery and equipment installed during year	\$477,830	\$476,650	\$822,577	\$204,018	(3)
Horsepower rating of power equipment, total	90,874	87,822	68,584	62,064	35,601
Per wage earner	26.9	27.2	18.9	23.5	7.4
Prime movers	45,960	45,673	58,153	29,825	28,647
Electric motors driven by purchased energy	44,714	44,149	50,446	32,239	7,054
Electric energy consumed (thousands of kw.-hrs.), total	53,906	52,965	46,842	59,990	(3)
Purchased	42,946	42,465	25,167	29,292	(3)
Generated by reporting companies	10,960	10,500	25,675	10,698	(3)

¹Includes 2 mines and 2 preparation plants in the peat industry. This industry was not included in the census of mineral industries for 1929 or 1919.

²Includes 4 limestone quarries, with products valued at \$304,695, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

³Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW JERSEY, BY INDUSTRY: 1936

(For producing operations only):¹

ITEM	Total	Iron ore	STONE				SAND AND GRAVEL				CLAY AND SHALE ⁴			Green-sand	All other ⁵
			Crushed and broken				Rough dimension ³	Common sand and gravel	Glass sand	Foundry sand	Fire clay	Common clay and shale			
			Lime-stone	Basalt	Granite and miscellaneous										
Number of operating companies ⁶	117	3	6	17	3	4	44	4	8	15	10	4	4	4	
Number of mines and quarries	135	4	6	17	3	4	45	3	14	19	12	3	5	5	
Number of preparation plants	108	4	3	17	3	1	46	4	14	6	2	4	4	4	
Value of all products ⁷	\$14,123,800	\$2,931,953	\$556,339	\$2,481,181	\$54,919	\$40,041	\$2,296,075	\$478,956	\$904,739	\$735,619	\$202,115	\$285,230	\$5,226,755		
Number of persons engaged, total	4,010	660	124	533	28	19	507	98	227	342	57	96	1,309		
Wage earners (average for the year)	3,369	609	100	445	24	15	589	89	128	261	56	79	1,089		
Number receiving pay during payroll period ending nearest the 15th of:															
January	2,859	561	31	234	2	12	300	94	149	265	47	70	1,108		
February	2,926	562	100	246	3	14	305	95	151	250	39	68	1,099		
March	3,030	559	108	255	17	18	337	99	158	249	42	78	1,095		
April	3,337	559	104	458	22	15	402	99	184	299	59	86	1,080		
May	3,471	562	109	535	30	14	480	95	192	277	62	85	1,065		
June	3,466	552	113	522	31	15	455	96	190	282	62	85	1,066		
July	3,496	546	110	562	30	13	418	96	197	294	63	80	1,067		
August	3,509	560	108	536	32	17	426	95	202	296	66	85	1,094		
September	3,565	653	104	514	32	13	428	91	207	293	66	76	1,066		
October	3,618	666	107	532	34	17	408	98	219	297	62	76	1,080		
November	3,570	704	104	480	31	15	396	96	233	309	54	80	1,069		
December	3,583	602	108	459	28	16	382	96	231	291	50	76	1,064		
Salaried employees	609	51	23	83	4	2	108	9	28	57	1	15	218		
Proprietors and firm members	32	1	5	1	2	10	10	4	6	4	1	2	2		
Performing manual labor	16	1	1	1	2	3	3	6	2	2	1	1	1		
Principal expenses designated below, total	\$96,947,209	\$1,582,525	\$265,262	\$1,475,551	\$48,096	\$26,012	\$1,246,542	\$268,904	\$528,594	\$432,181	\$126,077	\$152,644	\$2,762,436		
Wages	\$4,314,234	\$965,497	\$127,291	\$942,947	\$27,658	\$15,265	\$456,579	\$117,276	\$192,627	\$242,251	\$55,215	\$67,408	\$1,500,422		
Salaries	\$1,611,684	\$126,154	\$48,208	\$197,723	\$4,682	\$2,900	\$278,194	\$24,469	\$136,879	\$99,969	\$3,680	\$29,615	\$64,201		
Supplies and materials	\$1,719,512	\$391,468	\$82,672	\$382,775	\$4,682	\$4,770	\$239,575	\$54,938	\$71,163	\$46,024	\$18,550	\$24,042	\$411,035		
Fuel	\$570,398	\$14,876	\$14,456	\$120,378	\$3,554	\$1,586	\$127,578	\$28,587	\$36,586	\$24,179	\$16,632	\$21,523	\$162,456		
Purchased electric energy	\$636,304	\$184,432	\$12,635	\$115,876	\$5,384	\$1,472	\$125,482	\$45,534	\$57,997	\$13,581	\$6,991	\$1,058	\$64,302		
Contract work	\$95,077	\$98	---	\$15,854	\$434	---	\$19,339	---	\$51,433	\$6,178	\$21,721	---	---		
Cost of buildings, machinery, and equipment erected or installed during year	\$840,754	\$29,480	\$2,394	\$136,753	\$4,000	\$600	\$211,537	\$40,800	\$95,354	\$19,112	\$5,300	---	\$65,724		
Buildings	\$182,924	\$814	\$2,394	\$36,847	---	---	\$82,795	\$10,010	\$9,884	\$976	\$4,350	---	\$45,214		
Machinery and equipment, total	\$477,830	\$28,666	---	\$102,906	\$4,000	\$600	\$128,742	\$30,800	\$85,470	\$18,736	\$1,000	---	\$45,510		
Purchased in new condition	\$417,321	\$28,252	---	\$98,258	---	---	\$127,707	\$30,530	\$75,423	\$18,736	---	---	\$49,360		
Purchased in used condition	\$80,509	\$414	---	\$18,650	\$4,000	\$600	\$1,035	---	\$10,046	---	\$1,000	---	\$2,150		
Number of man-hours worked by wage earners	6,451,127	1,219,864	236,475	979,239	50,528	32,570	825,097	180,234	359,355	430,543	102,375	146,320	1,668,411		
Average hourly earning of wage earners	\$0.67	\$0.71	\$0.54	\$0.66	\$0.55	\$0.47	\$0.55	\$0.62	\$0.54	\$0.54	\$0.58	\$0.46	\$0.81		
Horsepower rating of prime movers and electric motors driven by purchased energy, total	90,674	15,967	4,776	16,526	1,228	392	18,772	2,630	5,065	3,120	2,143	709	18,256		
Per wage earner	28.9	25.2	47.9	37.1	51.2	26.1	48.3	29.8	26.2	11.1	38.3	9.0	17.6		
Prime movers	45,960	942	4,054	6,820	795	160	10,787	850	2,828	1,679	1,676	617	15,180		
Electric motors driven by purchased energy	44,714	15,015	782	10,306	433	232	7,985	1,780	2,237	1,241	473	92	4,176		
Horsepower rating of electric motors driven by energy generated by reporting companies	15,515	---	3,558	1,241	---	---	309	---	---	---	---	403	9,704		
Fuels consumed:															
Anthracite (tons of 2,000 pounds)	45,841	397	318	3,235	---	---	16	---	---	---	---	---	39,375		
Bituminous coal (tons of 2,000 pounds)	17,482	1,623	956	5,331	89	---	5,386	877	182	762	798	3,736	---		
Fuel oils (barrels of 42 gallons)	47,202	378	1,956	2,172	85	---	5,538	11,635	7,679	3,935	---	2,922	6,702		
Gasoline and kerosene (gallons)	1,962,559	41,026	42,658	711,846	22,550	9,960	895,787	41,767	180,963	90,075	116,275	1,000	38,574		
Electric energy consumed (thousands of kw.-hrs.), total	53,806	17,628	4,276	5,340	182	23	7,328	2,538	5,694	824	456	385	11,652		
Purchased	42,946	17,628	619	5,035	182	23	7,196	2,538	5,694	824	456	25	5,276		
Generated by reporting companies	10,860	---	3,657	305	---	---	162	---	---	---	---	360	6,376		

¹ 1 nonproducing iron-ore mine and 1 nonproducing quarry and crushing plant in the crushed and broken basalt industry were reported, but are not covered in the table to avoid disclosure of confidential information. No contract-service operations were classified in the State.

² Represents 2 quarries and 2 crushing plants in the crushed and broken granite industry and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.

³ Represents 1 rough-dimension granite quarry, 2 quarries and 1 crushing plant in the rough-dimension sandstone industry, and 1 rough-dimension marble quarry.

⁴ 1 mine in the kaolin and ball-clay industry is included under "All other" to avoid disclosure of confidential information.

⁵ Represents 2 mines and 2 mills in the zinc-ore industry, 1 mine in the kaolin and ball-clay industry, and 2 mines and 2 preparation plants in the peat industry.

⁶ Companies with operations in more than 1 industry are counted only once in the totals.

⁷ Includes amounts received or due for contract services performed during the year.

⁸ Includes statistics for central-office employees in the crude-petroleum and natural-gas, lode-gold, and native asphalt and bituminous industries.

⁹ No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW JERSEY, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Bergen	Burlington	Camden	Cumberland	Essex	Gloucester	Hunterdon	Mercer
Number of operating companies ¹	117	6	12	8	12	4	4	3	4
Number of mines and quarries	135	6	12	8	14	4	4	3	5
Number of preparation plants	108	4	8	6	16	4	4	3	5
Value of all products	\$14,123,600	\$144,017	\$478,057	\$404,082	\$1,518,514	\$320,337	\$99,454	\$81,118	\$249,911
Number of persons engaged, total	4,010	34	140	84	309	61	29	18	79
Wage earners (average for the year)	3,369	25	119	65	288	47	16	17	58
Salaried employees	609	7	18	15	41	12	11	—	41
Proprietors and firm members	32	2	3	4	—	2	2	1	—
Performing manual labor	16	2	1	2	—	—	—	—	—
Principal expenses designated below, total	\$8,947,206	\$76,498	\$215,456	\$253,583	\$756,589	\$190,985	\$61,455	\$22,960	\$209,362
Wages	\$4,514,234	\$31,532	\$100,806	\$75,724	\$300,245	\$65,140	\$18,124	\$18,060	\$82,561
Salaries	\$1,611,684	\$13,420	\$29,696	\$73,550	\$159,504	\$45,792	\$21,514	—	\$97,968
Supplies and materials	\$1,719,512	\$16,608	\$32,740	\$64,249	\$102,496	\$27,309	\$13,959	\$1,750	\$21,254
Fuel	\$570,598	\$6,289	\$33,229	\$29,971	\$65,759	\$18,121	\$5,624	\$5,130	\$27,230
Purchased electric energy	\$636,304	\$6,649	\$1,463	\$8,916	\$98,585	\$21,920	\$2,098	—	\$10,299
Contract work	\$95,077	—	\$15,530	\$973	\$30,000	\$12,701	\$2,356	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$640,754	\$15,004	\$23,842	\$36,119	\$140,227	\$56,800	\$13,217	—	\$1,960
Buildings	\$162,924	\$404	\$19,108	\$10,175	\$17,406	\$2,594	—	—	—
Machinery and equipment	\$477,830	\$14,600	\$4,734	\$27,944	\$122,821	\$54,206	\$13,217	—	\$1,960
Horsepower rating of prime movers and electric motors driven by purchased energy, total	90,674	1,289	2,243	2,563	7,008	2,189	875	587	1,721
Prime movers	45,960	1,044	2,143	2,248	3,117	1,372	643	587	1,258
Electric motors driven by purchased energy	44,714	245	100	315	3,891	817	232	—	463
Horsepower rating of electric motors driven by energy generated by reporting companies	15,615	450	403	42	—	—	—	165	875
Fuels consumed: ²									
Anthracite (tons of 2,000 pounds)	43,841	—	11	—	—	570	—	—	2,800
Bituminous coal (tons of 2,000 pounds)	17,482	—	4,958	1,900	785	—	—	—	—
Fuel oils (barrels of 42 gallons)	47,202	568	2,622	3,718	18,055	50	—	95	1,095
Gasoline and kerosene (gallons)	1,982,568	47,220	62,750	108,561	262,044	128,889	48,131	19,000	96,214
Electric energy consumed (thousands of kw.-hrs.), total	53,806	275	391	300	5,978	1,039	49	40	638
Purchased	42,946	189	31	294	5,978	1,039	49	—	526
Generated by reporting companies	10,860	86	360	6	—	—	—	40	112

ITEM	Middlesex	Monmouth	Morris	Ocean	Passaic	Somerset	Sussex	Warren	All other ³
Number of operating companies ¹	20	7	12	3	10	5	5	6	4
Number of mines and quarries	28	7	12	3	11	5	6	7	4
Number of preparation plants	12	7	12	3	10	4	8	3	5
Value of all products	\$1,259,261	\$141,417	\$3,141,245	\$420,088	\$997,057	\$944,009	\$3,396,150	\$469,211	\$280,132
Number of persons engaged, total	489	44	713	44	234	182	1,290	156	94
Wage earners (average for the year)	381	35	654	37	196	146	1,109	149	66
Salaried employees	103	6	58	7	34	34	179	18	25
Proprietors and firm members	5	3	1	—	—	—	2	—	3
Performing manual labor	4	1	1	—	2	—	—	—	3
Principal expenses designated below, total	\$646,675	\$87,253	\$1,727,115	\$142,873	\$496,712	\$620,408	\$2,681,980	\$557,503	\$217,004
Wages	\$357,735	\$59,862	\$810,506	\$49,505	\$289,375	\$204,091	\$1,539,263	\$170,895	\$82,800
Salaries	\$288,993	\$9,264	\$154,708	\$19,153	\$51,196	\$80,279	\$475,957	\$52,371	\$80,897
Supplies and materials	\$62,005	\$16,469	\$447,173	\$54,730	\$59,344	\$252,649	\$433,458	\$84,563	\$48,656
Fuel	\$47,270	\$15,495	\$40,015	\$7,792	\$54,460	\$41,556	\$171,020	\$9,881	\$11,759
Purchased electric energy	\$44,983	\$5,663	\$189,575	\$31,693	\$65,537	\$52,033	\$54,302	\$39,793	\$13,123
Contract work	\$27,899	\$500	\$5,138	—	—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$35,872	\$23,207	\$22,061	\$29,166	\$97,166	\$13,166	\$97,988	\$46,724	\$6,265
Buildings	\$4,800	\$1,565	\$814	\$21,497	\$33,653	—	\$49,608	\$2,500	—
Machinery and equipment	\$31,072	\$21,642	\$21,247	\$7,669	\$63,513	\$13,166	\$49,380	\$44,224	\$6,265
Horsepower rating of prime movers and electric motors driven by purchased energy, total	7,524	1,685	16,561	1,800	8,097	4,125	23,208	4,640	2,569
Prime movers	4,249	1,304	3,303	284	2,215	1,131	19,082	954	1,101
Electric motors driven by purchased energy	3,275	381	15,248	1,516	5,882	2,995	4,176	3,706	1,467
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	287	—	—	201	11,818	1,244	50
Fuels consumed: ²									
Anthracite (tons of 2,000 pounds)	—	—	402	—	138	27	40,193	—	—
Bituminous coal (tons of 2,000 pounds)	1,834	—	3,076	64	704	2,027	80	1,255	329
Fuel oils (barrels of 42 gallons)	4,040	71	521	4,998	873	146	8,689	186	1,260
Gasoline and kerosene (gallons)	241,659	181,974	220,549	9,853	242,495	207,058	56,772	42,617	69,885
Electric energy consumed (thousands of kw.-hrs.), total	1,702	181	17,131	3,422	2,745	1,546	12,661	5,105	613
Purchased	1,702	181	17,077	3,422	2,745	1,383	5,276	2,457	597
Generated by reporting companies	—	—	54	—	—	163	7,385	2,648	16

¹ Companies with operations in more than 1 county are counted only once in the totals.² Atlantic, Cape May, Salem, Union, and central offices in Hudson County.³ No natural gas was reported consumed.

NEW MEXICO

New Mexico ranked fourteenth among the States in value of products of mineral industries in 1939, and twenty-first in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 57 percent of that in 1929, and the number of wage earners 71 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the value of products in 1939 was 261 percent of that in 1919, but the number of wage earners 92 percent. Differences between totals for 1939 and 1929 are largely accounted for by decreases reported in the bituminous-coal, copper-ore, and zinc-ore industries; between 1939 and 1919 a large increase was reported in the crude-petroleum and natural-gas industry, but there was a substantial decline in both the value of products and number of wage earners in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 92 percent of that in 1929, and 213 percent of that in 1919.

The crude-petroleum and natural-gas industry accounted for 58 percent of the total value of products of mineral industries in the State in 1939, and for 20 percent of the total number of

wage earners. (See table 2.) The copper-ore industry ranked second in value of products, with 15 percent of the total, and employed 21 percent of the wage earners. The bituminous-coal industry employed the largest number of wage earners, amounting to 30 percent of the total, and reported 8 percent of the total value of products. The copper-ore industry in the State accounted for 7 percent of the total recoverable copper produced by the copper-ore industry in the United States. New Mexico ranked first among all States in both quantity and value of potassium salts produced in the United States. The value of products of the potash industry in the State was exceeded, however, by that of the potash industry in California, where large amounts of other minerals were produced as secondary products of the industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, iron ore, lode gold, placer gold, silver ore, lead ore, zinc ore, manganese ore, molybdenum ore, tungsten ore, common sand and gravel, fire clay, common clay and shale, fluorspar, Iceland spar, natural abrasives, and rock salt. Mineral operations (other than oil and gas wells) were located in 22 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEW MEXICO: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, potash, and rock-salt industries)		1919 AND 1919 (Excluding the common clay and shale, common sand and gravel, potash, and rock- salt industries)	
		1929	1929	1919	1919
Number of mines and quarries—	100	94	89	90	103
Number of oil and gas wells producing at end of year—	2,981			2,981	1
Number of natural-gasoline plants—	6			6	
Value of all products—	\$55,559,166	\$15,545,905	\$27,141,764	\$49,290,764	\$18,965,054
Number of persons engaged, total—	8,256	5,450	7,522	7,354	7,607
Wage earners (average for the year)—	7,340	4,955	6,986	6,505	7,100
Salaried employees—	792	416	501	699	438
Proprietors and firm members—	124	59	35	122	69
Performing manual labor—	56	25	(¹)	55	29
Principal expenses designated below, total—	\$25,614,645	\$10,245,986	\$17,610,118	\$23,153,512	\$17,017,667
Wages—	\$9,469,215	\$5,408,317	\$10,118,023	\$8,072,400	\$10,493,857
Salaries—	\$1,945,369	\$968,725	\$1,286,796	\$1,656,792	\$1,151,046
Supplies and materials—	\$5,222,855	\$2,796,994	\$4,389,541	\$4,459,957	\$3,879,948
Fuel—	\$1,589,375	\$759,647	\$1,390,922	\$1,233,269	\$1,292,280
Purchased electric energy—	\$512,747	\$294,261	\$508,264	\$510,274	\$68,950
Contract work—	\$7,476,094	\$27,034	\$116,982	\$7,470,950	\$131,606
Cost of machinery and equipment installed during year—	\$5,624,351	\$560,565	\$1,196,015	\$5,391,945	(¹)
Horsepower rating of power equipment, total—	144,175	84,959	90,961	127,342	59,876
Per wage earner—	19.6	17.0	13.0	19.6	8.4
Prime movers—	127,763	67,687	72,007	111,049	55,031
Electric motors driven by purchased energy—	16,412	16,222	17,954	16,294	4,845
Electric energy consumed (thousands of kw.-hrs.), total—	159,408	108,914	127,676	114,599	(¹)
Purchased—	20,371	19,709	15,984	20,318	(¹)
Generated by reporting companies—	119,037	89,205	111,692	94,281	(¹)

¹ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW MEXICO, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS					
		Total	Fuels			Metallic ores	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Lode gold	Copper ore
Number of operating companies ¹	273	241	142	5	37	14	4
Number of mines and quarries	103	100			42	14	4
Number of oil and gas wells producing on December 31, 1939	2,981	2,981	2,981				
Number of preparation plants	50	50		6	1	5	2
Value of all products ²	\$59,443,932	\$55,559,164	\$32,070,565	\$1,765,123	\$3,579,049	\$679,963	\$8,562,780
Number of persons engaged, total	9,271	8,286	1,775	188	2,387	264	1,697
Wage earners (average for the year)	8,237	7,540	1,435	188	2,193	246	1,541
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	8,399	7,532	1,440	135	2,585	185	1,285
February	8,194	7,392	1,380	135	2,565	205	1,310
March	8,268	7,580	1,396	142	2,580	219	1,377
April	8,434	7,480	1,496	137	2,282	296	1,416
May	8,350	7,597	1,528	189	2,138	296	1,445
June	7,766	6,951	1,447	159	2,054	300	1,484
July	7,860	7,051	1,479	148	1,996	287	1,363
August	8,085	7,129	1,442	148	2,079	245	1,642
September	8,076	7,197	1,437	136	2,129	252	1,670
October	8,323	7,442	1,423	130	2,164	218	1,734
November	8,483	7,544	1,376	136	2,201	222	1,787
December	8,655	7,820	1,374	134	2,210	235	1,865
Salaried employees	865	792	265	20	180	16	155
Proprietors and firm members	169	154	75		34	2	
Performing manual labor	64	56	21		27		
Principal expenses designated below, total	\$27,338,678	\$25,814,645	\$12,313,498	\$652,619	\$3,014,500	\$486,849	\$4,895,592
Wages	\$10,714,169	\$9,466,215	\$2,447,132	\$231,682	\$2,082,675	\$251,770	\$2,036,142
Salaries	\$2,128,495	\$1,945,569	\$631,625	\$40,055	\$395,015	\$31,821	\$374,065
Supplies and materials	\$5,242,890	\$5,222,855	\$1,501,816	\$172,809	\$359,995	\$164,725	\$1,837,265
Fuel	\$1,395,417	\$1,369,375	\$281,036	\$198,057	\$78,131	\$41,072	\$545,445
Purchased electric energy	\$518,645	\$312,747	\$18,333		\$98,655	\$1,552	\$86,547
Contract work	\$7,321,082	\$7,476,084	\$7,435,768	\$10,038	\$25	\$5,811	\$10,100
Cost of buildings, machinery, and equipment erected or installed during year	\$6,654,351	\$6,607,275	\$5,289,858	\$153,712	\$37,581	\$19,775	\$590,209
Buildings	\$964,827	\$982,944	\$612,178		\$3,504	\$5,652	\$232,487
Machinery and equipment, total	\$5,690,604	\$5,624,331	\$4,677,680	\$153,712	\$34,077	\$16,123	\$357,742
Purchased in new condition	\$5,506,326	\$5,280,556	\$4,518,126	\$153,712	\$21,645	\$15,565	\$267,716
Purchased in used condition	\$344,078	\$343,775	\$164,554		\$12,432	\$2,760	\$70,026
Number of man-hours worked by wage earners	15,026,326	12,465,446	2,757,495	312,825	2,665,526	562,079	3,427,324
Average hourly earning of wage earners	\$0.71	\$0.70	\$0.89	\$0.74	\$0.78	\$0.45	\$0.59
Horsepower rating of prime movers and electric motors driven by purchased energy, total	171,231	144,175	30,225	13,858	21,582	2,865	49,665
Per wage earner	20.6	19.6	21.1	100.4	9.7	11.6	32.2
Prime movers	133,242	127,765	30,058	13,858	11,475	2,765	46,442
Electric motors driven by purchased energy	17,989	16,412	167		9,877	100	3,224
Horsepower rating of electric motors driven by energy generated by reporting companies	58,028	57,925	880	882	5,804	1,245	35,239
Fuels consumed:							
Bituminous coal (tons of 2,000 pounds)	492,631	82,631			36,828	122	40,314
Fuel oils (barrels of 42 gallons)	174,047	173,855	82,528		1,812	11,720	5,860
Gasoline and kerosene (gallons)	616,033	614,445	23,844		19,320	40,581	90,089
Natural gas (thousands of cubic feet)	26,829,131	26,827,961	4,564,810	20,085,001			1,581,815
Electric energy consumed (thousands of kw.-hrs.), total	139,800	139,408	1,532	4,204	12,114	4,959	78,374
Purchased	20,765	20,371	660		5,307	50	7,189
Generated by reporting companies	119,035	119,037	872	4,204	6,807	4,889	69,185

¹ Companies with operations in more than 1 industry are counted only once in the totals.² Includes amounts received or due for contract services performed during the year.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.⁴ Excludes statistics for contract-service operations.⁵ No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW MEXICO, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ^a	Nonproducing operations ^b
	Metallic ores—Continued		Common sand and gravel	Common clay and shale	Fluorspar	All other ^c		
	Zinc ore	Other ^d						
Number of operating companies ¹	11	12	4	4	7	6	34	4
Number of mines and quarries	10	12	4	4	5	5	—	2
Number of oil and gas wells producing on December 31, 1939	—	—	—	—	—	—	—	—
Number of preparation plants	4	2	4	—	3	5	—	—
Value of all products ²	\$1,699,296	\$720,351	\$90,559	\$22,423	\$98,711	\$6,270,066	\$3,884,666	—
Number of persons engaged, total	667	275	29	22	72	922	941	64
Wage earners (average for the year)— Number receiving pay during pay-roll period ending nearest the 15th of:	610	246	25	22	56	826	842	55
January	991	212	30	15	64	790	821	46
February	985	215	17	13	46	727	757	45
March	851	215	26	29	50	755	876	12
April	792	216	37	32	51	735	920	44
May	793	219	54	21	50	734	872	61
June	426	232	39	18	49	735	746	59
July	391	250	31	18	65	805	766	63
August	400	259	31	12	66	801	898	58
September	456	272	19	34	64	848	821	56
October	424	285	10	34	63	957	846	33
November	429	281	7	18	69	1,018	861	78
December	418	287	12	16	66	979	915	100
Salaried employees	56	18	2	—	6	93	64	9
Proprietors and firm members	1	9	2	—	2	3	35	—
Performing manual labor	1	4	1	—	2	—	8	—
Principal expenses designated below, total	\$1,205,001	\$470,467	\$28,591	\$14,775	\$85,412	\$2,651,573	^a \$1,359,101	\$161,932
Wages	\$655,449	\$279,084	\$14,751	\$15,408	\$40,228	\$1,405,916	\$1,185,761	\$80,175
Salaries	\$105,338	\$43,771	\$3,597	—	\$11,580	\$208,550	\$158,247	\$24,879
Supplies and materials	\$297,519	\$107,018	\$3,452	\$370	\$17,764	\$770,326	^b \$11,036	\$9,000
Fuel	\$38,292	\$37,064	\$4,471	—	\$1,657	\$156,120	^c \$3,038	\$1,004
Purchased electric energy	\$91,105	—	\$2,340	\$133	\$8,185	\$5,888	(2)	\$5,888
Contract work	\$7,498	\$3,500	—	\$662	—	\$4,592	(30)	\$44,978
Cost of buildings, machinery, and equipment erected or installed during year	\$56,014	\$90,960	—	—	\$30,748	\$336,518	(3)	\$27,556
Buildings	\$7,536	\$249	—	—	\$3,165	\$100,193	(2)	\$1,265
Machinery and equipment, total	\$48,478	\$90,611	—	—	\$27,583	\$236,325	(2)	\$26,275
Purchased in new condition	\$39,545	\$14,777	—	—	\$18,608	\$258,064	(2)	\$26,170
Purchased in used condition	\$9,133	\$75,834	—	—	\$9,975	\$82	(2)	\$103
Number of man-hours worked by wage earners	1,358,927	590,998	36,077	44,079	102,224	1,607,892	1,448,610	118,870
Average hourly earning of wage earners	\$0.49	\$0.47	\$0.41	\$0.30	\$0.39	\$0.37	\$0.82	\$0.71
Horsepower rating of prime movers and electric motors driven by purchased energy, total	4,962	3,285	800	25	649	16,275	25,965	1,091
Per wage earner	8.2	15.3	32.0	1.0	14.6	19.7	30.8	19.6
Prime movers	2,562	5,285	705	—	568	16,080	25,190	289
Electric motors driven by purchased energy	2,420	—	95	23	281	225	775	802
Horsepower rating of electric motors driven by energy generated by reporting companies	513	995	—	—	—	11,565	10	95
Fuels consumed: ⁵								
Bituminous coal (tons of 2,000 pounds)	4,652	189	298	—	—	28	(30)	—
Fuel oils (barrels of 42 gallons)	6,412	5,607	—	—	—	53,396	(30)	212
Gasoline and kerosene (gallons)	12,455	112,671	22,562	—	22,190	59,108	(30)	1,590
Natural gas (thousands of cubic feet)	—	—	—	—	6,747	780,898	(30)	1,190
Electric energy consumed (thousands of kw.-hrs.), total	13,350	1,408	51	2	364	25,080	(30)	392
Purchased	6,434	—	51	2	364	294	(30)	392
Generated by reporting companies	6,916	1,408	—	—	—	24,786	(30)	—

¹ Companies with operations in more than 1 industry are counted only once in the totals.² Includes amounts received or due for contract services performed during the year.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.⁴ No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.⁵ Represents 1 iron-ore mine, 4 placer-gold mines, 2 silver-ore mines, 1 lead-ore mine, 2 mines and 1 mill in the manganese-ore industry, 1 mine and 1 mill in the molybdenum-ore industry, and 1 mine in the tungsten-ore industry.⁶ Represents 1 fire-clay mine, 1 mine and 1 preparation plant in the Iceland-spar industry, 1 mine and 1 preparation plant in the natural-abrasives industry, 2 mines and 2 preparation plants in the potash industry, and 1 preparation plant in the rock-salt industry.⁷ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.⁸ Represents operations of 1 company in the crude-petroleum and natural-gas industry, 2 lode-gold mines, and 1 potash mine.⁹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW MEXICO, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Bernalillo	Catron	Colfax	Eddy	Grant	Hidalgo
Number of operating companies ¹	102	6	6	14	5	19	3
Number of mines and quarries	100	6	6	16	3	19	2
Number of preparation plants	50	2	1	2	3	5	2
Value of all products	\$25,466,571	\$75,625	\$553,516	\$1,862,714	\$6,155,120	\$9,198,668	\$601,525
Number of persons engaged, total	6,491	32	174	1,098	880	2,025	161
Wage earners (average for the year)	5,905	27	165	995	789	1,849	145
Salaries	527	5	7	92	91	171	15
Proprietors and firm members	59	2	4	11	—	5	1
Performing manual labor	55	2	5	8	—	1	—
Principal expenses designated below, total	\$12,501,147	\$29,127	\$240,600	\$1,484,555	\$2,587,769	\$5,865,187	\$457,876
Wages	\$7,021,083	\$16,622	\$132,641	\$950,061	\$1,567,876	\$2,289,210	\$220,271
Salaries	\$1,318,746	\$4,797	\$17,515	\$248,175	\$504,890	\$410,590	\$28,877
Supplies and materials	\$5,721,239	\$5,656	\$107,955	\$185,361	\$758,876	\$1,951,940	\$144,245
Fuel	\$1,108,589	\$1,707	\$50,507	\$12,261	\$151,655	\$581,157	\$5,817
Purchased electric energy	\$294,414	\$2,340	\$85,881	\$85,881	—	\$120,201	\$59,568
Contract work	\$42,526	\$25	\$2,402	\$2,618	\$4,592	\$12,289	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,517,417	\$5,218	\$18,089	\$15,255	\$352,055	\$568,565	\$2,590
Buildings	\$570,766	\$180	\$3,587	\$800	\$99,667	\$241,710	\$1,000
Machinery and equipment	\$946,651	\$5,038	\$14,492	\$14,455	\$252,388	\$326,855	\$1,590
Horsepower rating of prime movers and electric motors driven by purchased energy, total	113,950	480	1,688	8,853	16,010	52,507	2,413
Prime movers	27,705	355	1,688	998	16,010	49,071	105
Electric motors driven by purchased energy	16,245	125	—	7,855	—	5,436	2,308
Horsepower rating of electric motors driven by energy generated by reporting companies	37,045	—	1,191	54	11,565	56,152	—
Fuels consumed: ²							
Bituminous coal (tons of 2,000 pounds)	92,851	—	—	2,675	28	40,686	—
Fuel oils (barrels of 42 gallons)	94,307	12	10,387	1,372	51,255	14,695	714
Gasoline and kerosene (gallons)	556,899	13,494	5,610	14,607	36,505	138,547	11,384
Natural gas (thousands of cubic feet)	27,463,851	—	—	—	780,588	1,591,515	580
Electric energy consumed (thousands of kw.-hrs.), total	157,876	51	4,627	5,172	24,756	60,432	5,155
Purchased	19,711	51	—	4,910	—	8,529	5,155
Generated by reporting companies	119,165	—	4,627	262	24,756	71,903	—

ITEM	Lea	Luna	McKinley	Sandoval	Santa Fe	Sierra	Socorro	All other ³
Number of operating companies ¹	5	4	14	3	3	6	3	14
Number of mines and quarries	—	3	14	—	—	6	3	14
Number of preparation plants	6	2	—	—	6	1	—	6
Value of all products	\$1,765,125	\$88,517	\$1,400,645	\$15,765	\$452,952	\$94,036	\$29,459	\$1,042,768
Number of persons engaged, total	159	76	985	25	321	47	36	476
Wage earners (average for the year)	152	56	908	21	302	42	34	459
Salaries	20	16	64	—	19	4	1	24
Proprietors and firm members	—	4	15	2	—	1	1	15
Performing manual labor	—	—	10	2	—	1	—	8
Principal expenses designated below, total	\$652,619	\$89,271	\$1,242,698	\$15,012	\$418,526	\$79,899	\$28,694	\$714,017
Wages	\$251,682	\$32,085	\$962,616	\$12,726	\$275,568	\$38,516	\$19,498	\$602,109
Salaries	\$40,035	\$32,304	\$139,478	—	\$31,278	\$12,771	\$5,000	\$56,140
Supplies and materials	\$172,609	\$14,019	\$168,552	\$1,777	\$74,575	\$12,771	\$6,158	\$126,608
Fuel	\$199,057	\$2,040	\$51,735	\$509	\$24,172	\$12,341	\$258	\$37,541
Purchased electric energy	—	\$7,825	\$10,517	—	\$2,153	—	—	\$6,156
Contract work	\$10,038	—	—	—	\$6,000	\$5,500	—	\$881
Cost of buildings, machinery, and equipment erected or installed during year	\$153,712	\$27,590	\$16,678	—	\$89,745	\$77,495	\$250	\$7,981
Buildings	—	\$2,140	\$2,554	—	\$18,578	\$49	—	\$721
Machinery and equipment	\$153,712	\$25,450	\$16,324	—	\$71,167	\$77,446	\$250	\$7,260
Horsepower rating of prime movers and electric motors driven by purchased energy, total	13,838	376	8,657	—	4,850	1,748	945	1,725
Prime movers	13,838	95	7,125	—	4,250	1,748	945	1,477
Electric motors driven by purchased energy	—	251	1,412	—	600	—	—	246
Horsepower rating of electric motors driven by energy generated by reporting companies	982	—	4,799	—	1,805	575	—	60
Fuels consumed: ²								
Bituminous coal (tons of 2,000 pounds)	—	—	26,454	75	7,472	—	76	4,987
Fuel oils (barrels of 42 gallons)	—	—	756	54	1,658	—	7	5,241
Gasoline and kerosene (gallons)	—	5,240	11,712	788	9,204	179	268	12,031
Natural gas (thousands of cubic feet)	20,083,001	6,397	—	—	—	97,104	—	—
Electric energy consumed (thousands of kw.-hrs.), total	4,204	375	4,679	—	2,518	474	—	5,431
Purchased	—	—	—	—	—	—	—	—
Generated by reporting companies	4,204	375	4,679	—	2,518	474	—	5,431

¹ Companies with operations in more than 1 county are counted only once in the totals.² Cheves, Dona Ana, Lincoln, Quay, Rio Arriba, San Juan, San Miguel, Taos, and Valencia.³ No anthracite was reported consumed.

NEW YORK

New York ranked nineteenth among the States in value of products of mineral industries in 1939, and twenty-second in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 71 percent of that in 1929, and the number of wage earners 80 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 141 percent of that in 1919, and the number of wage earners 85 percent. Differences in the totals between 1929 and 1939 are accounted for primarily by decreases in the limestone and common sand and gravel industries; between 1919 and 1939 the value of products increased in the crude-petroleum and natural-gas and limestone industries. Total horsepower rating of power equipment at mineral operations in 1939 was 161 percent of that in 1929, and 227 percent of that in 1919.

The crude-petroleum and natural-gas industry accounted for 30 percent of the total value of products of mineral industries in the State, and for 20 percent of the wage earners employed. The common sand and gravel industry reported 19 percent of the

value of products and 18 percent of the wage earners, and the limestone industry 17 percent of the value of products and 21 percent of the wage earners. New York ranked first, by value of products, among all States in the common sand and gravel, graphite, gypsum, natural abrasives, peat, and talc and soapstone industries; second in the foundry-sand and rock-salt industries; and third in the crushed and broken limestone and common clay and shale industries. The State accounted for 25 percent of the value of products of the gypsum industry in the United States; about one-fourth of the total for the natural-abrasives industry; 30 percent of the total for the peat industry; and over one-fourth and one-third of the totals for the rock-salt and talc and soapstone industries, respectively. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, iron ore, zinc ore, granite, basalt, sandstone, slate, miscellaneous stone, kaolin and ball clay, diatomite, and feldspar. Mineral operations (other than oil and gas wells) were located in 52 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, natural- gasoline, peat, potash, and rock-salt industries)		1919 AND 1919 (Excluding the common clay and shale, sand and gravel, peat, and potash industries)	
		1929	1929	1919 ¹	1919
Number of mines and quarries—	286	246	296	172	147
Number of oil and gas wells producing at end of year—	14,729	—	—	14,729	14,186
Number of natural-gasoline plants—	1	—	—	1	6
Value of all products—	\$40,277,851	\$25,665,258	\$36,045,204	\$31,553,033	\$22,459,007
Number of persons engaged, total—	8,867	6,580	7,213	7,029	7,915
Wage earners (average for the year)—	6,817	5,117	6,452	5,268	6,202
Salaries—	1,679	1,511	682	1,424	315
Proprietors and firm members—	291	92	89	237	896
Performing manual labor—	115	46	(a)	96	202
Principal expenses designated below, total—	\$25,477,377	\$17,564,012	\$20,165,416	\$19,006,079	\$15,644,487
Wages—	\$9,599,356	\$7,210,258	\$10,029,766	\$7,030,716	\$7,406,781
Salaries—	\$5,708,596	\$4,565,826	\$2,537,045	\$5,021,772	\$1,431,801
Supplies and materials—	\$4,125,672	\$3,375,217	\$5,076,105	\$3,479,995	\$4,784,500
Fuel—	\$1,476,599	\$1,009,216	\$917,527	\$1,038,555	\$907,027
Purchased electric energy—	\$1,373,580	\$1,298,571	\$1,496,649	\$1,062,843	\$455,218
Contract work—	\$1,597,974	\$124,824	\$106,326	\$1,558,120	\$759,560
Cost of machinery and equipment installed during year—	\$2,420,357	\$1,526,765	\$1,709,964	\$1,700,511	(*)
Horsepower rating of power equipment, total—	276,038	235,110	145,995	207,642	21,359
Per wage earner—	40.2	45.9	22.7	39.4	14.7
Prime movers—	145,219	106,681	50,115	98,540	62,436
Electric motors driven by purchased energy—	134,819	128,479	95,962	106,102	28,923
Electric energy consumed (thousands of kw.-hrs.), total—	120,552	114,916	106,034	107,462	(*)
Purchased—	112,867	108,365	98,330	100,235	(*)
Generated by reporting companies—	7,685	6,551	7,694	7,227	(*)

¹ Includes 2 mines and 2 preparation plants in the rock-salt industry. Also includes 11 limestone mines and quarries, with products valued at \$795,000, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

² Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS									
		Total	Crude petroleum and natural gas	Iron ore	Stone						
					Crushed and broken				Rough dimension		
					Limestone	Basalt	Sandstone	Other ¹	Granite	Sandstone	Slate
Number of operating companies ²	455	419	190	4	51	3	5	4	3	11	4
Number of mines and quarries	287	286	—	4	62	3	4	4	3	12	4
Number of oil and gas wells producing on December 31, 1939	14,729	14,729	14,729	—	—	—	—	—	—	—	—
Number of preparation plants	217	217	—	2	59	3	5	4	—	1	—
Value of all products ³	\$41,151,556	\$40,277,851	\$12,085,589	\$5,442,222	\$6,956,448	\$992,855	\$175,297	\$645,049	\$70,008	\$94,176	\$14,136
Number of persons engaged, total	9,165	* 8,887	1,955	1,080	1,612	156	54	174	41	90	18
Wage earners (average for the year)	7,044	6,617	1,568	978	1,414	157	47	164	55	41	11
Number receiving pay during pay-roll period ending nearest the 15th of:											
January	5,690	5,525	1,244	972	908	125	22	141	21	15	14
February	5,449	5,285	1,255	940	791	116	21	86	22	15	16
March	5,951	5,738	1,318	900	1,042	129	25	107	28	16	16
April	6,682	6,451	1,376	826	1,295	153	47	164	39	35	14
May	7,560	7,125	1,393	845	1,560	152	61	178	45	55	15
June	7,725	7,475	1,376	845	1,760	156	66	192	41	61	15
July	7,800	7,570	1,370	891	1,792	155	71	205	42	62	11
August	7,818	7,570	1,385	1,001	1,741	114	69	185	46	67	8
September	7,915	7,651	1,405	1,078	1,746	154	64	180	55	59	5
October	7,885	7,587	1,385	1,132	1,711	151	45	191	56	55	7
November	7,597	7,145	1,380	1,155	1,447	152	58	185	55	41	8
December	6,880	6,652	1,404	1,160	1,191	151	51	164	51	12	9
Salaried employees	1,695	1,679	505	102	179	19	4	10	4	1	—
Proprietors and firm members	426	391	294	—	19	—	—	—	2	8	7
Performing manual labor	135	115	69	—	4	—	—	—	2	3	5
Principal expenses designated below, total	*\$23,845,027	*\$25,477,377	\$4,669,698	\$2,569,494	\$4,556,550	\$504,418	\$120,354	\$447,680	\$61,582	\$51,608	\$10,299
Wages	\$9,696,026	\$9,599,556	\$1,722,466	\$1,204,088	\$2,022,712	\$229,098	\$35,588	\$255,859	\$41,981	\$58,845	\$7,876
Salaries	\$5,754,150	*\$5,702,596	\$892,351	\$242,955	\$482,117	\$65,075	\$8,780	\$28,554	\$6,200	\$2,800	—
Supplies and materials	*\$4,129,259	\$4,125,672	\$558,367	\$616,106	\$1,125,087	\$115,375	\$52,912	\$112,508	\$1,054	\$2,004	\$275
Fuel	*\$1,479,449	\$1,476,599	\$425,687	\$250,971	\$278,140	\$12,945	\$16,491	\$50,876	\$4,971	\$5,240	\$1,155
Purchased electric energy	*\$1,875,380	\$1,875,580	\$19,767	\$272,255	\$410,722	\$81,218	\$6,785	\$26,619	\$2,625	\$1,499	\$996
Contract work	*\$1,450,805	\$1,397,974	\$1,271,050	\$5,099	\$59,752	\$2,709	—	\$15,684	\$4,751	\$1,720	—
Cost of buildings, machinery, and equipment erected or installed during year	*\$2,862,956	\$2,825,954	\$903,998	\$374,187	\$492,401	\$15,064	\$8,000	\$51,612	\$940	\$708	\$377
Buildings	*\$407,102	\$405,597	\$66,379	\$95,911	\$54,605	—	\$2,500	\$15,220	—	—	—
Machinery and equipment, total	*\$2,455,854	\$2,420,357	\$837,619	\$278,256	\$437,796	\$15,064	\$5,500	\$36,392	\$940	\$708	\$377
Purchased in new condition	*\$2,155,992	\$2,146,515	\$766,727	\$278,256	\$399,604	\$12,164	—	\$9,785	\$500	\$705	\$320
Purchased in used condition	*\$299,842	\$275,842	\$50,892	—	\$38,194	\$3,900	\$5,500	\$6,807	\$640	—	\$277
Number of man-hours worked by wage earners	14,682,126	14,254,047	2,591,095	2,156,459	5,107,654	504,652	85,204	543,878	70,464	75,969	22,751
Average hourly earning of wage earners	\$0.66	\$0.66	\$0.66	\$0.66	\$0.65	\$0.75	\$0.45	\$0.69	\$0.60	\$0.53	\$0.53
Horsepower rating of prime movers and electric motors driven by purchased energy, total	285,595	278,038	32,627	30,588	94,546	8,564	1,404	6,750	479	1,088	1,820
Per wage earner	40.5	40.8	24.0	21.5	66.7	62.5	29.9	41.0	15.7	26.5	165.5
Prime movers	150,454	145,219	31,372	2,820	50,265	2,597	614	4,247	399	695	222
Electric motors driven by purchased energy	154,941	134,819	1,255	27,768	44,081	6,167	790	2,483	80	393	1,598
Horsepower rating of electric motors driven by energy generated by reporting companies	15,431	13,431	551	—	7,288	—	—	2,150	—	—	—
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	* 42,755	42,755	2	42,285	12	—	—	11	12	—	—
Bituminous coal (tons of 2,000 pounds)	* 64,280	64,280	239	4,041	29,780	527	116	1,571	18	128	1
Fuel oils (barrels of 42 gallons)	* 92,745	92,745	10,629	10,552	13,275	104	—	5,792	—	—	—
Gasoline and kerosene (gallons)	* 5,248,415	5,248,415	217,946	80,221	838,652	86,795	95,605	112,170	27,277	29,425	8,510
Natural gas (thousands of cubic feet)	* 1,596,210	1,596,096	1,596,920	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	* 120,552	120,552	684	31,112	34,247	4,159	236	2,927	66	46	21
Purchased	* 112,967	112,967	808	31,112	30,258	4,159	236	1,721	66	46	21
Generated by reporting companies	* 7,685	7,685	76	—	5,989	—	—	1,205	—	—	—

¹ Represents 1 quarry and 1 crushing plant in the crushed and broken granite industry, 2 quarries and 2 crushing plants in the crushed and broken slate industry, and 1 mine and 1 crushing plant in the crushed and broken miscellaneous stone industry.

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Includes statistics for central-office employees in the bituminous-coal, lode-gold, copper-ore, lead-ore, bauxite, molybdenum-ore, native asphalt and bitumens, phosphate-rock, potash, pyrites, and sulfur industries and at central offices not classified by industry.

⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁶ Excludes statistics for contract-service operations.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY INDUSTRY: 1939—Continued

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY INDUSTRY								
ITEM	PRODUCING OPERATIONS—Continued						Contract- service operations ^a	Nonproducing operations ^b
	Sand and gravel		Common clay and shale	Gypsum	Peat	All other ^c		
	Common sand and gravel	Foundry sand						
Number of operating companies ²	85	12	53	8	4	15	37	5
Number of mines and quarries	100	26	54	9	4	17		1
Number of oil and gas wells producing on December 31, 1939						10		
Number of preparation plants	100	22	2	5	4			
Value of all products ³	\$7,607,464	\$565,245	\$419,589	\$1,128,945	\$114,500	\$3,950,332	\$875,705	
Number of persons engaged, total	1,495	187	155	566	22	888	286	8
Wage earners (average for the year)	1,236	167	127	550	17	753	223	4
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	861	79	58	331	16	718	166	
February	845	74	44	320	15	727	164	
March	915	96	74	329	16	728	183	
April	1,190	130	126	344	18	715	231	
May	1,586	158	142	350	18	773	255	5
June	1,455	209	154	357	18	770	248	
July	1,457	191	125	338	18	766	226	4
August	1,427	228	170	366	18	749	245	5
September	1,485	216	168	366	18	735	254	8
October	1,408	246	146	363	18	745	245	8
November	1,522	228	127	362	18	671	250	4
December	1,154	155	137	348	18	699	225	23
Salaried employees	219	9	5	16		151	12	2
Proprietors and firm members	38	11	5			4	33	1
Performing manual labor	24	5				2	19	2
Principal expenses designated below, total	\$5,645,163	\$218,145	\$265,665	\$779,801	\$29,109	\$2,445,754	\$321,987	\$43,668
Wages	\$2,061,273	\$120,547	\$175,046	\$541,542	\$15,774	\$950,961	\$291,065	\$3,605
Salaries	\$529,905	\$27,000	\$7,049	\$58,680	\$3,632	\$407,909	\$27,534	\$4,200
Supplies and materials	\$578,441	\$25,055	\$35,505	\$158,951	\$8,700	\$777,594	\$8,800	\$2,967
Fuel	\$375,242	\$20,570	\$28,145	\$265	\$74	\$46,696	\$5,998	\$62
Purchased electric energy	\$270,455	\$1,206	\$19,622	\$59,935		\$199,559	(5)	\$32,829
Contract work	\$51,867	\$25,787	\$2,100			\$1,455	(2)	
Cost of buildings, machinery, and equipment erected or installed during year	\$757,214	\$27,941	\$28,954	\$12,346	\$4,235	\$187,904	(5)	\$38,982
Buildings	\$87,061		\$10,466	\$4,072	\$730	\$46,615	(5)	\$5,606
Machinery and equipment, total	\$670,153	\$27,941	\$18,488	\$8,274	\$3,495	\$121,289	(5)	\$33,377
Purchased in new condition	\$557,561	\$24,581	\$5,000	\$7,659	\$1,632	\$102,643	(5)	\$9,477
Purchased in used condition	\$112,792	\$3,360	\$13,488	\$515	\$1,863	\$18,646	(5)	\$26,900
Number of man-hours worked by wage earners	2,692,489	285,907	254,148	663,615	30,466	1,645,556	421,009	7,070
Average hourly earning of wage earners	\$0.80	\$0.42	\$0.68	\$0.79	\$0.45	\$0.68	\$0.70	\$0.51
Horsepower rating of prime movers and electric motors driven by purchased energy, total	80,805	4,172	4,881	6,920	588	21,076	7,235	122
Per wage earner	49.1	25.0	36.0	25.5	54.6	28.8	32.4	50.5
Prime movers	56,690	4,056	3,377	168	576	5,401	7,235	122
Electric motors driven by purchased energy	24,115	156	1,454	8,812	12	15,675		
Horsepower rating of electric motors driven by energy generated by reporting companies	1,145					2,547		
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	143		1,072	8	20	292	(2)	
Bituminous coal (tons of 2,000 pounds)	23,971		10			2,906	(2)	
Fuel oils (barrels of 42 gallons)	46,287		174,530	1,638	27,200	8,094	(3)	
Gasoline and kerosene (gallons)	1,412,764	141,971				45,909	(3)	124
Natural gas (thousands of cubic feet)	1,166					10,000	(3)	
Electric energy consumed (thousands of kw.-hrs.), total	12,185		56	670	5,399	29,265	(10)	
Purchased	11,727		56	670	5,399	26,427	(10)	
Generated by reporting companies	458					1,838	(10)	

² Companies with operations in more than 1 industry are counted only once in the totals.

³ Includes amounts received or due for contract services performed during the year.

⁴ Includes amounts received or due for contract services performed during the year.

⁵ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁶ Represents 1 natural-gasoline plant, 2 mines and 2 mills in the zinc-ore industry, 2 mines in the kaolin and ball-clay industry, 1 diatomite mine, 2 feldspar mines, 1 mine and 1 preparation plant in the graphite industry, 2 mines and 1 preparation plant in the natural-abrasives industry, 2 mines and 2 preparation plants in the rock-salt industry, and 5 mines and 5 preparation plants in the talc and soapstone industry.

⁷ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

⁸ Represents operations of 4 companies in the crude-petroleum and natural-gas industry and 1 common sand and gravel mine.

⁹ Not available.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Albany	Broome	Cattaraugus	Chautauqua	Chemung	Clinton
Number of operating companies ¹	230	12	3	7	3	3	4
Number of mines and quarries	286	15	3	7	3	3	4
Number of preparation plants	217	8	2	5	3	2	4
Value of all products	\$28,194,242	\$547,254	\$165,177	\$137,272	\$60,634	\$71,865	\$1,145,309
Number of persons engaged, total	6,932	131	54	44	20	27	376
Wage earners (average for the year)	5,459	102	24	37	15	22	341
Salaried employees	1,376	25	10	6	1	5	34
Proprietors and firm members	97	4	—	1	4	—	3
Performing manual labor	46	1	—	—	4	—	—
Principal expenses designated below, total	\$18,607,699	\$228,885	\$104,047	\$89,378	\$36,252	\$52,025	\$925,761
Wages	\$7,676,870	\$154,945	\$56,750	\$38,237	\$16,288	\$25,404	\$412,833
Salaries	\$4,810,285	\$80,268	\$26,563	\$12,350	\$5,790	\$11,208	\$29,940
Supplies and materials	\$5,587,505	\$45,056	\$19,112	\$16,049	\$6,396	\$5,363	\$22,721
Fuel	\$1,082,712	\$20,290	\$5,628	\$17,019	\$6,761	\$6,900	\$106,127
Purchased electric energy	\$1,555,613	\$27,521	\$6,994	\$5,723	\$2,997	\$5,150	\$95,104
Contract work	\$126,924	\$2,805	\$9,000	—	—	—	\$1,236
Cost of buildings, machinery, and equipment erected or installed during year	\$1,919,956	\$34,227	\$5,000	\$16,829	\$7,000	\$5,190	\$15,831
Buildings	\$317,218	\$6,000	\$4,000	\$206	—	\$899	\$5,791
Machinery and equipment	\$1,602,738	\$28,227	\$1,000	\$16,623	\$7,000	\$2,291	\$9,720
Horsepower rating of prime movers and electric motors driven by purchased energy, total	245,411	4,977	2,408	2,492	2,019	1,743	10,131
Prime movers	111,847	3,249	1,818	1,428	1,393	1,406	335
Electric motors driven by purchased energy	133,564	1,728	485	1,064	626	337	9,804
Horsepower rating of electric motors driven by energy generated by reporting companies	12,880	—	—	—	—	—	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	42,753	—	—	—	—	—	20,013
Bituminous coal (tons of 2,000 pounds)	64,041	1,285	324	41	173	40	735
Fuel oils (barrels of 42 gallons)	82,114	—	—	—	—	17	4,199
Gasoline and kerosene (gallons)	3,030,467	94,516	26,157	100,117	37,000	48,213	30,189
Natural gas (thousands of cubic feet)	11,166	—	—	10,000	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	119,668	2,153	282	359	167	175	12,701
Purchased	112,058	2,133	282	359	167	175	12,701
Generated by reporting companies	7,609	—	—	—	—	—	—

ITEM	Columbia	Delaware	Dutchess	Erie	Genesee	Greene	Herkimer
Number of operating companies ¹	8	7	8	16	7	6	4
Number of mines and quarries	8	7	8	17	7	6	4
Number of preparation plants	5	2	7	11	6	5	3
Value of all products	\$377,514	\$125,516	\$1,218,188	\$1,445,201	\$717,566	\$260,050	\$142,342
Number of persons engaged, total	111	47	217	394	205	84	40
Wage earners (average for the year)	104	39	192	353	184	79	34
Salaried employees	4	3	21	41	21	5	3
Proprietors and firm members	3	5	4	—	—	—	—
Performing manual labor	—	1	2	—	—	—	—
Principal expenses designated below, total	\$294,515	\$90,347	\$781,566	\$1,013,603	\$527,166	\$177,525	\$105,606
Wages	\$148,546	\$24,489	\$324,941	\$600,276	\$277,548	\$100,668	\$41,197
Salaries	\$10,391	\$4,617	\$46,807	\$131,238	\$71,289	\$8,160	\$11,141
Supplies and materials	\$96,361	\$44,681	\$215,114	\$160,912	\$116,001	\$47,931	\$18,689
Fuel	\$21,620	\$11,316	\$42,151	\$66,537	\$27,137	\$10,595	\$15,247
Purchased electric energy	\$15,297	\$5,054	\$68,109	\$54,640	\$35,391	\$10,171	\$19,365
Contract work	—	—	\$34,294	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$68,723	\$700	\$259,180	\$70,292	\$34,868	\$15,000	\$5,445
Buildings	—	\$450	\$19,929	\$10,482	\$12,717	\$5,000	—
Machinery and equipment	\$68,723	\$250	\$219,251	\$59,810	\$22,151	\$5,000	\$5,445
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,405	1,224	10,426	14,511	10,139	3,384	2,304
Prime movers	3,318	696	4,018	7,935	2,844	1,284	971
Electric motors driven by purchased energy	2,087	528	6,408	6,576	7,295	2,100	1,333
Horsepower rating of electric motors driven by energy generated by reporting companies	654	—	102	285	1,234	1,727	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	—	—	—	—	—	—
Fuel oils (barrels of 42 gallons)	2,220	10	2,569	9,315	3,185	829	1,860
Gasoline and kerosene (gallons)	—	—	54	577	3,612	10	—
Natural gas (thousands of cubic feet)	81,645	26,712	226,662	177,724	47,850	46,328	22,946
Electric energy consumed (thousands of kw.-hrs.), total	2,443	174	4,756	4,750	3,471	2,072	880
Purchased	1,549	174	4,750	4,733	2,661	791	880
Generated by reporting companies	894	—	8	17	780	1,281	—

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY COUNTY: 1920—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Monroe	Montgomery	Nassau	Niagara	Oneida	Onondaga	Ontario
Number of operating companies ¹	7	4	14	5	10	8	4
Number of mines and quarries	10	4	15	5	18	8	4
Number of preparation plants	10	4	14	4	10	6	3
Value of all products	\$706,990	\$182,014	\$2,025,407	\$113,102	\$356,691	\$1,153,273	\$246,666
Number of persons engaged, total	222	46	399	42	114	270	63
Wage earners (average for the year)	186	41	340	38	93	245	52
Salaried employees	33	4	59	3	12	19	9
Proprietors and firm members	5	1	1	1	9	5	2
Performing manual labor	1	1	1	1	4	1	2
Principal expenses designated below, total	\$413,203	\$132,676	\$655,729	\$63,944	\$211,146	\$742,972	\$149,654
Wages	\$247,466	\$57,232	\$507,622	\$37,891	\$115,766	\$374,915	\$64,428
Salaries	\$43,709	\$15,646	\$154,595	\$6,930	\$16,595	\$56,674	\$15,561
Supplies and materials	\$57,471	\$37,504	\$87,555	\$10,469	\$28,098	\$309,513	\$30,595
Fuel	\$17,045	\$9,321	\$56,109	\$3,677	\$23,123	\$44,654	\$15,504
Purchased electric energy	\$47,492	\$12,913	\$58,854	\$2,713	\$21,287	\$57,215	\$25,278
Contract work					\$1,297		
Cost of buildings, machinery, and equipment erected or installed during year	\$52,139	\$6,190	\$219,532	\$275	\$31,519	\$33,067	\$20,946
Buildings	\$1,316	\$1,130	\$5,000	\$275	\$15,066	\$16,042	\$10,000
Machinery and equipment	\$50,823	\$5,010	\$214,532		\$19,452	\$17,025	\$10,946
Horsepower rating of prime movers and electric motors driven by purchased energy, total	12,338	2,402	10,494	1,379	4,601	26,888	2,459
Prime movers	5,900	673	5,428	580	2,944	21,632	553
Electric motors driven by purchased energy	6,438	1,729	5,066	799	1,657	5,256	1,906
Horsepower rating of electric motors driven by energy generated by reporting companies					75		
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	8	10	3		2		
Bituminous coal (tons of 2,000 pounds)	539	105	5,677	298	619	8,375	626
Fuel oils (barrels of 42 gallons)	25	5	1,096			8,011	1,665
Gasoline and kerosene (gallons)	96,457	49,180	232,468	\$7,502	159,598	\$1,190	58,649
Natural gas (thousands of cubic feet)							
Electric energy consumed (thousands of kw.-hrs.), total	3,406	580	2,623	97	1,220	5,472	927
Purchased	3,406	580	2,623	97	1,165	5,472	927
Generated by reporting companies					55		
ITEM	Orange	Orleans	Otsego	Rensselaer	Rockland	St. Lawrence	Saratoga
Number of operating companies ¹	9	5	3	4	6	6	10
Number of mines and quarries	9	5	3	4	7	10	15
Number of preparation plants	8	3	3	2	6	8	15
Value of all products	\$223,907	\$74,948	\$55,523	\$36,061	\$1,637,379	\$3,725,475	\$329,081
Number of persons engaged, total	72	23	16	15	275	535	162
Wage earners (average for the year)	63	20	11	11	243	513	144
Salaried employees	1	1	2	4	32	79	10
Proprietors and firm members	1	2	3	1		2	8
Performing manual labor	1	1	3	1			4
Principal expenses designated below, total	\$124,732	\$32,606	\$29,052	\$32,478	\$671,259	\$1,612,064	\$255,029
Wages	\$75,643	\$21,302	\$11,540	\$15,628	\$424,021	\$628,730	\$146,045
Salaries	\$9,735	\$2,500	\$3,176	\$10,840	\$31,706	\$134,610	\$27,990
Supplies and materials	\$19,168	\$2,041	\$4,978	\$4,150	\$215,373	\$581,965	\$50,812
Fuel	\$6,295	\$4,920	\$6,274	\$3,960	\$47,121	\$35,308	\$14,101
Purchased electric energy	\$15,891	\$1,443	\$3,034		\$92,328	\$170,705	\$6,479
Contract work		\$600			\$2,709	\$750	\$27,602
Cost of buildings, machinery, and equipment erected or installed during year	\$4,752	\$2,233	\$6,730	\$5,000	\$51,950	\$85,018	\$24,946
Buildings	\$802	\$700	\$100	\$1,500	\$3,599	\$30,561	
Machinery and equipment	\$3,950	\$1,533	\$6,630	\$1,500	\$48,351	\$54,457	\$24,946
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,181	585	692	753	13,934	16,597	3,799
Prime movers	1,182	350	514	753	7,404	8,610	2,096
Electric motors driven by purchased energy	999	235	568		6,530	12,787	1,693
Horsepower rating of electric motors driven by energy generated by reporting companies					1,213	375	
Fuels consumed:							
Anthracite (tons of 2,000 pounds)						162	
Bituminous coal (tons of 2,000 pounds)	46	86		250	5,051	2,413	9
Fuel oils (barrels of 42 gallons)			125	393	16,267	1,961	420
Gasoline and kerosene (gallons)	47,294	29,200	\$8,297	\$,250	152,318	106,143	90,904
Natural gas (thousands of cubic feet)							
Electric energy consumed (thousands of kw.-hrs.), total	460	34	106		5,297	24,213	944
Purchased	460	34	106		4,576	23,915	944
Generated by reporting companies					691	300	

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

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NEW YORK, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Schoharie	Suffolk	Tompkins	Ulster	Warren	Washington	Westchester	All other ¹
Number of operating companies ¹	5	15	5	15	5	7	10	28
Number of mines and quarries	5	15	5	12	5	7	11	30
Number of preparation plants	5	15	5	1	5	5	5	27
Value of all products	\$107,184	\$2,506,482	\$456,265	\$169,785	\$567,994	\$261,577	\$1,012,848	\$5,756,018
Number of persons engaged, total	25	356	150	79	67	68	209	1,958
Wage earners (average for the year)	20	302	117	69	48	75	180	1,115
Salaries employees	5	25	11	2	27	5	27	827
Proprietors and firm members			2	8	2	8	2	10
Performing manual labor		8		4		5	1	2
Principal expenses designated below, total	\$65,495	\$1,062,559	\$269,575	\$119,297	\$171,257	\$147,865	\$538,552	\$6,135,769
Wages	\$32,722	\$582,546	\$144,425	\$78,115	\$62,024	\$69,796	\$245,607	\$1,442,241
Salaries	\$12,490	\$22,942	\$45,066	\$9,000	\$58,575	\$15,125	\$68,614	\$5,371,562
Supplies and materials	\$16,755	\$201,965	\$66,822	\$11,698	\$50,865	\$29,599	\$139,141	\$760,161
Fuel	\$9,010	\$109,584	\$11,521	\$8,558	\$15,577	\$6,559	\$20,574	\$225,129
Purchased electric energy	\$2,479	\$75,463	\$1,445	\$12,946	\$6,420	\$26,786	\$59,865	\$299,086
Contract work		\$2,359					\$4,761	\$55,871
Cost of buildings, machinery, and equipment erected or installed during year	\$500	\$146,284	\$19,894	\$5,598	\$29,462	\$377	\$90,927	\$546,980
Buildings		\$2,000			\$7,652			\$154,989
Machinery and equipment	\$500	\$144,284	\$19,894	\$5,598	\$21,810	\$377	\$90,927	\$392,941
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,088	10,005	1,935	1,956	1,870	4,841	9,181	45,661
Prime movers	630	5,398	1,888	1,181	1,556	340	4,152	12,658
Electric motors driven by purchased energy	458	4,605	45	775	512	4,501	5,029	51,023
Horsepower rating of electric motors driven by energy generated by reporting companies	689	675	3,116		188		400	2,150
Fuels consumed:								
Anthracite (tons of 2,000 pounds)			120		10	11	28	22,586
Bituminous coal (tons of 2,000 pounds)	598	6,520	49	655	251	628	275	7,975
Fuel oils (barrels of 42 gallons)	100	22,267	2,880		5,551		1,550	15,690
Gasoline and kerosene (gallons)	56,528	150,516	55,000	59,769	29,160	15,079	124,150	482,080
Natural gas (thousands of cubic feet)								
Electric energy consumed (thousands of kw.-hrs.), total	219	3,775	1,285	545	827	1,819	5,569	27,947
Purchased	108	3,402	55	545	227	1,819	5,518	26,741
Generated by reporting companies	111	373	1,232		600		51	1,206

¹ Companies with operations in more than 1 county are counted only once in the totals.² Allegany, Cayuga, Cortland, Essex, Fulton, Jefferson, Kings, Lewis, Livingston, Madison, Oswego, Putnam, Queens, Schenectady, Steuben, Tioga, Wayne, Wyoming, and central offices in New York County.

NORTH CAROLINA

North Carolina ranked thirty-ninth among the States in value of products of mineral industries in 1939, and thirty-sixth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 68 percent of that for 1929, and the number of wage earners 66 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 126 percent of that for 1919, and the number of wage earners 81 percent.

The granite industry ranked first among mineral industries in the State in 1939, accounting for 49 percent of the value of products and 40 percent of the wage earners. The common sand and gravel industry ranked second on the basis of value

¹ Statements in this text refer to producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported for 1929.

of products with 15 percent of the total, and employed 9 percent of the wage earners. North Carolina ranked first among all States in value of products in the crushed and broken granite, feldspar, and mica industries, accounting for 26, 30, and 52 percent, respectively, of the values of products of these industries. (See reports for these industries.)

Other mineral industries in the State were copper ore; manganese ore; limestone; basalt; sandstone; marble; miscellaneous stone; kaolin and ball clay; common clay and shale; kyanite, andalusite, and dumortierite; natural abrasives; talc and soapstone; and vermiculite. Mineral operations were located in 45 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NORTH CAROLINA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1929	1929	1939	1919
Number of mines and quarries—	111	69	129	79	106
Value of all products—	\$4,257,179	\$4,075,411	\$5,961,259	\$5,444,562	\$2,726,545
Number of persons engaged, total—	1,997	1,899	2,845	1,715	2,104
Wage earners (average for the year)—	1,767	1,695	2,566	1,529	1,690
Salaried employees—	178	178	200	159	128
Proprietors and firm members—	32	28	77	27	90
Performing manual labor—	14	14	(1)	15	36
Principal expenses designated below, total—	\$2,532,160	\$2,422,597	\$4,368,281	\$2,122,747	\$2,362,610
Wages—	\$1,122,626	\$1,056,297	\$2,505,570	\$237,638	\$1,489,062
Salaries—	\$320,600	\$320,600	\$477,566	\$257,416	\$199,612
Supplies and materials—	\$706,749	\$690,596	\$1,180,967	\$635,460	\$467,460
Fuel—	\$180,629	\$157,699	\$225,206	\$115,105	\$215,362
Purchased electric energy—	\$192,605	\$190,644	\$212,574	\$175,837	\$7,539
Contract work—	\$6,971	\$6,971	\$678	\$6,971	\$5,745
Cost of machinery and equipment installed during year—	\$160,786	\$160,286	\$126,155	\$124,760	(1)
Horsepower rating of power equipment, total—	26,285	23,936	22,548	20,032	5,039
Per wage earner—	14.7	14.1	8.7	13.1	2.7
Prime movers—	16,181	13,612	10,544	10,766	4,641
Electric motors driven by purchased energy—	10,104	10,024	11,804	9,266	398
Electric energy consumed (thousands of kw.-hrs.), total—	12,079	11,964	13,900	11,036	(1)
Purchased—	11,667	11,672	13,177	10,946	(1)
Generated by reporting companies—	92	92	773	92	(1)

¹ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NORTH CAROLINA, BY INDUSTRY: 1939

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total	CRUSHED AND BROKEN STONE				Rough-dimension sandstone and marble, and natural abrasives ²	CLAY AND SHALE			Feldspar	Mica	Talc and soapstone	All other ³
		Lime-stone	Granite	Basalt, sandstone, and miscellaneous ⁴	Rough-dimension granite		Common sand and gravel	Kaolin and ball clay	Common clay and shale				
Number of operating companies ¹	85	5	5	5	7	5	8	5	22	15	12	5	5
Number of mines and quarries	111	5	21	2	7	5	9	5	23	17	11	5	5
Number of preparation plants	60	5	22	5	1	1	9	5	—	1	7	5	5
Value of all products ⁵	\$4,257,179	\$127,194	\$1,795,936	\$106,950	\$289,331	\$23,600	\$628,929	\$155,987	\$185,768	\$291,811	\$184,485	\$521,782	\$147,806
Number of persons engaged, total	1,997	119	639	49	151	19	184	154	98	217	130	155	84
Wage earners (average for the year)	1,787	106	574	46	140	16	164	139	94	192	111	136	69
Number receiving pay during pay-roll period ending nearest the 15th of:													
January	1,502	89	511	15	139	6	150	74	80	191	87	98	62
February	1,656	96	597	44	115	6	160	108	81	190	85	108	68
March	1,777	116	596	44	124	19	176	140	96	192	89	120	65
April	1,787	154	557	46	124	23	161	184	105	186	102	102	66
May	1,795	118	547	47	141	20	157	174	102	189	109	121	66
June	1,761	130	540	47	141	19	161	105	99	175	117	145	66
July	1,779	115	600	47	155	22	172	54	100	186	125	148	77
August	1,822	115	592	47	157	19	164	105	100	191	137	151	44
September	1,948	119	597	49	154	19	166	187	97	189	133	159	80
October	1,989	113	622	55	155	14	169	188	99	205	115	176	80
November	1,885	62	571	55	154	13	167	204	95	206	119	157	82
December	1,744	62	530	55	159	15	165	147	80	204	114	155	80
Salaried employees	179	10	64	3	8	1	19	15	—	14	12	17	15
Proprietors and firm members	32	5	1	—	5	2	1	—	4	11	7	—	—
Performing manual labor	14	2	—	—	5	—	1	—	—	5	5	—	—
Principal expenses designated below, total	\$2,532,180	\$72,927	\$1,075,684	\$68,195	\$152,556	\$13,382	\$299,850	\$148,405	\$109,585	\$160,908	\$96,919	\$208,618	\$127,178
Wages	\$1,122,628	\$42,412	\$579,568	\$38,212	\$91,417	\$8,654	\$118,559	\$72,774	\$66,531	\$97,525	\$55,528	\$89,061	\$62,792
Salaries	\$320,600	\$9,172	\$125,991	\$4,568	\$19,800	\$1,118	\$65,182	\$20,744	\$12,003	\$12,003	\$9,161	\$20,353	\$27,528
Supplies and materials	\$708,749	\$11,597	\$424,699	\$20,939	\$28,516	\$752	\$56,906	\$16,662	\$18,565	\$39,908	\$14,170	\$57,799	\$18,768
Fuel	\$180,623	\$6,511	\$47,455	\$4,456	\$7,201	\$160	\$44,596	\$29,132	\$22,930	\$4,067	\$4,420	\$6,292	\$5,908
Purchased electric energy	\$182,803	\$5,775	\$99,096	\$200	\$6,102	\$2,498	\$16,807	\$5,967	\$1,959	\$5,560	\$15,640	\$25,153	\$15,876
Contract work	\$6,971	—	—	—	—	—	—	\$3,126	—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$168,991	\$8,320	\$47,900	\$22,900	\$7,925	—	\$56,586	\$12,186	\$1,500	\$1,700	\$5,471	\$10,462	\$14,219
Buildings	\$8,205	—	\$900	\$2,100	\$5	—	\$1,058	—	\$800	—	\$1,200	\$1,122	\$1,000
Machinery and equipment, total	\$160,786	\$8,320	\$47,900	\$20,800	\$7,900	—	\$55,528	\$12,186	\$500	\$1,700	\$4,271	\$9,340	\$13,219
Purchased in new condition	\$124,547	\$8,320	\$26,000	\$20,800	\$7,900	—	\$55,528	\$6,588	\$500	\$600	\$5,121	\$5,971	\$9,219
Purchased in used condition	\$36,439	—	\$21,900	—	—	—	—	\$5,800	—	\$1,100	\$1,150	\$5,589	\$4,000
Number of man-hours worked by wage earners	5,719,565	182,800	1,419,829	116,641	267,237	26,592	374,739	229,590	194,908	352,890	199,704	227,712	125,321
Average hourly earning of wage earners	\$0.30	\$0.23	\$0.27	\$0.53	\$0.34	\$0.51	\$0.32	\$0.32	\$0.34	\$0.28	\$0.28	\$0.39	\$0.50
Horsepower rating of prime movers and electric motors driven by purchased energy, total	26,265	945	8,190	322	3,825	164	5,904	1,411	2,349	1,574	843	1,511	1,247
Per wage earner	14.7	5.9	14.8	7.0	27.5	10.2	23.8	10.2	25.0	8.2	7.6	11.1	18.1
Prime movers	18,161	693	3,375	250	3,022	77	3,146	1,100	2,269	1,329	181	479	280
Electric motors driven by purchased energy	10,104	252	4,815	72	803	87	758	311	80	245	662	1,032	967
Horsepower rating of electric motors driven by energy generated by reporting companies	805	—	—	—	—	—	—	655	—	—	—	150	—
Fuels consumed: ⁶													
Anthracite (tons of 2,000 pounds)	2,662	—	81	—	8	—	1,900	—	185	—	—	480	—
Bituminous coal (tons of 2,000 pounds)	15,750	922	897	—	428	20	1,401	—	185	—	—	—	—
Fuel oils (barrels of 42 gallons)	15,966	—	6,125	448	555	—	5,746	—	2,786	21	298	—	231
Gasoline and kerosene (gallons)	474,614	8,900	176,809	14,800	13,842	200	141,543	18,654	47,915	22,178	9,477	11,870	8,526
Electric energy consumed (thousands of kw.-hrs.), total	12,079	187	6,196	12	424	217	925	356	115	146	750	1,897	840
Purchased	11,987	187	6,196	12	424	217	925	356	115	146	750	1,897	840
Generated by reporting companies	92	—	—	—	—	—	—	—	—	—	—	11	—

¹ Represents 1 quarry and 1 crushing plant in the crushed and broken basalt industry, 1 crushing plant in the crushed and broken sandstone industry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.² Represents 1 rough-dimension sandstone quarry, 1 rough-dimension marble quarry, and 1 mine and 1 preparation plant in the natural-abrasives industry.³ Represents 1 copper-ore mine, 1 manganese-ore mine, 1 mine and 1 preparation plant in the kyanite, andalusite, and dumortierite industry, and 2 mines and 2 preparation plants in the vermiculite industry.⁴ Companies with operations in more than 1 industry are counted only once in the totals.⁵ Includes amounts received or due for contract services performed during the year.⁶ No natural gas was reported consumed.

NORTH CAROLINA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NORTH CAROLINA, BY COUNTY: 1939

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	State	Anson	Avery	Macon	Madison	Mitchell	Moore	Rowan	Rutherford	Swain	Yancey	All other ¹
Number of operating companies ²	85	3	5	5	5	13	3	9	3	3	10	58
Number of mines and quarries	111	2	4	5	5	16	3	9	3	3	11	52
Number of preparation plants	60	3	1	3	3	7	3	5	2	1	7	25
Value of all products	\$4,257,179	\$352,413	\$78,292	\$95,871	\$52,653	\$593,878	\$259,310	\$612,384	\$24,799	\$153,940	\$157,237	\$2,098,362
Number of persons engaged, total	1,997	95	73	33	55	286	88	222	10	106	148	881
Wage earners (average for the year)	1,787	86	61	29	49	260	79	206	9	90	128	790
Salaried employees	178	9	12	3	6	18	9	10	1	15	13	83
Proprietors and firm members	52	—	—	1	—	8	—	6	1	1	7	8
Performing manual labor	14	—	—	—	—	4	—	3	—	—	3	3
Principal expenses designated below, total	\$2,532,180	\$156,753	\$64,577	\$27,047	\$45,532	\$231,891	\$157,929	\$330,747	\$9,655	\$111,578	\$118,957	\$1,260,404
Wages	\$1,122,628	\$67,954	\$34,970	\$17,286	\$24,817	\$140,723	\$61,011	\$156,494	\$6,622	\$37,659	\$63,032	\$631,254
Salaries	\$320,600	\$29,964	\$14,397	\$1,026	\$11,965	\$19,059	\$17,551	\$25,300	—	\$24,047	\$16,315	\$161,296
Supplies and materials	\$708,749	\$31,485	\$7,818	\$3,539	\$5,550	\$45,418	\$54,345	\$128,963	\$560	\$20,106	\$12,845	\$397,120
Fuel	\$180,629	\$17,568	\$3,760	\$5,896	\$1,430	\$28,277	\$6,851	\$11,311	\$1,433	\$1,224	\$8,953	\$64,756
Purchased electric energy	\$192,605	\$9,862	\$4,132	—	\$2,250	\$7,457	\$18,671	\$28,779	—	\$8,542	\$17,112	\$65,998
Contract work	\$6,971	—	—	—	—	\$6,971	—	—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$168,991	\$22,205	—	\$1,680	\$2,300	\$7,968	\$4,991	\$9,925	\$400	—	\$25,960	\$95,644
Buildings	\$8,205	—	—	—	\$500	—	—	\$925	—	—	\$3,200	\$4,580
Machinery and equipment	\$160,786	\$22,205	—	\$1,680	\$1,800	\$7,968	\$4,991	\$9,000	\$400	—	\$21,760	\$91,064
Horsepower rating of prime movers and electric motors driven by purchased energy, total	26,285	1,960	581	515	307	2,494	1,238	2,561	175	767	1,556	14,351
Prime movers	16,181	1,370	149	515	75	2,084	988	789	175	205	556	9,878
Electric motors driven by purchased energy	10,104	590	233	—	232	410	650	1,772	—	562	1,000	4,473
Horsepower rating of electric motors driven by energy generated by reporting companies	805	—	—	—	—	480	150	—	—	—	175	—
Fuels consumed: ³												
Anthracite (tons of 2,000 pounds)	2,662	1,900	—	—	—	—	480	8	81	—	—	193
Bituminous coal (tons of 2,000 pounds)	13,760	601	357	—	300	5,251	—	500	36	208	1,465	5,017
Fuel oils (barrels of 42 gallons)	15,965	1,081	—	381	—	188	4,370	128	4,020	—	243	2,587
Gasoline and kerosene (gallons)	474,614	8,720	12,114	18,300	3,750	38,863	14,312	48,785	825	1,600	7,896	319,447
Electric energy consumed (thousands of kw.-hrs.), total	12,079	606	178	—	104	439	1,523	1,695	—	603	672	6,059
Purchased	11,987	606	178	—	104	367	1,512	1,695	—	603	663	5,059
Generated by reporting companies	92	—	—	—	—	72	11	—	—	—	9	100

¹ Alamance, Alleghany, Buncombe, Burke, Catawba, Chatham, Cherokee, Cleveland, Columbus, Craven, Cumberland, Davidson, Forsyth, Gaston, Guilford, Halifax, Harnett, Iredell, Jones, Lincoln, McDowell, Montgomery, Nash, Randolph, Rockingham, Stanly, Stokes, Surry, Transylvania, Vance, Wake, Wayne, and Yadkin.

² Companies with operations in more than 1 county are counted only once in the totals.

³ No natural gas was reported consumed.

NORTH DAKOTA

North Dakota ranked forty-second among the States in value of products of mineral industries in 1939, and forty-first in number of wage earners employed.¹ (See table 2, General Summary.) The lignite industry ranked first among the mineral industries in the State in 1939, and is the only industry in the State for which separate statistics are available for 1929 and 1919. (See table 1.) The value of products reported for the lignite industry in 1939 was 76 percent of that in 1929, and 127 percent of that in 1919. The number of wage earners

employed in 1939 was 86 percent of the number reported in 1929, and 111 percent of the 1919 figure. Horsepower rating of power equipment at lignite operations in 1939 was 137 percent of that in 1929, and about seven times that in 1919.

Lignite operations in the State reported 70 percent of the total tonnage of lignite produced in the industry in the United States. (See report for this industry.) Other mineral industries in the State were common sand and gravel and fire clay. (See table 2.) Mineral operations were located in 20 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for information regarding contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN NORTH DAKOTA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939, 1929, AND 1919 (Lignite industries)		
		1939	1929	1919
Number of mines and quarries-----	106	102	115	79
Value of all products-----	\$2,502,954	\$2,445,808	\$3,206,931	\$1,927,504
Number of persons engaged, total-----	1,078	1,056	1,175	939
Wage earners (average for the year)-----	874	859	994	774
Salaried employees-----	86	82	87	90
Proprietors and firm members-----	118	115	114	75
Performing manual labor-----	97	96	(1)	23
Principal expenses designated below, total-----	\$1,517,901	\$1,480,118	\$1,931,997	\$1,540,849
Wages-----	\$870,615	\$855,920	\$1,289,376	\$1,029,126
Salaries-----	\$170,811	\$161,118	\$187,078	\$159,646
Supplies and materials-----	\$274,165	\$268,926	\$349,451	\$253,683
Fuel-----	\$78,852	\$87,059	\$49,615	\$32,635
Purchased electric energy-----	\$123,874	\$121,511	\$87,931	\$4,841
Contract work-----	\$5,584	\$5,584	\$3,746	\$30,750
Cost of machinery and equipment installed during year-----	\$58,327	\$52,046	\$30,478	(1)
Horsepower rating of power equipment, total-----	15,251	14,144	10,310	2,087
Per wage earner-----	17.4	16.5	10.4	2.6
Prime movers-----	7,628	6,771	5,018	1,763
Electric motors driven by purchased energy-----	7,623	7,373	5,292	284
Electric energy consumed (thousands of kw.-hrs.), total-----	5,442	5,379	1,761	(1)
Purchased-----	5,313	5,250	1,727	(1)
Generated by reporting companies-----	129	129	24	(1)

1 Not available.

NORTH DAKOTA

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NORTH DAKOTA, BY INDUSTRY: 1939

(For producing operations only)¹

ITEM	Total	Lignite	Common sand and gravel and fire clay ²
Number of operating companies ³	106	101	4
Number of mines and quarries	106	102	4
Number of preparation plants	4		4
Value of all products ⁴	\$2,502,954	\$2,445,908	\$57,146
Number of persons engaged, total	1,078	1,058	22
Wage earners (average for the year)	874	859	15
Number receiving pay during pay-roll period ending nearest the 15th of:			
January	1,148	1,159	9
February	1,085	1,078	9
March	899	888	11
April	519	505	16
May	487	468	19
June	518	494	22
July	490	458	22
August	581	565	16
September	869	851	18
October	1,312	1,297	15
November	1,550	1,537	13
December	1,240	1,234	12
Salaried employees	86	82	4
Proprietors and firm members	118	115	3
Performing manual labor	97	96	1
Principal expenses designated below, total	\$1,517,901	\$1,480,118	\$37,783
Wages	\$870,815	\$855,980	\$14,835
Salaries	\$170,811	\$161,118	\$9,693
Supplies and materials	\$274,165	\$268,328	\$5,837
Fuel	\$72,882	\$67,069	\$5,813
Purchased electric energy	\$123,874	\$121,311	\$2,563
Contract	\$5,584	\$5,584	
Cost of buildings, machinery, and equipment erected or installed during year	\$72,315	\$67,179	\$5,136
Buildings	\$15,988	\$15,133	\$855
Machinery and equipment, total	\$56,327	\$52,046	\$4,281
Purchased in new condition	\$36,148	\$32,123	\$4,025
Purchased in used condition	\$20,179	\$19,923	\$256
Number of man-hours worked by wage earners	1,723,645	1,689,631	34,314
Average hourly earning of wage earners	\$0.51	\$0.51	\$0.45
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,251	14,144	1,107
Per wage earner	17.4	16.5	75.8
Prime movers	7,623	6,771	857
Electric motors driven by purchased energy	7,628	7,373	250
Horsepower rating of electric motors driven by energy generated by reporting companies	448	448	
Fuels consumed: ⁵			
Bituminous coal (tons of 2,000 pounds)	20,865	20,865	
Fuel oils (barrels of 42 gallons)	403	279	124
Gasoline and kerosene (gallons)	379,546	343,680	35,866
Electric energy consumed (thousands of kw.-hrs.), total	5,442	5,379	63
Purchased	5,313	5,250	63
Generated by reporting companies	129	129	

¹ 1 contract-service operation and nonproducing operations of 1 company in the crude-petroleum and natural-gas industry were reported, but are not covered in the table to avoid disclosure of confidential information.

² Represents 3 mines and 3 preparation plants in the common sand and gravel industry, and 1 mine and 1 preparation plant in the fire-clay industry.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ No anthracite or natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN NORTH DAKOTA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Adams	Burke	Burleigh	Divide	Golden Valley	Grant
Number of operating companies ¹	105	8	5	5	4	3	5
Number of mines and quarries	106	7	6	5	4	3	5
Number of preparation plants	4						
Value of all products	\$2,502,954	\$47,908	\$292,806	\$284,686	\$201,158	\$5,388	\$26,066
Number of persons engaged, total	1,078	45	78	79	63	5	21
Wage earners (average for the year)	874	57	63	62	53	2	11
Salaried employees	86	1	7	12	6		
Proprietors and firm members	119	7	6	5	4	3	10
Performing manual labor	87	7	3	3	4	3	8
Principal expenses designated below, total	\$1,517,901	\$33,284	\$133,573	\$141,839	\$103,985	\$1,781	\$12,202
Wages	\$870,615	\$25,298	\$87,248	\$86,231	\$56,801	\$1,009	\$5,411
Salaries	\$170,611	\$1,075	\$9,358	\$21,027	\$16,440		
Supplies and materials	\$274,185	\$5,558	\$28,453	\$25,626	\$17,158	\$738	\$5,800
Fuel	\$72,852	\$1,353	\$6,277	\$4,088	\$5,469	\$56	\$1,591
Purchased electric energy	\$128,574		\$18,008	\$24,867	\$8,118		
Contract work	\$5,584		\$4,249				
Cost of buildings, machinery, and equipment erected or installed during year	\$72,315	\$6,816	\$9,565	\$2,055	\$1,597		\$1,276
Buildings	\$15,988	\$270	\$2,634	\$1,550			\$380
Machinery and equipment	\$56,327	\$6,546	\$3,931	\$505	\$1,597		\$896
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,251	262	2,617	1,590	895	3	255
Prime movers	7,628	262	1,367	295	385	3	255
Electric motors driven by purchased energy	7,623		1,250	1,095	510		
Horsepower rating of electric motors driven by energy generated by reporting companies	446	121				2	23
Fuels consumed: *							
Bituminous coal (tons of 2,000 pounds)	20,665	212	340	125	5,413		1,500
Fuel oils (barrels of 42 gallons)	403	91	189		19		
Gasoline and kerosene (gallons)	379,546	4,275	48,617	30,634	17,410	200	1,623
Electric energy consumed (thousands of kw.-hrs.), total	5,442	1	764	978	292	3	14
Purchased	5,313		764	978	292		
Generated by reporting companies	129	1				3	14

ITEM	Hettinger	McLean	Mercer	Morton	Mountrail	Stark	Ward	All others
Number of operating companies ¹	4	10	6	7	3	5	23	19
Number of mines and quarries	4	10	6	7	3	4	23	19
Number of preparation plants				2			1	1
Value of all products	\$11,586	\$174,348	\$645,571	\$56,402	\$14,458	\$93,812	\$569,102	\$79,478
Number of persons engaged, total	12	110	262	35	15	62	233	60
Wage earners (average for the year)	8	90	247	26	10	55	174	34
Salaried employees		6	12	3		4	33	2
Proprietors and firm members	4	14	3	6	5	3	25	22
Performing manual labor	3	10	3	6	4	2	21	20
Principal expenses designated below, total	\$6,136	\$140,698	\$417,968	\$40,395	\$9,076	\$72,724	\$357,751	\$46,480
Wages	\$3,752	\$94,881	\$275,823	\$20,088	\$6,762	\$53,543	\$188,641	\$25,127
Salaries		\$10,500	\$25,602	\$9,450		\$4,439	\$72,708	\$1,212
Supplies and materials	\$1,528	\$14,978	\$74,612	\$9,655	\$1,250	\$10,103	\$70,434	\$15,891
Fuel	\$858	\$17,945	\$12,132	\$3,587	\$1,064	\$1,376	\$9,520	\$5,560
Purchased electric energy		\$2,593	\$28,942	\$1,615		\$5,263	\$36,448	\$220
Contract work			\$857					\$476
Cost of buildings, machinery, and equipment erected or installed during year		\$8,685	\$22,552			\$2,008	\$15,048	\$5,714
Buildings		\$4,480	\$200			\$450	\$5,090	\$894
Machinery and equipment		\$4,225	\$22,552			\$1,558	\$9,958	\$4,780
Horsepower rating of prime movers and electric motors driven by purchased energy, total	100	868	4,112	646	268	260	2,772	605
Prime movers	100	868	1,515	716	268	120	889	593
Electric motors driven by purchased energy			2,597	130		140	1,883	18
Horsepower rating of electric motors driven by energy generated by reporting companies		115		187				
Fuels consumed: *								
Bituminous coal (tons of 2,000 pounds)	125	4,575	2,770	3,215	100	840	1,222	228
Fuel oils (barrels of 42 gallons)				124				
Gasoline and kerosene (gallons)	4,500	139,410	31,308	8,729	6,100	2,740	55,330	29,670
Electric energy consumed (thousands of kw.-hrs.), total		214	1,435	69		93	1,574	5
Purchased		123	1,435	49		93	1,574	5
Generated by reporting companies		91		20				

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

* No anthracite or natural gas was reported consumed.

* Billings, Bowman, Dunn, Grand Forks, McKenzie, Oliver, and Williams.

OHIO

Ohio ranked twelfth among the States in value of products of mineral industries in 1939, and eighth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 87 percent of that in 1929, and the number of wage earners 82 percent. (See table 1.) For industries surveyed in both 1939 and 1919, the 1939 value of products was 41 percent of that in 1919, and the number of wage earners 46 percent. Differences between totals for 1929 and 1939 are accounted for chiefly by decreases in the bituminous-coal and limestone industries; the declines between 1919 and 1939 largely reflect decreased production of bituminous coal and crude petroleum and natural gas in the State. Total horsepower rating of power equipment at mineral operations in 1939 was 126 percent of that in 1929, but 85 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for more than half the total value of products and 71 percent of the total

number of wage earners employed. (See table 2.) The crude-petroleum and natural-gas industry ranked second and the crushed and broken limestone industry third in value of products; the latter industry, however, employed the larger number of wage earners. The common sand and gravel industry ranked fourth in the State in both value of products and number of wage earners employed. These four industries accounted for more than 90 percent of the value of products and wage earners employed in the State. Ohio ranked first among the States in value of products in the rough-dimension sandstone and common clay and shale industries and second in the crushed and broken limestone, common sand and gravel, fire-clay, and natural-abrasives industries. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, limestone (rough dimension), miscellaneous stone, glass sand, foundry sand, gypsum, native asphalt and bitumens, and peat. Mineral operations (other than oil and gas wells) were located in 84 counties; principal statistics by county are shown in table 3, and the number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN OHIO: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and the natural-gasoline industries)		1939 AND 1919 (Excluding the common clay and shale, sand and gravel, and peat industries)	
		1929 ¹	1929	1939 ²	1919
Number of mines and quarries—	1,102	1,014	864	861	1,064
Number of oil and gas wells producing at end of year—	15,011	—	—	15,011	35,440
Number of natural-gasoline plants—	12	—	—	12	53
Value of all products—	\$63,221,022	\$52,065,576	\$60,095,705	\$54,510,470	\$131,425,938
Number of persons engaged, total—	28,028	24,723	28,646	25,649	56,756
Wage earners (average for the year)—	24,578	22,217	27,001	22,549	49,298
Salaried employees—	2,351	1,614	1,832	2,095	4,129
Proprietors and firm members—	1,098	892	593	1,007	3,309
Performing manual labor—	686	614	(3)	662	509
Principal expenses designated below, total—	\$45,572,509	\$39,269,118	\$45,118,554	\$40,599,436	\$90,329,621
Wages—	\$28,554,285	\$25,526,236	\$31,550,790	\$26,007,807	\$58,109,904
Salaries—	\$5,040,655	\$5,569,420	\$5,191,066	\$4,599,886	\$8,042,224
Supplies and materials—	\$7,000,865	\$6,350,617	\$6,970,607	\$5,960,250	\$16,116,949
Fuel—	\$1,704,191	\$1,519,707	\$1,056,525	\$1,274,941	\$2,949,460
Purchased electric energy—	\$2,047,755	\$1,999,960	\$2,577,875	\$1,614,250	\$1,191,808
Contract work—	\$1,444,780	\$553,278	\$169,436	\$1,842,424	\$5,329,476
Cost of machinery and equipment installed during year—	\$3,996,032	\$3,522,978	\$2,201,751	\$3,599,684	(3)
Horsepower rating of power equipment, total—	358,401	266,505	226,121	286,532	357,611
Per wage earner—	14.6	12.9	8.4	12.7	6.8
Prime movers—	197,132	127,919	85,510	161,302	272,716
Electric motors driven by purchased energy—	161,209	159,906	144,611	125,230	* 64,695
Electric energy consumed (thousands of kw.-hrs.), total—	147,667	144,541	125,328	127,551	(3)
Purchased—	118,573	116,294	125,196	100,175	(3)
Generated by reporting companies—	29,094	28,247	8,132	27,376	(3)

¹ Includes 2 mines and 2 preparation plants in the peat industry. This industry was not included in the census of mineral industries for 1929.

² Includes 21 limestone mines and quarries, with products valued at \$3,417,315, operated in conjunction with cement and lime plants. Such mines and quarries were not included in the census of mineral industries for 1919.

³ Not available.

* Includes 120 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OHIO, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Fuels			Stone		
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Crushed and broken limestone	Rough- dimension sandstone	Other ^a
Number of operating companies ¹	1,289	1,169	227	7	614	113	6	4
Number of mines and quarries	1,106	1,102			556	159	7	4
Number of oil and gas wells producing on December 31, 1939	15,011	15,011	15,011					
Number of preparation plants	536	534		12	7	154		2
Value of all products ²	\$64,071,159	\$63,221,022	\$9,421,588	\$367,956	\$55,542,461	\$9,092,275	\$528,891	\$34,653
Number of persons engaged, total	28,495	28,028	2,597	92	19,113	2,730	205	21
Wage earners (average for the year)	24,948	24,579	1,685	82	17,385	2,439	197	17
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	27,266	27,010	1,661	79	21,058	1,783	167	9
February	27,907	27,648	1,671	79	21,616	1,829	160	10
March	28,137	27,875	1,665	80	21,417	2,021	199	17
April	12,285	12,011	1,665	80	5,196	2,251	218	18
May	18,724	18,563	1,696	79	11,165	2,480	212	17
June	23,285	22,870	1,692	82	15,377	2,577	214	21
July	23,261	22,823	1,695	82	15,207	2,673	208	21
August	24,750	24,354	1,751	82	16,393	2,856	220	21
September	26,288	25,967	1,753	82	17,783	2,924	210	19
October	29,409	28,986	1,712	85	21,001	2,859	200	20
November	29,750	29,261	1,666	80	21,550	2,758	181	17
December	28,545	27,902	1,632	94	20,871	2,314	181	18
Salaries employees	2,395	2,351	715	10	1,018	209	4	3
Proprietors and firm members	1,152	1,098	199		710	82	2	1
Performing manual labor	725	696	81		542	54	1	
Principal expenses designated below, total	\$46,168,137	\$45,572,509	\$4,990,024	\$279,055	\$28,112,515	\$5,462,545	\$334,684	\$21,586
Wages	\$38,749,411	\$38,534,285	\$1,956,557	\$125,986	\$20,476,278	\$2,503,825	\$183,609	\$14,545
Salaries	\$5,102,416	\$5,040,653	\$1,425,737	\$19,557	\$2,165,466	\$464,752	\$7,584	\$3,702
Supplies and materials	\$7,054,962	\$7,000,865	\$437,050	\$60,170	\$5,716,609	\$1,599,579	\$114,415	\$1,082
Fuel	\$1,737,356	\$1,704,191	\$501,120	\$46,559	\$422,587	\$464,305	\$12,684	\$1,698
Purchased electric energy	\$2,051,445	\$2,047,735	\$168	\$80	\$1,076,327	\$495,099	\$16,592	
Contract work	\$1,472,568	\$1,444,780	\$867,592	\$26,721	\$257,228	\$156,985		\$610
Cost of buildings, machinery, and equipment erected or installed during year	\$4,627,214	\$4,405,858	\$806,086	\$56,745	\$2,543,728	\$507,095	\$13,954	\$100
Buildings	\$432,705	\$417,606	\$37,400	\$2,554	\$236,216	\$100,574		
Machinery and equipment, total	\$4,117,674	\$3,988,252	\$568,686	\$54,191	\$2,307,512	\$406,521	\$13,954	\$100
Purchased in new condition	\$3,248,570	\$3,116,728	\$468,577	\$54,191	\$1,825,092	\$321,109	\$6,232	
Purchased in used condition	\$869,304	\$869,304	\$100,009		\$482,420	\$85,412	\$7,722	\$100
Number of man-hours worked by wage earners	41,812,022	40,750,620	2,867,780	161,626	26,840,232	5,082,975	359,162	21,184
Average hourly earning of wage earners	\$0.70	\$0.70	\$0.68	\$0.78	\$0.76	\$0.49	\$0.51	\$0.47
Horsepower rating of prime movers and electric motors driven by purchased energy, total	367,123	358,401	60,385	3,092	130,675	81,196	4,102	372
Per wage earner	14.7	14.6	35.8	57.7	7.5	33.3	20.8	21.9
Prime movers	204,656	197,132	60,382	3,089	53,941	36,792	2,156	372
Electric motors driven by purchased energy	162,467	161,269	1	5	76,734	44,404	1,946	
Horsepower rating of electric motors driven by energy generated by reporting companies	33,961	33,961	1		20,766	8,340	70	50
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	2,350	2,350	15			1,162	16	
Bituminous coal (tons of 2,000 pounds)	216,041	216,041	114		98,236	70,615	3,221	75
Fuel oils (barrels of 42 gallons)	103,054	102,770	550		52,987	40,407		165
Gasoline and kerosene (gallons)	4,892,924	4,869,977	305,520		1,256,643	1,214,123	8,378	6,564
Natural gas (thousands of cubic feet)	1,870,788	1,870,618	1,555,701	212,543	6,255	6,254		
Electric energy consumed (thousands of kw.-hrs.), total	147,809	147,667	39	37	89,020	32,481	835	3
Purchased	118,715	118,672	4	3	69,005	26,442	611	
Generated by reporting companies	29,094	29,094	35	34	20,015	6,039	24	3

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

² Represents operations of 7 companies in the crude-petroleum and natural-gas industry, 2 bituminous-coal mines, and 2 quarries and 2 crushing plants in the crushed and broken limestone industry.

³ 2 mines and 2 preparation plants in the glass-sand industry are included under "All other" to avoid disclosure of confidential information.

⁴ Represents 2 mines and 2 preparation plants in the glass-sand industry, 2 gypsum mines, 1 mine and 1 preparation plant in the native asphalt and bitumens industry, and 2 mines and 2 preparation plants in the peat industry.

⁵ Represents 2 quarries and 2 crushing plants in the crushed and broken miscellaneous stone industry, and 2 rough-dimension limestone quarries.

⁶ Companies with operations in more than 1 industry are counted only once in the totals.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OHIO, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract-service operations ¹	Nonproducing operations ²
	Sand and gravel ³		Clay and shale		Natural abrasives	All other ⁴		
	Common sand and gravel	Foundry sand	Fire clay	Common clay and shale				
Number of operating companies ⁵	110	14	36	75	4	7	53	11
Number of mines and quarries	180	19	46	88	6	7		4
Number of oil and gas wells producing on December 31, 1939								
Number of preparation plants	131	15	11	12	5	5		2
Value of all products ⁷	\$6,142,642	\$401,733	\$1,175,976	\$1,567,802	\$290,614	\$1,054,253	\$950,137	
Number of persons engaged, total	1,406	201	590	616	132	251	271	96
Wage earners (average for the year)	1,141	165	531	595	123	219	300	69
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	863	103	505	530	79	135	238	19
February	889	106	467	551	68	202	244	15
March	999	152	482	563	100	198	249	15
April	1,118	150	501	491	123	202	221	53
May	1,166	158	490	569	132	211	265	76
June	1,240	154	528	628	134	223	226	89
July	1,239	167	549	621	136	227	244	94
August	1,274	179	557	633	142	225	251	75
September	1,507	207	571	637	145	229	252	69
October	1,512	226	570	640	150	233	242	81
November	1,206	228	578	635	137	245	271	116
December	1,097	176	578	599	108	237	213	130
Salaried employees	192	27	38	14	7	30	24	20
Proprietors and firm members	75	9	11	7	2	2	47	7
Performing manual labor	31	1	4	1		1	23	2
Principal expenses designated below, total	\$3,154,169	\$252,512	\$946,604	\$1,034,314	\$181,413	\$711,937	* \$444,753	\$180,875
Wages	\$1,509,805	\$122,049	\$515,164	\$723,706	\$95,703	\$305,260	\$348,432	\$66,664
Salaries	\$450,409	\$64,793	\$95,097	\$25,939	\$19,575	\$106,994	\$40,415	\$11,232
Supplies and materials	\$684,695	\$36,662	\$144,531	\$173,128	\$32,728	\$179,856	* \$17,487	\$26,680
Fuel	\$317,595	\$14,760	\$15,899	\$45,825	\$11,492	\$51,943	* \$29,474	\$5,671
Purchased electric energy	\$358,930	\$10,547	\$25,735	\$48,527	\$1,941	\$38,489	(11)	\$3,710
Contract work	\$54,735	\$3,507	\$32,708	\$17,189		\$27,505	(11)	\$27,768
Cost of buildings, machinery, and equipment erected or installed during year	\$488,768	\$24,503	\$20,339	\$61,182	\$2,705	\$96,633	* \$26,535	\$194,541
Buildings	\$35,340	\$3,780	\$805	\$903		\$232	(11)	\$64,899
Machinery and equipment, total	\$453,428	\$20,723	\$19,534	\$60,277	\$2,705	\$96,401	(11)	\$131,642
Purchased in new condition	\$296,762	\$17,748	\$13,555	\$32,276	\$2,705	\$96,401	(11)	\$131,642
Purchased in used condition	\$156,666	\$2,975	\$5,999	\$28,001			(11)	
Number of man-hours worked by wage earners	2,470,216	252,667	845,665	1,097,310	246,437	474,136	418,564	142,838
Average hourly earning of wage earners	\$0.53	\$0.46	\$0.61	\$0.66	\$0.39	\$0.64	\$0.83	\$0.47
Horsepower rating of prime movers and electric motors driven by purchased energy, total	56,115	4,222	5,195	8,421	1,120	3,508	6,915	1,807
Per wage earner	49.2	25.6	3.8	14.2	8.1	15.0	23.0	26.2
Prime movers	25,623	2,878	3,214	5,302	1,002	1,961	6,915	549
Electric motors driven by purchased energy	30,492	1,344	1,981	2,619	118	1,547		1,258
Horsepower rating of electric motors driven by energy generated by reporting companies	1,597		284	1,808		1,230		
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	1,157						(11)	
Bituminous coal (tons of 2,000 pounds)	24,521	1,208	3,076	6,902	3,370	4,503	(11)	
Fuel oils (barrels of 42 gallons)	8,490	225	25	73		30	(11)	
Gasoline and kerosene (gallons)	1,188,191	59,681	57,678	197,020	10,687	65,512	(11)	254
Natural gas (thousands of cubic feet)	6,459	2,570		65	2,567	78,224	(11)	22,947
Electric energy consumed (thousands of kw.-hrs.), total	16,866	304	1,133	3,250	72	3,627	(11)	142
Purchased	16,118	304	1,033	2,282	72	2,499	(11)	142
Generated by reporting companies	748		100	968		1,128	(11)	

¹ Includes amounts received or due for contract services performed during the year.² Includes statistics for central-office employees in the iron-ore, kaolin and ball-clay, and bentonite industries and at central offices not classified by industry.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy, and were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.⁴ Includes statistics for contract-service operations.⁵ Not available.

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OHIO, BY COUNTY: 1939
(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Allen	Athens	Auglaise	Belmont	Butler	Carroll	Clark	Clermont	Columbiana
Number of operating companies ¹	970	9	29	4	40	10	29	5	6	53
Number of mines and quarries	1,102	9	29	5	44	10	32	3	6	64
Number of preparation plants	334	9	6	5	3	8	2	3	6	7
Value of all products	\$33,799,434	\$241,909	\$3,037,549	\$96,265	\$8,124,796	\$232,174	\$920,452	\$60,255	\$220,620	\$1,497,339
Number of persons engaged, total	25,451	77	2,203	29	4,957	60	481	25	62	644
Wage earners (average for the year)	22,994	59	2,127	23	4,739	44	426	21	54	592
Salaried employees	1,638	10	49	3	164	8	27	2	4	43
Proprietors and firm members	999	8	27	3	34	8	28	2	4	49
Performing manual labor	615	4	16	—	26	4	20	—	3	41
Principal expenses designated below, total	\$40,592,495	\$137,966	\$2,819,104	\$55,065	\$7,105,317	\$101,150	\$729,260	\$45,783	\$97,312	\$1,015,917
Wages	\$26,878,928	\$32,866	\$2,810,766	\$22,667	\$5,659,218	\$42,558	\$325,916	\$24,852	\$45,211	\$620,280
Salaries	\$3,614,916	\$16,801	\$69,608	\$4,370	\$554,025	\$12,191	\$9,463	\$9,350	\$6,910	\$85,240
Supplies and materials	\$6,562,815	\$30,765	\$280,677	\$10,023	\$742,566	\$20,073	\$80,397	\$4,665	\$19,224	\$171,948
Fuel	\$1,408,071	\$12,363	\$31,157	\$8,562	\$25,037	\$9,561	\$22,288	\$5,918	\$11,855	\$54,332
Purchased electric energy	\$2,047,587	\$22,896	\$115,564	\$7,248	\$320,106	\$15,087	\$29,870	\$2,998	\$14,134	\$45,710
Contract work	\$577,188	\$3,674	\$332	\$405	\$6,567	\$1,900	\$31,326	—	—	\$38,506
Cost of buildings, machinery, and equipment erected or installed during year	\$5,797,732	\$30,542	\$124,659	\$18,254	\$322,271	\$7,651	\$70,287	\$22,500	\$7,428	\$183,577
Buildings	\$580,406	\$2,326	\$5,597	\$1,200	\$41,961	\$5,695	\$9,355	—	—	\$5,572
Machinery and equipment	\$5,217,326	\$28,216	\$119,062	\$17,054	\$280,310	\$3,956	\$60,932	\$22,500	\$7,428	\$178,005
Horsepower rating of prime movers and electric motors driven by purchased energy, total	298,018	5,748	11,067	1,755	28,100	3,903	4,401	770	1,629	9,376
Prime movers	126,810	1,566	4,483	637	6,635	1,495	2,594	474	841	6,012
Electric motors driven by purchased energy	161,208	2,182	6,614	1,118	21,465	2,408	1,807	296	988	3,364
Horsepower rating of electric motors driven by energy generated by reporting companies	38,980	140	2,734	—	6,736	—	596	—	310	426
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	2,335	—	—	—	—	—	—	—	762	—
Bituminous coal (tons of 2,000 pounds)	218,927	1,237	16,302	235	10,507	46	3,985	3	280	4,183
Fuel oils (barrels of 42 gallons)	102,420	8,156	208	100	1,585	1,214	4,017	—	600	7,431
Gasoline and kerosene (gallons)	4,064,437	68,972	34,420	51,191	25,955	49,276	64,622	29,793	54,115	176,530
Natural gas (thousands of cubic feet)	314,917	—	—	—	—	—	—	—	—	5,374
Electric energy consumed (thousands of kw.-hrs.), total	147,328	980	6,269	244	29,617	710	1,654	246	968	2,655
Purchased	119,569	967	6,634	244	22,965	710	1,408	246	532	2,743
Generated by reporting companies	29,038	13	1,574	—	6,652	—	246	—	436	92

ITEM	Coshocton	Cuyahoga	Delaware	Erie	Fairfield	Fayette	Franklin	Gallia	Greene	Guernsey	Hamilton
Number of operating companies ¹	48	17	10	7	5	4	10	9	3	21	15
Number of mines and quarries	47	19	11	11	4	4	10	9	3	21	16
Number of preparation plants	3	12	9	6	5	4	7	3	2	1	15
Value of all products	\$512,298	\$449,148	\$145,295	\$925,076	\$141,552	\$170,718	\$1,198,292	\$149,781	\$176,594	\$649,961	\$1,007,727
Number of persons engaged, total	359	398	80	211	47	48	361	111	48	510	276
Wage earners (average for the year)	268	101	66	192	40	40	284	89	44	477	136
Salaried employees	6	263	7	18	2	6	76	4	4	14	132
Proprietors and firm members	65	4	7	1	5	2	1	18	—	19	5
Performing manual labor	52	1	6	—	1	—	—	9	—	14	5
Principal expenses designated below, total	\$374,502	\$812,569	\$116,247	\$525,606	\$92,188	\$75,822	\$945,715	\$102,818	\$85,642	\$770,744	\$775,788
Wages	\$265,068	\$121,218	\$59,101	\$251,627	\$45,034	\$29,156	\$315,943	\$72,219	\$44,025	\$600,789	\$176,225
Salaries	\$10,478	\$518,970	\$8,551	\$48,860	\$5,880	\$14,627	\$212,257	\$1,580	\$7,440	\$21,941	\$418,968
Supplies and materials	\$87,277	\$90,011	\$17,310	\$109,299	\$21,241	\$14,606	\$194,225	\$15,511	\$27,278	\$102,526	\$65,688
Fuel	\$17,771	\$22,194	\$24,265	\$66,326	\$16,837	\$7,790	\$59,796	\$10,360	\$3,527	\$2,322	\$24,245
Purchased electric energy	\$15,777	\$33,544	\$4,941	\$29,194	—	\$9,643	\$62,218	\$3,328	\$3,372	\$43,166	\$42,601
Contract work	\$151	\$26,951	\$1,979	—	\$3,176	—	\$1,276	—	—	—	\$25,670
Cost of buildings, machinery, and equipment erected or installed during year	\$13,965	\$46,920	\$8,602	\$80,040	\$15,101	\$6,180	\$46,336	\$1,265	—	\$43,504	\$129,139
Buildings	\$1,980	\$1,179	\$1,800	\$21,000	\$1,068	—	\$800	\$399	—	\$1,278	\$41,223
Machinery and equipment	\$11,985	\$45,741	\$6,802	\$59,040	\$14,033	\$6,180	\$45,536	\$866	—	\$42,025	\$87,916
Horsepower rating of prime movers and electric motors driven by purchased energy, total	4,637	4,144	1,913	7,716	1,431	1,329	13,926	1,160	821	3,910	5,480
Prime movers	2,652	1,601	1,278	4,791	1,431	493	4,013	810	511	973	2,734
Electric motors driven by purchased energy	2,985	2,543	635	2,925	—	836	9,915	350	310	2,937	2,746
Horsepower rating of electric motors driven by energy generated by reporting companies	701	—	94	608	—	—	—	60	1,360	32	595
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	746	1,854	3,495	15,208	431	150	8,469	757	335	858	192
Bituminous coal (tons of 2,000 pounds)	1,567	96	871	131	—	—	6,579	195	202	86	513
Fuel oils (barrels of 42 gallons)	93,712	91,729	67,754	63,466	38,873	46,926	68,179	52,494	9,481	5,019	456
Gasoline and kerosene (gallons)	—	198	—	—	39,665	—	—	448	1,118	—	145,234
Natural gas (thousands of cubic feet)	—	—	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	757	1,572	499	1,511	15	410	3,532	101	1,061	2,590	1,755
Purchased	663	1,572	255	1,412	—	410	3,532	93	88	2,562	1,691
Generated by reporting companies	94	—	244	99	15	—	—	8	973	28	60

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

OHIO

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OHIO, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Hancock	Hardin	Harrison	Highland	Hocking	Holmes	Jackson	Jefferson	Knox	Lake	Lawrence
Number of operating companies ¹	5	6	22	6	28	9	28	65	5	8	25
Number of mines and quarries	6	6	22	6	28	10	30	65	5	8	27
Number of preparation plants	6	6	2	5	—	—	4	5	1	—	5
Value of all products	\$176,548	\$390,505	\$5,545,901	\$94,559	\$479,823	\$80,578	\$521,272	\$7,507,499	\$516,997	\$29,624	\$807,577
Number of persons engaged, total	81	102	1,319	61	317	70	555	5,978	74	8	585
Wage earners (average for the year)	52	95	1,248	52	279	80	278	5,765	67	8	535
Salaried employees	26	4	59	6	—	—	28	184	5	—	11
Proprietors and firm members	3	3	12	3	32	10	27	49	2	—	19
Performing manual labor	2	—	10	—	21	7	17	41	—	—	15
Principal expenses designated below, total	\$146,095	\$278,925	\$2,748,512	\$55,108	\$382,663	\$60,950	\$431,832	\$6,158,765	\$189,568	\$15,082	\$461,470
Wages	\$46,619	\$107,968	\$1,971,232	\$52,596	\$308,840	\$52,322	\$306,622	\$4,460,932	\$87,254	\$5,729	\$321,476
Salaries	\$64,405	\$6,185	\$141,282	\$7,989	\$10,865	—	\$87,685	\$322,548	\$14,802	—	\$18,718
Supplies and materials	\$9,595	\$102,190	\$455,208	\$5,915	\$46,820	\$5,354	\$56,561	\$998,520	\$48,630	\$2,671	\$94,979
Fuel	\$10,177	\$18,375	\$41,930	\$8,537	\$5,712	\$1,952	\$7,060	\$61,218	\$17,027	\$270	\$2,096
Purchased electric energy	\$15,297	\$44,507	\$100,985	\$1,791	\$11,944	\$641	\$6,224	\$255,556	\$19,804	\$382	\$18,759
Contract work	—	—	\$38,925	\$580	\$8,982	—	—	\$60,009	\$1,441	—	\$5,480
Cost of buildings, machinery, and equipment erected or installed during year	\$172	\$40,091	\$155,817	\$885	\$4,578	\$809	\$27,584	\$920,225	\$5,989	—	\$24,153
Buildings	—	\$15,771	\$31,289	—	\$1,545	\$409	\$630	\$28,023	—	—	\$1,027
Machinery and equipment	\$172	\$24,320	\$124,528	\$885	\$3,033	\$400	\$26,954	\$892,202	\$5,989	—	\$23,126
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,679	5,518	10,745	1,456	2,961	605	2,630	24,139	2,082	179	2,225
Prime movers	865	978	4,115	1,542	1,693	424	2,340	6,479	791	44	754
Electric motors driven by purchased energy	1,814	2,540	6,632	114	1,568	179	290	17,660	1,271	135	1,471
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	2,995	120	567	—	855	5,510	—	—	1,377
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	194	—	—	—
Bituminous coal (tons of 2,000 pounds)	1,986	2,527	27,606	512	470	327	250	27,168	1,933	83	275
Fuel oils (barrels of 42 gallons)	119	143	1,187	410	254	108	596	5,250	—	—	57
Gasoline and kerosene (gallons)	12,503	55,795	68,151	22,659	23,689	5,854	52,559	261,599	56,264	—	9,654
Natural gas (thousands of cubic feet)	—	3,690	—	—	752	—	—	—	11,656	—	—
Electric energy consumed (thousands of kw.-hrs.), total	596	2,370	12,574	54	982	41	659	19,668	1,057	31	2,165
Purchased	596	2,370	6,937	54	468	41	223	16,192	1,057	31	1,327
Generated by reporting companies	—	—	5,637	—	516	—	436	3,476	—	—	838

ITEM	Licking	Logan	Lucas	Mahoning	Marion	Medina	Meigs	Miami	Monroe	Montgomery	Morgan
Number of operating companies ¹	5	5	6	20	5	7	24	5	6	7	7
Number of mines and quarries	4	5	7	22	6	7	24	6	4	7	8
Number of preparation plants	4	5	6	1	6	4	—	6	7	7	5
Value of all products	\$180,528	\$81,552	\$855,655	\$917,929	\$256,248	\$180,049	\$272,875	\$474,009	\$24,055	\$287,586	\$105,655
Number of persons engaged, total	61	31	125	309	65	49	242	96	32	57	86
Wage earners (average for the year)	55	26	104	266	57	59	218	78	26	66	70
Salaried employees	5	1	16	24	4	4	3	16	—	17	5
Proprietors and firm members	1	4	3	19	4	6	21	4	6	4	11
Performing manual labor	—	1	—	15	1	2	15	1	—	1	8
Principal expenses designated below, total	\$141,401	\$39,945	\$501,497	\$567,765	\$126,925	\$106,515	\$221,669	\$264,896	\$11,722	\$151,107	\$95,695
Wages	\$58,959	\$17,537	\$109,510	\$517,677	\$53,115	\$43,354	\$175,350	\$34,090	\$9,016	\$61,295	\$71,380
Salaries	\$17,518	\$1,300	\$36,558	\$96,528	\$5,954	\$9,902	\$5,635	\$62,961	—	\$35,127	\$5,284
Supplies and materials	\$47,413	\$9,146	\$164,090	\$110,623	\$25,411	\$39,217	\$26,724	\$69,227	\$661	\$38,589	\$8,241
Fuel	\$12,015	\$7,582	\$55,896	\$22,205	\$10,592	\$12,101	\$2,374	\$12,264	\$1,625	\$14,920	\$4,191
Purchased electric energy	\$4,113	\$4,245	\$35,565	\$13,903	\$24,534	\$6,761	\$11,588	\$15,480	—	\$24,576	\$4,679
Contract work	\$1,405	\$285	\$99,788	\$6,851	\$9,549	—	—	\$874	\$400	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,053	\$11,770	\$30,789	\$74,417	\$4,580	\$5,978	\$10,125	\$2,219	—	\$58,713	\$14,138
Buildings	—	—	—	—	—	\$946	\$1,950	\$1,019	—	\$13,595	—
Machinery and equipment	\$1,053	\$11,770	\$30,789	\$74,417	\$4,580	\$5,132	\$8,175	\$1,200	—	\$45,118	\$14,138
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,517	1,352	5,155	4,508	3,121	1,712	2,527	5,451	399	1,007	1,222
Prime movers	1,955	1,008	2,794	2,689	1,565	1,068	822	659	399	1,068	595
Electric motors driven by purchased energy	562	343	2,369	1,477	1,766	614	1,405	2,772	—	1,919	827
Horsepower rating of electric motors driven by energy generated by reporting companies	—	56	1,237	196	—	—	128	—	—	—	—
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	70	501	11,315	5,590	1,205	199	15	7	10	148	—
Fuel oils (barrels of 42 gallons)	—	212	—	917	—	41	404	—	—	82	11
Gasoline and kerosene (gallons)	12,814	55,025	57,651	77,613	46,553	60,424	4,675	91,948	7,800	91,382	30,016
Natural gas (thousands of cubic feet)	45,814	—	—	—	—	12,689	—	—	2,802	—	—
Electric energy consumed (thousands of kw.-hrs.), total	189	172	5,592	725	1,186	205	468	670	—	939	216
Purchased	189	168	1,617	675	1,196	205	444	670	—	939	216
Generated by reporting companies	—	4	1,975	48	—	—	24	—	—	—	—

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

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OHIO, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Muskingum	Noble	Ottawa	Perry	Portage	Preble	Putnam	Richland	Ross	Sandusky	Scioto
Number of operating companies ¹	39	5	4	74	7	3	6	6	4	7	7
Number of mines and quarries	41	4	5	75	8	3	7	5	4	7	7
Number of preparation plants	6	2	5	4	4	3	6	5	3	7	3
Value of all products	\$2,068,054	\$42,979	\$1,394,434	\$2,041,456	\$418,708	\$59,560	\$142,546	\$109,155	\$156,800	\$917,651	\$465,864
Number of persons engaged, total	867	24	317	1,896	114	28	58	51	43	228	149
Wage earners (average for the year)	763	19	306	1,284	102	24	46	28	36	212	151
Salaried employees	67	—	11	21	7	2	11	—	6	14	18
Proprietors and firm members	37	5	—	21	5	2	1	3	1	—	—
Performing manual labor	51	2	—	77	4	—	—	1	1	—	—
Principal expenses designated below, total	\$1,624,906	\$28,296	\$809,822	\$1,547,607	\$228,315	\$49,086	\$91,029	\$65,958	\$71,065	\$419,675	\$258,525
Wages	\$1,039,740	\$17,308	\$464,954	\$1,103,354	\$129,703	\$22,158	\$55,411	\$56,909	\$25,521	\$253,296	\$109,076
Salaries	\$213,285	—	\$27,054	\$27,718	\$11,540	\$2,639	\$21,690	—	\$11,543	\$25,379	\$45,098
Supplies and materials	\$251,293	\$5,805	\$225,461	\$247,955	\$52,291	\$11,377	\$20,298	\$14,213	\$15,810	\$89,517	\$60,596
Fuel	\$74,540	\$5,162	\$45,415	\$53,451	\$15,532	\$5,865	\$8,945	\$13,980	\$9,945	\$21,808	\$11,857
Purchased electric energy	\$45,913	\$24	\$46,960	\$87,620	\$21,249	\$4,547	\$5,575	\$856	\$8,446	\$51,675	\$8,802
Contract work	\$125	—	—	\$27,508	—	\$2,500	\$1,112	—	—	—	\$25,101
Cost of buildings, machinery, and equipment erected or installed during year	\$21,783	\$1,305	\$87,892	\$106,100	\$162,454	\$5,410	\$28,609	\$16,508	\$12,515	\$51,812	\$24,433
Buildings	\$5,462	\$60	\$41,411	\$19,604	\$4,782	—	—	\$1,586	—	\$6,311	—
Machinery and equipment	\$26,320	\$1,245	\$46,481	\$86,496	\$157,672	\$5,410	\$28,609	\$14,922	\$12,515	\$45,501	\$24,433
Horsepower rating of prime movers and electric motors driven by purchased energy, total	6,598	464	6,721	8,907	2,695	1,319	2,774	759	1,494	6,062	2,094
Prime movers	6,244	432	2,461	5,458	1,125	1,041	2,125	618	598	2,077	1,496
Electric motors driven by purchased energy	2,154	32	4,260	5,469	1,570	278	649	121	896	3,985	896
Horsepower rating of electric motors driven by energy generated by reporting companies	2,348	—	1,110	1,164	120	—	140	—	75	475	95
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	—	470	—
Bituminous coal (tons of 2,000 pounds)	11,037	—	14,182	3,761	1,899	790	445	145	—	2,651	2,454
Fuel oils (barrels of 42 gallons)	7,289	7	—	1,520	9,426	—	658	—	—	947	190
Gasoline and kerosene (gallons)	138,021	7,062	6,845	117,391	19,827	21,706	57,118	30,828	64,402	57,244	30,821
Natural gas (thousands of cubic feet)	5,524	20,115	—	68,064	—	—	—	39,546	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	4,538	2	4,162	5,528	977	154	255	28	394	5,646	381
Purchased	3,419	2	5,064	4,618	971	154	185	28	310	3,113	332
Generated by reporting companies	1,117	—	1,128	710	6	—	50	—	84	533	49

ITEM	Seneca	Stark	Summit	Tuscarawas	Union	Vinton	Washington	Wayne	Wood	Wyandot	All other ²
Number of operating companies ¹	4	46	8	112	3	17	8	6	5	6	31
Number of mines and quarries	5	54	5	125	3	21	7	5	6	6	33
Number of preparation plants	4	8	5	17	3	4	6	2	6	5	29
Value of all products	\$642,804	\$1,743,327	\$365,859	\$2,581,047	\$41,618	\$256,200	\$219,080	\$152,786	\$288,584	\$399,882	\$1,959,720
Number of persons engaged total	197	571	66	1,329	16	166	123	56	96	171	581
Wage earners (average for the year)	190	476	54	1,139	11	140	112	55	87	157	500
Salaried employees	7	53	12	70	2	2	6	1	8	10	86
Proprietors and firm members	—	42	—	120	5	24	5	2	1	4	15
Performing manual labor	—	53	—	86	4	6	2	—	1	4	7
Principal expenses designated below, total	\$403,295	\$1,055,495	\$164,153	\$1,985,602	\$15,622	\$193,694	\$132,280	\$83,950	\$176,756	\$265,550	\$1,135,176
Wages	\$181,563	\$595,800	\$74,263	\$1,305,651	\$7,157	\$121,107	\$83,551	\$57,839	\$102,650	\$153,543	\$482,054
Salaries	\$15,513	\$75,751	\$27,782	\$79,120	—	\$2,490	\$18,660	\$1,664	\$10,952	\$15,415	\$154,075
Supplies and materials	\$148,584	\$193,150	\$22,402	\$309,182	\$3,325	\$50,824	\$14,010	\$9,727	\$55,564	\$34,189	\$283,986
Fuel	\$22,590	\$65,548	\$12,495	\$61,590	\$3,280	\$15,240	\$15,764	\$10,698	\$15,224	\$20,058	\$94,986
Purchased electric energy	\$25,936	\$62,466	\$15,306	\$72,558	\$1,560	\$1,146	\$245	\$4,002	\$12,588	\$37,423	\$112,241
Contract work	\$8,422	\$61,798	\$1,905	\$57,701	—	\$4,887	—	—	—	\$4,952	\$5,954
Cost of buildings, machinery, and equipment erected or installed during year	\$9,910	\$222,076	\$10,115	\$246,778	\$8,000	\$20,510	—	\$5,381	\$71,476	\$12,177	\$142,074
Buildings	—	\$29,454	\$2,412	\$21,529	—	\$3,686	—	—	\$2,347	\$1,429	\$12,217
Machinery and equipment	\$9,910	\$192,622	\$7,703	\$225,249	\$8,000	\$16,944	—	\$5,381	\$69,129	\$10,748	\$129,857
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,420	11,032	2,222	13,678	525	2,478	1,092	779	2,325	3,944	19,745
Prime movers	1,978	6,361	937	7,996	417	2,028	1,064	482	1,601	2,039	9,875
Electric motors driven by purchased energy	3,547	4,662	1,285	5,682	108	450	28	297	724	1,905	9,870
Horsepower rating of electric motors driven by energy generated by reporting companies	783	538	—	1,080	—	30	18	—	—	—	903
Fuels consumed:											
Anthracite (tons of 2,000 pounds)	—	—	9	—	—	—	—	—	—	—	708
Bituminous coal (tons of 2,000 pounds)	5,202	1,920	800	3,820	258	490	5,459	—	1,786	2,582	7,608
Fuel oils (barrels of 42 gallons)	9,400	6,526	—	6,618	216	891	66	37	351	1,792	13,554
Gasoline and kerosene (gallons)	71,518	\$15,826	\$68,327	\$250,591	12,871	58,645	12,249	11,952	\$9,900	62,782	\$63,522
Natural gas (thousands of cubic feet)	—	2,099	—	—	—	—	19,817	36,180	1,416	—	30
Electric energy consumed (thousands of kw.-hrs.), total	1,622	4,579	607	3,892	97	65	26	134	690	2,265	5,780
Purchased	1,572	3,926	607	3,561	97	56	9	116	690	2,265	5,310
Generated by reporting companies	250	653	—	341	—	27	17	18	—	—	470

¹ Companies with operations in more than 1 county are counted only once in the totals.² Adams, Ashland, Ashsaula, Brown, Champaign, Clinton, Crawford, Darke, Geauga, Huron, Lorain, Madison, Mercer, Paulding, Pickaway, Pike, Shelby, Trumbull, Van Wert, Warren, and Williams.

OKLAHOMA

Oklahoma ranked fifth among the States in value of products of mineral industries in 1939, and ninth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 47 percent of that for 1929, and the number of wage earners 50 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 72 percent of that in 1919, and the number of wage earners 68 percent. Differences between totals for 1929 and 1939 are accounted for chiefly by decreases in the bituminous-coal and zinc-ore industries; differences between 1919 and 1939 are due chiefly to decreases in the crude-petroleum and natural-gas, bituminous-coal, and lead-ore and zinc-ore industries. Total horsepower rating of power equipment at mineral operations in 1939 was 83 percent of that in 1929, but 209 percent of that in 1919.

The crude-petroleum and natural-gas industry ranked first among the mineral industries in the State in 1939, accounting for 84 percent of the total value of products, and for 69 percent of the total number of wage earners employed. (See table

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

2.) The natural-gasoline industry ranked second in terms of value of products with 8 percent of the total, and employed 9 percent of the wage earners. The zinc-ore industry accounted for 5 percent of the total value of products and 11 percent of the wage earners. Oklahoma produced 12 percent of the crude petroleum and 10 percent of the natural gas reported by the industry for the United States. Natural-gasoline plants in the State accounted for 20 percent of the natural gasoline produced in the industry, and zinc-ore operations for 34 percent of the total value of products of the zinc-ore industry. Oklahoma ranked first among all States in value of products in the zinc-ore industry and third in the crude-petroleum and natural-gas, natural-gasoline, and native asphalt and bitumens industries. (See reports for these industries.)

Other mineral industries in the State were lead ore, limestone, granite, miscellaneous stone, common sand and gravel, glass sand, common clay and shale, bentonite, gypsum, and natural abrasives. Mineral operations (other than oil and gas wells) were located in 48 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN OKLAHOMA: 1939, 1929, AND 1919¹

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and natural-gasoline industries)		1939 AND 1919 (Excluding the common clay and shale, common sand and gravel, and natural sodium compounds industries)	
		1929	1929	1939 *	1919
Number of mines and quarries-----	235	226	261	205	284
Number of oil and gas wells producing at end of year-----	50,384			50,384	44,755
Number of natural-gasoline plants-----	139			139	311
Value of all products-----	\$196,805,201	\$15,640,377	\$35,159,080	\$196,199,613	\$272,169,659
Number of persons engaged, total-----	30,949	5,759	11,019	30,654	40,855
Wage earners (average for the year)-----	23,279	5,099	10,279	23,067	33,614
Salaried employees-----	6,839	535	674	6,901	5,835
Proprietors and firm members-----	831	107	66	818	1,106
Performing manual labor-----	204	66	(3)	199	58
Principal expenses designated below, total-----	\$63,872,984	\$9,688,496	\$23,429,418	\$63,496,279	\$138,576,503
Wages-----	\$30,413,322	\$4,940,677	\$15,616,561	\$30,236,239	\$46,809,200
Salaries-----	\$17,879,704	\$879,096	\$1,933,974	\$17,824,246	\$12,532,452
Supplies and materials-----	\$15,651,974	\$2,652,294	\$5,572,239	\$15,584,145	\$55,456,900
Fuel-----	\$4,323,710	\$313,063	\$820,879	\$4,299,642	\$5,626,667
Purchased electric energy-----	\$1,870,411	\$726,543	\$1,430,826	\$1,937,437	\$96,907
Contract work-----	\$15,735,763	\$176,923	\$255,089	\$13,727,570	\$18,982,377
Cost of machinery and equipment installed during year-----	\$11,623,124	\$401,661	\$950,411	\$11,566,101	(3)
Horsepower rating of power equipment, total-----	947,665	88,794	106,345	938,730	448,173
Per wage earner-----	40.7	17.4	10.3	40.7	13.2
Prime movers-----	867,578	45,924	37,507	862,002	415,761
Electric motors driven by purchased energy-----	80,087	44,870	66,838	76,728	4 32,392
Electric energy consumed (thousands of kw.-hrs.), total-----	262,758	75,002	109,690	260,654	(3)
Purchased-----	177,184	51,122	93,313	175,652	(3)
Generated by reporting companies-----	85,564	23,880	16,377	85,302	(3)

¹Statistics for 1939 exclude 2 tripoli mines; figures for these mines are included with those for the associated mills in Kansas and Missouri.

* Includes 2 mines and 2 preparation plants in the glass-sand industry. Also includes 3 limestone quarries, with products valued at \$206,729, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

³ Not available.

⁴ Includes 900 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OKLAHOMA, BY INDUSTRY: 1939¹

ITEM	All operations in all industries 1	PRODUCING OPERATIONS 1					
		Total	Fuels			Metallic ores	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Lead ore	Zinc ore
Number of operating companies	1,475	1,302	1,094	55	86	4	59
Number of mines and quarries	235	235			88	5	81
Number of oil and gas wells producing on December 31, 1939	50,384	50,384	50,384				
Number of preparation plants	225	225		159			35
Value of all products 7	\$210,226,707	\$196,608,201	\$164,702,209	\$16,592,872	\$2,504,489	\$145,844	\$10,594,730
Number of persons engaged, total	34,782	30,949	22,749	2,424	1,585	71	5,006
Wage earners (average for the year)	28,580	23,279	16,126	2,018	1,409	69	2,671
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	27,012	24,015	16,646	2,091	2,001	65	2,502
February	26,456	23,508	16,802	2,052	1,890	66	2,278
March	26,422	23,329	16,495	2,097	1,586	69	2,539
April	25,841	22,582	16,405	2,056	548	62	2,389
May	26,655	23,017	16,610	2,074	689	64	2,466
June	26,060	22,558	16,261	2,060	542	68	2,563
July	26,495	23,054	16,459	2,079	852	68	2,529
August	26,560	23,121	15,957	2,020	1,458	71	2,637
September	26,468	23,664	15,728	1,970	1,658	72	2,810
October	26,698	23,679	15,652	1,927	1,945	68	3,128
November	27,176	23,837	15,619	1,927	2,047	74	3,297
December	26,958	23,385	15,399	1,867	1,910	76	3,290
Salaries employees	7,184	6,859	5,903	405	113	2	512
Proprietors and firm members	1,018	831	720	5	65		22
Performing manual labor	298	294	157	1	44		11
Principal expenses designated below, total	\$ 388,791,921	\$ 388,872,984	\$66,126,746	\$7,619,755	\$2,012,106	\$115,862	\$6,582,028
Wages	\$54,354,062	\$50,415,322	\$22,132,570	\$3,316,033	\$1,222,458	\$86,553	\$2,896,121
Salaries	\$18,760,522	\$17,879,704	\$16,066,851	\$935,757	\$171,106	\$4,920	\$554,235
Supplies and materials	\$15,699,921	\$15,651,974	\$11,125,207	\$1,669,568	\$429,234	\$42,116	\$2,111,929
Fuel	\$4,349,182	\$4,383,710	\$2,436,215	\$1,569,175	\$38,298	\$2,269	\$195,215
Purchased electric energy	\$1,870,756	\$1,870,411	\$1,090,798	\$61,357	\$126,021	\$4	\$52,091
Contract work	\$13,788,856	\$13,735,763	\$13,287,105	\$269,835	\$24,991		\$124,379
Cost of buildings, machinery, and equipment erected or installed during year	\$ 12,654,971	\$12,650,748	\$11,398,548	\$674,580	\$135,972	\$1,344	\$278,878
Buildings	\$1,027,624	\$1,027,624	\$756,196	\$95,485	\$5,922	\$307	\$124,062
Machinery and equipment, total	\$11,625,547	\$11,625,124	\$10,642,352	\$579,095	\$128,050	\$1,037	\$154,211
Purchased in new condition	\$9,227,577	\$9,225,577	\$7,561,495	\$503,263	\$32,610	\$617	\$39,685
Purchased in used condition	\$3,397,770	\$3,397,547	\$3,080,855	\$75,832	\$95,440	\$420	\$114,586
Number of man-hours worked by wage earners	47,577,121	42,484,982	28,194,519	4,203,159	2,008,703	158,503	5,832,344
Average hourly earning of wage earners	\$0.72	\$0.72	\$0.78	\$0.79	\$0.61	\$0.42	\$0.50
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,049,325	947,665	650,968	207,020	20,474	165	48,668
Per wage earner	59.5	40.7	40.4	102.6	14.5	2.4	18.2
Prime movers	967,597	867,576	617,155	205,756	7,476	165	24,846
Electric motors driven by purchased energy	81,928	80,087	33,813	1,264	12,998		23,842
Horsepower rating of electric motors driven by energy generated by reporting companies	55,442	48,121	28,732	7,957			7,512
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	10 17	17					9
Bituminous coal (tons of 2,000 pounds)	10 24,042	24,042	1,085		13,400	8	4,507
Fuel oils (barrels of 42 gallons)	10 134,069	129,589	66,185		1,515		51,872
Gasoline and kerosene (gallons)	10 2,222,906	2,222,906	1,367,290		114,991	1,346	599,153
Natural gas (thousands of cubic feet)	10 72,980,596	72,975,667	37,395,876	35,247,652		4,920	251,132
Electric energy consumed (thousands of kw.-hrs.), total	262,768	262,758	138,843	48,834	6,234		62,027
Purchased	10 177,174	177,184	118,911	7,055	6,234		41,333
Generated by reporting companies	10 85,594	85,574	19,932	41,779			20,694

¹ Excludes 2 tripoli mines for which statistics are included with those for the associated mills in Kansas and Missouri.

² The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

³ Includes operations of 9 companies in the crude-petroleum and natural-gas industry.

⁴ Represents 2 mines and 2 preparation plants in the glass-sand industry, 1 mine and 1 preparation plant in the bentonite industry, 1 mine and 1 preparation plant in the native asphalt and bituminous industry, and 2 mines and 1 preparation plant in the natural-abrasives industry.

⁵ Represents 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry, and 2 rough-dimension granite quarries.

⁶ Companies with operations in more than 1 industry are counted only once in the totals.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OKLAHOMA, BY INDUSTRY: 1934—Continued

ITEM	PRODUCING OPERATIONS ¹ —Continued						Contract- service operations ²	Nonproducing operations ³
	Stone		Common sand and gravel	Common clay and shale	Gypsum	All other ⁴		
	Crushed and broken limestone	Other ⁵						
Number of operating companies ⁶ -----	14	3	13	7	3	6	209	10
Number of mines and quarries-----	19	3	21	9	3	6	-----	1
Number of oil and gas wells producing on December 31, 1939-----	-----	-----	-----	-----	-----	-----	-----	-----
Number of preparation plants-----	19	1	21	1	2	5	-----	-----
Value of all products ⁷ -----	\$748,755	\$433,579	\$545,645	\$27,743	\$206,481	\$460,854	\$13,423,506	-----
Number of persons engaged, total-----	389	248	246	37	71	132	3,622	10
Wage earners (average for the year)-----	314	240	206	36	67	123	3,236	3
Number receiving pay during pay-roll period ending nearest the 15th of:	-----	-----	-----	-----	-----	-----	-----	-----
January-----	297	192	206	38	59	116	2,996	3
February-----	315	192	199	32	61	121	2,925	3
March-----	340	196	184	39	61	124	3,090	3
April-----	358	239	239	40	66	122	3,239	1
May-----	306	239	239	39	68	124	3,635	1
June-----	286	230	250	41	69	123	3,485	7
July-----	311	307	206	41	70	130	3,432	7
August-----	311	307	173	30	71	123	3,432	7
September-----	313	305	176	34	71	127	3,202	3
October-----	318	173	210	33	70	125	3,215	4
November-----	319	175	189	32	69	119	3,338	1
December-----	313	174	132	36	67	117	3,559	1
Salaried employees-----	53	5	26	-----	4	6	341	4
Proprietors and firm members-----	2	3	14	1	-----	3	154	3
Performing manual labor-----	2	1	5	-----	-----	3	82	2
Principal expenses designated below, total-----	\$485,312	\$255,120	\$311,220	\$37,909	\$105,798	\$196,574	\$4,945,304	\$75,733
Wages-----	\$255,682	\$194,785	\$153,041	\$24,042	\$65,056	\$106,361	\$3,917,555	\$3,105
Salaries-----	\$93,065	\$11,190	\$30,982	-----	\$7,759	\$11,305	\$671,158	\$9,640
Supplies and materials-----	\$98,530	\$28,116	\$80,324	\$6,905	\$29,622	\$51,523	\$35,739	\$948
Fuel-----	\$51,988	\$2,930	\$28,909	\$5,259	\$2,131	\$13,375	\$30,772	\$4,700
Purchased electric energy-----	\$56,047	\$4,440	\$31,271	\$1,703	-----	\$5,669	(11)	\$545
Contract work-----	-----	\$15,659	\$4,133	-----	\$990	\$4,721	(11)	\$55,026
Cost of buildings, machinery, and equipment erected or installed during year-----	\$42,334	\$40,000	\$27,828	-----	\$2,771	\$10,700	\$30,000	\$2,223
Buildings-----	-----	\$10,000	\$30,605	-----	\$2,771	\$1,674	(11)	-----
Machinery and equipment, total-----	\$42,334	\$30,000	\$37,023	-----	-----	\$9,026	(11)	\$2,223
Purchased in new condition-----	\$42,334	\$10,000	\$26,918	-----	-----	\$8,687	(11)	\$2,000
Purchased in used condition-----	-----	\$20,000	\$10,105	-----	-----	\$339	(11)	\$223
Number of man-hours worked by wage earners-----	562,797	650,216	436,674	56,517	126,455	225,046	5,078,954	1,235
Average hourly earning of wage earners-----	\$0.42	\$0.28	\$0.35	\$0.43	\$0.51	\$0.48	\$0.77	\$0.59
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	8,604	908	9,052	885	540	1,365	101,437	203
Per wage earner-----	27.4	3.8	59.1	24.5	8.1	11.1	30.9	67.7
Prime movers-----	4,534	496	4,813	763	540	1,054	96,706	115
Electric motors driven by purchased energy-----	4,070	412	3,239	120	-----	309	1,751	90
Horsepower rating of electric motors driven by energy generated by reporting companies-----	3,257	-----	465	175	23	-----	7,321	-----
Fuels consumed:	-----	-----	-----	-----	-----	-----	-----	-----
Anthracite (tons of 2,000 pounds)-----	-----	-----	-----	-----	-----	8	(11)	-----
Bituminous coal (tons of 2,000 pounds)-----	3,512	-----	759	773	-----	-----	(11)	-----
Fuel oils (barrels of 42 gallons)-----	305	476	684	-----	-----	8,574	(11)	4,700
Gasoline and kerosene (gallons)-----	105,331	3,250	154,920	7,504	12,312	36,339	(11)	-----
Natural gas (thousands of cubic feet)-----	3,063	9,975	9,866	19,000	4,383	-----	(11)	4,729
Electric energy consumed (thousands of kw.-hrs.), total-----	4,509	195	1,725	79	3	309	(11)	10
Purchased-----	1,615	195	1,436	76	-----	309	(11)	10
Generated by reporting companies-----	2,894	-----	289	3	3	-----	(11)	-----

¹ Includes amounts received or due for contract services performed during the year.² Includes statistics for central-office employees in the natural sodium compounds industry.³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy and were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.⁴ Excludes statistics for contract-service operations.⁵ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OKLAHOMA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State 1	Blaine	Carter	Coal	Craig	Creek	Haskell
Number of operating companies 1	249	5	3	8	3	23	4
Number of mines and quarries	231	3	1	8	3	1	3
Number of preparation plants	223	2	4	1	1	26	1
Value of all products	\$32,100,992	\$206,481	\$242,781	\$61,134	\$18,765	\$1,825,315	\$121,322
Number of persons engaged, total	8,290	70	69	59	16	327	68
Wage earners (average for the year)	7,153	67	62	51	12	293	59
Salaries employees	956	3	6	1	1	33	3
Proprietors and firm members	111	—	—	7	4	1	1
Performing manual labor	67	—	—	7	4	1	—
Principal expenses designated below, total	\$17,748,138	\$104,264	\$201,765	\$53,995	\$14,808	\$946,204	\$90,774
Wages	\$8,280,752	\$65,056	\$103,236	\$41,646	\$9,123	\$474,509	\$59,897
Salaries	\$1,612,653	\$6,225	\$13,463	\$1,800	—	\$97,577	\$5,286
Supplies and materials	\$4,529,787	\$29,922	\$43,779	\$6,297	\$4,352	\$252,535	\$21,250
Fuel	\$1,987,456	\$2,181	\$40,271	\$1,140	\$1,025	\$140,432	\$2,026
Purchased electric energy	\$789,615	—	\$170	\$3,112	\$6	\$4,190	\$1,705
Contract work	\$466,658	\$680	\$644	—	\$300	\$7,111	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,252,202	\$2,771	\$16,950	\$349	\$3,195	\$4,948	—
Buildings	\$271,426	\$2,771	—	\$200	\$310	—	—
Machinery and equipment	\$980,776	—	\$16,950	\$149	\$2,885	\$4,948	—
Horsepower rating of prime movers and electric motors driven by purchased energy, total	296,697	540	5,409	908	555	17,719	1,170
Prime movers	250,423	540	5,409	150	554	17,614	959
Electric motors driven by purchased energy	46,274	—	—	758	1	105	211
Horsepower rating of electric motors driven by energy generated by reporting companies	19,389	25	100	—	—	597	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	17	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	22,059	—	—	148	127	—	1,020
Fuel oils (barrels of 42 gallons)	63,206	—	—	6	67	—	25
Gasoline and kerosene (gallons)	835,618	12,912	—	2,630	5,054	—	7,171
Natural gas (thousands of cubic feet)	33,579,991	4,363	708,915	—	—	2,787,880	—
Electric energy consumed (thousands of kw.-hrs.), total	123,915	3	298	126	—	3,270	54
Purchased	58,235	—	9	126	—	344	54
Generated by reporting companies	65,682	3	289	—	—	2,926	—

ITEM	Hughes	Latimer	Le Flore	Lincoln	Murray	Muskogee	Nowata
Number of operating companies 1	3	5	29	3	3	9	3
Number of mines and quarries	1	3	29	—	4	8	1
Number of preparation plants	2	—	—	3	4	6	5
Value of all products	\$132,160	\$17,629	\$577,959	\$163,350	\$568,665	\$155,546	\$25,096
Number of persons engaged, total	35	17	552	40	159	106	31
Wage earners (average for the year)	28	11	492	37	148	96	23
Salaries employees	4	2	38	3	10	3	8
Proprietors and firm members	3	4	22	—	1	7	—
Performing manual labor	3	1	15	—	—	6	—
Principal expenses designated below, total	\$80,629	\$21,362	\$503,659	\$102,665	\$214,962	\$93,245	\$37,081
Wages	\$38,773	\$6,062	\$341,520	\$57,314	\$126,297	\$56,354	\$20,513
Salaries	\$7,571	\$3,781	\$34,229	\$3,065	\$13,080	\$4,129	\$3,789
Supplies and materials	\$8,967	\$10,965	\$91,394	\$22,122	\$47,904	\$12,537	\$9,494
Fuel	\$24,550	\$395	\$4,126	\$17,503	\$15,583	\$5,433	\$2,120
Purchased electric energy	—	\$269	\$32,002	\$588	\$12,098	\$6,599	\$1,155
Contract work	\$764	—	\$588	\$2,661	—	\$6,193	—
Cost of buildings, machinery, and equipment erected or installed during year	\$246	—	\$6,960	\$37,162	—	\$10,508	—
Buildings	—	—	\$1,300	\$5,830	—	—	—
Machinery and equipment	\$246	—	\$5,660	\$31,332	—	\$10,508	—
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,405	150	6,028	3,017	2,178	1,885	660
Prime movers	2,405	115	1,685	3,017	1,173	1,490	480
Electric motors driven by purchased energy	—	35	4,343	—	1,005	425	200
Horsepower rating of electric motors driven by energy generated by reporting companies	143	—	—	—	—	15	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	115	1,546	—	649	258	—
Fuel oils (barrels of 42 gallons)	—	4	507	—	5	35	—
Gasoline and kerosene (gallons)	615	300	8,319	—	75,735	25,880	2,461
Natural gas (thousands of cubic feet)	605,000	—	—	315,741	—	6,778	52,833
Electric energy consumed (thousands of kw.-hrs.), total	878	7	1,333	156	635	300	40
Purchased	—	7	1,333	—	635	297	40
Generated by reporting companies	878	—	—	156	—	3	—

1 Excludes 2 mines for which statistics are included with those for the associated mills in Cherokee County, Kansas, and Newton County, Missouri.
 2 Companies with operations in more than 1 county are counted only once in the totals.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OKLAHOMA, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Oklahoma	Okmulgee	Osage	Ottawa	Pawnee	Payne	Pittsburg
Number of operating companies*	10	11	11	63	5	5	18
Number of mines and quarries	4	9	1	47	1	1	19
Number of preparation plants	16	2	18	36	4	5	1
Value of all products	\$4,159,594	\$459,978	\$2,399,772	\$10,744,024	\$75,214	\$91,921	\$452,082
Number of persons engaged, total	507	250	359	3,062	25	29	336
Wage earners (average for the year)	451	222	325	2,746	21	27	302
Salaried employees	75	25	52	314	4	2	22
Proprietors and firm members	3	3	22	22	1	—	12
Performing manual labor	—	3	—	11	—	—	5
Principal expenses designated below, total	\$1,569,110	\$374,492	\$1,064,547	\$6,504,496	\$44,719	\$51,131	\$393,908
Wages	\$669,474	\$239,721	\$499,793	\$2,999,074	\$21,747	\$29,096	\$295,219
Salaries	\$159,704	\$44,321	\$67,044	\$39,213	\$10,902	\$2,200	\$29,096
Supplies and materials	\$247,220	\$55,567	\$236,990	\$2,154,551	\$5,256	\$5,482	\$79,759
Fuel	\$404,624	\$5,322	\$229,359	\$196,186	\$5,930	\$6,794	\$7,613
Purchased electric energy	\$47,100	\$24,611	\$2,874	\$522,796	\$211	\$1,579	\$14,621
Contract work	\$51,798	\$6,790	\$50,417	\$124,379	\$793	\$9,100	—
Cost of buildings, machinery, and equipment erected or installed during year	\$119,039	\$12,288	\$119,559	\$290,217	\$16,454	\$112,579	\$6,725
Buildings	\$11,141	\$1,184	\$3,518	\$124,969	\$16,454	\$5,000	\$1,212
Machinery and equipment	\$107,898	\$11,104	\$115,721	\$155,248	—	\$107,579	\$5,513
Horsepower rating of prime movers and electric motors driven by purchased energy, total	59,578	3,631	29,118	48,883	1,455	1,590	4,947
Prime movers	57,295	1,240	29,018	25,041	1,220	1,545	2,249
Electric motors driven by purchased energy	1,283	2,391	100	23,842	235	45	2,598
Horsepower rating of electric motors driven by energy generated by reporting companies	659	150	932	7,512	—	—	—
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	—	—	—	9	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	850	—	4,541	—	—	5,123
Fuel oils (barrels of 42 gallons)	238	—	—	51,872	—	—	245
Gasoline and kerosene (gallons)	5,000	—	—	405,124	—	11,468	6,050
Natural gas (thousands of cubic feet)	11,666,777	118,796	6,257,202	286,052	142,405	146,556	—
Electric energy consumed (thousands of kw.-hrs.), total	9,997	2,109	6,354	62,027	81	142	492
Purchased	5,721	982	133	41,353	4	142	452
Generated by reporting companies	4,276	1,127	6,221	20,694	77	—	—

ITEM	Pontotoc	Pottawatomie	Rogers	Seminole	Tulsa	Wagoner	Washington	All other*
Number of operating companies*	6	4	3	13	26	5	4	26
Number of mines and quarries	4	—	2	3	19	4	1	16
Number of preparation plants	5	4	1	23	22	3	4	26
Value of all products	\$1,568,447	\$1,122,551	\$117,540	\$3,484,570	\$386,095	\$854,949	\$99,805	\$2,202,733
Number of persons engaged, total	190	109	60	472	363	154	88	633
Wage earners (average for the year)	172	102	49	420	199	142	23	585
Salaried employees	17	7	8	80	155	11	55	45
Proprietors and firm members	1	—	3	2	11	1	—	16
Performing manual labor	—	—	5	2	3	1	—	2
Principal expenses designated below, total	\$665,937	\$604,012	\$65,948	\$1,497,118	\$592,253	\$451,465	\$229,351	\$1,187,214
Wages	\$266,896	\$178,496	\$43,125	\$720,376	\$134,446	\$179,724	\$40,679	\$398,699
Salaries	\$37,359	\$17,970	\$9,960	\$108,082	\$57,551	\$39,023	\$159,731	\$97,596
Supplies and materials	\$180,159	\$167,409	\$25,580	\$562,556	\$96,129	\$136,711	\$22,402	\$254,327
Fuel	\$156,843	\$117,751	\$11,674	\$246,657	\$15,279	\$6,614	\$9,569	\$210,667
Purchased electric energy	\$3,420	\$4,573	\$611	\$11,240	\$16,839	\$46,159	—	\$30,076
Contract work	\$19,280	\$117,613	—	\$46,207	—	\$19,535	—	\$25,257
Cost of buildings, machinery, and equipment erected or installed during year	\$69,719	\$52,788	\$27,489	\$61,228	\$27,416	\$19,774	\$21,286	\$162,576
Buildings	\$40,572	\$20,695	\$782	\$4,551	\$12,956	—	—	\$17,691
Machinery and equipment	\$29,147	\$32,091	\$26,707	\$56,675	\$14,460	\$19,774	\$21,286	\$144,885
Horsepower rating of prime movers and electric motors driven by purchased energy, total	20,199	8,869	545	42,472	6,744	4,704	628	23,620
Prime movers	20,068	8,829	480	41,901	5,054	1,761	628	20,565
Electric motors driven by purchased energy	131	40	65	571	1,690	2,943	—	5,055
Horsepower rating of electric motors driven by energy generated by reporting companies	3,240	219	—	3,018	700	—	1,215	896
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	—	—	—	—	761	150	855	1,563
Bituminous coal (tons of 2,000 pounds)	1,234	—	4,159	—	613	7	—	4,537
Fuel oils (barrels of 42 gallons)	5,447	—	52,851	6,790	19,839	39,671	—	197,798
Gasoline and kerosene (gallons)	—	—	20,467	5,777,232	146,009	12,270	41,294	3,146,368
Natural gas (thousands of cubic feet)	2,608,348	1,727,955	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	10,035	987	20	14,063	1,011	5,177	1,769	4,585
Purchased	144	400	20	798	996	5,177	—	1,337
Generated by reporting companies	9,891	587	—	13,224	315	—	1,769	3,228

*Companies with operations in more than 1 county are counted only once in the totals.

*Alfalfa, Atoka, Beaver, Beckham, Cherokee, Comanche, Custer, Delaware, Dewey, Garfield, Greer, Harmon, Johnston, Kay, Kiowa, Logan, Major, Noble, Okfuskee, Sequoyah, and Woodward.

OREGON

Oregon ranked thirty-eighth among the States in value of products of mineral industries in 1939, and thirty-ninth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 145 percent of that in 1929, and the number of wage earners 161 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 225 percent of that in 1919, and the number of wage earners 138 percent. Differences between the totals for 1939 and the two previous census years are accounted for chiefly by increases in the gold industry. Total horsepower rating of power equipment at mineral operations in 1939 was 253 percent of that in 1929, and 283 percent of that in 1919.

The gold industry (including both lode and placer operations) ranked first among the mineral industries in the State

in 1939, accounting for 55 percent of the total value of products and for 52 percent of the total number of wage earners employed. (See table 2.) The common sand and gravel industry ranked second with 17 percent of the total value of products and 19 percent of the wage earners. The State accounted for 7 percent of the total value of products of placer-gold operations in the United States and for 24 percent of the total for the mercury industry. Oregon ranked second among all States in value of products in the mercury and diatomite industries. (See reports for these industries.)

Other mineral industries in the State were bituminous coal, limestone, basalt, sandstone, miscellaneous stone, common clay and shale, and natural abrasives. Mineral operations were located in 26 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN OREGON: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and nat- ural-gasoline industries)		1919 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1919 ¹	1919
Number of mines and quarries-----	125	119	65	88	52
Value of all products-----	\$5,120,560	\$5,100,145	\$5,512,125	\$4,245,545	\$1,884,871
Number of persons engaged, total-----	1,465	1,475	905	1,181	847
Wage earners (average for the year)-----	1,257	1,253	776	1,019	740
Salaried employees-----	156	153	100	114	70
Proprietors and firm members-----	70	69	29	48	37
Performing manual labor-----	35	35	(²)	29	20
Principal expenses designated below, total-----	\$2,184,197	\$2,172,598	\$2,187,946	\$2,595,784	\$1,856,087
Wages-----	\$1,580,276	\$1,576,220	\$1,172,421	\$1,291,405	\$998,957
Salaries-----	\$317,128	\$315,755	\$253,772	\$245,804	\$147,821
Supplies and materials-----	\$364,215	\$365,410	\$420,572	\$749,565	\$545,949
Fuel-----	\$254,101	\$251,325	\$166,747	\$202,748	\$68,689
Purchased electric energy-----	\$162,815	\$162,225	\$99,415	\$104,984	\$64,705
Contract work-----	\$5,667	\$5,667	\$95,019	\$5,278	\$55,888
Cost of machinery and equipment installed during year-----	\$215,762	\$214,662	\$144,863	\$186,359	(²)
Horsepower rating of power equipment, total-----	52,405	52,140	12,707	17,751	6,264
Per wage earner-----	25.8	25.7	16.4	17.4	8.5
Prime movers-----	20,661	20,711	5,069	15,225	1,579
Electric motors driven by purchased energy-----	11,524	11,429	7,638	4,508	4,685
Electric energy consumed (thousands of kw.-hrs.), total-----	15,439	15,401	7,951	12,200	(²)
Purchased-----	11,216	11,178	7,085	8,004	(²)
Generated by reporting companies-----	4,223	4,223	916	4,196	(²)

¹ Includes 1 mine and 1 quarry in the limestone industry operated in conjunction with cement plants. Such mines and quarries were not included in the census of mineral industries for 1919.

² Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OREGON, BY INDUSTRY: 1939

(For producing and nonproducing operations only; no contract-service operations were classified in the State.)

ITEM	All operations in all industries	PRODUCING OPERATIONS											Non-producing operations
		Total	Metallic ores			Stone				Common sand and gravel	Common clay and shale	Bituminous coal, diatomite, and natural abrasives ¹	
			Gold		Mercury	Crushed and broken limestone	Crushed and broken basalt	Other ²					
			Lode	Placer									
Number of operating companies ³ -----	119	114	10	30	8	3	18	4	29	3	4	5	
Number of mines and quarries-----	128	123	18	28	8	4	22	4	31	4	4	5	
Number of preparation plants-----	81	80	12	-----	8	3	21	2	31	-----	3	1	
Value of all products ⁴ -----	\$5,120,360	\$5,120,360	\$282,234	\$1,856,157	\$438,199	\$163,716	\$404,065	\$295,876	\$656,802	\$20,215	\$104,116	-----	
Number of persons engaged, total-----	1,546	* 1,485	446	295	125	57	130	68	299	5	32	61	
Wage earners (average for the year)-----	1,306	1,257	412	246	102	54	96	81	234	4	26	52	
Number receiving pay during pay-roll period ending nearest the 15th of:													
January-----	1,032	996	305	240	88	40	96	22	185	1	20	34	
February-----	1,060	1,027	343	251	88	31	83	26	182	1	20	33	
March-----	1,147	1,122	323	272	91	31	81	59	235	1	20	35	
April-----	1,243	1,216	359	264	95	55	61	78	251	4	20	28	
May-----	1,334	1,316	404	268	105	64	66	90	262	6	22	16	
June-----	1,408	1,369	460	257	101	68	66	86	267	4	26	15	
July-----	1,405	1,364	472	242	96	66	66	89	279	4	25	41	
August-----	1,438	1,358	456	245	95	66	66	104	269	7	26	40	
September-----	1,407	1,315	450	241	108	24	114	106	244	7	28	44	
October-----	1,446	1,351	479	226	119	42	116	105	220	6	56	35	
November-----	1,457	1,365	462	225	122	60	113	113	212	4	56	32	
December-----	1,559	1,270	401	223	120	76	107	96	208	4	37	69	
Salaried employees-----	167	* 159	21	56	21	3	21	2	44	-----	3	9	
Proprietors and firm members-----	70	* 70	13	13	2	-----	11	5	21	1	3	-----	
Performing manual labor-----	35	35	11	9	2	-----	3	2	6	-----	2	-----	
Principal expenses designated below, total-----	\$5,268,406	* \$5,184,167	\$787,006	\$1,006,860	\$242,545	\$106,708	\$185,096	\$185,956	\$580,182	\$2,321	\$78,276	\$24,209	
Wages-----	\$1,626,723	\$1,580,276	\$432,632	\$417,225	\$127,246	\$69,103	\$104,971	\$124,121	\$284,815	\$4,056	\$16,127	\$46,447	
Salaries-----	\$227,922	* \$217,123	\$46,824	\$60,143	\$49,285	\$7,253	\$13,562	\$6,631	\$75,519	-----	\$24,750	\$10,799	
Supplies and materials-----	\$677,042	\$664,215	\$255,285	\$254,633	\$32,154	\$33,166	\$95,917	\$25,659	\$115,641	\$801	\$6,695	\$12,627	
Fuel-----	\$258,568	\$254,101	\$29,731	\$76,162	\$22,072	\$2,326	\$18,547	\$17,868	\$48,175	\$2,778	\$18,052	\$4,467	
Purchased electric energy-----	\$162,974	\$162,615	\$11,871	\$64,544	\$5,746	\$4,860	\$4,592	\$6,697	\$27,239	\$562	\$10,674	\$159	
Contract work-----	\$15,177	\$5,667	\$665	\$1,163	-----	-----	\$450	-----	\$2,569	-----	-----	\$9,510	
Cost of buildings, machinery, and equipment erected or installed during year-----	\$21,654	\$20,068	\$105,967	\$76,914	\$2,012	\$24,562	\$15,525	\$6,559	\$43,276	\$1,100	\$250	\$21,586	
Buildings-----	\$66,809	\$64,306	\$24,257	\$2,135	\$27,205	-----	\$1,500	\$4,135	\$14,976	-----	\$200	\$2,502	
Machinery and equipment, total-----	\$234,845	\$215,762	\$71,710	\$78,779	\$4,809	\$14,562	\$14,225	\$4,424	\$28,308	\$1,100	\$50	\$16,062	
Purchased in new condition-----	\$184,869	\$177,877	\$67,641	\$74,978	\$4,427	-----	\$10,060	\$1,500	\$18,181	\$1,100	-----	\$6,992	
Purchased in used condition-----	\$49,976	\$37,885	\$4,069	\$4,801	\$382	\$4,562	\$4,175	\$2,924	\$10,122	-----	\$50	\$2,061	
Number of man-hours worked by wage earners-----	2,571,696	2,546,082	755,552	622,541	211,802	110,596	162,309	152,958	469,006	4,698	61,640	123,614	
Average hourly earning of wage earners-----	\$0.61	\$0.62	\$0.57	\$0.67	\$0.60	\$0.62	\$0.65	\$0.61	\$0.61	\$0.66	\$0.28	\$0.38	
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	53,101	52,405	2,740	6,068	735	1,565	4,801	1,413	14,409	265	408	696	
Per wage earner-----	25.3	25.8	6.7	24.7	7.2	29.0	49.0	17.4	61.6	66.3	15.7	13.4	
Prime movers-----	21,567	20,881	1,993	4,606	585	710	4,165	1,069	7,488	170	78	466	
Electric motors driven by purchased energy-----	11,734	11,524	747	1,462	150	855	636	325	6,921	95	331	210	
Horsepower rating of electric motors driven by energy generated by reporting companies-----	3,575	3,275	1,975	774	120	-----	346	-----	60	-----	-----	100	
Fuels consumed: ⁷													
Anthracite (tons of 2,000 pounds)-----	1	1	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	
Bituminous coal (tons of 2,000 pounds)-----	450	450	-----	-----	-----	-----	-----	450	-----	-----	-----	-----	
Fuel oils (barrels of 42 gallons)-----	65,717	64,954	10,070	13,507	10,777	51	1,182	9,500	12,747	-----	7,289	782	
Gasoline and kerosene (gallons)-----	486,049	473,664	14,310	150,638	13,049	10,442	81,752	4,027	198,811	2,971	16,666	12,385	
Electric energy consumed (thousands of kw.-hrs.), total-----	15,443	15,429	2,971	6,946	795	400	211	106	3,201	38	769	4	
Purchased-----	11,220	11,216	619	5,557	401	400	180	106	3,174	38	769	4	
Generated by reporting companies-----	4,223	4,223	2,352	1,389	394	-----	61	-----	27	-----	-----	-----	

¹Represents 1 rough-dimension basalt quarry, 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 1 rough-dimension sandstone quarry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.²Represents 1 bituminous-coal mine, 2 mines and 2 mills in the diatomite industry, and 1 mine and 1 preparation plant in the natural-abrasives industry.³Represents 1 lode-gold mine, 1 chromite mine, 1 mercury mine, 1 quarry and 1 crushing plant in the rough-dimension granite industry, and 1 major nonferrous-ore mine not classified by industry.⁴Companies with operations in more than 1 industry are counted only once in the totals.⁵Includes amounts received or due for contract services performed during the year.⁶Includes statistics for central-office employees in the crude-petroleum and natural-gas, natural-gasoline, and lead-ore industries.⁷No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN OREGON, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Baker	Benton	Clackamas	Coco	Crook	Douglas	Grant	Jackson
Number of operating companies ¹	114	17	5	4	4	3	4	11	16
Number of mines and quarries	125	15	5	4	4	3	4	10	15
Number of preparation plants	80	4	2	4	5	5	5	5	8
Value of all products	\$5,120,860	\$1,475,875	\$35,209	\$127,702	\$51,079	\$6,785	\$542,558	\$1,054,062	\$245,180
Number of persons engaged, total	1,486	419	24	47	26	9	117	191	65
Wage earners (average for the year)	1,257	391	17	36	20	6	104	167	69
Salaried employees	158	22	4	6	2	1	11	15	10
Proprietors and firm members	70	6	5	4	4	2	2	9	6
Performing manual labor	25	5	1	1	1	2	5	5	5
Principal expenses designated below, total	\$3,184,197	\$932,527	\$35,301	\$71,988	\$35,751	\$11,602	\$272,558	\$316,895	\$150,240
Wages	\$1,580,276	\$459,785	\$18,927	\$35,695	\$20,825	\$9,102	\$152,517	\$271,015	\$77,282
Salaries	\$317,125	\$58,188	\$4,000	\$7,900	\$4,125	\$150	\$24,556	\$41,205	\$19,240
Supplies and materials	\$964,215	\$217,191	\$5,445	\$18,028	\$5,548	\$1,525	\$62,068	\$229,656	\$35,582
Fuel	\$254,101	\$46,590	\$5,559	\$5,715	\$4,490	\$825	\$29,796	\$52,957	\$9,705
Purchased electric energy	\$162,815	\$50,580	\$1,372	\$8,452	\$965		\$3,619	\$22,062	\$3,856
Contract work	\$6,667	\$195							\$15
Cost of buildings, machinery, and equipment erected or installed during year	\$500,068	\$115,875	\$11,125	\$4,610		\$4,705	\$29,619	\$37,473	\$10,106
Buildings	\$64,506	\$29,671	\$2,500	\$2,000		\$400	\$28,719	\$6,125	\$2,848
Machinery and equipment	\$435,562	\$86,204	\$8,625	\$2,610		\$4,305	\$2,900	\$31,350	\$7,258
Horsepower rating of prime movers and electric motors driven by purchased energy, total	32,405	4,110	1,104	1,557	712	171	2,748	3,100	1,627
Prime movers	20,881	2,662	954	547	419	171	2,573	2,372	1,040
Electric motors driven by purchased energy	11,524	1,448	150	1,010	293		375	728	487
Horsepower rating of electric motors driven by energy generated by reporting companies	3,275	1,975	140					546	45
Fuels consumed: ²									
Anthracite (tons of 2,000 pounds)	1								
Bituminous coal (tons of 2,000 pounds)	450						450		
Fuel oils (barrels of 42 gallons)	64,964	10,811	129		191	155	14,011	8,594	1,928
Gasoline and kerosene (gallons)	475,664	58,465	5,800	25,028	20,250	1,600	12,590	77,052	18,649
Electric energy consumed (thousands of kw.-hrs.), total	15,459	7,102	110	365	54		218	2,675	420
Purchased	11,216	4,505	66	365	54		218	1,610	396
Generated by reporting companies	4,223	2,597	52					1,065	28

ITEM	Josephine	Klamath	Lane	Lincoln	Malheur	Marion	Multnomah	Polk	All other ³
Number of operating companies ¹	9	4	4	3	4	5	9	5	14
Number of mines and quarries	9	4	4	3	5	5	11	5	22
Number of preparation plants	5	4	5	3	2	4	8	2	21
Value of all products	\$255,898	\$75,715	\$156,693	\$29,900	\$11,298	\$97,123	\$348,932	\$75,268	\$573,285
Number of persons engaged, total	97	21	100	9	10	28	102	28	172
Wage earners (average for the year)	85	15	88	6	6	20	72	25	132
Salaried employees	9	4	10		1	7	26	3	27
Proprietors and firm members	5	2	2	3	3	1	4		13
Performing manual labor	3		5	3			1		6
Principal expenses designated below, total	\$174,075	\$31,512	\$143,295	\$17,688	\$11,740	\$55,260	\$247,395	\$54,538	\$325,696
Wages	\$101,064	\$19,108	\$81,074	\$5,990	\$3,512	\$22,729	\$110,582	\$50,286	\$159,567
Salaries	\$15,508	\$3,651	\$17,233	\$1,702	\$1,702	\$11,430	\$58,223	\$5,477	\$44,240
Supplies and materials	\$42,969	\$5,755	\$11,800	\$7,839	\$1,463	\$10,145	\$37,585	\$15,055	\$61,199
Fuel	\$6,442	\$5,040	\$24,752	\$5,859	\$2,043	\$4,155	\$15,957	\$2,968	\$39,446
Purchased electric energy	\$5,512	\$2,096	\$7,961		\$6,801	\$2,661	\$2,569	\$2,752	\$18,744
Contract work	\$1,683		\$455						\$450
Cost of buildings, machinery, and equipment erected or installed during year	\$12,696		\$272	\$4,750	\$1,550	\$3,557	\$15,765	\$2,150	\$18,215
Buildings	\$1,875		\$16	\$300	\$354		\$5,100		\$5,420
Machinery and equipment	\$10,821		\$256	\$4,450	\$1,018	\$3,557	\$7,665	\$2,150	\$12,795
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,613	658	1,188	901	184	1,703	5,577	555	4,907
Prime movers	1,150	457	700	901	184	488	5,054	195	3,434
Electric motors driven by purchased energy	663	181	488			1,215	2,545	460	1,475
Horsepower rating of electric motors driven by energy generated by reporting companies	183	175			70	51			110
Fuels consumed: ²									
Anthracite (tons of 2,000 pounds)									1
Bituminous coal (tons of 2,000 pounds)									
Fuel oils (barrels of 42 gallons)	2,044		5,079		160	150	11,092	51	10,589
Gasoline and kerosene (gallons)	8,532	13,577	78,000	25,382	8,610	22,777	10,760	14,270	94,832
Electric energy consumed (thousands of kw.-hrs.), total	271	75	652			370	1,549	85	1,495
Purchased	220	67	652			367	1,547	85	1,076
Generated by reporting companies	51	8				3	2		419

¹ Companies with operations in more than 1 county are counted only once in the totals.² No natural gas was reported consumed.³ Clatsop, Columbia, Deschutes, Hood River, Jefferson, Lake, Linn, Sherman, Washington, and Yamhill.

PENNSYLVANIA

Pennsylvania ranked second among all States in value of products of mineral industries in 1939 and first in number of wage earners employed, accounting for more than one-fourth of the wage earners in all States.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 59 percent of that in 1929, and the number of wage earners 67 percent. (See table 1.) For industries surveyed in both 1939 and 1919 the 1939 value of products was 55 percent of that in 1919 and the number of wage earners 59 percent. These declines are accounted for largely by decreases in the anthracite and bituminous-coal industries. Total horsepower rating of power equipment at mineral operations in 1939 was 97 percent of that in 1929, and 113 percent of that in 1919.

The anthracite and bituminous-coal industries together accounted for 83 percent of the total value of products of mineral industries in the State. (See table 2.) The bituminous-coal industry reported the larger tonnage mined and almost half the total number of persons engaged in mineral industries

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

in the State. Crude-petroleum and natural-gas operations accounted for 10 percent of the value of products, and 3 percent of the wage earners. Pennsylvania produced practically all the anthracite mined in the United States; the State accounted for 24 percent of the bituminous coal produced in the bituminous-coal industry in the United States and was second only to West Virginia in 1939 in tonnage produced, wage earners employed, and value of products in that industry. Pennsylvania also ranked first among all States in value of products in the limestone, sandstone, slate, glass-sand, and fire-clay industries; second in the common clay and shale industry; and fourth in the common sand and gravel industry. (See reports for these industries.)

Other mineral industries in the State were natural gasoline, iron ore, copper ore, granite, basalt, miscellaneous stone, foundry sand, kaolin and ball clay, talc and soapstone, and tripoli. Mineral operations (other than oil and gas wells) were located in 65 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN PENNSYLVANIA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and natural-gasoline industries)		1919 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1919 ¹	1919
Number of mines and quarries-----	2,271	2,212	2,196	2,142	3,621
Number of oil and gas wells producing at end of year-----	65,484			65,484	77,325
Number of natural-gasoline plants-----	107			107	319
Value of all products-----	\$458,058,017	\$411,791,391	\$694,975,146	\$450,859,245	\$813,940,676
Number of persons engaged, total-----	207,494	186,597	280,767	205,807	350,338
Wage earners (average for the year)-----	192,026	185,529	278,492	190,649	323,597
Salaried employees-----	15,142	11,741	15,382	12,666	18,119
Proprietors and firm members-----	2,326	1,527	913	2,262	8,622
Performing manual labor-----	1,159	907	(²)	1,155	2,126
Principal expenses designated below, total-----	\$352,535,756	\$352,422,670	\$551,450,423	\$346,829,472	\$634,678,278
Wages-----	\$243,511,544	\$235,029,961	\$402,957,768	\$241,865,906	\$445,216,642
Salaries-----	\$50,559,068	\$26,969,294	\$23,776,246	\$29,944,062	\$34,964,475
Supplies and materials-----	\$50,947,186	\$48,665,221	\$77,599,969	\$50,125,996	\$118,617,354
Fuel-----	\$6,124,587	\$5,248,145	\$11,602,611	\$7,806,413	\$21,618,407
Purchased electric energy-----	\$14,048,182	\$13,627,857	\$17,105,061	\$13,738,973	\$5,668,996
Contract work-----	\$5,565,241	\$1,481,304	\$7,486,808	\$5,551,175	\$7,870,425
Cost of machinery and equipment installed during year-----	\$14,105,176	\$11,566,857	\$15,801,590	\$15,622,509	(²)
Horsepower rating of power equipment, total-----	2,501,660	2,121,522	2,169,218	2,256,069	1,999,422
Per wage earner-----	12.0	11.4	7.9	11.8	6.2
Prime movers-----	873,592	804,471	873,046	950,218	1,638,599
Electric motors driven by purchased energy-----	1,328,268	1,316,851	1,316,172	1,305,851	360,823
Electric energy consumed (thousands of kw.-hrs.), total-----	1,637,477	1,618,154	1,879,772	1,619,976	(²)
Purchased-----	1,256,512	1,222,066	1,276,191	1,220,049	(²)
Generated by reporting companies-----	600,965	596,088	600,581	599,927	(²)

¹Includes 48 limestone mines and quarries, with products valued at \$4,525,172, operated in conjunction with cement and lime plants. Such mines and quarries were not included in the census of mineral industries for 1919.

²Not available.

³Includes 5,553 horsepower for equipment operated by purchased power other than electric.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Fuels				Stone	
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Anthracite ⁴	Crushed and broken	
							Limestone	Granite
1 Number of operating companies ¹	2,672	2,524	726	70	1,046	346	157	6
2 Number of mines and quarries	2,296	2,271			1,258	507	184	6
3 Number of oil and gas wells producing on December 31, 1939	65,484	65,484	65,484					
4 Number of preparation plants	663	658		107	52	192	162	6
5 Value of all products ²	\$462,028,141	\$458,038,017	\$45,092,696	\$593,872	\$186,925,506	\$189,647,913	\$14,554,976	\$342,156
6 Number of persons engaged, total	209,500	³ 207,494	6,485	147	99,352	88,520	4,881	161
7 Wage earners (average for the year)	195,458	192,026	6,308	134	93,053	82,822	4,596	138
8 Number receiving pay during pay-roll period ending nearest the 15th of:								
9 January	202,789	201,671	6,193	131	103,585	84,160	3,155	56
10 February	205,142	204,002	6,050	131	104,585	85,595	3,512	89
11 March	204,217	202,866	6,134	134	102,538	85,784	3,756	114
12 April	116,481	115,109	6,084	133	13,764	85,799	4,274	143
13 May	157,938	156,521	6,327	135	55,449	84,746	4,515	180
14 June	194,750	191,542	6,269	131	92,599	82,015	4,825	161
15 July	184,141	182,815	6,232	117	92,683	75,397	4,852	159
16 August	188,728	187,285	6,322	129	95,550	74,669	4,856	146
17 September	202,620	201,517	6,441	134	105,764	80,171	5,029	141
18 October	221,339	219,690	6,559	141	116,428	85,535	5,064	132
19 November	224,464	222,751	6,627	142	118,628	86,530	4,795	189
20 December	220,701	218,969	6,473	150	117,029	85,319	4,568	168
21 Salaried employees	12,508	³ 12,142	1,366	12	5,294	5,411	567	16
22 Proprietors and firm members	2,534	2,526	791	1	1,025	287	116	7
23 Performing manual labor	1,268	1,159	250	1	671	159	51	3
24 Principal expenses designated below, total	¹⁰ \$355,019,171	¹¹ \$352,531,756	\$19,274,487	\$475,365	\$156,612,184	¹¹ \$155,787,311	\$9,584,425	\$228,500
25 Wages	\$245,270,860	\$245,511,544	\$8,066,638	\$155,486	\$116,998,537	\$107,445,669	\$5,040,517	\$159,377
26 Salaries	\$50,876,155	¹² \$50,559,066	\$2,545,542	\$19,555	\$12,449,367	\$12,122,606	\$865,772	\$29,205
27 Supplies and materials	¹⁰ \$51,069,614	¹¹ \$50,947,186	\$1,963,572	\$46,715	\$19,350,490	\$25,411,553	\$1,995,435	\$28,756
28 Fuel	¹⁰ \$9,182,738	¹¹ \$9,124,537	\$1,628,454	\$235,810	\$1,189,293	\$3,686,950	\$564,262	\$17,414
29 Purchased electric energy	¹⁰ \$14,206,129	¹¹ \$14,048,162	\$190,740	\$5,586	\$5,904,541	\$6,386,676	\$741,190	\$13,566
30 Contract work	¹¹ \$6,355,075	¹² \$6,355,241	\$5,859,941	\$12,261	\$722,156	¹¹ \$531,857	\$129,449	
31 Cost of buildings, machinery, and equipment erected or installed during year	¹⁰ \$17,735,866	\$17,699,168	\$2,805,487	\$36,455	\$7,564,162	\$4,948,930	\$1,244,767	\$16,335
32 Buildings	¹⁴ \$3,612,861	\$3,595,992	\$116,204	\$4,964	\$1,275,792	\$1,755,186	\$191,693	\$70
33 Machinery and equipment, total	¹⁴ \$14,104,051	\$14,103,176	\$2,689,283	\$31,501	\$6,288,370	\$3,193,744	\$1,053,064	\$17,965
34 Purchased in new condition	¹⁴ \$12,801,873	\$12,800,998	\$2,570,746	\$31,051	\$5,574,909	\$2,873,704	\$797,259	\$16,965
35 Purchased in used condition	¹⁴ \$1,302,178	\$1,298,178	\$118,537	\$450	\$513,461	\$320,040	\$255,805	\$1,000
36 Number of man-hours worked by wage earners	296,599,132	294,100,604	11,566,600	216,885	159,642,242	125,968,647	8,661,067	280,962
37 Average hourly earning of wage earners	\$0.83	\$0.65	\$0.70	\$0.71	\$0.84	\$0.87	\$0.58	\$0.50
38 Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,395,662	2,501,660	170,871	4,956	829,350	1,037,216	137,487	2,342
39 For wage earner	12.4	12.0	27.1	57.0	8.9	12.5	51.3	17.0
40 Prime movers	1,019,443	975,392	161,532	4,699	206,966	491,794	58,542	1,285
41 Electric motors driven by purchased energy	1,376,219	1,526,268	9,339	257	622,384	545,422	78,945	1,057
42 Horsepower rating of electric motors driven by energy generated by reporting companies	596,366	596,065	1,695	581	209,195	566,255	13,363	
43 Fuels consumed:								
44 Anthracite (tons of 2,000 pounds)	¹⁴ 2,331,505	2,327,134	4			2,524,315	2,160	
45 Bituminous coal (tons of 2,000 pounds)	¹⁴ 651,917	651,917	1,182		490,816	4,705	50,354	745
46 Fuel oils (barrels of 42 gallons)	¹⁴ 215,614	215,614	17,968	739	32,470	82,501	48,240	200
47 Gasoline and kerosene (gallons)	¹⁴ 9,755,005	9,754,669	410,685	55	1,080,149	4,104,574	2,651,706	93,720
48 Natural gas (thousands of cubic feet)	¹⁴ 6,676,235	6,643,219	5,756,465	860,670	26,904		3,799	
49 Electric energy consumed (thousands of kw.-hrs.), total	¹⁴ 1,655,755	1,637,477	17,256	703	754,998	951,444	70,833	664
50 Purchased	¹⁴ 1,252,685	1,236,612	12,932	250	525,461	577,284	61,739	664
51 Generated by reporting companies	¹⁴ 403,070	400,865	4,324	453	229,537	374,160	9,094	

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Figures for anthracite stripping contractors (representing contractors engaged in work at strip pits and culm banks) are excluded from this column and included under "Anthracite."

² Represents operations of 1 company in the crude-petroleum and natural-gas industry, 14 bituminous-coal mines, and 11 mines and 5 preparation plants in the Pennsylvania anthracite industry.

³ Represents 4 mines and 2 beneficiating plants in the iron-ore industry, 1 copper-ore mill, 2 rough-dimension basalt quarries, 1 mine and 1 preparation plant in the talc and soapstone industry, and 1 mill in the tripoli industry.

⁴ Except as noted, statistics are included for 86 anthracite stripping contractors, one of whom is also a mine operator and is counted only once in the total number of operating companies.

⁵ 2 rough-dimension basalt quarries are included under "All other" to avoid disclosure of confidential information.

⁶ Represents 1 quarry and 1 crushing plant in the crushed and broken slate industry, and 1 mine, 7 quarries, and 7 crushing plants in the crushed and broken miscellaneous stone industry.

INDUSTRIES IN PENNSYLVANIA, BY INDUSTRY: 1939

PRODUCING OPERATIONS—Continued																
Stone—Continued							Sand and gravel			Clay and shale			All other ³	Contract-service operations ¹	Non-producing operations ²	
Crushed and broken—Continued			Rough dimension ⁴				Common sand and gravel	Glass sand	Foundry sand	Kaolin and ball clay	Fire clay	Common clay and shale				
Basalt	Sandstone	Slate and miscellaneous ⁵	Limestone	Granite	Sandstone	Slate										
9	30	8	4	10	6	24	48	4	12	6	45	55	6	188	19	
10	35	9	4	10	6	24	53	5	12	6	78	59	7	---	25	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
10	24	8	1	---	1	---	53	5	5	5	11	11	5	---	5	
\$808,219	\$1,544,064	\$885,115	\$14,756	\$116,848	\$49,608	\$1,156,750	\$5,012,080	\$1,285,986	\$320,648	\$185,250	\$2,114,458	\$360,098	\$4,854,508	\$3,990,126	---	
232	696	241	11	84	47	518	948	558	118	94	1,258	285	1,015	1,606	201	
195	637	210	7	74	38	465	774	256	82	88	1,164	255	943	1,211	121	
170	455	139	4	72	29	419	601	222	52	84	1,064	211	891	985	155	
145	427	146	4	67	26	373	608	234	48	86	1,055	184	887	968	142	
158	474	172	6	68	40	435	632	257	59	76	1,125	256	900	1,209	142	
177	569	236	7	70	42	458	735	252	85	76	1,017	266	906	1,276	96	
197	800	219	7	75	45	475	806	250	95	88	1,129	282	922	1,315	102	
211	636	229	8	75	41	478	849	251	91	95	1,121	290	967	1,281	97	
209	705	241	8	80	35	495	890	259	96	84	1,055	267	955	1,235	91	
222	698	231	9	85	36	506	872	257	99	80	1,117	265	958	1,336	107	
226	755	225	9	78	36	508	888	256	111	84	1,242	257	966	1,385	120	
229	829	259	9	79	41	496	865	265	128	94	1,296	255	966	1,527	122	
200	799	220	8	77	45	484	808	284	145	99	1,594	256	995	1,582	151	
191	703	215	6	71	46	461	754	285	88	89	1,575	246	972	1,591	141	
29	54	28	---	5	6	39	159	101	15	6	80	5	70	88	78	
8	5	5	4	7	5	14	15	1	11	5	14	7	2	206	2	
4	5	1	1	2	2	4	4	1	---	2	---	2	1	---	2	
\$495,175	\$1,053,702	\$571,891	\$9,167	\$32,885	\$47,948	\$750,718	\$2,430,186	\$792,435	\$127,477	\$106,142	\$1,590,095	\$356,206	\$2,167,407	\$2,815,820	\$567,595	
\$204,522	\$511,728	\$219,515	\$7,069	\$55,604	\$32,186	\$456,551	\$1,012,647	\$512,428	\$60,997	\$51,285	\$1,178,898	\$259,569	\$1,194,720	\$1,598,519	\$180,087	
\$51,485	\$84,806	\$39,555	---	\$4,532	\$6,500	\$87,795	\$95,547	\$171,515	\$25,076	\$10,679	\$14,018	\$4,875	\$250,552	\$194,027	\$145,062	
\$130,464	\$191,341	\$239,151	\$750	\$5,461	\$4,558	\$88,343	\$395,524	\$146,790	\$28,025	\$19,498	\$177,377	\$51,878	\$432,894	\$280,649	\$61,775	
\$89,884	\$66,257	\$18,802	\$488	\$4,871	\$5,507	\$47,246	\$258,955	\$64,256	\$5,805	\$10,457	\$15,562	\$14,130	\$54,556	\$42,541	\$15,860	
\$60,151	\$62,969	\$48,561	\$500	\$2,595	\$1,599	\$50,671	\$186,514	\$89,215	\$6,465	\$4,506	\$4,178	\$24,019	\$22,559	\$12,84	\$15,965	
\$6,671	\$16,599	\$5,506	\$360	---	---	\$20,512	\$6,979	\$5,252	\$130	\$9,714	\$23,225	\$1,735	\$12,526	(13)	\$29,854	
\$23,749	\$57,262	\$41,044	---	\$3,545	---	\$24,560	\$367,071	\$130,995	\$5,545	\$88	\$25,425	\$17,752	\$564,507	\$15,524	\$18,774	
\$16,326	\$17,184	\$1,000	---	\$3,000	---	\$1,557	\$22,042	\$32,259	\$1,794	\$885	\$10,066	\$2,177	\$145,695	(13)	\$17,899	
\$7,423	\$40,078	\$40,044	---	\$545	---	\$25,003	\$365,029	\$98,734	\$1,549	---	\$16,427	\$15,555	\$418,812	(13)	\$375	
\$546	\$19,253	\$7,144	---	\$545	---	\$15,041	\$18,053	\$96,734	\$49	---	\$12,427	\$14,680	\$418,812	(13)	\$875	
\$6,777	\$20,825	\$2,900	---	---	---	\$5,962	\$46,996	---	\$1,500	---	\$4,000	\$875	---	(13)	---	
\$52,612	1,090,923	451,990	15,022	130,587	75,405	875,754	1,745,287	545,047	116,895	137,874	1,663,309	459,296	1,908,540	2,266,357	242,191	
\$0.58	\$0.56	\$0.48	\$0.47	\$0.50	\$0.44	\$0.52	\$0.58	\$0.58	\$0.52	\$0.57	\$0.71	\$0.59	\$0.65	\$0.71	\$0.66	
14,250	12,920	5,955	261	861	519	7,602	32,601	6,522	1,957	1,335	6,081	4,511	24,055	51,265	62,759	
75.1	20.3	28.4	37.5	11.6	15.7	16.3	42.1	25.5	21.3	19.1	5.2	17.7	25.5	25.8	518.5	
2,573	7,721	1,050	211	753	546	5,331	17,515	1,778	1,192	1,102	3,182	2,690	5,151	30,264	15,787	
11,877	5,199	4,905	50	108	173	4,271	15,066	4,746	764	253	2,329	1,621	18,922	996	46,952	
---	287	---	---	---	---	50	1,406	607	---	---	421	5	---	75	228	
5	144	---	---	304	61	75	29	---	10	---	---	---	---	(13)	4,571	
4,140	4,901	435	---	540	577	6,969	40,047	10,796	506	845	2,697	1,559	10,505	(13)	---	
1,695	1,955	3,251	---	50	---	426	16,214	5,667	820	3,010	56	20	572	(13)	---	
156,688	284,963	48,790	5,240	11,475	6,355	65,512	591,789	95,259	20,422	5,758	52,449	66,540	26,808	(13)	516	
---	2,750	---	---	---	---	---	5,522	---	---	---	2,608	300	---	(13)	55,016	
2,756	2,660	3,562	15	80	72	2,124	8,876	6,975	286	187	1,687	1,564	51,085	(13)	16,278	
2,756	2,648	3,562	15	80	72	2,108	8,326	6,587	286	180	1,515	1,564	51,085	(13)	16,278	
---	12	---	---	---	---	16	550	---	---	7	524	---	---	(13)	5	

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

² Includes amounts received or due for contract services performed during the year, except amounts received by or due anthracite stripping contractors.

³ Includes statistics for central-office employees in the silver-ore and fuller's-earth industries and at central offices not classified by industry.

⁴ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work or to report separately the cost of buildings and of machinery and equipment.

⁵ Excludes, to avoid duplication, \$10,617,759 paid by colliery companies to anthracite stripping contractors, and excludes expenditures for contract work by such contractors, who were not asked to report this item.

⁶ Excludes statistics for contract-service operations.

⁷ Not available.

⁸ Excludes statistics for contract-service operations other than anthracite stripping contractors.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN PENNSYLVANIA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and nonproducing and contract-service operations, other than anthracite stripping contractors)

ITEM	State	Adams	Allegheny	Armstrong	Beaver	Bedford	Berks	Blair	Bucks
Number of operating companies ¹	1,666	9	156	58	46	25	17	26	16
Number of mines and quarries	2,271	9	167	41	48	25	20	30	18
Number of preparation plants	658	6	28	9	16	6	17	9	12
Value of all products	\$412,945,521	\$562,915	\$25,966,622	\$6,506,986	\$5,049,458	\$1,276,404	\$705,204	\$906,274	\$1,415,429
Number of persons engaged, total	199,009	169	12,913	3,777	867	672	264	656	250
Wage earners (average for the year)	185,718	178	11,537	3,612	744	621	221	600	211
Salaries employees	11,758	15	1,450	145	94	29	26	57	27
Proprietors and firm members	1,585	1	146	20	29	22	17	19	12
Performing manual labor	908	1	111	14	17	14	6	10	6
Principal expenses designated below, total	\$355,261,266	\$416,599	\$24,172,223	\$5,365,965	\$1,696,154	\$657,728	\$415,148	\$675,164	\$561,676
Wages	\$255,444,906	\$177,675	\$16,154,861	\$4,120,858	\$905,182	\$609,697	\$205,132	\$477,991	\$271,278
Salaries	\$26,905,724	\$27,224	\$5,918,246	\$216,595	\$187,706	\$56,626	\$43,251	\$52,121	\$42,961
Supplies and materials	\$46,965,614	\$144,979	\$2,846,825	\$710,252	\$454,741	\$94,524	\$70,855	\$74,586	\$120,100
Fuel	\$5,496,065	\$16,658	\$218,896	\$36,546	\$115,444	\$36,222	\$46,557	\$24,569	\$46,689
Purchased electric energy	\$15,687,442	\$32,105	\$921,051	\$176,965	\$46,244	\$37,700	\$41,909	\$71,188	\$71,188
Contract work	\$1,606,300	\$5,560	\$120,514	\$4,949	\$9,857	\$2,656	\$2,655	\$2,258	\$7,704
Cost of buildings, machinery, and equipment erected or installed during year	\$14,892,681	\$56,259	\$1,027,176	\$217,247	\$415,562	\$31,240	\$21,781	\$56,795	\$80,191
Buildings	\$5,479,798		\$55,556	\$20,506	\$5,958	\$1,727	\$2,220	\$17,188	\$21,476
Machinery and equipment	\$11,412,883	\$56,259	\$971,620	\$196,942	\$407,624	\$29,513	\$19,561	\$39,606	\$58,715
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,150,789	7,789	104,120	41,724	12,715	5,258	15,402	5,946	10,071
Prime movers	611,860	5,165	10,017	11,940	8,182	1,945	5,854	2,566	4,235
Electric motors driven by purchased energy	1,518,929	4,624	94,103	29,784	4,533	3,295	9,768	3,580	5,836
Horsepower rating of electric motors driven by energy generated by reporting companies	594,170	128	17,194	8,677	857	295	25	7	275
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	2,627,150		10				125	25	300
Bituminous coal (tons of 2,000 pounds)	630,781	1,554	69,941	16,598	19,116	2,414	5,642	1,673	4,460
Fuel oils (barrels of 42 gallons)	198,626	1,699	15,929	501	8,501	1,008	429	62	1,880
Gasoline and kerosene (gallons)	9,524,004	56,961	106,764	42,017	404,601	202,815	201,246	121,706	144,117
Natural gas (thousands of cubic feet)	906,754		107,562	2,479	15,285	2,750			
Electric energy consumed (thousands of kw.-hrs.), total	1,626,221	1,850	102,780	27,058	2,704	2,465	2,092	1,865	5,560
Purchased	1,225,680	1,824	85,224	15,808	2,408	1,965	2,058	1,857	5,541
Generated by reporting companies	596,541	6	19,556	11,255	296	502	54	6	19

ITEM	Batler	Cambria	Carbon	Centre	Chester	Clarion	Clearfield	Clinton	Columbia	Crawford
Number of operating companies ¹	77	148	16	44	9	46	115	15	11	14
Number of mines and quarries	67	185	16	46	10	42	145	15	15	3
Number of preparation plants	24	15	11	5	8	12	2	1	9	15
Value of all products	\$5,020,545	\$50,649,207	\$6,787,009	\$1,425,988	\$415,750	\$2,618,796	\$5,659,560	\$201,608	\$1,680,535	\$77,054
Number of persons engaged, total	1,637	18,223	3,405	1,099	150	1,541	5,181	157	577	36
Wage earners (average for the year)	1,515	17,571	3,191	1,025	118	1,447	4,915	127	524	26
Salaries employees	55	759	200	85	10	55	152	12	46	19
Proprietors and firm members	71	113	12	41	2	39	114	18	7	
Performing manual labor	47	72	2	51		26	59	12	5	
Principal expenses designated below, total	\$2,088,022	\$28,548,327	\$5,166,831	\$1,122,665	\$169,915	\$2,161,948	\$5,749,208	\$152,628	\$1,209,265	\$55,228
Wages	\$1,485,642	\$29,266,428	\$4,170,011	\$847,109	\$95,616	\$1,566,086	\$4,541,572	\$107,470	\$752,750	\$25,906
Salaries	\$90,165	\$1,606,581	\$321,276	\$49,737	\$12,076	\$118,755	\$259,552	\$14,754	\$90,580	\$15,337
Supplies and materials	\$966,263	\$3,205,865	\$971,102	\$116,139	\$29,637	\$358,914	\$613,452	\$11,299	\$268,206	\$4,542
Fuel	\$41,139	\$310,407	\$179,159	\$29,836	\$13,914	\$55,212	\$37,141	\$5,707	\$32,795	\$9,722
Purchased electric energy	\$115,458	\$377,936	\$35,445	\$71,181	\$16,472	\$71,502	\$351,136	\$1,666	\$34,932	\$2,560
Contract work	\$2,356	\$181,062	\$11,659	\$9,681		\$35,579	\$56,555	\$15,532		\$710
Cost of buildings, machinery, and equipment erected or installed during year	\$129,254	\$1,507,281	\$214,119	\$52,564	\$5,777	\$290,236	\$62,445	\$1,800	\$30,561	\$11,254
Buildings	\$25,562	\$400,665	\$19,784	\$11,501		\$15,515	\$17,692		\$25,156	\$1,069
Machinery and equipment	\$105,692	\$906,596	\$194,555	\$41,063	\$5,777	\$274,721	\$44,555	\$1,800	\$5,405	\$10,185
Horsepower rating of prime movers and electric motors driven by purchased energy, total	16,651	141,691	50,259	8,651	5,942	10,634	31,282	1,748	8,142	987
Prime movers	5,004	59,799	15,534	5,298	2,007	5,244	10,082	1,284	5,769	719
Electric motors driven by purchased energy	11,647	101,892	34,955	5,553	1,855	7,390	21,250	464	4,355	277
Horsepower rating of electric motors driven by energy generated by reporting companies	550	54,892	74	690		722	9,158		170	
Fuels consumed:										
Anthracite (tons of 2,000 pounds)			65,466						25,023	
Bituminous coal (tons of 2,000 pounds)	2,357	155,556		2,576	954	1,165	17,491	889		120
Fuel oils (barrels of 42 gallons)	1,598	665	4,700	540		7,909	866	38	695	34
Gasoline and kerosene (gallons)	85,533	117,661	259,151	155,413	65,567	96,527	46,809	6,560	46,745	21,713
Natural gas (thousands of cubic feet)	40,839					4,453				17,227
Electric energy consumed (thousands of kw.-hrs.), total	8,546	150,245	32,875	4,688	824	5,661	29,229	49	7,510	61
Purchased	8,435	92,421	32,656	4,150	817	5,156	20,529	49	7,166	77
Generated by reporting companies	111	57,824	19	538	7	525	8,701		144	4

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

PENNSYLVANIA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN PENNSYLVANIA, BY COUNTY: 1939—Continued
(Exclusive of the crude-petroleum and natural-gas industry and nonproducing and contract-service operations, other than anthracite stripping contractors)

ITEM	Cumberland	Dauphin	Delaware	Elk	Erie	Payette	Forest	Franklin	Fulton	Greene
Number of operating companies ¹	9	18	9	15	4	89	6	12	4	19
Number of mines and quarries	9	20	9	18	5	115	2	12	4	15
Number of preparation plants	8	18	2	2	5	9	5	11	1	7
Value of all products	\$448,499	\$2,501,590	\$615,265	\$3,515,759	\$239,067	\$85,309,589	\$81,515	\$248,640	\$436,519	\$6,821,754
Number of persons engaged, total	196	1,156	217	1,043	41	18,087	22	135	268	5,465
Wage earners (average for the year)	170	1,089	195	991	26	12,432	16	119	251	5,277
Salaries employees	15	59	17	40	15	535	4	6	12	182
Proprietors and firm members	15	8	5	12	5	80	2	10	5	4
Performing manual labor		1	1	8		43	2	6	5	1
Principal expenses designated below, total	\$257,560	\$1,941,966	\$396,990	\$1,551,917	\$107,928	\$24,547,606	\$45,241	\$155,480	\$405,405	\$7,269,421
Wages	\$135,924	\$1,544,628	\$229,170	\$1,065,680	\$26,490	\$18,629,511	\$19,690	\$64,758	\$150,555	\$5,106,645
Salaries	\$16,588	\$155,606	\$15,877	\$61,878	\$17,522	\$1,185,179	\$6,470	\$7,978	\$21,755	\$416,569
Supplies and materials	\$44,579	\$184,880	\$79,401	\$110,906	\$3,715	\$3,435,695	\$6,856	\$11,525	\$26,506	\$1,244,515
Fuel	\$28,097	\$44,547	\$25,971	\$49,968	\$66,595	\$132,991	\$7,755	\$17,546	\$12,539	\$150,985
Purchased electric energy	\$16,651	\$6,959	\$28,571	\$44,462	\$2,428	\$976,132	\$4,000	\$12,095	\$22,278	\$568,255
Contract work	\$15,746	\$5,959			\$581	\$29,301			\$2,275	\$5,696
Cost of buildings, machinery, and equipment erected or installed during year	\$40,301	\$41,956	\$18,725	\$62,705	\$25,747	\$917,604	\$1,450	\$49,561	\$45,822	\$680,514
Buildings	\$4,685	\$6,150	\$4,563	\$9,469	\$294	\$25,965	\$1,500	\$6,561	\$6,500	\$252,255
Machinery and equipment	\$35,616	\$35,806	\$14,160	\$53,236	\$25,453	\$892,641	\$1,250	\$43,000	\$39,322	\$328,259
Horsepower rating of prime movers and electric motors driven by purchased energy, total	3,180	29,657	5,552	10,690	1,804	112,759	872	2,700	4,458	46,111
Prime movers	1,664	26,645	1,258	6,502	1,445	11,204	872	1,675	2,950	5,454
Electric motors driven by purchased energy	1,296	5,012	2,114	4,188	561	101,555	800	1,025	1,508	40,657
Horsepower rating of electric motors driven by energy generated by reporting companies	120	17,513		5,514		1,714		65	150	1,187
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	547	4,415	7							
Bituminous coal (tons of 2,000 pounds)	1,499	5,662	1,882	17,490	6,555					
Fuel oils (barrels of 42 gallons)	2,277	251	960	879	100	58,927		1,204	5,182	14,535
Gasoline and kerosene (gallons)	112,202	111,159	100,658	16,262	25,265	2,200		70,175	25,000	8,554
Natural gas (thousands of cubic feet)				6,570		155,061	10,714	17,015		462,806
Electric energy consumed (thousands of kw.-hrs.), total	958	59,275	1,695	4,067	125	96,667	290	459	2,117	50,964
Purchased	598	1,574	1,695	2,076	120	96,477	290	454	2,065	50,964
Generated by reporting companies	360	57,699		1,991	5	190		5	52	171

ITEM	Huntingdon	Indiana	Jefferson	Lackawanna	Lancaster	Lawrence	Lebanon	Lehigh	Luzerne	Lycoming
Number of operating companies ¹	21	38	45	127	50	19	11	18	112	17
Number of mines and quarries	22	47	45	146	51	18	14	19	155	17
Number of preparation plants	11	8	3	59	50	8	11	8	69	8
Value of all products	\$2,499,196	\$10,590,601	\$5,592,993	\$32,985,710	\$705,075	\$2,295,067	\$5,711,655	\$955,957	\$26,782,889	\$260,771
Number of persons engaged, total	1,144	6,455	2,159	19,966	294	1,105	1,199	355	42,840	202
Wage earners (average for the year)	1,068	5,895	2,029	15,126	247	1,025	1,117	306	40,555	162
Salaries employees	68	558	69	1,725	15	79	75	15	2,224	31
Proprietors and firm members	8	20	40	107	54	11	9	14	81	9
Performing manual labor	4	10	29	65	16	8	6	5	42	6
Principal expenses designated below, total	\$1,741,989	\$10,072,575	\$2,808,421	\$28,651,174	\$415,640	\$2,212,186	\$2,545,094	\$705,698	\$71,223,506	\$265,901
Wages	\$1,168,058	\$7,455,519	\$2,291,050	\$18,429,260	\$211,066	\$1,296,516	\$1,595,895	\$418,092	\$51,587,575	\$145,182
Salaries	\$158,274	\$1,045,108	\$145,855	\$5,755,045	\$18,186	\$252,075	\$259,120	\$24,774	\$4,861,092	\$49,524
Supplies and materials	\$240,855	\$1,245,945	\$294,694	\$4,741,394	\$80,729	\$461,895	\$524,770	\$271,446	\$10,937,054	\$35,054
Fuel	\$54,958	\$90,517	\$21,370	\$645,915	\$64,990	\$88,065	\$74,449	\$26,183	\$1,721,425	\$19,668
Purchased electric energy	\$158,982	\$210,151	\$55,186	\$749,935	\$42,511	\$115,550	\$291,200	\$58,795	\$1,955,620	\$28,552
Contract work	\$4,902	\$29,257	\$540	\$30,844	\$566	\$17,964	\$20,680	\$6,418	\$172,739	\$6,621
Cost of buildings, machinery, and equipment erected or installed during year	\$96,621	\$1,180,352	\$115,866	\$552,398	\$96,529	\$226,275	\$508,115	\$190,091	\$2,682,904	\$17,086
Buildings	\$41,658	\$512,115	\$5,702	\$149,908	\$7,250	\$95,115	\$146,940	\$4,790	\$1,129,135	\$6,166
Machinery and equipment	\$54,963	\$668,237	\$110,166	\$402,412	\$89,279	\$131,159	\$361,175	\$185,351	\$1,553,801	\$10,920
Horsepower rating of prime movers and electric motors driven by purchased energy, total	11,287	56,816	9,970	169,492	19,967	18,851	29,876	15,014	457,179	3,356
Prime movers	2,505	35,178	5,727	104,761	5,654	6,426	7,277	2,546	246,895	1,779
Electric motors driven by purchased energy	8,782	23,638	4,243	64,711	5,135	10,425	22,599	12,468	190,484	1,577
Horsepower rating of electric motors driven by energy generated by reporting companies		51,537	14,466	125,222	145	2,369			225,631	
Fuels consumed:										
Anthracite (tons of 2,000 pounds)				551,655		9		44	1,455,160	
Bituminous coal (tons of 2,000 pounds)	10,977	29,180	10,640		653	20,128	11,283	2,795	1,286	1,955
Fuel oils (barrels of 42 gallons)	988	56	669	10,019	1,696	41,150	623	659	27,899	109
Gasoline and kerosene (gallons)	110,589	6,882	15,887	561,629	485,817	109,778	158,955	90,599	1,571,518	89,024
Natural gas (thousands of cubic feet)			2,224			7,542				
Electric energy consumed (thousands of kw.-hrs.), total	10,891	66,628	17,678	176,087	1,947	11,085	57,661	6,165	292,058	752
Purchased	10,891	18,618	5,680	66,694	1,935	9,417	57,661	6,165	162,845	752
Generated by reporting companies		48,010	11,998	109,393	12	1,668			229,213	

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN PENNSYLVANIA, BY COUNTY: 1939—Concluded

(Exclusive of the crude-petroleum and natural-gas industry and nonproducing and contract-service operations, other than anthracite stripping contractors)

ITEM	McKean	Mercer	Mifflin	Montgomery	Montour	Northampton	Northumberland	Philadelphia	Schuylkill	Somerset
Number of operating companies ¹	5	15	5	50	5	50	50	4	78	92
Number of mines and quarries	2	17	5	51	5	50	50	4	126	118
Number of preparation plants	6	4	4	21	2	15	24	—	50	5
Value of all products	\$126,241	\$527,296	\$556,288	\$1,510,875	\$65,812	\$2,508,448	\$20,342,762	\$5,425	\$56,962,192	\$9,580,011
Number of persons engaged, total	36	269	240	454	18	985	6,800	445	16,585	5,875
Wage earners (average for the year)	55	252	155	378	13	857	6,532	18	15,742	5,872
Salaried employees	5	17	82	57	1	159	245	422	800	224
Proprietors and firm members	—	20	2	19	4	9	25	3	45	77
Performing manual labor	—	8	—	9	4	2	14	1	25	35
Principal expenses designated below, total	\$81,548	\$584,007	\$420,612	\$270,585	\$54,585	\$2,026,897	\$14,551,467	\$1,580,069	\$51,790,272	\$7,705,821
Wages	\$41,041	\$285,231	\$186,109	\$417,902	\$11,089	\$1,025,106	\$9,537,597	\$15,915	\$21,830,958	\$6,069,418
Salaries	\$9,640	\$21,629	\$122,461	\$85,741	\$1,429	\$562,088	\$561,518	\$1,561,595	\$1,832,098	\$422,472
Supplies and materials	\$16,764	\$45,882	\$72,048	\$191,177	\$6,624	\$59,844	\$2,928,177	\$1,518	\$5,372,228	\$775,723
Fuel	\$12,728	\$16,759	\$20,062	\$64,589	\$13,505	\$110,658	\$147,537	\$142	\$965,107	\$114,797
Purchased electric energy	\$1,155	\$16,256	\$27,556	\$96,555	\$2,170	\$124,072	\$1,119,525	\$1,121	\$2,150,715	\$266,676
Contract work	—	\$250	\$2,596	\$18,821	—	\$65,127	\$57,515	—	\$241,171	\$16,500
Cost of buildings, machinery, and equipment erected or installed during year	\$7,716	\$28,857	\$41,754	\$58,151	\$1,600	\$75,485	\$146,449	—	\$1,200,794	\$272,544
Buildings	\$2,551	\$850	\$7,694	\$12,709	—	\$17,704	\$7,223	—	\$428,845	\$5,040
Machinery and equipment	\$5,165	\$27,967	\$34,060	\$45,442	\$1,600	\$57,781	\$139,226	—	\$771,951	\$269,504
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,178	5,217	4,504	12,454	1,609	24,920	101,261	90	248,912	67,538
Prime movers	1,078	1,829	886	4,380	1,456	11,512	18,181	40	82,755	36,831
Electric motors driven by purchased energy	100	1,588	5,618	8,074	173	13,408	83,080	50	166,177	30,686
Horsepower rating of electric motors driven by energy generated by reporting companies	508	—	100	145	582	9,147	—	—	302	28,699
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	—	—	14	180	1,000	51	44,592	—	378,253	—
Bituminous coal (tons of 2,000 pounds)	441	1,205	5,769	4,574	—	9,204	—	4	960	51,488
Fuel oils (barrels of 42 gallons)	249	1,429	1,254	528	—	454	9,190	—	51,208	429
Gasoline and kerosene (gallons)	—	62,111	18,860	504,766	67,575	445,502	399,529	700	1,537,273	77,218
Natural gas (thousands of cubic feet)	48,765	—	—	—	—	—	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	115	549	1,810	7,990	96	18,676	102,256	57	202,620	46,909
Purchased	104	549	1,800	7,969	85	11,955	102,256	57	202,672	21,145
Generated by reporting companies	12	—	10	21	55	6,725	—	—	48	25,764

ITEM	Sullivan	Susquehanna	Tioga	Vanango	Warren	Washington	Wayne	Westmoreland	York	All other ²
Number of operating companies ¹	4	4	14	20	21	79	5	101	15	15
Number of mines and quarries	6	4	15	8	5	87	5	118	15	14
Number of preparation plants	4	1	5	19	21	9	2	8	10	8
Value of all products	\$98,888	\$523,479	\$520,114	\$450,019	\$129,518	\$50,044,435	\$51,148	\$15,781,801	\$1,244,678	\$307,416
Number of persons engaged, total	25	288	356	126	26	14,556	26	7,446	450	121
Wage earners (average for the year)	84	266	354	104	22	14,002	25	7,046	400	208
Salaried employees	6	18	10	15	5	505	2	520	42	20
Proprietors and firm members	5	4	12	9	5	51	1	80	8	9
Performing manual labor	—	3	8	4	5	29	1	55	1	5
Principal expenses designated below, total	\$82,550	\$479,256	\$462,267	\$216,579	\$98,565	\$24,070,626	\$46,802	\$11,001,512	\$842,555	\$210,997
Wages	\$51,512	\$299,725	\$351,704	\$111,009	\$27,558	\$18,522,672	\$21,795	\$8,545,609	\$415,625	\$97,821
Salaries	\$7,007	\$23,665	\$19,267	\$21,985	\$6,827	\$1,298,178	\$1,886	\$677,277	\$64,916	\$58,536
Supplies and materials	\$9,506	\$108,062	\$75,265	\$59,121	\$10,495	\$5,046,486	\$15,457	\$1,508,900	\$244,504	\$50,559
Fuel	\$1,840	\$6,225	\$21,294	\$5,645	\$28,685	\$68,957	\$2,280	\$81,842	\$56,562	\$20,585
Purchased electric energy	\$2,685	\$25,065	\$15,075	\$8,590	\$3,080	\$1,072,154	\$5,586	\$372,845	\$35,028	\$19,435
Contract work	—	\$18,516	\$1,662	\$555	\$12,261	\$52,199	—	\$14,859	—	\$4,039
Cost of buildings, machinery, and equipment erected or installed during year	\$525	\$700	\$97,726	\$55,686	\$5,954	\$756,742	\$4,000	\$316,611	\$68,621	\$51,676
Buildings	—	\$600	\$1,759	\$6,065	—	\$28,514	\$2,000	\$50,576	\$10,564	\$7,961
Machinery and equipment	\$525	\$200	\$95,967	\$49,625	\$5,954	\$728,228	\$2,000	\$266,035	\$58,057	\$25,691
Horsepower rating of prime movers and electric motors driven by purchased energy, total	481	4,641	2,806	2,068	1,669	115,225	659	75,106	9,214	5,661
Prime movers	251	120	1,666	1,567	1,461	15,681	555	19,606	1,963	2,210
Electric motors driven by purchased energy	250	4,521	1,140	501	208	97,544	506	55,501	7,251	1,661
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	110	77	285	1,359	—	14,564	—	—
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	1,190	5,886	—	—	—	—	—	—	—	640
Bituminous coal (tons of 2,000 pounds)	—	—	4,509	1,215	199	28,505	150	54,526	2,536	426
Fuel oils (barrels of 42 gallons)	—	—	2,107	1,682	—	5,721	—	760	2,507	35
Gasoline and kerosene (gallons)	4,500	1,910	38,006	18,772	7,000	106,567	11,563	122,040	159,571	124,659
Natural gas (thousands of cubic feet)	—	—	—	62,372	64,285	56,581	—	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	101	1,887	965	561	549	96,355	259	49,557	6,505	672
Purchased	101	1,887	908	558	102	95,112	259	29,776	6,505	672
Generated by reporting companies	—	—	57	3	447	5,225	—	19,781	—	—

¹ Companies with operations in more than 1 county are counted only once in the totals.² Bradford, Cameron, Juniata, Monroe, Perry, Snyder, Union, and Wyoming.

RHODE ISLAND

Rhode Island ranked forty-sixth among the States in value of products of mineral industries in 1939, and forty-seventh in number of wage earners employed. (See table 2, General Summary.) The total value of products reported for 1939 was 102 percent of that for 1929, and the number of wage earners 83 percent. (See table 1.) For industries canvassed in both 1939 and 1919, the total value of products for 1939 was 62 percent of that for 1919, and the number of wage earners 39 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 165 percent of that for 1929, and 163 percent of that for 1919.

The crushed and broken stone industries (including limestone, granite, basalt, and miscellaneous stone) accounted for 48 percent of the total value of products and for 33 percent of the wage earners reported for all mineral industries in the State. The rough-dimension granite industry accounted for 24 percent of the total value of products in the State, and for 34 percent of the wage earners.

Other mineral industries in the State were common sand and gravel, common clay and shale, and foundry sand. Mineral operations were located in all five counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN RHODE ISLAND: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 AND 1929 (All industries)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
	1939 ¹	1929	1939 ²	1919
Number of mines and quarries	21	14	11	15
Value of all products	\$829,472	\$809,561	\$593,456	\$952,204
Number of persons engaged, total	259	301	175	421
Wage earners (average for the year)	212	256	144	369
Salaried employees	36	34	27	46
Proprietors and firm members	11	11	4	6
Performing manual labor	4	(3)	2	
Principal expenses designated below, total	\$526,795	\$674,248	\$590,022	\$885,041
Wages	\$261,612	\$394,965	\$195,123	\$599,648
Salaries	\$60,787	\$70,165	\$51,257	\$92,681
Supplies and materials	\$128,795	\$143,735	\$94,755	\$146,637
Fuel	\$44,550	\$37,161	\$23,073	\$45,326
Purchased electric energy	\$29,647	\$36,522	\$24,512	\$9,549
Contract work	\$1,602	\$2,900	\$1,522	\$1,000
Cost of machinery and equipment installed during year	\$54,807	\$16,751	\$11,177	(3)
Horsepower rating of power equipment, total	6,996	4,237	4,566	3,000
Per wage earner	\$3.0	16.6	\$3.9	6.1
Prime movers	3,730	1,322	1,857	1,844
Electric motors driven by purchased energy	3,246	2,915	3,031	1,156
Electric energy consumed (thousands of kw.-hrs.), total	1,479	1,509	1,360	(3)
Purchased	1,433	1,509	1,314	(3)
Generated by reporting companies	46		46	(3)

¹ Includes 1 mine in the common clay and shale industry and data for central-office employees in the crude-petroleum and natural-gas industry. These industries were not included in the census of mineral industries for 1929.

² Includes 1 limestone quarry operated in conjunction with a lime plant. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN RHODE ISLAND, BY INDUSTRY: 1939

(For producing operations only) ¹

ITEM	Total	STONE			Common clay and shale and sand and gravel ²
		Crushed and broken		Rough-dimension granite	
		Limestone, granite, and basalt ³	Miscellaneous		
Number of operating companies ⁴	20	4	3	4	10
Number of mines and quarries.....	21	4	3	4	10
Number of preparation plants.....	16	4	3	1	8
Value of all products ⁵	\$826,472	\$214,716	\$180,277	\$198,463	\$235,016
Number of persons engaged, total.....	⁶ 259	31	54	87	84
Wage earners (average for the year).....	212	27	44	73	68
Number receiving pay during pay-roll period ending nearest the 15th of:					
January.....	137		19	65	53
February.....	139	2	22	63	52
March.....	156	10	18	65	66
April.....	216	28	41	76	71
May.....	257	45	59	82	71
June.....	261	59	63	79	80
July.....	264	58	48	74	84
August.....	254	48	62	74	70
September.....	229	23	60	78	69
October.....	236	22	56	77	81
November.....	194	13	42	70	69
December.....	161	13	37	71	60
Salaried employees.....	⁶ 36	3	10	11	9
Proprietors and firm members.....	11	1		3	7
Performing manual labor.....	4	1		1	2
Principal expenses designated below, total.....	⁶ \$526,793	\$77,814	\$138,501	\$166,107	\$136,771
Wages.....	\$261,612	\$55,784	\$67,194	\$92,145	\$68,489
Salaries.....	⁶ \$60,787	\$2,100	\$16,120	\$25,437	\$9,590
Supplies and materials.....	\$128,795	\$32,924	\$36,958	\$24,875	\$34,080
Fuel.....	\$44,350	\$5,097	\$10,215	\$7,761	\$21,277
Purchased electric energy.....	\$29,647	\$1,909	\$8,034	\$14,369	\$5,535
Contract work.....	\$1,602			\$1,522	\$60
Cost of buildings, machinery, and equipment erected or installed during year.....	\$47,575		\$4,552	\$18,093	\$24,930
Buildings.....	\$12,968		\$2,024	\$9,444	\$1,600
Machinery and equipment, total.....	\$34,607		\$2,528	\$8,649	\$23,430
Purchased in new condition.....	\$34,407		\$2,528	\$8,649	\$23,250
Purchased in used condition.....	\$200				\$200
Number of man-hours worked by wage earners.....	434,896	57,512	109,640	130,060	137,684
Average hourly earning of wage earners.....	\$0.60	\$0.62	\$0.61	\$0.71	\$0.48
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	6,998	1,163	1,448	2,277	2,110
Per wage earner.....	\$3.0	43.1	32.9	31.2	21.0
Prime movers.....	3,750	903	429	525	1,693
Electric motors driven by purchased energy.....	3,248	260	1,019	1,752	217
Horsepower rating of electric motors driven by energy generated by reporting companies.....	250	250			
Fuels consumed:					
Anthracite (tons of 2,000 pounds).....	431		431		
Bituminous coal (tons of 2,000 pounds).....	1,662	211	233	911	307
Fuel oils (barrels of 42 gallons).....	179			179	
Gasoline and kerosene (gallons).....	235,378	19,000	39,550	11,575	165,233
Natural gas (thousands of cubic feet).....	163				163
Electric energy consumed (thousands of kw.-hrs.), total.....	1,479	99	619	642	119
Purchased.....	1,433	53	619	642	119
Generated by reporting companies.....	46	46			

¹ In addition 1 central office associated with nonproducing operations in the crude-petroleum and natural-gas industry was reported; no contract-service operations were classified in the State.

² Represents 1 common clay and shale mine, 8 mines and 8 preparation plants in the common sand and gravel industry, and 1 foundry-sand mine.

³ Represents 1 quarry and 1 crushing plant in the crushed and broken limestone industry, 1 quarry and 1 crushing plant in the crushed and broken granite industry, and 2 quarries and 2 crushing plants in the crushed and broken basalt industry.

⁴ Companies with operations in more than 1 industry are counted only once in the totals.

⁵ Includes amounts received or due for contract services performed during the year.

⁶ Includes statistics for central-office employees in the crude-petroleum and natural-gas industry.

RHODE ISLAND

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN RHODE ISLAND, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Newport	Providence	Washington	Bristol and Kent
Number of operating companies ¹	20	3	9	4	4
Number of mines and quarries.....	21	3	10	4	4
Number of preparation plants.....	18	3	10	1	2
Value of all products.....	\$228,472	\$75,004	\$471,387	\$198,463	\$65,618
Number of persons engaged, total.....	259	23	124	87	25
Wage earners (average for the year).....	212	18	102	78	20
Salaried employees.....	56	3	19	11	5
Proprietors and firm members.....	11	2	4	5	2
Performing manual labor.....	4	1	2	1	
Principal expenses designated below, total.....	\$526,795	\$42,774	\$276,597	\$166,107	\$41,315
Wages.....	\$261,612	\$15,974	\$134,115	\$82,145	\$21,878
Salaries.....	\$60,787	\$5,650	\$27,920	\$25,437	\$3,700
Supplies and materials.....	\$128,795	\$21,090	\$77,512	\$24,873	\$5,520
Fuel.....	\$44,350	\$2,700	\$24,752	\$7,761	\$9,137
Purchased electric energy.....	\$29,647	\$1,180	\$12,598	\$14,369	\$1,500
Contract work.....	\$1,602			\$1,322	\$80
Cost of buildings, machinery, and equipment erected or installed during year.....	\$47,575		\$9,962	\$18,093	\$19,520
Buildings.....	\$12,968		\$2,024	\$9,444	\$1,500
Machinery and equipment.....	\$54,607		\$7,938	\$8,649	\$18,020
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	6,398	313	3,236	2,277	1,170
Prime movers.....	3,750	236	1,694	825	1,095
Electric motors driven by purchased energy.....	2,648	77	1,544	1,752	75
Horsepower rating of electric motors driven by energy generated by reporting companies.....	290		250		
Fuels consumed:					
Anthracite (tons of 2,000 pounds).....	431		431		
Bituminous coal (tons of 2,000 pounds).....	1,662	123	594	911	32
Fuel oils (barrels of 42 gallons).....	179			179	
Gasoline and kerosene (gallons).....	235,878	16,000	131,865	11,575	75,920
Natural gas (thousands of cubic feet).....	163				163
Electric energy consumed (thousands of kw.-hrs.), total.....	1,478	20	803	642	14
Purchased.....	1,433	20	757	642	14
Generated by reporting companies.....	46		46		

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

SOUTH CAROLINA

South Carolina ranked fortieth among the States in value of products of mineral industries in 1939, and thirty-eighth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products for the State was 109 percent of that in 1929, and the number of wage earners 96 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 230 percent of that in 1919, and the number of wage earners 119 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 105 percent of that in 1929, and 358 percent of that in 1919.

The crushed and broken granite industry accounted for 36 percent of the value of products of all mineral industries in

the State, and for 28 percent of the total number of wage earners employed. The kaolin and ball-clay industry accounted for 32 percent of the value of products and 32 percent of the wage earners. South Carolina ranked second among all States in the crushed and broken granite industry, with 18 percent of the total value of products of the industry in the United States. The State also ranked second in the kaolin and ball-clay industry, accounting for 15 percent of the total value of products for the industry. (See reports for these industries.)

Other mineral industries in the State were lode gold, crushed and broken limestone, rough-dimension granite, common sand and gravel, glass sand, common clay and shale, and barite. Mineral operations were located in 19 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for information regarding contract-service operations see table 2. No nonproducing operations were reported for 1939.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN SOUTH CAROLINA: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1889 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1929	1929	1889 ¹	1919
Number of mines and quarries-----	44	32	35	25	20
Value of all products-----	\$5,457,561	\$5,582,652	\$5,092,967	\$5,112,120	\$1,850,747
Number of persons engaged, total-----	1,400	1,351	1,423	1,195	1,006
Wage earners (average for the year)-----	1,291	1,243	1,298	1,112	985
Salaried employees-----	97	97	118	76	60
Proprietors and firm members-----	12	11	7	7	15
Performing manual labor-----	4	4	(²)	4	2
Principal expenses designated below, total-----	\$2,132,151	\$2,000,169	\$1,951,623	\$1,892,142	\$1,274,138
Wages-----	\$781,981	\$752,150	\$629,506	\$688,985	\$680,484
Salaries-----	\$282,719	\$282,719	\$296,078	\$259,941	\$159,845
Supplies and materials-----	\$696,535	\$690,724	\$592,520	\$649,766	\$508,571
Fuel-----	\$125,500	\$124,014	\$145,080	\$95,008	\$122,170
Purchased electric energy-----	\$175,777	\$172,711	\$178,103	\$160,601	\$28,270
Contract work-----	\$57,841	\$57,841	\$7,956	\$57,841	
Cost of machinery and equipment installed during year-----	\$182,506	\$158,094	\$152,766	\$147,643	(²)
Horsepower rating of power equipment, total-----	20,366	19,461	18,470	16,687	4,636
Per wage earner-----	15.8	15.7	14.2	15.0	5.0
Prime power-----	8,220	7,490	4,059	5,697	2,872
Electric motors driven by purchased energy-----	12,136	11,991	14,411	10,990	2,564
Electric energy consumed (thousands of kw.-hrs.), total-----	15,237	13,048	11,105	12,084	(²)
Purchased-----	15,160	12,961	11,105	11,984	(²)
Generated by reporting companies-----	87	87		70	(²)

¹ Includes 1 mine and 1 preparation plant in the glass-sand industry and 1 limestone quarry operated in conjunction with a lime plant. Such operations were not included in the census of mineral industries for 1919.

² Not available.

SOUTH CAROLINA

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN SOUTH CAROLINA, BY INDUSTRY: 1939

(For producing operations only;¹)

ITEM	Total	CRUSHED AND BROKEN STONE		Common sand and gravel	CLAY AND SHALE		All other²
		Limestone	Granite		Kaolin and ball clay	Common clay and shale	
Number of operating companies³	34	4	4	5	6	11	5
Number of mines and quarries	44	4	4	7	12	12	5
Number of preparation plants	23	3	4	7	7	—	2
Value of all products⁴	\$3,457,361	\$239,260	\$1,260,558	\$270,552	\$1,092,596	\$74,729	\$518,906
Number of persons engaged, total	1,400	159	394	156	449	49	155
Wage earners (average for the year)	1,291	154	364	121	419	48	175
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	1,257	156	327	136	407	45	166
February	1,276	171	333	141	410	46	176
March	1,305	174	350	135	419	46	181
April	1,355	189	368	132	407	50	179
May	1,381	192	395	145	425	50	174
June	1,372	204	392	137	402	50	187
July	1,325	179	351	133	381	50	191
August	1,292	147	322	141	390	50	181
September	1,244	134	277	134	368	50	176
October	1,232	98	269	118	458	50	159
November	1,235	100	341	115	473	46	160
December	1,222	99	324	106	485	45	181
Salaried employees	97	5	50	21	29	—	12
Proprietors and firm members	12	—	—	4	1	1	6
Performing manual labor	4	—	—	—	—	—	4
Principal expenses designated below, total	\$2,132,151	\$154,629	\$818,568	\$198,027	\$596,181	\$51,992	\$325,964
Wages	\$781,981	\$21,260	\$266,592	\$93,161	\$212,150	\$29,831	\$106,995
Salaries	\$282,719	\$13,483	\$154,661	\$42,778	\$84,845	—	\$28,552
Supplies and materials	\$598,533	\$40,730	\$309,325	\$40,968	\$130,908	\$7,599	\$118,608
Fuel	\$135,500	\$6,897	\$21,532	\$29,006	\$47,084	\$11,486	\$17,595
Purchased electric energy	\$175,777	\$10,259	\$74,099	\$12,110	\$32,785	\$3,066	\$23,458
Contract work	\$57,841	—	\$12,059	—	\$15,409	—	\$30,378
Cost of buildings, machinery, and equipment erected or installed during year	\$186,141	\$8,180	\$59,569	\$11,009	\$57,949	\$4,212	\$57,251
Buildings	\$25,855	\$500	\$14,802	\$358	\$4,455	—	\$6,520
Machinery and equipment, total	\$162,506	\$7,680	\$54,767	\$10,451	\$53,494	\$4,212	\$50,731
Purchased in new condition	\$139,964	\$7,260	\$50,767	\$8,891	\$47,105	\$310	\$25,751
Purchased in used condition	\$22,542	\$400	\$4,000	\$1,460	\$6,389	\$4,102	\$24,980
Number of man-hours worked by wage earners	2,755,543	517,487	876,555	258,450	719,246	108,175	505,672
Average hourly earning of wage earners	\$0.28	\$0.26	\$0.30	\$0.27	\$0.32	\$0.29	\$0.32
Horsepower rating of prime movers and electric motors driven by purchased energy, total	20,366	1,378	7,408	2,794	5,329	685	2,572
Per wage earner	15.8	8.9	20.4	21.3	12.7	18.4	14.7
Prime movers	8,230	564	1,140	1,795	2,199	740	1,794
Electric motors driven by purchased energy	12,136	814	6,268	1,001	3,130	145	778
Horsepower rating of electric motors driven by energy generated by reporting companies	520	—	—	55	465	—	—
Fuels consumed:⁵							
Bituminous coal (tons of 2,000 pounds)	11,167	113	2,502	2,629	5,165	166	292
Fuel oils (barrels of 42 gallons)	4,161	341	298	1,797	1,222	—	505
Gasoline and kerosene (gallons)	390,506	33,632	58,340	53,828	101,506	55,397	87,694
Electric energy consumed (thousands of kw.-hrs.), total	13,237	684	5,353	1,014	4,187	189	1,850
Purchased	13,150	684	5,353	997	4,067	189	1,850
Generated by reporting companies	87	—	—	17	70	—	—

¹ 2 contract-service operations were reported, but are not covered in the table to avoid disclosure of confidential information. No nonproducing operations were reported.

² Represents 2 mines and 1 mill in the lode-gold industry, 1 rough-dimension granite quarry, 1 mine and 1 preparation plant in the glass-sand industry, and 1 barite mine.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ No anthracite or natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN SOUTH CAROLINA, BY COUNTY: 1939

(Per producing operations only)

ITEM	State	Aiken	Cherokee	Lexington	Marlboro	Richland	All other ¹
Number of operating companies ²	54	8	3	4	5	5	17
Number of mines and quarries	44	14	3	4	5	5	17
Number of preparation plants	25	8	1	3	1	2	8
Value of all products	\$2,457,581	\$1,170,081	\$187,298	\$427,948	\$97,572	\$314,769	\$1,259,815
Number of persons engaged, total	1,400	499	116	144	55	119	487
Wage earners (average for the year)	1,291	462	112	125	54	106	454
Salaried employees	97	56	4	17	1	13	26
Proprietors and firm members	12	1		4			7
Performing manual labor	4						4
Principal expenses designated below, total	\$2,152,151	\$655,104	\$135,928	\$281,820	\$80,956	\$258,477	\$762,086
Wages	\$781,981	\$246,378	\$64,266	\$81,949	\$28,878	\$82,871	\$277,889
Salaries	\$282,719	\$76,118	\$12,863	\$81,189	\$2,595	\$49,110	\$81,084
Supplies and materials	\$298,555	\$184,945	\$58,416	\$77,149	\$31,121	\$78,286	\$286,418
Fuel	\$155,500	\$58,945	\$8,104	\$5,715	\$7,531	\$11,782	\$45,825
Purchased electric energy	\$175,777	\$53,513	\$10,259	\$25,559	\$11,211	\$16,428	\$69,007
Contract work	\$67,841	\$15,409		\$12,059			\$50,375
Cost of buildings, machinery, and equipment erected or installed during year	\$186,141	\$58,815	\$5,585	\$52,515	\$8,158	\$6,254	\$55,004
Buildings	\$25,855	\$4,455		\$12,000	\$258	\$2,802	\$8,329
Machinery and equipment	\$160,286	\$54,360	\$5,585	\$40,515	\$7,910	\$3,452	\$46,684
Horsepower rating of prime movers and electric motors driven by purchased energy, total	20,566	5,961	1,166	5,896	1,189	2,567	5,597
Prime movers	8,280	2,801	552	787	415	685	5,194
Electric motors driven by purchased energy	12,186	3,160	614	5,109	776	1,884	2,585
Horsepower rating of electric motors driven by energy generated by reporting companies	520	505				15	
Fuels consumed: ³							
Bituminous coal (tons of 2,000 pounds)	11,167	5,825	216	198	1,080	1,048	2,852
Fuel oils (barrels of 42 gallons)	4,161	2,546		467		504	844
Gasoline and kerosene (gallons)	890,506	180,770	38,782	9,999	13,621	27,869	189,795
Electric energy consumed (thousands of kw.-hrs.), total	15,237	4,215	684	2,051	964	1,281	4,062
Purchased	13,180	4,141	684	2,051	964	1,248	4,062
Generated by reporting companies	87	74				13	

¹ Allendale, Calhoun, Charleston, Darlington, Dorchester, Fairfield, Greenwood, Lancaster, Marion, Newberry, Orangeburg, Pickens, Williamsburg, and York.² Companies with operations in more than 1 county are counted only once in the totals.³ No anthracite or natural gas was reported consumed.

SOUTH DAKOTA

South Dakota ranked twenty-sixth among the States in value of products of mineral industries in 1939, and thirty-fourth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the value of products for the State in 1939 was 309 percent of that in 1929, and the number of wage earners 173 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 426 percent of that for 1919, and the number of wage earners 147 percent. Differences in the totals between 1939 and the two preceding census years are accounted for chiefly by the large growth of the lode-gold industry in the State. Total horsepower rating of power equipment at mineral operations in 1939 was 181 percent of that in 1929, and 381 percent of that in 1919.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

The lode-gold industry ranked first among mineral industries in the State in 1939, accounting for 92 percent of the total value of products and 85 percent of the total number of wage earners employed. South Dakota ranked second among all States in the lode-gold industry, with 25 percent of the total value of products of the industry; and ranked third in value of products in the bentonite industry. (See reports for these industries.)

Other mineral industries in the State were crude petroleum and natural gas, lignite, limestone, granite, sandstone, common sand and gravel, common clay and shale, feldspar, gypsum, lithium minerals, and mica. Mineral operations were located in 13 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry (except for crude petroleum and natural gas) in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN SOUTH DAKOTA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929, 1929, AND 1919 (Excluding the common sand and gravel industry)		
		1929:	1929	1919
Number of mines and quarries-----	55	51	35	28
Number of gas wells producing at end of year-----	2	2	-----	1
Value of all products-----	\$22,680,189	\$22,536,034	\$7,319,527	\$5,314,516
Number of persons engaged, total-----	2,924	2,900	1,638	1,680
Wage earners (average for the year)-----	2,633	2,617	1,513	1,785
Salaried employees-----	284	257	113	80
Proprietors and firm members-----	27	28	12	15
Performing manual labor-----	20	20	(*)	11
Principal expenses designated below, total-----	\$7,711,547	\$7,674,017	\$4,497,300	\$4,018,306
Wages-----	\$4,680,720	\$4,688,875	\$2,545,017	\$2,497,340
Salaries-----	\$839,509	\$823,919	\$367,045	\$216,810
Supplies and materials-----	\$1,715,464	\$1,712,424	\$1,407,829	\$1,008,196
Fuel-----	\$282,289	\$278,750	\$150,689	\$258,703
Purchased electric energy-----	\$172,117	\$168,801	\$26,940	\$45,316
Contract work-----	\$21,248	\$21,248	-----	\$11,941
Cost of machinery and equipment installed during year-----	\$755,210	\$755,325	\$9,318	(*)
Horsepower rating of power equipment, total-----	46,047	45,130	24,892	11,844
Per wage earner-----	17.5	17.2	15.5	6.6
Prime movers-----	39,523	37,796	21,364	9,334
Electric motors driven by purchased energy-----	7,724	7,332	2,968	2,510
Electric energy consumed (thousands of kw.-hrs.), total-----	66,026	65,901	48,681	(*)
Purchased-----	11,393	11,266	756	(*)
Generated by reporting companies-----	54,633	54,635	48,925	(*)

¹ Includes 1 mine in the common clay and shale industry and operations of 1 company in the crude-petroleum and natural-gas industry; the common clay and shale industry was not included in the census of mineral industries for 1929 or 1919, and the crude-petroleum and natural-gas industry was not included in the census of mineral industries for 1929. Also includes 1 limestone quarry operated in conjunction with a lime plant; such quarries were not included in the census of mineral industries for 1919.

* Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN SOUTH DAKOTA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS				
		Total	Crude petroleum and natural gas and lignite	Lode gold	Stone	
					Crushed and broken	
					Limestone and granite ¹	Sandstone
Number of operating companies ²	60	57	5	9	5	4
Number of mines and quarries	56	55	4	8	5	4
Number of gas wells producing on December 31, 1939	2	2	2	—	—	—
Number of preparation plants	24	23	—	9	3	4
Value of all products ³	\$22,685,186	\$22,680,189	\$78,615	\$21,676,033	\$101,285	\$159,400
Number of persons engaged, total	2,950	2,924	46	2,458	101	72
Wage earners (average for the year)	2,647	2,633	33	2,239	92	66
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	2,505	2,497	44	2,214	14	80
February	2,459	2,451	42	2,194	37	3
March	2,492	2,486	32	2,197	40	10
April	2,613	2,591	16	2,188	110	60
May	2,709	2,691	25	2,196	132	136
June	2,794	2,773	25	2,276	145	113
July	2,785	2,757	23	2,289	159	95
August	2,774	2,761	26	2,298	119	108
September	2,766	2,756	27	2,300	110	100
October	2,670	2,659	46	2,233	113	82
November	2,655	2,644	49	2,240	97	49
December	2,540	2,534	44	2,237	44	3
Salaried employees	275	264	6	217	8	7
Proprietors and firm members	28	27	5	5	1	—
Performing manual labor	20	20	5	5	—	—
Principal expenses designated below, total	\$7,735,896	\$7,711,547	\$47,831	\$7,064,568	\$65,781	\$94,620
Wages	\$4,689,741	\$4,680,720	\$15,780	\$4,366,333	\$39,174	\$55,575
Salaries	\$851,823	\$839,509	\$16,269	\$751,068	\$6,817	\$16,013
Supplies and materials	\$1,718,140	\$1,715,484	\$5,315	\$1,565,194	\$13,166	\$17,322
Fuel	\$294,327	\$282,289	\$1,585	\$248,705	\$1,786	\$3,097
Purchased electric energy	\$172,117	\$172,117	\$85	\$135,268	\$4,165	\$4,615
Contract work	\$21,248	\$21,248	\$5,797	—	\$685	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,090,355	\$1,086,647	\$41,229	\$992,691	\$5,014	\$1,492
Buildings	\$351,616	\$351,637	\$150	\$348,228	\$190	—
Machinery and equipment, total	\$738,419	\$735,210	\$41,079	\$644,463	\$2,824	\$1,492
Purchased in new condition	\$695,479	\$695,479	\$41,079	\$637,837	\$2,824	\$1,492
Purchased in used condition	\$42,940	\$39,731	—	\$6,626	—	—
Number of man-hours worked by wage earners	5,997,958	5,960,136	45,064	5,295,053	99,037	113,749
Average hourly earning of wage earners	\$0.78	\$0.79	\$0.42	\$0.82	\$0.40	\$0.47
Horsepower rating of prime movers and electric motors driven by purchased energy, total	46,397	46,047	235	39,619	535	1,135
Per wage earner	17.5	17.5	7.1	17.7	5.8	17.5
Prime movers	59,673	58,323	235	35,097	115	304
Electric motors driven by purchased energy	7,724	7,724	—	4,522	420	631
Horsepower rating of electric motors driven by energy generated by reporting companies	29,863	29,863	—	29,558	—	286
Fuels consumed:						
Anthracite (tons of 2,000 pounds)	65	5	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	59,008	59,908	20	59,425	—	—
Fuel oils (barrels of 42 gallons)	2,094	2,094	348	1,028	—	8
Gasoline and kerosene (gallons)	215,916	203,616	90	106,150	12,600	21,027
Natural gas (thousands of cubic feet)	236,754	239,734	—	183,415	—	—
Electric energy consumed (thousands of kw.-hrs.), total	66,026	66,026	2	64,069	153	187
Purchased	11,395	11,393	2	9,612	153	187
Generated by reporting companies	54,631	54,633	—	54,457	—	—

¹ Represents 4 quarries and 2 crushing plants in the crushed and broken limestone industry and 1 quarry and 1 crushing plant in the crushed and broken granite industry.² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Nonproducing operations reported no expenditures for contract work; contract-service operators were not asked to report expenditures for contract work.⁵ Excludes statistics for contract-service operations.

SOUTH DAKOTA

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN SOUTH DAKOTA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued						Contract-service and nonproducing operations ⁴
	Stone—Continued		Common sand and gravel	Common clay and shale and bentonite ⁷	Feldspar	Gypsum, lithium minerals, and mica ⁸	
	Rough dimension						
	Granite	Sandstone					
Number of operating companies ² -----	6	5	4	6	11	5	
Number of mines and quarries-----	6	5	4	5	11	5	
Number of gas wells producing on December 31, 1939-----							
Number of preparation plants-----			4	5			
Value of all products ³ -----	\$190,840	\$22,758	\$44,155	\$287,613	\$95,057	\$54,253	\$4,097
Number of persons engaged, total-----	80	12	24	47	58	26	26
Wage earners (average for the year)-----	75	8	16	44	43	19	14
Number receiving pay during pay-roll period ending nearest the 15th of:							
January-----	61	7	5	48	39	15	8
February-----	74	7	2	33	41	18	8
March-----	74	7	13	53	40	20	6
April-----	75	8	23	49	39	17	22
May-----	75	8	21	38	41	19	18
June-----	77	8	20	46	43	18	21
July-----	77	8	22	46	42	18	28
August-----	78	8	22	38	47	17	15
September-----	79	8	20	42	51	19	10
October-----	77	8	24	39	46	21	11
November-----	77	8	12	40	46	24	11
December-----	77	8	3	51	42	25	6
Salaried employees-----	3	1	7	5	4	6	11
Proprietors and firm members-----	2	3	1		11	1	1
Performing manual labor-----		2			9	1	
Principal expenses designated below, total-----	\$136,753	\$17,661	\$37,330	\$150,827	\$81,057	\$54,906	*\$24,049
Wages-----	\$84,712	\$6,445	\$11,845	\$42,586	\$41,403	\$15,867	\$9,021
Salaries-----	\$4,700	\$2,000	\$15,590	\$7,804	\$8,480	\$10,788	\$12,314
Supplies and materials-----	\$22,975	\$5,011	\$3,040	\$69,648	\$6,741	\$7,052	\$876
Fuel-----	\$5,555	\$3,326	\$3,539	\$13,134	\$2,724	\$838	\$2,068
Purchased electric energy-----	\$18,977	\$879	\$5,316	\$7,628	\$833	\$255	
Contract work-----	\$3,634			\$10,027	\$796	\$109	(*)
Cost of buildings, machinery, and equipment erected or installed during year-----	\$7,146	\$10	\$1,985	\$35,702	\$2,483	\$1,195	\$3,486
Buildings-----	\$100	\$10		\$986	\$1,238	\$785	\$279
Machinery and equipment, total-----	\$7,046		\$1,985	\$34,788	\$1,245	\$410	\$3,208
Purchased in new condition-----	\$1,800		\$1,010	\$9,437			
Purchased in used condition-----	\$5,246		\$875	\$25,351	\$1,245	\$410	\$3,208
Number of man-hours worked by wage earners-----	155,714	14,024	25,593	84,659	95,875	33,568	27,822
Average hourly earning of wage earners-----	\$0.54	\$0.46	\$0.46	\$0.50	\$0.44	\$0.48	\$0.32
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	1,867	180	917	1,023	505	233	350
Per wage earner-----	22.2	22.5	57.3	23.2	11.7	12.3	25.0
Prime movers-----	480	55	525	628	451	255	350
Electric motors driven by purchased energy-----	1,187	125	592	395	52		
Horsepower rating of electric motors driven by energy generated by reporting companies-----							
Fuels consumed:							
Anthracite (tons of 2,000 pounds)-----	5						(*)
Bituminous coal (tons of 2,000 pounds)-----	417		45			1	*100
Fuel oils (barrels of 42 gallons)-----	278		96	313		25	(*)
Gasoline and kerosene (gallons)-----		22,173	16,909	6,088	14,154	4,695	*10,000
Natural gas (thousands of cubic feet)-----				56,319			(*)
Electric energy consumed (thousands of kw.-hrs.), total-----	1,103	24	125	334	50	9	(*)
Purchased-----	927	24	125	334	50	9	
Generated by reporting companies-----	176						(*)

² Companies with operations in more than 1 industry are counted only once in the totals.³ Includes amounts received or due for contract services performed during the year.⁴ Nonproducing operations reported no expenditures for contract work; contract-service operators were not asked to report expenditures for contract work.⁵ Excludes statistics for contract-service operations.⁶ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations include operations of 1 company in the crude-petroleum and natural-gas industry and 1 mine and 1 preparation plant in the field-spar industry.⁷ Represents 1 common clay and shale mine and 4 mines and 3 preparation plants in the bentonite industry.⁸ Represents 2 lithium-minerals mines, 1 gypsum mine, and 2 mica mines.⁹ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN SOUTH DAKOTA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Butte	Custer	Dewey	Fall River	Grant	Lawrence	Minnehaha	Tennington	All other 1
Number of operating companies ²	57	4	12	5	5	6	7	5	10	7
Number of mines and quarries	55	3	12	5	5	6	6	6	10	6
Number of gas wells producing on December 31, 1939	2						7	5	4	2
Number of preparation plants	23	2			1					4
Value of all products	\$22,680,199	\$252,215	\$64,383	\$62,155	\$59,758	\$190,840	\$21,595,463	\$158,531	\$188,726	\$128,182
Number of persons engaged, total	2,924	45	45	58	20	80	2,454	118	84	60
Wage earners (average for the year)	2,653	42	50	28	14	75	2,219	105	66	54
Salaried employees	264	3	2	6	6	3	211	12	16	5
Proprietors and firm members	27		15	4		2	4	1	2	1
Performing manual labor	20		11	4			5		1	1
Principal expenses designated below, total	\$7,711,347	\$148,642	\$39,224	\$40,330	\$39,149	\$135,755	\$6,999,721	\$105,984	\$151,022	\$70,822
Wages	\$4,693,720	\$41,526	\$25,120	\$16,179	\$9,770	\$54,712	\$4,541,382	\$56,741	\$54,654	\$40,836
Salaries	\$699,599	\$7,804	\$4,500	\$12,900	\$15,009	\$4,700	\$759,160	\$18,907	\$27,460	\$9,369
Supplies and materials	\$1,715,464	\$69,623	\$5,715	\$5,633	\$6,511	\$22,975	\$1,546,878	\$21,578	\$26,542	\$12,009
Fuel	\$202,299	\$12,099	\$5,593	\$1,536	\$5,008	\$3,555	\$245,107	\$2,555	\$4,566	\$3,680
Purchased electric energy	\$175,117	\$7,628		\$65	\$1,946	\$16,977	\$127,194	\$5,558	\$7,871	\$4,878
Contract work	\$21,248	\$9,122	\$796	\$5,797	\$905	\$5,634		\$685	\$109	
Cost of buildings, machinery, and equipment erected or installed during year	\$1,096,947	\$9,732	\$4,817	\$41,009	\$1,055	\$7,145	\$987,208	\$1,037	\$7,178	\$27,665
Buildings	\$351,687	\$758	\$1,348		\$180	\$100	\$345,505	\$190	\$2,508	\$150
Machinery and equipment	\$735,210	\$8,976	\$5,569	\$41,009	\$875	\$7,046	\$640,703	\$847	\$4,670	\$27,515
Horsepower rating of prime movers and electric motors driven by purchased energy, total	46,047	617	456	255	577	1,667	59,154	1,121	910	1,310
Prime movers	58,325	472	456	255	315	480	54,802	555	573	655
Electric motors driven by purchased energy	7,724	145			262	1,187	4,552	766	337	675
Horsepower rating of electric motors driven by energy generated by reporting companies	29,865					325	29,530		8	
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	5					5				
Bituminous coal (tons of 2,000 pounds)	59,909					417	59,425		1	65
Fuel oils (barrels of 42 gallons)	2,094			348		278	227	102	625	513
Gasoline and kerosene (gallons)	203,616	5,268	18,828		51,551		101,320	14,316	10,446	22,287
Natural gas (thousands of cubic feet)	239,754	58,319					183,415			
Electric energy consumed (thousands of kw.-hrs.), total	66,026	334		2	61	1,103	65,729	210	411	176
Purchased	11,395	334		2	61	927	9,272	210	411	176
Generated by reporting companies	54,631					176	54,457			

¹Codington, Hanson, Hughes, Meade, and Perkins.²Companies with operations in more than 1 county are counted only once in the totals.

TENNESSEE

Tennessee ranked twenty-seventh among the States in value of products of mineral industries in 1939, and thirteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 91 percent of that in 1929, and the number of wage earners 97 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 88 percent of that in 1919, and the number of wage earners 77 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 156 percent of that in 1929, and 215 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 46 percent of the total value of products and 60 percent of the total number of wage earners. (See table 2.) The phosphate-rock

industry ranked second, with 17 percent of the total value of products and 11 percent of the wage earners. The State ranked first among all States in value of products in the rough-dimension marble industry, accounting for 42 percent of the total value of products reported for the industry in the United States. Tennessee ranked second among all States in value of products in the phosphate-rock industry and third in the barite industry. (See reports for these industries.)

Other mineral industries in the State were crude petroleum and natural gas, iron ore, copper ore, lead ore, zinc ore, manganese ore, limestone, sandstone, crushed and broken marble, common sand and gravel, glass sand, foundry sand, kaolin and ball clay, common clay and shale, fuller's earth, and tripoli. Mineral operations (other than oil and gas wells) were located in 52 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text refer to producing operations only; for information regarding contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN TENNESSEE: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale and crude-petroleum and natural-gas industries)		1929 AND 1919 (Excluding the common clay and shale, common sand and gravel, and foundry-sand industries)	
		1939	1929	1929	1919
Number of mines and quarries-----	256	240	189	217	263
Number of oil and gas wells producing at end of year-----	41			41	14
Value of all products-----	\$22,133,206	\$21,961,617	\$24,186,449	\$20,490,118	\$25,292,114
Number of persons engaged, total-----	12,578	12,467	12,648	11,927	15,450
Wage earners (average for the year)-----	11,723	11,620	11,536	11,195	14,470
Salaried employees-----	739	735	861	827	915
Proprietors and firm members-----	116	114	51	106	67
Performing manual labor-----	89	89	(*)	87	17
Principal expenses designated below, total-----	\$16,195,534	\$15,069,556	\$17,415,137	\$15,217,916	\$19,051,909
Wages-----	\$10,459,480	\$10,395,551	\$10,815,521	\$10,011,334	\$12,007,358
Salaries-----	\$1,486,080	\$1,476,367	\$1,669,144	\$1,362,674	\$1,636,586
Supplies and materials-----	\$2,602,209	\$2,590,223	\$2,819,435	\$2,418,865	\$2,692,507
Fuel-----	\$569,449	\$570,223	\$608,841	\$482,680	\$1,087,175
Purchased electric energy-----	\$987,898	\$962,932	\$986,496	\$969,327	\$222,808
Contract work-----	\$99,447	\$71,427	\$143,197	\$43,016	\$173,796
Cost of machinery and equipment installed during year-----	\$1,006,615	\$1,002,099	\$1,101,964	\$728,665	(*)
Horsepower rating of power equipment, total-----	136,526	134,094	86,257	122,022	56,695
Per wage earner-----	11.6	11.6	7.2	10.9	3.9
Prime movers-----	46,162	40,761	20,434	33,711	26,297
Electric motors driven by purchased energy-----	64,364	63,923	55,823	66,321	17,598
Electric energy consumed (thousands of kw.-hrs.), total-----	145,282	144,975	97,355	141,000	(*)
Purchased-----	142,020	141,713	89,393	137,766	(*)
Generated by reporting companies-----	3,262	3,262	7,972	3,234	(*)

* Includes 1 mine and 1 preparation plant in the glass-sand industry. Also includes 13 limestone mines and quarries, with products valued at \$696,643, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

† Not available.

‡ Includes 10 horsepower for equipment operated by purchased power other than electric.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TENNESSEE, BY INDUSTRY: 1939

(For producing operations only)¹

ITEM	Total	FUELS		Metallic ores ²	STONE ³		
		Crude petroleum and natural gas	Bituminous coal		Crushed and broken limestone	Rough dimension	
						Sandstone	Marble
Number of operating companies ⁴	220	8	114	5	32	4	6
Number of mines and quarries	256		125	9	37	4	12
Number of oil and gas wells producing on December 31, 1939	41	41					
Number of preparation plants	88		4	7	30	1	1
Value of all products ⁵	\$22,155,206	\$44,878	\$10,104,225	\$3,542,204	\$1,242,855	\$80,968	\$1,059,517
Number of persons engaged, total	7 12,578	32	7,588	1,157	538	42	721
Wage earners (average for the year)	11,725	27	7,081	1,044	595	56	711
Number receiving pay during pay-roll period ending nearest the 15th of:							
January	12,088	26	7,070	1,049	462	30	764
February	12,164	26	7,765	1,029	490	28	717
March	12,091	26	7,535	1,069	540	37	723
April	7,598	27	2,715	1,045	558	40	780
May	10,774	26	6,081	1,087	827	39	748
June	11,282	29	6,512	1,076	659	35	768
July	11,710	27	6,861	1,109	641	54	776
August	11,953	27	7,371	828	652	38	765
September	12,182	27	7,466	1,016	629	44	662
October	12,969	27	8,226	1,041	675	39	652
November	12,960	27	8,382	1,068	654	38	625
December	12,127	27	8,487	1,094	589	39	597
Salaried employees	7 755	5	586	113	34	6	10
Proprietors and firm members	116		90		9		
Performing manual labor	69		64		2		
Principal expenses designated below, total	7 \$19,193,534	\$50,885	\$9,646,377	\$2,549,037	\$785,668	\$35,155	\$725,899
Wages	\$10,458,480	\$22,141	\$6,580,669	\$1,186,645	\$423,326	\$19,542	\$506,977
Salaries	7 \$1,486,080	\$6,456	\$761,935	\$253,432	\$55,093	\$9,766	\$37,060
Supplies and materials	\$2,602,209	\$5,618	\$977,572	\$812,493	\$207,823	\$2,266	\$80,352
Fuel	\$589,449	\$670	\$57,994	\$22,593	\$30,377	\$650	\$62,044
Purchased electric energy	\$967,899		\$290,026	\$267,416	\$69,047	\$931	\$49,549
Contract work	\$89,447	\$18,020	\$8,181	\$6,460			\$9,697
Cost of buildings, machinery, and equipment erected or installed during year	\$1,230,019	\$5,916	\$481,670	\$51,564	\$30,382		\$4,561
Buildings	\$225,204		\$69,745	\$10,061	\$5,650		
Machinery and equipment, total	\$1,006,815	\$5,916	\$411,925	\$41,503	\$24,732		\$4,561
Purchased in new condition	\$955,268	\$1,500	\$365,916	\$41,503	\$19,382		\$2,321
Purchased in used condition	\$71,547	\$2,416	\$26,009		\$5,350		\$2,040
Number of man-hours worked by wage earners	19,578,185	45,697	10,212,818	2,155,180	1,135,107	61,418	1,545,247
Average hourly earning of wage earners	\$0.55	\$0.51	\$0.64	\$0.55	\$0.37	\$0.32	\$0.53
Horsepower rating of prime movers and electric motors driven by purchased energy, total	136,526	405	46,268	29,014	13,504	207	8,061
Per wage earner	11.6	14.9	6.5	27.8	22.7	5.8	11.4
Prime movers	42,162	405	12,555	650	4,411	70	4,220
Electric motors driven by purchased energy	94,364		55,915	28,364	9,093	137	5,861
Horsepower rating of electric motors driven by energy generated by reporting companies	4,296		3,380	819			
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	775						
Bituminous coal (tons of 2,000 pounds)	158,045		54,645	5,390	4,902	20	20,891
Fuel oils (barrels of 42 gallons)	17,980		1,815	87	5,674		
Gasoline and kerosene (gallons)	671,402		20,391	40,750	115,378	2,946	30,838
Natural gas (thousands of cubic feet)	5,918	5,918					
Electric energy consumed (thousands of kw.-hrs.), total	145,282		22,204	63,579	5,703	39	4,134
Purchased	142,020		21,144	61,209	5,703	39	4,134
Generated by reporting companies	3,262		1,060	2,170			

¹ 1 contract-service operation and nonproducing operations of 1 company in the crude-petroleum and natural-gas industry were reported, but are not covered in the table to avoid disclosure of confidential information.

² Represents 2 mines and 2 beneficiating plants in the iron-ore industry, 2 mines and 1 mill in the copper-ore industry, 1 mine and 1 mill in the lead-ore industry (in all other tables except Appendix A, statistics for this mine and mill have been included with those for the zinc-ore industry to avoid disclosure of confidential information), 3 mines and 2 mills in the zinc-ore industry, and 1 mine and 1 mill in the manganese-ore industry.

³ 1 quarry and 1 crushing plant in the crushed and broken marble industry, 1 mine and 1 preparation plant in the glass-sand industry, and 1 mine and 1 preparation plant in the fuller's-earth industry are included under "All other" to avoid disclosure of confidential information.

tennessee

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TENNESSEE, BY INDUSTRY: 1939—Continued

(For producing operations only):

ITEM	SAND AND GRAVEL ¹		CLAY AND SHALE ²		Barite	Phosphate rock	All other ⁴
	Common sand and gravel	Foundry sand	Kaolin and ball clay	Common clay and shale			
Number of operating companies ⁵	18	3	3	13	5	12	4
Number of mines and quarries.....	20	3	3	16	6	14	4
Number of oil and gas wells producing on December 31, 1939.....							
Number of preparation plants.....	20	1			5	15	4
Value of all products ⁶	\$1,418,917	\$87,560	\$423,783	\$136,811	\$369,987	\$3,753,827	\$68,368
Number of persons engaged, total.....	465	47	151	79	210	1,306	66
Wage earners (average for the year).....	412	40	156	76	196	1,306	56
Number receiving pay during pay-roll period ending nearest the 15th of:							
January.....	560	35	107	65	156	1,341	48
February.....	550	33	102	60	147	1,362	37
March.....	570	36	105	66	160	1,352	70
April.....	415	32	107	75	206	1,364	66
May.....	459	37	126	88	203	1,356	65
June.....	433	36	141	87	212	1,261	65
July.....	426	42	166	94	229	1,244	39
August.....	448	39	181	79	219	1,267	52
September.....	432	49	154	85	223	1,295	50
October.....	430	46	154	82	226	1,310	49
November.....	414	50	156	59	217	1,307	53
December.....	427	47	146	66	214	1,346	55
Salaried employees.....	47	4	15	1	9	76	8
Proprietors and firm members.....	6	5		2	2	4	
Performing manual labor.....	1	1			1		
Principal expenses designated below, total.....	\$364,022	\$28,280	\$163,622	\$63,316	\$240,590	\$1,900,561	\$70,572
Wages.....	\$360,553	\$15,805	\$83,364	\$50,798	\$120,021	\$1,053,272	\$35,579
Salaries.....	\$113,989	\$9,140	\$39,423	\$24,7	\$27,196	\$134,161	\$18,400
Supplies and materials.....	\$164,676	\$390	\$26,326	\$17,756	\$4,297	\$265,381	\$6,757
Fuel.....	\$86,973	\$240	\$12,584	\$9,556	\$39,332	\$266,386	\$4,050
Purchased electric energy.....	\$71,400	\$2,205	\$1,925	\$4,967	\$5,744	\$196,705	\$5,966
Contract work.....	\$46,431					\$466	
Cost of buildings, machinery, and equipment erected or installed during year.....	\$337,595		\$19,823		\$36,813	\$254,904	\$6,961
Buildings.....	\$89,445		\$5,695		\$13,766	\$30,696	\$177
Machinery and equipment, total.....	\$248,150		\$16,128		\$23,147	\$224,108	\$6,814
Purchased in new condition.....	\$233,217		\$15,956		\$20,847	\$205,877	\$6,669
Purchased in used condition.....	\$14,933		\$222		\$2,290	\$18,232	\$145
Number of man-hours worked by wage earners.....	875,681	49,067	224,168	130,236	325,536	2,730,248	95,800
Average hourly earning of wage earners.....	\$0.43	\$0.32	\$0.37	\$0.39	\$0.37	\$0.58	\$0.38
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	12,972	95	2,816	1,429	2,431	18,511	995
Per wage earner.....	31.5	2.3	20.7	18.6	12.5	14.0	17.2
Prime movers.....	7,453		2,265	990	2,296	6,745	295
Electric motors driven by purchased energy.....	5,519	95	555	431	135	11,565	700
Horsepower rating of electric motors driven by energy generated by reporting companies.....	95				2		
Fuels consumed:							
Anthracite (tons of 2,000 pounds).....	775						
Bituminous coal (tons of 2,000 pounds).....	9,441		998	2,767	1,518	79,690	635
Fuel oils (barrels of 42 gallons).....	4,421		433	46	1,324	4,521	159
Gasoline and kerosene (gallons).....	210,329	1,200	46,470	6,138	130,235	61,727	13,000
Natural gas (thousands of cubic feet).....							
Electric energy consumed (thousands of kw.-hrs.), total.....	3,671	104	97	307	342	24,822	280
Purchased.....	3,644	104	97	307	341	24,816	280
Generated by reporting companies.....	27				1	4	

¹Represents 1 quarry and 1 crushing plant in the crushed and broken marble industry, 1 mine and 1 preparation plant in the glass-sand industry, 1 mine and 1 preparation plant in the fuller's-earth industry, and 1 mine and 1 mill in the tripoli industry.

²Companies with operations in more than 1 industry are counted once in the totals.

³Includes amounts received or due for contract services performed during the year.

⁴Includes statistics for central-office employees in the feldspar and crushed and broken granite industries and at central offices not classified by industry.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TENNESSEE, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Anderson	Benton	Bledsoe	Blount	Campbell	Clai-borne	Cumber-land	David-son	Fent-ress	Frank-lin	Hamil-ton	Henry
Number of operating companies ¹	212	12	4	4	6	29	10	8	8	7	5	14	3
Number of mines and quarries	256	14	5	4	7	31	11	8	9	6	5	15	4
Number of preparation plants	88		4	1	4	2		1	5	2	5	3	1
Value of all products	\$22,088,328	\$1,970,449	\$203,722	\$75,525	\$358,123	\$2,845,147	\$2,292,769	\$103,977	\$561,554	\$527,032	\$342,536	\$228,440	\$207,074
Number of persons engaged, total	12,546	1,534	92	80	189	1,959	1,750	65	195	557	148	141	96
Wage earners (average for the year)	11,696	1,255	80	74	181	1,839	1,676	54	157	534	137	128	86
Salaried employees	734	71	8	3	7	102	52	5	36	21	11	8	10
Proprietors and firm members	116	6	4	3	1	18	2	6	2	2		5	
Performing manual labor	69	5	1			15		5				2	
Principal expenses designated below, total	\$16,142,649	\$1,629,624	\$81,001	\$58,942	\$203,104	\$2,301,964	\$1,913,237	\$55,925	\$389,842	\$505,904	\$199,305	\$162,257	\$78,286
Wages	\$10,436,239	\$1,245,232	\$55,280	\$45,805	\$123,503	\$1,799,033	\$1,511,287	\$36,781	\$133,051	\$389,397	\$106,356	\$102,158	\$52,217
Salaries	\$1,479,614	\$111,279	\$12,315	\$4,378	\$27,115	\$132,623	\$101,013	\$8,266	\$123,846	\$34,827	\$25,172	\$15,944	\$11,577
Supplies and materials	\$2,598,591	\$197,180	\$14,635	\$6,366	\$18,516	\$236,136	\$219,155	\$4,552	\$98,492	\$54,397	\$37,308	\$29,207	\$7,324
Fuel	\$598,779	\$17,158	\$16,367	\$634	\$7,827	\$4,334	\$5,214	\$694	\$13,963	\$22,857	\$12,775	\$5,389	\$4,539
Purchased electric energy	\$367,899	\$63,814	\$2,205	\$1,759	\$25,143	\$79,328	\$78,568	\$5,632	\$20,490	\$1,800	\$17,694	\$9,259	\$2,408
Contract work	\$71,427	\$4,955								\$2,826		\$300	
Cost of buildings, machinery, and equipment erected or installed during year	\$1,226,103	\$48,590	\$19,985		\$581	\$288,311	\$49,293	\$100	\$22,500	\$84,567	\$12,686	\$4,382	\$5,938
Buildings	\$223,204	\$7,412			\$250	\$36,645	\$4,006			\$19,768		\$2,000	\$1,661
Machinery and equipment	\$1,002,899	\$42,188	\$19,985		\$331	\$251,666	\$45,287	\$100	\$22,500	\$74,801	\$12,686	\$2,382	\$4,277
Horsepower rating of prime movers and electric motors driven by purchased energy, total	136,125	8,826	1,221	825	4,085	14,001	8,939	401	3,186	3,115	2,576	2,096	1,283
Prime movers	41,789	2,410	1,128	625	1,567	3,159	1,426	135	635	2,803	1,050	775	670
Electric motors driven by purchased energy	94,336	6,416	93	200	2,518	10,842	7,513	266	2,555	312	1,548	1,321	413
Horsepower rating of electric motors driven by energy generated by reporting companies	4,286	85	15				607			1,405			
Fuels consumed: ²													
Anthracite (tons of 2,000 pounds)	775												
Bituminous coal (tons of 2,000 pounds)	158,045	7,753	329		1,779	1,182	1,509	10	2,146	11,609	2,185	1,877	501
Fuel oils (barrels of 42 gallons)	17,980	500	106	103		399	15	9	1,478	447		148	22
Gasoline and kerosene (gallons)	671,402	4,187	75,543	2,442	17,419	10,515	1,176	3,088	20,000	43,710	29,907	10,210	18,586
Electric energy consumed (thousands of kw.-hrs.), total	145,282	3,454	109	67	1,775	6,187	5,582	192	1,048	552	1,547	1,004	114
Purchased	142,020	3,356	104	67	1,775	6,187	5,198	192	1,048	67	1,347	1,004	114
Generated by reporting companies	3,262	118	5				384			485			

ITEM	Henri	Marion	Maury	Morgan	Overton	Putnam	Rhea	Scott	Sequit-chie	Shelby	Van Buren	White	All others
Number of operating companies ¹	15	13	12	9	3	4	5	10	4	5	3	9	29
Number of mines and quarries	19	13	13	9	3	4	3	10	4	5	3	9	42
Number of preparation plants	7	3	13	1	1	1				3		4	27
Value of all products	\$2,428,624	\$1,269,916	\$3,587,970	\$348,865	\$16,100	\$50,422	\$79,252	\$259,186	\$89,927	\$252,618	\$41,461	\$69,512	\$4,101,111
Number of persons engaged, total	1,278	754	1,200	240	25	77	95	206	78	101	45	46	1,612
Wage earners (average for the year)	1,145	724	1,129	223	21	67	90	189	71	66	42	59	1,696
Salaried employees	120	17	68	8		5	3	8	4	14	1	1	148
Proprietors and firm members	3	13	5	9	4	5	2	9	3	1	2	6	3
Performing manual labor	8	11		8	4		2	7	3	1		2	2
Principal expenses designated below, total	\$2,079,266	\$951,311	\$1,659,474	\$277,627	\$14,999	\$37,761	\$82,976	\$198,647	\$67,320	\$239,708	\$34,801	\$40,785	\$2,900,591
Wages	\$1,066,071	\$745,677	\$993,303	\$168,202	\$8,987	\$28,805	\$44,751	\$148,992	\$56,003	\$203,929	\$26,846	\$25,233	\$1,506,954
Salaries	\$325,615	\$31,980	\$119,093	\$15,244	\$2,007	\$6,574	\$15,115	\$3,848	\$24,097	\$2,184	\$1,800	\$338,363	\$386,363
Supplies and materials	\$441,555	\$122,781	\$244,598	\$38,680	\$4,474	\$5,421	\$6,378	\$24,630	\$6,512	\$33,809	\$3,693	\$6,591	\$684,032
Fuel	\$87,890	\$14,148	\$239,639	\$10,410	\$1,487	\$964	\$4,431	\$5,248	\$925	\$11,500	\$1,027	\$2,638	\$99,136
Purchased electric energy	\$183,060	\$36,747	\$162,395	\$22,091	\$51	\$964	\$942	\$4,661	\$32	\$55,855	\$651	\$5,125	\$217,785
Contract work	\$15,613		\$458		\$100					\$40,715			\$6,460
Cost of buildings, machinery, and equipment erected or installed during year	\$46,403	\$23,159	\$220,956	\$5,765	\$900	\$1,812	\$993	\$1,465	\$5,204	\$252,993	\$410	\$1,150	\$120,876
Buildings	\$700	\$9,880	\$30,995		\$300			\$715	\$2,077	\$81,073	\$360	\$300	\$25,114
Machinery and equipment	\$45,703	\$13,269	\$190,961	\$5,765	\$600	\$1,812	\$993	\$750	\$1,127	\$171,920	\$50	\$850	\$95,762
Horsepower rating of prime movers and electric motors driven by purchased energy, total	24,722	8,841	15,723	1,590	75	910	238	950	40	3,670	615	680	27,315
Prime movers	6,271	2,767	5,335	660	75	710	58	760	40	1,441	615	490	5,996
Electric motors driven by purchased energy	18,451	6,064	10,388	930		200	180	200		2,229	200	190	21,379
Horsepower rating of electric motors driven by energy generated by reporting companies			1,285							80			619
Fuels consumed: ²													
Anthracite (tons of 2,000 pounds)													775
Bituminous coal (tons of 2,000 pounds)	24,336	4,937	70,404	9,015		153	1,477	2,178	200		473	378	14,258
Fuel oils (barrels of 42 gallons)	618	81	4,521	31	8			110	23	2,255	11	5,491	1,668
Gasoline and kerosene (gallons)	69,711	4,262	49,727	475	11,833	3,750		308	1,620	33,410	171	4,866	234,749
Electric energy consumed (thousands of kw.-hrs.), total	20,265	3,492	19,672	1,970	4	28	33	285	2	2,091	27	242	75,642
Purchased	20,265	3,492	19,670	1,961	4	28	33	280	2	2,069	27	242	75,679
Generated by reporting companies			2	69				5		22			2,192

¹Companies with operations in more than 1 county are counted only once in the totals.²Charlottesville, Carter, Come, Denatur, Dickson, Giles, Grainger, Greene, Grundy, Hickman, Houston, Humphreys, Jefferson, Johnson, Lewis, McMinn, Madison, Marshall, Monroe, Montgomery, Polk, Roane, Sullivan, Union, Washington, Weakley, Williamson, Wilson, and central offices in Union County.³The natural gas was reported consumed.

TEXAS

Texas was the largest producer of crude petroleum and natural gas in the United States and ranked first among all States in value of products of mineral industries in 1939. In terms of number of wage earners employed, Texas ranked fifth, following Pennsylvania, West Virginia, Kentucky, and Illinois, large coal-producing States.¹ (See table 2, General Summary.) Excluding the crude-petroleum and natural-gas industry and others not canvassed in 1929, the 1939 value of products reported for the State was 69 percent of that for 1929, and the number of wage earners 72 percent. (See table 1.) Compared with 1919, when the crude-petroleum and natural-gas industry and the natural-gasoline industry were covered in the Census canvass, the 1939 value of products was 344 percent and the number of wage earners 204 percent of the 1919 figures. The difference in the totals for value of products for 1929 and 1939 is accounted for chiefly by a decrease for the sulfur industry, and the difference for wage earners by decreases in the bituminous-coal and limestone industries. The increases between 1919 and 1939 are accounted for chiefly by the large expansion of the crude-petroleum and natural-gas and natural-gasoline industries. Total horsepower rating of power equipment in 1939 was 133 percent of that in 1929 for mineral industries covered in both years, and more than nine times that reported for 1919 for industries covered in 1939 and 1919.

The crude-petroleum and natural-gas industry in 1939 accounted for 89 percent of the value of products reported for

mineral industries in the State, and for 90 percent of the wage earners employed. The natural-gasoline industry ranked second, with 5 percent of the total value of products and 7 percent of the wage earners. Texas accounted for 38 percent of the total output of crude petroleum and 40 percent of the total output of natural gas reported by the crude-petroleum and natural-gas industry. The State ranked second in value of products among all States in the natural-gasoline industry, accounting for 29 percent of the total value of products for the industry in the United States. Texas was the chief producer of sulfur and fuller's earth in the United States, accounting for 79 percent and 34 percent, respectively, of the value of products of these industries. The State ranked second, in value of products, in the lignite and natural sodium compounds industries. (See reports for these industries.)

Other mineral industries in the State were bituminous coal, iron ore, silver ore, mercury, limestone, granite, basalt, sandstone, marble, miscellaneous stone, common sand and gravel, glass sand, foundry sand, kaolin and ball clay, fire clay, common clay and shale, bentonite, gypsum, native asphalt and bitumens, natural sodium compounds, and rock salt. Mineral operations other than those in the crude-petroleum and natural-gas industry for which statistics were not obtained separately by county, were located in 121 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN TEXAS: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and natural-gasoline industries)		1919 AND 1919 (Excluding the common clay and shale, sand and gravel, natural sodium compounds, and rock-salt industries)	
		1929 ¹	1929	1919 ²	1919
Number of mines and quarries.....	192	160	150	97	81
Number of oil and gas wells producing at end of year.....	89,568			89,568	8,749
Number of natural-gasoline plants.....	169			169	25
Value of all products.....	\$555,207,704	\$54,500,944	\$49,756,582	\$580,414,526	\$180,017,421
Number of persons engaged, total.....	52,149	5,321	7,379	50,628	22,590
Wage earners (average for the year).....	38,420	4,695	6,944	27,030	15,194
Salaried employees.....	11,819	975	769	11,694	4,242
Proprietors and firm members.....	1,810	51	48	1,684	494
Performing manual labor.....	286	15	(³)	286	52
Principal expenses designated below, total.....	\$207,036,053	\$11,285,494	\$20,079,983	\$204,180,337	\$112,992,189
Wages.....	\$55,825,913	\$4,948,741	\$7,609,259	\$54,675,015	\$29,557,997
Salaries.....	\$31,854,989	\$1,320,310	\$2,194,107	\$31,579,236	\$6,429,558
Supplies and materials.....	\$32,025,456	\$2,386,176	\$3,475,652	\$31,242,935	\$45,040,655
Fuel.....	\$9,446,758	\$1,455,000	\$4,976,870	\$9,020,129	\$6,095,106
Purchased electric energy.....	\$2,240,048	\$554,848	\$369,361	\$2,028,205	\$95,413
Contract work.....	\$76,645,059	\$170,410	\$30,635	\$76,595,121	\$25,775,700
Cost of machinery and equipment installed during year.....	\$85,782,595	\$577,291	\$2,531,639	\$96,266,415	(³)
Horsepower rating of power equipment, total.....	1,224,293	120,150	62,914	1,198,976	129,065
Per wage earner.....	31.9	23.5	12.7	32.1	7.1
Prime movers.....	1,080,521	80,739	62,278	1,056,363	125,909
Electric motors driven by purchased energy.....	143,772	29,391	20,636	134,611	5,194
Electric energy consumed (thousands of kw.-hrs.), total.....	291,758	46,466	56,411	277,720	(³)
Purchased.....	194,758	24,237	17,009	181,043	(³)
Generated by reporting companies.....	97,001	24,239	19,402	96,677	(³)

¹ Includes 2 mines and 2 preparation plants in the rock-salt industry. This industry was not included in the census of mineral industries for 1929.

² Includes 12 limestone quarries, with products valued at \$412,496, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

³ Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL

ITEM		All operations in all industries	PRODUCING OPERATIONS							
			Total	Fuels				Iron ore, silver ore, and mercury ³	Stone	
				Crude petroleum and natural gas	Natural gasoline	Bituminous coal	Lignite		Crushed and broken	
									Limestone	Other ⁴
1	Number of operating companies ⁷	3,466	2,691	2,695	90	4	8	6	21	7
2	Number of mines and quarries.....	196	192			4	8	5	24	7
3	Number of oil and gas wells producing on December 31, 1939.....	89,568	89,568	89,568						
4	Number of preparation plants.....	285	282		169	1		4	17	7
5	Value of all products ⁸	\$650,172,858	\$555,207,704	\$492,198,845	\$28,252,067	\$52,470	\$870,703	\$985,528	\$1,190,311	\$186,045
6	Number of persons engaged, total.....	75,265	52,149	43,246	3,441	94	563	500	587	65
7	Wage earners (average for the year).....	56,124	38,420	30,823	2,766	75	542	470	536	52
	Number receiving pay during pay-roll period ending nearest the 15th of:									
8	January.....	54,819	38,139	30,580	2,586	269	553	426	560	56
9	February.....	55,539	38,049	30,589	2,605	93	539	451	614	54
10	March.....	55,932	38,582	30,933	2,715	84	539	461	607	43
11	April.....	55,812	38,359	30,806	2,815	43	528	476	557	42
12	May.....	56,418	38,479	31,065	2,788	9	499	469	528	32
13	June.....	56,419	38,571	31,041	2,834	37	495	480	576	33
14	July.....	57,143	39,109	31,421	2,854	8	559	492	541	31
15	August.....	56,169	38,816	31,008	2,862	45	572	500	564	38
16	September.....	55,808	37,981	30,207	2,821	68	575	493	537	37
17	October.....	56,614	38,122	30,425	2,783	75	588	476	456	77
18	November.....	57,068	38,363	30,859	2,766	85	533	475	467	63
19	December.....	56,630	38,455	30,940	2,784	87	549	439	421	54
20	Salaried employees.....	14,644	11,819	10,573	669	16	15	30	30	11
21	Proprietors and firm members.....	2,495	1,910	1,850	6	3	6		1	2
22	Performing manual labor.....	447	286	271		2	3		1	1
23	Principal expenses designated below, total.....	* \$241,041,825	\$207,036,055	\$181,529,349	\$14,056,885	\$44,643	\$588,452	\$703,446	\$798,932	\$95,606
24	Wages.....	\$80,895,076	\$55,825,913	\$46,559,650	\$4,325,756	\$34,497	\$472,361	\$415,551	\$564,740	\$56,002
25	Salaries.....	\$39,998,783	\$31,854,859	\$28,737,967	\$1,595,682	\$2,853	\$30,956	\$62,962	\$64,828	\$21,082
26	Supplies and materials.....	* \$32,095,506	\$22,083,456	\$25,787,359	\$5,266,179	\$5,165	\$54,519	\$188,102	\$259,964	\$24,638
27	Fuel.....	* \$8,472,280	\$8,446,738	\$5,101,370	\$1,866,095	\$1,033	\$9,131	\$35,005	\$47,724	\$11,061
28	Purchased electric energy.....	* \$2,240,108	\$2,240,048	\$1,754,473	\$127,015	\$1,095	\$21,485		\$60,895	\$2,645
29	Contract work.....	* \$77,540,072	\$76,645,089	\$73,568,550	\$2,876,158			\$1,826	\$961	
30	Cost of buildings, machinery, and equipment erected or installed during year.....	* \$91,299,724	\$90,723,082	\$81,794,932	\$8,270,285	\$653	\$66	\$47,544	\$20,492	\$455
31	Buildings.....	10 \$4,077,547	\$3,934,689	\$3,042,474	\$820,378		\$40	\$4,256		\$100
32	Machinery and equipment, total.....	10 \$87,218,880	\$86,766,395	\$78,752,458	\$7,449,905	\$653	\$28	\$43,108	\$20,492	\$335
33	Purchased in new condition.....	10 \$82,496,050	\$82,076,022	\$74,775,775	\$6,885,477	\$653	\$28	\$43,108	\$19,422	\$230
34	Purchased in used condition.....	10 \$4,722,830	\$4,722,871	\$3,976,683	\$664,428				\$1,070	\$85
35	Number of man-hours worked by wage earners.....	101,455,082	71,269,343	55,721,781	5,837,892	92,233	1,204,188	1,012,469	1,055,172	110,806
36	Average hourly earning of wage earners.....	\$0.80	\$0.78	\$0.64	\$0.74	\$0.37	\$0.59	\$0.41	\$0.55	\$0.32
37	Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	1,722,085	1,224,295	862,583	248,228	1,288	5,980	3,789	15,493	2,658
38	Per wage earner.....	30.7	31.9	28.0	89.7	17.2	11.0	8.1	28.9	50.7
39	Prime movers.....	1,568,762	1,080,521	755,988	242,905	1,218	2,492	3,789	6,545	1,978
40	Electric motors driven by purchased energy.....	138,323	143,772	106,595	5,323	70	3,488		9,148	680
41	Horsepower rating of electric motors driven by energy generated by reporting companies.....	58,561	54,010	23,810	13,061			1,635	909	
	Fuels consumed:									
42	Anthracite (tons of 2,000 pounds).....	10 530	530	45				10		
43	Bituminous coal (tons of 2,000 pounds).....	10 13,095	13,095							
44	Fuel oils (barrels of 42 gallons).....	10 434,332	433,247	331,155	24,540	463	8,189	2,208	4,182	659
45	Gasoline and kerosene (gallons).....	10 9,597,532	9,545,200	6,126,218	17,694	46	2,000	13,040	259,837	78,253
46	Natural gas (thousands of cubic feet).....	10 201,618,656	201,555,963	108,568,221	81,162,258	2,749	2,400	26,647	880	
47	Electric energy consumed (thousands of kw.-hrs.), total.....	10 291,761	291,759	168,558	74,576	65	1,928	5,194	4,247	124
48	Purchased.....	10 194,780	194,759	156,654	13,738	50	1,928		4,053	124
49	Generated by reporting companies.....	10 97,001	97,001	11,904	60,838	15		5,194	194	

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

² Represents operations of 49 companies in the crude-petroleum and natural-gas industry, 2 natural-gasoline plants, 2 mines (1 operated in connection with furnaces or retorts) in the mercury industry, and 2 sulfur mines.

³ Represents 1 mine and 1 beneficiating plant in the iron-ore industry, 2 mines and 1 mill in the silver-ore industry, and 2 mines operated in connection with furnaces or retorts in the mercury industry.

⁴ Represents 3 mines and 2 preparation plants in the natural sodium compounds industry, and 2 mines and 2 preparation plants in the rock-salt industry.

⁵ Represents 2 mines and 2 preparation plants in the glass-sand industry, and 2 mines and 2 preparation plants in the foundry-sand industry.

INDUSTRIES IN TEXAS, BY INDUSTRY: 1939

PRODUCING OPERATIONS--Continued																
Stone--Continued		Sand and gravel		Clay and shale						Gypsum	Native asphalt and bitumens	Sulfur	Natural soda compounds and rock salt *	Contract-service operations ¹	Nonproducing operations ²	
Rough dimension		Common sand and gravel	Glass sand and foundry sand ³	Kaolin and ball clay	Fire clay	Common clay and shale	Fuller's earth	Bentonite								
Limestone	Granite															
3	7	40	4	6	3	26	9	3	6	3	4	4	663	54	1	
3	7	54	4	6	3	32	10	4	6	3	5	1	---	4	2	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	---	54	4	4	1	1	7	3	2	3	---	5	---	3	4	
\$23,974	\$21,620	\$3,215,816	\$78,034	\$100,524	\$45,433	\$255,950	\$722,596	\$170,670	\$235,729	\$332,253	\$24,998,760	\$1,243,478	\$94,965,184	---	5	
18	53	1,070	52	75	20	141	205	95	102	108	1,496	258	21,013	101	6	
18	25	950	47	61	18	136	175	80	91	77	1,241	257	17,643	61	7	
19	30	890	44	63	15	127	163	83	75	74	1,279	269	16,732	48	8	
22	31	900	49	63	15	125	178	66	72	74	1,280	251	17,237	53	9	
26	32	925	51	57	19	129	183	88	70	74	1,296	260	17,898	72	10	
17	25	922	45	62	23	146	182	83	87	70	1,189	243	16,988	65	11	
17	25	950	50	62	23	143	164	70	98	75	1,180	194	17,875	64	12	
18	22	1,024	49	57	17	137	170	73	87	79	1,226	96	17,797	61	13	
16	19	959	44	57	25	132	189	82	110	82	1,222	248	17,971	63	14	
18	21	986	51	64	25	146	175	69	92	86	1,220	255	17,959	68	15	
21	18	970	52	61	19	149	180	83	108	80	1,217	258	17,284	58	16	
13	25	1,007	49	57	13	142	172	78	112	77	1,258	269	18,433	59	17	
13	25	900	44	65	13	120	173	96	92	82	1,271	263	18,806	77	18	
10	32	964	34	64	15	116	176	84	83	76	1,251	248	18,348	46	19	
---	2	100	2	12	---	2	28	15	9	29	255	21	2,904	21	20	
---	6	20	3	2	2	3	2	---	2	2	---	---	586	19	21	
---	4	3	---	---	---	---	---	---	---	1	---	---	158	3	22	
\$19,761	\$22,168	\$1,974,853	\$36,147	\$62,587	\$13,486	\$164,325	\$447,264	\$119,561	\$140,774	\$182,263	\$5,325,260	\$710,191	\$33,101,080	\$904,722	23	
\$10,645	\$13,739	\$776,977	\$20,807	\$25,593	\$12,731	\$91,766	\$149,989	\$41,872	\$76,818	\$54,531	\$2,081,440	\$260,548	\$24,978,792	\$90,581	24	
---	\$2,000	\$215,468	\$2,620	\$16,772	---	\$900	\$32,432	\$30,035	\$19,148	\$39,031	\$949,428	\$37,635	\$9,066,596	\$47,328	25	
\$990	\$2,418	\$468,721	\$4,426	\$12,997	\$100	\$55,762	\$147,550	\$37,510	\$32,749	\$47,714	\$1,375,229	\$279,564	\$10,786	\$61,264	26	
\$1,951	\$2,961	\$545,042	\$3,959	\$6,389	\$655	\$24,264	\$29,454	\$7,990	\$5,596	\$7,645	\$897,109	\$45,344	\$14,986	\$10,556	27	
---	\$1,050	\$157,995	\$4,152	\$636	---	\$5,712	\$10,537	\$314	\$12,465	\$15,322	\$11,805	\$45,956	(*)	\$60	28	
\$6,185	---	\$15,850	\$183	---	---	\$9,921	\$9,582	\$1,640	---	---	\$111,239	\$24,164	(*)	\$695,033	29	
\$6,829	\$4,075	\$150,414	\$17,945	\$55,515	---	\$12,091	\$27,369	\$6,297	\$25,642	\$24,945	\$231,272	\$48,511	\$3,797	\$572,945	30	
\$600	---	\$7,271	\$797	\$3,290	---	\$3,352	\$15,237	\$1,700	---	---	\$19,663	\$15,561	(*)	\$142,656	31	
\$6,229	\$4,075	\$143,143	\$17,148	\$30,255	---	\$6,739	\$12,132	\$4,567	\$25,642	\$24,945	\$211,609	\$32,930	(*)	\$429,987	32	
\$6,229	\$75	\$65,891	\$17,148	\$7,120	---	\$5,089	\$9,652	\$4,567	\$25,642	\$24,945	\$198,249	\$32,900	(*)	\$420,028	33	
---	\$4,000	\$77,252	\$23,115	---	---	\$3,650	\$2,600	---	---	\$9,949	\$43,960	\$50	(*)	\$9,959	34	
\$4,222	42,623	2,062,769	68,860	65,418	\$0,816	238,950	353,089	153,928	143,995	137,094	2,474,907	430,271	\$6,081,053	102,896	35	
\$0.31	\$0.32	\$0.39	\$0.30	\$0.39	\$0.41	\$0.38	\$0.42	\$0.27	\$0.53	\$0.35	\$0.94	\$0.81	\$0.93	\$0.98	36	
354	1,808	27,495	626	682	153	3,332	2,582	1,187	2,064	4,296	35,751	4,444	496,365	1,407	37	
19.7	52.3	28.9	13.3	11.2	6.5	24.6	14.9	14.9	22.7	55.8	28.9	18.9	23.1	23.1	38	
564	1,228	19,516	348	587	153	2,689	1,545	1,142	985	2,280	35,516	1,408	496,354	1,407	39	
---	80	7,979	278	95	---	463	1,037	45	1,199	2,036	235	5,041	9,351	---	40	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	---	372	---	---	---	---	---	465	---	689	13,042	---	4,351	---	41	
---	1	474	---	---	---	---	---	---	---	---	---	---	(*)	---	42	
49	1,899	---	---	---	---	297	---	---	---	---	---	---	(*)	---	43	
486	685	39,489	1,254	532	---	1,508	---	2,048	991	3,006	7,645	---	(*)	1,085	44	
6,880	11,069	2,413,425	11,527	10,423	6,521	165,345	55,473	26,654	48,085	29,315	244,955	3,500	(*)	52,332	45	
---	---	24,025	2,529	16,530	---	8,820	90,965	6,058	---	---	11,108,890	545,909	(*)	62,663	46	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	82	9,082	39	16	---	159	1,556	467	600	607	19,831	4,798	(*)	2	47	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	82	8,758	39	16	---	159	1,556	41	600	423	1,989	4,798	(*)	2	48	
---	---	524	---	---	---	---	---	426	---	244	17,862	---	(*)	---	49	

* Represents 1 quarry and 1 crushing plant in the crushed and broken granite industry, 1 quarry and 1 crushing plant in the crushed and broken basalt industry, 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 1 quarry and 1 crushing plant in the crushed and broken marble industry, and 3 quarries and 3 crushing plants in the crushed and broken miscellaneous stone industry.

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

² Includes amounts received or due for contract services performed during the year.

³ Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy, and were not asked to report expenditures for contract work.

⁴ Excludes statistics for contract-service operations.

⁵ Not available.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TEXAS, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Anderson	Bastrop	Bexar	Brasoria	Brown	Burnet	Carson
Number of operating companies ¹	248	4	4	11	4	5	5	5
Number of mines and quarries	192	—	4	11	2	2	5	5
Number of preparation plants	282	5	1	8	2	5	4	8
Value of all products	\$63,006,661	\$447,218	\$71,400	\$296,650	\$8,661,233	\$122,247	\$221,620	\$1,015,644
Number of persons engaged, total	8,903	63	85	151	621	48	74	148
Wage earners (average for the year)	7,597	55	80	125	519	40	70	130
Salaried employees	1,246	8	1	17	102	5	4	10
Proprietors and firm members	60	—	2	9	—	1	—	—
Performing manual labor	15	—	—	—	—	—	—	—
Principal expenses designated below, total	\$25,506,704	\$763,948	\$44,759	\$221,245	\$2,414,350	\$87,751	\$110,255	\$455,480
Wages	\$9,266,263	\$77,625	\$35,132	\$95,146	\$629,890	\$36,002	\$46,699	\$204,533
Salaries	\$3,118,892	\$18,119	\$2,400	\$52,551	\$263,589	\$9,524	\$8,000	\$40,964
Supplies and materials	\$6,236,117	\$103,880	\$5,171	\$48,987	\$697,080	\$35,856	\$38,647	\$105,269
Fuel	\$3,345,569	\$27,605	\$2,056	\$14,443	\$552,377	\$7,448	\$4,660	\$84,539
Purchased electric energy	\$486,375	\$2,015	—	\$6,174	\$11,991	\$95	\$12,229	\$1,902
Contract work	\$5,056,489	\$54,704	—	\$4,144	\$259,455	\$48	—	\$16,282
Cost of buildings, machinery, and equipment erected or installed during year	\$9,928,150	\$981,810	—	\$6,700	\$428,615	\$5,855	—	\$148,010
Buildings	\$892,215	\$52,691	—	—	\$6,544	—	—	\$6,001
Machinery and equipment	\$9,035,935	\$929,119	—	\$6,700	\$422,071	\$5,855	—	\$142,009
Horsepower rating of prime movers and electric motors driven by purchased energy, total	361,710	5,264	489	5,278	14,715	1,131	1,577	9,697
Prime movers	326,533	5,239	459	1,124	14,475	1,131	1,051	9,339
Electric motors driven by purchased energy	35,177	25	—	4,154	240	—	526	148
Horsepower rating of electric motors driven by energy generated by reporting companies	\$0,200	5	—	—	6,064	—	—	1,146
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	495	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	13,095	—	178	1,350	—	—	—	—
Fuel oils (barrels of 42 gallons)	102,092	—	2,000	2,448	81	—	107	—
Gasoline and kerosene (gallons)	3,418,982	—	10,621	71,027	48,297	24,420	51,866	—
Natural gas (thousands of cubic feet)	92,967,742	996,817	—	—	5,087,245	142,314	—	3,725,986
Electric energy consumed (thousands of kw.-hrs.), total	128,201	253	—	218	10,564	42	755	4,529
Purchased	28,104	96	—	218	1,990	6	749	230
Generated by reporting companies	85,097	155	—	—	8,574	36	6	4,291

ITEM	Cass	Dallas	Eastland	Ector	Ellis	El Paso	Fayette	Gray
Number of operating companies ¹	4	9	7	3	4	6	4	20
Number of mines and quarries	2	10	—	—	4	6	5	1
Number of preparation plants	2	9	9	4	1	3	4	14
Value of all products	\$318,047	\$459,841	\$818,327	\$662,427	\$30,879	\$215,143	\$410,288	\$2,408,602
Number of persons engaged, total	65	262	234	117	27	120	155	386
Wage earners (average for the year)	61	177	195	101	24	116	137	281
Salaried employees	5	108	39	16	2	4	16	56
Proprietors and firm members	1	2	—	—	1	—	—	1
Performing manual labor	—	—	—	—	—	—	—	—
Principal expenses designated below, total	\$119,080	\$444,832	\$582,672	\$454,612	\$29,926	\$108,968	\$323,815	\$1,074,372
Wages	\$50,169	\$141,068	\$282,480	\$162,391	\$13,294	\$60,803	\$105,525	\$455,535
Salaries	\$6,859	\$204,068	\$80,454	\$33,486	\$3,000	\$13,050	\$41,352	\$118,779
Supplies and materials	\$23,680	\$41,545	\$90,908	\$172,187	\$8,689	\$15,748	\$99,941	\$277,814
Fuel	\$80,264	\$36,225	\$91,911	\$38,598	\$4,965	\$11,635	\$55,175	\$104,746
Purchased electric energy	—	\$14,270	\$5,547	\$1,255	—	\$5,731	\$20,184	\$14,690
Contract work	\$7,690	\$5,565	\$1,422	\$25,765	—	—	\$1,640	\$106,791
Cost of buildings, machinery, and equipment erected or installed during year	\$164,526	\$17,091	\$6,400	\$246,547	—	—	\$6,267	\$432,370
Buildings	\$9,453	—	\$97	\$16,599	—	—	—	\$11,076
Machinery and equipment	\$155,073	\$17,091	\$6,303	\$230,748	—	—	\$4,567	\$421,294
Horsepower rating of prime movers and electric motors driven by purchased energy, total	3,476	5,965	10,705	10,218	706	1,407	2,131	30,611
Prime movers	3,476	5,962	10,564	10,218	706	707	1,466	28,361
Electric motors driven by purchased energy	—	1,863	141	—	—	700	645	830
Horsepower rating of electric motors driven by energy generated by reporting companies	117	451	551	1,494	—	278	215	1,076
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	1,039	—	—	—	800	—	—
Fuel oils (barrels of 42 gallons)	41	8,508	—	—	1,002	5	2,090	540
Gasoline and kerosene (gallons)	10,653	192,228	—	—	21,793	71,199	431,806	12,795
Natural gas (thousands of cubic feet)	2,868,900	86,806	1,681,682	5,889,780	2,913	—	6,058	6,279,514
Electric energy consumed (thousands of kw.-hrs.), total	710	1,022	5,202	15,567	—	279	1,610	5,977
Purchased	—	974	498	39	—	143	1,547	2,076
Generated by reporting companies	710	48	2,704	15,528	—	136	263	3,901

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TEXAS, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Oregg	Harris	Henderson	Hutchinson	Jack	Llano	McLennan	Milam
Number of operating companies ¹	10	14	5	5	4	6	5	8
Number of mines and quarries	—	18	3	—	1	6	4	8
Number of preparation plants	10	14	2	11	4	2	3	1
Value of all products	\$5,936,061	\$1,514,693	\$1,006,696	\$3,629,255	\$50,154	\$94,535	\$154,850	\$121,545
Number of persons engaged, total	300	241	452	544	57	36	62	66
Wage earners (average for the year)	256	155	437	292	55	29	55	64
Salaries employees	44	85	13	52	2	5	6	2
Proprietors and firm members	—	1	2	—	—	4	1	—
Performing manual labor	—	—	—	—	—	2	1	—
Principal expenses designated below, total	\$1,167,606	\$961,801	\$578,958	\$1,255,555	\$30,700	\$38,548	\$102,796	\$111,093
Wages	\$581,935	\$170,246	\$450,719	\$457,598	\$15,295	\$14,772	\$41,455	\$45,595
Salaries	\$152,598	\$281,559	\$25,071	\$126,116	\$1,612	\$7,079	\$18,990	\$4,015
Supplies and materials	\$336,112	\$174,850	\$58,919	\$560,755	\$4,375	\$2,498	\$30,964	\$25,458
Fuel	\$217,096	\$86,471	\$17,808	\$174,455	\$3,188	\$4,019	\$2,922	\$26,115
Purchased electric energy	\$312	\$16,195	\$21,421	\$15,656	\$2,021	—	\$7,467	\$10,109
Contract work	\$80,555	\$120,000	—	\$109,175	\$3,199	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$303,547	\$328,609	\$6,392	\$625,214	\$94,476	\$4,075	\$3,021	—
Buildings	\$111,598	\$195,819	\$71	\$16,561	—	—	—	—
Machinery and equipment	\$191,949	\$134,790	\$6,321	\$608,653	\$94,476	\$4,075	\$3,021	—
Horsepower rating of prime movers and electric motors driven by purchased energy, total	27,709	6,456	6,428	25,890	761	1,034	2,524	1,487
Prime movers	27,709	5,781	2,940	24,982	561	1,034	1,212	1,237
Electric motors driven by purchased energy	—	655	5,488	1,008	200	—	1,312	200
Horsepower rating of electric motors driven by energy generated by reporting companies	619	125	25	2,346	10	—	—	—
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	—	6	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	—	5,817	—	—	—	140	1,248
Fuel oils (barrels of 42 gallons)	—	5,339	—	—	—	—	1,478	—
Gasoline and kerosene (gallons)	17,694	76,297	11,160	—	—	19,898	9,236	210,000
Natural gas (thousands of cubic feet)	7,145,005	1,513,731	325,242	15,478,070	109,959	—	—	—
Electric energy consumed (thousands of kw.-hrs.), total	4,896	1,256	1,990	10,548	101	—	642	872
Purchased	15	1,242	1,927	2,451	100	—	642	872
Generated by reporting companies	4,881	14	63	7,917	1	—	—	—

ITEM	Moore	Nacogdoches	Nueces	Potter	Rusk	Stephens	Travis	Uvalde
Number of operating companies ¹	5	3	9	5	5	5	6	4
Number of mines and quarries	—	2	—	1	—	—	6	4
Number of preparation plants	5	1	9	3	8	7	4	4
Value of all products	\$1,251,690	\$121,719	\$1,627,586	\$165,775	\$5,899,315	\$1,044,244	\$250,916	\$344,496
Number of persons engaged, total	74	35	112	67	250	175	68	114
Wage earners (average for the year)	68	31	89	30	209	145	59	83
Salaries employees	6	4	23	37	41	30	4	29
Proprietors and firm members	—	—	—	—	—	—	3	2
Performing manual labor	—	—	—	—	—	—	—	1
Principal expenses designated below, total	\$271,291	\$78,921	\$730,058	\$291,967	\$1,426,552	\$454,625	\$124,754	\$191,081
Wages	\$123,602	\$25,631	\$145,534	\$37,213	\$366,010	\$213,327	\$31,908	\$58,190
Salaries	\$12,912	\$30,627	\$40,250	\$103,113	\$170,666	\$56,944	\$9,520	\$56,095
Supplies and materials	\$56,311	\$12,550	\$75,422	\$7,928	\$611,414	\$106,353	\$12,458	\$52,247
Fuel	\$45,764	\$5,475	\$32,256	\$11,531	\$206,924	\$55,467	\$41,603	\$6,659
Purchased electric energy	\$28,972	\$4,638	\$316	\$1,968	\$1,274	\$1,972	\$3,265	\$11,926
Contract work	\$1,530	—	\$410,278	\$132,234	\$70,464	\$600	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$49,269	—	\$2,107,229	\$133,390	\$167,595	\$14,228	\$66	\$24,945
Buildings	\$372	—	\$150,752	\$7,490	\$48,800	\$547	\$40	—
Machinery and equipment	\$46,897	—	\$1,956,477	\$125,900	\$118,795	\$13,681	\$26	\$24,945
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,902	788	11,303	521	20,026	10,771	1,924	5,646
Prime movers	4,436	480	11,303	391	20,026	10,741	1,117	2,960
Electric motors driven by purchased energy	1,464	308	—	130	—	30	707	2,686
Horsepower rating of electric motors driven by energy generated by reporting companies	502	—	840	11	1,239	86	—	886
Fuels consumed:								
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	—	—	—	—	—	—	970	1,006
Fuel oils (barrels of 42 gallons)	4,694	—	—	2,431	—	—	295,424	56,653
Gasoline and kerosene (gallons)	—	23,376	—	32,908	—	—	—	—
Natural gas (thousands of cubic feet)	1,741,094	9,255	2,690,989	165,214	4,871,669	2,067,692	—	—
Electric energy consumed (thousands of kw.-hrs.), total	6,008	248	294	273	2,925	1,271	979	784
Purchased	3,744	248	21	101	85	124	979	540
Generated by reporting companies	2,264	—	273	172	2,740	1,147	—	244

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

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN TEXAS, BY COUNTY: 1939—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Walker	Ward	Wheeler	Wichita	Williamson	Winkler	Wise	Young	All other ^a
Number of operating companies ¹	3	4	5	10	3	3	4	3	92
Number of mines and quarries	3	1	—	1	3	—	4	—	86
Number of preparation plants	3	4	5	12	1	3	1	3	85
Value of all products	\$235,394	\$967,740	\$441,183	\$630,775	\$59,599	\$455,218	\$207,575	\$124,171	\$24,317,219
Number of persons engaged, total	76	95	55	179	38	82	88	49	1,265
Wage earners (average for the year)	70	83	46	155	35	75	82	38	2,949
Salaries	5	12	9	23	3	9	3	10	332
Proprietors and firm members	1	—	—	1	—	—	3	1	24
Performing manual labor	—	—	—	—	—	—	2	—	8
Principal expenses designated below, total	\$116,446	\$366,712	\$215,956	\$727,157	\$35,615	\$255,498	\$124,582	\$102,997	\$8,646,365
Wages	\$63,355	\$144,967	\$68,107	\$250,439	\$18,005	\$117,317	\$53,415	\$65,401	\$3,273,221
Salaries	\$15,048	\$38,014	\$21,660	\$58,679	\$3,400	\$20,650	\$7,540	\$14,545	\$988,281
Supplies and materials	\$15,970	\$105,428	\$35,617	\$136,107	\$4,585	\$39,887	\$37,449	\$14,396	\$2,138,195
Fuel	\$7,656	\$37,267	\$88,607	\$79,901	\$2,032	\$61,784	\$10,065	\$10,150	\$1,136,860
Purchased electric energy	\$5,655	\$11,876	\$1,945	\$28,282	\$2,408	\$1,935	\$16,093	—	\$191,061
Contract work	\$8,562	\$29,760	—	\$181,749	\$6,185	\$13,925	—	\$470	\$915,745
Cost of buildings, machinery, and equipment erected or installed during year	\$2,436	\$163,934	\$139,325	\$790,570	\$4,589	\$36,574	\$14,074	\$55,391	\$1,481,231
Buildings	\$100	\$8,697	\$19,641	\$4,271	—	—	—	\$34,564	\$181,061
Machinery and equipment	\$2,336	\$155,237	\$119,684	\$696,299	\$4,589	\$36,574	\$14,074	\$21,027	\$1,310,210
Horsepower rating of prime movers and electric motors driven by purchased energy, total	945	12,898	2,428	16,107	261	2,400	2,493	2,905	89,071
Prime movers	700	12,122	2,598	15,547	179	2,400	1,833	2,905	78,545
Electric motors driven by purchased energy	245	776	80	760	82	—	660	—	11,128
Horsepower rating of electric motors driven by energy generated by reporting companies	—	958	—	157	—	651	200	4	10,382
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	—	479
Bituminous coal (tons of 2,000 pounds)	—	—	—	—	9	—	—	—	2,514
Fuel oils (barrels of 42 gallons)	—	—	—	19,506	615	—	581	—	46,265
Gasoline and kerosene (gallons)	3,000	—	—	6,000	6,480	—	70,409	—	1,664,115
Natural gas (thousands of cubic feet)	40,872	1,451,151	4,266,485	1,174,517	—	1,211,173	—	670,600	19,565,955
Electric energy consumed (thousands of kw.-hrs.), total	241	5,422	198	3,232	35	5,445	918	384	55,516
Purchased	241	1,598	162	1,935	35	63	914	8	12,296
Generated by reporting companies	—	3,824	36	1,297	—	5,382	4	376	21,082

¹ Companies with operations in more than 1 county are counted only once in the totals.^a Andrews, Angelina, Aransas, Archer, Atascosa, Austin, Bell, Bowie, Brazos, Brewster, Briscoe, Brooks, Calhoun, Callahan, Clay, Coleman, Colorado, Comal, Comanche, Crane, Culberson, Denton, Duval, Erath, Fisher, Floyd, Ford, Fort Bend, Galveston, Gillespie, Gonzales, Grayson, Guadalupe, Hardeman, Harrison, Hidalgo, Hood, Hopkins, Houston, Howard, Hudspeth, Jefferson, Jones, Liberty, Limestone, Lynn, Marion, Mason, Matagorda, Medina, Montague, Montgomery, Navarro, Nolan, Oldham, Palo Pinto, Panola, Parker, Polk, Presidio, Reagan, Refugio, Robertson, San Jacinto, San Patricio, Shackelford, Shelby, Smith, Stonewall, Tarrant, Terry, Titus, Trinity, Upton, Van Zandt, Victoria, Webb, Wharton, Wilbarger, Wilson, Wood, and Yoakum.

UTAH

Utah ranked thirteenth among the States in value of mineral products in 1939, and eighteenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 75 percent of that in 1929, and the number of wage earners 77 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 151 percent of that in 1919, and the number of wage earners 95 percent. The difference between totals for value of products for 1939 and 1929 is accounted for largely by decreases reported for the bituminous-coal, copper-ore, and lead-ore industries; between 1939 and 1919, by increases in reported value of products in the metallic-ores industries and a decline in the number of wage earners in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 150 percent of that in 1929, and 311 percent of that in 1919.

The copper-ore industry ranked first among the mineral industries in the State in 1939, accounting for more than half the total value of products reported, and for more than one-third the wage earners employed. The lead-ore industry accounted for 14 percent of the total value of products and 18 percent of the wage earners, and the bituminous-coal industry

for 11 percent of the value of products and 25 percent of the wage earners. Utah ranked second in value of products among all States in the copper-ore industry in the United States, accounting for nearly one-fourth of the recoverable copper produced by the industry during the year. The State ranked third in value of products in the lead-ore industry, accounting for 28 percent of the total value of products for the industry. The State also ranked third in value of products in the silver-ore industry, accounting for 13 percent of the total for that industry. The vanadium and uranium ore industry in the State reported 10 percent of the total value of products for the industry in the United States. Utah ranked first in value of products in the native asphalt and bitumens industry, reporting 36 percent of the total value of products for the industry. (See reports for these industries.)

Other mineral industries in the State were crude petroleum and natural gas, iron ore, lode gold, zinc ore, limestone, sandstone, common sand and gravel, fire clay, common clay and shale, bentonite, fluorspar, gypsum, natural sodium compounds, potash, rock salt, and sulfur. Mineral operations were located in 24 counties in 1939; principal statistics by county are shown in table 3, and for operations other than oil and gas wells, number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN UTAH: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, potash, and rock-salt industries)		1909 AND 1919 (Excluding the common clay and shale, common sand and gravel, natural sodium compounds, potash, and rock-salt industries)	
		1929	1929	1909 ¹	1919
Number of mines and quarries-----	183	175	135	165	154
Number of oil and gas wells producing at end of year-----	7			7	
Value of all products-----	\$62,791,114	\$62,362,169	\$55,068,029	\$62,564,827	\$41,212,641
Number of persons engaged, total-----	10,789	10,711	12,098	10,639	10,758
Wage earners (average for the year)-----	9,446	9,585	12,175	9,326	9,647
Salaried employees-----	1,278	1,266	693	1,255	856
Proprietors and firm members-----	65	60	29	56	55
Performing manual labor-----	45	40	(²)	36	15
Principal expenses designated below, total-----	\$27,669,705	\$27,710,836	\$43,674,950	\$27,582,251	\$29,569,345
Wages-----	\$15,158,733	\$15,078,056	\$21,264,248	\$15,023,909	\$17,196,652
Salaries-----	\$3,503,272	\$3,283,093	\$2,632,568	\$2,254,915	\$1,916,913
Supplies and materials-----	\$7,605,218	\$7,589,126	\$12,569,522	\$7,572,161	\$7,745,492
Fuel-----	\$560,213	\$536,511	\$409,921	\$328,287	\$364,480
Purchased electric energy-----	\$2,987,680	\$2,967,194	\$3,706,898	\$2,974,756	\$1,184,550
Contract work-----	\$256,589	\$236,876	\$2,051,905	\$228,115	\$491,178
Cost of machinery and equipment installed during year-----	\$1,474,670	\$1,418,619	\$4,065,429	\$1,361,974	(²)
Horsepower rating of power equipment, total-----	272,501	271,380	180,321	266,175	86,131
Per wage earner-----	28.8	28.9	14.8	28.7	8.7
Prime movers-----	15,737	14,821	5,609	12,964	31,085
Electric motors driven by purchased energy-----	256,564	256,559	174,712	255,209	35,046
Electric energy consumed (thousands of kw.-hrs.), total-----	427,338	427,208	466,555	426,771	(²)
Purchased-----	426,891	426,667	468,894	426,251	(²)
Generated by reporting companies-----	647	541	661	520	(²)

¹Includes 5 limestone quarries, with products valued at \$119,530, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

²Not available.

³Includes 515 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN UTAH, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS							
		Total	Bituminous coal	Metallic ores					
				Lode gold	Silver ore	Lead ore	Zinc ore	Vanadium and uranium ore	Iron ore and copper ore
Number of operating companies ¹	175	150	50	27	18	15	5	5	4
Number of mines and quarries	191	165	51	50	22	22	2	5	4
Number of oil and gas wells producing on December 31, 1939	7	7							
Number of preparation plants	58	58	1	2		6	1	2	2
Value of all products ²	\$65,056,844	\$62,791,114	\$7,025,257	\$2,286,964	\$2,508,257	\$6,789,616	\$1,180,151	\$145,894	\$59,686,195
Number of persons engaged, total	10,899	^a 10,789	2,618	455	1,052	1,988	520	45	5,795
Wage earners (average for the year)	9,529	9,446	2,328	388	957	1,691	209	59	5,896
Number receiving pay during pay-roll period ending nearest the 15th of:									
January	9,358	9,282	2,648	546	890	1,410	72	25	5,341
February	9,089	9,015	2,685	548	860	1,422	66	25	5,280
March	9,020	8,956	2,519	551	864	1,472	67	46	5,263
April	8,707	8,656	1,972	562	926	1,490	72	50	5,317
May	8,770	8,696	1,687	571	917	1,675	220	56	5,289
June	8,878	8,796	1,481	590	928	1,755	252	59	5,413
July	9,134	9,056	1,697	417	914	1,738	234	52	5,464
August	9,459	9,382	1,866	406	984	1,850	244	45	5,467
September	10,297	10,206	2,546	406	984	1,840	303	41	5,862
October	10,450	10,362	2,831	406	989	1,830	321	28	5,450
November	10,571	10,471	2,890	414	984	1,864	356	24	5,486
December	10,650	10,521	2,865	455	998	1,949	354	28	5,574
Salaried employees	1,538	^a 1,278	260	61	94	291	111	4	596
Proprietors and firm members	67	65	50	6	1	6		2	1
Performing manual labor	47	45	25	6		5			
Principal expenses designated below, total	^b \$29,100,596	^a \$27,869,705	\$5,146,415	\$1,195,095	\$2,041,654	\$4,907,488	\$905,071	\$88,875	\$12,632,961
Wages	\$18,273,565	\$15,188,735	\$2,508,155	\$465,191	\$1,218,776	\$2,579,921	\$321,522	\$55,585	\$4,897,510
Salaries	\$2,540,086	^b \$2,538,272	\$645,829	\$106,594	\$234,454	\$659,772	\$274,949	\$6,021	\$1,076,989
Supplies and materials	\$7,550,408	\$7,608,218	\$864,754	\$410,806	\$422,763	\$1,146,560	\$171,637	\$5,961	\$4,597,497
Fuel	\$574,375	\$560,213	\$18,694	\$26,732	\$6,766	\$37,165	\$31,856	\$5,850	\$37,571
Purchased electric energy	\$5,000,559	\$2,987,880	\$213,285	\$99,658	\$155,960	\$384,535	\$103,354		\$1,895,877
Contract work	^c \$261,675	\$266,589		\$64,011	\$1,115	\$99,735	\$1,775	\$14,658	\$29,907
Cost of buildings, machinery, and equipment erected or installed during year	\$2,027,468	\$2,026,711	\$950,584	\$74,226	\$74,377	\$129,200	\$25,958	\$27,000	\$515,723
Buildings	\$552,119	\$552,041	\$157,150	\$0,256	\$0,198	\$28,002	\$417	\$25,000	\$259,586
Machinery and equipment, total	\$1,475,349	\$1,474,670	\$793,434	\$64,970	\$71,179	\$101,198	\$25,541	\$2,000	\$256,137
Purchased in new condition	\$1,344,255	\$1,345,598	\$728,656	\$46,059	\$70,955	\$76,660	\$25,541	\$1,500	\$237,630
Purchased in used condition	\$131,116	\$131,072	\$64,778	\$18,911	\$26	\$24,538		\$500	\$18,547
Number of man-hours worked by wage earners	18,466,492	18,294,444	5,512,728	787,140	1,857,372	3,429,109	421,776	98,432	7,518,152
Average hourly earning of wage earners	\$0.72	\$0.72	\$0.94	\$0.59	\$0.66	\$0.69	\$0.78	\$0.54	\$0.87
Horsepower rating of prime movers and electric motors driven by purchased energy, total	275,080	272,301	40,190	7,208	7,866	28,549	4,867	2,267	168,289
Per wage earner	28.9	28.8	17.3	16.6	8.4	16.8	25.3	59.1	49.6
Prime movers	17,502	15,737	2,646	1,850	251	1,539	538	2,267	585
Electric motors driven by purchased energy	257,728	256,564	57,544	5,378	7,615	26,810	4,329		167,733
Horsepower rating of electric motors driven by energy generated by reporting companies	1,250	1,250	72	761		22			
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	^d 299	299		2		36			
Bituminous coal (tons of 2,000 pounds)	^d 75,562	75,562	7,262	2,951	782	11,857	6,459	94	45,432
Fuel oils (barrels of 42 gallons)	^d 31,255	31,255	213	907	491	1,109	121	1,500	21,869
Gasoline and kerosene (gallons)	^d 558,369	546,544	21,904	64,561	15,927	28,983	11,557	6,070	140,101
Natural gas (thousands of cubic feet)	^d 949,117	949,117				6,850			804,075
Electric energy consumed (thousands of kw.-hrs.), total	^d 427,415	427,538	24,028	7,952	16,350	40,717	9,977		527,576
Purchased	^d 426,771	426,691	23,964	7,524	15,350	40,717	9,977		527,576
Generated by reporting companies	^d 647	647	64	428					

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

² Represents operations of 2 companies in the crude-petroleum and natural-gas industry, 3 lead-ore mines, 1 silver-ore mine, and 4 major nonferrous-ore mines not classified by industry.

³ 1 mine and 1 preparation plant in the bentonite industry is included in "All other" to avoid disclosure of confidential information.

⁴ Represents operations of 2 companies in the crude-petroleum and natural-gas industry, 1 crushed and broken sandstone quarry, 1 mine and 1 preparation plant in the bentonite industry, 1 fluorspar mine, 1 mine and 1 preparation plant in the natural sodium compounds industry, 2 mines and 1 preparation plant in the potash industry, 2 mines and 1 preparation plant in the rock-salt industry, and 1 mine and 1 preparation plant in the sulfur industry.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN UTAH, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS--Continued							Contract- service operations ¹	Nonpro- ducing opera- tions ²
	Crushed and broken limestone	Common sand and gravel	Clay and shale ³		Gypsum	Native asphalt and bitumens	All other ⁴		
			Pire clay	Common clay and shale					
Number of operating companies ⁵ -----	10	10	3	3	4	9	11	4	10
Number of mines and quarries-----	10	9	4	4	4	9	9	-----	8
Number of oil and gas wells producing on December 31, 1939-----	-----	-----	-----	-----	-----	-----	7	-----	-----
Number of preparation plants-----	6	9	-----	-----	1	2	5	-----	-----
Value of all products ⁷ -----	\$214,959	\$208,624	\$50,258	\$55,574	\$74,096	\$1,079,951	\$475,528	\$245,730	-----
Number of persons engaged, total-----	82	76	19	17	41	183	112	66	44
Wage earners (average for the year)-----	75	58	17	17	36	185	90	56	27
Number receiving pay during pay-roll period ending nearest the 15th of:									
January-----	42	34	10	13	34	154	61	52	24
February-----	56	39	13	13	34	143	61	54	22
March-----	54	41	15	11	34	150	61	49	15
April-----	63	58	22	19	39	170	76	52	19
May-----	79	81	20	19	39	182	81	49	25
June-----	106	80	15	20	38	194	86	55	28
July-----	98	59	21	21	34	193	94	50	28
August-----	86	75	18	22	34	199	79	52	35
September-----	92	76	19	15	38	174	80	56	35
October-----	95	59	19	19	36	169	100	57	31
November-----	85	54	17	19	36	150	116	65	35
December-----	53	46	12	19	36	151	108	78	31
Salaried employees-----	3	14	-----	-----	4	16	16	9	16
Proprietors and firm members-----	4	4	2	-----	1	2	6	1	1
Performing manual labor-----	3	4	-----	-----	-----	-----	6	1	1
Principal expenses designated below, total-----	\$146,618	\$134,577	\$19,622	\$24,762	\$50,126	\$568,706	\$207,945	⁹ \$154,947	\$76,044
Wages-----	\$90,765	\$58,762	\$17,612	\$20,467	\$29,128	\$204,004	\$108,587	\$77,611	\$27,221
Salaries-----	\$6,170	\$24,182	-----	-----	\$10,220	\$41,622	\$32,170	\$23,522	\$13,442
Supplies and materials-----	\$36,361	\$16,437	\$1,265	\$5,612	\$6,266	\$102,651	\$16,567	\$31,545	\$15,647
Fuel-----	\$12,295	\$7,758	\$467	\$703	\$2,512	\$14,198	\$27,706	\$11,917	\$2,245
Purchased electric energy-----	\$10,430	\$12,438	-----	-----	-----	\$5,211	\$8,252	\$10,454	\$2,406
Contract work-----	\$597	\$15,000	\$80	-----	-----	-----	\$19,715	(11)	\$5,094
Cost of buildings, machinery, and equipment erected or installed during year-----	\$25,219	\$50,035	\$878	\$575	\$7,382	\$35,294	\$154,480	-----	\$777
Buildings-----	\$200	\$50,782	\$40	\$575	\$6,268	\$21,478	\$10,581	-----	\$78
Machinery and equipment, total-----	\$25,019	\$19,253	\$838	-----	\$1,114	\$13,816	\$124,149	-----	\$699
Purchased in new condition-----	\$20,734	\$9,555	\$558	-----	\$447	\$10,954	\$112,226	-----	\$660
Purchased in used condition-----	\$2,285	\$9,700	\$100	-----	\$665	\$664	\$11,923	-----	\$39
Number of man-hours worked by wage earners-----	145,668	122,292	30,486	32,556	63,615	115,115	162,205	113,594	58,694
Average hourly earning of wage earners-----	\$0.56	\$0.46	\$0.58	\$0.63	\$0.46	\$0.65	\$0.64	\$0.68	\$0.65
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	5,951	2,730	168	211	443	1,748	2,020	2,589	540
Per wage earner-----	79.3	47.1	9.9	12.4	12.2	13.6	22.4	42.7	12.6
Prime movers-----	1,489	1,450	168	211	440	852	1,510	1,565	210
Electric motors driven by purchased energy-----	4,462	1,300	-----	-----	-----	896	510	1,024	130
Horsepower rating of electric motors driven by energy generated by reporting companies-----	-----	-----	-----	25	53	-----	329	-----	-----
Fuels consumed:									
Anthracite (tons of 2,000 pounds)-----	11	-----	-----	-----	-----	250	-----	(11)	-----
Bituminous coal (tons of 2,000 pounds)-----	9	-----	-----	-----	-----	176	590	(11)	-----
Fuel oils (barrels of 42 gallons)-----	537	127	-----	-----	160	641	3,429	(11)	-----
Gasoline and kerosene (gallons)-----	78,765	39,395	2,595	4,328	8,950	64,688	58,915	(11)	11,825
Natural gas (thousands of cubic feet)-----	-----	-----	-----	-----	-----	-----	58,194	(11)	-----
Electric energy consumed (thousands of kw.-hrs.), total-----	602	416	-----	2	11	567	508	(11)	60
Purchased-----	602	416	-----	-----	11	567	508	(11)	60
Generated by reporting companies-----	-----	-----	-----	2	-----	17	125	(11)	-----

⁵ Represents 2 iron-ore mines, and 2 mines and 2 mills in the copper-ore industry.⁶ Companies with operations in more than 1 industry are counted only once in the totals.⁷ Includes amounts received or due for contract services performed during the year.⁸ Includes statistics for central-office employees in the tungsten-ore industry.⁹ Contract-service operators were not asked to report expenditures for contract work.¹⁰ Excludes statistics for contract-service operations.¹¹ Not available.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN UTAH, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Beaver	Carbon	Duchesne	Emery	Grand	Iron	Juab	Plute
Number of operating companies ¹	160	6	27	4	15	3	5	15	4
Number of mines and quarries	183	6	28	5	15	3	5	19	4
Number of oil and gas wells producing on December 31, 1939	7								
Number of preparation plants	38	1	1	2	1			1	
Value of all products	\$22,791,114	\$165,589	\$5,700,661	\$195,596	\$1,243,617	\$114,723	\$783,250	\$1,181,666	\$56,406
Number of persons engaged, total	10,789	75	2,025	45	376	77	51	291	28
Wage earners (average for the year)	9,446	67	1,911	39	344	70	38	267	26
Salaried employees	1,278	7	106	5	22	4	10	22	1
Proprietors and firm members	65	1	6	1	10	5	3	2	1
Performing manual labor	45	1	5		10		2	2	1
Principal expenses designated below, total	\$27,869,705	\$100,239	\$4,059,512	\$74,045	\$765,889	\$106,746	\$112,679	\$522,910	\$50,969
Wages	\$15,159,733	\$58,560	\$2,761,506	\$42,285	\$479,443	\$71,573	\$46,439	\$321,505	\$19,998
Salaries	\$2,308,272	\$10,858	\$217,662	\$9,875	\$46,924	\$10,815	\$9,768	\$40,874	\$2,080
Supplies and materials	\$7,603,218	\$8,649	\$707,339	\$18,456	\$166,236	\$6,782	\$37,829	\$69,856	\$7,876
Fuel	\$360,213	\$2,673	\$5,759	\$2,784	\$9,069	\$501	\$3,857	\$12,815	\$519
Purchased electric energy	\$2,987,890	\$6,559	\$247,246	\$545	\$54,217	\$4,417	\$14,786	\$28,695	
Contract work	\$256,589	\$2,940				\$14,658		\$29,567	\$1,337
Cost of buildings, machinery, and equipment erected or installed during year	\$2,026,711	\$825	\$794,354	\$2,962	\$118,855	\$7,449	\$15,745	\$23,543	
Buildings	\$552,041	\$499	\$143,004	\$288	\$4,241		\$14,595	\$7,696	
Machinery and equipment	\$1,474,670	\$324	\$651,350	\$2,676	\$114,615	\$7,449	\$1,150	\$15,447	
Horsepower rating of prime movers and electric motors driven by purchased energy, total	272,501	996	31,439	722	8,285	2,627	2,065	3,175	200
Prime movers	15,737	236	820	482	1,610	2,186	733	796	200
Electric motors driven by purchased energy	256,564	700	30,619	240	6,675	441	1,550	2,379	
Horsepower rating of electric motors driven by energy generated by reporting companies	1,250		55		57			61	750
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	299			250					2
Bituminous coal (tons of 2,000 pounds)	75,562	72	5,356	48	3,649	57		2,772	
Fuel oils (barrels of 42 gallons)	31,255	295	89	841	49		560	561	
Gasoline and kerosene (gallons)	546,544	5,355	5,753	5,905	10,785	2,000	15,152	2,231	2,645
Natural gas (thousands of cubic feet)	849,117								
Electric energy consumed (thousands of kw.-hrs.), total	427,558	505	18,166	22	5,859	285	614	1,698	408
Purchased	426,691	505	18,155	21	5,806	285	614	1,662	
Generated by reporting companies	647		11	1	53			56	408

ITEM	Salt Lake	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Weber	All other ²
Number of operating companies ¹	16	6	10	22	5	15	4	3	11
Number of mines and quarries	22	6	10	25	6	16	5	5	9
Number of oil and gas wells producing on December 31, 1939									
Number of preparation plants	9	2	1	9		5		2	7
Value of all products	\$44,068,969	\$106,832	\$1,482,142	\$5,370,158	\$801,531	\$1,805,476	\$1,177,794	\$51,608	\$459,502
Number of persons engaged, total	5,375	40	406	719	108	555	485	55	86
Wage earners (average for the year)	4,585	32	390	581	97	506	450	17	81
Salaried employees	841	1	12	129	9	46	33	17	13
Proprietors and firm members	1	7	6	9	2	6		1	4
Performing manual labor	1	6	4	6	1	5		1	2
Principal expenses designated below, total	\$16,549,542	\$45,634	\$658,377	\$2,307,566	\$217,613	\$1,062,619	\$1,047,518	\$55,214	\$170,865
Wages	\$8,464,897	\$27,696	\$356,557	\$620,665	\$121,592	\$651,134	\$615,169	\$17,010	\$95,918
Salaries	\$2,265,816	\$1,815	\$46,480	\$69,068	\$24,152	\$89,313	\$62,584	\$30,025	\$18,406
Supplies and materials	\$5,060,479	\$6,094	\$179,147	\$764,495	\$59,858	\$229,094	\$229,490	\$5,860	\$28,690
Fuel	\$276,813	\$5,484	\$10,282	\$76,911	\$11,448	\$14,716	\$7,463	\$5,066	\$18,011
Purchased electric energy	\$2,106,065	\$5,243	\$85,911	\$252,626	\$983	\$77,972	\$104,762	\$1,233	\$6,189
Contract work	\$77,472			\$122,586		\$590			\$7,696
Cost of buildings, machinery, and equipment erected or installed during year	\$650,775		\$51,086	\$150,264	\$25,667	\$49,514	\$50,199	\$1,805	\$60,889
Buildings	\$301,170		\$6,856	\$26,274	\$16,725	\$1,462	\$2,510	\$1,538	\$25,000
Machinery and equipment	\$349,605		\$44,232	\$123,990	\$9,142	\$47,832	\$57,689	\$500	\$35,889
Horsepower rating of prime movers and electric motors driven by purchased energy, total	162,764	752	8,541	13,343	511	5,893	4,788	170	6,032
Prime movers	2,118	482	583	2,424	391	903	40	110	1,765
Electric motors driven by purchased energy	160,646	270	8,158	10,919	120	4,990	4,748	60	4,849
Horsepower rating of electric motors driven by energy generated by reporting companies	275		25	67					
Fuels consumed:									
Anthracite (tons of 2,000 pounds)	5		33	11					138
Bituminous coal (tons of 2,000 pounds)	54,062	510	1,712	6,821	128	950	1,112		1,890
Fuel oils (barrels of 42 gallons)	22,295	36	247	5,669	4	853	561	115	61,029
Gasoline and kerosene (gallons)	147,157	18,419	11,616	151,540	59,204	44,250	11,242	14,279	31,194
Natural gas (thousands of cubic feet)	814,609			3,514					
Electric energy consumed (thousands of kw.-hrs.), total	549,790	260	8,659	23,165	55	7,251	10,327	34	408
Purchased	549,789	260	8,657	23,061	59	7,251	10,327	34	
Generated by reporting companies	21		2	104	16				408

¹ Companies with operations in more than 1 county are counted only once in the totals.² Box Elder, Cache, Daggett, Davis, Morgan, San Juan, Garfield, and Washington.

VERMONT

Vermont ranked thirty-sixth among the States in value of products of mineral industries in 1939, and thirty-seventh in number of wage earners employed. (See table 2, General Summary.) The value of products for the State in 1939 was 52 percent of that in 1929 and the number of wage earners 50 percent. (See table 1.) Compared with 1919, the 1939 value of products was 63 percent of that in 1919 and the number of wage earners 54 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 80 percent of that in 1929, and 114 percent of that in 1919.

The rough-dimension granite industry ranked first among the mineral industries in the State in 1939, accounting for 38 percent of the total value of products and 37 percent of the wage earners employed. (See table 2.) The State ranked first in value of products among all States in the rough-dimension granite industry, and reported 35 percent of the value of all

products and 12 percent of the total tonnage of granite produced by the industry in the United States. The State also ranked first in value of products in the crushed and broken slate industry and in the asbestos industry. Vermont ranked second in value of products in the rough-dimension marble and rough-dimension slate industries in the United States, accounting for 26 percent and 29 percent, respectively, of the total value of products for these industries. (See reports for these industries.)

Other mineral industries in the State were crushed and broken limestone, crushed and broken granite, crushed and broken sandstone, common sand and gravel, mica, and talc and soapstone. Mineral operations were located in 12 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN VERMONT: 1939, 1929, AND 1919

(For producing operations only)

ITEM	ALL INDUSTRIES		
	1939 ¹	1929	1919 ²
Number of mines and quarries-----	77	129	106
Value of all products-----	\$5,547,705	\$10,275,907	\$8,555,030
Number of persons engaged, total-----	1,735	3,466	3,259
Wage earners (average for the year)-----	1,574	3,154	2,956
Salaried employees-----	121	256	243
Proprietors and firm members-----	40	74	60
Performing manual labor-----	23	(3)	18
Principal expenses designated below, total-----	\$3,250,021	\$6,294,290	\$5,280,128
Wages-----	\$1,719,582	\$4,155,100	\$5,041,551
Salaries-----	\$297,580	\$785,428	\$446,733
Supplies and materials-----	\$842,337	\$712,097	\$1,272,796
Fuel-----	\$81,718	\$135,004	\$220,276
Purchased electric energy-----	\$275,099	\$464,677	\$206,122
Contract work-----	\$6,105	\$27,974	\$81,750
Cost of machinery and equipment installed during year-----	\$92,151	\$349,213	(3)
Horsepower rating of power equipment, total-----	32,120	39,906	28,119
Per wage earner-----	20.4	12.7	9.6
Prime movers-----	6,086	4,996	8,990
Electric motors driven by purchased energy-----	26,034	34,911	4 19,129
Electric energy consumed (thousands of kw.-hrs.), total-----	19,741	21,581	(3)
Purchased-----	16,689	21,572	(3)
Generated by reporting companies-----	1,052	15	(3)

¹Includes 7 limestone quarries, with products valued at \$220,784, operated in conjunction with lime plants. Such quarries were not included in the census of mineral industries for 1919.

²Excludes the sand and gravel industries which were not included in the census of mineral industries for 1919. In 1939, 3 mines and 3 preparation plants were reported in the common sand and gravel industry.

³Not available.

⁴Includes 20 horsepower for equipment operated by purchased power other than electric.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VERMONT, BY INDUSTRY: 1939

(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	Total	STONE					Talc and soapstone	Common sand and gravel, asbestos, and mica
		Crushed and broken		Rough dimension				
		Limestone	Other stone ²	Granite	Slate	Marble		
Number of operating companies	60	9	4	9	30	3	3	
Number of mines and quarries	77	10	4	10	34	10	4	
Number of preparation plants	21	8	3	1			4	
Value of all products ⁴	\$3,347,705	\$262,901	\$953,701	\$2,030,773	\$582,776	\$661,845	\$377,649	\$478,080
Number of persons engaged, total	1,755	98	137	616	346	285	115	120
Wage earners (average for the year)	1,574	84	117	584	287	232	93	127
Number receiving pay during pay-roll period ending nearest the 15th of:								
January	1,248	50	108	507	271	199	76	37
February	1,272	47	111	555	232	207	75	45
March	1,350	64	137	568	244	205	83	49
April	1,456	87	128	584	273	225	85	74
May	1,682	114	112	611	300	279	118	123
June	1,786	133	130	596	307	309	118	136
July	1,744	96	114	611	325	317	87	134
August	1,761	96	113	620	333	311	92	137
September	1,687	86	112	589	278	306	88	126
October	1,715	87	115	596	291	328	97	129
November	1,700	73	120	601	291	342	101	172
December	1,530	73	107	567	295	351	101	38
Salaried employees	121	11	19	34	24	2	22	9
Proprietors and firm members	40	3	1		35	1		
Performing manual labor	25		1		21	1		
Principal expenses designated below, total	\$3,236,021	\$110,935	\$729,482	\$1,160,058	\$372,365	\$320,158	\$232,014	\$306,111
Wages	\$1,719,582	\$72,760	\$140,535	\$747,394	\$242,347	\$282,382	\$101,013	\$132,901
Salaries	\$297,380	\$12,002	\$44,640	\$115,899	\$36,319	\$2,880	\$66,430	\$19,230
Supplies and materials	\$842,337	\$10,796	\$481,428	\$165,047	\$49,117	\$20,597	\$30,351	\$24,998
Fuel	\$91,718	\$2,814	\$13,926	\$28,491	\$7,859	\$4,864	\$8,314	\$24,470
Purchased electric energy	\$275,099	\$11,691	\$48,550	\$100,421	\$36,741	\$9,455	\$25,906	\$40,035
Contract work	\$6,105	\$489	\$353	\$1,806				\$5,477
Cost of buildings, machinery, and equipment erected or installed during year	\$128,756	\$7,000	\$7,330	\$35,553	\$14,891	\$6,885	\$38,567	\$18,720
Buildings	\$36,605	\$2,400			\$2,683		\$24,475	\$7,047
Machinery and equipment, total	\$92,151	\$4,600	\$7,330	\$35,553	\$12,208	\$6,885	\$13,892	\$11,673
Purchased in new condition	\$83,441	\$2,300	\$7,330	\$34,908	\$10,208	\$3,385	\$15,792	\$11,523
Purchased in used condition	\$8,710	\$2,300		\$650	\$2,000	\$3,500	\$100	\$100
Number of man-hours worked by wage earners	3,147,639	196,123	221,412	1,028,205	602,378	598,557	205,156	297,808
Average hourly earning of wage earners	\$0.85	\$0.37	\$0.63	\$0.73	\$0.40	\$0.47	\$0.49	\$0.46
Horsepower rating of prime movers and electric motors driven by purchased energy, total	32,120	1,659	4,898	15,424	4,579	1,719	1,594	4,247
Per wage earner	20.4	19.8	41.9	23.0	16.0	6.1	17.1	33.4
Prime movers	6,086	224	688	2,608	1,010	205	201	1,340
Electric motors driven by purchased energy	26,034	1,435	4,200	10,816	3,569	1,514	1,393	3,107
Horsepower rating of electric motors driven by energy generated by reporting companies	5,798	608			200	4,709		271
Fuels consumed: ⁵								
Anthracite (tons of 2,000 pounds)	447		95	72	18	262		
Bituminous coal (tons of 2,000 pounds)	6,969	40	1,410	4,916	585	50	7	
Fuel oils (barrels of 42 gallons)	6,316	105	16	2,480	78	723	640	4,284
Gasoline and kerosene (gallons)	142,517	18,050	21,475	4,904	17,308		1,941	76,829
Electric energy consumed (thousands of kw.-hrs.), total	19,741	591	3,639	5,627	1,238	1,418	2,606	4,592
Purchased	18,689	562	3,639	5,627	1,268	465	2,606	4,592
Generated by reporting companies	1,052	29			20	953		10

¹ Represents 5 mines and 3 preparation plants in the common sand and gravel industry, 1 mine and 1 mill in the asbestos industry, and 1 mine and 1 preparation plant in the mica industry.² Represents 2 quarries and 1 crushing plant in the crushed and broken granite industry, 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, and 1 quarry and 1 crushing plant in the crushed and broken slate industry.³ Companies with operations in more than 1 industry are counted only once in the totals.⁴ Includes amounts received or due for contract services performed during the year.⁵ No natural gas was reported consumed.

VERMONT

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VERMONT, BY COUNTY: 1939
(For producing operations only; no contract-service operations were classified in the State and no nonproducing operations were reported)

ITEM	State	Addison	Franklin	Rutland	Washington	Windsor	All other ¹
Number of operating companies ²	60	3	3	35	6	4	12
Number of mines and quarries	77	3	3	46	9	4	12
Number of preparation plants	21	3	1	5	2	3	7
Value of all products	\$5,347,705	\$96,797	\$54,195	\$2,198,905	\$1,857,096	\$80,690	\$1,060,022
Number of persons engaged, total	1,735	26	31	764	546	27	541
Wage earners (average for the year)	1,574	23	25	661	513	22	310
Salaried employees	121	3	4	48	53	3	30
Proprietors and firm members	40	—	2	35	—	2	1
Performing manual labor	25	—	—	21	—	1	1
Principal expenses designated below, total	\$5,230,021	\$31,759	\$29,813	\$1,427,299	\$1,043,068	\$34,912	\$665,190
Wages	\$1,719,582	\$21,237	\$17,067	\$663,983	\$654,037	\$19,920	\$344,118
Salaries	\$297,380	\$2,507	\$6,711	\$69,727	\$114,151	\$4,737	\$79,547
Supplies and materials	\$942,537	\$2,681	\$3,120	\$55,744	\$149,045	\$6,027	\$125,716
Fuel	\$91,718	—	\$200	\$28,331	\$23,298	\$1,903	\$34,966
Purchased electric energy	\$273,099	\$5,314	\$2,715	\$69,494	\$97,707	\$2,956	\$75,015
Contract work	\$6,105	—	—	—	\$1,806	\$469	\$5,880
Cost of buildings, machinery, and equipment erected or installed during year	\$128,756	—	\$7,000	\$17,410	\$35,006	\$5,998	\$65,452
Buildings	\$36,805	—	\$2,400	\$2,693	—	\$62	\$31,460
Machinery and equipment	\$92,151	—	\$4,600	\$14,717	\$33,006	\$5,926	\$33,992
Horsepower rating of prime movers and electric motors driven by purchased energy, total	32,120	668	550	10,134	12,571	307	7,290
Prime movers	6,066	—	75	1,958	2,284	634	1,235
Electric motors driven by purchased energy	26,034	668	475	8,276	10,287	273	6,055
Horsepower rating of electric motors driven by energy generated by reporting companies	5,768	—	50	5,285	—	453	—
Fuels consumed: ³							
Anthracite (tons of 2,000 pounds)	447	—	—	364	61	—	22
Bituminous coal (tons of 2,000 pounds)	6,966	—	40	1,909	4,540	—	699
Fuel oils (barrels of 42 gallons)	8,316	—	—	780	2,020	474	5,062
Gasoline and kerosene (gallons)	142,517	—	—	64,101	4,904	2,256	71,274
Electric energy consumed (thousands of kw.-hrs.), total	19,741	272	126	6,200	5,640	140	7,363
Purchased	18,669	272	119	5,214	5,640	21	7,333
Generated by reporting companies	1,052	—	7	986	—	59	—

¹ Bennington, Caledonia, Chittenden, Grand Isle, Lamoille, Orange, and Windham.

² Companies with operations in more than 1 county are counted only once in the totals.

³ No natural gas was reported consumed.

VIRGINIA

Virginia ranked twenty-second among the States in value of products of mineral industries in 1939, and tenth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 116 percent of that for 1929, and the number of wage earners 124 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 112 percent of that in 1919, and the number of wage earners 127 percent. Differences between the totals for 1939 and the two previous census years are accounted for principally by increases in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 129 percent of that in 1929 and 239 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State, accounting for 73 percent of the total value of products and 79 percent of the total number of wage earners. (See table 2.) The crushed and broken limestone

industry ranked second with 10 percent of the total value of products, and 8 percent of the wage earners. The State accounted for 3 percent of the total value of products of the bituminous-coal industry and 4 percent of the total for the crushed and broken limestone industry. Virginia ranked first in value of products among all States in the titanium-ore and pyrites industries, second in the talc and soapstone industry, and third in the rough-dimension slate and feldspar industries. (See reports for these industries.)

Other mineral industries in the State were iron ore; lode gold; zinc ore; manganese ore; limestone (rough dimension); granite; basalt; sandstone; slate (crushed and broken); marble; miscellaneous stone; common sand and gravel; glass sand; foundry sand; kaolin and ball clay; common clay and shale; barite; gypsum; kyanite, andalusite, and dumortierite; and mica. Mineral operations were located in 55 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN VIRGINIA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and sand and gravel industries)	
		1929	1929	1939 ¹	1919
Number of mines and quarries-----	255	256	208	221	216
Value of all products-----	\$54,455,841	\$54,276,096	\$29,540,524	\$52,755,905	\$29,568,440
Number of persons engaged, total-----	20,122	20,037	16,081	19,592	15,887
Wage earners (average for the year)-----	16,998	16,904	15,262	16,508	14,647
Salaried employees-----	1,041	1,041	770	994	819
Proprietors and firm members-----	98	82	59	90	71
Performing manual labor-----	51	51	(*)	50	19
Principal expenses designated below, total-----	\$26,876,574	\$26,767,791	\$22,276,966	\$26,056,397	\$24,116,526
Wages-----	\$18,965,685	\$18,806,582	\$14,637,569	\$18,462,863	\$18,106,549
Salaries-----	\$2,027,035	\$2,037,035	\$1,666,053	\$1,942,090	\$1,690,162
Supplies and materials-----	\$4,185,600	\$4,178,544	\$3,692,399	\$4,015,462	\$4,760,370
Fuel-----	\$424,365	\$411,067	\$302,227	\$292,589	\$740,096
Purchased electric energy-----	\$1,524,110	\$1,515,915	\$1,561,659	\$1,285,623	\$476,796
Contract work-----	\$43,779	\$38,860	\$17,069	\$38,860	\$340,851
Cost of machinery and equipment installed during year-----	\$1,176,527	\$1,159,527	\$1,143,027	\$1,003,695	(*)
Horsepower rating of power equipment, total-----	145,791	144,013	111,921	138,511	57,880
Per wage earner-----	7.7	7.6	7.3	7.5	4.0
Prime movers-----	33,090	31,849	15,435	28,244	25,641
Electric motors driven by purchased energy-----	112,701	112,164	96,486	110,267	54,239
Electric energy consumed (thousands of kw.-hrs.), total-----	104,190	103,944	101,524	101,506	(*)
Purchased-----	97,907	97,561	99,428	95,568	(*)
Generated by reporting companies-----	6,583	6,383	2,096	5,938	(*)

¹ Includes 22 limestone quarries, with products valued at \$1,063,640, operated in conjunction with cement and lime plants. Such quarries were not included in the census of mineral industries for 1919.

² Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VIRGINIA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS						
		Total	Bituminous coal	Metallic ores		Stones		
				Manganese ore	Other ¹	Crushed and broken		
						Limestone	Granite	Other ²
Number of operating companies ³ -----	223	221	91	3	7	59	4	5
Number of mines and quarries-----	256	253	112	5	7	61	6	7
Number of preparation plants-----	113	113	15	3	5	51	8	7
Value of all products ⁴ -----	\$34,436,700	\$34,436,641	\$24,993,685	\$47,859	\$1,634,606	\$3,424,388	\$533,469	\$282,642
Number of persons engaged, total-----	20,155	20,122	15,856	39	681	1,999	206	96
Wage earners (average for the year)-----	19,010	18,988	15,025	34	632	1,561	185	86
Number receiving pay during pay-roll period ending nearest the 15th of:								
January-----	20,175	20,152	16,629	2	593	1,296	159	51
February-----	19,856	19,815	16,556	3	610	1,372	97	44
March-----	19,707	19,683	16,666	19	613	1,555	214	77
April-----	7,596	7,584	3,546	25	622	1,339	344	113
May-----	18,456	18,431	14,304	23	623	1,721	226	107
June-----	18,973	18,950	14,621	47	635	1,682	239	112
July-----	18,242	18,219	15,062	45	643	1,671	223	108
August-----	19,609	19,596	15,345	51	646	1,743	241	110
September-----	20,431	20,407	16,116	54	649	1,733	219	106
October-----	21,744	21,719	17,622	50	656	1,600	165	95
November-----	21,572	21,551	17,693	47	646	1,494	193	14
December-----	20,681	20,650	16,396	47	639	1,396	183	52
Salaried employees-----	1,051	1,041	717	2	47	108	13	9
Proprietors and firm members-----	94	93	54	3	2	20	2	1
Performing manual labor-----	51	51	34	2	2	7		
Principal expenses designated below, total-----	\$26,925,584	\$26,878,574	\$20,784,824	\$26,706	\$1,142,301	\$2,286,476	\$410,510	\$132,246
Wages-----	\$18,868,553	\$18,863,085	\$15,791,303	\$16,782	\$633,217	\$1,151,085	\$142,096	\$59,564
Salaries-----	\$2,054,171	\$2,037,035	\$1,565,086	\$1,800	\$159,586	\$303,506	\$27,629	\$20,691
Supplies and materials-----	\$4,186,727	\$4,185,600	\$3,737,862	\$6,603	\$211,792	\$621,582	\$176,842	\$26,551
Fuel-----	\$424,515	\$424,565	\$46,421	\$1,524	\$14,307	\$111,933	\$14,328	\$9,216
Purchased electric energy-----	\$1,327,575	\$1,324,110	\$832,621		\$142,441	\$196,141	\$46,741	\$15,416
Contract work-----	\$43,843	\$43,779	\$21,461		\$319	\$12,532		
Cost of buildings, machinery, and equipment erected or installed during year-----	\$1,371,411	\$1,371,411	\$652,717	\$2,300	\$105,015	\$275,025	\$335	\$2,370
Buildings-----	\$197,894	\$197,894	\$55,174	\$300	\$28,175	\$80,283		
Machinery and equipment, total-----	\$1,173,527	\$1,173,527	\$597,543	\$2,300	\$86,840	\$194,742	\$335	\$2,370
Purchased in new condition-----	\$1,045,861	\$1,045,861	\$553,152	\$1,500	\$27,048	\$136,062	\$335	\$2,370
Purchased in used condition-----	\$127,666	\$127,666	\$46,391		\$1,792	\$58,680		
Number of man-hours worked by wage earners-----	28,998,142	28,955,465	21,075,998	64,694	1,181,398	3,223,241	330,918	172,668
Average hourly earning of wage earners-----	\$0.65	\$0.65	\$0.75	\$0.26	\$0.14	\$0.35	\$0.43	\$0.34
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	146,162	145,791	83,240	431	7,613	29,410	4,298	2,594
Per wage earner-----	7.7	7.7	5.3	12.7	12.0	18.8	22.3	30.2
Prime movers-----	33,120	33,090	6,167	431	551	13,250	1,966	1,880
Electric motors driven by purchased energy-----	113,042	112,701	77,073		6,762	16,160	2,480	1,214
Horsepower rating of electric motors driven by energy generated by reporting companies-----	8,447	8,447	4,270			1,661		30
Fuels consumed: ⁵								
Anthracite (tons of 2,000 pounds)-----	7695	695			695			
Bituminous coal (tons of 2,000 pounds)-----	788,217	68,217	25,282		1,093	20,272	1,966	753
Fuel oils (barrels of 42 gallons)-----	19,605	19,605	88		2,595	1,560	196	521
Gasoline and kerosene (gallons)-----	1,000,621	1,000,621	22,615	2,800	12,518	396,629	21,369	28,253
Electric energy consumed (thousands of kw.-hrs.), total-----	7104,539	104,190	56,653		17,397	12,664	3,442	494
Purchased-----	798,158	97,807	56,152		17,397	12,248	3,442	492
Generated by reporting companies-----	6,303	6,383	2,501			416		2

¹ Represents 2 iron-ore mines, 2 mines and 2 mills in the lode-gold industry, 1 mine and 1 mill in the zinc-ore industry, and 2 mines and 2 mills in the titanium-ore industry.

² Represents 2 quarries and 2 crushing plants in the crushed and broken basalt industry, 1 quarry and 1 crushing plant in the crushed and broken sandstone industry, 2 quarries and 2 crushing plants in the crushed and broken slate industry, 1 quarry and 1 crushing plant in the crushed and broken marble industry, and 1 quarry and 1 crushing plant in the crushed and broken miscellaneous stone industry.

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

⁴ Includes amounts received or due for contract services performed during the year.

⁵ Includes statistics for central-office employees in the phosphate-rock industry and at central offices not classified by industry.

⁶ Contract-service operators were not asked to report expenditures for contract work.

⁷ Includes statistics for contract-service operations.

⁸ No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VIRGINIA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued								Contract-service and nonproducing operations ³
	Stone—Continued		Sand and gravel		Common clay and shale	Feldspar ¹²	Gypsum	All other ¹³	
	Rough-dimension		Common sand and gravel	Other ¹¹					
	Slate	Other ¹⁰							
Number of operating companies ³	5	6	10	3	17	4	5	8	
Number of mines and quarries.....	3	6	11	4	17	4	2	8	
Number of preparation plants.....		2	11	4	1		1	7	
Value of all products ⁴	\$197,566	\$146,177	\$1,229,192	\$295,001	\$159,745	\$158,294	\$282,525	\$1,012,895	\$2,889
Number of persons engaged, total.....	154	75	278	167	85	106	146	551	3
Wage earners (average for the year).....	151	67	245	155	64	98	138	503	2
Number receiving pay during pay-roll period ending nearest the 15th of:									
January.....	151	54	216	107	45	55	162	485	2
February.....	151	56	204	112	50	55	157	466	2
March.....	151	58	228	144	86	58	159	453	2
April.....	151	64	245	150	97	76	161	469	1
May.....	151	70	255	168	97	89	161	475	2
June.....	151	80	237	171	80	102	122	494	2
July.....	151	85	261	165	102	102	122	499	2
August.....	151	84	260	159	102	107	125	496	2
September.....	151	76	275	156	100	126	122	529	2
October.....	151	67	269	161	97	140	122	544	2
November.....	151	59	249	174	92	130	123	556	2
December.....	151	52	243	165	55	140	122	566	2
Salaried employees.....	3	5	35	14		5	10	48	1
Proprietors and firm members.....		5	2		1	5			
Performing manual labor.....		5	1			2			
Principal expenses designated below, total.....	\$144,681	\$59,224	\$580,506	\$170,898	\$90,785	\$85,846	\$211,598	\$689,452	\$46,810
Wages.....	\$95,110	\$40,932	\$252,922	\$87,597	\$60,508	\$67,285	\$129,459	\$364,417	\$24,888
Salaries.....	\$8,416	\$8,671	\$66,404	\$27,641		\$6,000	\$11,976	\$90,906	\$17,136
Supplies and materials.....	\$17,520	\$3,286	\$135,800	\$27,482	\$7,056	\$4,850	\$49,729	\$152,847	\$1,127
Fuel.....	\$15,706	\$4,584	\$107,674	\$10,794	\$15,508	\$7,550	\$94	\$28,712	\$380
Purchased electric energy.....	\$7,980	\$1,951	\$17,906	\$17,384	\$5,197		\$17,481	\$52,901	\$5,466
Contract work.....					\$4,919		\$2,858	\$1,670	\$64
Cost of buildings, machinery, and equipment erected or installed during year.....	\$15,514	\$1,466	\$129,561	\$52,155	\$19,000	\$35,000	\$51,881	\$50,942	
Buildings.....	\$1,000		\$450	\$25,252	\$5,000	\$5,000	\$1,500	\$9,768	
Machinery and equipment, total.....	\$12,514	\$1,466	\$129,111	\$26,923	\$14,000	\$30,000	\$50,381	\$41,174	
Purchased in new condition.....	\$5,154	\$700	\$114,518	\$26,923	\$12,000	\$30,000	\$50,381	\$17,498	
Purchased in used condition.....	\$7,180	\$766	\$13,593		\$2,000			\$23,676	
Number of man-hours worked by wage earners.....	254,060	116,205	560,799	329,585	155,202	198,512	258,935	1,035,312	42,077
Average hourly earning of wage earners.....	\$0.87	\$0.35	\$0.45	\$0.27	\$0.39	\$0.34	\$0.50	\$0.35	\$0.86
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....	1,772	579	4,812	680	1,778	620	2,976	4,978	371
Per wage earner.....	15.5	8.6	19.8	4.5	21.2	6.3	21.6	9.9	16.9
Prime movers.....	1,412	265	3,565	40	1,241	620	20	1,960	50
Electric motors driven by purchased energy.....	560	314	1,247	650	537		2,958	2,998	341
Horsepower rating of electric motors driven by energy generated by reporting companies.....			435					2,061	
Fuels consumed: ⁵									
Anthracite (tons of 2,000 pounds).....									(14)
Bituminous coal (tons of 2,000 pounds).....	2,912	200	7,589	3,280	737	350		4,451	(14)
Fuel oils (barrels of 42 gallons).....		348	15,582					1,185	(14)
Gasoline and kerosene (gallons).....	25,109	14,706	346,806	7,000	70,642	40,400	489	10,685	(14)
Electric energy consumed (thousands of kw.-hrs.), total.....	546	93	1,595	1,046	246		1,386	6,830	789
Purchased.....	546	93	929	1,046	246		1,386	5,830	789
Generated by reporting companies.....			464					5,000	(14)

³ Companies with operations in more than 1 industry are counted only once in the totals.⁴ Includes amounts received or due for contract services performed during the year.⁵ Contract-service operators were not asked to report expenditures for contract work.⁶ Excludes statistics for contract-service operations.⁷ No natural gas was reported consumed; contract-service operators were not asked to report fuels consumed.⁸ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations represent 2 bituminous-coal mines and 1 manganese-ore mine.⁹ Represents 1 rough-dimension limestone quarry, 1 rough-dimension granite quarry, 1 quarry and 1 crushing plant in the rough-dimension basalt industry, 2 rough-dimension sandstone quarries, and 1 quarry and 1 crushing plant in the rough-dimension marble industry.¹⁰ Represents 2 mines and 2 preparation plants in the glass-sand industry and 2 mines and 2 preparation plants in the foundry-sand industry.¹¹ Includes statistics for the production of apatite.¹² Represents 1 mine and 1 preparation plant in the kaolin and ball-clay industry; 1 mine and 1 preparation plant in the barite industry; 1 mine and 1 preparation plant in the kyanite, andalusite, and dumortierite industry; 2 mines and 1 preparation plant in the mica industry; 1 mine and 1 preparation plant in the pyrites industry; and 2 mines and 2 preparation plants in the talc and soapstone industry.¹³ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

VIRGINIA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VIRGINIA, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Arlington	Augusta	Bedford	Blind	Botetourt	Buchanan
Number of operating companies ¹	221	4	7	3	3	6	15
Number of mines and quarries	253	3	7	3	3	7	18
Number of preparation plants	113	—	5	—	1	5	4
Value of all products	\$34,435,841	\$67,018	\$267,374	\$96,294	\$22,787	\$223,281	\$7,619,425
Number of persons engaged, total	20,122	43	153	63	23	270	3,717
Wage earners (average for the year)	18,968	43	132	58	20	254	3,615
Salaried employees	1,041	—	20	—	2	16	100
Proprietors and firm members	95	—	1	5	1	—	2
Performing manual labor	51	—	1	2	—	—	1
Principal expenses designated below, total	\$26,876,574	\$59,264	\$149,159	\$41,744	\$16,956	\$414,861	\$5,296,122
Wages	\$18,863,685	\$32,534	\$74,572	\$38,814	\$8,120	\$175,108	\$4,106,218
Salaries	\$2,087,085	—	\$19,512	—	\$1,800	\$34,108	\$186,065
Supplies and materials	\$4,185,800	\$2,750	\$30,795	\$1,850	\$5,925	\$129,695	\$614,761
Fuel	\$424,565	\$2,980	\$10,956	\$4,080	\$1,120	\$27,551	\$775
Purchased electric energy	\$1,324,110	\$1,000	\$12,424	—	—	\$30,205	\$157,277
Contract work	\$45,779	—	—	—	—	\$8,104	—
Cost of buildings, machinery, and equipment erected or installed during year	\$1,371,411	\$5,000	\$3,659	\$20,000	—	\$109,599	\$206,441
Buildings	\$197,884	\$5,000	—	—	—	\$55,140	\$6,675
Machinery and equipment	\$1,173,527	—	\$3,659	\$20,000	—	\$54,459	\$200,766
Horsepower rating of prime movers and electric motors driven by purchased energy, total	145,791	680	2,047	340	265	5,769	13,659
Prime movers	33,090	395	1,350	340	265	—	147
Electric motors driven by purchased energy	112,701	285	697	—	—	3,194	13,512
Horsepower rating of electric motors driven by energy generated by reporting companies	8,447	—	1,081	—	—	—	—
Fuels consumed: ²							
Anthracite (tons of 2,000 pounds)	695	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	69,217	—	1,657	—	—	—	—
Fuel oils (barrels of 42 gallons)	19,605	—	5	200	—	4,156	285
Gasoline and kerosene (gallons)	1,000,621	22,338	29,970	15,400	7,600	53,586	2
Electric energy consumed (thousands of kw.-hrs.), total	104,190	40	1,045	—	—	2,762	12,699
Purchased	97,807	40	670	—	—	2,762	12,699
Generated by reporting companies	6,383	—	375	—	—	—	—

ITEM	Buckingham	Chesterfield	Dickenson	Franklin	Frederick	Giles	Henrico
Number of operating companies ¹	5	3	6	3	4	3	6
Number of mines and quarries	5	4	7	3	5	3	6
Number of preparation plants	2	3	1	2	3	2	4
Value of all products	\$271,751	\$385,668	\$2,615,157	\$42,079	\$323,291	\$296,166	\$469,056
Number of persons engaged, total	165	67	1,680	31	161	131	104
Wage earners (average for the year)	160	62	1,642	29	170	120	91
Salaried employees	5	5	55	2	19	11	12
Proprietors and firm members	—	—	—	—	1	—	1
Performing manual labor	—	—	—	—	—	—	—
Principal expenses designated below, total	\$177,540	\$201,731	\$2,399,566	\$21,721	\$196,726	\$236,006	\$155,148
Wages	\$114,680	\$75,894	\$1,972,020	\$16,354	\$105,462	\$87,749	\$80,004
Salaries	\$12,191	\$9,750	\$69,097	\$1,315	\$21,270	\$30,279	\$21,779
Supplies and materials	\$20,020	\$72,700	\$252,215	\$1,599	\$29,909	\$60,966	\$26,507
Fuel	\$20,898	\$44,587	\$1,677	\$1,565	\$7,515	\$7,725	\$16,223
Purchased electric energy	\$9,551	—	\$104,151	\$800	\$22,691	\$29,289	\$10,545
Contract work	—	—	—	—	—	—	—
Cost of buildings, machinery, and equipment erected or installed during year	\$17,184	\$109,445	\$40,827	—	\$37,182	\$32,276	\$1,450
Buildings	\$1,471	—	\$8,500	—	—	\$8,986	—
Machinery and equipment	\$15,713	\$109,445	\$32,327	—	\$37,182	\$23,290	\$1,450
Horsepower rating of prime movers and electric motors driven by purchased energy, total	2,284	1,361	10,666	132	1,429	4,078	1,436
Prime movers	1,799	1,361	550	132	74	1,421	914
Electric motors driven by purchased energy	485	—	10,116	—	1,355	3,257	522
Horsepower rating of electric motors driven by energy generated by reporting companies	—	360	—	—	—	—	—
Fuels consumed: ²							
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	3,148	6,099	821	—	1,300	1,639	822
Fuel oils (barrels of 42 gallons)	426	9,354	—	25	—	—	2,996
Gasoline and kerosene (gallons)	28,415	14,766	1,210	9,690	15,360	220	36,710
Electric energy consumed (thousands of kw.-hrs.), total	596	314	7,839	26	1,308	2,157	466
Purchased	596	—	7,839	26	1,308	2,157	466
Generated by reporting companies	—	314	—	—	—	—	—

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

² No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN VIRGINIA, BY COUNTY: 1939—Continued

(For producing operations only)

ITEM	Lee	Montgomery	Nelson	Pulaski	Roanoke	Rockbridge	Rockingham
Number of operating companies ¹	18	5	5	5	4	4	7
Number of mines and quarries	23	5	5	5	4	4	7
Number of preparation plants	1	2	2	1	5	5	6
Value of all products	\$2,572,611	\$507,665	\$975,945	\$182,774	\$141,256	\$279,184	\$68,170
Number of persons engaged, total	1,592	400	512	88	78	148	51
Wage earners (average for the year)	1,809	578	465	82	52	187	41
Salaried employees	68	19	47	5	26	10	2
Proprietors and firm members	15	5	—	1	—	1	8
Performing manual labor	6	1	—	1	—	—	7
Principal expenses designated below, total	\$2,086,700	\$250,627	\$615,962	\$157,024	\$145,177	\$175,588	\$31,862
Wages	\$1,649,626	\$191,460	\$316,898	\$87,856	\$34,434	\$84,481	\$28,129
Salaries	\$100,866	\$14,950	\$104,628	\$12,032	\$45,783	\$25,440	\$4,807
Supplies and materials	\$231,738	\$32,547	\$124,401	\$51,004	\$40,547	\$52,069	\$8,028
Fuel	\$19,829	\$2,150	\$22,191	\$7,372	\$9,895	\$18,594	\$7,008
Purchased electric energy	\$82,841	\$9,520	\$45,814	\$17,872	\$10,351	\$9,004	\$2,440
Contract work	\$1,800	—	\$50	\$288	\$6,187	\$4,000	—
Cost of buildings, machinery, and equipment erected or installed during year	\$128,748	—	\$71,579	\$1,446	\$6,419	\$50,465	—
Buildings	\$21,258	—	\$8,971	—	—	\$25,232	—
Machinery and equipment	\$107,510	—	\$62,608	\$1,446	\$6,419	\$25,231	—
Horsepower rating of prime movers and electric motors driven by purchased energy, total	9,116	2,478	5,857	1,806	1,154	1,277	794
Prime movers	1,326	1,890	1,577	498	513	917	358
Electric motors driven by purchased energy	7,790	648	2,280	1,510	641	560	436
Horsepower rating of electric motors driven by energy generated by reporting companies	624	—	1,794	—	—	—	—
Fuels consumed: ²							
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—
Bituminous coal (tons of 2,000 pounds)	4,646	900	5,922	1,765	625	3,811	389
Fuel oils (barrels of 42 gallons)	215	22	—	66	—	157	—
Gasoline and kerosene (gallons)	45,717	1,782	27,900	8,129	37,491	29,011	50,235
Electric energy consumed (thousands of kw.-hrs.), total	5,825	508	6,236	1,167	444	611	115
Purchased	5,735	508	5,510	1,167	444	611	115
Generated by reporting companies	90	—	726	—	—	—	—

ITEM	Russell	Scott	Shenandoah	Smyth	Tazewell	Wise	Wythe	All others ³
Number of operating companies ¹	13	5	8	5	17	24	5	40
Number of mines and quarries	15	5	8	5	19	31	5	44
Number of preparation plants	3	1	4	5	9	1	4	36
Value of all products	\$1,295,436	\$64,987	\$406,916	\$524,499	\$5,477,120	\$5,488,766	\$1,284,948	\$2,409,201
Number of persons engaged, total	910	61	259	186	3,406	3,964	524	1,635
Wage earners (average for the year)	842	58	248	167	3,191	3,724	465	925
Salaried employees	59	1	10	14	205	226	59	89
Proprietors and firm members	9	2	1	5	10	14	2	11
Performing manual labor	7	1	—	1	6	9	—	6
Principal expenses designated below, total	\$1,166,518	\$62,018	\$287,879	\$235,909	\$5,058,900	\$4,766,018	\$952,051	\$1,576,413
Wages	\$853,377	\$53,371	\$183,508	\$131,559	\$3,587,823	\$3,514,717	\$518,070	\$778,289
Salaries	\$154,574	\$5,120	\$11,464	\$22,776	\$466,900	\$385,537	\$104,092	\$173,090
Supplies and materials	\$106,784	\$15,889	\$55,534	\$51,155	\$755,223	\$636,680	\$192,173	\$366,459
Fuel	\$11,584	\$1,415	\$20,872	\$2,654	\$21,198	\$10,940	\$6,992	\$115,574
Purchased electric energy	\$35,259	\$6,423	\$12,501	\$22,906	\$215,138	\$211,113	\$110,704	\$125,403
Contract work	—	—	—	\$2,659	\$12,650	\$7,031	—	\$2,769
Cost of buildings, machinery, and equipment erected or installed during year	\$711	\$1,016	\$20,157	\$6,995	\$17,000	\$169,479	\$15,625	\$210,009
Buildings	\$250	\$420	\$1,575	\$665	\$325	\$16,008	—	\$23,570
Machinery and equipment	\$461	\$596	\$18,782	\$6,130	\$16,675	\$153,473	\$15,625	\$186,439
Horsepower rating of prime movers and electric motors driven by purchased energy, total	6,894	1,913	1,580	2,757	20,452	25,241	6,028	17,939
Prime movers	285	1,153	814	782	5,444	402	672	7,239
Electric motors driven by purchased energy	6,409	780	746	1,975	17,008	22,839	5,356	20,800
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	—	3,646	—	—	696
Fuels consumed: ²								
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	695	—
Bituminous coal (tons of 2,000 pounds)	5,173	442	5,401	—	11,046	5,904	—	3,908
Fuel oils (barrels of 42 gallons)	6	—	—	30	—	6	100	8,233
Gasoline and kerosene (gallons)	4,444	2,666	48,016	19,970	27,766	3,462	21,648	458,639
Electric energy consumed (thousands of kw.-hrs.), total	2,615	468	552	1,417	13,101	16,898	14,793	29,143
Purchased	2,615	468	552	1,417	10,660	16,898	14,793	28,978
Generated by reporting companies	—	—	—	—	2,411	—	—	465

¹ Companies with operations in more than 1 county are counted only once in the totals.² No natural gas was reported consumed.³ Albemarle, Alleghany, Amherst, Bath, Carroll, Charles City, Clarke, Craig, Culpeper, Elizabeth City, Fairfax, Goochland, Greenville, Halifax, Loudoun, Lynchburg City, Manassas, Norfolk, Nottingham, Page, Pittsylvania, Prince Edward, Prince George, Prince William, Princess Anne, Spotsylvania, Warren, Washington, and central part of Campbell County and Richmond City.

WASHINGTON

Washington ranked thirtieth among the States in value of products of mineral industries in 1939, and twenty-ninth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1939, the 1939 value of products was 100 percent of that in 1939, and the number of wage earners 100 percent. (See table 1.) For industries covered in both 1919 and 1939, the 1939 value of products was 96 percent of that in 1919, and the number of wage earners 73 percent. Total horsepower rating of power equipment at mineral operations in 1939 was 157 percent of that in 1929, and 174 percent of that in 1919.

The bituminous-coal industry ranked first among the mineral industries in the State in 1939, accounting for 38 percent of the total value of products and 57 percent of the wage

earners employed. The copper-ore industry ranked next, with 19 percent of the total value of products and 9 percent of the wage earners. Washington ranked first among all States in value of products in the magnesite and brucite industry. (See report for this industry.)

Other mineral industries in the State were crude petroleum and natural gas, iron ore, gold, silver ore, lead ore, zinc ore, molybdenum ore, tungsten ore, limestone, granite, basalt, sandstone, miscellaneous stone, common sand and gravel, foundry sand, fire clay, common clay and shale, diatomite, peat, and talc and soapstone. Mineral operations were located in 29 counties in 1939; principal statistics by county are shown in table 3, and for operations other than oil and gas wells, number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN WASHINGTON: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1929 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1929 ¹ 2	1929	1929 ¹ 3	1919
Number of mines and quarries-----	185	185	121	127	93
Number of gas wells producing at end of year-----	12	12		12	
Value of all products-----	\$15,628,325	\$15,628,325	\$15,306,819	\$12,745,511	\$15,628,129
Number of persons engaged, total-----	4,517	4,287	4,110	4,106	4,597
Wage earners (average for the year)-----	3,854	3,855	3,818	3,899	5,090
Salaried employees-----	343	343	299	311	514
Proprietors and firm members-----	110	106	88	99	52
Performing manual labor-----	72	71	(*)	99	16
Principal expenses designated below, total-----	\$6,736,716	\$6,705,873	\$6,841,422	\$6,821,040	\$10,690,757
Wages-----	\$5,340,575	\$5,515,618	\$6,068,867	\$6,065,825	\$7,425,622
Salaries-----	\$615,798	\$615,798	\$624,713	\$729,643	\$822,548
Supplies and materials-----	\$1,910,554	\$1,908,609	\$1,764,819	\$1,844,655	\$1,728,586
Fuel-----	\$244,865	\$248,442	\$260,413	\$242,357	\$798,780
Purchased electric energy-----	\$361,446	\$379,926	\$391,159	\$349,320	\$139,800
Contract work-----	\$45,492	\$45,492	\$41,551	\$44,890	\$86,824
Cost of machinery and equipment installed during year-----	\$326,287	\$326,287	\$499,283	\$405,999	(*)
Horsepower rating of power equipment, total-----	76,445	76,812	47,702	66,555	59,196
Per wage earner-----	19.5	19.5	12.5	18.0	7.6
Prime movers-----	31,774	31,568	10,551	27,672	84,352
Electric motors driven by purchased energy-----	45,669	45,449	37,351	38,883	13,844
Electric energy consumed (thousands of kw.-hrs.), total-----	50,680	49,981	45,253	46,046	(*)
Purchased-----	42,340	42,241	42,728	42,514	(*)
Generated by reporting companies-----	7,740	7,740	227	7,532	(*)

¹Includes operations of 1 company in the crude-petroleum and natural-gas industry. This industry was not included in the census of mineral industries for 1929.

²Includes 1 mine and 1 preparation plant in the peat industry. This industry was not included in the census of mineral industries for 1929 or 1919.

³Includes 1 mine and 1 preparation plant in the foundry-sand industry. Also includes 8 limestone quarries, with products valued at \$580,778, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

⁴Not available.

⁵Includes 200 horsepower for equipment operated by purchased power other than electric.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WASHINGTON, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS							
		Total	Bituminous coal	Iron ore	Gold		Silver ore	Copper ore	Others ¹
					Lode	Placer			
Number of operating companies:	157	146	42	3	17	6	3	3	6
Number of mines and quarries:	174	165	52	3	18	6	3	3	6
Number of gas wells producing on December 31, 1939:	12	12							
Number of preparation plants:	79	77	18		6		2	1	5
Value of all products ² :	\$13,694,350	\$13,699,393	\$5,261,661	\$45,692	\$1,250,196	\$47,006	\$52,539	\$2,627,937	\$973,132
Number of persons engaged, total:	4,362	4,317	2,409	15	278	24	32	383	235
Wage earners (average for the year):	5,894	5,864	2,219	13	256	9	18	532	211
Number receiving pay during pay-roll period ending nearest the 15th of:									
January:	5,982	5,949	2,406	5	274		9	359	209
February:	5,966	5,941	2,418	4	262		16	362	249
March:	5,977	5,949	2,320	4	258		22	355	242
April:	5,776	5,753	2,083	11	252		13	365	165
May:	5,729	5,694	2,034	16	245		19	380	180
June:	5,625	5,765	2,015	15	272	13	20	359	179
July:	5,678	5,651	1,971	15	277	17	20	314	176
August:	5,486	5,456	2,074	15	254	13	20	45	168
September:	4,059	4,024	2,229	20	245	18	20	366	205
October:	4,107	4,077	2,292	19	213	18	20	377	221
November:	4,134	4,104	2,369	17	165	14	18	375	234
December:	4,008	5,982	2,591	17	143	14	15	347	217
Salaried employees:	354	343	137		35	1	14	51	21
Proprietors and firm members:	114	110	43	2	7	14			1
Performing manual labor:	74	72	42		5	14			
Principal expenses designated below, total:	\$49,822,412	\$49,738,716	\$4,156,798	\$20,688	\$769,586	\$35,075	\$43,698	\$1,251,361	\$604,486
Wages:	\$5,376,070	\$5,340,573	\$2,947,264	\$14,437	\$348,484	\$11,962	\$16,785	\$567,955	\$305,539
Salaries:	\$426,714	\$415,786	\$305,963		\$68,493	\$1,660	\$18,195	\$174,023	\$55,007
Supplies and materials:	\$1,922,596	\$1,910,554	\$677,681	\$5,010	\$257,767	\$8,546	\$3,345	\$367,553	\$227,304
Fuel:	\$250,104	\$244,965	\$48,393	\$1,241	\$40,814	\$12,908	\$5,375	\$25,530	\$13,611
Purchased electric energy:	\$381,446	\$381,446	\$175,425		\$55,830			\$78,562	\$5,032
Contract work:	to \$65,492	\$45,492	\$3,872					\$40,140	
Cost of buildings, machinery, and equipment erected or installed during year:	\$59,561	\$495,854	\$77,351	\$2,650	\$56,462	\$5,685	\$750	\$129,609	\$45,087
Buildings:	\$195,969	\$167,597	\$21,595	\$250	\$12,685	\$201	\$219	\$78,974	\$241
Machinery and equipment, total:	\$402,573	\$328,257	\$45,956	\$2,400	\$23,777	\$5,684	\$531	\$50,635	\$42,646
Purchased in new condition:	\$342,845	\$296,409	\$41,432		\$22,180	\$5,020	\$465	\$50,655	\$38,393
Purchased in used condition:	\$59,728	\$27,848	\$4,524	\$2,400	\$1,617	\$664	\$66		\$4,453
Number of man-hours worked by wage earners:	6,607,762	6,552,786	3,093,285	24,876	564,585	17,445	35,000	765,056	470,649
Average hourly earning of wage earners:	\$0.51	\$0.62	\$0.95	\$0.58	\$0.62	\$0.69	\$0.51	\$0.74	\$0.65
Horsepower rating of prime movers and electric motors driven by purchased energy, total:	77,784	75,443	34,335	140	6,183	1,145	660	6,032	4,608
Per wage earner:	20.0	19.5	15.5	10.8	26.2	127.0	38.7	18.2	21.9
Prime movers:	35,997	31,774	6,523	140	4,493	1,145	660	2,733	3,552
Electric motors driven by purchased energy:	45,787	43,669	27,810		1,690			3,299	1,056
Horsepower rating of electric motors driven by energy generated by reporting companies:	5,114	5,039			904		125		2,405
Fuels consumed:									
Anthracite (tons of 2,000 pounds):	to 5	5							94
Bituminous coal (tons of 2,000 pounds):	to 17,545	17,000	15,911		6				1,188
Fuel oils (barrels of 42 gallons):	to 29,410	28,959	305		5,517	2,539	875	4,133	26,429
Gasoline and kerosene (gallons):	to 675,460	665,228	35,699	6,300	100,678	25,285	12,415	57,594	
Natural gas (thousands of cubic feet):	to 5,000	5,000							
Electric energy consumed (thousands of kw.-hrs.), total:	to 50,065	50,060	18,773		4,224		7	13,464	6,908
Purchased:	42,340	42,340	18,757		5,917			13,464	6,908
Generated by reporting companies:	to 7,745	7,740	16		307		7		

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work. Nonproducing operations represent operations of 1 company in the crude-petroleum and natural-gas industry, 1 mine and 1 mill in the lode-gold industry, 1 silver-ore mine, 1 lead-ore mine, 2 molybdenum-ore mines, 1 mine and 1 preparation plant in the common sand and gravel industry, and 2 major nonferrous-ore mines not classified by industry.

² Represents operations of 1 company in the crude-petroleum and natural-gas industry, 1 mine and 1 preparation plant in the foundry-sand industry, 1 mine and 1 preparation plant in the magnesite and brucite industry, 1 mine and 1 preparation plant in the peat industry, and 1 mine and 1 preparation plant in the talc and scapolite industry.

³ Represents 1 lead-ore mine, 2 mines and 2 mills in the zinc-ore industry, 1 mine and 1 mill in the molybdenum-ore industry, and 2 mines and 2 mills in the tungsten-ore industry.

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WASHINGTON, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued									Contract service and nonproducing operations ¹
	Stone				Common sand and gravel	Clay and shale		Diatomite	All others ²	
	Crushed and broken			Rough-dimension granite and sandstone ⁴		Fire clay	Common clay and shale			
	Limestone	Basalt	Granite and miscellaneous							
Number of operating companies ⁵	14	9	3	3	21	5	8	3	5	11
Number of mines and quarries	18	9	4	3	18	5	10	3	4	9
Number of gas wells producing on December 31, 1939									12	
Number of preparation plants	7	9	3		18		1	3	4	2
Value of all products ⁷	\$938,414	\$378,316	\$170,309	\$44,548	\$894,928	\$42,884	\$49,944	\$26,771	\$1,008,884	\$5,987
Number of persons engaged, total	339	108	43	29	179	28	30	27	188	45
Wage earners (average for the year)	314	94	38	26	137	27	29	21	140	30
Number receiving pay during pay-roll period ending nearest the 15th of:										
January	242	69	9	34	98	21	12	11	116	28
February	230	76	19	41	100	17	19	14	114	27
March	286	90	40	40	123	26	30	18	167	28
April	308	141	49	38	144	24	33	15	112	23
May	334	132	49	52	149	30	38	32	44	34
June	326	147	45	23	164	30	38	27	109	39
July	304	131	44	28	151	28	35	21	119	25
August	320	96	53	21	159	28	38	16	123	30
September	374	61	57	17	158	29	37	16	172	35
October	360	64	49	15	142	32	30	24	199	30
November	351	66	20	11	137	36	29	28	215	30
December	331	51	16	5	122	33	7	21	232	26
Salaried employees	19	9	4	1	32			2	15	11
Proprietors and firm members	6	5	1	2	10	1	1	4	5	4
Performing manual labor	1		1	1	2	1	1	1	5	2
Principal expenses designated below, total	\$879,675	\$235,432	\$85,769	\$41,713	\$444,833	\$26,863	\$32,843	\$20,484	\$284,980	\$35,696
Wages	\$454,676	\$124,676	\$51,247	\$32,599	\$229,811	\$22,310	\$26,987	\$11,507	\$194,378	\$35,497
Salaries	\$41,151	\$18,231	\$14,061	\$2,400	\$89,543			\$1,367	\$24,407	\$10,988
Supplies and materials	\$180,743	\$59,973	\$12,700	\$1,844	\$64,584	\$3,531	\$1,945	\$2,533	\$55,525	\$12,032
Fuel	\$22,407	\$27,997	\$7,408	\$1,582	\$30,215	\$120	\$2,423	\$2,896	\$5,147	\$5,259
Purchased electric energy	\$20,692	\$4,555	\$553	\$5,298	\$30,308	\$24	\$1,518	\$908	\$7,235	
Contract work					\$632	\$878				10 \$20,000
Cost of buildings, machinery, and equipment erected or installed during year	\$81,438	\$11,074	\$25,348	\$501	\$25,908			\$20,849	\$32,942	\$102,707
Buildings	\$21,937		\$314		\$5,648			\$15,732		\$26,391
Machinery and equipment, total	\$59,501	\$11,074	\$25,035	\$501	\$20,259			\$5,116	\$32,942	\$76,316
Purchased in new condition	\$55,381	\$10,949	\$21,156	\$35	\$15,968			\$4,045	\$32,942	\$44,436
Purchased in used condition	\$4,120	\$125	\$3,879	\$438	\$4,291			\$1,071	\$100	\$31,880
Number of man-hours worked by wage earners	818,452	173,529	110,960	44,071	272,295	36,122	38,890	24,456	267,127	54,976
Average hourly earning of wage earners	\$0.70	\$0.72	\$0.46	\$0.74	\$0.84	\$0.62	\$0.60	\$0.47	\$0.73	\$0.65
Horsepower rating of prime movers and electric motors driven by purchased energy, total	5,870	4,667	669	600	6,280	10	688	264	1,379	2,291
Per wage earner	18.7	49.6	17.6	23.1	60.3	3.4	21.7	12.6	9.8	78.4
Prime movers	3,189	3,988	649	140	3,625	10	408	141	332	2,223
Electric motors driven by purchased energy	2,701	679	20	460	4,567		220	123	1,047	68
Horsepower rating of electric motors driven by energy generated by reporting companies	1,137	295			30				63	75
Fuels consumed:										
Anthracite (tons of 2,000 pounds)	4			1						(11)
Bituminous coal (tons of 2,000 pounds)	427			400			140		20	30 45
Fuel oils (barrels of 42 gallons)	2,158	3,087	640		8,517				142	10 551
Gasoline and kerosene (gallons)	85,506	121,929	26,040		115,895	600	2,237	20,077	11,778	20 12,232
Natural gas (thousands of cubic feet)									5,000	(11)
Electric energy consumed (thousands of kw.-hrs.), total	3,104	446	10	138	1,935	1	99	28	912	10 5
Purchased	2,021	158	10	138	1,927	1	99	28	905	
Generated by reporting companies	1,083	288							7	10 5

⁴ Represents 1 rough-dimension granite quarry and 2 rough-dimension sandstone quarries.⁵ Represents 2 quarries and 1 crushing plant in the crushed and broken granite industry, and 2 quarries and 2 crushing plants in the crushed and broken miscellaneous stone industry.⁶ Companies with operations in more than 1 industry are counted only once in the totals.⁷ Includes amounts received or due for contract services performed during the year.⁸ Includes statistics for central-office employees in the mercury industry and at central offices not classified by industry.⁹ Contract-service operators were not asked to report expenditures for contract work.¹⁰ Excludes statistics for contract-service operations.¹¹ Nonproducing operations reported "none"; contract-service operators were not asked to report fuels consumed or electric energy consumed.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WASHINGTON, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Douglas	Ferry	King	Kittitas	Lewis	Okanogan
Number of operating companies	146	5	11	55	6	9	7
Number of mines and quarries	166	4	12	59	10	9	7
Number of gas wells producing on December 31, 1939	12						
Number of preparation plants	77	2	1	20	3	3	3
Value of all products	\$13,688,593	\$119,954	\$982,582	\$2,384,293	\$2,110,564	\$107,932	\$255,972
Number of persons engaged, total	4,517	40	206	1,068	1,028	61	61
Wage earners (average for the year)	5,894	55	181	838	982	51	49
Salaried employees	345	5	17	89	42	2	7
Proprietors and firm members	110	2	10	31	4	7	5
Performing manual labor	72	2	8	21	4	6	5
Principal expenses designated below, total	\$8,736,718	\$79,605	\$614,014	\$1,956,960	\$1,609,191	\$85,861	\$101,543
Wages	\$5,540,673	\$48,231	\$275,477	\$1,284,537	\$1,184,312	\$57,628	\$61,479
Salaries	\$615,793	\$12,400	\$57,519	\$192,755	\$51,695	\$6,474	\$5,400
Supplies and materials	\$1,026,584	\$12,547	\$217,590	\$341,660	\$247,669	\$14,840	\$23,875
Fuel	\$244,565	\$6,627	\$30,096	\$20,562	\$25,259	\$2,812	\$9,889
Purchased electric energy	\$381,448		\$55,130	\$83,741	\$64,869	\$4,207	\$700
Contract work	\$45,492			\$5,287	\$1,187		
Cost of buildings, machinery, and equipment erected or installed during year	\$483,654	\$24,385	\$18,050	\$55,327	\$41,910	\$3,214	\$27,682
Buildings	\$187,697	\$180	\$4,026	\$31,506	\$20,415		\$11,960
Machinery and equipment	\$326,237	\$24,255	\$14,024	\$23,822	\$21,495	\$3,214	\$15,102
Horsepower rating of prime movers and electric motors driven by purchased energy, total	72,443	435	3,817	12,491	18,714	1,357	1,496
Prime movers	21,774	435	2,177	1,601	3,555	822	1,445
Electric motors driven by purchased energy	48,669		1,640	10,890	15,161	515	50
Horsepower rating of electric motors driven by energy generated by reporting companies	5,029			259			275
Fuels consumed:							
Anthracite (tons of 2,000 pounds)	5			4			
Bituminous coal (tons of 2,000 pounds)	17,000			1,031	10,280	335	8
Fuel oils (barrels of 42 gallons)	28,869	600	3,146	1,025	21	75	1,797
Gasoline and kerosene (gallons)	593,226	22,655	86,158	96,189	18,558	7,746	19,900
Natural gas (thousands of cubic feet)	5,000						
Electric energy consumed (thousands of kw.-hrs.), total	50,060		3,890	8,441	8,645	265	104
Purchased	42,540		3,890	8,408	8,645	265	27
Generated by reporting companies	7,740			53			77

ITEM	Pend Oreille	Pierce	San Juan	Snohomish	Spokane	Stevens	Whatcom	All other*
Number of operating companies	3	15	5	6	10	16	8	21
Number of mines and quarries	4	15	4	6	10	17	5	20
Number of gas wells producing on December 31, 1939								
Number of preparation plants	5	5		1	5	9	6	22
Value of all products	\$627,933	\$685,056	\$235,492	\$154,710	\$165,250	\$1,547,147	\$1,067,878	\$3,257,760
Number of persons engaged, total	226	149	78	47	102	284	371	668
Wage earners (average for the year)	896	116	72	36	70	265	545	514
Salaried employees	19	12	6	8	28	15	21	77
Proprietors and firm members		21	1	3	4	5	5	12
Performing manual labor		12		1	1	3	3	4
Principal expenses designated below, total	\$538,623	\$533,358	\$133,531	\$93,412	\$135,578	\$525,975	\$904,705	\$1,708,502
Wages	\$312,309	\$208,745	\$82,917	\$48,652	\$66,111	\$358,561	\$557,041	\$814,185
Salaries	\$47,810	\$54,523	\$16,421	\$14,346	\$36,667	\$27,583	\$58,655	\$224,235
Supplies and materials	\$225,377	\$32,975	\$29,203	\$14,605	\$15,524	\$115,729	\$159,708	\$465,982
Fuel	\$6,588	\$9,427	\$7,980	\$4,476	\$5,420	\$27,518	\$21,777	\$61,551
Purchased electric energy	\$6,689	\$18,658		\$425	\$10,978	\$14,666	\$27,564	\$66,589
Contract work				\$706				\$59,634
Cost of buildings, machinery, and equipment erected or installed during year	\$43,956	\$11,417	\$69,755	\$4,860	\$4,871	\$39,898	\$6,124	\$155,187
Buildings	\$694	\$724	\$14,027	\$1,514	\$1,500	\$1,115		\$80,156
Machinery and equipment	\$42,902	\$10,693	\$45,728	\$3,346	\$3,371	\$38,782	\$6,124	\$75,031
Horsepower rating of prime movers and electric motors driven by purchased energy, total	4,651	4,601	585	1,179	1,612	4,676	7,495	12,184
Prime movers	3,103	1,195	585	1,159	907	2,633	3,960	7,760
Electric motors driven by purchased energy	1,548	2,406		21	905	1,643	3,506	4,424
Horsepower rating of electric motors driven by energy generated by reporting companies	2,400		18			210	829	1,589
Fuels consumed:								
Anthracite (tons of 2,000 pounds)					1			
Bituminous coal (tons of 2,000 pounds)	82	523				2	4,329	469
Fuel oils (barrels of 42 gallons)	297	758	1,480	40	245	5,655	1,095	14,504
Gasoline and kerosene (gallons)	35,313	34,319	21,500	27,625	26,285	67,057	29,597	170,599
Natural gas (thousands of cubic feet)								5,000
Electric energy consumed (thousands of kw.-hrs.), total	7,062	1,536	175	11	446	1,665	2,744	15,109
Purchased	1,278	1,536		11	446	1,408	2,514	13,515
Generated by reporting companies	5,774		175			257	230	1,594

* Companies with operations in more than 1 county are counted only once in the totals.

* Adams, Chelan, Clark, Columbia, Cowlitz, Grant, Grays Harbor, Jefferson, Kitsap, Pacific, Skagit, Skamania, Thurston, Wahkiakum, Whitman, and Yakima.

WEST VIRGINIA

West Virginia, as the largest producer of bituminous coal, ranked fourth among all States in value of products of mineral industries in 1939, and second to Pennsylvania in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 83 percent of that in 1929, and the number of wage earners 94 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 76 percent of that for 1919, and the number of wage earners 101 percent. Differences between totals for 1929 and 1939 are accounted for largely by decreases in the bituminous-coal industry. The decline in value of products between 1919 and 1939 is accounted for principally by the crude-petroleum and natural-gas and natural-gasoline industries. The increase in number of wage earners between 1919 and 1939 is accounted for principally by the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 119 percent of that in 1929, and 129 percent of that in 1919.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

The bituminous-coal industry accounted for 86 percent of the total value of products of all mineral industries in the State, and for 92 percent of the number of wage earners. (See table 1.) The crude-petroleum and natural-gas industry ranked second, with 13 percent of the value of products and 5 percent of the wage earners. The bituminous-coal industry in the State accounted for 28 percent of the total production of bituminous coal by the industry in the United States and employed 26 percent of the wage earners in the industry. West Virginia ranked third among all States in value of products in the glass-sand and natural-abrasives industries. (See reports for these industries.)

Other mineral industries in the State were crushed and broken limestone, rough-dimension sandstone, common sand and gravel, foundry sand, fire clay, and common clay and shale. Mineral operations (other than oil and gas wells) were located in 49 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN WEST VIRGINIA: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale, crude-petroleum and natural-gas, and natural-gasoline industries)		1939 AND 1919 (Excluding the common clay and shale, common sand and gravel, and glass-sand industries)	
		1929	1929	1939 ¹	1919
Number of mines and quarries-----	793	793	891	792	1,325
Number of oil and gas wells producing at end of year-----	26,137			26,137	27,763
Number of natural-gasoline plants-----	78			78	230
Value of all products-----	\$222,779,985	\$196,257,564	\$223,490,754	\$220,591,942	\$226,755,123
Number of persons engaged, total-----	107,498	106,114	106,747	106,955	110,337
Wage earners (average for the year)-----	131,615	95,090	161,422	121,548	100,612
Salaried employees-----	4,954	4,107	5,156	4,669	7,946
Proprietors and firm members-----	789	117	169	728	1,887
Performing manual labor-----	512	208	(2)	312	124
Principal expenses designated below, total-----	\$175,856,196	\$182,477,535	\$179,179,056	\$174,094,756	\$186,370,792
Wages-----	\$128,402,058	\$121,425,975	\$128,906,480	\$127,846,750	\$119,577,949
Salaries-----	\$10,932,650	\$9,215,701	\$12,430,758	\$10,651,682	\$14,354,240
Supplies and materials-----	\$25,355,821	\$23,567,085	\$25,226,830	\$25,157,591	\$40,740,077
Fuel-----	\$1,794,626	\$779,381	\$622,310	\$1,081,125	\$5,821,455
Purchased electric energy-----	\$7,141,975	\$7,118,918	\$6,412,372	\$7,071,908	\$2,987,511
Contract work-----	\$2,359,566	\$377,590	\$294,306	\$1,532,969	\$3,985,691
Cost of machinery and equipment installed during year-----	\$9,217,253	\$7,524,816	\$6,471,884	\$6,120,735	(*)
Horsepower rating of power equipment, total-----	922,293	799,696	870,344	909,529	704,279
For wage earner-----	9.1	6.4	6.6	9.0	7.0
Prime movers-----	251,156	152,095	107,923	245,632	405,909
Electric motors driven by purchased energy-----	671,137	647,601	562,421	663,897	1,219,390
Electric energy consumed (thousands of kw.-hrs.), total-----	684,761	677,026	649,838	686,825	(*)
Purchased-----	557,754	556,178	556,138	553,662	(*)
Generated by reporting companies-----	127,007	120,848	113,700	133,163	(*)

¹ Includes 1 mine and 1 preparation plant in the foundry-sand industry. Also includes 6 limestone mines and quarries, with products valued at \$1,019,149, operated in conjunction with cement and lime plants. Such operations were not included in the census of mineral industries for 1919.

² Not available.

³ Includes 57 horsepower for equipment operated by purchased power other than electric.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WEST VIRGINIA, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS				
		Total	Fuels			Crushed and broken limestone
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal	
Number of operating companies ¹	1,095	1,041	419	24	557	22
Number of mines and quarries	796	795			721	25
Number of oil and gas wells producing on December 31, 1939	26,137	26,137	26,137			
Number of preparation plants	259	259		78	107	23
Value of all products ²	\$224,299,050	\$222,779,983	\$23,020,022	\$3,595,686	\$190,668,091	\$2,443,433
Number of persons engaged, total	106,062	107,496	6,416	894	98,542	1,011
Wage earners (average for the year)	102,302	101,815	5,290	774	94,064	940
Number receiving pay during pay-roll period ending nearest the 15th of:						
January	106,061	107,633	4,658	745	100,729	668
February	107,642	107,659	4,664	733	100,353	715
March	106,535	106,159	4,961	758	99,004	797
April	20,864	20,527	5,119	746	13,073	862
May	76,788	76,354	5,072	772	71,717	822
June	104,569	105,892	5,245	768	96,055	1,040
July	106,101	105,596	5,248	745	97,774	1,058
August	108,494	107,973	5,349	747	100,047	1,040
September	115,029	114,496	5,606	794	106,202	1,072
October	124,129	123,370	5,711	836	115,065	1,137
November	125,922	125,296	6,072	833	116,612	1,027
December	120,761	120,197	5,368	816	112,583	950
Salaried employees	4,956	4,934	706	120	3,965	57
Proprietors and firm members	802	759	422		293	14
Performing manual labor	336	312	104		205	1
Principal expenses designated below, total	\$176,545,573	\$176,856,196	\$10,650,407	\$2,662,489	\$159,017,383	\$1,860,332
Wages	\$128,977,918	\$128,402,058	\$6,045,163	\$860,045	\$119,563,909	\$1,058,080
Salaries	\$10,848,997	\$10,808,850	\$1,156,087	\$232,796	\$8,617,376	\$111,774
Supplies and materials	\$25,370,288	\$25,355,201	\$862,086	\$923,497	\$22,774,750	\$448,066
Fuel	\$1,801,412	\$1,794,826	\$397,961	\$616,255	\$804,768	\$50,076
Purchased electric energy	\$7,147,039	\$7,141,875	\$13,076	\$7,830	\$6,801,801	\$197,606
Contract work	\$2,399,919	\$2,358,386	\$1,976,064	\$2,066	\$354,799	
Cost of buildings, machinery, and equipment erected or installed during year	\$10,266,713	\$10,246,675	\$1,691,655	\$71,407	\$7,987,606	\$115,064
Buildings	\$41,051,173	\$41,029,622	\$66,921	\$4,560	\$694,250	\$23,706
Machinery and equipment, total	\$9,231,540	\$9,217,253	\$1,624,714	\$66,847	\$7,093,556	\$91,358
Purchased in new condition	\$6,548,909	\$6,536,265	\$1,695,020	\$65,922	\$4,807,672	\$45,833
Purchased in used condition	\$2,682,131	\$2,680,988	\$139,694	\$25	\$485,684	\$45,545
Number of man-hours worked by wage earners	156,344,088	155,554,276	9,025,679	1,275,477	141,822,644	1,669,230
Average hourly earning of wage earners	\$0.82	\$0.83	\$0.67	\$0.69	\$0.84	\$0.86
Horsepower rating of prime movers and electric motors driven by purchased energy, total	934,402	922,295	101,133	21,146	764,029	15,139
Per wage earner	9.1	9.1	19.1	27.3	8.1	20.4
Prime movers	262,455	251,136	97,800	20,996	117,643	5,760
Electric motors driven by purchased energy	671,947	671,157	3,333	150	646,386	13,409
Horsepower rating of electric motors driven by energy generated by reporting companies	112,672	112,672	171	1,063	109,537	1,160
Fuels consumed: in						
Bituminous coal (tons of 2,000 pounds)	\$415,860	415,660	124	19,759	354,263	7,561
Fuel oils (barrels of 42 gallons)	\$19,494	19,215	1,303		13,665	290
Gasoline and kerosene (gallons)	\$599,333	599,333	150,369		159,798	124,943
Natural gas (thousands of cubic feet)	\$6,027,573	6,022,888	2,624,764	3,378,802	13,282	
Electric energy consumed (thousands of kw.-hrs.), total	\$665,055	664,761	823	6,799	651,766	17,045
Purchased	\$558,026	557,734	618	835	531,139	17,735
Generated by reporting companies	\$127,027	127,027	205	5,964	120,647	110

¹ The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

² Represents operations of 15 companies in the crude-petroleum and natural-gas industry, and 3 bituminous-coal mines.

³ 1 mine and 1 preparation plant in the foundry-sand industry are included under "all other" to avoid disclosure of confidential information.

⁴ Represents 1 rough-dimension sandstone quarry, 1 mine and 1 preparation plant in the foundry-sand industry, and 7 mines and 5 preparation plants in the natural-abrasives industry.

⁵ Companies with operations in more than 1 industry are counted only once in the totals.

WEST VIRGINIA

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TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WEST VIRGINIA, BY INDUSTRY: 1939—Continued

ITEM	PRODUCING OPERATIONS—Continued					Contract- service operations ¹	Nonproducing operations ²
	Sand and gravels		Clay and shale		All other ⁴		
	Common sand and gravel	Glass sand	Fire clay	Common clay and shale			
Number of operating companies ⁵ -----	14	3	7	13	8	43	18
Number of mines and quarries-----	18	3	7	10	9	-----	5
Number of oil and gas wells producing on December 31, 1939-----	-----	-----	-----	-----	-----	-----	-----
Number of preparation plants-----	18	3	3	1	6	-----	-----
Value of all products ⁶ -----	\$1,176,706	\$914,524	\$411,796	\$106,809	\$642,822	\$1,486,167	-----
Number of persons engaged, total-----	326	145	145	62	145	532	42
Wage earners (average for the year)-----	275	131	133	61	127	471	16
Number receiving pay during pay-roll period ending nearest the 15th of:							
January-----	249	125	130	56	88	414	4
February-----	217	128	128	50	83	370	3
March-----	225	126	128	54	86	399	15
April-----	282	134	129	60	122	541	16
May-----	306	138	126	60	142	496	26
June-----	295	140	129	71	149	471	6
July-----	286	135	126	60	159	499	16
August-----	297	123	128	73	166	506	12
September-----	265	129	130	71	148	561	16
October-----	304	127	152	70	149	543	16
November-----	263	134	141	52	144	587	37
December-----	271	131	145	51	102	557	17
Salaried employees-----	50	14	7	1	14	18	6
Proprietors and firm members-----	1	-----	5	-----	4	43	20
Performing manual labor-----	-----	-----	2	-----	-----	18	6
Principal expenses designated below, total-----	\$761,431	\$344,264	\$218,769	\$85,767	\$265,136	\$621,100	\$38,275
Wages-----	\$553,082	\$146,311	\$169,879	\$50,875	\$139,264	\$560,241	\$15,619
Salaries-----	\$114,009	\$16,960	\$11,962	\$1,296	\$21,500	\$44,122	\$1,024
Supplies and materials-----	\$156,666	\$64,569	\$30,162	\$6,555	\$68,950	\$39,618	\$9,474
Fuel-----	\$86,060	\$26,304	\$8,415	\$2,329	\$8,654	\$15,672	\$715
Purchased electric energy-----	\$18,814	\$49,100	\$5,927	\$2,053	\$47,768	\$1,250	\$3,614
Contract work-----	\$22,800	-----	-----	\$2,659	-----	(⁷)	\$41,531
Cost of buildings, machinery, and equipment erected or installed during year-----	\$100,861	\$44,477	\$18,675	\$878	\$16,034	\$4,500	\$15,538
Buildings-----	\$15,919	\$24,815	\$1,451	-----	-----	(⁷)	\$1,561
Machinery and equipment, total-----	\$86,962	\$19,662	\$17,224	\$878	\$16,034	(⁷)	\$13,977
Purchased in new condition-----	\$76,287	\$16,997	\$14,824	\$878	\$12,634	(⁷)	\$12,644
Purchased in used condition-----	\$10,675	\$2,665	\$2,400	-----	\$3,400	(⁷)	\$1,333
Number of man-hours worked by wage earners-----	701,260	252,760	247,883	115,616	245,727	760,870	28,942
Average hourly earning of wage earners-----	\$0.50	\$0.59	\$0.68	\$0.45	\$0.56	\$0.74	\$0.54
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	6,520	4,066	1,520	398	2,502	11,299	810
Per wage earner-----	31.0	31.2	9.9	5.9	19.7	24.0	80.6
Prime movers-----	6,701	558	635	245	589	11,294	85
Electric motors driven by purchased energy-----	1,819	5,528	485	113	1,954	65	725
Horsepower rating of electric motors driven by energy generated by reporting companies-----	583	-----	156	-----	-----	-----	-----
Fuels consumed: in							
Bituminous coal (tons of 2,000 pounds)-----	26,256	4,572	1,340	339	1,684	(⁷)	-----
Fuel oils (barrels of 42 gallons)-----	5,912	36	-----	-----	9	(⁷)	279
Gasoline and kerosene (gallons)-----	85,711	45,502	5,790	2,300	16,930	(⁷)	-----
Natural gas (thousands of cubic feet)-----	1,144	-----	-----	6,668	-----	(⁷)	4,695
Electric energy consumed (thousands of kw.-hrs.), total-----	638	3,397	219	108	3,151	(⁷)	292
Purchased-----	572	3,397	184	108	3,151	(⁷)	292
Generated by reporting companies-----	66	-----	35	-----	-----	(⁷)	-----

*Includes amounts received or due for contract services performed during the year.

*Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries were not asked to report expenditures for contract work, or to report separately the cost of buildings and of machinery and equipment.

*Excludes statistics for contract-service operations.

*Not available.

*No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WEST VIRGINIA, BY COUNTY: 1939

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Barbour	Berkeley	Boone	Braxton	Brooke	Cabell	Clay	Fayette	Gilmer	Grant
Number of operating companies	843	15	8	15	4	25	5	8	45	3	3
Number of mines and quarries	795	12	6	19	4	27	4	6	58	2	3
Number of preparation plants	239		3	2		2	3	2	5	1	
Value of all products	\$199,759,861	\$2,342,028	\$1,086,502	\$5,626,107	\$35,951	\$2,715,900	\$354,263	\$1,512,948	\$22,506,072	\$20,398	\$58,570
Number of persons engaged, total	101,070	1,429	411	3,041	32	950	126	671	11,716	45	61
Wage earners (average for the year)	96,585	1,351	394	2,916	26	887	86	654	11,898	59	57
Salaried employees	4,228	55	17	125	3	59	40	28	422	2	2
Proprietors and firm members	517	3		2	5	24		9	8	2	2
Performing manual labor	806	1		2	5	22		6	7	2	2
Principal expenses designated below, total	\$165,205,791	\$1,885,967	\$887,595	\$4,905,402	\$29,221	\$1,910,352	\$380,557	\$1,552,195	\$19,174,249	\$35,178	\$50,062
Wages	\$122,558,895	\$1,558,548	\$498,062	\$5,708,475	\$23,615	\$1,272,353	\$65,082	\$989,551	\$14,585,914	\$22,765	\$45,070
Salaries	\$9,447,795	\$62,361	\$21,460	\$281,499	\$2,628	\$71,895	\$12,584	\$110,053	\$1,068,886	\$1,415	\$1,320
Supplies and materials	\$24,493,115	\$216,095	\$225,554	\$537,983	\$2,951	\$448,531	\$28,046	\$225,488	\$2,436,478	\$8,415	\$4,985
Fuel	\$1,396,885	\$1,967	\$19,319	\$4,005	\$30	\$22,998	\$20,885	\$25,479	\$48,961	\$1,069	\$756
Purchased electric energy	\$7,128,799	\$68,855	\$111,881	\$221,629	\$17	\$68,302	\$1,180	\$2,642	\$900,080	\$1,516	\$201
Contract work	\$382,324	\$130		\$155,831		\$6,275	\$22,800		\$40,150		
Cost of buildings, machinery, and equipment erected or installed during year	\$6,555,240	\$53,868	\$21,851	\$519,316	\$500	\$180,860	\$12,853	\$82,585	\$803,280		\$571
Buildings	\$962,701	\$8,554	\$4,282	\$64,988	\$100	\$25,337		\$500	\$42,865		
Machinery and equipment	\$7,392,539	\$25,529	\$17,569	\$454,348	\$400	\$127,523	\$12,853	\$81,885	\$759,415		\$571
Horsepower rating of prime movers and electric motors driven by purchased energy, total	821,180	5,288	9,116	28,945	85	13,113	2,335	4,142	97,507	451	55
Prime movers	155,358	150	2,239	281	55	2,926	2,210	5,731	8,749	29	50
Electric motors driven by purchased energy	667,824	5,138	6,877	28,664	30	10,187	125	361	88,758	422	5
Horsepower rating of electric motors driven by energy generated by reporting companies	112,501	110		35			80	4,351	10,268		
Fuels consumed: a											
Bituminous coal (tons of 2,000 pounds)	415,756	106	3,707	1,247		1,857	4,525	23,486	28,284		75
Fuel oils (barrels of 42 gallons)	17,912	423	12	17	5	6,520		14	78	4	59
Gasoline and kerosene (gallons)	458,964	40	31,678	8,155	56	55,444	1,000	179	22,791	44	1,772
Natural gas (thousands of cubic feet)	5,398,094						60,857	45,940	8,191	8,514	
Electric energy consumed (thousands of kw.-hrs.), total	683,956	4,510	11,448	15,456	1	7,512	70	8,262	82,864	29	7
Purchased	567,113	4,110	11,448	15,425	1	7,512	28	110	77,649	29	7
Generated by reporting companies	116,822	400		51			42	8,152	5,215		

ITEM	Green-brier	Hancock	Harrison	Jackson	Jafferson	Kanawha	Lewis	Logan	McDowell	Marion	Marshall
Number of operating companies	24	12	32	4	4	49	5	38	50	22	5
Number of mines and quarries	24	12	31	2	5	54	2	60	73	27	5
Number of preparation plants	5	3	4	3	4	22	4	16	32	3	
Value of all products	\$5,076,590	\$658,784	\$5,416,163	\$266,692	\$799,320	\$13,090,195	\$152,640	\$23,822,153	\$37,403,555	\$12,774,576	\$1,006,840
Number of persons engaged, total	1,859	259	2,816	36	333	6,851	58	11,265	18,581	8,564	535
Wage earners (average for the year)	1,783	215	2,454	36	253	6,432	54	10,763	17,871	6,199	520
Salaried employees	65	17	165		20	587	1	550	689	348	10
Proprietors and firm members	10	9	17			12	5	2	21	17	5
Performing manual labor	6	4	20			6	3	1	16	12	
Principal expenses designated below, total	\$2,541,720	\$585,039	\$4,472,316	\$95,968	\$810,761	\$10,911,403	\$90,788	\$17,825,426	\$30,365,632	\$11,760,454	\$745,113
Wages	\$1,895,881	\$265,812	\$5,363,564	\$42,792	\$572,654	\$7,721,410	\$44,761	\$12,870,487	\$22,998,231	\$9,726,244	\$599,101
Salaries	\$153,016	\$55,119	\$274,806	\$42,792	\$29,334	\$655,401	\$1,891	\$1,125,783	\$1,560,312	\$689,450	\$4,885
Supplies and materials	\$325,552	\$54,049	\$611,164	\$24,684	\$152,096	\$1,849,445	\$14,499	\$2,988,565	\$4,580,565	\$1,637,428	\$35,680
Fuel	\$16,650	\$22,584	\$47,396	\$28,492	\$9,817	\$243,305	\$28,839	\$15,284	\$205,958	\$79,415	\$5,184
Purchased electric energy	\$148,465	\$7,735	\$168,992		\$48,850	\$438,117	\$909	\$801,561	\$981,207	\$447,284	\$42,403
Contract work	\$5,456		\$8,294			\$4,725		\$26,198	\$37,259	\$357	
Cost of buildings, machinery, and equipment erected or installed during year	\$128,363	\$50,324	\$457,674	\$37,754	\$20,602	\$484,859	\$1,854	\$1,027,566	\$852,858	\$549,060	\$51,094
Buildings	\$17,005	\$8,451	\$81,587			\$79,812		\$88,839	\$57,191	\$9,350	
Machinery and equipment	\$111,361	\$41,873	\$376,087	\$37,754	\$20,602	\$384,847	\$1,854	\$980,827	\$795,667	\$539,700	\$51,094
Horsepower rating of prime movers and electric motors driven by purchased energy, total	15,473	3,185	15,240	990	4,191	58,857	210	97,701	127,494	47,636	7,223
Prime movers	2,088	2,415	1,855	990	564	15,472	210	12,730	43,099	9,400	855
Electric motors driven by purchased energy	13,405	770	13,385		3,627	43,385		84,971	84,395	38,236	6,368
Horsepower rating of electric motors driven by energy generated by reporting companies		215	1,057			2,013		14,274	41,463	50	
Fuels consumed: a											
Bituminous coal (tons of 2,000 pounds)	3,297	1,448	4,303	2,508	458	9,908		27,429	120,914	41,968	2,584
Fuel oils (barrels of 42 gallons)	42	4,942	143		3	107	45	39	109	9	102
Gasoline and kerosene (gallons)	25,159	32,087	873		51,807	3,328	523	3,003	4,119	21,580	1,129
Natural gas (thousands of cubic feet)			186,482	102,953		1,350,141	145,080	800		96,655	
Electric energy consumed (thousands of kw.-hrs.), total	8,134	571	12,195	35	4,348	53,124	64	86,468	143,701	39,255	2,405
Purchased	8,134	545	11,101		4,348	27,948	38	71,679	85,655	39,080	2,405
Generated by reporting companies		228	1,094	35		5,176	26	14,789	57,848	175	

a Companies with operations in more than 1 county are counted only once in the totals.

* No anthracite was reported consumed.

WEST VIRGINIA

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WEST VIRGINIA, BY COUNTY: 1939—Continued
(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	Mason	Mercer	Mineral	Mingo	Monongalia	Nicholas	Ohio	Pleasants	Preston	Putnam	Raleigh
Number of operating companies ¹	13	15	10	16	49	18	12	6	32	5	55
Number of mines and quarries	11	18	9	21	47	18	13	3	33	6	78
Number of preparation plants	1	12	1	5	14	—	2	5	1	—	26
Value of all products	\$284,309	\$5,468,238	\$418,524	\$4,910,444	\$9,446,909	\$86,112	\$2,569,066	\$48,855	\$1,125,440	\$1,406,868	\$24,621,114
Number of persons engaged, total	209	3,407	380	2,977	3,888	92	1,321	28	896	988	12,417
Wage earners (average for the year)	194	3,317	353	2,853	3,682	73	1,258	24	842	934	12,001
Salaried employees	8	165	23	124	181	—	52	1	31	32	402
Proprietors and firm members	7	5	4	—	25	19	11	3	23	2	14
Performing manual labor	7	—	3	—	16	14	9	—	17	1	9
Principal expenses designated below, total	\$219,107	\$4,764,491	\$377,641	\$4,454,709	\$7,826,026	\$59,115	\$2,266,640	\$45,223	\$862,817	\$1,333,966	\$21,331,355
Wages	\$170,330	\$3,472,779	\$310,244	\$3,363,771	\$5,279,618	\$49,666	\$1,740,619	\$26,720	\$656,544	\$955,800	\$16,280,490
Salaries	\$7,890	\$426,937	\$19,839	\$235,421	\$341,247	—	\$95,401	\$1,800	\$42,726	\$67,096	\$1,082,479
Supplies and materials	\$16,534	\$626,567	\$35,579	\$590,336	\$1,680,819	\$7,280	\$309,298	\$11,086	\$121,259	\$238,582	\$2,901,335
Fuel	\$17,583	\$2,879	\$525	\$698	\$17,713	\$895	\$6,906	\$5,617	\$4,010	\$1,955	\$78,320
Purchased electric energy	\$6,970	\$231,011	\$9,754	\$255,027	\$525,610	\$355	\$114,416	—	\$30,165	\$70,231	\$957,246
Contract work	—	\$4,518	\$5,700	\$9,464	\$1,019	\$918	—	—	\$8,113	—	\$31,485
Cost of buildings, machinery, and equipment erected or installed during year	\$11,455	\$145,634	\$869	\$154,591	\$878,117	\$5,142	\$111,158	—	\$78,994	\$4,047	\$836,373
Buildings	—	\$24,433	\$300	\$35,538	\$147,681	\$50	\$1,978	—	\$21,692	\$1,155	\$13,412
Machinery and equipment	\$11,455	\$121,201	\$569	\$119,053	\$830,436	\$5,092	\$109,180	—	\$57,302	\$2,892	\$724,961
Horsepower rating of prime movers and electric motors driven by purchased energy, total	1,809	25,699	2,321	21,871	43,175	199	11,810	1,368	7,050	7,776	97,766
Prime movers	1,261	685	121	830	876	199	684	1,368	4,978	540	8,477
Electric motors driven by purchased energy	548	25,014	2,200	21,041	42,300	—	11,126	—	2,072	7,136	91,289
Horsepower rating of electric motors driven by energy generated by reporting companies	65	—	—	—	35	30	339	38	2,295	—	18,197
Fuels consumed: ²											
Bituminous coal (tons of 2,000 pounds)	10,749	819	193	158	886	39	1,844	750	461	201	51,211
Fuel oils (barrels of 42 gallons)	719	9	11	—	325	136	159	280	247	379	64
Gasoline and kerosene (gallons)	3,680	5,994	953	—	23,019	1,594	16,912	2,200	5,066	5,013	4,800
Natural gas (thousands of cubic feet)	—	—	—	—	73,861	—	750	23,848	8	—	—
Electric energy consumed (thousands of kw.-hrs.), total	412	15,239	461	16,501	40,788	55	7,929	25	1,877	4,489	91,055
Purchased	372	15,229	461	16,501	40,757	28	7,807	—	1,498	4,489	78,743
Generated by reporting companies	40	—	—	—	31	27	122	25	379	—	12,312

ITEM	Randolph	Ritchie	Taylor	Tucker	Tyler	Upshur	Wayne	Webster	Wetzel	Wood	Wyoming	All other ³
Number of operating companies ¹	20	5	13	4	6	7	4	8	8	5	17	7
Number of mines and quarries	19	—	14	7	—	7	4	10	1	6	17	5
Number of preparation plants	1	12	1	1	9	—	1	—	10	7	5	11
Value of all products	\$1,942,922	\$32,877	\$691,325	\$1,137,032	\$35,432	\$101,470	\$55,810	\$2,154,917	\$1,186,988	\$261,398	\$5,526,245	\$1,150,643
Number of persons engaged, total	1,178	43	562	523	50	89	42	1,072	192	75	2,955	222
Wage earners (average for the year)	1,117	43	533	498	49	79	33	1,041	171	65	2,868	213
Salaried employees	36	—	20	25	1	5	6	28	21	10	112	4
Proprietors and firm members	23	—	9	—	—	5	3	5	—	—	3	5
Performing manual labor	11	—	7	—	—	4	1	2	—	—	3	1
Principal expenses designated below, total	\$1,667,026	\$76,022	\$652,947	\$847,086	\$76,781	\$99,011	\$45,321	\$1,694,058	\$570,544	\$232,810	\$4,873,018	\$472,725
Wages	\$1,328,654	\$58,641	\$511,519	\$675,630	\$31,651	\$77,671	\$31,302	\$1,412,596	\$214,469	\$103,149	\$3,655,224	\$211,013
Salaries	\$69,480	—	\$46,780	\$39,566	\$10,278	\$8,182	\$5,727	\$39,398	\$46,202	\$22,021	\$289,754	\$10,980
Supplies and materials	\$226,996	\$21,424	\$57,174	\$104,503	\$11,011	\$10,395	\$6,229	\$166,678	\$144,367	\$56,472	\$711,785	\$105,223
Fuel	\$26,396	\$15,957	\$546	\$21,580	\$23,841	\$2,716	\$885	\$5,164	\$157,259	\$42,580	\$42,175	\$76,266
Purchased electric energy	\$14,691	—	\$36,928	\$5,827	—	\$47	\$1,078	\$63,327	\$8,227	\$8,608	\$168,547	\$69,243
Contract work	\$829	—	—	—	—	—	—	\$6,987	—	—	\$7,537	—
Cost of buildings, machinery, and equipment erected or installed during year	\$47,647	—	\$2,850	\$33,947	\$467	\$2,080	—	\$104,788	\$18,893	\$11,080	\$489,457	\$58,561
Buildings	\$16,283	—	\$2,850	—	—	\$1,000	—	\$18,525	\$2,250	—	\$75,008	\$24,815
Machinery and equipment	\$31,364	—	—	\$33,947	\$467	\$1,080	—	\$86,263	\$16,643	\$11,080	\$414,449	\$33,746
Horsepower rating of prime movers and electric motors driven by purchased energy, total	6,925	1,616	4,567	5,975	620	383	925	10,466	2,683	2,572	21,452	4,913
Prime movers	4,688	1,616	380	5,648	620	383	725	794	2,279	1,678	5,740	1,230
Electric motors driven by purchased energy	2,337	—	4,187	328	—	—	200	9,672	404	694	15,712	3,683
Horsepower rating of electric motors driven by energy generated by reporting companies	4,325	—	—	6,703	—	605	—	947	376	465	4,179	—
Fuels consumed: ²												
Bituminous coal (tons of 2,000 pounds)	13,442	—	163	10,856	—	508	204	2,137	17,200	3,417	17,652	4,954
Fuel oils (barrels of 42 gallons)	52	—	16	10	—	13	85	15	179	2,401	54	105
Gasoline and kerosene (gallons)	2,803	—	1,683	—	—	161	1,016	178	1,004	44,685	7,514	65,804
Natural gas (thousands of cubic feet)	—	184,524	—	930	192,923	2,880	—	—	492,997	68,991	—	355,969
Electric energy consumed (thousands of kw.-hrs.), total	2,315	7	2,172	5,692	—	222	36	5,208	1,959	331	21,721	5,219
Purchased	711	—	2,172	131	—	4	36	4,526	637	296	10,496	5,200
Generated by reporting companies	1,604	7	—	5,561	—	218	—	682	1,322	35	11,225	19

¹ Companies with operations in more than 1 county are counted only once in the totals.² No anthracite was reported consumed.³ Doddridge, Hardy, Lincoln, Morgan, Pendleton, and Roane.

WISCONSIN

Wisconsin ranked thirty-fourth among the States in value of products of mineral industries in 1939, and thirty-fifth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in 1939 and 1929, the 1939 value of products was 62 percent of that in 1929, and the number of wage earners 71 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 59 percent of that in 1919, and the number of wage earners 48 percent. Differences between totals for 1939 and the two previous census years are accounted for largely by declines in the iron-ore and zinc-ore industries. Total horsepower rating

of power equipment at mineral operations in 1939 was 108 percent of that in 1929, and 180 percent of that in 1919.

The metallic-ores industries, principally iron ore and zinc ore, accounted for 42 percent of the total value of products for the State, and for 38 percent of the total number of wage earners employed. (See table 2.) Wisconsin ranked second among all States in value of products in the crushed and broken sandstone industry. (See report for this industry.)

Other mineral industries in the State were limestones, granite, basalt, sandstone (rough dimension), common sand and gravel, foundry sand, and common clay and shale. Mineral operations were located in 47 counties in 1939; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

¹ Statements in this text refer to producing operations only; no contract-service operations were classified in the State in 1939, and for nonproducing operations only 1 central office was reported. (See table 2.)

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN WISCONSIN: 1939, 1929, AND 1919
(For producing operations only)

ITEM	1939 (All industries)	1929 AND 1929 (Excluding the common clay and shale industry)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1939	1929	1939 ¹	1919
Number of mines and quarries-----	155	149	161	91	107
Value of all products-----	\$8,178,341	\$8,142,699	\$13,163,414	\$6,150,646	\$10,497,031
Number of persons engaged, total-----	2,396	2,379	3,333	1,893	3,869
Wage earners (average for the year)-----	2,083	2,076	2,907	1,700	5,547
Salaried employees-----	229	229	394	152	294
Proprietors and firm members-----	74	74	42	41	48
Performing manual labor-----	34	34	(*)	20	19
Principal expenses designated below, total-----	\$5,069,123	\$5,040,358	\$7,827,897	\$3,932,290	\$8,246,618
Wages-----	\$2,803,595	\$2,581,755	\$4,251,451	\$2,097,854	\$4,750,235
Salaries-----	\$513,293	\$513,293	\$897,128	\$355,307	\$618,115
Supplies and materials-----	\$1,078,383	\$1,078,128	\$1,658,004	\$903,348	\$1,885,710
Fuel-----	\$365,342	\$361,528	\$267,736	\$169,570	\$309,187
Purchased electric energy-----	\$490,815	\$490,555	\$717,982	\$406,204	\$548,078
Contract work-----	\$17,895	\$17,081	\$57,598	\$11,429	\$135,293
Cost of machinery and equipment installed during year-----	\$413,013	\$413,013	\$685,133	\$324,063	(*)
Horsepower rating of power equipment, total-----	72,806	72,706	67,240	48,101	26,766
Per wage earner-----	34.8	35.0	23.1	28.3	7.5
Prime movers-----	30,078	29,988	17,869	13,733	7,704
Electric motors driven by purchased energy-----	42,728	42,718	49,371	34,368	19,062
Electric energy consumed (thousands of kw.-hrs.), total-----	30,102	29,705	40,129	26,240	(*)
Purchased-----	29,357	29,358	40,077	26,116	(*)
Generated by reporting companies-----	745	348	52	124	(*)

¹ Includes 2 mines and 2 preparation plants in the foundry-sand industry. Also includes 8 limestone quarries, with products valued at \$122,591, operated in conjunction with lime plants. Such operations were not included in the census of mineral industries for 1919.

* Not available.

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WISCONSIN, BY INDUSTRY: 1939

(For producing operations only):

ITEM	Total	Metallic ores ¹	STONE ²				Common sand and gravel	Common clay and shale	All other ⁴
			Crushed and broken		Rough dimension				
			Limestone	Sandstone	Limestone	Granite			
Number of operating companies ⁵ -----	131	7	37	4	14	11	52	4	6
Number of mines and quarries-----	155	7	49	4	14	11	58	4	6
Number of preparation plants-----	126	5	46	2	9	1	59	1	3
Value of all products ⁶ -----	\$8,176,341	\$5,461,233	\$1,160,450	\$460,629	\$474,063	\$304,695	\$1,992,053	\$33,642	\$289,578
Number of persons engaged, total-----	72,396	263	441	138	244	120	486	17	80
Wage earners (average for the year)-----	2,093	800	374	132	217	110	376	17	67
Number receiving pay during pay-roll period ending nearest the 15th of:									
January-----	1,542	780	214	99	157	104	187	7	14
February-----	1,553	750	228	95	157	107	194	7	17
March-----	1,625	741	288	96	172	103	213	8	26
April-----	1,885	753	340	95	198	104	334	17	44
May-----	2,160	765	381	170	231	116	425	19	53
June-----	2,517	786	470	147	227	115	472	19	61
July-----	2,445	810	491	141	241	116	516	21	107
August-----	2,477	824	493	141	265	111	511	21	111
September-----	2,444	827	458	141	268	119	500	21	112
October-----	2,414	846	449	166	236	114	472	21	108
November-----	2,511	865	415	157	231	112	390	23	96
December-----	1,940	838	286	141	221	102	305	18	29
Salaried employees-----	7229	60	43	8	18	9	77	-----	9
Proprietors and firm members-----	74	3	24	-----	9	1	33	-----	4
Performing manual labor-----	34	-----	14	-----	6	-----	14	-----	-----
Principal expenses designated below, total-----	\$75,069,123	\$2,087,247	\$842,338	\$357,388	\$337,592	\$165,714	\$1,108,048	\$28,785	\$126,900
Wages-----	\$2,805,595	\$1,132,598	\$395,314	\$137,210	\$264,584	\$103,918	\$483,921	\$21,840	\$64,210
Salaries-----	\$7,513,295	\$185,189	\$81,040	\$14,619	\$23,952	\$35,865	\$159,398	-----	\$22,131
Supplies and materials-----	\$1,078,385	\$485,014	\$178,794	\$193,014	\$21,548	\$8,460	\$172,780	\$2,257	\$19,516
Fuel-----	\$365,342	\$18,948	\$105,183	\$4,977	\$13,667	\$7,058	\$201,958	\$5,614	\$9,781
Purchased electric energy-----	\$490,615	\$289,500	\$78,200	\$3,249	\$11,302	\$11,691	\$84,351	\$80	\$12,262
Contract work-----	\$17,895	-----	\$5,627	\$4,319	\$2,539	\$744	\$5,652	\$814	-----
Cost of buildings, machinery, and equipment erected or installed during year-----	\$440,164	\$223,272	\$75,808	\$294	\$17,397	\$8,347	\$91,556	-----	\$23,499
Buildings-----	\$27,151	\$5,381	\$3,584	-----	\$2,890	\$1,548	\$2,608	-----	\$11,534
Machinery and equipment, total-----	\$413,013	\$217,891	\$72,415	\$294	\$14,507	\$6,801	\$88,950	-----	\$12,155
Purchased in new condition-----	\$334,355	\$195,404	\$65,240	\$294	\$7,781	\$5,978	\$50,761	-----	\$8,919
Purchased in used condition-----	\$78,658	\$22,487	\$7,175	-----	\$6,726	\$825	\$38,189	-----	\$3,236
Number of man-hours worked by wage earners-----	4,176,893	1,801,396	743,147	249,886	404,759	202,426	610,691	33,124	131,464
Average hourly earning of wage earners-----	\$0.62	\$0.71	\$0.53	\$0.55	\$0.65	\$0.51	\$0.80	\$0.66	\$0.49
Horsepower rating of prime movers and electric motors driven by purchased energy, total-----	72,806	21,028	15,364	1,006	3,179	3,224	24,605	100	4,307
Per wage earner-----	34.8	28.3	41.1	7.6	14.8	29.3	85.4	5.9	64.3
Prime movers-----	30,078	690	6,578	803	2,147	1,647	16,255	90	1,868
Electric motors driven by purchased energy-----	42,728	20,338	8,786	203	1,032	1,577	8,350	10	2,439
Horsepower rating of electric motors driven by energy generated by reporting companies-----	1,205	-----	-----	-----	-----	285	625	295	-----
Fuels consumed: ⁷									
Anthracite (tons of 2,000 pounds)-----	298	-----	3	-----	1	7	285	-----	-----
Bituminous coal (tons of 2,000 pounds)-----	17,323	2,310	2,482	364	150	247	10,276	679	835
Fuel oils (barrels of 42 gallons)-----	9,292	1,085	1,686	4,362	106	570	1,238	-----	221
Gasoline and kerosene (gallons)-----	1,542,863	17,604	536,914	875	77,697	4,990	871,422	8,290	25,071
Electric energy consumed (thousands of kw.-hrs.), total-----	50,102	20,935	3,797	140	367	483	3,465	397	518
Purchased-----	29,357	20,935	3,797	140	367	359	3,240	1	518
Generated by reporting companies-----	745	-----	-----	-----	-----	124	225	396	-----

¹ In addition, 1 central office associated with nonproducing operations in the iron-ore industry was reported; no contract-service operations were classified in the State.

² Represents 2 iron-ore mines, 4 mines and 4 mills in the zinc-ore industry, and 1 mine and 1 mill in the molybdenum-ore industry.

³ One crushed and broken granite quarry, 1 quarry and 1 crushing plant in the crushed and broken basalt industry, and 2 rough-dimension sandstone quarries are included under "All other" to avoid disclosure of confidential information.

⁴ Represents 1 crushed and broken granite quarry, 1 quarry and 1 crushing plant in the crushed and broken basalt industry, 2 rough-dimension sandstone quarries, and 2 mines and 2 preparation plants in the foundry-sand industry.

⁵ Companies with operations in more than 1 industry are counted only once in the totals.

⁶ Includes amounts received or due for contract services performed during the year.

⁷ Includes statistics for central-office employees in the lode-gold industry and at central offices not classified by industry.

⁸ No natural gas was reported consumed.

MINERAL INDUSTRIES

TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WISCONSIN, BY COUNTY: 1939

(For producing operations only)

ITEM	State	Ashland	Brown	Dane	Dodge	Fond du Lac	Grant	Iowa	Manitowoc	Marathon
Number of operating companies ¹	131	3	6	3	4	6	3	4	7	7
Number of mines and quarries	153	3	7	3	4	6	3	4	7	7
Number of preparation plants	126	1	6	2	3	5	3	3	7	1
Value of all products	\$8,176,341	\$44,696	\$60,091	\$103,824	\$70,330	\$150,081	\$41,640	\$46,440	\$100,687	\$465,464
Number of persons engaged, total	2,396	29	38	27	58	69	27	32	43	116
Wage earners (average for the year)	2,093	28	29	23	49	60	24	28	37	111
Salaried employees	229	1	2	2	8	7	—	1	2	6
Proprietors and firm members	74	—	7	2	1	2	3	3	4	2
Performing manual labor	54	—	5	—	1	2	3	1	2	—
Principal expenses designated below, total	\$5,069,123	\$40,444	\$47,799	\$71,689	\$58,753	\$102,780	\$34,104	\$42,617	\$76,165	\$339,502
Wages	\$2,605,595	\$28,100	\$26,961	\$34,768	\$31,471	\$53,552	\$16,562	\$22,529	\$41,322	\$114,785
Salaries	\$513,293	\$2,090	\$1,950	\$10,905	\$9,241	\$13,454	—	\$600	\$2,632	\$10,950
Supplies and materials	\$1,079,333	\$4,663	\$6,974	\$10,991	\$4,016	\$12,025	\$6,289	\$9,000	\$9,888	\$181,388
Fuel	\$365,342	\$2,096	\$10,379	\$10,221	\$9,717	\$6,657	\$11,253	\$8,424	\$14,775	\$9,877
Purchased electric energy	\$490,615	\$5,485	\$1,815	\$2,820	\$4,197	\$5,561	—	\$4,064	\$6,498	\$5,882
Contract work	\$17,896	—	—	\$1,994	\$111	\$1,931	—	—	\$600	\$744
Cost of buildings, machinery, and equipment erected or installed during year	\$440,164	—	\$9,800	\$1,275	\$2,809	\$4,736	\$3,998	\$17,350	\$28,050	\$4,170
Buildings	\$27,151	—	—	—	\$400	\$385	—	—	—	\$94
Machinery and equipment	\$413,013	—	\$9,800	\$1,275	\$2,209	\$4,351	\$3,998	\$17,350	\$28,050	\$4,076
Horsepower rating of prime movers and electric motors driven by purchased energy, total	72,806	795	1,736	1,128	627	1,846	528	972	1,520	2,197
Prime movers	30,078	605	1,906	918	240	1,504	528	595	1,025	1,338
Electric motors driven by purchased energy	42,728	190	180	210	387	342	—	377	495	859
Horsepower rating of electric motors driven by energy generated by reporting companies	1,205	125	—	100	—	—	—	—	295	—
Fuels consumed: ²										
Anthracite (tons of 2,000 pounds)	296	—	—	3	—	—	—	—	—	135
Bituminous coal (tons of 2,000 pounds)	17,523	110	46	—	61	5	—	14	538	17
Fuel oils (barrels of 42 gallons)	5,292	570	67	135	14	50	57	—	—	1,300
Gasoline and kerosene (gallons)	1,542,863	520	64,575	64,031	25,015	50,875	74,442	41,000	78,593	7,134
Electric energy consumed (thousands of kw.-hrs.), total	30,102	169	16	134	152	94	—	182	597	206
Purchased	29,357	152	16	113	152	94	—	182	201	206
Generated by reporting companies	745	16	—	21	—	—	—	—	396	—

ITEM	Marinette	Milwaukee	Outagamie	Oshkosh	Rock	Sauk	Sheboygan	Waukesha	Waupaca	Winnebago	All other ³
Number of operating companies ¹	3	6	5	4	3	5	3	20	3	6	36
Number of mines and quarries	3	5	5	4	3	8	4	22	3	6	45
Number of preparation plants	2	6	5	4	3	7	4	17	2	6	39
Value of all products	\$28,529	\$195,404	\$56,505	\$97,522	\$172,455	\$300,170	\$71,369	\$930,301	\$25,300	\$216,922	\$4,964,611
Number of persons engaged, total	19	74	24	28	89	112	23	332	10	64	1,230
Wage earners (average for the year)	14	48	16	23	29	105	19	283	8	49	1,110
Salaried employees	4	24	3	4	8	3	4	36	—	12	103
Proprietors and firm members	1	2	5	1	2	4	—	13	2	3	17
Performing manual labor	—	—	—	—	—	—	—	6	2	3	9
Principal expenses designated below, total	\$28,909	\$155,518	\$46,456	\$80,016	\$96,559	\$183,409	\$52,386	\$569,635	\$7,691	\$130,486	\$2,924,203
Wages	\$16,833	\$69,591	\$21,368	\$28,033	\$40,826	\$121,554	\$22,873	\$363,258	\$4,960	\$53,782	\$1,497,739
Salaries	\$4,510	\$49,835	\$5,200	\$6,300	\$22,865	\$7,389	\$12,125	\$58,796	—	\$22,643	\$263,718
Supplies and materials	\$1,878	\$11,006	\$5,603	\$6,778	\$11,700	\$21,464	\$7,293	\$57,194	\$1,115	\$18,128	\$678,922
Fuel	\$2,239	\$11,690	\$12,396	\$6,806	\$10,070	\$25,424	\$5,140	\$38,018	\$1,616	\$26,374	\$144,160
Purchased electric energy	\$1,449	\$16,398	\$3,869	\$9,350	\$10,865	\$3,249	\$6,955	\$46,538	—	\$9,464	\$546,108
Contract work	—	—	—	\$269	\$253	\$4,319	—	\$3,831	—	\$105	\$5,556
Cost of buildings, machinery, and equipment erected or installed during year	\$9,900	\$2,800	\$1,835	—	\$7,701	\$36,294	\$5,250	\$42,158	—	\$4,400	\$259,668
Buildings	\$700	—	—	—	—	\$499	\$13,334	—	—	—	\$11,759
Machinery and equipment	\$9,200	\$2,800	\$1,835	—	\$7,701	\$36,294	\$2,751	\$28,824	—	\$4,400	\$248,099
Horsepower rating of prime movers and electric motors driven by purchased energy, total	611	2,110	651	1,603	2,237	1,668	1,252	8,252	160	1,954	40,761
Prime movers	441	539	548	687	1,212	1,465	202	4,081	160	1,174	11,212
Electric motors driven by purchased energy	170	1,571	308	916	1,025	208	1,050	4,171	—	780	29,549
Horsepower rating of electric motors driven by energy generated by reporting companies	—	—	—	—	—	—	—	225	—	—	460
Fuels consumed: ²											
Anthracite (tons of 2,000 pounds)	—	—	—	—	—	—	—	152	—	—	8
Bituminous coal (tons of 2,000 pounds)	158	12	19	3	245	364	—	506	262	421	14,540
Fuel oils (barrels of 42 gallons)	33	42	—	—	50	3,193	—	1,667	32	30	1,882
Gasoline and kerosene (gallons)	7,708	74,990	78,055	45,873	68,339	161,244	16,510	187,783	2,500	153,377	340,519
Electric energy consumed (thousands of kw.-hrs.), total	47	846	134	364	468	140	192	2,203	—	209	23,950
Purchased	47	846	134	364	468	140	192	2,179	—	209	23,642
Generated by reporting companies	—	—	—	—	—	—	—	24	—	—	286

¹ Companies with operations in more than 1 county are counted only once in the totals.² No natural gas was reported consumed.³ Barron, Buffalo, Calumet, Chippewa, Columbia, Crawford, Door, Dunn, Eau Claire, Iron, Jackson, Kenosha, La Crosse, Lafayette, Lincoln, Marinette, Monroe, Pierce, Polk, Portage, Price, Racine, Richland, St. Croix, Trempealeau, Walworth, Washington, and Waushara.

WYOMING

Wyoming ranked twentieth among the States in value of products of mineral industries in 1939, and twenty-fifth in number of wage earners employed.¹ (See table 2, General Summary.) For industries canvassed in both 1939 and 1929, the 1939 value of products was 70 percent of that in 1929, and the number of wage earners 85 percent. (See table 1.) For industries covered in both 1939 and 1919, the 1939 value of products was 85 percent of that in 1919, and the number of wage earners 59 percent. Differences between the totals for 1939 and the two previous census years are accounted for largely by decreases in the bituminous-coal industry. Total horsepower rating of power equipment at mineral operations in 1939 was 123 percent of that in 1929, and 171 percent of that in 1919.

¹ Statements in this text refer to producing operations only; for statistics of contract-service and nonproducing operations see table 2.

The crude-petroleum and natural-gas industry accounted for 59 percent of the total value of products for the State, and for 18 percent of the total number of wage earners. (See table 2.) The bituminous-coal industry employed 71 percent of the wage earners reported, and ranked second in value of products, with 31 percent of the total. Wyoming ranked first among all States in the value of products in the bentonite industry, accounting for 45 percent of the total value of products of the industry. (See report for this industry.)

Other mineral industries in the State were natural gasoline, iron ore, placer gold, crushed and broken limestone, common sand and gravel, common clay and shale, feldspar, gypsum, natural sodium compounds, and vermiculite. Mineral operations (other than oil and gas wells) were located in 19 counties in 1929; principal statistics by county are shown in table 3, and number of operating companies, mines and quarries, and preparation plants by county and industry in Appendix A.

TABLE 1.—COMPARATIVE STATISTICS FOR MINERAL INDUSTRIES IN WYOMING: 1939, 1929, AND 1919

(For producing operations only)

ITEM	1939 (All industries)	1939 AND 1929 (Excluding the crude-petroleum and natural-gas and the natural-gasoline industries)		1939 AND 1919 (Excluding the common clay and shale and common sand and gravel industries)	
		1939:	1929	1939:	1919
Number of mines and quarries-----	89	89	73	85	87
Number of oil and gas wells producing at end of year-----	2,673			2,673	1,084
Number of natural-gasoline plants-----	7			7	5
Value of all products-----	\$36,647,909	\$13,104,255	\$18,017,045	\$36,461,436	\$41,854,507
Number of persons engaged, total-----	6,594	4,835	5,552	6,364	10,273
Wage earners (average for the year)-----	5,705	4,509	5,282	5,879	9,899
Salaries employees-----	619	285	245	617	555
Proprietors and firm members-----	70	81	24	88	19
Performing manual labor-----	48	47	(³)	48	7
Principal expenses designated below, total-----	\$15,582,284	\$8,833,395	\$13,216,280	\$15,544,229	\$24,100,579
Wages-----	\$7,031,940	\$5,893,758	\$9,863,759	\$7,909,013	\$14,576,415
Salaries-----	\$1,477,655	\$748,284	\$630,643	\$1,474,955	\$1,386,929
Supplies and materials-----	\$2,204,259	\$1,650,787	\$2,114,512	\$2,200,152	\$6,348,488
Fuel-----	\$398,285	\$219,711	\$420,379	\$382,244	\$782,272
Purchased electric energy-----	\$421,655	\$283,223	\$354,462	\$419,355	\$310,515
Contract work-----	\$3,168,510	\$39,634	\$32,521	\$3,168,510	\$715,960
Cost of machinery and equipment installed during year-----	\$2,094,717	\$494,318	\$518,154	\$2,087,610	(³)
Horsepower rating of power equipment, total-----	108,422	62,729	50,855	107,007	62,757
Per wage earner-----	19.0	13.9	9.6	18.8	6.5
Prime movers-----	85,082	31,192	28,144	83,872	48,817
Electric motors driven by purchased energy-----	43,560	31,537	22,711	43,035	13,940
Electric energy consumed (thousands of kw.-hrs.), total-----	83,393	48,231	63,600	64,300	(³)
Purchased-----	25,288	13,783	13,186	25,198	(³)
Generated by reporting companies-----	38,105	32,448	50,414	39,104	(³)

¹ Includes 1 mine in the common clay and shale industry. This industry was not included in the census of mineral industries for 1929.

² Includes 2 mines and 1 preparation plant in the natural sodium compounds industry, and 1 limestone quarry operated in conjunction with a cement plant. Such operations were not included in the census of mineral industries for 1919.

³ Not available.

MINERAL INDUSTRIES

TABLE 2.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WYOMING, BY INDUSTRY: 1939

ITEM	All operations in all industries	PRODUCING OPERATIONS								Contract-service operations ¹	Non-producing operations ²
		Total	Fuels			Crushed and broken lime-stone	Common sand and gravel and common clay and shales ³	Bentonite	All other ⁴		
			Crude petroleum and natural gas	Natural gasoline	Bituminous coal						
Number of operating companies ⁵	168	146	68	5	53	6	3	8	8	19	5
Number of mines and quarries	89	89			66	6	3	6	8		
Number of oil and gas wells producing on December 31, 1939	2,673	2,673	2,673								
Number of preparation plants	17	17		7		2	2	5	1		
Value of all products ⁶	\$58,985,559	\$35,547,909	\$20,875,984	\$1,587,890	\$11,078,017	\$366,547	\$56,473	\$882,965	\$720,233	\$3,458,650	
Number of persons engaged, total	6,963	6,394	1,586	173	4,353	152	30	79	221	580	9
Wage earners (average for the year)	6,228	5,705	1,039	157	4,074	139	26	74	196	518	5
Number receiving pay during pay-roll period ending nearest the 15th of:											
January	6,157	5,832	1,026	174	4,288	103	7	55	179	320	5
February	6,154	5,777	1,012	187	4,260	95	7	83	173	372	5
March	6,278	5,788	1,024	173	4,209	103	20	88	191	485	5
April	6,126	5,811	1,048	186	3,993	121	18	78	189	509	6
May	6,043	5,604	1,084	165	3,801	154	53	78	191	535	4
June	6,056	5,481	1,107	153	3,716	175	41	92	197	571	4
July	6,068	5,462	1,047	154	3,723	197	57	90	194	602	4
August	6,246	5,603	1,087	145	3,878	192	28	83	190	638	4
September	6,439	5,811	1,040	145	4,144	174	31	76	201	624	4
October	6,461	5,884	1,009	149	4,263	133	24	79	207	593	4
November	6,411	5,905	1,014	146	4,323	112	31	66	213	502	4
December	6,286	5,820	971	146	4,287	109	9	67	231	462	4
Salaried employees	647	619	338	16	226	10	2	5	22	24	4
Proprietors and firm members	88	70	9		53	5	2		3	18	
Performing manual labor	56	48	1		45				2	6	
Principal expenses designated below, total	\$16,649,889	\$15,582,284	\$6,189,557	\$569,332	\$7,777,029	\$219,142	\$38,055	\$308,046	\$493,524	\$1,039,948	\$27,657
Wages	\$8,779,845	\$7,931,940	\$1,783,882	\$274,322	\$5,390,066	\$132,081	\$22,927	\$83,835	\$265,067	\$344,352	\$3,353
Salaries	\$1,878,510	\$1,477,835	\$694,364	\$59,987	\$662,473	\$21,186	\$2,680	\$12,192	\$47,753	\$193,879	\$6,986
Supplies and materials	\$2,205,830	\$2,204,259	\$449,598	\$103,876	\$1,301,708	\$40,750	\$4,107	\$189,049	\$136,178	\$71,517	\$54
Fuel	\$388,486	\$388,286	\$143,128	\$25,446	\$157,415	\$11,741	\$6,041	\$24,068	\$20,448	\$7,200	
Purchased electric energy	\$421,855	\$421,655	\$138,432	\$254,777	\$12,897	\$2,300	\$1,589	\$24,090		(?)	
Contract work	\$3,175,764	\$3,158,510	\$3,000,175	\$118,701	\$10,005			\$16,132		(?)	\$17,254
Cost of buildings, machinery, and equipment erected or installed during year	\$2,203,770	\$2,183,276	\$1,261,266	\$422,926	\$465,011	\$8,284	\$7,101	\$15,715	\$12,971	(?)	\$10,494
Buildings	\$98,559	\$96,559	\$57,991	\$25,804	\$14,443			\$293	\$28	(?)	
Machinery and equipment, total	\$2,105,211	\$2,086,717	\$1,203,275	\$397,124	\$450,568	\$8,284	\$7,101	\$15,422	\$12,943	(?)	\$10,494
Purchased in new condition	\$1,957,198	\$1,952,104	\$1,119,337	\$394,116	\$408,782	\$1,784	\$5,272	\$14,804	\$11,209	(?)	\$5,092
Purchased in used condition	\$148,015	\$142,613	\$85,938	\$5,008	\$43,786	\$6,500	\$1,829	\$1,920	\$1,734	(?)	\$5,402
Number of man-hours worked by wage earners	10,216,534	8,854,855	2,075,448	292,048	5,838,150	259,299	42,252	154,928	393,028	1,352,882	8,799
Average hourly earning of wage earners	\$0.88	\$0.90	\$0.85	\$0.94	\$0.98	\$0.51	\$0.54	\$0.54	\$0.87	\$0.62	\$0.38
Horsepower rating of prime movers and electric motors driven by purchased energy, total	128,528	108,422	26,241	19,452	52,237	1,883	1,415	2,030	5,184	18,906	1,200
Per wage earner	20.8	19.0	25.3	123.9	12.6	13.5	54.4	27.4	28.3	86.5	240.0
Prime movers	84,363	65,062	14,418	19,452	25,310	1,886	1,090	1,939	997	18,101	1,200
Electric motors driven by purchased energy	44,165	43,360	11,823		26,927	27	325	91	4,187	805	
Horsepower rating of electric motors driven by energy generated by reporting companies	35,140	34,175	279	475	32,800			621		965	
Fuels consumed: ¹⁰											
Bituminous coal (tons of 2,000 pounds)	103,358	103,358			98,942	1,732		42	2,662	(?)	
Fuel oils (barrels of 42 gallons)	870,568	70,558	44,703		1,549		54	25,249	1,003	(?)	
Gasoline and kerosene (gallons)	244,238	244,238	93,847		16,577	37,321	40,900	24,221	51,372	(?)	
Natural gas (thousands of cubic feet)	2,959,045	2,959,045	2,008,720	950,325						(?)	
Electric energy consumed (thousands of kw.-hrs.), total	663,393	63,393	11,842	5,320	41,959	10	93	2,595	1,574	(?)	
Purchased	25,288	25,288	11,505		12,016	10	92	91	1,574	(?)	
Generated by reporting companies	588,105	38,105	337	5,320	29,943		1	2,504		(?)	

¹The report from each contracting concern covered the activities of the concern in all States, but was classified in the State in which the concern did the major portion of its work.

²All nonproducing operations were in the crude-petroleum and natural-gas industry.

³Represents 2 mines and 2 preparation plants in the common sand and gravel industry and 1 common clay and shale mine.

⁴Represents 1 iron-ore mine, 1 placer-gold mine, 1 feldspar mine, 1 gypsum mine, 2 mines and 1 preparation plant in the natural sodium compounds industry, and 2 vermiculite mines.

⁵Companies with operations in more than 1 industry are counted only once in the totals.

⁶Includes amounts received or due for contract services performed during the year.

⁷Contractors performing oil- and gas-field services were not asked to report, as such, expenditures for supplies and materials, fuel, purchased electric energy, and contract work, or cost of buildings, machinery, and equipment; contractors performing general services for mineral industries reported no expenditures for purchased electric energy or for buildings, machinery, and equipment, and were not asked to report expenditures for contract work.

⁸Excludes statistics for contract-service operations.

⁹Not available.

¹⁰No anthracite was reported consumed; contract-service operators were not asked to report fuels consumed.

WYOMING

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TABLE 3.—PRINCIPAL STATISTICS FOR MINERAL INDUSTRIES IN WYOMING, BY COUNTY: 1939
(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ITEM	State	Albany	Carbon	Converse	Fremont	Hot Springs	Lincoln
Number of operating companies ¹	83	3	15	5	6	9	8
Number of mines and quarries	89	3	14	5	5	8	8
Number of preparation plants	17	2	2		2	1	
Value of all products	\$14,671,925	\$181,758	\$1,252,747	\$31,028	\$140,657	\$180,671	\$1,047,116
Number of persons engaged, total	5,008	18	397	15	64	122	484
Wage earners (average for the year)	4,866	14	382	10	51	102	463
Salaried employees	281	2	15		6	3	16
Proprietors and firm members	81		10	5	7	17	5
Performing manual labor	47		9	5	4	14	3
Principal expenses designated below, total	\$9,382,727	\$49,526	\$731,170	\$26,688	\$113,634	\$129,437	\$845,824
Wages	\$6,166,078	\$19,715	\$482,085	\$19,904	\$71,509	\$104,682	\$607,369
Salaries	\$785,271	\$4,160	\$38,714		\$10,142	\$4,467	\$44,326
Supplies and materials	\$1,754,663	\$8,554	\$167,147	\$5,552	\$14,536	\$12,182	\$117,023
Fuel	\$245,157	\$4,100	\$33,254	\$1,113	\$17,168	\$1,760	\$12,191
Purchased electric energy	\$283,223		\$909	\$117		\$4,986	\$64,915
Contract work	\$158,335	\$12,897	\$9,061		\$250	\$1,200	
Cost of buildings, machinery, and equipment erected or installed during year	\$932,010		\$80,680	\$250	\$15,541	\$10,483	\$10,447
Buildings	\$40,569		\$1,334		\$28	\$4,279	
Machinery and equipment	\$891,442		\$79,346	\$250	\$15,513	\$6,184	\$10,447
Horsepower rating of prime movers and electric motors driven by purchased energy, total	82,181	450	5,119	263	1,885	1,478	6,458
Prime movers	50,644	450	5,044	246	1,885	1,023	1,197
Electric motors driven by purchased energy	31,537		75	20		455	5,261
Horsepower rating of electric motors driven by energy generated by reporting companies	33,898		2,581		167	15	900
Fuels consumed: ²							
Bituminous coal (tons of 2,000 pounds)	103,358	927	18,685		4,777	3	7,752
Fuel oils (barrels of 42 gallons)	25,855		1,014	278	875	151	50
Gasoline and kerosene (gallons)	160,391	9,888	11,475	1,269	39,289	8,913	538
Natural gas (thousands of cubic feet)	950,325		42,992		14,520	103	
Electric energy consumed (thousands of kw.-hrs.), total	51,551		3,959	6	330	323	3,640
Purchased	13,783		43	6		245	3,253
Generated by reporting companies	37,768		3,916		330	78	367

ITEM	Natrona	Platte	Sheridan	Sweetwater	Uinta	Weston	All other ³
Number of operating companies ¹	4	3	7	8	3	7	10
Number of mines and quarries	2	3	8	13	3	5	9
Number of preparation plants	2			2		4	4
Value of all products	\$1,245,535	\$866,353	\$909,489	\$7,514,168	\$34,467	\$878,901	\$568,135
Number of persons engaged, total	130	254	398	2,868	20	71	169
Wage earners (average for the year)	117	231	367	2,725	15	67	142
Salaried employees	11	21	29	161		4	13
Proprietors and firm members	2	2	2	2	5		4
Performing manual labor	1		2	1	5		3
Principal expenses designated below, total	\$389,255	\$463,451	\$612,006	\$5,324,000	\$28,472	\$301,182	\$348,104
Wages	\$207,517	\$278,577	\$358,398	\$3,735,115	\$23,492	\$80,572	\$178,294
Salaries	\$28,578	\$43,353	\$68,063	\$480,316		\$10,992	\$34,152
Supplies and materials	\$88,894	\$135,694	\$98,184	\$891,697	\$1,775	\$157,999	\$65,156
Fuel	\$20,309	\$11,250	\$4,140	\$97,482	\$183	\$23,918	\$18,250
Purchased electric energy		\$24,577	\$63,897	\$119,121	\$3,112	\$1,569	
Contract work	\$66,140		\$344	\$59		\$15,132	\$52,252
Cost of buildings, machinery, and equipment erected or installed during year	\$125,172	\$10,527	\$26,978	\$349,053		\$15,715	\$307,184
Buildings	\$15,614		\$515	\$7,288		\$293	\$11,217
Machinery and equipment	\$109,558	\$10,527	\$26,463	\$341,765		\$15,422	\$295,967
Horsepower rating of prime movers and electric motors driven by purchased energy, total	13,427	4,384	6,104	31,874	240	1,955	8,541
Prime movers	13,427	190	207	18,487	103	1,864	8,541
Electric motors driven by purchased energy		4,194	5,897	15,407	137	91	
Horsepower rating of electric motors driven by energy generated by reporting companies	383			27,855		621	1,374
Fuels consumed: ²							
Bituminous coal (tons of 2,000 pounds)		1,882	2,801	56,837	98	42	9,964
Fuel oils (barrels of 42 gallons)			155	5		23,249	79
Gasoline and kerosene (gallons)	1,140	14,582	1,656	11,194		23,383	27,160
Natural gas (thousands of cubic feet)	825,781			48,771			218,168
Electric energy consumed (thousands of kw.-hrs.), total	4,298	1,584	2,472	30,586	135	2,595	1,621
Purchased		1,584	2,472	5,954	135	91	
Generated by reporting companies	4,298			24,634		2,504	1,621

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

² No anthracite was reported consumed.

³ Big Horn, Campbell, Crook, Johnson, Laramie, Niobrara, and Teton.