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2004 REPORT ON OHIO MINERAL INDUSTRIES

WITH

DIRECTORIES OF REPORTING
COAL AND INDUSTRIAL MINERAL OPERATORS

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Columbus
2005

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2004 OHIO MINING ACTIVITIES IN BRIEF

Reports were filed in 2004 for 157 coal-mining operations, including 5 mines with their own coal-washing facility. Coal production was reported from 94 of these 157 operations. Reports also were filed for 18 separate coal-washing plants and associated facilities. Of 645 industrial-mineral-mining operations known to be operating in 2004, 471 operations were active. A total of 33 mines reported production of multiple mineral commodities. Of this total, 28 mines reported production of multiple industrial minerals, including 8 mines reporting production of multiple industrial minerals and coal; 5 mines reported production of coal and one industrial mineral. There were 501 new wells completed for oil and gas in 2004, of which 456 were productive and 55 were dry.

The total value¹ of coal was \$533,659,428 in 2004; the value of oil and gas was \$796,982,247; and the total value¹ of all nonfuel industrial minerals was \$920,057,653 in 2004.

¹Includes reported and estimated values. Some operations reporting sales did not report a value for those sales. A countywide- or statewide-average price per ton was calculated for each industrial mineral commodity based on sales for which the value was reported. A countywide average price per ton was calculated for coal based on sales for which the value was reported and method of production. These calculated averages were used to estimate the value of the sales for which the actual values were not reported.

TABLE 1.—2004 Mineral sales and production in Ohio

Commodity	Sales ¹	Production ²	Value ³	Change in value from 2003 (percent)
Coal	23,157,564 tons	23,460,615 tons	\$533,659,428	+13.3
Limestone and dolomite	82,143,115 tons	81,632,347 tons	\$481,796,647	+13.8
Sand and gravel	54,074,604 tons	54,162,090 tons	\$263,850,773	+5.2
Salt	4,665,736 tons	4,646,892 tons	\$121,403,239	+11.2
Sandstone and conglomerate	1,748,115 tons	1,723,777 tons	\$39,585,904	+8.2
Clay	1,078,952 tons	1,078,952 tons	\$7,320,347	+3.9
Shale	1,274,363 tons	1,274,363 tons	\$6,100,693	+27.9
Gypsum	39,383 tons	39,383 tons	\$472,596	-49.1
Peat	0 tons	0 tons	\$0	NA
Gas	⁴	90,301,118 MCF ⁵	\$577,123,783	+4.5
Oil	⁴	5,785,338 barrels	\$219,858,464	+38.2

¹Includes material for captive use.

²The production figures for the industrial minerals are estimates. Many operators do not know actual production. Some operators report estimates, other operators do not report any production. For those operators who do not report production, production is assumed to equal sales.

³The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton calculated on reported FOB values.

⁴Figure not available.

⁵Thousand cubic feet.

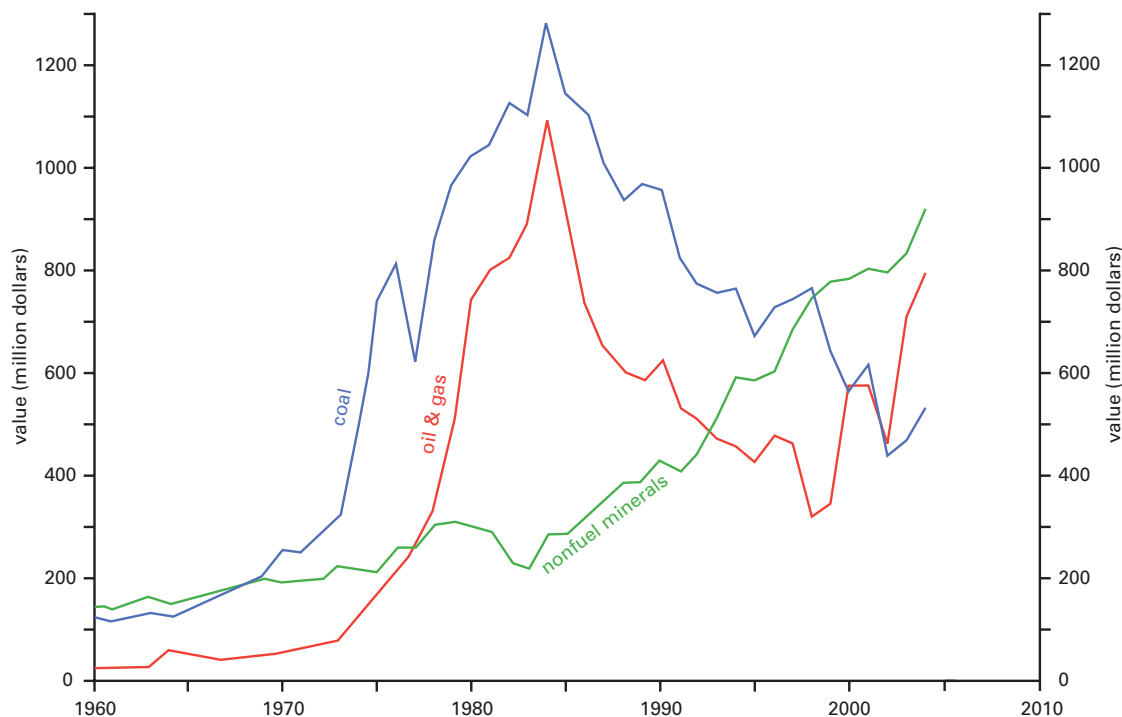


FIGURE 1.—Value of coal, nonfuel minerals, and oil and gas in Ohio.

COAL

Coal was produced by 31 companies at 94 mines in 16 Ohio counties during 2004. Production increased 5.2 percent from 2003, totaling 23,460,615 tons in 2004; 9,190,869 tons (39.2 percent of total production) were produced at 86 surface mines, and 14,269,746 tons (60.8 percent of total production) were produced at 8 underground mines. In 2004, tonnage from underground production exceeded tonnage from surface production, continuing a trend that began in 1995. Of 26 coal-producing states, Ohio ranked 13th in 2004. The top five states, in descending order of production, are Wyoming (396.5 million tons), West Virginia (147.9 million tons), Kentucky (113.8 million tons), Pennsylvania (66.0 million tons), and Texas (45.9 million tons). These five states produced 69.3 percent of the nation's coal in 2004. Ohio produced 2.1 percent of the nation's coal in 2004. The top five coal-consuming states, in descending order of consumption, are Texas, Indiana, Illinois, Ohio, and Pennsylvania. These five states used 32.8 percent of the total coal consumed by all 50 states in 2004.²

In comparison to 2003, 1 more mine produced between 50,000 and 249,999 tons, 8 less mines produced under 50,000 tons. There was a net decrease of 7 mines in 2004.

The five leading counties for 2004 production were Belmont, Harrison, Tuscarawas, Athens, and Vinton Counties; these counties produced 82.2 percent of the 2004 total production. A total of 23,157,564 tons of coal were sold in 2004; total value³ was \$533,659,428. The average price per ton of all coal sold was \$23.04; surface-mined coal averaged \$21.94 per ton and underground-mined coal averaged \$23.76.

In underground mining, 63 percent of the coal was produced by longwall mining and 37 percent was mined by continuous miner; no coal was produced by conventional mining in 2004. In surface operations, 91 percent of the coal was mined by conventional surface methods, and 9 percent was auger mined.

The Pittsburgh (No. 8) coal was the most heavily mined seam, followed by the Middle Kittanning (No. 6), Lower Freeport (No. 6A), Meigs Creek (No. 9), and Lower Kittanning (No. 5) seams. Coal produced from these five seams constituted 88.9 percent of the total 2004 production.

A total of 16,893,738 tons of washed coal was reported in 2004. Reports from 11 coal-washing plants indicate an average 29.6 percent loss in washing.

Rail was the primary means of coal disposition, carrying 58.2 percent of the total sales. Trucking transported 37.2 percent and water carried 4.2 percent of the coal sold in 2004. A total of 352,732 tons (1.5 percent) of the coal produced was reported as stored.

The total average annual employment reported in 2004 was 2,295 employees; 1,535 of these were production employees. Production employees worked an average of 163 days producing coal in 2004. The average annual wage earned by all production employees was \$50,773 based on those employees for whom wages were reported. The average annual wage for surface-mine production employees was \$43,117, and the average annual wage for underground-mine production employees was \$54,182. Wages earned by all employees totaled \$120,561,754 in 2004.

²Information from U.S. Department of Energy, Energy Information Administration.

³Includes reported and estimated values. See footnote 1, p. 1.

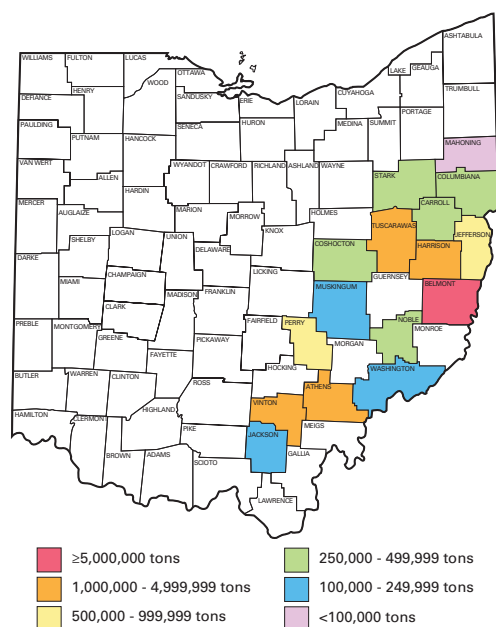


FIGURE 2.—Coal production in Ohio in 2004, by county.

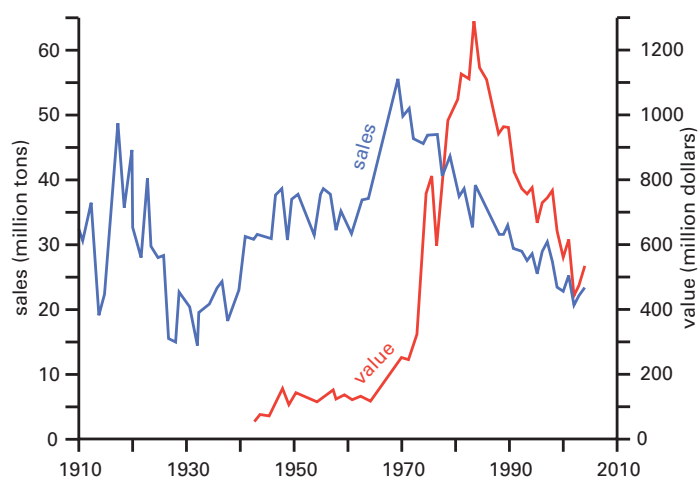


FIGURE 3.—Sales and value of coal in Ohio.

TABLE 2.—2004 Ohio coal production and sales by county, in descending order of production

County	Production (short tons)	Sales (short tons)
Belmont	11,967,388	11,800,356
Harrison	3,828,637	3,820,125
Tuscarawas	1,237,405	1,154,818
Athens	1,215,027	1,192,106
Vinton	1,033,268	1,033,270
Jefferson	923,716	912,861
Perry	717,107	716,984
Stark	474,573	473,875
Coshocton	468,051	458,061
Carroll	438,545	438,544
Columbiana	382,965	382,965
Noble	335,410	335,410
Jackson	162,820	162,820
Washington	152,615	152,615
Muskingum	105,204	104,870
Mahoning	17,884	17,884
16 counties	23,460,615	23,157,564

TABLE 3.—2004 Ohio coal production by production-size group and change from 2003

Production-size group	2004		Change from 2003 (short tons)
	Number of mines reporting	Production (short tons)	
1,000,000 tons and over	4	13,147,327	821,678
500,000 to 999,999 tons	3	2,093,067	41,896
250,000 to 499,999 tons	10	3,341,526	178,516
100,000 to 249,999 tons	21	3,516,864	572,845
50,000 to 99,999 tons	11	715,465	-156,210
25,000 to 49,999 tons	8	327,869	-175,480
Less than 25,000 tons	37	318,497	-115,834
TOTAL	94	23,460,615	1,167,411

TABLE 4.—2004 Ohio coal production by county and mining method

County ¹	All methods (short tons)	Total number of mines	Underground				Surface			
			Number of underground mines reporting	Production (short tons)			Number of surface mines reporting	Production (short tons)		
				Total underground	Longwall	Continuous miner		Total surface	Strip	Auger
Athens	1,215,027	1	1	1,215,027		1,215,027				
Belmont	11,967,388	17	2	10,357,168	9,023,812	1,333,356	15	1,610,220	1,375,409	234,811
Carroll	438,545	3	1	409,986		409,986	2	28,559	28,559	
Columbiana	382,965	5					5	382,965	370,685	12,280
Coshocton	468,051	3					3	468,051	414,584	53,467
Harrison	3,828,637	13 ²	1	1,632,079		1,632,079	12	2,196,558	2,147,375	49,183
Jackson	162,820	3					3	162,820	162,820	
Jefferson	923,716	12	2	549,293		549,293	10	374,423	324,133	50,290
Mahoning	17,884	2					2	17,884	17,884	
Muskingum	105,204	1					1	105,204	89,675	15,529
Noble	335,410	2					2	335,410	153,187	182,223
Perry	717,107	1					1	717,107	695,076	22,031
Stark	474,573	5					5	474,573	474,573	
Tuscarawas	1,237,405	20	1	106,193		106,193	19	1,131,212	882,195	249,017
Vinton	1,033,268	5					5	1,033,268	1,033,268	
Washington	152,615	1					1	152,615	152,615	
TOTAL	23,460,615	94	8	14,269,746	9,023,812	5,245,934	86	9,190,869	8,322,038	868,831

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²Does not include mines extending into this county from adjoining counties.

TABLE 5.—2004 Ohio coal production by county and month

County ¹	Production (short tons)												
	Total annual	January	February	March	April	May	June	July	August	September	October	November	December
Athens	1,215,027	105,189	94,968	141,452	91,289	80,757	99,709	73,128	117,000	106,180	100,366	96,289	108,700
Belmont	11,967,388	1,066,097	1,076,416	1,191,023	670,021	810,177	1,113,105	1,158,519	1,107,398	1,044,524	1,149,224	774,124	806,760
Carroll	438,545	38,231	33,269	37,919	34,289	32,900	31,255	30,579	37,520	37,479	40,125	47,156	37,823
Columbiana	382,965	32,842	30,789	39,145	42,911	34,342	32,928	34,265	33,503	26,609	24,493	27,042	24,096
Coshocton	468,051	23,548	29,066	31,947	28,224	31,562	30,470	32,228	38,154	36,497	67,104	65,507	53,744
Harrison	3,828,637	323,478	323,293	372,593	348,908	315,497	323,006	301,005	317,574	301,291	294,189	319,918	287,885
Jackson	162,820	13,749	16,781	12,515	15,105	16,098	15,488	13,898	14,001	13,685	10,500	10,500	10,500
Jefferson	923,716	90,224	89,055	96,373	82,319	76,076	84,634	78,247	61,508	61,662	67,556	66,958	69,104
Mahoning	17,884	2,292	573	1,146	955	1,767	1,076	1,146	1,910	2,245	1,910	1,337	1,527
Muskingum	105,204	15,554	19,027	17,240	10,469	9,658	14,908	11,693	6,655				
Noble	335,410	25,519	24,757	32,081	28,004	24,990	31,830	32,848	29,871	21,876	27,513	26,745	29,376
Perry	717,107	66,256	79,372	82,288	54,122	38,348	52,487	50,640	61,316	41,852	63,388	68,192	58,846
Stark	474,573	35,630	44,317	43,092	42,042	34,013	41,531	36,032	38,074	34,845	39,459	38,623	46,915
Tuscarawas	1,237,405	86,551	101,104	101,398	103,682	98,328	119,135	125,687	119,226	85,001	97,146	93,769	106,378
Vinton	1,033,268	92,853	86,263	93,070	73,576	81,585	93,382	83,147	85,238	77,443	89,605	81,015	96,091
Washington	152,615	11,472	11,384	12,795	15,169	11,332	14,037	11,778	14,396	9,422	15,791	13,066	11,973
TOTAL	23,460,615	2,029,485	2,060,434	2,306,077	1,641,085	1,697,430	2,098,981	2,074,840	2,083,344	1,900,611	2,088,369	1,730,241	1,749,718

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 6.—2004 Ohio coal production

	Production								
County ¹	Total	Lower Mercer (No. 3)	Tionesta (No. 3B)	Brookville (No. 4)	Clarion (No. 4A)	Lower Kittanning (No. 5)	Strasburg (No. 5A)	Middle Kittanning (No. 6)	Lower Freeport (No. 6A)
Athens	1,215,027							1,215,027	
Belmont	11,967,388								
Carroll	438,545							24,667	
Columbiana	382,965								
Coshocton	468,051					73,192		394,859	
Harrison	3,828,637								1,632,079
Jackson	162,820			46,713		98,264		15,704	
Jefferson	923,716								301,965
Mahoning	17,884			17,884					
Muskingum	105,204							105,204	
Noble	335,410								
Perry	717,107					185,175		531,932	
Stark	474,573			301,412		39,796	3,082	130,283	
Tuscarawas	1,237,405	58,649	24,833	39,948		421,212	5,915	538,280	
Vinton	1,033,268			124,406	497,517	286,043		105,265	
Washington	152,615								
TOTAL	23,460,615	58,649	24,833	530,363	497,517	1,103,682	8,997	3,061,221	1,934,044

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.

by county and seam

(short tons)								
Upper Freeport (No. 7)	Mahoning (No. 7A)	Harlem	Pittsburgh (No. 8)	Pomeroy- Redstone (No. 8A)	Meigs Creek (No. 9)	Waynesburg (No. 11)	Washington (No. 12)	County ¹
195,604	409,986 187,361	3,892	10,937,775		988,860	39,586	1,167	Athens Belmont Carroll Columbiana Coshocton
2,139 17,068	247,328		1,854,329 309,642	161,959 40,850	180,270 504	6,359		Harrison Jackson Jefferson Mahoning Muskingum
148,568 20,037					335,410			Noble Perry Stark Tuscarawas Vinton Washington
383,416	844,675	3,892	13,101,746	202,809	1,657,659	45,945	1,167	TOTAL

TABLE 7.—2004 Disposition of Ohio coal, by county

County ¹	Number of mines	Disposition ¹ (short tons)						Stored
		Total ²	Rail	Water	Truck	Conveyor	Unspecified/other	
Athens	1	1,192,106	1,074,150				117,956	69,808
Belmont	17	11,800,356	10,209,381	287,446	1,303,529			56,453
Carroll	3	438,544			438,544			
Columbiana	5	382,965			382,965			
Coshocton	3	458,061			468,051			
Harrison	13 ³	3,820,125	1,768,269	312,367	1,739,489			226,271
Jackson	3	162,820		8,051	154,769			
Jefferson	12	912,861			912,861			
Mahoning	2	17,884			17,884			
Muskingum	1	104,870			104,870			
Noble	2	335,410			335,410			
Perry	1	716,984	417,533		299,451			
Stark	5	473,875			473,875			
Tuscarawas	20	1,154,818			1,154,818			200
Vinton	5	1,033,270		354,983	678,287			
Washington	1	152,615			152,615			
TOTAL	94	23,157,564	13,469,333	962,847	8,617,418		117,956	352,732

¹Tonnage of coal shipped from mines operating in more than one county was evenly split between the counties involved and type(s) of disposition reported unless a by-county breakdown was provided by the operator.

²Does not reflect tonnage stored. Reflects tonnage sold and shipped from mine.

³Does not include mines extending into this county from adjoining counties.

TABLE 8.—2004 Dollar value of coal at mine by county and mining method

County ¹	Total				Underground				Surface			
	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)
Athens	1	1,192,106	\$26,451,480	\$22.19	1	1,192,106	\$26,451,480	\$22.19				
Belmont	17	11,800,356	269,186,746	22.81	2	10,221,496	234,483,540	22.94	15	1,578,860	\$34,703,206	\$21.98
Carroll	3	438,544	13,233,640	30.18	1	409,986	12,573,588	30.67	2	28,558	660,052	23.11
Columbiana	5	382,965	9,233,282	24.11					5	382,965	9,233,282	24.11
Coshocton	3	458,061	11,051,811	24.13					3	458,061	11,051,811	24.13
Harrison	13 ³	3,820,125	92,932,481	24.33	1	1,592,725	46,332,370	29.09	12	2,227,400	46,600,111	20.92
Jackson	3	162,820	3,916,616	24.05					3	162,820	3,916,616	24.05
Jefferson	12	912,861	20,573,662	22.54	2	549,293	12,360,418	22.50	10	363,568	8,213,244	22.59
Mahoning	2	17,884	658,910	36.84					2	17,884	658,910	36.84
Muskingum	1	104,870	2,652,237	25.29					1	104,870	2,652,237	25.29
Noble	2	335,410	5,510,786	16.43					2	335,410	5,510,786	16.43
Perry	1	716,984	15,543,265	21.68					1	716,984	15,543,265	21.68
Stark	5	473,875	10,122,689	21.36					5	473,875	10,122,689	21.36
Tuscarawas	20	1,154,818	23,534,201	20.38	1	104,968	2,046,885	19.50	19	1,049,850	21,487,316	20.47
Vinton	5	1,033,270	26,550,157	25.70					5	1,033,270	26,550,157	25.70
Washington	1	152,615	2,507,465	16.43					1	152,615	2,507,465	16.43
Total	94	23,157,564	\$533,659,428	\$23.04	8	14,070,574	\$334,248,281	\$23.76	86	9,086,990	\$199,411,147	\$21.94

¹Sales reported from mines operating in more than one county were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²The FOB value of coal sold was estimated for those mines which failed to report this information. These estimates were calculated using a countywide-average price per ton by mining method based on reported FOB values deemed to be reliable.

³Does not include mines extending into this county from adjoining counties.

TABLE 9.—2004 Ohio coal-mine employment¹, by occupational group and month

Occupational group	Number of employees												
	Total annual	January	February	March	April	May	June	July	August	September	October	November	December
Production workers	1,535	1,495	1,528	1,519	1,539	1,543	1,574	1,611	1,541	1,529	1,475	1,518	1,545
Non-production workers	760	735	726	726	731	734	759	811	789	783	767	776	787
TOTAL	2,295	2,230	2,254	2,245	2,270	2,277	2,333	2,422	2,330	2,312	2,242	2,294	2,332

¹Employment was estimated for mines not reporting employment.

TABLE 10.—2004 Wage and salary payments to Ohio coal-mine employees, by county and occupational group

County ¹	Wage and salary payments (nearest whole dollar) ²			
	All occupations	Underground production employees	Surface production employees	Other
Athens	\$4,802,325	\$3,911,351		\$890,974
Belmont	58,208,026	30,721,587	\$4,916,996	22,569,443
Carroll	1,854,921	1,628,770	109,676	116,475
Columbiana	2,212,160		1,403,056	809,104
Coshocton	4,344,499		1,241,783	3,102,716
Harrison	18,538,461	7,000,000	7,236,109	4,302,352
Jackson	1,613,907		1,459,341	154,566
Jefferson	4,181,462	2,167,000	1,320,996	693,466
Mahoning	320,536		170,852	149,684
Meigs	101,524			101,524
Muskingum	753,865		542,782	211,083
Noble	1,822,593		1,519,905	302,688
Perry	2,848,340		2,421,089	427,251
Scioto	2,170,251			2,170,251
Stark	2,759,735		1,971,159	788,576
Tuscarawas	6,128,820	1,333,143	2,872,205	1,923,472
Vinton	7,223,820		3,369,591	3,854,229
Washington	676,509		619,339	57,170
TOTAL	\$120,561,754	\$46,761,851	\$31,174,879	\$42,625,024

¹For those operations reporting activity in more than one county, wage and salary payments were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²For those operations reporting only a total wage and salary payment to all workers, an equal pay rate was assumed for all employees. In cases where quarterly employment was reported but wage and salary payments were not, wage and salary payments for that quarter were estimated from reported payments in the other quarters to arrive at the annual figure. For mines reporting employment and no wage and salary payments, wage and salary payments were estimated using a countywide or statewide average.

INDUSTRIAL MINERALS

Industrial minerals, other than mineral fuels, were produced in a total of 86 Ohio counties in 2004. The combined value of all nonfuel industrial minerals sold in 2004 was \$920,057,653.

In 2004, 370 companies operated 645 industrial-mineral mining operations. Industrial minerals were produced or sold by 289 companies from 471 active operations. Twenty-four of the 289 companies produced more than one industrial mineral from 28 operations. Ten companies produced coal and one or more industrial minerals from 13 operations. Twenty companies produced multiple industrial-mineral commodities (no coal) from 21 operations. The remaining 259 companies produced one industrial-mineral commodity.

Of the 28 multiple industrial-mineral operations (including those operations producing coal and more than one industrial-mineral commodity), 6 operations produced limestone and clay; 6 operations produced clay and shale; 4 operations produced sand and gravel and clay; 3 operations produced sand and gravel, and shale; 2 operations produced sandstone and sand and gravel; 2 operations produced limestone, clay, and shale; 1 operation produced limestone and sand and gravel; 1 operation produced limestone and sandstone; 1 operation produced sandstone and clay; 1 operation produced limestone, sandstone, clay and shale; and 1 operation produced sand and gravel, sandstone and clay.

The 274 multiple industrial-mineral-commodity production employees worked an average of 183 days in 2004. Total wages of \$12,630,456 were paid to a total of 408 employees (274 production employees and 134 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$30,957.

The total average annual employment reported in 2004 for industrial mineral operations was 5,532 people (3,898 production employees and 1,634 nonproduction employees). Total wages for all employees at industrial mineral operations in 2004 were \$233,052,096. The average annual wage, based on those employees for whom wages were reported, was \$42,128.

TABLE 11.—2004 Value of Ohio industrial minerals

Commodity	Sales (tons)	Change from 2003 (tons/percent)	Value ¹ (dollars)	Percent of total value
Limestone and dolomite	82,143,115	+5,794,604/+7.6	\$481,796,647	52.4
Sand and gravel	54,074,604	+1,138,828/+2.2	\$263,850,773	28.7
Salt	4,665,736	+575,750/+12.3	\$121,403,239	13.2
Sandstone and conglomerate	1,748,115	+105,229/+6.0	\$39,585,904	4.3
Clay	1,078,952	+103,357/+10.6	\$7,320,347	0.8
Shale	1,274,363	+262,048/+25.9	\$6,100,693	0.7
Gypsum	39,383	-47,011/-54.4	\$472,596	<0.1
Peat	0	NA	\$0	NA
Total	145,023,268	+7,931,804/+5.8	\$920,057,653	100.0

¹The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton based on reported FOB values.

TABLE 12.—2004 Employment at Ohio industrial mineral operations, by county and commodity

County ¹	Number of employees ³																Multiple commodities			
	Total employees ²	Total ²		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt		Gypsum		Peat		
		Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production		Non production	Production	Non production
Adams	47	39	8	39	8	3	1													
Allen	48	34	14	31	13	36	7													
Ashland	43	36	7	0	0	17	6													
Ashtabula	32	21	11	0	0	6	8													
Athens	36	18	18	12	10															
Auglaize	30	26	4	20	4	5	0			1	0									
Belmont	56	43	13	19	6	2	2													
Brown	26	24	2	21	2															
Butler	129	87	42	0	0	87	42													
Carroll	6	4	2	0	0	4	2													
Champaign	25	20	5	0	0	20	5													
Clark	60	46	14	0	0	42	14													
Clermont	15	9	6	0	0	9	6													
Clinton	51	31	20	31	20															
Columbiana	58	37	21	0	0	13	11			1	0	4	1							
Coshocton	82	49	33	0	0	36	26			6										
Crawford	39	39	0	39	0	7	5			10	0									
Cuyahoga	234	135	99	0	0															
Darke	31	22	9	18	7	0	0													
Delaware	84	75	9	75	9															
Erie	186	146	40	136	40															
Fairfield	12	7	5	0	0	7	5													
Fayette	12	9	3	9	3															
Franklin	301	234	67	155	40	79	26													
Fulton	9	6	3	0	0	6	3													
Gallia	14	6	8	0	0	6	8													
Geauga	90	36	54	0	0	13	2			19	50									
Greene	167	103	64	46	40	50	23													
Guernsey	10	5	5	5	5															
Hamilton	181	105	76	0	0	97	75													
Hancock	27	25	2	25	2															
Hardin	12	10	2	10	2															
Harrison	27	23	4	13	3															
Highland	75	50	25	48	25	2	0													
Hocking	18	10	8	0	0	10	8													
Holmes	29	16	13	0	0	16	13													
Huron	1	1	0	0	0			1	0											
Jackson	14	9	5	8	3															
Jefferson	5	4	1	4	1															
Knox	61	40	21	0	0	19	16			21	5	0	0							
Lake	207	119	88	0	0	9	10			2	2									
Lawrence	3	1	2	0	0	1	2													
Licking	38	28	10	0	0	20	8													
Logan	79	54	25	38	20	16	6													
Lorain	16	14	2	0	0	0	0			14	2									

TABLE 12.—2004 Employment at Ohio industrial mineral operations, by county and commodity (cont.)

County ¹	Number of employees ³																			Multiple commodities	
	Total employees ²	Total ²		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt		Gypsum		Peat			
		Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production		
Lucas	105	79	26	64	22	2	0			5	4							7	1		
Madison	16	9	7	5	5													4	2		
Mahoning	91	69	22	15	15			1	0	1	0	4	1					52	7		
Marion	38	27	11	20	7	3	2														
Medina	39	31	8			31	8														
Meigs	46	40	6	0	0	40	6														
Mercer	11	9	2	9	2																
Miami	81	61	20	50	16	12	4														
Monroe	9	6	3	6	3																
Montgomery	126	86	40	50	23	36	17														
Morgan	3	2	1	0	0	2	1														
Morrow	9	6	3	0	0	6	3														
Muskingum	159	123	36	98	28	13	5			3	1	2	1					7	1		
Noble	23	17	6	11	5													6	1		
Ottawa	125	100	25	93	22									5	2	2	1				
Paulding	84	35	49	26	12																
Perry	64	57	7	0	0			39	3	2	1							9	37		
Pickaway	42	37	5	21	3	15	2											16	3		
Pike	42	24	18	8	6	10	3	6	9												
Portage	229	143	86	0	0	131	82											12	4		
Preble	60	48	12	32	7	15	4											2	0		
Putnam	14	11	3	11	3																
Richland	39	27	12	0	0	25	10			1	1	1	1								
Ross	49	31	18	11	5	19	13											1	0		
Sandusky	328	260	68	254	66													6	1		
Scioto	36	27	9	0	0	15	8	12	3												
Seneca	110	81	29	81	29																
Shelby	57	40	17	14	7	16	3											10	7		
Stark	117	86	31	0	0	75	29			2	1							9	1		
Summit	46	10	36	0	0	8	6							2	30						
Trumbull	19	9	10	0	0													2	8		
Tuscarawas	127	87	40	0	0	40	12	7	2	3	1	6	2					37	26		
Union	42	33	9	33	9			1	1												
Van Wert	24	17	7	17	7																
Vinton	7	7	0	7	0																
Warren	41	29	12	0	0	29	12														
Washington	46	29	17	0	0	29	17														
Wayne	69	52	17	0	0	24	5			1	0	1	0	12	6			14	6		
Williams	8	6	2	0	0	6	2														
Wood	64	52	12	52	12																
Wyandot	161	139	22	123	19	16	3														
TOTAL	5532	3898	1634	1913	596	1249	592	145	83	24	12	38	29	253	189	2	1	274	134		

¹For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties unless a by-county breakdown was provided by the operator.

²Any tally inconsistencies are due to computer rounding.

³Employment is not included for mines which were owner operated.

⁴Employment for Lake Erie sand and gravel dredging operations is included in the total employment figure for the county in which the operation is based.

LIMESTONE AND DOLOMITE

Limestone and dolomite were sold or produced by 59 companies at 114 operations in 49 Ohio counties during 2004. Sales of limestone and dolomite totaled 82,143,115 tons (+7.6 percent from 2003). Erie, Ottawa, Franklin, Wyandot, and Delaware Counties accounted for 40.1 percent of those sales. Reported known production totaled 81,632,347 tons.

Lime produced from Ohio limestone and dolomite totaled 1,528,594 tons in 2004 and came from five operations in Ottawa, Sandusky, Seneca, and Wyandot Counties. Ohio ranks 4th nationally in the production of lime out of 34 producing states and Puerto Rico. The top five states, in descending order of lime production, are Missouri, Alabama, Kentucky, Ohio, and Texas. Ohio ranks 7th in the production of crushed stone (which includes crushed sandstone) out of 49 producing states. The top states leading Ohio in the production of crushed stone, in descending order, are Texas, Pennsylvania, Florida, Georgia, Illinois, and Missouri.⁴

The total value⁵ of limestone and dolomite sold in 2004 was \$481,796,647. Average price per ton was \$5.87.

An annual average of 1,913 employees worked an average of 236 days to produce limestone and dolomite. Total wages of \$114,380,292 were paid to a total of 2,509 employees (1,913 production employees and 596 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$45,588. An additional 82 people (70 production employees and 12 nonproduction employees) were employed by operations mining limestone and dolomite along with one or more other mineral commodities.

The primary use for crushed and broken limestone and dolomite was road construction/resurfacing. Other major uses for various forms of limestone and dolomite included, stone for asphaltic concrete and portland cement concrete, commercial building, and the production of lime.

⁴Information from U.S. Geological Survey.

⁵Includes reported and estimated values. See footnote 1, p. 1.

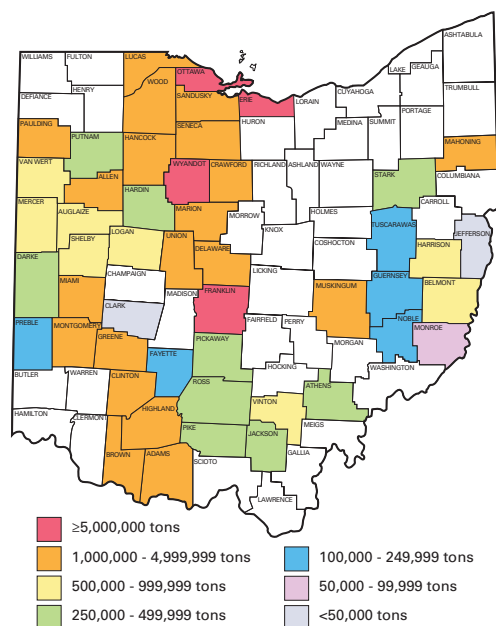


FIGURE 4.—Sales of limestone and dolomite in Ohio in 2004, by county.

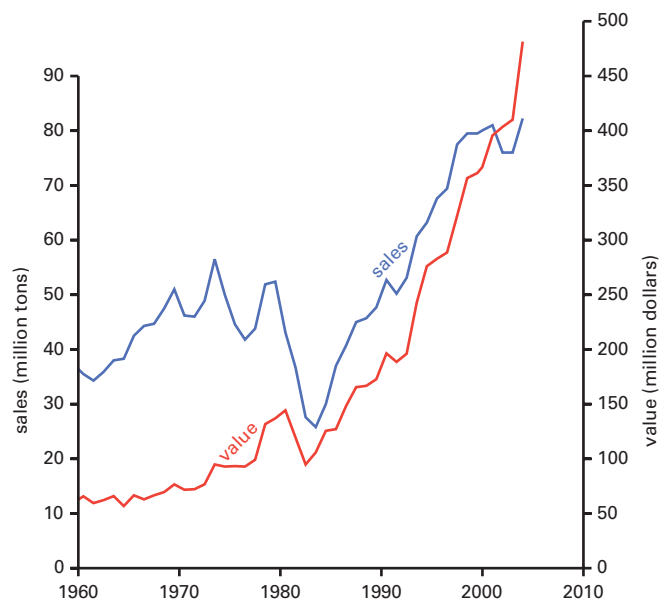


FIGURE 5.—Sales and value of limestone and dolomite in Ohio.

TABLE 13.—2004 Production of lime from Ohio stone, by county and type

County	Total tons ¹	Building (tons)	Chemical and industrial (tons)	Refractory (tons)	Other (tons)
Ottawa	146,663	112,221	34,442		
Sandusky	921,400		303,863	617,537	
Seneca	353,531		353,531		
Wyandot	107,000		107,000		
TOTAL	1,528,594	112,221	798,836	617,537	

¹Burning produced a 57.2 percent weight loss.

TABLE 14.—2004 Ohio limestone and dolomite sales, by county and type

County	Tons sold												
	Total all types	Crushed and broken stone							Dimension stone	Stone for portland cement manufacture	Agricultural stone (aglime)	Raw stone for burning	Un-specified/other
		Total	Riprap	Flux stone	Stone for portland cement concrete	Stone for asphaltic concrete	Road construction/resurfacing	Commercial building	Railroad ballast	Extenders/fillers	Un-specified/other		
Adams	1,576,498	1,543,082			200,000	200,000	500,000	200,000			33,416		
Allen	1,551,964	1,544,485	11,564		338,235	450,509	69,768	567,485			7,479		
Athens	300,000	300,000											
Auglaize	925,841	921,841	32,360		170,000	122,910	596,571				4,000		
Belmont	600,658	600,658	14,661				585,997						
Brown	1,339,964	1,339,964											
Clark	6,693	6,693					6,693				1,339,964		
Clinton	1,591,537	1,571,019	79,824		200,000	350,000	325,000	438,964			177,231		
Crawford	2,835,000	2,738,000	28,000	25,000	639,000	436,000	1,357,000			253,000			
Darke	400,003	400,002	2			300,000					100,000	1	
Delaware	4,518,000	4,515,000	26,000		1,402,000	346,000	2,741,000				3,000		
Erie	8,278,045	8,278,045	40,000		819,422	1,045,842	5,016,043	1,150,000	100,000				
Fayette	239,774	239,774				180,000	55,000			4,774			
Franklin	7,103,160	7,103,160			1,100,000	2,200,000	2,500,000	1,000,000	149,093				
Greene	1,888,982	1,297,855	10,344			125,000	930,000	125,635				591,127	
Guernsey	123,241	123,241					123,241						
Hancock	1,092,000	1,092,000	6,000		232,000	99,000	593,000		162,000				
Hardin	298,674	298,674	4,684		63,102	55,000		57,786			10,000		
Harrison	927,865	927,865	44,462				441,701	441,702					
Highland	1,984,032	1,976,316	17,040			576,489	600,592			10,000	7,716		
Jackson	386,790	386,790											
Jefferson	36,038	36,038	1,799				28,781	3,598	180		386,790		
Logan	888,090	888,090	33,186		297,563	120,000	163,705	249,636			1,680		
Lucas	3,301,666	3,278,493	30,000		350,000	545,000	405,000	470,000		20,000	24,000		
Mahoning	2,668,970	2,158,186	53,462		98,455	135,759	489,415				1,458,493	23,173	
Marion	1,055,900	1,053,900	3,000		309,000	282,000	408,000	40,000			1,381,095	510,784	
Mercer	830,589	810,000	10,000		200,000	200,000	200,000	200,000			2,000	2,000	
Miami	1,499,236	1,411,980	5,839	21,633	685,971	75,475	538,969			84,093	20,589		
Monroe	70,693	70,693				350,000	869,648	50,000		1,000	78,949		
Montgomery	1,300,093	1,300,093	3,000										
Muskingum	2,250,347	2,250,347	1,170		200,000	350,000	1,438,790	150,000					
Noble	182,760	182,760	77,083				105,677			21,560	88,827		
Ottawa	7,176,026	6,831,231	110,660	1,059,364	814,452	2,535,811	1,560,258	200,000		477,443	73,243	322,592	
Paulding	1,706,863	969,000	12,000		200,000	200,000	407,000	150,000			22,203	74,970	
Pickaway	496,770	496,770	16,262		110,000	176,200	100,000		54,308		40,000		
Pike	279,600	276,100	7,600			268,500						3,500	
Preble	148,463	142,879	13,286				129,593						
Putnam	413,454	413,454	429		83,857	13,000	316,168						
Ross	418,535	418,535			40,000		240,000	100,000					
Sandusky	3,393,824	1,131,503					964,103					11,208	2,251,113

SAND AND GRAVEL

Sand and gravel were sold or produced by 209 companies at 293 operations in 62 Ohio counties plus Lake Erie during 2004. Sales⁶ of sand and gravel totaled 54,074,604 tons (+5.2 percent from 2003). Sand accounted for 30,785,474 tons of the total sand and gravel sold, and gravel accounted for 23,289,130 tons. Butler, Stark, Hamilton, Portage, and Franklin Counties, led in sales, accounting for 46.1 percent of the total. Reported known production⁶ of sand and gravel totaled 54,162,090 tons in 2004. Ohio ranks 6th nationally in the production of construction sand and gravel out of 50 producing states and Puerto Rico. The top five states, in descending order of production, are California, Texas, Michigan, Arizona, and Minnesota. Ohio ranks 10th nationally in the production of industrial sand and gravel out of 35 states. The states leading Ohio in the production of industrial sand and gravel, in descending order, are Illinois, Texas, Michigan, Wisconsin, North Carolina, California, New Jersey, Oklahoma, and Tennessee. Ohio ranks 5th nationally in the production of aggregates, including crushed stone. The top five states, in descending order of aggregate production, are California, Texas, Florida, Pennsylvania, and Ohio.⁷

A total of 68,252 tons of sand were dredged from Lake Erie in 2004. The Maumee Bay and Maumee River areas are no longer producing sand or gravel.

The total value⁸ of sand and gravel sold in 2004 was \$263,850,773. Average price per ton was \$4.88.

An annual average of 1,249 employees worked an average of 181 days in 2004 to produce sand and gravel. Total wages of \$78,559,152 were paid to a total of 1,841 employees (1,249 production employees and 592 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$42,672. An additional 50 people (38 production employees and 12 nonproduction employees) were employed by operations mining sand and gravel along with one or more other mineral commodities.

Building, portland cement concrete, asphaltic concrete, and road construction/resurfacing were the major uses for Ohio sand and gravel in 2004.

⁶Please note—Sales and production figures for sand include material dredged from Lake Erie.

⁷Information from U.S. Geological Survey.

⁸Includes reported and estimated values. See footnote 1, p. 1.

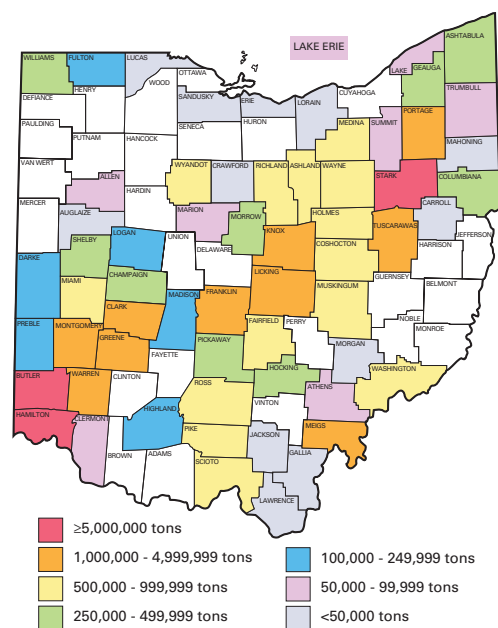


FIGURE 6.—Sales of sand and gravel in Ohio in 2004, by county.

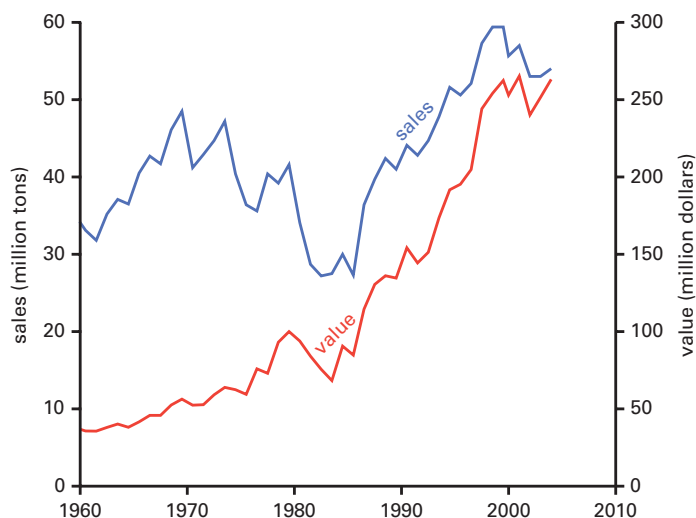


FIGURE 7.—Sales and value of sand and gravel in Ohio. Figures from 1984 to 2004 include Lake Erie dredged material.

TABLE 15.—2004 Ohio sand and gravel sales, by county and type

County	Tons sold													
	Total sand and gravel	Total sand	Total gravel	Building		Portland cement concrete		Asphaltic concrete		Road construction/ resurfacing		Filtration		Foundry/Industrial sand
				Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel	
Allen	71,479	64,656	6,823	1,912	1,740	41,833	12,284	83,295	1,907	4,064	465	4,563	2,711	
Ashtabula	517,237	219,567	297,670	122,275	137,370	46,000	6,000	8,696	125,755	4,225	19,018	13,997	34,545	
Ashland	402,239	232,802	169,437	173,881	114,988	3,200	1,689	30,292	362,863	2,000	35,547	58,552	104,331	
Athens	90,276	47,812	42,464	8,500	22,249	3,000	242,972	45,000	45,328	2,000	55,300	7,180	7,180	
Auglaize	30,587	22,036	8,551	2,282	6,862	19,754	27,500	64,186	300,000	5,500	2,448	24,682	28,252	
Butler	5,615,598	3,120,762	2,494,836	1,603,583	1,058,260	449,916	43,497	93,343	362,863	5,471	2,448	19,727	7,881	
Carroll	42,250	22,000	20,250	20,000	20,000	2,000	28,003	75,356	250			11,256		
Champaign	497,343	176,777	320,566	2,709	1,621	170,300	242,972	113,034	250			174,068	318,945	
Clark	1,880,798	980,910	899,888	690,058	214,736	2,000	60,000	200,000	300,000	15,000	35,547	58,552	104,331	
Clermont	67,860	33,180	34,680									7,180	7,180	
Columbiana	336,948	144,831	192,117	50,463	63,237	58,086	43,497	64,186	362,863	5,500	2,448	24,682	28,252	
Coshocton	575,446	334,190	241,256	44,529	26,188			93,343	362,863	5,471	2,448	19,727	7,881	
Crawford	32	32										32		
Cuyahoga	11,256	11,256										11,256		
Darke	107,339	53,336	54,003	668	26,000	26,500	28,003							
Erie	1,968	1,968												
Fairfield	750,304	556,593	193,711	80,000	30,000	180,000	60,000	70,000	20,000	10,000	3,000	16,593	711	
Franklin	4,216,601	2,146,505	2,070,096	482,615	1,094,250	1,268,577	316,000	40,000	62,000	6,000	9,000	15,549	25,337	
Fulton	211,115	211,115		178,276								32,839		
Gallia	3,756	3,365	391							45	391	3,320		
Geauga	317,177	211,627	105,550	58,563	28,000	78,422	68,133		796		40,133	74,642	36,621	
Greene	2,269,608	1,119,884	1,149,724	745,500	609,987	57,029	50,711	56,706				285,588	414,898	
Hamilton	5,086,455	3,370,818	1,715,637	2,273,512	1,398,423	112,421	50,711	2,400	59,014	470	1,583	872,044	203,506	
Highland	102,257	61,354	40,903	30,677	20,451				10,226	30,677	10,226			
Hocking	285,235	222,182	63,053	82,715	39,899			17,651	10			62,496	5,503	
Holmes	819,283	441,623	377,660	5,136	154,486	212,530	69,129	35,693	94,249	13,704	4,984	14,013	400	
Jackson	1,400	840	560									840	560	
Knox	1,125,333	494,457	630,876	74,308	195,612	176,000	66,000	91,000	37,680	68,252		179,149	240,584	
Lake	74,142	72,932	1,210									4,680	1,210	
Lawrence	1,027	1,027										1,027		
Licking	1,431,987	847,092	584,895	135,000	239,000	285,000	120,000	75,000	45,000	15,000	7,000	25,092	11,895	
Logan	216,767	135,862	80,905	1,738		6,538	3,713		1,932	35,662		88,211	78,973	
Lorain	7,098	7,098		7,098										
Lucas	1,000	1,000	1,000									1,000	1,000	
Madison	210,496	42,883	167,613	38,581	167,613			4,302						
Mahoning	100	100	100	100	100									
Marion	80,775	79,533	1,242	6,070		64,815		68,500	12,600	28,000	25,800	8,648	1,242	
Medina	869,890	608,189	261,701	114,260	154,801		87,571	428,168				37,761		
Meigs	1,959,566	1,320,789	638,777	101,222	54,626	187,863		386,962	76,693	36,941	22,244	481,467	175,402	
Miami	644,478	469,792	174,686	376,858	126,286			14,934	22,400			78,000	26,000	

TABLE 15.—2004 Ohio sand and gravel sales, by county and type (cont.)

County	Tons sold																		
	Total sand and gravel	Total sand	Total gravel	Building		Portland cement concrete		Asphaltic concrete		Road construction/ resurfacing		Filtration		Foundry sand	Industrial sand	Other/unspecified			
				Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel			Sand	Gravel	Sand	Gravel
Montgomery	1,391,696	505,625	886,071	159,018	316,340	180,028	281,662											138,357	192,857
Morgan	34,472	17,406	17,066	175	1,488	763		12,124	2,407	338	8,173	756	4,998		3,250				
Morrow	256,710	85,064	171,646	75,754	103,681						40,022	9,310	12,792					15,151	
Muskingum	535,310	380,137	155,173	72,436	18,656	45,000	25,000	114,130	61,330	26,408	10,759	3,600	3,000		16,300			102,263	36,428
Pickaway	452,334	133,941	318,393	1,000	80,000	55,000		39,621	50,000	1,288	100,362							37,032	88,031
Pike	539,624	425,908	113,716	2,329	792	2,037				15,783	32,423	4,093	9,210					401,666	71,291
Portage	4,857,744	3,251,183	1,606,561	327,916	564,890	1,111,711	256,080	421,968	238,389	150,733	64,389	11,504	10,862	480				1,227,351	471,951
Preble	193,548	70,828	122,720	69,898	122,600			650		280	120								
Richland	862,027	345,968	516,059	81,068	208,967			179,491	23,175	6,521	225,851	837						78,051	58,066
Ross	748,669	402,115	346,554	48,359	61,903	79,085	57,000	175,885	168,104	15,000	23,589	2,000	16,822					81,786	19,136
Sandusky	4,000	4,000	4,000															4,000	4,000
Scioto	639,329	443,619	195,710	43,338	39,593	50,000	15,000			120,000	15,628							230,281	125,489
Shelby	491,216	230,748	260,468		20	100,000	118,872	60,498	49,234	67,988	85,845	2,262	6,497					78,051	58,066
Stark	5,145,064	2,933,788	2,211,276	81,215	180,110	377,975	157,215	456,134	550,199	1,065,856	720,126	15,200	15,200					937,408	588,426
Summit	88,061	74,458	13,603	10,113				26,164	13,361	191								37,990	242
Trumbull	87,310	69,436	17,874	11,153	17,874	40,025		4,227										14,031	
Tuscarawas	2,146,349	1,080,284	1,066,065	395,883	312,329	61,713	49,791	186,544	225,428	332,054	335,060		56,699		19,783			84,307	86,758
Warren	2,191,007	983,225	1,207,782	451,031	226,724													532,194	981,058
Washington	917,942	539,859	378,083	66,724	70,565	85,000	70,000	198,747	115,016	40,000	51,643	9,456	4,000					139,932	66,859
Wayne	596,274	273,271	323,003	51,682	202,387	49,900	19,300	34,100	42,300	121,089	38,500	7,200	20,516					9,300	
Williams	415,217	319,468	95,749	20,251	78,502	195,755				101,615								1,847	17,247
Wyandot	546,195	322,368	223,827	40,197	97,859	160,000		65,000		5,457	34,000		47,968					51,714	44,000
TOTAL	54,074,604	30,785,474	23,289,130	9,522,629	8,712,065	6,040,576	2,574,531	4,784,687	3,496,218	2,907,606	3,026,119	332,229	456,425	480	205,501			6,992,246	5,028,872

SANDSTONE AND CONGLOMERATE

Sandstone and conglomerate were sold or produced by 23 companies at 31 operations in 14 Ohio counties during 2004. Sales totaled 1,748,115 tons (+6.4 percent from 2003). Geauga, Perry, Trumbull, Lake, and Pike Counties accounted for 86.3 percent of the total sales. Crushed sandstone and conglomerate accounted for 1,697,594 tons of the total sales, and dimension stone accounted for 50,521 tons. Reported known production of sandstone and conglomerate was 1,723,777 tons in 2004. Ohio ranks 12th nationally in production of all dimension stone out of 34 producing states. Ohio ranks 3rd in the production of sandstone dimension stone. The top five states, in descending order of total dimension-stone production, are Indiana, Wisconsin, Georgia, Vermont, and Texas.⁹ National standings for crushed stone are included with Limestone and Dolomite.

The total value¹⁰ of sandstone and conglomerate sold in 2004 was \$39,585,904. Average price per ton was \$21.41 for crushed stone and \$63.89 for dimension stone.

An annual average of 145 employees worked an average of 147 days in 2004 to produce sandstone and conglomerate. Total wages of \$8,242,884 were paid to a total of 228 employees (145 production employees and 83 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$36,153. An additional 8 people (7 production employees and 1 nonproduction employee) were employed by operations mining sandstone and conglomerate along with one or more other mineral commodities.

Crushed stone was used primarily for construction, glass sand, aggregate, and industrial sand. Dimension stone was used primarily for rough construction purposes.

⁹Information from U.S. Geological Survey.

¹⁰Includes reported and estimated values. See footnote 1, p. 1.

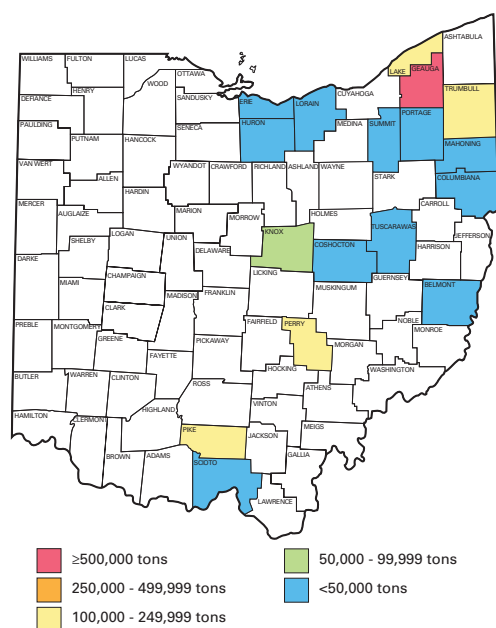


FIGURE 8.—Sales of sandstone and conglomerate in Ohio in 2004, by county.

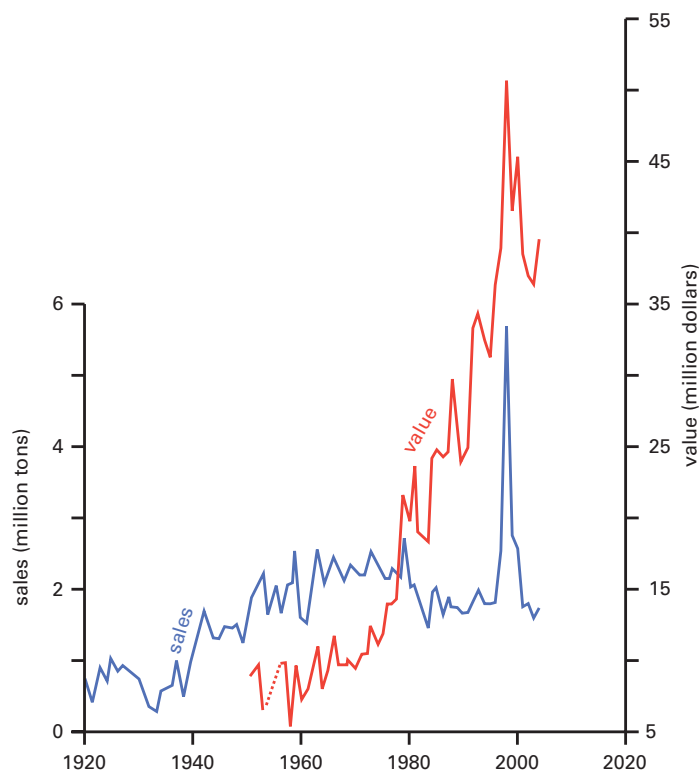


FIGURE 9.—Sales and value of sandstone and conglomerate. Value line dashed where data not available.

TABLE 16.—2004 Ohio sales of crushed sandstone and conglomerate, by county and type

County	Tons sold														
	Total	Foundry sand	Glass sand	Metallurgical pebble	Refractory	Riprap	Aggregate	Silica flour	Polishing/grinding sand	Fire and furnace sand	Engine sand	Frac sand	Construction	Industrial sand	Other/unspecified
Belmont	16,770					16,770									
Columbiana	32,363						18,643						13,720		
Geauga	893,409	72,731	206,908	1,302	38,168		57,000		29,948		10,773	14,605	142,859	19,466	299,649
Huron	13,252					13,252					9,345				
Knox	87,600	138	38,489										8,017	20,837	10,774
Lake	122,832														
Lorain	5,600					5,600							46,376		
Mahoning	19,431						11,000								8,431
Perry	210,287	688	71,792		919			98,089	24			2,070		33,518	3,211
Pike	101,287			26,288	205								463	25,247	49,060
Portage	44,899														44,899
Summit	2,484												2,484		
Trumbull	136,910												136,910		
Tuscarawas	10,470	4,045					225								6,200
TOTAL	1,697,594	77,602	317,189	27,590	39,292	35,622	163,324	98,089	29,972	0	20,118	16,675	350,829	99,068	422,224

TABLE 17.—2004 Ohio sales of dimension sandstone, by county and type

County	Tons sold									
	Total	Refractory	Rough construction	Rubble	Grindstones	Rough architectural	Finished	Curbing	Flagging	Other/unspecified
Coshocton	21,033		21,033							
Erie	7,241		3,557							
Scioto	20,965		20,965	96			3,588			9
Trumbull	9									1,273
Tuscarawas	1,273									
TOTAL	50,521		45,555	96			3,588			1,282

CLAY

Clay was sold or produced by 32 companies at 40 operations in 21 Ohio counties during 2004. Clay sales (including material for captive use) totaled 1,078,952 tons (+10.6 percent from 2003); Tuscarawas, Stark, Greene, Columbiana, and Muskingum Counties accounted for 76.6 percent of the total sales. National rankings for clay are included with Shale. Reported known production of clay was 1,078,952 tons. The total value¹¹ of clay sold (including material for captive use) in 2004 was \$7,320,347. Average price per ton was \$7.06.

An annual average of 24 employees worked an average of 121 days in 2004 mining clay. Total wages of \$848,952 were paid to a total of 36 employees (24 production employees and 12 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$23,572. An additional 37 people (27 production employees and 10 nonproduction employees) were employed by operations mining clay along with one or more other mineral commodities.

Clay mined in Ohio in 2004 was used largely for captive use in the production of common clay products, the landfill industry, and for cement manufacture.

¹¹Includes reported and estimated values. See footnote 1, p. 1.

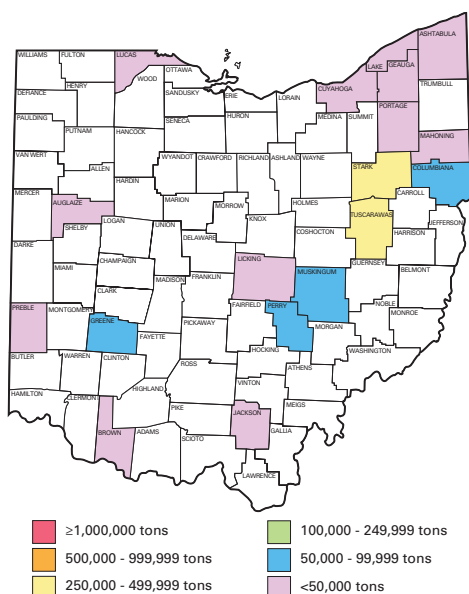


FIGURE 10.—Clay sales in Ohio in 2004, by county.

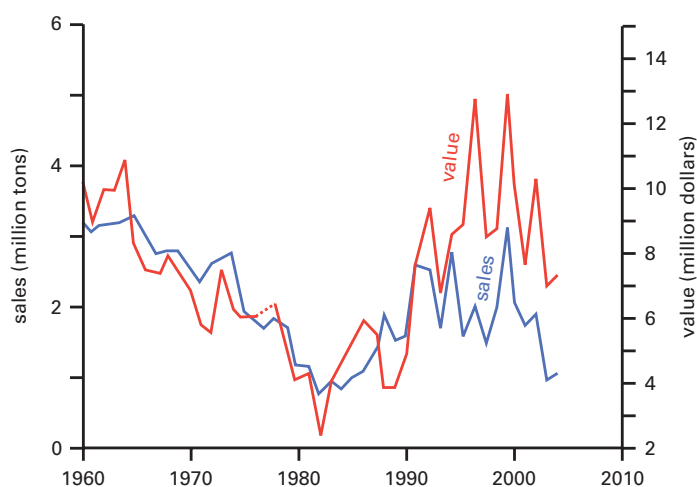


FIGURE 11.—Sales and value of clay in Ohio.
Value line dashed where data not available.

TABLE 18.—2004 Ohio clay sales, by county and type

County	Tons sold								
	Total	Common clay products	Stoneware	Vitrified products	Cement manufacture	Refractories	Construction	Landfill use	Other/ unspecified
Ashtabula	10,062						10,062		
Auglaize	4,785	4,785							
Brown	48,017							48,017	
Columbiana	72,051	67,401						4,650	
Cuyahoga	1,254						1,254		
Geauga	1,521						1,064		457
Greene	90,945				90,945				
Jackson	42,447	42,447							
Lake	22,175							22,175	
Licking	14,560							14,560	
Lucas	9,600							9,600	
Mahoning	33,593								33,593
Muskingum	61,849	10,935	10,300					40,614	
Perry	56,400	54,720		1,680					
Portage	4,704						4,646	58	
Preble	2,944						2,944		
Stark	257,199							257,199	
Tuscarawas	344,846	253,844		29,605				61,397	
TOTAL	1,078,952	434,132	10,300	31,285	90,945	0	19,970	458,270	34,050

SHALE

Shale was sold or produced by 23 companies at 24 operations in 15 Ohio counties during 2004. Shale sales (including material for captive use) totaled 1,274,363 tons (+25.9 percent from 2003); Tuscarawas, Cuyahoga, Marion, Paulding, and Harrison Counties accounted for 84.3 percent of the total sales. Reported production of shale in 2004 was 1,274,363. Ohio ranks 8th nationally in the production of common clay and shale out of 41 producing states. The top five states, in descending order of production, are Georgia, Wyoming, Alabama, Texas, and North Carolina.¹² The total value¹³ of shale sold (including material for captive use) in 2004 was \$6,100,693. Average price per ton was \$4.79.

An annual average of 38 employees worked an average of 169 days in 2004 mining shale. Total wages of \$2,457,426 were paid to a total of 67 employees (38 production employees and 29 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$36,678. An additional 19 people (14 production employees and 5 nonproduction employees) were employed by operations mining shale along with one or more other mineral commodities.

Shale mined in Ohio was largely for captive use in the production of common clay products, for lightweight aggregate, and in the landfill industry.

¹²Information from U.S. Geological Survey.
¹³Includes reported and estimated values. See footnote 1, p. 1.

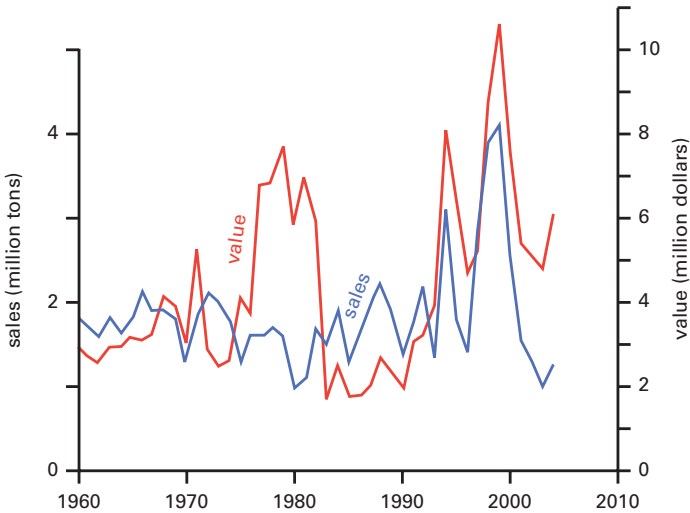
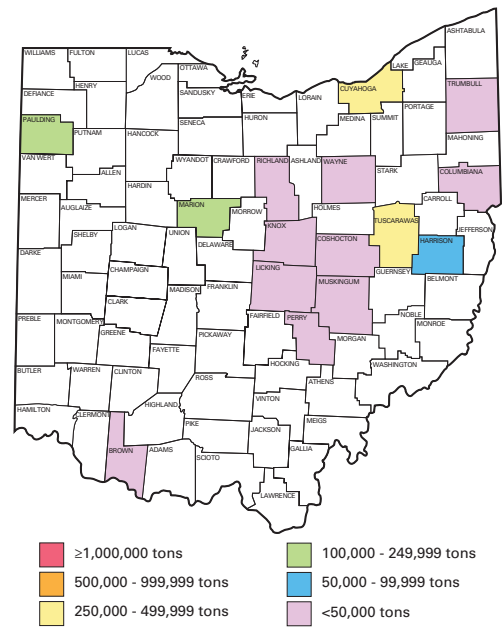


FIGURE 12.—Shale sales in Ohio in 2004, by county.

FIGURE 13.—Sales and value of shale in Ohio.

TABLE 19.—2004 Ohio shale sales, by county and type

County	Tons sold							
	Total	Common clay products	Vitrified products	Cement manufacture	Lightweight aggregate	Construction	Landfill use	Other/ unspecified
Brown	29,580						29,580	
Columbiana	48,745	48,745						
Coshocton	1,611				1,611			
Cuyahoga	330,350				330,350			
Harrison	70,594	37,348					33,246	
Knox	7,037					7,037		
Licking	25,543	25,543						
Marion	212,394	212,394						
Muskingum	6,128							6,128
Paulding	166,081			166,081				
Perry	41,241	41,241						
Richland	26,865	26,865						
Trumbull	6,713				6,713			
Tuscarawas	294,433	287,660	3,940			1,333	1,500	
Wayne	7,048					7,048		
TOTAL	1,274,363	679,796	3,940	166,081	338,674	15,418	64,326	6,128

SALT

Salt was produced by 3 companies at 5 operations in 5 Ohio counties during 2004. Total tonnage of salt sold in 2004 amounted to 4,665,736 tons (+14.1 percent from 2003). Rock salt sales totaled 3,857,572 tons from 2 underground mines, one each in Cuyahoga and Lake Counties. Three brining operations, one each in Licking, Summit, and Wayne Counties, sold a total of 9,800 tons of salt in brine and 798,364 tons of evaporated salt. Reported known production of salt was 4,646,892 tons in 2004. The top five salt-producing states nationally are Louisiana, Texas, New York, Ohio, and Kansas.¹⁴

The total value¹⁵ of the salt sold in 2004 was \$121,403,239. Average price per ton of rock salt was \$20.63 and of salt in brine and evaporated salt was \$57.35. The average price per ton of all salt sold was \$26.02.

An annual average of 253 employees worked an average of 258 days in 2004 to produce salt. Total wages of \$18,273,606 were paid to a total of 442 employees (253 production employees and 189 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$41,343. The primary use for Ohio salt was ice control. Salt also was used as an additive in animal feed, for cattle blocks, and as a commercial and residential water-softening agent.

¹⁴Information from U.S. Geological Survey.

¹⁵Includes reported and estimated values. See footnote 1, p. 1.

GYPSUM

Gypsum was produced by 1 company at 1 operation in Ottawa County during 2004. Gypsum sales and production totaled 39,383 tons (-54.4 percent from 2003). The reported value of the gypsum sold was \$472,596. Average price per ton was \$12.00. Due to flooding of the quarry, a decision to permanently discontinue operations was made in early 2004.

An annual average of 1 employee worked 101 days in 2004 producing gypsum. Total wages of \$70,000 were paid to a total of 2 employees (1 production employee and 1 nonproduction employee). The average annual wage in 2004 was \$35,000. The use of gypsum from this operation is for agricultural applications and cement manufacture.

PEAT

There was no peat production or sales reported in 2004.

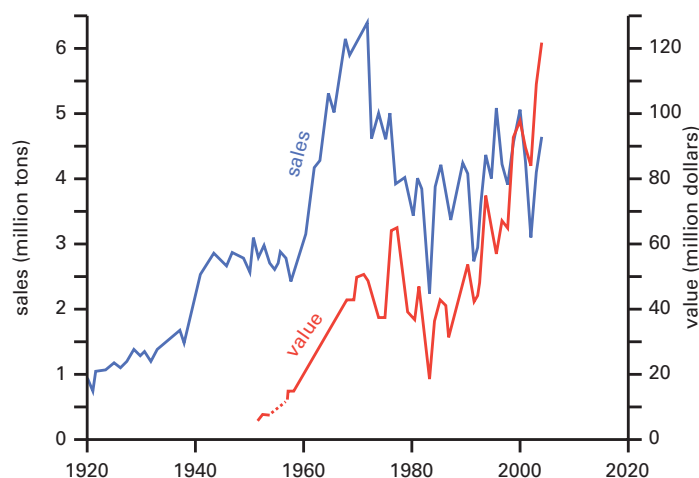


FIGURE 14.—Sales and value of salt in Ohio. Value line dashed where data not available.

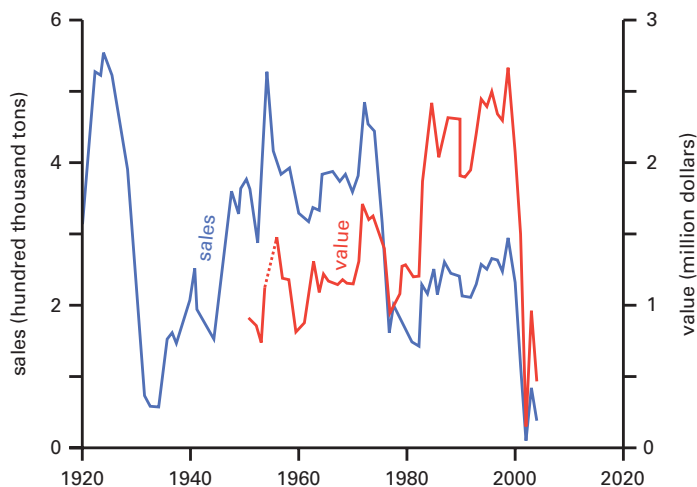


FIGURE 15.—Sales and value of gypsum in Ohio. Value line dashed where data not available. Some figures were calculated because actual figures were not reported in order to maintain confidentiality.

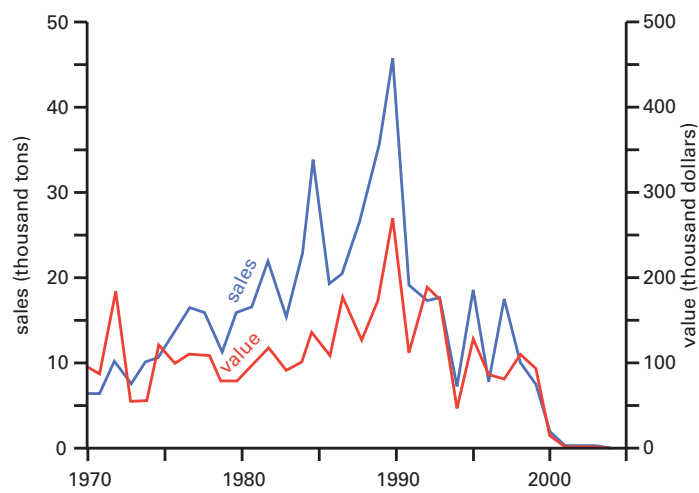


FIGURE 16.—Sales and value of peat in Ohio.

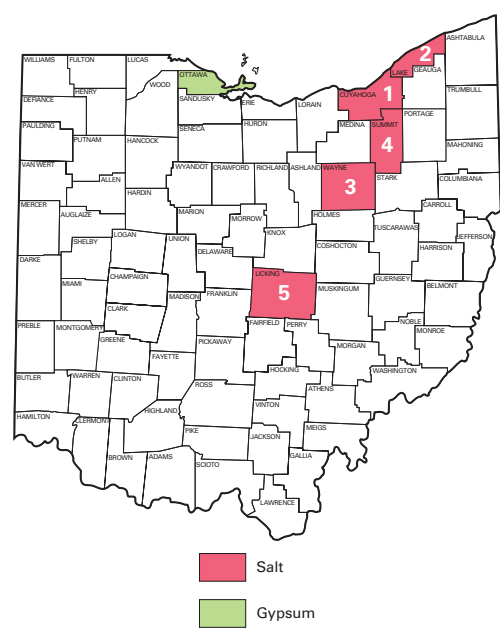


FIGURE 17.—Counties producing salt and gypsum in Ohio in 2004, and their ranking in sales.

OIL AND GAS

*This information is summarized from the 2004 Ohio Department of Natural Resources,
Division of Mineral Resources Management Annual Report.*

The Division of Mineral Resources Management estimates that 578 wells were drilled in 2004, an increase of 70 wells from 2003. Wells were drilled in 42 of Ohio's 88 counties, a decrease of 2 counties from 2004. The top 10 counties in number of new wells drilled in 2004 were Monroe, Stark, Muskingum, Coshocton, Noble, Lake, Cuyahoga, Ashtabula, Morgan, and Tuscarawas. The Division received 501 well completion reports; 456 wells were productive and 55 were dry holes for a completion rate of 89 percent.

The total reported crude oil production in Ohio in 2004 was 5,785,338 barrels, a 2.5 percent increase from 2003. Through 2004, Ohio wells have produced 1,104,651,680 barrels of crude oil. The dollar value of crude oil produced in Ohio in 2004 was \$219,858,469, an increase of 38.2 percent. Average price per barrel in 2004 was \$38.00, a 37.5 percent increase from the 2003 price.

Natural gas production in Ohio in 2004 was 90,301,118 MCF, a 3.6 percent decrease from 2003. This production figure includes an estimated 1,894,070 MCF of gas used on the lease. Through 2004, Ohio wells have produced 8,009,749,438 MCF of natural gas. The dollar value of natural gas produced in Ohio in 2004 was \$577,123,783, an increase of 4.5 percent from 2003. The value of the estimated volume of gas used on the lease was not used in computing the total dollar value. The average price per MCF in 2004 was \$6.65, an increase of \$0.75 per MCF from 2003.

The combined total value of Ohio oil and gas production in 2004 was \$796,982,247, an increase of 12.5 percent from 2003.

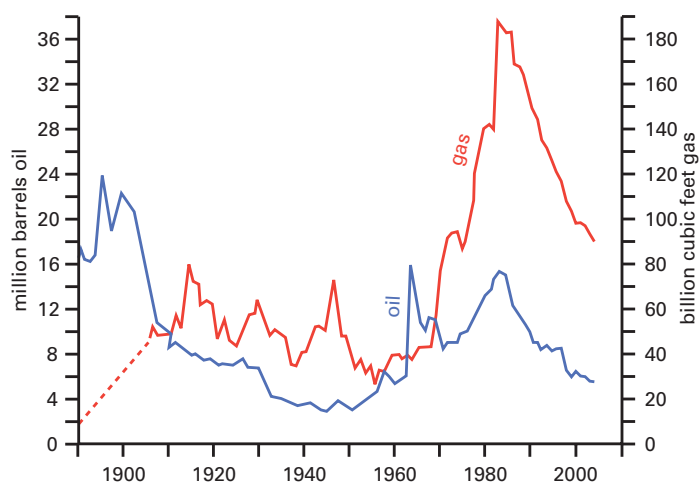


FIGURE 18.—Production of oil and gas in Ohio.
Gas line dashed where data not available.

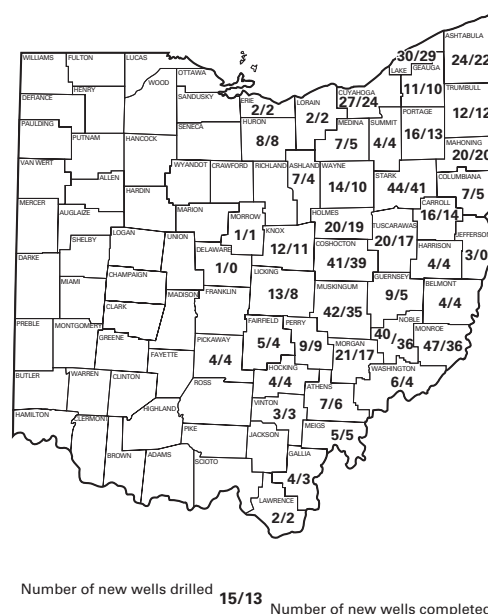


FIGURE 19.—New wells drilled for oil and gas
in 2004, by county.

TABLE 20.—2004 Ohio summary of new oil and gas well completions by county

County ¹	Development wells		Exploratory wells		Total wells	Percent productive	Drilled footage		
	Productive	Dry	Productive	Dry			Productive	Dry	Total
Ashland	2	2	0	0	4	50	1,355	2,712	4,067
Ashtabula	17	1	2	2	22	86	100,377	18,485	118,862
Athens	5	0	1	0	6	100	9,204	0	9,204
Belmont	3	0	1	0	4	100	10,419	0	10,419
Carroll	14	0	0	0	14	100	75,387	0	75,387
Columbiana	1	0	1	3	5	40	11,945	22,570	34,515
Coshocton	34	3	0	2	39	87	147,525	30,111	177,636
Cuyahoga	23	0	0	1	24	96	78,239	5,249	83,488
Erie	1	0	0	1	2	50	1,680	3,832	5,512
Fairfield	2	2	0	0	4	50	7,136	8,377	15,513
Gallia	2	0	0	1	3	67	3,960	7,146	11,106
Geauga	10	0	0	0	10	100	41,944	0	41,944
Guernsey	3	0	0	2	5	60	19,415	15,122	34,537
Harrison	4	0	0	0	4	100	7,492	0	7,492
Hocking	2	1	0	1	4	50	5,615	9,015	14,630
Holmes	13	2	1	3	19	74	58,743	30,047	88,790
Huron	0	7	1	0	8	13	716	6,581	7,297
Knox	10	1	0	0	11	91	32,274	4,762	37,036
Lake	27	0	1	1	29	97	90,164	6,355	96,519
Lawrence	1	0	1	0	2	100	8,072	0	8,072
Licking	8	0	0	0	8	100	20,916	0	20,916
Lorain	2	0	0	0	2	100	1,582	0	1,582
Mahoning	20	0	0	0	20	100	110,897	0	110,897
Medina	5	0	0	0	5	100	15,148	0	15,148
Meigs	5	0	0	0	5	100	19,427	0	19,427
Monroe	35	0	1	0	36	100	93,374	0	93,374
Morgan	16	0	1	0	17	100	56,905	0	56,905
Morrow	0	1	0	0	1	0	0	3,209	3,209
Muskingum	25	4	3	3	35	80	141,775	44,883	186,658
Noble	31	0	1	4	36	89	106,820	27,893	134,713
Perry	8	0	1	0	9	100	23,440	0	23,440
Pickaway	2	1	0	1	4	50	4,830	5,035	9,865
Portage	13	0	0	0	13	100	62,996	0	62,996
Stark	41	0	0	0	41	100	204,370	0	204,370
Summit	4	0	0	0	4	100	15,856	0	15,856
Trumbull	12	0	0	0	12	100	57,512	0	57,512
Tuscarawas	15	1	0	1	17	88	81,357	14,395	95,752
Vinton	3	0	0	0	3	100	4,189	0	4,189
Washington	3	1	0	0	4	75	10,016	4,571	14,587
Wayne	8	2	0	0	10	80	34,222	10,654	44,876
TOTAL	430	29	16	26	501	89	1,777,294	281,004	2,058,298

¹No wells were drilled in these counties in 2004: Adams, Allen, Auglaize, Brown, Butler, Champaign, Clark, Clermont, Clinton, Crawford, Defiance, Delaware, Fayette, Franklin, Greene, Hamilton, Hancock, Hardin, Henry, Highland, Jackson, Jefferson, Lucas, Madison, Marion, Mercer, Miami, Montgomery, Ottawa, Paulding, Pike, Preble, Putnam, Richland, Sandusky, Scioto, Seneca, Shelby, Union, Van Wert, Warren, Williams, Wood, and Wyandot.

TABLE 21.—2004 Ohio summary of new oil and gas well completions by geologic unit

Geologic unit	No. of producing wells	No. of dry holes	Total no. of wells	Percent productive	Total footage
Pennsylvanian undifferentiated	6	0	6	100	2,678
Upper Mississippian undifferentiated	1	0	1	100	1,775
Lower Mississippian “1st & 2nd Berea”	22	2	24	92	31,969
Devonian					
Ohio Shale	76	7	83	92	195,416
Oriskany	5	1	6	83	22,458
Silurian					
Salina/Lockport	2	1	3	67	5,928
“Clinton-Medina”	279	1	280	100	1,216,268
Lower Ordovician					
Black River/					
Gull River	3	1	4	75	24,570
Beekmantown	12	4	16	75	109,574
Cambrian-Ordovician					
Rose Run	27	26	53	51	329,784
Cambrian					
Trempealeau	13	9	22	59	99,930
Kerbel-Mt. Simon	0	3	3	0	17,948
TOTAL	446	55	501	89	2,058,298

TABLE 22.—*Ohio counties¹ and their state mine number abbreviations²*

<i>County</i>	<i>Abbreviation</i>	<i>County</i>	<i>Abbreviation</i>	<i>County</i>	<i>Abbreviation</i>
Adams	Ads	Hamilton	Hmn	Noble	Ne
Allen	An	Hancock	Hk	Ottawa	Oa
Ashland	Ald	Hardin	Hdn	Paulding	Pg
Ashtabula	Asa	Harrison	Hn	Perry	Py
Athens	As	Henry	Hy	Pickaway	Pky
Auglaize	Ae	Highland	Hd	Pike	Pke
Belmont	Bt	Hocking	Hg	Portage	Pe
Brown	Bn	Holmes	Hs	Preble	Pre
Butler	Br	Huron	Hrn	Putnam	Pm
Carroll	Cl	Jackson	Jkn	Richland	Rd
Champaign	Cpn	Jefferson	Jfn	Ross	Rs
Clark	Ck	Knox	Kx	Sandusky	Sy
Clermont	Ct	Lake	Lke	Scioto	So
Clinton	Cln	Lawrence	Le	Seneca	Sa
Columbiana	Ca	Licking	Lg	Shelby	Shy
Coshocton	Cn	Logan	Lgn	Stark	Sk
Crawford	Cd	Lorain	Ln	Summit	St
Cuyahoga	Cya	Lucas	Ls	Trumbull	Tl
Darke	Dke	Madison	Mdn	Tuscarawas	Ts
Defiance	De	Mahoning	Mg	Union	Un
Delaware	Del	Marion	Mn	Van Wert	Vt
Erie	Ee	Medina	Ma	Vinton	Vn
Fairfield	Fd	Meigs	Ms	Warren	Wan
Fayette	Fe	Mercer	Mr	Washington	Wn
Franklin	Fn	Miami	Mi	Wayne	We
Fulton	Ftn	Monroe	Me	Williams	Ws
Gallia	Ga	Montgomery	My	Wood	Wd
Geauga	Gea	Morgan	Mon	Wyandot	Wt
Greene	Ge	Morrow	Mw		
Guernsey	Gy	Muskingum	Mum		

¹Henry and Defiance Counties reported no production or sales of mineral commodities in 2004.²As used for State mine numbers.

2004 COAL COMPANIES WITH SALES OR PRODUCTION

Company	Number of mines	Production (tons)	Sales (tons)
American Energy Corp.	1	5,820,659	5,686,326
Anthony Mining Co., Inc.	3	253,939	253,939
B & N Coal, Inc.	3	488,025	488,025
Belden Brick Co.	4	42,117	42,117
Blue Jay Enterprises of Ts. Co., Inc.	1	970	970
Buckeye Industrial Mining Co.	9	830,156	830,155
Buckingham Coal Co., Inc.	1	1,215,027	1,192,106
CAM Ohio, L.L.C.	1	1,632,079	1,592,725
Cedar Heights Clay Co.	1	3,388	3,388
CONSOL Energy, Inc.	1	740,794	792,645
Cravat Coal Co.	7	656,602	651,590
D. & D. Mining Co.	1	16,616	16,616
Daron Coal Co., Inc.	1	291,005	287,284
ENZ, Inc.	1	112,029	112,029
F. & M. Coal Co.	1	20,042	20,042
Franklin Mineral	1	11,830	11,830
K.C.C.I.	1	681	681
Kimble Clay & Limestone Co.	5	432,726	432,726
Marietta Coal Co.	7	346,681	310,424
Ohio Valley Coal Co.	1	4,536,509	4,535,170
Oxford Mining Co., Inc	21	3,517,757	3,407,037
Sands Hill Coal Co., Inc.	4	744,967	744,967
Schaney Mining	1	2,514	2,514
Sidwell Materials, Inc.	2	20,509	20,509
Solomon's Mines, Inc.	1	2,674	2,674
Sterling Mining Co.	3	668,724	668,724
Thompson Bros. Mining Co.	1	1,268	1,268
Tusky Coal L.L.C.	1	106,193	104,968
Valley Mining, Inc.	5	480,390	480,369
Waste Management	1	16,011	16,011
Waterloo Coal Co., Inc.	3	447,733	447,735
Total: 31 companies	94	23,460,615	23,157,564

2004 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

The designation (u) indicates an underground mine.

To convert short tons to metric tons, multiply the given tonnage by 0.907185.

Name, address, telephone number, and president/ owner/ manager of company	Name of mine	County	2004 production (tons)	State mine number	Mining and reclamation permit number
American Energy Corp. 43521 Mayhugh Hill Rd., TR 88 Beallsville, OH 43950 740-795-5220 Robert E. Murray, pres.	Century Mine (u)	Belmont	5,820,659	Bt-67	D-0425
Anthony Mining Co., Inc. P.O. Box 1298 Steubenville, OH 43952 740-266-8100 Albert Carapellotti, pres.	Rose Valley Cherry Valley Lions Club	Harrison Harrison Jefferson	12,492 92,861 148,586	Hn-222 Hn-767 Jfn-AN	D-0587 D-1124 D-1173
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 740-783-3575 Carl Baker, Jr., pres.	Ullman Whigville Shilling	Noble Noble Washington	153,187 182,223 152,615	Ne-151 Ne-BN4 Ne-1008	D-0807 D-2157 D-0706
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 Robert F. Belden, pres.	Moomaw Pit Belden Pit Wallick Pit Shanesville Pit	Tuscarawas Tuscarawas Tuscarawas Tuscarawas	7,470 20,540 8,777 5,330	Ts-1517 Ts-1646 Ts-1841 Ts-1939	IM-46 IM-44 IM-45 IM-47
Blue Jay Enterprises of Ts. Co., Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland Ervin, pres.	Blue Jay #1	Tuscarawas	970	Ts-BJ	IM-1285
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Koch Ingledue Henderson McPherson Snyder Deep Mine #10 (u) Dry Run Keith Evanich Lozier	Carroll Columbiana Columbiana Columbiana Jefferson Jefferson Stark Stark Stark	24,667 86,777 183,433 64,640 301,965 5,658 80,012 50,077 32,927	Cl-B3 Ca-B1 Ca-B2 Ca-BIM Jfn-BI Jfn-BI2 Sk-B7 Sk-B8 Sk-B9	D-2184 D-2003 D-2162 D-1112 D-1180 D-2104 D-2171 D-2197 D-2207
Buckingham Coal Co., Inc. P.O. Box 157 Glouster, OH 45732-0157 740-767-9902 James F. Graham, pres.	Buckingham Mine No. 2 (u)	Athens	1,215,027	As-B	D-1163
CAM Ohio, L.L.C. P.O. Box 176 Cadiz, OH 43907 740-942-8220 David G. Zatezalo, pres.	Nelms Mine- Cadiz Portal (u)	Harrison	1,632,079	Hn-710	D-0426
Cedar Heights Clay Co. 50 Portsmouth Rd. P.O. Box 295 Oak Hill, OH 45656-0295 740-682-7794 William T. Brown, pres.	Harrison	Jackson	3,388	Jkn-CH2	IM-1302
CONSOL Energy, Inc. 1800 Washington Rd. Pittsburgh, PA 15241-1421 412-831-4000 J Brett Harvey, pres.	Mahoning Valley Mine 937	Harrison	740,794	Hn-700	D-51, D-54, D-334, D-414, D-784

2004 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS (cont.)

Name, address, telephone number, and president/ owner/ manager of company	Name of mine	County	2004 production (tons)	State mine number	Mining and reclamation permit number
Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael T. Puskarich, pres.	Johnen Lady Rend Chini Carrollton Poplar Ridge Rankin Pleasant Hill	Belmont Belmont Belmont Carroll Harrison Harrison Jefferson	16,4418 17,847 126,602 3,892 71,753 258,763 13,327	Bt-C3 Bt-C4 Bt-C5 Cl-M2 Hn-C4 Hn-C6 Jfn-C1	D-2087 D-2210 D-2189 D-2014 D-2131 D-2183 D-2199
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	Jean Kay Mine	Mahoning	16,616	Mg-D	D-2164
Daron Coal Co., Inc. 42600 Deersville Ridge Rd Cadiz, OH 43907 740-942-8223 Chuck Ungurean, pres.	Standingstone Mine	Harrison	291,005	Hn-D	D-1181
ENZ, Inc. P.O. Box 405 Magnolia, OH 44643 330-866-4510 James R. Demuth, pres.	Sickafoose Pit	Stark	112,029	Sk-208	D-1015
F. & M. Coal Co. 3925 County Rd. 56 Toronto, OH 43964 740-544-5203 Edward Fiala, partner	F. & M. Strip	Jefferson	20,042	Jfn-FM	D-1147
Franklin Mineral P.O. Box 207 Dundee, OH 44624 330-827-3135 Thomas Flynn, pres.	Franklin Mineral Kohl Pit One	Tuscarawas	11,830		D-1189
K.C.C.I. P.O. Box 1298 Steubenville, OH 43952 740-543-4389 David Krulock, pres.	Apex	Jefferson	681	Jfn-K	IM-1164
Kimble Clay & Limestone Co. 3596 State Route 39 W Dover, OH 44622-9801 330-343-1226 Keith B. Kimble, pres.	Kimble Clay & Limestone Co. Kimble Clay & Limestone Co. Kimble Clay & Limestone Co. Kimble Clay & Limestone Co. Kimble Clay & Limestone Co.	Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas	12,657 32,481 65,254 236,477 85,857	Ts-1727 Ts-2019 Ts-K4 Ts-K7 Ts-M	IM-9 D-0852 D-1079 D-2079 D-2066
Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 John Nicolozakes, mgr.	North American Hostetler-Hapapuro Fox Farms Hines/Triple B McGraw East Fox Farms Salt Run	Belmont Belmont Belmont Belmont Belmont Harrison Jefferson	1,167 24,550 32,586 127,277 6,022 32,586 122,493	Bt-1162 Bt-1171 Bt-M11 Bt-M13 Bt-MC2 Bt-M11 Jfn-M	D-0720 D-0674 D-2149 D-2196 D-2144 D-2149 D-2180
Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 740-926-1351 Michael Loiacono, pres.	Powhatan No. 6 (u)	Belmont	4,536,509	Bt-68	D-0360

2004 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS (cont.)

Name, address, telephone number, and president/ owner/ manager of company	Name of mine	County	2004 production (tons)	State mine number	Mining and reclamation permit number
Oxford Mining Co., Inc. 544 Chestnut St. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	Boswell	Belmont	218,970	Bt-OX	D-0676
	Egypt Valley East	Belmont	188,415	Bt-OX1	D-0680
	Boswell	Belmont	253,245	Bt-OX2	D-2122
	Lafferty	Belmont	57,506	Bt-OX3	D-2198
	Dailey	Columbiana	45,441	Ca-CE2	D-2097
	Plainfield	Coshocton	413,709	Cn-H3	D-2178
	Miley	Coshocton	12,540	Cn-HL1	D-2019
	Little Africa	Coshocton	41,802	Cn-OX2	D-2202
	Sexton	Harrison	314,435	Hn-C5	D-2161
	Martin	Harrison	237,980	Hn-O	D-2121
	McConnell	Harrison	125,364	Hn-OX	D-2022
	Dairy Jean	Jefferson	6,359	Jfn-O	D-2215
	Adamsville East	Muskingum	105,204	Mum-OX2	D-2110
	New Lexington	Perry	717,107	Py-O	D-1086
	Barr Farm	Stark	199,528	Sk-235	D-865
	Stillwater	Tuscarawas	6,617	Ts-2043	D-1047
	Stone Creek	Tuscarawas	452,583	Ts-H4	D-1149
	Stone Creek	Tuscarawas	40,573	Ts-H7	D-2109
	Strasburg Slurry	Tuscarawas	4,324	Ts-HC	D-0981
	Harper	Tuscarawas	16,158	Ts-O	D-2206
	Stillwater	Tuscarawas	59,897	Ts-O2	D-361
Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Bonny C. Huffman, pres.	Pearce	Jackson	16,521	Jkn-S4	D-2009
	Sands Hill Rockcamp II	Vinton	1,292	Jkn-S2	D-1087
	Big Valley	Vinton	576,438	Vn-S4	D-2114
	Stanton	Vinton	150,716	Vn-S5	D-2156
Schaney Mining 47134 Giacobbi Rd. Jewett, OH 43986 740-937-2515 Melvin Schaney, owner	Kuchan	Harrison	2,514	Hn-SM1	D-2195
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2394 Jeffrey R. Sidwell, pres.	Bellaire Stone	Belmont	8,280	Bt-1190	IM-1089, D-1061 D-0998
	Uniontown Stone	Belmont	12,229	Bt-B	
Solomon's Mines, Inc. 7732 Salem-Unity Rd. Salem, OH 44460 330-337-0123 Jack Solomon, pres.	Solomon's Mines, Inc.	Columbiana	2,674	Ca-SM	IM-1258
Sterling Mining Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452 330-549-2165 W. Thomas Mackall, pres.	Sterling-West (CH Deep) (u)	Carroll	409,986	Cl-S1	D-2091
	Sterling South (u)	Jefferson	247,328	Jfn-ST	D-1019
	Sterling-Shean Hill	Jefferson	11,410	Jfn-ST2	D-2187
Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, owner	North Lima Mine	Mahoning	1,268	Mg-T	D-1168
Tusky Coal LLC P.O. Box 188 Dennison, OH 44621 740-922-2799 John A McNab, pres.	Tusky #1 (u)	Tuscarawas	106,193	Ts-T	D-2177

2004 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS (cont.)

Name, address, telephone number, and president/ owner/ manager of company	Name of mine	County	2004 production (tons)	State mine number	Mining and reclamation permit number
Valley Mining, Inc. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 740-922-3942 Mary J. Brown, pres.	Egypt Valley	Belmont	371,106	Bt-VM	D-1059
	Sapp	Jefferson	33,756	Jfn-830	D-0983
	Piergallini	Jefferson	12,111	Jfn-831V	D-1026
	Braver	Tuscarawas	6,892	Ts-V2	D-2013
	Sentz	Tuscarawas	56,525	Ts-VM1	D-1155
Waste Management 7916 Chapel St. SE Waynesburg, OH 44688 330-866-3265 Jerry R. Ross, pres.	Harrison Sanitary Landfill	Harrison	16,011	Hn-CD	D-1105
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-286-5633 T. L. Darlington, Jr., pres.	Bowman Strip	Jackson	142,911	Jkn-367	D-0594, D-968, D-1083, D-1167, D-2059
	Green Pit	Vinton	2,774	Vn-182	D-0631
	Dundas Pit	Vinton	302,048	Vn-191	D-0867, D-0957, D-1004

2004 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND ASSOCIATED FACILITIES, BY COUNTY

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

County	Name, address, telephone number, and president/owner/manager of company	Name of plant	Township	State mine number	Mining and reclamation permit number	Type of facility
Belmont	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael Puskarich, pres.	Bellaire Dock	Pultney	Bt-876	D-0687	loading dock
	Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 George Nicolozakes, pres.	Loading Dock	Pultney	Bt-936	D-0216	loading dock, prep plant—jig, flotation, centrifugal dryer, crushers, screens
	Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 740-926-1351 John Forelli, pres.	Powhatan #6	Smith, Washington	Bt-68	D-0360	prep plant—jigs, cyclones, centrifuges, thickeners, filters, screens
	Ohio Valley Transloading Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 216-765-1240 Robert E. Murray, pres.	Harbour Facility	York	Bt-1198		dock
	Rayle River Coal 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 George Nicolozakes, pres.	Rayle River Terminal	Pultney	Bt-1191		coal transfer facility
Columbiana	Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Kensington Preparation Plant	West	Ca-879	D-0806	prep plant—heavy-media washer, cyclone, centrifuges, breaker
	State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 330-426-9611 Charles H. Muse, Jr., pres.	State Line Resources, Inc.	Middleton	Ca-505	D-0223	prep plant—crushers, cyclones, screens
Coshocton	Conesville Coal Preparation Co. 14561 Twp. Rd. 263 Conesville, OH 43811 740-829-2392 H. D. Leppla, gen. mgr.	Conesville Coal Preparation Co.	Franklin	Cn-810		prep plant—jig, cyclones, froth cells, flotation, filter press, screens, dryers
	Oxford Mining Co., Inc. 544 Chestnut St. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	Lori Tipple	Franklin	Cn-736	D-0671	tipple
	Sugarcreek Clay & Limestone, Inc. P.O. Box 402 Sugarcreek, OH 44681 330-852-4440 Daniel D. Miller, pres.	Sugarcreek Tipple	Crawford	Cn-825	D-0801	tipple

**2004 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY (cont.)**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant	Township	State mine number	Mining and reclamation permit number	Type of facility
Gallia	McCarthy Construction 60 Dickason St. Jackson, OH 45640 740-286-7501 Rick McCarthy, owner	Conrick Dock	Addison	Ga-216	D-0739	dock
	Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Alan C. Arthur, pres.	Sands Hill Coal Co., Inc.	Addison	Ga-183	D-0834	tipple
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Waterloo Dock #1	Addison	Ga-229	D-0725	dock, tipple
Harrison	CAM Ohio, L.L.C. P.O. Box 176 Cadiz, OH 43907 740-942-8220 David G. Zatezalo, pres.	Nelms Prep Plant	Green	Hn-169	D-0424	prep plant—heavy-media vessel, heavy-media cyclones, spirals, dryers, thickeners, crushers, screens
	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael Puskarich, pres.	22 Shop	Moorefield	Hn-230		shop
Jackson	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Bowman Strip	Jefferson, Madison	Jkn-367	D-0285	prep plant—jig, crushers, breaker, screens, dryers, wash tables
Mahoning	Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, owner	Thompson Bros. Mining Co.	Springfield	Mg-588	D-0711	tipple
Meigs	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Waterloo Dock #3	Salisbury	Ms-285	D-0698	tipple, dock
Perry	Crooksville Coal Co., Inc. P.O. Box 149 Crooksville, OH 43731 740-982-6651 Ralph L. Allen, pres.	Crooksville Tipple	Salt Creek	Py-339	D-0692	tipple
Scioto	Norfolk Southern Railroad 914 Hayport Rd. Wheelersburg, OH 45694 740-574-8491 Charles G. Howard, asst. to mgr.	NS Wheelersburg Terminal	Porter	So-96		dock

**2004 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY (cont.)**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant	Township	State mine number	Mining and reclamation permit number	Type of facility
Tuscarawas	Central Fuel Co. County Rd. 55 P.O. Box 165 New Philadelphia, OH 44663 330-339-5049 Keith B. Kimble, gen. mgr.	Central Fuel Co.	York	Ts-1938	D-0264	prep plant—jig, screen, dryers
	Oxford Mining Co. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	Strasburg Wash Plant	Franklin, Lawrence	Ts-1942	D-0287	prep plant—jigs, cyclones, centrifuges, crushers, screens, picking tables
		Slurry Wash Plant	Franklin, Lawrence	Ts-HC	D-0981	prep plant—cyclones
Vinton	Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Alan C. Arthur, pres.	Sands Hill Tipple/ Preparation Plant	Clinton	Vn-641	D-0169, D-0309	tipple, prep plant—heavy-media washers, flotation, cyclones, centrifuge, crushers, screens, dryer, picking tables, magnets
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Benedict Tipple Dundas Tipple	Swan Clinton	Vn-145 Vn-178	D-0159 D-0185	tipple tipple

2004 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY

NOTE: This directory lists only the coal-producing operations. It does not list tipples, loading docks, preparation plants, or other active, nonproducing operations that would contribute to employment and wage statistics presented in tables 9-10. For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C). There is no correlation between the "Seam Number" column and the "Production Tonnage" column. The Seam Number column represents the seam(s) mined at the operation. No production tonnage is listed by seam. Days in production were estimated for those companies not providing this information. To convert short tons to metric tons, multiply the given tonnage by 0.907185.

SEAM IDENTIFICATION OF PRINCIPAL OHIO COALS

1 Sharon	4 Brookville	6A Lower Freeport	9 Meigs Creek
2 Quakertown	4A Clarion	7 Upper Freeport	11 Waynesburg
3 Lower Mercer	5 Lower Kittanning	7A Mahoning	12 Washington
3A Upper Mercer	5A Strasburg	8 Pittsburgh	H Harlem
3B Tonesta	6 Middle Kittanning	8A Pomeroy-Redstone	W Wilgus

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in produc- tion in 2004	Disposition		Employment			State mine number
			Number	Thick- ness (inches)		Method	Tonnage		Method	Tonnage	Under- ground	Production Sur- face	Non-produc- tion	
ATHENS COUNTY—Total production = 1,215,027														
Buckingham Coal Co., Inc.	Buckingham Mine No. 2	Trimble	6	84	Drift	cont. miner	1,215,027	239	rail other Total	1,074,150 117,956 1,192,106	70	17	As-B	
BELMONT COUNTY—Total production = 11,967,388														
American Energy Corp.	Century Mine	Wayne, Washington	8	64	Drift	longwall cont. miner Total	5,037,958 782,701 5,820,659	356	rail	5,686,326	320	72	Bt-67	
Cravat Coal Co.	Chini	Wheeling	9	43	Surface	strip auger Total	87,672 38,930 126,602	147	truck water Total	555 126,047 126,602	11	3	Bt-C5	
	Johnen	Wheeling	8 9	48 42	Surface	strip auger Total	114,271 50,147 164,418	176	truck water Total	3,019 161,399 164,418	15	4	Bt-C3	
Lady Rend	Kirkwood	8 9	45 43	Surface	strip auger Total	15,659 2,188 17,847	23	truck	12,632	17	2	Bt-C4		
Marietta Coal Co.	Fox Farms	Flushing	8 9	54 50	Surface	strip auger Total	15,158 17,428 32,586	120	truck	27,646	4	1	Bt-M11 ¹	
Hines/Triple B	Goshen, Warren	8 11	60 30	Surface	strip auger Total	116,074 11,203 127,277	170	truck	119,052	10	3	Bt-M13		

¹See also Harrison County

¹See also Harrison County

2004 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY (cont.)

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in produc- tion in 2004	Disposition		Employment			State mine number
			Number	Thick- ness (inches)		Method	Tonnage		Method	Tonnage	Under- ground	Production	Non- produc- tion	
BELMONT COUNTY (continued)														
Marietta Coal Co. (cont.)	Hostetler-Hapapuro McGraw East	Colerain Wheeling, Richland	11	30	Surface	strip	24,550	120	truck	18,163		5	2	Bt-1171
			8	62	Surface	strip	6,022	80	truck	5,174		2	1	Bt-MC2
			9	48										
	North American	Richland	12	36	Surface	strip	1,167	10	truck	1,084		8	2	Bt-1162
Ohio Valley Coal Co.	Powhatan No. 6	Washington, Smith	8	62	Drift	longwall cont. miner	3,985,854	346	rail	4,523,055	246		227	Bt-68
						Total	550,655		truck	12,115				
						Total	4,536,509		Total	4,535,170				
Oxford Mining Co., Inc.	Lafferty	Union	9	37	Surface	strip	57,506	88	truck	57,506		6	1	Bt-OX3
			11	28										
			9	40	Surface	strip	182,511	188	truck	188,415		11	1	Bt-OX1
	Egypt Valley East	Warren			auger	5,904								
					Total	188,415								
Boswell	Warren	Warren	8	45	Surface	strip	186,710	254	truck	215,270		23	2	Bt-OX
			9	40		auger	32,260							
					Total	218,970								
Boswell	Warren	Warren	8	45	Surface	strip	222,453	254	truck	251,283		10	1	Bt-OX2
			9	40		auger	30,792							
					Total	253,245								
Sidwell Materials, Inc.	Bellaire Stone Uniontown Stone Egypt Valley	Pultney Wheeling Kirkwood, Warren	8		Surface	strip	8,280	20	truck	8,280		6	2	Bt-1190
			8	56	Surface	strip	12,229	45	truck	12,229		6	2	Bt-B
			8	38	Surface	strip	325,147	261	truck	371,106		27	7	Bt-VM
			9	42		auger	45,959							
					Total	371,106								
CARROLL COUNTY—Total production = 438,545														
Buckeye Industrial Mining Co.	Koch	Fox	6	24	Surface	strip	24,667	90	truck	24,666		6	1	Cl-B3
Cravat Coal Co.	Carrollton Sterling-West (CH Deep)	Lee, Perry Fox	H	14	Surface	strip	3,892	8	truck	3,892		2		Cl-M2
			7A	36	Drift	cont. miner	409,986	253	truck	409,986	27		1	Cl-S1
COLUMBIANA COUNTY—Total production = 382,965														
Buckeye Industrial Mining Co.	McPherson Ingledue Henderson	Franklin Center West	7A	26	Surface	strip	64,640	223	truck	64,640		8	1	Ca-B1M
			7A	24	Surface	strip	86,777	315	truck	86,777		7	1	Ca-B1
			7	28	Surface	strip	180,385	288	truck	183,433		6	1	Ca-B2
					auger	3,048								
					Total	183,433								
Oxford Mining Co., Inc.	Dailey	Elk Run	7	34	Surface	strip	36,209	108	truck	45,441		2		Ca-CE2
			7A	24		auger	9,232							
					Total	45,441								

Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	7A		Surface	strip	2,674	25	truck	2,674	1	Ca-SM
COSHOCTON COUNTY—Total production = 468,051												
Oxford Mining Co., Inc.	Little Africa	Linton	5	35	Surface	strip	41,802	40	truck	41,802	5	Cn-OX2
			6	28	Surface	strip	12,540	14	truck	12,540	3	Cn-HL1
			6	28	Surface	strip	360,242	255	truck	413,709	25	3 Cn-H3
			5	35	Surface	strip	53,467					
			6	28	Surface	auger	Total	413,709				
HARRISON COUNTY—Total production = 3,828,637												
CAM Ohio, L.L.C.	Nelms Mine-Cadiz Portal	Green, Cadiz, Archer	6A	60	Drift	cont. miner	1,632,079	357	rail	1,592,725	141	29 Hn-710
Anthony Mining Co., Inc.	Cherry Valley	Green	8	56	Surface	strip	91,111	271	truck	92,861	13	7 Hn-767
			8A	20	Surface	auger	1,750					
					Surface	auger	Total	92,861				
			8	56	Surface	strip	12,492		truck	12,492	1	Hn-222
			8A	20	Surface	strip						
Waste Management	Harrison Sanitary Landfill	Archer	9	30	Surface	strip	16,011	55	truck	16,011	8	1 Hn-CD
			8A		Surface	strip	740,794	230	truck	792,645	61	9 Hn-700
			9		Surface	strip	71,753	72	truck	9,116	2	Hn-C4
			8A	24	Surface	strip			water	62,840		
			8	40	Surface	strip			Total	71,956		
CONSOL Energy, Inc.	Mahoning Valley Mine 937	Athens	8	40	Surface	strip	258,763	229	truck	9,236	9	3 Hn-C6
					Surface	strip			water	249,527		
					Surface	strip			Total	258,763		
			8	50	Surface	strip	291,005	302	rail	175,544	12	5 Hn-D
			8A	18	Surface	strip			truck	111,740		
Daron Coal Co., Inc.	Standingstone Mine	Cadiz	9	36	Surface	strip			Total	287,284		
			8	54	Surface	strip	15,157	120	truck	27,646	5	2 Bt-M11 ²
			8A	50	Surface	auger	17,429					
			9		Surface	auger	Total	32,586				
					Surface	strip	224,269	123	truck	237,980	7	1 Hn-O
Marietta Coal Co.	Fox Farms	Athens	8	61	Surface	strip	13,711					
					Surface	auger	Total	237,980				
			9	45	Surface	strip	122,483	116	truck	125,295	4	Hn-OX
					Surface	auger	2,881					
					Surface	auger	Total	125,364				
Oxford Mining Co., Inc.	Martin	Athens	8	50	Surface	strip	301,023	254	truck	301,953	22	3 Hn-C5
			8A	30	Surface	strip	13,412					
			9	30	Surface	auger	Total	314,435				
					Surface	strip						
					Surface	auger						

See also Belmont County

²See also Belmont County

2004 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY (cont.)

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in produc- tion in 2004	Disposition		Employment			State mine number
			Number	Thick- ness (inches)		Method	Tonnage		Method	Tonnage	Under- ground	Pro- duc- tion	Sur- face	
HARRISON COUNTY (continued)														
Schaney Mining	Kuchan	Green	8		Surface	strip	2,514	92	truck	2,514		2		Hn-SM1
JACKSON COUNTY—Total production = 16,220														
Cedar Heights Clay Co.	Harrison	Madison	5	30	Surface	strip	3,388	60	truck	3,388		2		Jkn-CH2
Sands Hill Coal Co., Inc.	Pearce	Milton	5	20	Surface	strip	16,521	254	truck	8,470		1		Jkn-S4
			6	14					water	8,051				
			7	15					Total	16,521				
Waterloo Coal Co., Inc.	Bowman Strip	Madison, Bloomfield, Jefferson	4	14	Surface	strip	142,911	155	truck	142,911		19		Jkn-367
			5	40										
			6	48										
			7											
JEFFERSON COUNTY—Total production = 923,716														
Anthony Mining Co., Inc.	Lions Club	Smithfield	8	56	Surface	strip	146,402	271	truck	148,586		13		Jfn-AN
			8A	20		auger	2,184							
			9	24		Total	148,586							
Buckeye Industrial Mining Co.	Snyder Deep Mine 10	Ross	6A	36	Drift	cont. miner	301,965	240	truck	301,965	20			Jfn-BI
Cravat Coal Co.	Dry Run	Ross	7	24	Surface	strip	5,658	57	truck	5,658		2		Jfn-BI2
	Pleasant Hill	Island Creek	8	36	Surface	strip	13,327	60	truck	13,327		5		Jfn-C1
			8A	18										
F. & M. Coal Co.	F. & M. Strip	Wayne	8	54	Surface	strip	20,042	307	truck	20,042		3		Jfn-FM
K.C.C.I.	Apex	Springfield	8	48	Surface	strip	681		truck	681				Jfn-K
Marietta Coal Co.	Salt Run	Wells	8	62	Surface	strip	79,880	160	truck	111,659		8		Jfn-M
						auger	42,613							
						Total	122,493							
Oxford Mining Co., Inc.	Dairy Jean	Mt Pleasant	11	48	Surface	strip	6,359	5	truck	6,359		1		Jfn-O
Sterling Mining Co.	Sterling-Shean Hill	Brush Creek	7	36	Surface	strip	11,410	169	truck	11,410		1		Jfn-ST2
	Sterling South	Brush Creek	7A	36	Drift	cont. miner	247,328	253	truck	247,328		15		Jfn-ST
Valley Mining, Inc.	Piergallini	Smithfield	8	54	Surface	strip	12,111	146	truck	12,110		2		Jfn-831
			8A	18										
	Sapp	Knox	8		Surface	strip	28,263	188	truck	33,736		1		Jfn-830
			8A			auger	5,493							
						Total	33,756							
MAHONING COUNTY—Total production = 17,884														
D. & D. Mining Co.	Jean Kay Mine	Springfield	4	30	Surface	strip	16,616	87	truck	16,616		4		Mg-D
Thompson Bros. Mining Co.	North Lima Mine	Beaver	4	30	Surface	strip	1,268	11	truck	1,268		2		Mg-T

2004 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY (cont.)

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 2004	Disposition		Employment			State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Under-ground	Production	Non-production	
TUSCARAWAS COUNTY (continued)														
Oxford Mining Co., Inc.	Stillwater	Stillwater	7	33	Surface	strip auger Total	53,077 6,820 59,897	117	truck	46,968		6	1	Ts-O2
	Strasburg Slurry	Lawrence, Franklin Warwick	4	30	Surface	strip	4,324	5	truck	4,324		4		Ts-HC
		Stone Creek	5	30	Surface	strip	40,573	38	truck	35,222		6	1	Ts-H7
		6	38											
	Stillwater	Rush	7	33	Surface	strip auger Total	5,031 1,586 6,617	12	truck	5,189		4	1	Ts-2043
	Harper Stone Creek	Rush	7	33	Surface	strip	16,158	31	truck	12,670		5	1	Ts-O
		York	5	30	Surface	strip	284,232	254	truck	394,417		22	3	Ts-H4
		6	38		auger Total	168,351 452,583								
	Tusky Coal LLC Valley Mining, Inc.	Union	6	42	Drift	cont. miner	106,193	231	truck	104,968		28	6	Ts-T
		Braver	7		Surface	strip	6,892	115	truck	6,892		4	1	Ts-V2
Sentz		6		Surface	strip auger Total	42,199 14,326 56,525	255	truck	56,525		7	1	Ts-VM1	
VINTON COUNTY—Total production = 1,033,268														
Sands Hill Coal Co., Inc.	Big Valley	Wilkesville, Vinton	4A	42	Surface	strip	576,438	254	truck water Total	295,531 280,907 576,438		41	53	Vn-S4
			5	20										
			6	8										
Sands Hill Rockcamp II		Wilkesville	7	15	Surface	strip	1,292		truck water Total	662 630 1,292		1	1	Jkn-S2
Stanton		Wilkesville	4A	49	Surface	strip	150,716		truck water Total	77,270 73,446 150,716				Vn-S5 ³
			5	24										
			6	9										
Waterloo Coal Co., Inc.	Dundas Pit	Clinton	4	50	Surface	strip	302,048	214	truck	302,050		36	11	Vn-191
			5	45										
			6	20										
Green Pit		Madison	7	18				2	truck	2,774		1		Vn-182
			5	24	Surface	strip	2,774							
			6	18										

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Ts-A).

If there are no sales or production figures given for an operation, that operation reported no sales or production in 2004.

To convert short tons to metric tons, multiply the given tonnage by 0.907185.

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Acme Sand & Gravel 5378 State Route 212 NW Beach City, OH 44680 330-756-2703 William Malcuit, pres.	Acme Sand & Gravel	Tuscarawas	sand & gravel			Ts-A	IM-1218
Agg Rok Materials 711 Frank Rd. Columbus, OH 43223 614-875-5500 William G. Heffner, pres.	Agg Rok	Franklin	sand & gravel	466,967	469,911	Fn-36	IM-302
William Albert, Inc. 1300 Cassingham Hollow Rd. Coshocton, OH 43812 740-622-3045 William Albert, pres.	William Albert, Inc. Pit 1 William Albert, Inc. Pit 2	Coshocton Coshocton	sand & gravel sand & gravel	30,892	32,641	Cn-828 Cn-WA	IM-1026 IM-2036
Alden Excavating 2504 Northampton Rd. Cuyahoga Falls, OH 44223 330-928-3249 Connie Ensign, pres.	Alden Excavating	Summit	sand & gravel	10,113	10,113	St-55	IM-589
Allgeier & Son, Inc. 6386 Bridgetown Rd. Cincinnati, OH 45248 513-574-3735 Michael E. Allgeier, pres.	Allgeier & Son, Inc. Pit 1 Allgeier & Son, Inc. Pit 2 Allgeier & Son, Inc.	Hamilton Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	40,000 100,000 125,000	40,000 100,000 125,000	Hmn-AS1 Hmn-AS Hmn-C	IM-797 IM-1106 IM-1132
Alvis Properties LLC P.O. Box 243 Miamitown, OH 45041 513-353-3333 James H. Alvis, pres.	Alvis Properties	Hamilton	sand & gravel			Hmn-Al	IM-2208
American Excavating, Inc. P.O. Box 374 Enon, OH 45323 937-882-1372 Robert E. Holland, pres.	American Excavating, Inc.	Clark	sand & gravel	22,397	16,450	Ck-A	IM-1359
American Sand & Gravel, Inc. 8188 Wales Rd. NW North Canton, OH 44720 330-762-9373 Christopher A. Scala, pres.	Plant 1 Plant #4 Plant 2	Portage Stark Stark	sand & gravel sand & gravel sand & gravel	1,056,958	1,056,958	Pe-95 Sk-243 Sk-203	IM-212 IM-908 IM-654
American Stone Corp. dba Cleveland Quarries 230 West Main St. South Amherst, OH 44001 440-986-4501 Russell H. Ciphers, pres.	Birmingham Quarry Amherst Quarries	Erie Lorain	sandstone sandstone	7,241	7,241	Ee-21 Ln-3	IM-416 IM-415
Anchor-Land, Ltd. P.O. Box 648 St. Clairsville, OH 43950 740-695-7237 C. F. Dawson, owner	Anchor Limestone	Belmont	limestone			Bt-A	IM-2148
Apache Aggregate & Paving Co. 46626 County Route 495 Coshocton, OH 43812 740-622-5904 Charlene B. Ross, pres.	Apache Pit #1 Apache Pit #2	Coshocton Coshocton	sand & gravel sand & gravel	63,035 41,938	42,005 43,706	Cn-783 Cn-718	IM-717 IM-227
Artisan Moulded Brick Co. 1000 Richland Shale Rd. P.O. Box 1617 Mansfield, OH 44903 419-524-0000 Harvey Cahoon, pres.	Artisan Moulded Brick Co.	Richland	shale	26,865	26,865	Rd-R	IM-1035

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Ashcraft Sand & Gravel, Inc. 5850 Dry Fork Rd. Cleves, OH 45002 513-367-2177 Otis Ashcraft, pres.	Ashcraft Sand & Gravel, Inc.	Hamilton	sand & gravel	77,519	75,219	Hmn-54	IM-710
Athens Hocking Reclamation 450 Gallagher Ave. Logan, OH 43138 740-385-6019 Edward F. Kilbarger, pres.	Athens Hocking Reclamation	Athens	clay			As-594	
Atlas Towing Co. P.O. Box 1632 Parkersburg, WV 26101 304-428-0341 Christopher V. Criss, pres.	Belpre Bank Run	Washington	sand & gravel	16,763	16,763	Wn-54	IM-383
Ayers Limestone Quarry, Inc. 2000 Colerain Pike P.O. Box 67 Martins Ferry, OH 43935 740-633-2958 Patricia Ayers, pres.	Ayers Limestone Quarry, Inc.	Belmont	limestone	178,528	178,528	Bt-716	IM-1
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 740-783-3575 Carl Baker, Jr., pres.	B & N Coal	Noble	limestone			Ne-B	IM-897
Baisden Sand & Gravel 1812 Baker Rd. Springfield, OH 45504 937-390-6536 Brett Baisden, pres.	Baisden Sand & Gravel	Clark	sand & gravel	124,143	175,000	Ck-B	IM-2026
Baker Sand, Inc. 7800 White Rd. Burbank, OH 44214 330-948-1448 John E. Baker, pres.	Baker Sand, Inc.	Medina	sand & gravel	617,680	620,391	Ma-20	IM-448
Ballentine Excavation Co. 7854 Cooley Rd. Ravenna, OH 44266 330-297-9739 Daniel H. Ballentine, owner	Ballentine Lake	Portage	sand & gravel	24,686	24,686	Pe-BA	IM-1327
Barrett Paving Materials, Inc. 5325 Medway Rd. Fairborn, OH 45324 937-878-8631 Marc Zehnder, plant super.	Fairborn Aggregate Plant	Greene	sand & gravel	524,100	535,599	Ge-4	IM-394
Barrett Paving Materials, Inc. 4710 Soldiers Home-WC Rd. Miamisburg, OH 45342 937-279-3200 Mike Oliver, plant super.	West Carrollton Aggregate Plant	Montgomery	sand & gravel	511,145	432,577	My-19	IM-401, IM-916
Barrett Paving Materials, Inc. 2551 Needmore Rd. Dayton, OH 45414 937-313-2464 Gerald Bushelman, reg. mgr.	Barrett Paving Materials Inc. Barrett Paving Materials Inc. Jones Deposit Morelock Pit Pence Pit River Limestone Quarry/Spring Creek Corp. Schmidt Deposit	Clark Montgomery Shelby Shelby Shelby Shelby	sand & gravel sand & gravel sand & gravel sand & gravel limestone limestone sand & gravel	614,601 30,000 355,514 243,416	637,067 30,000 299,000 305,945	Ck-28 My-B Shy-18 Shy-SC Shy-11 Shy-15	IM-1100, IM-2120 IM-2044 IM-388 IM-1018 IM-743 IM-387
		Shelby				Shy-SC1	IM-2017
Barrett Paving Materials, Inc. Mid-Ohio 3244 S. Davis Rd. Ludlow Falls, OH 45339 937-698-3043 Dave Vosler, reg. mgr.	Barrett Paving Materials Inc. Bed Rock Properties	Miami Miami	limestone limestone	392,910	401,452	Mi-BPM Mi-502	IM-1169 IM-414

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Bartley & Bolin Excavating 1242 County Rd. 1475 Ashland, OH 44805-9277 419-289-1507 Mitchell W. Bolin, owner	Bartley & Bolin, Inc. Bartley & Bolin, Inc.	Ashland Richland	sand & gravel sand & gravel	167,391 16,214	167,391 16,214	Ald-B Rd-20	IM-2141 IM-617
Bearcreek Clay Co. 11123 State Route 37 East New Lexington, OH 43764 740-342-5473 Tom L. Dennis, owner	County Rd. 7 Mine Nelson/Common Mine	Perry Perry	clay shale clay shale	13,120 26,241 41,600 15,000	13,120 26,241 41,600 15,000	Py-338 Py-D1	IM-1092 IM-1304
Beaver Excavating, Inc. 4650 Southway St. SW P.O. Box 6059 Canton, OH 44706 330-478-2151 W. Mark Sterling, pres.	Stone Products	Stark	sand & gravel clay	12,500	12,500	Sk-BE	IM-1202
Beck Sand & Gravel, Inc. 2820 Webb Rd. Ravenna, OH 44266 330-626-3863 Rodney A. Wenrich, pres.	Beck Sand & Gravel, Inc.	Portage	sand & gravel	253,577	253,577	Pe-50	IM-96
Paul D. Beery Trucking Co. 4770 Cincinnati-Zanesville Rd. Lancaster, OH 43130 740-653-5061 Paul D. Beery, pres.	Paul D. Beery Trucking Co.	Fairfield	sand & gravel	375	375	Fd-14	IM-933
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 Robert F. Belden, pres.	Beagle Pit Belden Pit Dundee Pit Moomaw Pit Plotner Pit Shanesville Pit Wallick Pit	Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas	clay clay shale limestone clay limestone clay shale limestone clay shale limestone clay	18,875 23,033 5,027 93,344 54,267 10,000 25,855 151,514 935 91,327	18,875 23,033 5,027 93,344 54,267 10,000 25,855 151,514 1,435 91,327	Ts-1960 Ts-1646 Ts-BB Ts-1517 Ts-B Ts-1939 Ts-1841	IM-48 IM-44 IM-1221 IM-46 IM-49 IM-47 IM-45
Benjamin's Farm, Inc. 10570 Frost Rd. Mantua, OH 44255 330-274-3293 John R. Benjamin, pres.	Benjamin's Farm, Inc.	Portage	sand & gravel			Pe-BF	IM-2163
Best Sand Corp. 11830 Ravenna Rd. Chardon, OH 44024 440-285-0707 Charles D. Fowler, pres.	Best Sand Corp. Best Sand Corp.	Geauga Pike	sandstone sandstone	772,930 76,040	721,802 72,472	Gea-3 Pke-31	IM-89 IM-835
Black Top Contracting, Inc. P.O. Box 426 Nelsonville, OH 45764 740-753-1181 Tim Maiden, pres.	Black Top #1 York Twp. Trustees	Athens Athens	sand & gravel sand & gravel	35 41,700	35 41,700	As-588 As-BT	IM-630 IM-1350
E. E. Blair Construction Co. P.O. Box 309 Wheelersburg, OH 45694-0309 740-574-6575 Edwin E. Blair, pres.	Cab Pit E. E. Blair	Scioto Scioto	sand & gravel sand & gravel	80,000	80,000	So-98 So-BL	IM-474 IM-2220
Blue Jay Enterprises of Ts. Co., Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland D. Ervin, pres.	Blue Jay #1 Swonger Waltz Mine	Tuscarawas Tuscarawas	clay shale clay	10,663 7,284 3,012	10,663 7,284 3,012	Ts-BJ Ts-520	IM-1285 IM-214

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Blue Stone Sand & Gravel, Inc. 14376 N. Cheshire St. P.O. Box 567 Burton, OH 44021 440-834-1367 David W. Ronyak, pres.	Blue Stone Pit #1 Blue Stone Pit #2	Portage Portage	sand & gravel sand & gravel			Pe-B1 Pe-B2	IM-1296 IM-1305
Bluffton Stone Co. P.O. Box 26 Bluffton, OH 45817-0026 419-358-6941 Brent C. Gerken, pres.	Bluffton Stone Co.	Allen	limestone	415,964	463,553	An-1	IM-485
Bowerston Shale Co. 515 Main St. P.O. Box 199 Bowerston, OH 44695 740-269-2921 Mark Willard, pres.	Bowerston Scott Farm	Harrison Harrison	shale shale	37,348	37,348	Hn-152 Hn-B	IM-42 IM-1020
Bowerston Shale Co. 1329 Seven Hills Rd. NE Newark, OH 43055 740-763-3921 Mark Willard, pres.	Hanover Frazeyburg	Licking Muskingum	shale clay	25,543 10,935	25,543 10,935	Lg-501 Mum-776	IM-257 IM-256
Gaston Bowling, Inc. P.O. Box 330 Oxford, OH 45056 513-523-8805 Gaston Bowling, pres.	Indian Creek Sand & Gravel	Butler	sand & gravel	2,734	2,734	Br-40	IM-493
D. H. Bowman & Sons, Inc. 1201 Mill St. Bellville, OH 44813-1282 419-886-2711 John D. Ellis, pres.	D. H. Bowman & Sons, Inc.	Richland	sand & gravel	88,051	72,000	Rd-4	IM-279, IM-1255
Boyas Excavating, Inc. 10055 Sweet Valley Dr. Cleveland, OH 44125-4247 216-524-3620 Michael Boyas, pres.	Boyas Excavating, Inc.	Cuyahoga	sand & gravel sandstone clay	11,256 1,254	11,256 1,254	Cya-42	IM-686
Boyd Excavating 9553 County Rd. 28 Zanesfield, OH 43360 937-465-3290 Jeff Boyd, owner	Boyd Excavating	Logan	sand & gravel	5,645	5,982	Lgn-B	IM-1309
Briar Hill Stone Co. P.O. Box 457 Glenmont, OH 44628 330-377-5100 F. L. Waller, pres.	Quarry #56 Quarry #18 Quarry #24 Quarry #26 Quarry #3 Quarry #32 Quarry #54 Quarry #55 Quarry #31 Quarry #6	Coshocton Coshocton Coshocton Coshocton Coshocton Coshocton Coshocton Coshocton Holmes Knox	sandstone sandstone sandstone sandstone sandstone sandstone sandstone sandstone sandstone sandstone	851 8,825 8,825 988 2,589 7,780	851 8,825 8,825 988 2,589 7,780	Cn-BH Cn-695 Cn-692 Cn-13 Cn-659 Cn-686 Cn-809 Cn-815 Hs-49 Kx-12	IM-2147 IM-402 IM-294 IM-397 IM-232 IM-504 IM-909 IM-939 IM-418 IM-445
Briggs Sand & Gravel, Inc. County Rd. 10 1905 Blue Knob Marietta, OH 45750 740-373-3363 James A. Briggs, pres.	Briggs Sand & Gravel, Inc.	Washington	sand & gravel	6,135	6,135	Wn-508	IM-57
Broshear Contractors, Inc. 2520 Millville-Ross Rd. Hamilton, OH 45013 513-863-3388 Gerald Broshear, pres.	Green Heron Ross Twp. Gravel	Butler Butler	sand & gravel sand & gravel	104,305	104,305	Br-B Br-48	IM-2029 IM-562

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Oscar Brugmann Sand & Gravel, Inc. 3828 Dudley Rd. Mantua, OH 44255 330-274-8224 Roy Brugmann, pres.	Oscar Brugmann Sand & Gravel, Inc. Oscar Brugmann Sand & Gravel, Inc.	Portage Portage	sand & gravel sandstone sand & gravel	526,816 44,899	538,000 46,000	Pe-9 Pe-OB	IM-119 IM-1241
Buckeye-Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Clay Clay Close Cox	Columbiana Columbiana Stark Stark	clay clay clay clay	3,212 1,438	3,212 1,438	Ca-BIM Ca-987 Sk-B Sk-BI2	IM-1271 D-0928 D-1123 D-2145
Marilyn J. Burkholder 1655 Fairview Rd. Galion, OH 44833 419-468-1361 Marilyn J. Burkholder, trustee	Burkholder	Crawford	sand & gravel			Cd-B	IM-2204
Burlington Sand & Gravel Co. P.O. Box 399 Chesapeake, OH 45619 740-894-5978 Vernon E. Collier, owner	Burlington Sand & Gravel Co.	Lawrence	sand & gravel	1,027	1,027	Le-426	IM-856
The Terry Byrne Mining Co. 4775 Mill Run Rd. Lexington, OH 44904 419-886-4345 Terrance K. Byrne, owner	The Terry Byrne Mining Co.	Richland	sand & gravel			Rd-TB	IM-1343
C & S Contractors, Inc. P.O. Box 498457 Cincinnati, OH 45249 513-530-9844 Raymond A. Conn, pres.	C & S Contractors, Inc.	Warren	sand & gravel			Wan-47	IM-846
C.I.R., Inc. 2856 N. County Line Rd. Geneva, OH 44041-9604 440-352-2256 Steven J. Klima, pres.	Harmon	Lake	sand & gravel	1,000	1,000	Lke-CIR	IM-1243
Cargill Incorporated Cargill Salt Division P.O. Box 6920 Cleveland, OH 44101 440-716-4664 Dale Fehrenback, v. pres.	Cargill Deicing Technology Cargill Incorporated	Cuyahoga Summit	salt salt	2,696,905 279,588	2,682,460 271,849	Cya-30 St-9127	
Carmeuse Ohio Inc. P.O. Box 708 Bettsville, OH 44815 419-986-5200 Tom Durks, mgr.	Maple Grove	Seneca	limestone	2,038,551	2,038,551	Sa-2	IM-352
Joe E. Carter 21399 State Line Rd. Lawrenceburg, IN 47025 812-537-3970 Joe E. Carter, owner	Lost Bridge	Hamilton	sand & gravel	800	800	Hmn-JC	IM-1267
Carter & Carter, Inc. P.O. Box 266 Miamisburg, OH 45343-0266 937-859-1036 Charles V. Carter, pres.	Carter & Carter, Inc.	Montgomery	sand & gravel	1,804	3,220	My-CW	IM-878
Cashen, Inc. 1225 Dock Rd. Madison, OH 44057 440-428-1148 Andrew Cashen, owner	Cashen, Inc.	Lake	sand & gravel	890	890	Lke-C	IM-1215

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Cedar Heights Clay Co. P.O. Box 295 Oak Hill, OH 45656-0295 740-682-7794 William T. Brown, pres.	Harrison Phillips	Jackson Jackson	clay clay	42,447	42,447	Jkn-CH2 Jkn-CH3	IM-1302 IM-2035
CEMEX, Inc. 3250 Linebaugh Rd. Xenia, OH 45385 937-878-8651 Cesae Millan, pres.	Batdorf, Feirstine, Schneider CEMEX, Inc. (Harner) Miller	Greene Greene Greene	limestone limestone limestone	389,753 207,009 90,945	389,753 207,009 90,945	Ge-9 Ge-44 Ge-8	IM-364 IM-364
	G-Tract	Montgomery	clay limestone	219,648	219,648	My-58	IM-330
Central-Allied Enterprises, Inc. P.O. Box 80449 Canton, OH 44708-0449 330-477-6751 Gerald S. Orn, pres.	Canton Aggregate Div. Central Aggregate Div. Central Sand & Gravel Div. Massillon Washed Gravel Div. Massillon Washed Gravel Div.	Stark Stark Stark Stark Stark	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	11,500 315,669 770,908 34,050 334,844	11,500 315,669 770,908 34,050 334,844	Sk-681 Sk-CA Sk-CA1 Sk-MW Sk-607	IM-164 IM-1234 IM-2140 IM-1171 IM-102
Chesterville Sand & Gravel Co., Inc. State Route 95 E P.O. Box 51 Chesterville, OH 43317 419-768-3369 Carrol D. Gleason, pres.	Chesterville Sand & Gravel Co., Inc.	Morrow	sand & gravel	256,710	256,710	Mw-10	IM-258
Christman Quarries 47278 Swazey Rd. Lewisville, OH 43754 740-838-2475 Gerald L. Christman, owner	Christman Quarry	Monroe	limestone	70,693	70,693	Me-C	IM-1088
Carmen Cicero 999 Orchard Ave. Niles, OH 44446 330-538-3044 Carmen S. Cicero, owner	Rte. 534 Stone Products	Mahoning	sandstone	11,000	11,000	Mg-62	IM-599
City Stone LLC 8063 Southern Blvd. Youngstown, OH 44512 800-262-9365 Ron Carrocce, pres.	City Stone LLC	Trumbull	sandstone	136,238	136,238	TI-CA	IM-2085
Clark Clay Inc. 6878 Twp. Rd. 310 Millersburg, OH 44654 330-674-0624 Larry Clark, pres.	Clark Clay Inc.	Holmes	clay			Hs-56	
Clemson Excavating, Inc. 9954 Old State Rd. Chardon, OH 44024 440-286-4757 Bill Clemson, pres.	Clemson Excavating Sand & Gravel	Ashtabula	sand & gravel			Asa-C	IM-1278
M. J. Coates Construction Co., Inc. P.O. Box 41231 Dayton, OH 45441 937-433-1581 Martin J. Coates, owner	M. J. Coates Construction Co., Inc. M. J. Coates Construction Co., Inc.	Greene Greene	sand & gravel sand & gravel	49,302 89,219	49,302 89,219	Ge-G Ge-47	IM-655 IM-751
Cochran Transportation Services, Inc. P.O. Box 608 Athens, OH 45701 740-593-3906 Charles W. Cochran, pres.	Circle Hill Sand & Gravel, Inc.	Athens	sand & gravel	48,541	48,541	As-595	IM-1083
Boone Coleman Construction, Inc. 32 State Route 239 West Portsmouth, OH 45663 740-858-6661 Boone Coleman, pres.	Boone Coleman Construction, Inc. Coleman Pit	Scioto Scioto	sand & gravel sand & gravel	120	120	So-BC So-B	IM-1252 IM-705

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Bill D. Colwell 2530 Regina Pl. Hamilton, OH 45013 513-863-2138 Bill D. Colwell, owner	Bill D. Colwell Gravel	Butler	sand & gravel			Br-36	IM-649
Con-Ag, Inc. 16672 County Rd. 66A N St. Marys, OH 45885 419-394-8870 Robert E. Hirschfeld, pres.	Con-Ag, Inc.	Auglaize	limestone	322,841	345,971	Ae-31	IM-744
County Line Concrete & Supply P.O. Box 176 Gnadenhutten, OH 44629 740-254-4635 William E. Stocker, chairman	County Line Concrete & Supply	Coshocton	sand & gravel			Cn-C	IM-1311
Craigton Shale Co. P.O. Box 6 Lakeville, OH 44638 330-496-3000 Leonard Schemrich, owner	Lakeville Sand & Gravel, LTD. Craigton Shale Co.	Holmes Wayne	sand & gravel shale	156,420 350	156,420 350	Hs-C We-25	IM-1303 IM-1209
Cremeans Concrete & Supply Georges Creek Rd. P.O. Box 475 Gallipolis, OH 45631 740-446-1142 Frank A. Cremeans, pres.	Cremeans Concrete & Supply Co., Inc.	Gallia	sand & gravel			Ga-626	IM-1046
Crompton Manufacturing Company, Inc. 199 Benson Rd. Middlebury, OH 06749 203-573-3905 Robert Weiner, pres.	Lake County Nursery	Lake	sand & gravel clay	22,175	22,175	Lke-U	IM-2213
Crosby Gravel, Inc. 9570 State Route 128 Harrison, OH 45030 513-738-0077 Donald Smith, pres.	Crosby Gravel, Inc.	Hamilton	sand & gravel	327	327	Hmn-44	IM-120
R. A. Cruise Sand & Gravel, Inc. P.O. Box 1066 Ravenna, OH 44266 330-296-4087 Larry A. Cruise, pres.	R. A. Cruise Sand & Gravel, Inc.	Portage	sand & gravel	26,862	26,862	Pe-45	IM-139
Cunningham Asphalt Paving, Inc. P.O. Box 370 Wheelersburg, OH 45694 740-574-6184 Karl Cunningham, pres.	Cunningham Pit	Scioto	sand & gravel			So-83	IM-211
Custar Stone Co., Inc. P.O. Box 627 Napoleon, OH 43545 419-533-8831 Brent Gerken, pres.	Custar Stone Co., Inc.	Wood	limestone	1,364,662	1,377,840	Wd-5	IM-473
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	D. & D. Strip D. & D. Strip D. & D. Strip	Columbiana Columbiana Mahoning	clay clay sandstone	7,375 8,431	7,375 8,431	Ca-888 Ca-348 Mg-D	IM-1181 IM-976 D-2164
D & K Materials, Inc. 3072 Congress Lake Rd. Mogadore, OH 44260 330-678-2411 Kimberly S. Ebie, pres.	D & K Materials, Inc.	Portage	sand & gravel clay	34,781	34,781	Pe-101	IM-1154

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
D.B.M. Materials, LLC 2040 Alum Creek Dr. Columbus, OH 43207 614-445-8421 John B. Igel, pres.	D.B.M. Materials, LLC	Franklin	sand & gravel			Fn-14	IM-832
D.G.M., Inc. 453 Salisbury Rd. Beaver, OH 45613 740-820-3145 Thomas Salisbury, pres.	Towpath-Warwick Tow Path Ready Mix	Ross Scioto	sand & gravel sand & gravel	14,251 101,811	14,251 101,811	Rs-D So-DGM	IM-2176 IM-1280
Darby Creek Excavating, Inc. 6790 Brooksmiller Rd. Circleville, OH 43113 740-477-8600 Kevin R. Steward, pres.	Darby Creek Excavating Inc.	Pickaway	sand & gravel	76,200	76,200	Pky-DC	IM-1316
Daron Coal Company, Inc. 42600 Deersville Ridge Rd. Cadiz, OH 43907 740-942-8223 Charles Ungurean, pres.	Standingstone Mine	Harrison	limestone	927,865	927,865	Hn-D	D-1181
De Milta Sand & Gravel, Inc. 921 Erie Rd. Eastlake, OH 44095 440-942-2015 Nick De Milta, pres.	De Milta Sand & Gravel, Inc.	Lake	sand & gravel			Lke-D	IM-1187
Demmy Construction, Inc. 4324 Fairfield Pike Springfield, OH 45502 937-323-4079 Daniel E. Demmy, pres.	Demmy Constuction, Inc.	Clark	limestone sand & gravel	6,693 50,864	6,693 50,864	Ck-501	IM-340
Demmy Sand & Gravel 4324 Fairfield Pike Springfield, OH 45502 937-323-4079 Daniel Demmy, owner	Deam Demmy Sand & Gravel	Clark Clark	sand & gravel sand & gravel	5,021	5,021	Ck-LG Ck-502	IM-2073 IM-375
Diamond Stone Quarries P.O. Box 315 McArthur, OH 45651 740-682-7787 T. L. Darlington, Jr., pres.	Diamond Stone	Athens	limestone	300,000	300,000	As-533	IM-17
DiGeronimo Aggregates LLC 5531 Canal Rd. Valley View, OH 44125 216-524-2950 Vic DiGeronimo, Jr., pres.	DiGeronimo Aggregates LLC	Cuyahoga	shale	77,116	77,116	Cya-19 ¹	IM-0095
Dingledine Basic Materials, Inc. 2304 Somerville Rd. P.O. Box 262 Somerville, OH 45064 513-726-5258 Gerald Dingledine, pres.	Dingledine Basic Materials, Inc.	Butler	sand & gravel	163,741	163,741	Br-50	IM-739
Dome Minerals, Inc. 15601 Emerick Rd. Kensington, OH 44427 330-223-1413 Fred A. Rogers, owner	Dome Minerals, Inc.	Columbiana	shale	25,272	25,272	Ca-947	IM-935
James E. Downard 1185 Mount Zwingli Rd. Bremen, OH 43107 740-569-7849 James E. Downard, owner	Downard Pit	Fairfield	sand & gravel clay	5,174	5,174	Fd-16	IM-1156

¹This mine was operated January through September 2004 by Hydraulic Press Brick Co. and October through December 2004 by DiGeronimo Aggregates LLC.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Duff Quarry, Inc. 9042 State Route 117 P.O. Box 305 Huntsville, OH 43324-0305 937-686-2488 James E. Duff, pres.	Duff Quarry, Inc. Duff Quarry, Inc. Duff Quarry, Inc. Duff Quarry, Inc. Duff Quarry, Inc. Duff Sand Co.	Hardin Logan Logan Logan Logan Logan	limestone limestone sand & gravel sand & gravel sand & gravel sand & gravel	93,674 474,090 35,662 8,276	93,674 474,090 35,662 8,276	Hdn-S Lgn-15 Lgn-12 Lgn-39 Lgn-36 Lgn-31	IM-1034 IM-453 IM-1071 IM-887 IM-1007 IM-454
ENZ, Inc. P.O. Box 405 Magnolia, OH 44643 330-866-4510 James R. Demuth, pres.	Sickafoose Pit	Stark	limestone clay	174,477 55,422	174,477 55,422	Sk-208	D-1015
ESSROC Cement Corp. P.O. Box 779 Bessemer, PA 16112 724-667-7702 George Gregory, pres.	Sylvania Quarry Bessemer Quarry Carbon Quarry	Lucas Mahoning Mahoning	limestone clay limestone clay limestone clay	517,500 20,737 490,047	517,500 20,737 490,047	Ls-12 Mg-608 Mg-EM	IM-953 IM-4 IM-1056
East Clayton Asphalt, Inc. P.O. Box 38 Nelsonville, OH 45764 740-753-1005 Dan L. Simms, pres.	East Clayton Asphalt, Inc.	Athens	sand & gravel			As-1161	IM-97
East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452 330-549-2165 W Thomas Mackall, pres.	Meandering Creek Farms Withers-Petersburg	Mahoning Mahoning	limestone limestone clay	93,059 1,152,277	93,059 1,152,277	Mg-EF Mg-631 ²	IM-2093, IM-2101 IM-1103
David E. Edgington P.O. Box 282 Frankfort, OH 45628 740-998-5328 David E. Edgington, owner	Edgington Pit	Ross	sand & gravel	4,188	4,188	Rs-E	IM-1168
Enon Sand & Gravel LLC 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Enon Washed Sand & Gravel Co.	Clark	sand & gravel			Ck-3	IM-463
Envirosafe Services of Ohio, Inc. 876 Otter Creek Rd. Oregon, OH 43616 419-255-5100 Douglas E. Roberts, pres.	Johlin Property Clay Mine	Lucas	clay	9,600	9,600	Ls-E	IM-1075, IM-2116
Erie Blacktop, Inc. 4507 Tiffin Ave. P.O. Box 2308 Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Erie Blacktop Quarry Erie Blacktop, Inc.	Erie Huron	limestone sand & gravel	492,497	492,497	Ee-27 Hrn-16	IM-608 IM-975
Erie Materials, Inc. 4507 Tiffin Ave. Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Borchardt	Erie	sand & gravel			Ee-18	IM-676
Evans Gravel, Inc. 4229 Round Bottom Rd. Cincinnati, OH 45244 513-271-1119 Douglas L. Evans, pres.	Evans Gravel, Inc. Evans Gravel, Inc.	Clermont Hamilton	sand & gravel sand & gravel	53,500 2,400	58,892 3,010	Ct-9 Hmn-E	IM-526 IM-2181
Feikert Sand & Gravel, Inc. 6971 County Rd. 189 Millersburg, OH 44654 330-674-7245 Lynn O. Feikert, pres.	Feikert Sand & Gravel, Inc.	Holmes	sand & gravel	132,096	132,096	Hs-511	IM-1048, IM-1240

²This mine began underground operations in 2003. In 2004, production took place in Pennsylvanian and sales were in Ohio.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Fenner Sand & Gravel, Inc. 7131 W. Fenner Rd. Ludlow Falls, OH 45339 937-698-7048 Robert P. Snead, pres.	Woodville Concrete Corp.	Miami	sand & gravel	104,000	104,000	Mi-4	IM-472
Fleming Construction Co., Inc. dba Scioto S & G P.O. Box 31 Marion, OH 43301-0031 740-494-2177 Gerald E. Fleming, pres.	Pit #1 Pit #2	Marion Marion	sand & gravel sand & gravel	45,645 35,130	45,645 35,130	Mn-16 Mn-19	IM-171 IM-990
Flesher Sand & Gravel, Inc. 3322 Clark Mill Rd. Norton, OH 44203 330-745-9239 James E. Fisher, pres.	Flesher Sand & Gravel, Inc.	Summit	sand & gravel			St-52	IM-900
Foureman's Sand & Gravel, Inc. 2791 Wildcat Rd. Greenville, OH 45331 937-548-1718 Gary B. Foureman, pres.	Foureman's Sand & Gravel, Inc.	Darke	limestone sand & gravel	3 107,339	3 107,339	Dke-4	IM-433
Lloyd B. Fry P.O. Box 1515 Piqua, OH 45356 937-773-1940 Lloyd B. Fry, pres.	Lloyd B. Fry	Miami	sand & gravel	2,000	2,000	Mi-T	IM-696
Frye Sand & Gravel, Inc. 3049 S. Denmark Rd. P.O. Box 3 Dorset, OH 44032-0003 440-858-2627 Harold L. Frye, owner	Frye Sand & Gravel, Inc. Frye Sand & Gravel, Inc.	Ashtabula Ashtabula	sand & gravel sand & gravel	673	673	Asa-F Asa-10	IM-1289 IM-198
GANS Ltd. 800 West Maple St. Hartville, OH 44632 330-877-2525 Ellis Erb, pres.	Gans Ltd. dba Brimfield Sand & Soils	Portage	sand & gravel	9,895	2,658	Pe-102	IM-1184
Ganges Gravel Co. P.O. Box 638 Mansfield, OH 44901 419-886-3660 Don Daugherty, pres.	Ganges Gravel Co.	Richland	sand & gravel	57,881	58,928	Rd-18	IM-670
John L. Garber Materials, Inc. Route 8 Lexington, OH 44904 419-884-1567 John L. Garber, pres.	John L. Garber Materials, Inc. John L. Garber Materials, Inc.	Richland Richland	sand & gravel sand & gravel	65,432 166,819	68,220 166,189	Rd-14 Rd-G	IM-436 IM-2152
General Motors Power Train 26427 State Route 281 E Defiance, OH 43512 419-782-7010 Michael Chapman, plant mgr.	GM Powertrain Clay Borrow Area	Defiance	clay			De-3	IM-1351
Gibson Sand & Gravel Co. 1475 Knorr Rd. Galion, OH 44833 419-468-5820 John Gibson, owner	Gibson Sand & Gravel Co.	Crawford	sand & gravel	32	32	Cd-G	IM-0693
Timothy P. Gleason 10217 State Route 534 N Middlefield, OH 44062 440-272-5158 Timothy P. Gleason, pres.	Springbrook	Trumbull	sand & gravel sandstone clay	87,310 681 6,713	87,310 681 6,713	TL-12	IM-131

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Glen-Gery Corp. P.O. Box 207 Iberia, OH 43325 419-468-5002 Steve Matsick, pres.	Iberia Quarry	Marion	shale	212,394	212,394	Mn-7	IM-309
Golsch Construction, Inc. 9880 Valley Junction Rd. Cleves, OH 45002 513-353-2555 Gary Golsch, pres.	Golsch Construction, Inc.	Hamilton	sand & gravel			Hmn-G	IM-1270
Joyce A. Good 1203 Kieffer St. Wooster, OH 44691 330-264-6803 Joyce A. Good, owner	Joyce A. Good	Ashland	sand & gravel	230	230	Ald-G	IM-1121
D & S Gotshell P.O. Box 23402 Chagrin Falls, OH 44023 330-995-6521 Dale Gotshell, owner	Richards	Ashtabula	sand & gravel			Asa-G	IM-2211
Gray Road Fill, Inc. 700 W. Pete Rose Way Cincinnati, OH 45203 513-721-6000 Roy B. Schweitzer, pres.	Gray Road Fill, Inc.	Hamilton	limestone			Hmn-GR	IM-1363
Graymont Dolime (OH) Inc. P.O. Box 158 Genoa, OH 43430 419-855-8336 William Dodge, pres.	Graymont Dolime (OH) Inc.	Ottawa	limestone	982,850	982,850	Oa-1 ³	IM-292
H. T. Griffin Excavating, Inc. 3950 S. Berkey Southern Swanton, OH 43558 419-826-0230 Henry T. Griffin, owner	H. T. Griffin Excavating, Inc.	Lucas	sand & gravel	2,000	2,000	Ls-G	IM-1090
Grimes Excavating Route 3 P.O. Box 120 New Matamoras, OH 45767 740-865-2267 Lewis Grimes, owner	Grimes Sand and Gravel	Washington	sand & gravel	149,155	149,155	Wn-1008	IM-1111
Hanson Aggregates Midwest, Inc. 8130 Brint Rd. P.O. Box 278 Sylvania, OH 43560-0278 419-882-0123 Ron Tipton, v. pres.	Sandusky Quarry Sylvania Waterville P.O. Box 278 Paulding Bloomville Flat Rock	Erie Lucas Lucas Paulding Seneca Seneca	limestone limestone limestone limestone limestone limestone	3,946,738 1,135,329 319,097 189,000 404,350 453,596	3,946,738 1,135,329 319,097 189,000 404,350 453,596	Ee-11 Ls-3 Ls-1 Pg-7 Sa-3 Sa-1	IM-263 IM-580 IM-575 IM-349 IM-347
Hanson Aggregates Midwest, Inc. 4281 Roush Rd. Hillsboro, OH 45133 937-364-2311 Craig Morgan, v. pres.	Plum Run Quarry Eagle Crushed Stone Highland Stone Piketon Sand & Gravel Scioto Valley Resources	Adams Brown Highland Pike Scioto	limestone limestone limestone sand & gravel sand & gravel	1,576,498 1,339,964 712,050 472,957 275,770	1,576,498 1,222,265 701,894 472,957 275,770	Ads-1 Bn-EC Hd-2 Pke-24 So-100	IM-237 IM-1195 IM-230 IM-222 IM-950
Hanson Aggregates Midwest, Inc. 209 Old Harrods Creek Rd. Louisville, KY 40223 419-882-0123 Craig Morgan, v. pres.	Wagner Quarry Dry Fork Sand & Gravel	Erie Hamilton	limestone sand & gravel	2,788,810 1,023,504	2,989,269 1,094,046	EE-1 Hmn-50	IM-310 IM-205, IM-1139

³Graymont Dolime (OH) Inc. and Stansley Mineral Resources operate from the same mine.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Harden Agricultural Lime & Reclam. Svs., Inc. 13865 Nickel Plate Rd. Logan, OH 43138 740-385-5296 Scott R. Harden, owner	Harden Sand & Gravel	Hocking	sand & gravel	45,800	45,800	Hg-HA	IM-1320
Norman Harpster 16069 State Route 235 Belle Center, OH 43310 937-464-5623 Norman Harpster, owner	Harpster Pit	Hardin	sand & gravel			Hdn-H	IM-864
Harrison Sand & Gravel Co. 10980 Campbell Rd. Harrison, OH 45030 513-367-5174 Donald L. Gauck, v. pres.	Harrison Sand & Gravel Co.	Hamilton	sand & gravel	18,933	133,350	Hmn-17	IM-295
Hartley Gravel 22941 Hartley Rd. Alliance, OH 44601 330-823-0003 Jacob Maendel, pres.	Hartley Gravel	Columbiana	sand & gravel	9,363	9,363	Ca-H1	IM-2033
Harvest Sand & Gravel, Inc. 2295 Bazetta Rd. Cortland, OH 44410 330-372-4408 Andrew T. Yount, pres.	Eberly	Columbiana	sand & gravel clay	40,951 26	40,951 26	Ca-H2	IM-2174
	Harvest Sand & Gravel, Inc.	Columbiana	sand & gravel	4,596	4,596	Ca-H	IM-2027
Haubeil & Sons Asphalt & Materials, Inc. 379 Seney Rd. Chillicothe, OH 45601 740-773-6358 George W. Haubeil, pres.	Haubeil & Sons Asphalt & Materials, Inc.	Ross	sand & gravel	69,648	69,646	Rs-H	IM-1052
Haueter Sand & Gravel, Inc. P.O. Box 206 Chardon, OH 44024 440-286-9482 Donald H. Haueter, pres.	Haueter Sand & Gravel, Inc. Haueter Sand & Gravel, Inc.	Geauga Geauga	sand & gravel sand & gravel	150,488	150,488	Gea-H Gea-29	IM-510 IM-215
Heiser Sand & Gravel Corp. Applegrove St. NW North Canton, OH 44720 330-499-8201 Richard L. Heiser, pres.	Heiser Sand & Gravel Corp. Heiser Sand & Gravel Corp.	Stark Stark	sand & gravel sand & gravel	20,839	20,839	Sk-HS1 Sk-HS	IM-1203 IM-1193
Ervin Hill Enterprises, Inc. P.O. Box 559 Hillsboro, OH 45133 937-393-4120 Mark Edenfield, pres.	Ervin Hill Enterprises, Inc.	Highland	sand & gravel	102,257	102,257	Hd-L	IM-1297
Hilltop Aggregate, Inc. P.O. Box 100 Mogadore, OH 44260 330-628-4000 Robert W. West, pres.	Hilltop Aggregate, Inc. Rufener Farm	Portage Portage	sand & gravel sand & gravel	400,250	400,250	Pe-56 Pe-H	IM-127 IM-2039
Hocking Valley Concrete, Inc. 35255 Hocking Dr. Logan, OH 43138 740-385-2165 Mark Vaughn, v. pres.	Hocking Valley Concrete, Inc.	Hocking	sand & gravel	76,790	76,790	Hg-262	IM-41
Hocking Valley Mulch 32091 Beech Camp Rd. Logan, OH 43138 740-385-8395 Clark Sheets, Jr., pres.	Sheets Pit	Hocking	sand & gravel	902	902	Hg-HV	IM-1284

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
William A. Hoffman, Jr. 25043 State Route 104 Circleville, OH 43113 740-474-2002 William A. Hoffman, Jr., owner	Hoffman Pit	Pickaway	sand & gravel	1,063	1,063	Pky-H	IM-1039
Hollinger Excavating 2097 Hollansburg-Arcanum Rd. New Madison, OH 45346 937-996-5381 Tom W. Hollinger, leasee	Hollinger Gravel	Darke	sand & gravel			Dke-10	IM-326
Holmes Supply Corp. 6710 County Rd. 624 Millersburg, OH 44654 330-674-0051 Steve Schlabach, pres.	Holmes Supply Corp.	Holmes	sand & gravel	276,729	276,729	Hs-J	IM-1043
Honey Creek Stone Co. P.O. Box 286 Petersburg, OH 44454 724-654-5537 Carmen W. Shick, pres.	Honey Creek Stone Co.	Mahoning	limestone clay	281,650 19,771	246,326 19,771	Mg-54	IM-93
Honey Creek Valley Realty Ltd. 925 Twp. Rd. 2375 Perrysville, OH 44864 419-938-6508 Randy L. Burson, pres.	Honey Creek Valley Realty Ltd.	Ashland	sand & gravel	1,200	1,200	Ald-H	IM-2155
Terry A. Hoppes 1533 Moorefield Rd. Springfield, OH 45503 937-399-1531 Terry A. Hoppes, pres.	Hoppes	Clark	sand & gravel	2,200	2,200	Ck-TH	IM-2133
Hugo Sand Co. 7055 State Route 43 Kent, OH 44240 216-587-2700 Dorothy M. Strohm, pres.	Hugo Sand Co.	Portage	sand & gravel	207,074	207,074	Pe-10	IM-138
Hunter Land Development 3672 County Rd. 6-1 Delta, OH 43515 419-822-3744 Glenn Hunter, pres.	Hunter Land Development	Fulton	sand & gravel	600	600	Ftn-H	IM-1336
Hydraulic Press Brick Co. 8900 Hemlock Rd. P.O. Box 31330 Independence, OH 44131 216-524-2950 Thomas E. Bennett, pres.	Hydraulic Press Brick Co.	Cuyahoga	shale	253,234	253,234	Cya-19 ⁴	IM-95
George J. Igel & Co., Inc. 2040 Alum Creek Dr. Columbus, OH 43207 614-445-8421 John B. Igel, pres.	George J. Igel & Co., Inc.	Pickaway	sand & gravel	384	2,784	Pky-C	IM-1223
J. L. & Son Excavating Inc. 8241 Ft. Laurens Rd. NW Strasburg, OH 44680 330-878-5883 Jerry L. Slankard, pres.	Beach City Pit	Tuscarawas	sandstone	225	300	Ts-2032	IM-1141
JBM Ltd. dba State Route 416 Sand & Gravel 764 State Route 416 SE New Philadelphia, OH 44663 330-339-4313 William P. Marino, Jr., pres.	State Rte. 416 Sand & Gravel	Tuscarawas	sand & gravel	79,224	79,224	Ts-2018	IM-1076

⁴This mine was operated January through September 2004 by Hydraulic Press Brick Co. and October through December 2004 by DiGeronimo Aggregates LLC.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Jaclib Enterprises, Inc. 560 State Route 554 Cheshire, OH 45620 740-367-0602 Jason C. Leach, pres.	Cheshire Pit	Gallia	sand & gravel	436	436	Ga-JE	IM-2034
JALIP, LTD. 16303 Twp. Rd. 124 Harpster, OH 43323 740-496-3025 David Herring, owner	JALIP, LTD.	Wyandot	sand & gravel	7,714	7,714	Wt-J	IM-2119
Janson & Sons Corp. 11829 Spencer Park Rd. Hiram, OH 44234 330-274-8896 Gary Janson, owner	Janson & Sons Corp.	Portage	sand & gravel	35,000	35,000	Pe-J	IM-2051
Jarrett Sand Co. 6505 Skadden Rd. Sandusky, OH 44870 419-359-1750 James Jarrett, owner	Jarrett Sand Co.	Erie	sand & gravel	1,968	1,968	Ee-29	
Jaymar, Inc. 8751 N. State Route 7 Cheshire, OH 45620 740-992-6637 Jay Hall, Jr., pres.	Jaymar, Inc. Plant #4 Plant #5	Gallia Meigs Meigs	sand & gravel sand & gravel sand & gravel	644,195	644,195	Ga-J Ms-308 Ms-L	IM-1145 IM-1174 IM-1159
Johnson Stone Products, Inc. 4018 Cleveland Rd. E Huron, OH 44839 440-315-3699 Terry A. Johnson, pres.	Kipton Quarry	Lorain	sandstone	5,600	5,600	Ln-J	IM-1300
Jones Fuel Company 350 Frank Rd. Columbus, OH 43207 614-443-4611 David C. Jones, pres.	Jackson	Franklin	clay			Fn-J	IM-2221
JP Sand & Gravel Co. 5911 Lockbourne Rd. P.O. Box 2 Lockbourne, OH 43137 614-497-0083 Richard A. Roberts, pres.	JP Sand & Gravel Co.	Franklin	sand & gravel	396,537	396,537	Fn-52	IM-191, IM-2193
K West Group LLC P.O. Box 30 Archbold, OH 43502 419-446-9106 Mark F. Murray, pres.	Kwest/Port Clinton	Ottawa	gypsum	39,383		Oa-2	IM-344
K.C.C.I. P.O. Box 1298 Steubenville, OH 43952 740-543-4389 David Krulock, pres.	Apex	Jefferson	limestone	36,038	35,976	Jfn-K	IM-1164
Keeney Sand & Stone, Inc. 13320 Girdled Rd. Painesville, OH 44077 440-254-4582 Dennis J. Keeney, pres.	Keeney Sand & Stone, Inc.	Lake	sandstone	122,832	122,832	Lke-K	IM-859
Kimble Clay & Limestone Co. 3596 State Route 39 NW Dover, OH 44622-9801 330-343-1226 Keith B. Kimble, pres.	Kimble Clay & Limestone Co.	Tuscarawas	limestone sandstone clay shale	100,000 60,000 5,000 1,500	100,000 60,000 5,000 1,500	Ts-1818	IM-9
King Limestone, Inc. 53681 Spencer Rd. Cumberland, OH 43732 740-638-3942 Duane King, pres.	King Limestone, Inc.	Guernsey, Muskingum	limestone	246,482	246,482	Gy-309	IM-1030

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
King Quarries, Inc. 41820 Twp. Rd. 4 Caldwell, OH 43724 740-732-2923 Mary King, pres.	King Quarries, Inc. King Quarries, Inc.	Noble Noble	limestone limestone	71,692	71,692	Ne-K1 Ne-K	IM-1292 IM-1254
Kinsman Materials, LTD. P.O. Box 76 Chardon, OH 44024 440-286-4757 Bill Clemson, pres.	Kinsman Materials, LTD.	Ashtabula	sand & gravel	85,010	85,010	Asa-20	IM-1198
Kipp's Gravel Co., Inc. 4987 State Route 222 Batavia, OH 45102 513-732-1024 Melvin M. Kipp, pres.	Kipp's Gravel Co., Inc.	Clermont	sand & gravel	14,360	14,360	Ct-7	IM-432
Kirby's Sand & Gravel, Inc. 4876 County Hwy. 43 Upper Sandusky, OH 43351-9155 419-927-2260 Gene Kirby, owner	Kirby's Sand & Gravel, Inc. Kirby's Sand & Gravel, Inc.	Wyandot Wyandot	sand & gravel sand & gravel	168,481	168,481	Wt-K Wt-17	IM-943 IM-604
Kleese Development Associates, Inc. 45 North Rd. Niles, OH 44446 330-652-5991 Robert S. Kleese, pres.	Kleese Development Associates	Trumbull	sand & gravel			TI-K	IM-1101
Knox County Board of Commissioners 117 E. High St. Mt. Vernon, OH 43050 740-397-1590 James L. Henry, county engineer	Apple Valley	Knox	shale	7,037	7,037	Kx-K	IM-870
Koch-Glitsch, Inc. Knight Division P.O. Box 30070 East Canton, OH 44730 330-488-1651 Mike Graeff, pres.	Koch Knight LLC	Stark	clay			Sk-K	IM-1236
Krizman Enterprises 53100 Placid Dr. South Bend, IN 46637 219-272-8887 David J. Krizman, pres.	Krizman Enterprises	Tuscarawas	sand & gravel			Ts-K	IM-2050
T & K Kuhnle Co. P.O. Box 375 Newbury, OH 44065 440-564-7168 Bob Russell, v. pres.	Munn Rd. Sand & Gravel	Geauga	sand & gravel	56,000	56,000	Gea-TK	IM-902
L & I Natural Resources, Inc. 10369 Cones Rd. Loveland, OH 45140 513-459-7716 Jerry Walker, pres.	L & I Pit & Mill	Warren	sand & gravel	113,579	113,579	Wan-50	IM-1006
L & M Mineral Co. 2010 County Rd. 144 Sugarcreek, OH 44681 330-852-3696 John E. Ling, Jr., pres.	Evans Heil L & M Rainsburg Luikart	Tuscarawas Tuscarawas Tuscarawas	shale clay sandstone	52,895 1,200 10,768	52,895 1,200 10,768	Ts-1884 Ts-H1 Ts-1914	IM-6 IM-927 D-0701
	Spring Industries Spring	Tuscarawas Tuscarawas	clay sand & gravel clay	10,692	10,692	Ts-SI Ts-1982	IM-569 IM-621
L. C. Trucking Company Inc. 732 S. Ludlow St. Dayton, OH 45402 937-222-8359 C. Larry Cornett, pres.	Waynesville Mulch & Topsoil	Warren	sand & gravel			Wan-LC	IM-2167

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
LUB Inc. 4174 East Pike Zanesville, OH 43701 740-452-3668 Otto Luburgh, pres.	LUB, Inc.	Muskingum	sand & gravel	14,802	14,802	Mum-LB	IM-2106
Lafarge Corp. Great Lakes Region P.O. Box 160 Paulding, OH 45879 419-399-4861 Philippe Rollier, pres.	Paulding Quarry	Paulding	limestone clay	662,893 166,081	662,893 166,081	Pg-1	IM-513
Lafarge North America 555 Frost Rd. Suite 100 Streetsboro, OH 44241 330-463-1200 Todd Ohlheiser, v. pres.	Kellstone, Inc. Petersburg Marblehead Shalersville Plant-Great Lakes	Erie Mahoning Ottawa Portage	limestone limestone limestone sand & gravel	1,050,000 631,200 4,151,430 846,595	1,050,000 626,883 4,496,679 900,431	Ee-K Mg-L Oa-7 Pe-68	IM-727 IM-1353 IM-440 IM-1107
Lakeside Sand & Gravel Co. 3431 Frost Rd. Mantua, OH 44255 330-274-2569 Larry Kotkowski, pres.	American Sand & Gravel, Inc. Lakeside Sand & Gravel Co.	Portage Portage	sand & gravel sand & gravel	469,758	469,758	Pe-A Pe-40	IM-1362 IM-190
L. A. Horn Excavating/ Construction, Inc. 35380 Hocking Dr. Logan, OH 43138 740-385-2625 Lucas A. Horn, pres.	L. A. Horn Excavating/Construction, Inc.	Hocking	sand & gravel	500	500	Hg-L	IM-2117
Latham Limestone, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Latham Limestone	Pike	limestone	279,600	279,600	Pke-13	IM-213
Lawson Limited Partnership dba ATS Mining P.O. Box 13070 Lexington, KY 40583 859-299-7001 Steve Lawson, plant mgr.	ATS Mining	Scioto	sand & gravel	167,628	152,628	So-79	IM-221
Link Trucking Co., Inc. 7305 State Route 669 N McConnelsville, OH 43756 740-962-4480 Glen Kussmaul, pres.	Matthew	Morgan	sand & gravel	34,472	34,472	Mon-L	IM-1266
Little Miami Sand & Gravel P.O. Box 36 Lebanon, OH 45036 513-932-3221 Paul N. Herdman, pres.	Little Miami Sand & Gravel Plant Little Miami Sand & Gravel Plant	Warren Warren	sand & gravel sand & gravel	3,400 400	3,400 400	Wan-B Wan-46	IM-679 IM-842
Logan Construction 3610 County Rd. 50 Rushsylvania, OH 43347 937-468-2356 Todd Mobley, owner	Logan Construction	Logan	sand & gravel			Lgn-L	IM-2064
Loxley Aggregates, Inc. 4277 Falls Rd. Lewisburg, OH 45338 937-839-5488 Matthew L. Loxley, pres.	Loxley Aggregates, Inc.	Preble	sand & gravel clay	4,345 2,944	4,345 2,944	Pre-9	IM-1095
Luburgh Inc. 4174 East Pike Zanesville, OH 43701 740-452-3668 Otto Luburgh, pres.	Cameron Brothers Luburgh Inc.	Muskingum Muskingum	clay clay	40,614	40,614	Mum-L2 Mum-L1	IM-2200 IM-2158

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Lucky Sand & Gravel Co. 12018 Frost Rd. Mantua, OH 44255 330-562-6196 Bernard Udelson, pres.	Lucky Sand & Gravel Co.	Portage	sand & gravel	57,101	40,001	Pe-L	IM-154
MacRitchie Materials, Inc. P.O. Box 90 West Millgrove, OH 43467 419-288-2790 Donald B. MacRitchie, pres.	MacRitchie Materials, Inc.	Wood	limestone	292,253	319,938	Wd-1	IM-548
MAR-DEL Enterprises, Inc. P.O. Box 6156 Chillicothe, OH 45601 740-775-3098 Marvin E. Riley, pres.	MAR-DEL Enterprises, Inc.	Jackson	sand & gravel	1,400	1,400	Jkn-M	IM-2209
Marshall Quarry, Inc. 11199 State Route 124 Hillsboro, OH 45133 937-466-2560 Ronald L. Main, pres.	Marshall Quarry, Inc.	Highland	limestone	972	972	Hd-4	IM-406
Martin Marietta Aggregates 300 Star Ave. Suite 312 Parkersburg, WV 26101 304-485-7341 John M. Hays, v. pres.	Apple Grove Plant	Meigs	sand & gravel	753,097	972,694	Ms-205	IM-30
Martin Marietta Aggregates 4770 Duke Dr. Suite 200 Mason, OH 45040 513-701-1141 Geoff Harris, pres.	Fairfield II Gravel	Butler	sand & gravel			Br-14	IM-147
	Fairfield Sand & Gravel	Butler	sand & gravel	2,033,121	2,199,594	Br-35	IM-200
	Hamilton Gravel	Butler	sand & gravel	489,000	576,660	Br-5	IM-153
	Ross Sand & Gravel	Butler	sand & gravel	717,513	731,935	Br-29	IM-149
	Fairborn Gravel	Clark	sand & gravel	710,060	755,964	Ck-13	IM-366
	Clinton Limestone	Clinton	limestone		230,000	Cln-W	IM-2160
	Blue Rock Limestone	Fayette	limestone	239,774	12,565	Fe-2	IM-169
	Cedarville	Greene	limestone	880,616	798,729	Ge-17	IM-435
	Haines Rd.	Greene	sand & gravel			Ge-32	IM-400
	Spring Valley North	Greene	sand & gravel			Ge-38-1	IM-333
	Spring Valley S & G	Greene	sand & gravel	323,887	45,111	Ge-42	IM-954, IM-2123
	Xenia S & G	Greene	sand & gravel	721,060	760,179	Ge-33	IM-379
	E-town Sand & Gravel	Hamilton	sand & gravel	1,102,176	614,539	Hmn-71	IM-771
	Harrison Sand & Gravel	Hamilton	sand & gravel	363,831	304,182	Hmn-37	IM-170
	Miamitown	Hamilton	sand & gravel			Hmn-D	IM-1079
Martin Marietta Magnesia Specialties, Inc. 755 Lime Rd. Woodville, OH 43469 419-849-4200 Steve Raffensperger, pres.	Stuart Pit	Hamilton	sand & gravel			Hmn-P	IM-1333
	Lynchburg Quarry	Highland	limestone	809,173	715,675	Hd-M	IM-1170
	Troy Gravel	Miami	sand & gravel	501,144	563,946	Mi-3	IM-462, IM-658
	Phillipsburg	Montgomery	limestone	1,080,445	1,049,475	My-1	IM-374
	Rip Rap Rd.	Montgomery	sand & gravel	55,920		My-66	IM-677
R. J. Martin Service & Excavating 1875 Roxanna-New Burlington Rd. Waynesville, OH 45068 937-862-4182 Roger J. Martin, pres.	Franklin Gravel	Warren	sand & gravel	560,376	549,788	Wan-38	IM-615
	Woodville Quarry	Sandusky	limestone	2,788,573	2,782,573	Sy-1	IM-537
Massillon Materials, Inc. 26 N. Cochran St. P.O. Box 499 Dalton, OH 44618 330-837-4767 Howard J. Wenger, pres.	Massillon Materials, Inc. MMI Warmington Plant MMI Sandyville Plant	Stark Stark Tuscarawas	sand & gravel sand & gravel sand & gravel	442,073 302,693 152	442,073 302,693 152	Sk-M Sk-M1 Ts-MM	IM-1031 IM-1332 IM-1324

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Mathews Sand & Gravel 5061 Monroe Center Conneaut, OH 44030 440-594-1130 Edward G. Mathews, owner	Mathews Sand & Gravel	Ashtabula	sand & gravel	340	340	Asa-M	IM-1301
Mecco, Inc. 2504 S. Main St. Middletown, OH 45042 513-422-3781 David T. Morgan, pres.	Mecco, Inc.	Butler	sand & gravel	158,151	167,701	Br-15	IM-316
Mechanicsburg Sand & Gravel, Inc. P.O. Box 18 Mechanicsburg, OH 43044 937-834-2606 James G. Cushman, pres.	Mechanicsburg Sand & Gravel, Inc.	Champaign	sand & gravel	231,592	231,592	Cpn-22	IM-889
Meigs County Commissioners 34110 Fairground Rd. Pomeroy, OH 45769 740-992-2911 Randy K. Pyles, super.	Letart Pit	Meigs	sand & gravel	10,600	10,600	Ms-301	IM-619
The Melvin Stone Co., LLC P.O. Box 158 Sabina, OH 45169 937-584-2486 Dennis J. Garrison, pres.	Melvin Stone Co. LLC Fayette Bowersville Circleville Williamsport Plano Road	Clinton Fayette Greene Pickaway Pickaway Ross	limestone limestone limestone sand & gravel limestone limestone	1,591,537 411,604 371,421 496,770 418,535	1,627,724 421,737 316,264 453,417 342,174	Cln-1 Fe-1 Ge-M Pky-R Pky-4 Rs-MC1	IM-241 IM-831 IM-2052 IM-993 IM-209 IM-1298
Menuez Bros. Sand & Gravel, Inc. 5366 County Rd., 349 Route 1 Millersburg, OH 44654 330-674-4254 J. Mark Menuez, v. pres.	Menuez Bros. Sand & Gravel, Inc.	Holmes	sand & gravel	253,058	256,000	Hs-82	IM-707
Mesenburg Bros., Inc. 2366 Wells Rd. Collins, OH 44826 419-668-5691 Peter J. Mesenburg, pres.	Mesenburg Bros., Inc.	Huron	sandstone	13,252	13,252	Hrn-8	IM-268
Miami River Stone Co. 1700 Miami River Rd. Sidney, OH 45365 937-492-5412 Thomas P. Milligan, pres.	Miami River Stone Co. Rock Run Staley Pit Washington Twp. Pit	Shelby Shelby Shelby Shelby	limestone sand & gravel limestone sand & gravel limestone sand & gravel sand & gravel	543,555 125,549 10,153	519,937 25,843	Shy-17 Shy-16 Shy-SS Shy-13	IM-389 IM-411 IM-438 IM-412
Miami View Mining Co., Ltd. 998-B East Ridge Dr. Lebanon, OH 45036 513-932-6481 David Oeder, managing mbr.	Miami View	Warren	sand & gravel	645,686	645,686	Wan-MV	IM-1329
Miller Bros. Gravel, Inc. 7900 S. Kessler-Frederick Rd. Tipp City, OH 45371 937-836-0981 Thomas O. Miller, pres.	Miller Bros. Gravel, Inc.	Montgomery	sand & gravel	313,818	333,588	My-52	IM-348
Miller's Sand & Gravel, Inc. 10228 State Route 82 Windham, OH 44288 330-326-3157 Brian K. Miller, pres.	Miller Sand & Gravel, Inc.	Portage	sand & gravel clay	12,236	12,236	Pe-39	IM-1078
Millersville Lime Inc. 3964 County Rd. 41 Millersville, OH 43435-9786 419-638-2511 Bob Derks, pres.	Millersville Plant Woodviille Plant	Sandusky Sandusky	limestone limestone	437,851	447,851	Sy-4 Sy-3	IM-381 IM-282

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Mills Rock, Sand, & Soil Inc. 4022 State Route 303 Mantua, OH 44255 330-297-0215 Karl Stuble, pres.	303 Sand & Gravel	Portage	sand & gravel	100,463	100,463	Pe-M	IM-1312
Moon Enterprises, Inc. 2701 S. Eber Rd. Monclova, OH 43542 419-866-1317 Kenneth Mark Moon, pres.	Moon Enterprises, Inc.	Lucas	sand & gravel			Ls-ME	IM-1345
Moore's Excavating Co. 2222 N. U.S. Hwy. 68 Urbana, OH 43078 937-653-6288 Dorothy Moore, pres.	Moore's Excavating Co. Moore's Excavating Co. Moore's Excavating Co.	Champaign Champaign Clark	sand & gravel sand & gravel sand & gravel	131 4,199 2,212	4,199 2,212	Cpn-25 Cpn-20 Ck-29	IM-1227 IM-482 IM-1233
Moraine Materials Co., Inc. 9661 Sugar St. Germantown, OH 45327 937-855-2228 George Kling, pres.	Germantown Plant 21 Embros, Inc.	Montgomery Warren	sand & gravel sand & gravel	293,200 1,000	293,200 1,000	My-41 Wan-7	IM-360 IM-151
Morrow Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 Dennis Garrison, pres.	Urbana Pike County Morrow Gravel Co. Morrow Gravel Co.	Champaign Pike Warren Warren	sand & gravel sand & gravel sand & gravel sand & gravel	261,421 475,014	261,421	Cpn-1 Pke-M Wan-M1 Wan-M	IM-371 IM-1325 IM-1051 IM-728, IM-1065
Morton International, Inc. Morton Salt Division 151 S. Industrial St. P.O. Box 337 Rittman, OH 44270-0337 330-925-3015 Walter W. Becky, pres.	Morton Salt Well Field	Wayne	salt	518,592	526,515	We-9129	
Morton International, Inc. Morton Salt Division P.O. Box 428 Grand River, OH 44045-0428 440-639-4243 Paul R. Schank, facility mgr.	Fairport Mine	Lake	salt	1,160,906	1,158,568	Lke-6	
Muskingum River Gravel Co. P.O. Box 1585 Zanesville, OH 43702-1585 740-453-0721 Nick Little, pres.	S & S Aggregate #8 Plant #4 S & S Aggregate #1 S & S Aggregate S & S Aggregate Plant #7 Plant #2	Hocking Muskingum Muskingum Muskingum Ross Washington	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	161,243 244,443 210,063 21,896	150,425 243,633 215,330 19,830	Hg-301 Mum-262 Mum-228 Mon-M Rs-M Wn-38	IM-458 IM-422 IM-421 IM-0718 IM-114 IM-701
National Aggregates, Inc. P.O. Box 340 Malvern, OH 44644 330-866-1999 William Scheckler, pres.	National Aggregates, Inc.	Stark	sand & gravel	349,119	349,119	Sk-1017	IM-1186
National Lime & Stone Co. P.O. Box 120 Findlay, OH 45839-0120 419-422-4341 Ronald W. Kruse, pres.	Lima Plant Buckland Plant Wapakoneta Plant Bucyrus Plant Delaware Limestone Delaware Plant Meredith Quarry Findlay Plant Ridge Quarry County Line Quarry Hamilton Quarry Marion Plant Rimer Plant Carey Plant Sammet Upper Sandusky Plant	Allen Auglaize Auglaize Crawford Delaware Delaware Delaware Hancock Hancock Hardin Marion Marion Putnam Wyandot Wyandot Wyandot	limestone limestone sand & gravel limestone limestone limestone limestone limestone limestone limestone limestone limestone limestone limestone limestone sand & gravel	1,036,000 603,000 2,835,000 4,474,000 1,092,000 794,000 155,000 3,229,000 282,000	1,036,000 603,000 2,845,000 4,474,000 1,092,000 794,000 155,000 3,229,000 282,000	An-3 Ae-10 Ae-30 Cd-1 Del-3 Del-5 Del-2 Hk-7 Hk-A Hdn-N Mn-2 Mn-3 Pm-N Wt-1 Wt-N Wt-15	IM-484 IM-486 IM-598 IM-404 IM-327 IM-207 IM-299 IM-1002 IM-1299 IM-2072 IM-423 IM-168 IM-0479 IM-405 IM-2132 IM-376, IM-551

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Neer's Sand & Gravel 4859 Twp. Rd. 45 Bellefontaine, OH 43311 937-585-6733 Arden J. Neer, Sr., owner	Neer's Sand & Gravel	Logan	sand & gravel	167,184	194,754	Lgn-6	IM-459
Nelson Sand & Gravel, Inc. P.O. Box 466 Kingsville, OH 44048 440-224-0198 Thomas H. Nelson, pres.	Nelson Sand & Gravel, Inc.	Ashtabula	sand & gravel	62,900	62,900	Asa-N1	IM-2102
Newbury Sand & Gravel, Inc. 14757 Ravenna Rd. Burton, OH 44021 440-834-0200 Tom Thomas, pres.	Newbury Sand & Gravel, Inc.	Geauga	sand & gravel sandstone clay	109,101 29 457	109,101 29 457	Gea-N	IM-1123
Newton Asphalt Paving, Inc. P.O. Box 86 Strasburg, OH 44680 330-878-5648 George A. Gessner, pres.	516	Tuscarawas	sand & gravel	137,957	137,957	Ts-2001	IM-1004
J. E. Nicolozakes Co. 62920 Georgetown Rd. Cambridge, OH 43725 740-435-3222 John E. Nicolozakes, pres.	Bank One	Tuscarawas	sand & gravel	160,000	160,000	Ts-N	IM-2032
Andy Nixon Contractors, Inc. 13307 County Rd. J35 Montpelier, OH 43543 419-737-2060 Carol J. Nixon, pres.	Nixon Pit	Williams	sand & gravel	159,696	159,696	Ws-N	IM-1291
North Shore Stone Quarries, Inc. 72 Fernhill Ave. Columbus, OH 43228 614-878-0620 Clifford Hammond, pres.	North Shore Stone Quarries, Inc.	Seneca	limestone	3,446	3,446	Sa-8	IM-313
Northwest Ohio Property Developments, Ltd. P.O. Box 14 Defiance, OH 43512 419-784-4850 Paul E. Gaeke, pres.	NOPD, Ltd.	Fulton	sand & gravel	44,408	44,408	Ftn-NW	IM-2138
Nuway Services, Inc. 3441 Sportsman Club Rd. Johnstown, OH 43031 740-587-2451 Melvin McInturff, pres.	Hopewell	Licking	clay	14,560	14,560	Lg-NU	IM-2046
Carl E. Oeder & Sons Sand & Gravel 3890 Turtlecreek Rd. Lebanon, OH 45036 513-494-1238 Carl E. Oeder, pres.	Carl E. Oeder and Sons Sand & Gravel	Warren	sand & gravel	391,552	391,552	Wan-41	IM-629
Oglebay Norton Industrial Sands, Inc. 2446 Glassrock Rd. Glenford, OH 43739 740-342-8710 Steve Bell, dir. of oper.	Millwood Plant Glass Rock Plant	Knox Perry	sandstone sandstone	87,600 210,287	87,600 210,287	Kx-1 Py-344	IM-269 IM-1014
Ohio Asphaltic Limestone Corp. 8591 Mad River Rd. Hillsboro, OH 45133 937-364-2191 W. C. Mason, Jr., pres.	Ohio Asphaltic Limestone Corp. Ohio Asphaltic Limestone Corp. Ohio Asphaltic Limestone Corp.	Highland Highland Highland	limestone limestone limestone	461,837	461,837	Hd-O1 Hd-O Hd-3	IM-2068 IM-2056 IM-253

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Olen Corp. 4755 South High St. Columbus, OH 43207-4028 614-491-1515 Kenneth W. Holland, pres.	Columbus Plant #3 Darel L. Hathaway Hyatt Road Plant #2 St. Louisville Plant #5 Chillicothe Upper Sandusky	Franklin Knox Knox Licking Ross Wyandot	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel limestone	2,443,000 507,000 478,000 227,000 765,000	2,443,000 507,000 478,000 227,000 765,000	Fn-58 Kx-DH Kx-16 Lg-31 Rs-G Wt-3	IM-1023 IM-2078 IM-793 IM-246 IM-2099 IM-298
Oneida Sand & Gravel, Inc. P.O. Box 910 Malvern, OH 44644 330-863-0808 Rodney L. Smitley, pres.	Oneida Sand & Gravel, Inc.	Carroll	sand & gravel	40,000	40,000	Cl-204	IM-554
Osborne Materials Co. P.O. Box 248 Grand River, OH 44045-0248 440-357-5562 Harold T. Larned, pres.	Osborne Materials Co.	Lake	sand & gravel	68,252	68,252	Lke-dredge	
Oster Sand & Gravel, Inc. 5947 Whipple Ave. NW North Canton, OH 44720-7692 330-494-5472 Marlene K. Oster, pres.	Malvern Plant Massillon Plant Mudbrook Plant Oster Sand & Gravel, Inc.	Carroll Stark Stark Tuscarawas	sand & gravel sand & gravel sand & gravel sand & gravel	705,401 705,401 255,096	705,401 705,401 255,096	Cl-O Sk-165 Sk-R Ts-2036	IM-2082 IM-192 IM-697 IM-1155
Ours Sand & Gravel 20444 State Route 7 S Crown City, OH 45623 740-256-1378 Donald A. Ours, owner	Ours Sand & Gravel	Gallia	sand & gravel	3,320	3,320	Ga-O	IM-1028
Oxford Mining Co., Inc. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	Barr Farm Stone Creek	Stark Tuscarawas	limestone clay clay	115,308 201,777 1,397	115,308 201,777 1,397	Sk-235 Ts-H7	IM-945 D-2109
Patrick Excavating, Inc. 5839 State Route 5 P.O. Box 38 Ravenna, OH 44266 330-296-7706 Tim Patrick, pres.	Patrick	Portage	sand & gravel clay	121 4,646	121 4,646	Pe-P	IM-1322
R. H. Penick Co. 1504 Blue Jay Rd. Heath, OH 43056-1767 740-323-3040 R. H. Penick, owner	R. H. Penick Co.	Licking	salt	9,745	9,745	Lg-45	
Phillips Sand & Gravel P.O. Box 187 Alpha, OH 45301 937-431-7986 Richard Phillips II, pres.	Phillips Sand & Gravel	Greene	sand & gravel	483,865	483,865	Ge-36	IM-305
Piqua Materials, Inc. Piqua Minerals Division 1750 W. Statler Rd. Piqua, OH 45356 937-773-4824 Albert Donovan, mgr.	Piqua Minerals Division	Miami	limestone	704,316	750,052	Mi-1	IM-382
C. F. Poeppelman, Inc. 4755 N. State Route 721 Bradford, OH 45308 937-448-2191 James C. Poeppelman, pres.	C. F. Poeppelman, Inc.	Miami	limestone	402,010	402,010	Mi-10	IM-335
Power Development Corp. P.O. Box 936 Malvern, OH 44644 330-863-0603 Paul W. Robertson, pres.	Power Development/Robertson	Carroll	sand & gravel	2,250	4,350	Cl-PD	IM-1352

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Prairie Lane Sand & Gravel Co. 3001 Prairie Lane Rd. P.O. Box 233 Wooster, OH 44691 330-262-6821 Ralph W. Miller, pres.	Prairie Lane Sand & Gravel Co.	Wayne	sand & gravel shale	62,196 3,698	64,152 3,698	We-11 ⁵	IM-547
Precision Aggregate, Inc. 12205 E. Gypsy Lane Rd. Bowling Green, OH 43402 419-352-4681 Randolph Schmeltz, pres.	Precision Aggregate I	Wyandot	sand & gravel	88,000	88,000	Wt-4	IM-520
Precision Aggregates III, LLC 12205 E. Gypsy Ln. Bowling Green, OH 43402 419-352-4681 Randolph G. Schmeltz, pres.	Precision Aggregates III, LLC	Sandusky	limestone sand & gravel	167,400 8,000	167,400 8,000	Sy-5-1	IM-0259
	Precision Aggregates III, LLC	Wood	limestone	160,000	160,000	Wd-14	IM-1157
Putnam Stone Co. 7053 Rd. M Ottawa, OH 45875-9754 419-523-6004 Tony Shroyer, pres.	Putnam Stone Co.	Putnam	limestone	258,454	220,870	Pm-2	IM-570
Quality Ready Mix, Inc. 12201 Fryburg Rd. Wapakoneta, OH 45895 419-738-2817 Robert E. Hirschfeld, pres.	Quality Pit	Auglaize	sand & gravel	30,587	30,587	Ae-16	IM-595
Quality Stone Co. 8751 N. State Route 7 Cheshire, OH 45620 740-992-6637 Jay Hall, Jr., pres.	Quality Stone Co. Route 32	Vinton Vinton	limestone limestone	530,256	530,256	Vn-190 Vn-193	D-0761
R & S Materials, Inc. P.O. Box 54 Clinton, OH 44216 330-499-1024 Gary A. Ross, pres.	Copley Sand & Gravel	Summit	sand & gravel			St-54	IM-934
R. L., Ltd. 5850 Dryfork Rd. Cleveland, OH 45002 513-367-5700 Rick Ashcraft, v. pres.	R. L. Ltd.	Hamilton	sand & gravel	1,398	1,398	Hmn-67	IM-529
Rainbow Sand & Gravel, Inc. P.O. Box 240 Bristol, OH 44402 330-889-9400 Rex King, pres.	Rainbow Sand & Gravel, Inc.	Portage	sand & gravel	67,597	67,597	Pe-64	IM-1017
Razor Lake S. & G., LLC 59894 County Rd. 9 Newcomerstown, OH 43832 866-492-0727 Terry L. Jurin, owner	Razor Lakes S. & G., LLC	Coshocton	sand & gravel	2,332	2,332	Cn-R	IM-2175
Red Brush Peat Co. 6945 Red Brush Rd. Ravenna, OH 44266 330-297-0923 Barbara H. Linger, owner	Red Brush Peat Co.	Portage	clay	58	58	Pe-61	IM-1064
Richards Service Garage 2170 Wilberforce-Clifton Rd. Xenia, OH 45385 937-372-8263 Roger Richards, owner	Richards Service Garage	Greene	sand & gravel	75	75	Ge-R	IM-829

⁵This mine was operated January through May 2004 by Prairie Lane Sand & Gravel Co. and June through December 2004 by Wooster Aggregates LLC.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Ridge Township Quarry 16905 Middlepoint Rd. Van Wert, OH 45891 419-238-2533 Jenny Lautenschleger, foreman	Ridge Township Quarry	Van Wert	limestone	136,044	136,044	Vt-7	IM-642
Riverside Sand & Gravel Co., Inc. P.O. Box 324 Tallmadge, OH 44278-0324 330-673-2021 Albert H. Acken, Jr., pres.	Riverside Sand & Gravel Co., Inc.	Summit	sandstone	2,484	2,484	St-24	IM-239
Gary Roberts Excavating 570 Derby Downs Rd. Newark, OH 43055 740-763-3206 Gary L. Roberts, owner	Gary Roberts Excavating	Licking	sand & gravel	980	980	Lg-504	IM-991
Rockwell Sand & Gravel, Inc. P.O. Box 2177 Streetsboro, OH 44241 330-626-5577 Roger Schuck, pres.	Rockwell Sand & Gravel, Inc. Ruefner	Portage Portage	sand & gravel sand & gravel	17,513	17,513	Pe-85 Pe-R	IM-700 IM-2037
Dale B. Rohr 10794 Strusser St. NW Canal Fulton, OH 44614 330-854-4004 Dale B. Rohr, owner	Dale B. Rohr	Stark	sand & gravel	104,000	104,000	Sk-RO	IM-2084
Roy M. Roush 11278 Darby Creek Rd. Orient, OH 43146 614-877-4792 Roy M. Roush, owner	R Farm S & G	Pickaway	sand & gravel	3,266	3,266	Pky-RR	IM-2040
Rubel Quarry, Inc. 35479 State Route 78 Lewisville, OH 43754 740-567-3217 Randy Rubel, pres.	Rubel Quarry, Inc.	Monroe	limestone			Me-509	IM-1094
Rumpke Mountain Mining Co. 10795 Hughes Rd. Cincinnati, OH 45251 513-851-0122 William J. Rumpke, pres.	Rumpke Mountain Mining Co.	Hamilton	clay			Hmn-72	IM-1264
Rumpke Waste, Inc. 9427 Beyers Rd. Georgetown, OH 45121 513-851-0122 William Rumpke, pres.	Rumpke Waste, Inc.	Brown	clay shale	48,017 29,580	48,017 29,580	Bn-W	IM-2076
Rupp Construction, Inc. 18228 Fulton Rd. Marshallville, OH 44645 330-855-2781 Gary D. Radabaugh, pres.	Rupp Construction, Inc.	Wayne	sand & gravel	334,500	334,500	We-7	IM-471
S & S Aggregate, Inc. P.O. Box 1585 Zanesville, OH 43702-1585 740-453-0721 Nick Little, v. pres.	Plant #6 S & S Agg. #16 Twin Lakes - S & S Agg. #10 Twin Lakes - S & S Agg. #11 S & S Agg. #14 Twin Lakes - S & S Agg. #9	Franklin Portage Portage Portage Richland Summit	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	326 608,154 467,630 77,948	326 599,398 529,088 84,115	Fn-24 Pe-15 Pe-67 Pe-59 Rd-5 St-44	IM-266 IM-104 IM-202 IM-210 IM-470 IM-178
S.R.I., Inc. 1550 Soldiers Home W Dayton, OH 45418 937-268-8991 Steve Rauch, pres.	S.R.I., Inc.	Montgomery	sand & gravel	244	244	My-R	IM-539

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
SDI Steel Buildings LLC 713 Keystone St. Crooksville, OH 43731 740-982-4280 Mark B. Swingle, pres.	SDI Steel Buildings, Ltd.	Perry	clay	1,680	1,680	Py-SDI	IM-2182
Salt Creek Materials 880 Spry Rd. Zanesville, OH 43701 614-872-3860 Charles Lighthizer, pres.	Salt Creek Materials	Muskingum	sand & gravel			Mum-216	IM-689
Sandkuhl Clay Works, Inc. 05536 Kossuth-Amanda Rd. Spencerville, OH 45887 419-647-2905 Leslie E. Sandkuhl, pres.	Sandkuhl Clay Works, Inc.	Auglaize	clay	4,785	4,785	Ae-7	
Sandman Trucking, Inc. 9025 Old Airport Highway Holland, OH 43528 419-865-1666 Robert H. Parker, Jr., pres.	Sandman Trucking, Inc. Sandman Trucking, Inc. Sandman Trucking, Inc. Sandman Trucking, Inc. Sandman Trucking, Inc.	Fulton Fulton Lucas Lucas Lucas	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	160,357	160,357	Ftn-SA Ftn-SA1 Ls-T Ls-ST1 Ls-ST	IM-1335 IM-2136 IM-2012 IM-2060 IM-2001
Guy Schieve 52943 State Route 113 Wakeman, OH 44889 440-965-8792 Guy Schieve, owner	Schieve Pit	Lorain	sand & gravel	7,098	7,098	Ln-12	IM-731
Schloss Materials Co. 13700 McCracken Rd. Cleveland, OH 44125 216-587-4900 Raymond E. Schloss, Jr., pres.	Schloss Materials Co. Schloss Materials Co.	Portage Portage	sand & gravel sand & gravel	118,000	118,000	Pe-60 Pe-SM	IM-78 IM-499
Schrader and Son, Inc. 15317 Beaver Pike Jackson, OH 45640 740-286-0258 Jeffrey L. Schrader, pres.	Schrader & Son, Inc.	Pike	sandstone	25,247	25,247	Pke-S	IM-1348
Roy B. Schweitzer dba The Gravel Co. 700 W. Pete Rose Way Cincinnati, OH 45203 513-721-6000 Roy B. Schweitzer, pres.	New Miami Pit Cleves	Butler Hamilton	sand & gravel sand & gravel			Br-3 Hmn-28	IM-719 IM-353
Scioto Sand & Stone, Inc. P.O. Box 2423 Huntinton, WV 25725 740-574-5058 Talbert Ball, pres.	Scioto #1	Scioto	sand & gravel	14,000	14,000	So-BT	IM-1286
Mark E. Scott P.O. Box 6112 Chillicothe, OH 45601 740-772-4990 Mark E. Scott, owner	Scott Pit	Ross	sand & gravel	15,000	15,000	Rs-P	IM-122
Seville Sand & Gravel, Inc. 8215 Seville Rd. Lodi, OH 44254 330-948-1812 George Cross, pres.	Seville Sand & Gravel, Inc.	Medina	sand & gravel	252,210	252,210	Ma-22	IM-425, IM-442, IM-650, IM-651
Betty Sewell and Rebecca Johnson 3403 U.S. Route 68 S Bellefontaine, OH 43311 740-922-3942 Mary J. Brown, pres.	Johnson Gravel Pit	Logan	sand & gravel			Lgn-J	IM-2053

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Shady Bend Sand & Gravel 550 Pleasant Valley Rd. NW P.O. Box 336 Sugarcreek, OH 44681 330-852-4862 Daniel O. Miller, owner	Shady Bend Sand and Gravel	Coshocton	sand & gravel	103,326	103,326	Cn-624	IM-243
Shamrock Materials, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Fort Jefferson Stone Shamrock	Darke Butler	limestone sand & gravel	400,000 406,786	400,000 406,786	Dke-1 Br-52	IM-362 IM-814
Sharon Stone Co. P.O. Box 100 Dexter City, OH 45727 740-783-3575 John P. McCort, pres.	Sharon Stone Co. Belpre Sand & Gravel	Noble Washington	limestone clay sand & gravel	111,068 196,079	111,068 196,079	Ne-S Wn-SS	IM-913 IM-2006
Shelly Materials, Inc. 80 Park Dr. P.O. Box 266 Thornville, OH 43076 740-246-6315 Dan Montgomery, pres.	Shelly Materials, Inc. Plant #1336 Shelly Materials, Inc. Plant #1303 Shelly Materials, Inc. Plant Shawnee #324 Shelly Materials, Inc. Plant #1314 Columbus Limestone #331 Lockbourne #1333 Marble Cliff Plant #0332 Eagle Material Supply Ltd. Plant #1312 Van Wey Sand & Gravel Plant #1312 Belle Center Plant #8 East Liberty #326 Tri-County Limestone Co. Shelly Materials, Inc. Plant #1306 East Fultonham Shelly Materials, Inc. Plant Jefferson Materials Co. Shelly Material, Inc. Plant #1321 Allied Corp., Inc. #1301 Allied Corp., Inc. Shelly Materials, Inc. Plant #0310 York Center #11 Shelly Materials, Inc. Plant #1341 Wyandot Dolomite	Champaign Clark Coshocton Delaware Fairfield Franklin Franklin Franklin Licking Licking Logan Logan Marion Meigs Muskingum Muskingum Portage Ross Stark Stark Union Union Washington Wyandot	sand & gravel sand & gravel sand & gravel limestone sand & gravel limestone sand & gravel limestone sand & gravel sand & gravel limestone limestone limestone sand & gravel limestone sand & gravel limestone sand & gravel sand & gravel sand & gravel sand & gravel limestone limestone sand & gravel limestone	349,300 289,071 744,755 5,054,067 788,886 2,049,093 253,989 699,018 414,000 261,900 551,674 1,188,827 256,165 422,995 208,451 684,110 1,992,648 510,000 519,211 1,865,000	349,300 289,071 744,755 5,054,067 788,886 2,049,093 253,989 699,018 414,000 261,900 551,674 1,188,827 256,165 422,995 208,451 684,110 1,992,648 510,000 519,211 1,974,000	Cpn-21 Ck-25 Cn-694 Del-4 Fd-13 Fn-53 Fn-23 Fn-2 Lg-W Lg-10 Lgn-2 Lgn-1 Mn-1 Ms-298 Mum-106 Mum-799 Pe-63 Rs-27 Sk-N Sk-173 Un-2 Un-1 Wn-C Wt-8	IM-616 IM-358 IM-293 IM-262 IM-848 IM-1331 IM-185 IM-183 IM-261 IM-1213 IM-217 IM-494 IM-574 IM-250 IM-32 IM-297 IM-317, IM-264 IM-82 IM-1098 IM-156 IM-879 IM-236 IM-208 IM-1315 IM-273
Shelly Materials, Inc. 12484 State Route 701 Kenton, OH 43326 937-464-3833 Dan Montgomery, pres.	Hardin Quarry	Hardin	limestone	205,000	205,000	Hdn-2	IM-443
Sidco Development, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2422 Jeffrey R. Sidwell, pres.	Columbia Cement Midvale Sand & Gravel	Muskingum Tuscarawas	limestone limestone sand & gravel	 3,804 220,613	 3,804 220,613	Mum-SD Ts-S2	IM-1313 IM-1356
R. W. Sidley, Inc. 615 W. Main St. Conneaut, OH 44030 440-352-9343 Robert Buescher, pres.	Sidley-Kingsville Plant	Ashtabula	sand & gravel	136,000	102,000	Asa-15	IM-783
R. W. Sidley, Inc. 7123 Madison Rd. Thompson, OH 44086 440-352-9343 Robert Buescher, pres.	Sidley-Hamden Pit Thompson Pit Sidley-Painesville Plant	Geauga Geauga Lake	sandstone sandstone sand & gravel	450 120,000 4,000	450 145,000 4,000	Gea-S Gea-1 Lke-7	IM-161 IM-163 IM-162
Sidney Sand & Gravel Co. 1700 Miami River Rd. Sidney, OH 45365 937-492-5412 Thomas P. Milligan, pres.	Wagner Pit	Shelby	sand & gravel			Shy-S	IM-1005

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2394 Jeffrey R. Sidwell, pres.	Bellaire Stone	Belmont	limestone	130,970	130,970	Bt-1190	IM-1089
	Uniontown Stone	Belmont	sandstone limestone	16,770 291,160	16,770 291,160	Bt-N	IM-1283
	Dupler/Ford	Muskingum	sandstone limestone	291,450	291,450	Mum-SB	IM-1212, IM-1269
	Moore Sidwell Materials, Inc. White Cottage	Muskingum Muskingum Muskingum	limestone limestone limestone	459,096	459,096	Mum-S Mum-SW Mum-104	IM-2214 IM-2092 IM-277
Joe Simak & Sons Trucking, Inc. 3052 E. Center St. P.O. Box 599 North Kingsville, OH 44068 440-224-1992 Joseph E. Simak, pres.	Amboy Pit	Ashtabula	sand & gravel	23,256	23,256	Asa-ST	IM-1349
	Baird Pit	Ashtabula	sand & gravel	55,560	55,560	Asa-JS	IM-1360
	Dreslinski Pit	Ashtabula	sand & gravel	38,500	38,500	Asa-JS1	IM-2130
	North Ridge Pit	Ashtabula	sand & gravel clay	10,062	10,062	Asa-18	IM-949
Small's Sand & Gravel, Inc. P.O. Box 617 Gambier, OH 43022 740-427-3677 Michael W. Small, pres.	Small's Sand & Gravel, Inc. Small's Sand & Gravel, Inc. Small's Sand & Gravel, Inc.	Knox	sand & gravel	36,731	36,731	Kx-S	IM-2000
		Knox	sand & gravel	382,722	382,722	Kx-15	IM-967
		Knox	sand & gravel	280	280	Kx-17	IM-968
George C. Smith/Mason's Sand & Gravel Co. 2385 Rathmell Rd. Obetz, OH 43207 614-491-3611 George C. Smith, pres.	Mason's Sand & Gravel Co.	Franklin	sand & gravel	120,885	120,885	Fn-11	IM-234
Sober Sand & Gravel Co. 2898 Tallmadge Rd. Ravenna, OH 44266 330-325-7088 Tracy Sober, pres.	Sober Sand & Gravel Co.	Portage	sand & gravel	206,544	206,544	Pe-18	IM-193
Soehnlén Bros. Sand & Gravel, Inc. 10449 Soehnlén Rd. NW Beach City, OH 44608 330-756-2244 Francis L. Soehlen, pres.	Soehnlén Bros. Sand & Gravel, Inc.	Tuscarawas	sand & gravel	130,212	130,212	Ts-1826	IM-88
Solomon's Mines, Inc. 7732 Salem-Unity Rd. Salem, OH 44460 330-337-0123 Jack Solomon, owner	Solomon's Mines, Inc.	Columbiana	sand & gravel sandstone	32,363 159,444	32,363 159,444	Ca-S	IM-1258
	Solomon's Mines #1	Mahoning	clay			Mg-632	IM-808
Solon Excavators Sand & Gravel, Inc. P.O. Box 850 Mantua, OH 44255 330-274-8241 Howard Sargent, pres.	Brugman Burke Valley Brook	Portage	sand & gravel			Pe-S1	IM-2126
		Portage	sand & gravel			Pe-36	IM-90
		Portage	sand & gravel	212,743	212,743	Pe-V1	IM-2151
Soltis Sand & Gravel P.O. Box 452 Parkman, OH 44080 440-548-5813 James Soltis, owner	Soltis Sand & Gravel	Geauga	sand & gravel clay	1,588 1,064	10,740 1,064	Gea-9	IM-132
South Central Sand & Gravel 340 Bailey Chapel Rd. Piketon, OH 45661 740-289-2629 James A. Nier, owner	South Central Sand & Gravel	Pike	sand & gravel	17,299	17,299	Pke-30	IM-786
Southern Ohio Aggregates, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 Dennis Garrison, pres.	New Miami Plant E. Miami River Road Kilby Road Gratis Plant	Butler Hamilton Hamilton Preble	sand & gravel sand & gravel sand & gravel sand & gravel			Br-S Hmn-S Hmn-SO Pre-7	IM-1053 IM-746 IM-720 IM-306

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Sphagnum Moss Peat Farm 9904 State Route 736 Plain City, OH 43064 937-645-5459 Mike Poling, owner	Sphagnum Moss Peat Farm	Champaign	peat			Cpn-9	
City of Springfield 201 Eagle City Rd. Springfield, OH 45502 937-525-5880 Albert E. Dewell, water plant supt.	City of Springfield	Clark	sand & gravel			Ck-7	IM-449
Spring Industries, Inc. 56290 Dilles Bottom Rd. Shadyside, OH 43947 740-671-9400 Glenn Straub, pres.	Bolivar Pit Midvale Pit	Stark Tuscarawas	sand & gravel sand & gravel			Sk-SI Ts-1771	IM-588 IM-77
Spring Run Gravel P.O. Box 466 Killbuck, OH 44637 330-276-2444 Jeff Chaney, owner	Spring Run Gravel	Holmes	sand & gravel	980	980	Hs-96	IM-997
Stansley Mineral Resources 3810 Herr Rd. Sylvania, OH 43560 419-843-2813 Jeffrey Stansley, pres.	Stansley Mineral Resources, Genoa Plant	Ottawa	limestone	800,000	800,000	Oa-1	IM-292
State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 330-426-9611 James Muse, v. pres.	State Line Resources, Inc.	Columbiana	clay	60,000	60,000	Ca-505	IM-13, IM-936
Stewart & Reichman, Inc. 6801 State Route 416 SE Gnadenhutten, OH 44629 740-922-0050 Timothy G. Brown, pres.	Stewart & Reichman, Inc.	Tuscarawas	sand & gravel	52,000	52,000	Ts-111	IM-55, IM-2065
Stocker Sand & Gravel Co. P.O. Box 176 Gnadenhutten, OH 44629 740-254-4635 William E. Stocker, pres.	Stocker Sand & Gravel Co. - Gnaden Stocker Sand & Gravel Co. Stocker Sand & Gravel Co.	Tuscarawas Tuscarawas Tuscarawas	sand & gravel sand & gravel sand & gravel	506,266 594,137	506,266 594,137	Ts-69 Ts-125 Ts-ST	IM-51 IM-50 IM-2125
Stone Creek Brick Co. P.O. Box 116 Stone Creek, OH 43840 330-339-5511 A. C. Marsh, Jr., pres.	Stone Creek Brick Clay Mine Stone Creek Brick Shale Pit	Tuscarawas Tuscarawas	clay shale	29,605 3,940	29,605 3,940	Ts-1557 Ts-1558	IM-52 IM-52
Stoneco/Shelly Materials, Inc. 1700 Fostoria Ave. Suite 200 P.O. Box 3100 Findlay, OH 45840 419-422-6315 Dan Montgomery, pres.	Maumee Quarry Celina Quarry Rocky Ridge Quarry Auglaize Quarry Scott Quarry Montpelier North Pit Lime City Quarry Portage Quarry	Lucas Mercer Ottawa Paulding Van Wert Williams Wood Wood	limestone limestone limestone limestone limestone sand & gravel limestone limestone	1,329,740 830,589 53,243 854,970 352,507 870,721 425,252	1,318,970 951,690 15,646 817,610 332,753 996,115 427,281	Ls-2 Mr-1 Oa-14 Pg-2 Vt-3 Ws-9 Wd-6 Wd-11	IM-503 IM-592 IM-320 IM-481 IM-495 IM-498 IM-480 IM-475
Ken Strahler Masonry, Inc. 116 Alta St. Marietta, OH 45750 740-373-4529 Kenneth E. Strahler, pres.	Ken Strahler Masonry, Inc.	Washington	clay			Wn-St	IM-2224
Suburban South Recycling & Disposal Facility 3415 Twp. Rd. 447 Glenford, OH 43739 740-787-2327 Frank Fello, pres.	Suburban South Recycling & Disposal Facility	Perry	clay			Py-SU	IM-1340

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Suever Stone Co., Inc. Bloomlock Rd. P.O. Box 10 Delphos, OH 45833 419-692-9796 Neal Lause, pres.	Suever Stone Co., Inc. Suever Stone Co., Inc.	Allen Van Wert	limestone limestone	100,000 149,000	100,000 149,000	An-4 Vt-1	IM-491 IM-500
Summitville Tiles, Inc. P.O. Box 173 Summitville, OH 43962 330-223-1511 David Johnson, pres.	Summitcrest Inc. Summitville Tiles, Inc.	Columbiana Columbiana	shale shale	23,473	23,473	Ca-SU Ca-205	IM-2186 IM-74
Sunshine Sand Co. 12400 Broadway Ave. Cleveland, OH 44125 216-587-2700 Dorothy M. Strohm, pres.	Sunshine Sand Co.	Portage	sand & gravel	1,463	1,463	Pe-SSC	IM-318
Joseph N. Sypniewski 3780 Mechanicsville Rd. Rock Creek, OH 44084 440-563-5644 Joe N. Sypniewski, pres.	Sypniewski	Asatabula	sand & gravel clay			Asa-SY	IM-2222
Tackett Builders 906 Charleston Pike Chillicothe, OH 45601-9312 740-772-5431 Carmel G. Tackett, owner	Tackett's Pit	Ross	sand & gravel clay	68	68	Rs-T	IM-1189
Taylorville Rd. Landfill 4252 Taylorville Rd. Huber Heights, OH 45424 937-233-7500 James T. McDonald, pres.	Taylorville Rd. Landfill	Montgomery	sand & gravel			My-55	IM-571
Teague Gravel Co., Inc. P.O. Box 380 Newbury, OH 44065 440-564-5671 Donald R. Teague, pres.	Teague Gravel Co., Inc.	Geauga	sand & gravel			Gea-35	IM-321
Thiel Construction Co. P.O. Box 225 Blakeslee, OH 43505 419-272-2712 Lee R. Thiel, pres.	Thiel Construction Co.	Williams	sand & gravel	3,694	3,694	Ws-21	IM-1225
Thomas Sand & Gravel P.O. Box 171 Gratis, OH 45330 937-787-4677 Howard Thomas, owner	Thomas Sand & Gravel	Preble	sand & gravel	400	504	Pre-T	IM-2036
Thompson Bros. Mining Co. 3379 E. Garfield Rd. P.O. Box 57 New Springfield, OH 44443 216-549-3979 J. E. Thompson, owner	North Lima	Mahoning	clay	13,822	13,822	Mg-588	D-0374
Thompson Mining Co. 12321 Ideal Rd. Byesville, OH 43723 740-685-6726 George V. Thompson, pres.	Pleasant Valley Limestone	Muskingum	limestone clay	187,733 6,128	187,733 6,128	Mum-907	IM-1200
Don Thompson Excavating, Inc. 1471 W. Paintersville Rd. Spring Valley, OH 45370 937-862-7911 Todd Thompson, pres.	Don Thompson Excavating, Inc.	Greene	sand & gravel			Ge-46	IM-1149

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Tipp Stone Co., Inc. P.O. Box 367 Troy, OH 45373 937-890-4051 Michael Eidemiller, v. pres.	Tipp Stone Co., Inc. Tipp Stone Co., Inc.	Miami Montgomery	sand & gravel sand & gravel	37,334 70,329	37,334 70,329	Mi-12 My-61	IM-467 IM-468
Tri-State Asphalt Products 56290 Dilles Bottom Rd. Shadyside, OH 43947 740-671-9400 Glenn Straub, pres.	Tri-State Asphalt Products	Belmont	sand & gravel			Bt-74	IM-288
Trout Sand & Gravel Co. 347 Gravel Bank Rd. Marietta, OH 45750 740-373-7471 Henry C. Trout, Jr., owner	Trout Sand & Gravel Co.	Washington	sand & gravel	8,703	17,492	Wn-510	IM-25
Tuffco Sand & Gravel, Inc. P.O. Box 399 Marysville, OH 43040 614-873-3977 Charles Lewis, pres.	Tuffco Sand & Gravel, Inc.	Madison	sand & gravel clay	210,496	226,320	Mdn-11	IM-1063
Twinsburg Development Corp. P.O. Box 248 Grand River, OH 44045 440-357-5562 Harold T. Larned, pres.	Twinsburg Development Corp.	Portage	sand & gravel	198,000	198,000	Pe-84	IM-868
U.S. Aggregates, Inc. 5400 W. 86th St. P.O. Box 68123 Indianapolis, IN 46268 317-872-6010 James Fehsenfeld, pres.	U.S. Aggregates/Richmond Plant	Preble	sand & gravel	650		Pre-AAC	IM-779
Lower Springs Quarry P.O. Box 146 Dundee, OH 44624 330852-2012 Matthew Maendel, pres.	Dundee Mine	Tuscarawas	sand & gravel sandstone	5,318	9,500	Ts-1660	IM-68
United Aggregates, Inc. P.O. Box 750 Mt. Vernon, OH 43050 740-397-0000 John D. Ellis, pres.	United Aggregates, Inc.	Knox	sand & gravel	198,600	80,150	Kx-3	IM-300
Valley Brook Sand & Gravel, Inc. 3676 Beck Rd. Mantua, OH 44255 330-274-0547 Frank Ruehr, pres.	Ruehr	Portage	sand & gravel			Pe-V	IM-2061
Valley Clay Mining Co. 7052 Rosehill Rd. Roseville, OH 43777 740-697-0620 Stephen R. McCann, pres.	Spring Pit Tague Pit	Muskingum Perry	clay clay	10,300	10,300	Mum-904 Py-V	IM-1127 IM-1245
Valley Materials Co. 4947 U.S. Route 23 S P.O. Box 400 Piketon, OH 45661 740-289-4551 Ralph McFann, pres.	Valley Materials #1 Valley Materials #2	Pike Pike	sand & gravel sand & gravel	6,180 43,188	6,180 43,188	Pke-26 Pke-V	IM-142 IM-1330
Ralph C. Wagner & Sons 7317 Brinker St. Navarre, OH 44662 330-495-7414 Michael Wagner, owner	Wagner & Sons	Stark	sand & gravel	400	400	Sk-W	IM-867

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Walhonding Sand & Gravel 27679 State Route 206 Walhonding, OH 43843 740-824-5251 Tim Helmick, pres.	Walhonding Valley Sand & Gravel	Coshocton	sand & gravel shale	44,852 1,611	44,852 1,611	Cn-WL	IM-2127
Waller Bros. Stone Co. P.O. Box 157 McDermott, OH 45652 740-259-2356 F. L. Waller, pres.	Crabtree Quarry Inskeep Quarry Miller Quarry New Inskeep Quarry	Scioto Scioto Scioto Scioto	sandstone sandstone sandstone sandstone	10,313 10,652	10,313 10,652	So-76 So-48 So-82 So-W	IM-141 IM-140 IM-158 IM-2111
Carl Walter 11098 Bower Rd. Minerva, OH 44657 330-894-2315 Carl Walter, owner	Carl Walter	Columbiana	sand & gravel	970	970	Ca-W	IM-1279
Ward Materials, Inc. 385 Oak St. Leipsic, OH 45856 419-943-2450 Arnold W. Rosebrock, pres.	Ward Materials, Inc.	Allen	sand & gravel	71,479	72,029	An-W	IM-2069
Don Wartko Construction, Inc. 975 Tallmadge Rd. Kent, OH 44240 330-673-5252 Thomas Wartko, pres.	Don Wartko Construction, Inc.	Portage	sand & gravel			Pe-92	IM-522
Waste Management/Chambers Development of Ohio, Inc. 7916 Chapel St. SE Waynesburg, OH 44688 330-866-3265 Jerry R. Ross, pres.	Harrison Sanitary Landfill	Harrison	clay	33,246	33,246	Hn-CD	D-1105
Waterland Trucking Service, Inc. P.O. Box 930335 Wixom, MI 48393-0335 248-349-1582 Richard D. Massuch, pres.	Adams County Quarry	Adams	limestone			Ads-H	IM-805
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Waterloo Coal Stone Plant - Zoar Mill	Jackson	limestone	386,790	386,790	Jkn-367	D-594, D-968, D-1083
Watson Gravel, Inc. 2728 Hamilton-Cleves Rd. P.O. Box 277 Ross, OH 45061 513-863-0070 Ronald E. Watson, pres.	Ongais Plant #1 River Pit Watson Pit Dry Fork Harrison #2 Harrison Pit Minges-Getz	Butler Butler Butler Hamilton Hamilton Hamilton Hamilton	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	37,558 1,219,351 10,641 1,021,715 300 33,254	37,558 1,219,351 10,641 1,021,715 300 33,254	Br-O Br-57 Br-47 Hmn-68 Hmn-ARH Hmn-60 Hmn-64	IM-2143 IM-111 IM-747 IM-1273 IM-761 IM-137
Weber Sand & Gravel, Inc. 14586 U.S. Route 127 EW Bryan, OH 43506 419-636-7920 Thomas G. Weber, pres.	Weber Sand & Gravel, Inc.	Williams	sand & gravel	251,827	251,827	Ws-11	IM-509, IM-661
Joann O. Weddle 2419 U.S. Route 68 N Yellow Springs, OH 45387 937-374-1290 Joann Weddle, owner	Weddle Gravel	Greene	sand & gravel	62,000	62,000	Ge-W	IM-645
Weidle Sand & Gravel, Inc. P.O. Box 247 Germantown, OH 45327 937-855-2227 D. S. Weidle, pres.	Weidle	Montgomery	sand & gravel			My-W1	IM-2203

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
Welch Sand & Gravel, Inc. 10217 Columbia St. Harrison, OH 45030-9751 513-353-3220 Charles H. Welch, pres.	Schlichter Pit East Miami Pit Fernald Pit	Butler Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	283,338 538,465 626,192	283,338 538,465 626,192	Br-38 Hmn-48 Hmn-42	IM-218 IM-220 IM-823
Westfall Aggregate & Materials, Inc. 6790 Brooks-Miller Rd. Circleville, OH 43113 740-420-9090 Kevin R. Steward, pres.	Hill Road Pit	Pickaway	sand & gravel			Pky-WA	IM-2217
White Rock Quarry LP Sub. Stoneco Inc. P.O. Box 3100 Findlay, OH 45840 419-422-8854 Dan Montgomery, pres.	White Rock Quarry	Ottawa	limestone	1,188,503	1,323,342	Oa-6	IM-296
Mark Williams Blacktop Co., Inc. Route 4 Box 34 Marietta, OH 45750 740-373-2457 Mark Williams, pres.	Williams Pit #2	Washington	sand & gravel			Wn-1007	IM-1042
Willowbrook Sand & Gravel 39130 Brookfield St. P.O. Box 304 Lisbon, OH 44432 330-424-0742 Ray Perrino, owner	Willowbrook Sand & Gravel	Columbiana	sand & gravel	49,300	49,300	Ca-993	IM-1180
John Wilms Trucking & Landscaping Materials 3034 Lisbon Rd. Leetonia, OH 44431 330-427-6472 John Wilms, pres.	Leetonia	Columbiana	sand & gravel			Ca-982	IM-1108
Wise Gravel 8535 W. Klinger Rd. Covington, OH 45318 937-473-3246 John A. Wise, owner	Wise Gravel	Miami	sand & gravel			Mi-9	IM-408
Wooster Aggregates, LLC 3001 Prairie Lane Rd. Wooster, OH 44691 330-262-3322 Ken Holland, pres.	Wooster Aggregates, LLC	Wayne	sand & gravel shale	155,000 3,000	155,000 3,000	We-11 ⁶	IM-547
Wylie and Sons Landscaping 1616 County Rd. B P.O. Box 29 Swanton, OH 43558 419-875-6760 Thomas Wylie, owner	Wylie and Sons Landscaping	Fulton	sand & gravel	5,750	7,000	Ftn-W2	IM-2168
Wysong Gravel Co. P.O. Box 5 West Alexandria, OH 45381 937-962-2559 John & Carroll Wysong, owners	Wysong Gravel Co. Wysong Gravel Co.	Montgomery Preble	sand & gravel sand & gravel	115,236 188,153	115,236 188,153	My-Wy Pre-4	IM-2194 IM-477
Wysong Stone Co. 5897 State Route 503 N P.O. Box 159 Lewisburg, OH 45338 937-962-2559 Carroll E. Wysong, v. pres.	Wysong Stone Co.	Preble	limestone	148,463	170,800	Pre-5	IM-447

⁶This mine was operated January through May 2004 by Prairie Lane Sand & Gravel Co. and June through December 2004 by Wooster Aggregates LLC.

2004 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	2004 sales (tons)	2004 production (tons)	State mine number	Mining and reclamation permit number
X L Sand & Gravel P.O. Box 255 Negley, OH 44441 330-426-9876 Robert A. Lansberry, pres.	X L Sand & Gravel X L Sand & Gravel	Columbiana Columbiana	sand & gravel sand & gravel	72,324	72,324	Ca-881 Ca-XL	IM-611 IM-1347
Xenia Sand, Gravel, & Asphalt Co. 588 Dayton-Xenia Rd. Xenia, OH 45385 937-372-2978 David A. Thompson, owner	Xenia Sand & Gravel LTD.	Greene	sand & gravel	15,138	15,138	Ge-10	IM-518
Joe Yochman Excavating, Inc. 610 South Newton Falls Rd. Diamond, OH 44412 330-538-0014 Joe Yochman, v. pres.	Yochman	Mahoning	sand & gravel	200	200	Mg-Y	IM-2192
Young's Sand & Gravel Co. P.O. Box 117 Loudonville, OH 44842 419-994-3040 Myron Oswalt, owner	Sprang & Youngs Ayers Spreng	Ashland Ashland Ashland	sand & gravel sand & gravel sand & gravel	34,841 69,682 243,893	34,841 69,682 243,893	Ald-7 Ald-15 Ald-Y	IM-392 IM-944 IM-1216
Zemba Farms, Ltd. 3401 East Pike Zanesville, OH 43701 740-452-1880 Scott Zemba, pres.	Zemba Brothers, Inc.	Muskingum	sand & gravel	19,900	19,900	Mum-Z	IM-2173
Zollinger Sand & Gravel Co. 11899 Easton Rd. Rittman, OH 44270 330-855-2464 Carl Zollinger, pres.	Zollinger Sand & Gravel Co.	Wayne	sand & gravel clay	44,578	44,578	We-15	IM-398

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2004 LIMESTONE/DOLOMITE COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Ayers Limestone Quarry, Inc.	1	178,528	178,528	Martin Marietta Aggregates	5	3,010,008	2,806,444
Barrett Paving Materials, Inc.	3	636,326	707,397	Martin Marietta Magnesia	1	2,788,573	2,782,573
Belden Brick Co.	3	15,962	16,462	Specialties, Inc.			
Bluffton Stone Co.	1	415,964	463,553	Miami River Stone Co.	2	543,555	519,937
Carmeuse Ohio Inc.	1	2,038,551	2,038,551	The Melvin Stone Co., LLC	4	2,918,446	2,845,052
				Millersville Lime Inc.	1	437,851	447,851
CEMEX, Inc.	3	816,410	816,410				
Christman Quarries	1	70,693	70,693	National Lime & Stone Co.	9	14,262,000	14,228,000
Con-Ag, Inc.	1	322,841	345,971	North Shore Stone Quarries, Inc.	1	3,446	3,446
Custar Stone Co., Inc.	1	682,331	688,920	Ohio Asphaltic Limestone Corp.	1	461,837	461,837
Daron Coal Company, Inc.	1	927,865	927,865	Olen Corp.	1	765,000	765,000
				Oxford Mining Co., Inc.	1	115,308	115,308
Demmy Construction, Inc.	1	6,693	6,693				
Diamond Stone Quarries	1	300,000	300,000	Piqua Materials, Inc.	1	704,316	750,052
Duff Quarry, Inc.	2	567,764	567,764	C. F. Poeppelman, Inc.	1	402,010	402,010
East Fairfield Coal Co.	2	1,245,336	93,059	Precision Aggregates III, LLC	2	327,400	327,400
ENZ, Inc.	1	174,477	174,477	Putnam Stone Co.	1	258,454	220,870
				Quality Stone Co.	1	530,256	530,256
Erie Blacktop, Inc.	1	492,497	492,497				
ESSROC Cement Corp.	3	1,028,284	1,028,284	Ridge Township Quarry	1	136,044	136,044
Foureman's Sand & Gravel, Inc.	1	3	3	Shamrock Materials	1	400,000	400,000
Graymont Dolime (OH) Inc.	1	982,850	982,850	Sharon Stone Co.	1	111,068	111,068
Hanson Aggregates Midwest, Inc.	10	12,865,432	12,938,036	Shelly Materials, Inc.	9	13,540,535	13,649,535
				Sidco Development, Inc.	1	3,804	3,804
Honey Creek Stone Co.	1	281,650	246,326				
K.C.C.I.	1	36,038	35,976	Sidwell Materials, Inc.	2	422,130	422,130
Kimble Clay & Limestone Co.	1	100,000	100,000	Sidwell Materials, Inc.	2	750,546	750,546
King Limestone, Inc.	2	246,482	246,482	Stansley Mineral Resources	1	800,000	800,000
King Quarries, Inc.	1	71,692	71,692	Stoneco/Shelly Materials, Inc.	7	4,717,022	4,860,065
				Suever Stone Co., Inc.	2	249,000	249,000
Lafarge Corp.	1	662,893	662,893				
Lafarge North America	3	5,832,630	6,173,562	Thompson Mining Co.	1	187,733	187,733
Latham Limestone, Inc.	1	279,600	279,600	Waterloo Coal Co., Inc.	1	386,790	386,790
MacRitchie Materials, Inc.	1	292,253	319,938	White Rock Quarry LP	1	1,188,503	1,323,342
Marshall Quarry, Inc.	1	972	972	Wysong Stone Co.	1	148,463	170,800
				TOTAL: 59 companies	114	82,143,115	81,632,347

2004 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Cn-A).

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Adams	Hanson Aggregates Midwest, Inc.	Plum Run Quarry	Meigs	Peebles, Greenfield, & Tymochtee Dolomites (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Ads-1
Allen	Bluffton Stone Co.	Bluffton Stone Co.	Richland	Tymochtee Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	An-1
	National Lime & Stone Co.	Lima Plant	Bath	Greenfield Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, asphaltic concrete	An-3
	Suever Stone Co., Inc.	Suever Stone Co., Inc.	Spencer	Tymochtee Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphaltic concrete, commercial building	An-4
Athens	Diamond Stone Quarries	Diamond Stone	Lee	Brush Creek (Pennsylvanian)	crushed stone—unspecified	As-533
Auglaize	Con-Ag, Inc.	Con-Ag, Inc.	Noble	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete	Ae-31
	National Lime & Stone Co.	Buckland Plant	Moulton	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, aglime	Ae-10
Belmont	Ayers Limestone Quarry, Inc.	Ayers Limestone Quarry, Inc.	Pease	Permian	crushed stone—riprap, road construction/resurfacing	Bt-716
	Sidwell Materials, Inc.	Bellaire Stone	Pultney	Fishpot limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Bt-1190
		Uniontown Stone	Wheeling	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Bt-N
Brown	Hanson Aggregates Midwest,	Eagle Crushed Stone	Eagle	Brassfield Limestone (Silurian)	crushed stone—unspecified	Bn-EC
Clark	Demmy Construction, Inc.	Demmy Constuction, Inc.	Mad River	Cedarville Dolomite (Silurian)	crushed stone—road construction/resurfacing	Ck-501
Clinton	Martin Marietta Aggregates The Melvin Stone Co., LLC	Clinton Limestone Melvin Stone Co. LLC	Wilson Richland	Cedarville Dolomite (Silurian) Cedarville Dolomite (Silurian)	crushed stone—unspecified crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	Cln-W Cln-1
Crawford	National Lime & Stone Co.	Bucyrus Plant	Holmes	Columbus & Delaware Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, flux	Cd-1
Darke	Foureman's Sand & Gravel, Inc. Shamrock Materials	Foureman's Sand & Gravel, Inc. Fort Jefferson Stone	Greenville Butler	Cedarville Dolomite (Silurian)	crushed stone—riprap, dimension stone crushed stone—asphaltic concrete, unspecified	Dke-4 Dke-1
Delaware	National Lime & Stone Co.	Delaware Limestone	Scioto	Columbus Limestone (Devonian)	crushed stone—road construction/resurfacing	Del-3

Erie	Erie Blacktop, Inc.	Delaware Plant	Scioto	Columbus Limestone (Devonian) Salina Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, aglime	Del-5
	Hanson Aggregates Midwest, Inc.	Erie Blacktop Quarry	Margaretta		crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete	Ee-27
		Sandusky Quarry	Groton	Columbus & Delaware Limestones (Devonian) Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Ee-11
		Wagner Quarry	Perkins	Upper Columbus & Delaware Limestones (Devonian)	crushed stone—road construction/resurfacing	Ee-1
	Lafarge North America	Kellstone, Inc.	Kelley's Island	Columbus Limestone (Devonian) Detroit River Group (Devonian)	crushed stone—commercial building	Ee-K
Fayette	Martin Marietta Aggregates	Blue Rock Limestone	Perry	Tymochtee Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphaltic concrete, extenders/fillers	Fe-2
Franklin	Shelly Materials, Inc.	Columbus Limestone #331	Franklin, Jackson, Marion	Columbus Limestone (Devonian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Fn-53
		Marble Cliff Plant #0332	Norwich	Columbus Limestone (Devonian) Salina Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Fn-2
Greene	CEMEX, Inc.	Batdorf, Feirstine, Schneider	Bath, Beaver Creek	Upper Brassfield Limestone (Silurian)	crushed stone—portland cement	Ge-9
		Miller	Bath	Brassfield Limestone (Silurian)	crushed stone—commercial building, portland cement	Ge-8
	Martin Marietta Aggregates	Cedarville	Cedarville	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, commercial building, unspecified	Ge-17
	The Melvin Stone Co., LLC	Bowersville	Jefferson	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete, commercial building	Ge-M
Guernsey	King Limestone, Inc.	King Limestone, Inc.	Spencer	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Gy-309
Hancock	National Lime & Stone Co.	Findlay Plant	Liberty	Salina Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast	Hk-7
Hardin	Duff Quarry, Inc.	Duff Quarry, Inc.	Jackson	Tymochtee Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Hdn-S
	Shelly Materials, Inc.	Hardin Quarry	Pleasant	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Hdn-2
Harrison	Daron Coal Company, Inc.	Standingstone Mine	Cadiz	Redstone limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing, commercial building	Hn-D

2004 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Highland	Hanson Aggregates Midwest, Inc.	Highland Stone	Hamer	Brassfield & Dayton Limestones (Silurian)	crushed stone—unspecified	Hd-2
	Marshall Quarry, Inc.	Marshall Quarry, Inc.	Marshall	Silurian	crushed stone—unspecified	Hd-4
	Martin Marietta Aggregates	Lynchburg Quarry	Union	Brassfield Limestone (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete, extenders/fillers, unspecified	Hd-M
	Ohio Asphaltic Limestone Corp.	Ohio Asphaltic Limestone	Union		crushed stone—riprap, road construction/resurfacing, asphaltic concrete, aglime	Hd-3
Jackson	Waterloo Coal Co., Inc.	Waterloo Coal Stone Plant	Madison, Zoar Mill	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Jkn-367
Jefferson	K.C.C.I.	Apex	Springfield	Pittsburgh limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing, railroad ballast, commercial building, unspecified	Jfn-K
Logan	Duff Quarry, Inc.	Duff Quarry, Inc.	Richland	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Lgn-15
Lucas	Shelly Materials, Inc.	Belle Center Plant #8	McArthur, Richland	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Lgn-2
	ESSROC Cement Corp.	Sylvania Quarry	Sylvania	Tymochtee Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	LS-12
	Hanson Aggregates Midwest, Inc.	Sylvania	Sylvania	Detroit River Group & Dundee Limestone (Devonian)	crushed stone—unspecified, aglime	LS-3
	Stoneco/Shelly Materials, Inc.	Waterville	Waterville	Detroit River & Upper Dundee Limestones (Devonian)	crushed stone—unspecified	LS-1
Mahoning		Maumee Quarry	Waynesfield	Tymochtee Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	LS-2
	East Fairfield Coal Co.	Meandering Creek Farms	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Mg-EF
	ESSROC Cement Corp.	Withers-Petersburg	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Mg-631
		Bessemer Quarry	Poland	Vanport limestone (Pennsylvanian)	crushed stone—portland cement	Mg-608
Marion		Carbon Quarry	Poland, Springfield	Vanport limestone (Pennsylvanian)	crushed stone—portland cement	Mg-EM
	Honey Creek Stone Co.	Honey Creek Stone Co.	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Mg-54
	Lafarge North America	Petersburg	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, unspecified	Mg-L
	National Lime & Stone Co.	Marion Plant	Grand Prairie, Marion	Columbus & Delaware Limestones (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, aglime	Mn-3

	Shelly Materials, Inc.	Tri-County Limestone Co.	Grand	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Mn-1
Mercer	Stoneco/Shelly Materials, Inc.	Celina Quarry	Jefferson	Salina Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	Mr-1
Miami	Barrett Paving Materials, Inc.	Barrett Paving Materials Inc. #231	Union	Brassfield Limestone (Silurian)	crushed stone—road construction/resurfacing, dimension stone	Mi-BPM
	C. F. Poeppelman, Inc.	C. F. Poeppelman, Inc.	Newberry	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, aglime	Mi-10
	Piqua Materials, Inc.	Piqua Minerals Division	Springcreek, Staunton	Brassfield Limestone, Dayton & Laurel Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, flux	Mi-1
Monroe	Christman Quarries	Christman Quarry	Franklin, Seneca		crushed stone—unspecified	Me-C
Montgomery	CEMEX, Inc.	G-Tract	Wayne	Upper Brassfield Limestone (Silurian)	crushed stone—road construction/resurfacing	My-58
	Martin Marietta Aggregates	Phillipsburg	Clay	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete, commercial building, extenders/fillers, unspecified	My-1
Muskingum	King Limestone, Inc.	King Limestone, Inc.	Rich Hill	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Gy-309 ¹
	Shelly Materials, Inc.	East Fultonham	Newton	Maxville Limestone (Mississippian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Mum-106
	Sidwell Materials, Inc.	Dupler/Ford	Newton	Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing	Mum-SB
	Thompson Mining Co.	White Cottage	Newton	Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing	Mum-104
		Pleasant Valley Limestone	Hopewell	Maxville Limestone (Mississippian)	crushed stone—riprap, road construction/resurfacing, extenders/fillers	Mum-907
Noble	King Quarries, Inc.	King Quarries, Inc.	Olive	Fishpot limestone (Pennsylvanian)	crushed stone—riprap	Ne-K1
	Sharon Stone Co.	Sharon Stone Co.	Noble, Sharon		crushed stone—riprap, road construction/resurfacing	Ne-S
Ottawa	Graymont Dolime (OH) Inc.	Graymont Dolime (OH) Inc.	Clay	Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing	Oa-1 ²
	Lafarge North America	Marblehead	Danbury	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, flux, asphaltic concrete	Oa-7
	Stansley Mineral Resources	Stansley Mineral Resources, Genoa Plant	Clay	Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Oa-1 ²
	Stoneco/Shelly Materials, Inc.	Rocky Ridge Quarry	Benton	Lockport Dolomite (Silurian)	crushed stone—unspecified	Oa-14
	White Rock Quarry LP	White Rock Quarry	Allen		crushed stone—riprap, road construction/resurfacing, asphaltic concrete, extenders/fillers, unspecified, aglime	Oa-6

¹See also Guernsey County.²Graymont and Stansley operate from same mine.

2004 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Paulding	Hanson Aggregates Midwest, Inc. Lafarge Corp. Stoneco/Shelly Materials, Inc.	Paulding Paulding Quarry Auglaize Quarry	Crane Crane Auglaize	Tenmile Creek Dolomite (Devonian) Dundee Limestone (Devonian) Detroit River Group & Dundee Limestones (Devonian)	crushed stone—riprap, road construction/resurfacing crushed stone—portland cement crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	Pg-7 Pg-1 Pg-2
Pickaway	The Melvin Stone Co., LLC	Williamsport	Perry	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast	Pky-4
Pike	Latham Limestone, Inc.	Latham Limestone	Miffin	Greenfield Dolomite (Silurian)	crushed stone—riprap	Pke-13
Preble	Wysong Stone Co.	Wysong Stone Co.	Twin	Brassfield Limestone (Silurian)	crushed stone—riprap, road construction/resurfacing, dimension stone	Pre-5
Putnam	National Lime & Stone Co.	Rimer Plant	Sugar Creek	Greenfield Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete	Pm-N
	Putnam Stone Co.	Putnam Stone Co.	Pleasant, Riley	Greenfield Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing	Pm-2
Ross	The Melvin Stone Co., LLC	Plano Road	Concord	Salina Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, commercial building	Rs-MC1
Sandusky	Martin Marietta Magnesia Specialties, Inc. Millersville Lime Inc. Precision Aggregates III, LLC	Woodville Quarry Millersville Plant Precision Aggregates III, LLC	Woodville Jackson Sandusky	Lockport Dolomite (Silurian) Lockport Dolomite (Silurian) Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing crushed stone—aglime crushed stone—unspecified	Sy-1 Sy-4 Sy-5
Seneca	Carneuse Ohio Inc. Hanson Aggregates Midwest, Inc.	Maple Grove Bloomville	Liberty Bloom	Lockport Dolomite (Silurian) Columbus & Delaware Limestones Detroit River Group (Devonian) Columbus & Delaware Limestones	crushed stone—road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building crushed stone—road construction/resurfacing, aglime	Sa-2 Sa-3
	North Shore Stone Quarries, Inc.	Flat Rock North Shore Stone Quarries, Inc.	Thompson Thompson	Detroit River Group (Devonian) Greenfield Dolomite (Silurian)	crushed stone—unspecified, aglime	Sa-1
					crushed stone—riprap, dimension stone	Sa-8
Shelby	Barrett Paving Materials, Inc. Miami River Stone Co.	River Limestone Quarry/ Spring Creek Corp. Miami River Stone Co.	Clinton Orange	Lockport Dolomite (Silurian) Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building crushed stone—riprap, road construction/resurfacing, dimension stone	Shy-15 Shy-17

Stark	ENZ, Inc.	Sickafoose Pit	Pike, Sandy	Putnam Hill limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Sk-208
	Oxford Mining Co., Inc.	Barr Farm	Bethlehem	Putnam Hill limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Sk-235
Tuscarawas	Belden Brick Co.	Moomaw Pit	Sugar Creek	Vanport limestone (Pennsylvanian)	crushed stone—riprap	Ts-1517
		Shanesville Pit	Sugar Creek	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Ts-1939
		Wallick Pit	Franklin, Wayne	Pennsylvanian	crushed stone—riprap	Ts-1841
	Kimble Clay & Limestone Co. Sidco Development, Inc.	Kimble Clay & Limestone Co. Midvale Sand & Gravel	Dover Goshen	Pennsylvanian	crushed stone—unspecified	Ts-1818
Union	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #0310	Mill Creek	Pennsylvanian	crushed stone—asphaltic concrete	Ts-S2
		York Center #11	York	Columbus Limestone (Devonian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Un-2
				Salina Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Un-1
Van Wert	Ridge Township Quarry Stoneco/Shelly Materials, Inc.	Ridge Township Quarry Scott Quarry	Ridge Union	Tymochtee Dolomite (Silurian)	crushed stone—unspecified	Vt-7
	Suever Stone Co., Inc.	Suever Stone Co., Inc.	Washington	Tymochtee Dolomite (Silurian)	crushed stone—unspecified	Vt-3
Vinton	Quality Stone Co.	Route 32	Clinton	Vanport limestone (Pennsylvanian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Vt-1
					crushed stone—unspecified	Vn-193
Wood	Custar Stone Co., Inc.	Custar Stone Co., Inc.	Milton	Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, aglime	Wd-5
	MacRitchie Materials, Inc.	MacRitchie Materials, Inc.	Perry	Silurian Lockport & Salina Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, extenders/fillers, dimension stone	Wd-1
	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Portage	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Wd-14
	Stoneco/Shelly Materials, Inc.	Lime City Quarry Portage Quarry	Perrysburg Portage	Lockport Dolomite (Silurian) Greenfield & Lockport Dolomites (Silurian)	crushed stone—unspecified	Wd-6
					crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, aglime	Wd-11
Wyandot	National Lime & Stone Co.	Carey Plant	Crawford	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, flux	Wt-1
	Olen Corp.	Upper Sandusky	Pitt	Silurian	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Wt-3
	Shelly Materials, Inc.	Wyandot Dolomite	Crawford	Greenfield & Lockport Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, flux, asphaltic concrete, commercial building	Wt-8

2004 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Agg Rok Materials	1	466,967	469,911	Frye Sand & Gravel, Inc.	1	673	673
William Albert, Inc.	1	30,892	32,641	GANS Ltd.	1	9,895	2,658
Alden Excavating	1	10,113	10,113	Ganges Gravel Co.	1	57,881	58,928
Allgeier & Son, Inc.	3	265,000	265,000	John L. Garber Materials, Inc.	2	232,251	234,409
American Excavating, Inc.	1	22,397	16,450	Timothy P. Gleason	1	87,310	87,310
American Sand & Gravel, Inc.	1	1,056,958	1,056,958	Gibson Sand & Gravel Co.	1	32	32
Apache Aggregate & Paving Co.	2	104,973	85,711	Joyce A. Good	1	230	230
Ashcraft Sand & Gravel, Inc.	1	77,519	75,219	Grimes Excavating	1	149,155	149,155
Atlas Towing Co.	1	16,763	16,763	H. T. Griffin Excavating, Inc.	1	2,000	2,000
Baisden Sand & Gravel	1	124,143	175,000	Hanson Aggregates Midwest, Inc.	3	1,772,231	1,842,773
Baker Sand, Inc.	1	617,680	620,391	Harden Agricultural Lime & Reclam. Svs., Inc.	1	45,800	45,800
Ballentine Excavation Co.	1	24,686	24,686	Harrison Sand & Gravel Co.	1	18,933	133,350
Barrett Paving Materials, Inc.	8	2,035,360	2,144,263	Hartley Gravel	1	9,363	9,363
Bartley & Bolin Excavating	2	183,605	183,605	Harvest Sand & Gravel, Inc.	2	45,547	45,547
Beaver Excavating, Inc.	1	12,500	12,500	Haubeil & Sons Asphalt & Materials, Inc.	1	69,648	69,646
Beck Sand & Gravel, Inc.	1	253,577	253,577	Haueter Sand & Gravel, Inc.	1	150,488	150,488
Paul D. Beery Trucking Co.	1	375	375	Heiser Sand & Gravel Corp.	1	20,839	20,839
Black Top Contracting, Inc.	2	41,735	41,735	Hilltop Aggregate, Inc.	1	400,250	400,250
E. E. Blair Construction Co.	1	80,000	80,000	Hocking Valley Concrete, Inc.	1	76,790	76,790
Boyas Excavating, Inc.	1	11,256	11,256	Hocking Valley Mulch	1	902	902
Boyd Excavating	1	5,645	5,982	William A. Hoffman, Jr.	1	1,063	1,063
Gaston Bowling, Inc.	1	2,734	2,734	Holmes Supply Corp.	1	276,729	276,729
D. H. Bowman & Sons, Inc.	1	88,051	72,000	Honey Creek Valley Realty Ltd.	1	1,200	1,200
Briggs Sand & Gravel, Inc.	1	6,135	6,135	Terry A. Hoppes	1	2,200	2,200
Broshear Contractors, Inc.	1	104,305	104,305	L. A. Horn Excavating/Constr., Inc.	1	500	500
Oscar Brugmann Sand & Gravel, Inc.	1	526,816	538,000	Hugo Sand Co.	1	207,074	207,074
Burlington Sand & Gravel Co.	1	1,027	1,027	Hunter Land Development	1	600	600
C.I.R., Inc.	1	1,000	1,000	George J. Igel & Co., Inc.	1	384	2,784
Joe E. Carter	1	800	800	JBM Ltd.	1	79,224	79,224
Carter & Carter, Inc.	1	1,804	3,220	JP Sand & Gravel Co.	1	396,537	396,537
Cashen, Inc.	1	890	890	Jaclib Enterprises, Inc.	1	436	436
Central-Allied Enterprises, Inc.	5	1,466,971	1,466,971	JALIP, LTD.	1	7,714	7,714
Chesterville Sand & Gravel Co., Inc.	1	256,710	256,710	Janson & Sons Corp.	1	35,000	35,000
M. J. Coates Construction Co., Inc.	2	138,521	138,521	Jarrett Sand Co.	1	1,968	1,968
Cochran Transportation Services, Inc.	1	48,541	48,541	Jaymar, Inc.	1	644,195	644,195
Boone Coleman Construction, Inc.	1	120	120	Kinsman Materials, LTD.	1	85,010	85,010
Craigton Shale Co.	1	156,420	156,420	Kipp's Gravel Co., Inc.	1	14,360	14,360
Crosby Gravel, Inc.	1	327	327	Kirby's Sand & Gravel, Inc.	1	168,481	168,481
R. A. Cruise Sand & Gravel, Inc.	1	26,862	26,862	T & K Kuhnle Co.	1	56,000	56,000
D & K Materials, Inc.	1	34,781	34,781	L & I Natural Resources, Inc.	1	113,579	113,579
D.G.M., Inc.	2	116,062	116,062	L & M Mineral Co.	1	10,692	10,692
Darby Creek Excavating, Inc.	1	76,200	76,200	LUB Inc.	1	14,802	14,802
Demmy Construction, Inc.	1	50,864	50,864	Lafarge North America	1	846,595	900,431
Demmy Sand & Gravel	1	5,021	5,021	Lakeside Sand & Gravel Co.	1	469,758	469,758
Dingledine Basic Materials, Inc.	1	163,741	163,741	Lawson Limited Partnership	1	167,628	152,628
James E. Downard	1	5,174	5,174	Link Trucking Co., Inc.	1	34,472	34,472
Duff Quarry, Inc.	2	43,938	43,938	Little Miami Sand & Gravel	2	3,800	3,800
David E. Edgington	1	4,188	4,188	Loxley Aggregates, Inc.	1	4,345	4,345
Ervin Hill Enterprises, Inc.	1	102,257	102,257	Lucky Sand & Gravel Co.	1	57,101	40,001
Evans Gravel, Inc.	2	55,900	61,902	MAR-DEL Enterprises, Inc.	1	1,400	1,400
Feikert Sand & Gravel, Inc.	1	132,096	132,096	Martin Marietta Aggregates	13	8,325,605	8,574,592
Fenner Sand & Gravel, Inc.	1	104,000	104,000	R. J. Martin Service & Excavating	1	962	962
Fleming Construction Co., Inc.	2	80,775	80,775	Massillon Materials, Inc.	3	744,918	744,918
Foureman's Sand & Gravel, Inc.	1	107,339	107,339	Mathews Sand & Gravel	1	340	340
Lloyd B. Fry	1	2,000	2,000	Mecco, Inc.	1	158,151	167,701

2004 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION (cont.)

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Mechanicsburg Sand & Gravel, Inc.	1	231,592	231,592	Mark E. Scott	1	15,000	15,000
Meigs County Commissioners	1	10,600	10,600	Seville Sand & Gravel, Inc.	1	252,210	252,210
The Melvin Stone Co., LLC	1	371,421	316,264	Shady Bend Sand & Gravel	1	103,326	103,326
Menuet Bros. Sand & Gravel, Inc.	1	253,058	256,000	Shamrock Materials, Inc.	1	406,786	406,786
Miami River Stone Co.	2	135,702	160,000	Sharon Stone Co.	1	196,079	196,079
Miami View Mining Co., Ltd.	1	645,686	645,686	Shelly Materials, Inc.	13	5,767,625	5,767,625
Miller Bros. Gravel, Inc.	1	313,818	333,588	Sidco Development, Inc.	1	220,613	220,613
Miller's Sand & Gravel, Inc.	1	12,236	12,236	R. W. Sidley, Inc.	2	140,000	106,000
Mills Rock, Sand, & Soil Inc.	1	100,463	100,463	Joe Simak & Sons Trucking, Inc.	3	117,316	117,316
Moore's Excavating Co.	3	6,542	6,411	Small's Sand & Gravel, Inc.	3	419,733	419,733
Moraine Materials Co., Inc.	2	294,200	294,200	George C. Smith/Mason's Sand & Gravel Co.	1	120,885	120,885
Morrow Gravel Co.	2	736,435	261,421	Sober Sand & Gravel Co.	1	206,544	206,544
Muskingum River Gravel Co.	4	637,645	629,218	Soehnl Bros. Sand & Gravel, Inc.	1	130,212	130,212
National Aggregates, Inc.	1	349,119	349,119	Solomon's Mines, Inc.	1	159,444	159,444
National Lime & Stone Co.	1	282,000	282,000	Solon Excavators Sand & Gravel, Inc.	1	212,743	212,743
Neer's Sand & Gravel	1	167,184	194,754	Soltis Sand & Gravel	1	1,588	10,740
Nelson Sand & Gravel, Inc.	1	62,900	62,900	South Central Sand & Gravel	1	17,299	17,299
Newbury Sand & Gravel, Inc.	1	109,101	109,101	Spring Run Gravel	1	980	980
Newton Asphalt Paving, Inc.	1	137,957	137,957	Stewart & Reichman, Inc.	1	52,000	52,000
J. E. Nicolozakes Co.	1	160,000	160,000	Stocker Sand & Gravel Co.	2	1,100,403	1,100,403
Andy Nixon Contractors, Inc.	1	159,696	159,696	Sunshine Sand Co.	1	1,463	1,463
Northwest Ohio Property Developments, Ltd.	1	44,408	44,408	Tackett Builders	1	68	68
Carl E. Oeder & Sons Sand & Gravel	1	391,552	391,552	Thiel Construction Co.	1	3,694	3,694
Olen Corp.	4	3,655,000	3,655,000	Thomas Sand & Gravel	1	400	504
Oneida Sand & Gravel, Inc.	1	40,000	40,000	Tipp Stone Co., Inc.	2	107,663	107,663
Osborne Materials Co.	1	68,252	68,252	Trout Sand & Gravel Co.	1	8,703	17,492
Oster Sand & Gravel, Inc.	2	960,497	960,497	Tuffco Sand & Gravel, Inc.	1	210,496	226,320
Ours Sand & Gravel	1	3,320	3,320	Twinsburg Development Corp.	1	198,000	198,000
Patrick Excavating, Inc.	1	121	121	U.S. Aggregates, Inc.	1	650	0
Phillips Sand & Gravel	1	483,865	483,865	United Aggregates, Inc.	1	198,600	80,150
Power Development Corp.	1	2,250	4,350	Valley Materials Co.	2	49,368	49,368
Prairie Lane Sand & Gravel Co.	1	62,196	64,152	Ralph C. Wagner & Sons	1	400	400
Precision Aggregate, Inc.	1	88,000	88,000	Walhonding Sand & Gravel	1	44,852	44,852
Precision Aggregates III, LLC	1	8,000	8,000	Carl Walter	1	970	970
Quality Ready Mix, Inc.	1	30,587	30,587	Ward Materials, Inc.	1	71,479	72,029
R. L., Ltd.	1	1,398	1,398	Watson Gravel, Inc.	6	2,322,819	2,322,819
Rainbow Sand & Gravel, Inc.	1	67,597	67,597	Weber Sand & Gravel, Inc.	1	251,827	251,827
Razor Lake S. & G., LLC	1	2,332	2,332	Welch Sand & Gravel, Inc.	3	1,447,995	1,447,995
Richards Service Garage	1	75	75	Joann O. Weddle	1	62,000	62,000
Gary Roberts Excavating	1	980	980	Willowbrook Sand & Gravel	1	49,300	49,300
Rockwell Sand & Gravel, Inc.	1	17,513	17,513	Wooster Aggregates, LLC	1	155,000	155,000
Dale B. Rohr	1	104,000	104,000	Wylie and Sons Landscaping	1	5,750	7,000
Roy M. Roush	1	3,266	3,266	Wysong Gravel Co.	2	303,389	303,389
Rupp Construction, Inc.	1	334,500	334,500	X L Sand & Gravel	1	72,324	72,324
S & S Aggregate, Inc.	4	1,154,058	1,212,927	Xenia Sand, Gravel, & Asphalt Co.	1	15,138	15,138
S.R.I., Inc.	1	244	244	Joe Yochman Excavating, Inc.	1	200	200
Sandman Trucking, Inc.	1	160,357	160,357	Young's Sand & Gravel Co.	3	348,416	348,416
Guy Schieve	1	7,098	7,098	Zemba Farms, Ltd.	1	19,900	19,900
Schloss Materials Co.	1	118,000	118,000	Zollinger Sand & Gravel Co.	1	44,578	44,578
Scioto Sand & Stone, Inc.	1	14,000	14,000				
				TOTAL: 209 companies	293	54,074,604	54,162,090

2004 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Ald-G).

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Allen	Ward Materials, Inc.	Ward Materials, Inc.	Monroe	sand—building, portland cement concrete, asphaltic concrete, fill, ponds gravel—building, road construction/resurfacing, filtration	An-W
Ashland	Bartley & Bolin Excavating	Bartley & Bolin, Inc. James Plant	Lake	sand—building gravel—building, bank run	Ald-B
	Honey Creek Valley Realty Ltd.	Honey Creek Valley Realty Ltd.	Green	sand—building gravel—building	Ald-H
	Joyce A. Good	Joyce A. Good	Jackson	sand—unspecified gravel—unspecified	Ald-G
	Young's Sand & Gravel Co.	Sprang & Young	Green	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Ald-7
		Ayers	Green	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Ald-15
Ashtabula		Sprang	Green	gravel—building, road construction/resurfacing, unspecified sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Ald-Y
	Frye Sand & Gravel, Inc. Joe Simak & Sons Trucking, Inc.	Frye Sand & Gravel, Inc. Amboy Pit	Denmark Kingsville	gravel—unspecified sand—building	Asa-10 Asa-ST
		Baird Pit	Conneaut	gravel—building sand—building	Asa-JS
		Dreslinski Pit	Kingsville	gravel—building sand—building	Asa-JS1
	Kinsman Materials, LTD.	Kinsman Materials, LTD.	Wayne	gravel—building, road construction/resurfacing, fill gravel—road construction/resurfacing	Asa-20
	Mathews Sand & Gravel	Mathews Sand & Gravel	N. Kingsville	sand—building gravel—building	Asa-M
	Nelson Sand & Gravel, Inc.	Nelson Sand & Gravel, Inc.		sand—building gravel—building	Asa-N1
	R. W. Sidley, Inc.	Sidley-Kingsville Plant	Kingsville	sand—building, portland cement concrete gravel—building	Asa-15
	Black Top Contracting, Inc.	Black Top #1	Rome	sand—unspecified gravel—unspecified	As-588
		York Twp. Trustees	York	sand—portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing	As-BT
Athens				road construction/resurfacing sand—building, road construction/resurfacing gravel—building	As-595
	Cochran Transportation Services, Inc.	Circle Hill Sand & Gravel, Inc.	Dover		
Auglaize	Quality Ready Mix, Inc.	Quality Pit	Pusheta	sand—building, portland cement concrete gravel—building, portland cement concrete	Ae-16

Butler	Broshear Contractors, Inc.	Green Heron	Ross	sand—pipe bedding	Br-B
	Dingledine Basic Materials, Inc.	Dingledine Basic Materials, Inc.	Milford	gravel—pipe bedding	Br-50
	Gaston Bowling, Inc.	Indian Creek Sand & Gravel	Ross	sand—unspecified	Br-40
	Martin Marietta Aggregates	Fairfield Sand & Gravel	Fairfield, Ross	gravel—unspecified	Br-35
				sand—building, road construction/resurfacing	
				sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, industrial sand concrete, road construction/resurfacing	
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Br-5
				sand—building	Br-29
				gravel—building	Br-15
				sand—building, portland cement concrete	
Carroll	Mecco, Inc.	Hamilton Gravel	Lemon	gravel—building, portland cement concrete, road construction/resurfacing	Br-52
	Shamrock Materials, Inc.	Ross Sand & Gravel	Madison	sand—unspecified	Br-57
	Watson Gravel, Inc.	River Pit	Fairfield	gravel—unspecified	Br-47
		Watson Pit	Fairfield	sand—building	
				gravel—building, road construction/resurfacing	
Champaign	Welch Sand & Gravel, Inc.	Schlichter Pit	Fairfield	sand—building, portland cement concrete, asphaltic concrete, fill	Br-38
				gravel—building, portland cement concrete, road construction/resurfacing	
	Oneida Sand & Gravel, Inc.	Oneida Sand & Gravel, Inc.	Brown	sand—building	Cl-204
	Power Development Corp.	Power Development/Robertson	Brown	gravel—building	Cl-PD
				sand—road construction/resurfacing	
Clark	Mechanicsburg Sand & Gravel, Inc.	Mechanicsburg Sand & Gravel, Inc.	Union	gravel—road construction/resurfacing	Cpn-22
	Moore's Excavating Co.	Moore's Excavating Co.	Salem	sand—unspecified	Cpn-20
		Moore's Excavating Co.	Salem, Wayne	gravel—unspecified	Cpn-25
	Morrow Gravel Co.	Urbana	Urbana	gravel—building	Cpn-1
				sand—unspecified	
				gravel—unspecified	
	American Excavating, Inc.	American Excavating, Inc.	Bethel	gravel—portland cement concrete, road construction/resurfacing, unspecified	Clk-A
	Baisden Sand & Gravel	Baisden Sand & Gravel	German	sand—unspecified	Clk-B
	Barrett Paving Materials, Inc.	Barrett Paving Materials Inc.	Mad River	gravel—unspecified	Clk-28
	Demmy Construction, Inc.	Demmy Constuction, Inc.	Mad River	sand—building, portland cement concrete	Clk-501
	Demmy Sand & Gravel	Demmy Sand & Gravel	Mad River	gravel—portland cement concrete, asphaltic concrete	Clk-502
	Martin Marietta Aggregates	Fairborn Gravel	Bethel	sand—fill	Clk-13
				gravel—filtration	
	Moore's Excavating Co.	Moore's Excavating Co.	Moorefield	sand—building	Clk-29
				gravel—building	
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1303	Springfield	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified	Clk-25
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	
				sand—building	Clk-TH
				gravel—building	
	Terry A. Hoppes	Hoppes	Springfield		

2004 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Clermont	Evans Gravel, Inc.	Evans Gravel, Inc.	Union	sand—portland cement concrete, asphaltic concrete	Ct-9
	Kipp's Gravel Co., Inc.	Kipp's Gravel Co., Inc.	Stonelick	gravel—portland cement concrete sand—unspecified gravel—unspecified	Ct-7
Columbiana	Carl Walter	Carl Walter	West	sand—building gravel—building	Ca-W
	Hartley Gravel	Hartley Gravel	Knox	gravel—building	Ca-H1
	Harvest Sand & Gravel, Inc.	Eberly	Salem	sand—road construction/resurfacing	Ca-H2
		Harvest Sand & Gravel, Inc.	Salem	gravel—road construction/resurfacing sand—unspecified	Ca-H
	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	gravel—road construction/resurfacing sand—building, road construction/resurfacing, fill	Ca-S
	Willowbrook Sand & Gravel	Willowbrook Sand & Gravel	Elk Run	gravel—building, road construction/resurfacing, filtration sand—unspecified	Ca-993
	X L Sand & Gravel	X L Sand & Gravel	Middleton	gravel—unspecified sand—building gravel—building	Ca-881
Coshocton	Apache Aggregate & Paving Co.	Apache Pit #1	Keene	sand—portland cement concrete, asphaltic concrete	Cn-783
		Apache Pit #2	Jackson	gravel—portland cement concrete, asphaltic concrete sand—portland cement concrete, asphaltic concrete	Cn-718
	Razor Lake S. & G., LLC	Razor Lakes S. & G., LLC	Oxford	gravel—portland cement concrete, asphaltic concrete sand—unspecified	Cn-R
	Shady Bend Sand & Gravel	Shady Bend Sand and Gravel	Oxford	gravel—building sand—road construction/resurfacing	Cn-624
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1305	Bethlehem	gravel—road construction/resurfacing sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified	Cn-694
	Walhonding Sand & Gravel	Walhonding Valley Sand & Gravel	New Castle	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Cn-WL
	William Albert, Inc.	William Albert, Inc. Pit 2	Lafayette	sand—building gravel—road construction/resurfacing	Cn-WA
				sand—building, road construction/resurfacing, fill, unspecified gravel—building, road construction/resurfacing, filtration	
	Gibson Sand & Gravel Co.	Gibson Sand & Gravel Co.	Jefferson	sand—fill	Cd-G
	Boyas Excavating, Inc.	Boyas Excavating, Inc.	Independence	sand—fill	Cya-42
Darke	Fouremen's Sand & Gravel, Inc.	Fouremen's Sand & Gravel, Inc.	Greenville	sand—building, portland cement concrete, industrial sand gravel—building, portland cement concrete	Dke-4
Erie	Jarrett Sand Co.	Jarrett Sand Co.	Groton	sand—unspecified	Ee-29
Fairfield	James E. Downard	Downard Pit	Rush Creek	sand—unspecified	Fd-16
	Paul D. Beery Trucking Co.	Paul D. Beery Trucking Co.	Berne	sand—unspecified gravel—unspecified	Fd-14
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1314	Berne	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Fd-13

Franklin	Agg Rok Materials	Agg Rok	Franklin	sand—building, portland cement concrete, asphaltic concrete	Ftn-36
	George C. Smith/Mason's Sand & Gravel Co.	Mason's Sand & Gravel Co.	Hamilton	gravel—building, asphaltic concrete	Ftn-11
	JP Sand & Gravel Co.	JP Sand & Gravel Co.	Hamilton	gravel—building	Ftn-52
	Olen Corp.	Columbus Plant #3	Hamilton	sand—building	Ftn-58
				sand—building, portland cement concrete, asphaltic concrete	
	S & S Aggregate, Inc.	Plant #6	Hamilton	gravel—building, portland cement concrete, asphaltic concrete	Ftn-24
	Shelly Materials, Inc.	Lockbourne #1333	Hamilton	gravel—building	Ftn-23
				sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	
Fulton	Hunter Land Development Northwest Ohio Property Developments, Ltd.	Hunter Land Development NOPD, Ltd.	Swan Creek	sand—unspecified	Ftn-H
	Sandman Trucking, Inc.	Sandman Trucking, Inc.	Dover	sand—building, agriculture	Ftn-NW
	Wylie and Sons Landscaping	Wylie and Sons Landscaping	Swan Creek	sand—building	Ftn-SAI
			Swan Creek	sand—unspecified	Ftn-W2
Gallia	Jaclob Enterprises, Inc.	Cheshire Pit	Cheshire	sand—fill	Ga-JE
	Ours Sand & Gravel	Ours Sand & Gravel	Ohio	gravel—filtration	Ga-O
				sand—unspecified	
Geauga	Haueter Sand & Gravel, Inc.	Haueter Sand & Gravel, Inc.	Burton, Newbury	sand—building, portland cement concrete	Gea-29
	Newbury Sand & Gravel, Inc.	Newbury Sand & Gravel, Inc.	Burton, Newbury	gravel—filtration, unspecified	Gea-N
	Soltis Sand & Gravel	Soltis Sand & Gravel	Parkman	sand—unspecified	Gea-9
	T & K Kuhnle Co.	Munn Rd. Sand & Gravel	Auburn	sand—fill	Gea-TK
				gravel—road construction/resurfacing	
				sand—building	
				gravel—building	
Greene	Barrett Paving Materials, Inc.	Fairborn Aggregate Plant	Bath	sand—building, portland cement concrete, asphaltic concrete	Ge-4
				gravel—building, portland cement concrete, asphaltic concrete	
	Joann O. Weddle	Weddle Gravel	Xenia	sand—unspecified	Ge-W
	M. J. Coates Construction Co., Inc.	M. J. Coates Construction Co., Inc.	Spring Valley	gravel—unspecified	Ge-47
	Martin Marietta Aggregates	M. J. Coates Construction Co., Inc.	Spring Valley	gravel—unspecified	Ge-G
		Spring Valley S & G	Spring Valley	sand—building	Ge-42
		Xenia S & G	Beaver Creek, Xenia	gravel—building	Ge-33
				sand—building	
	Phillips Sand & Gravel	Phillips Sand & Gravel	Beaver Creek	gravel—building	Ge-36
				sand—unspecified	
	R.J. Martin Service & Excavating	Horseshoe Bend Sand & Gravel, Inc.	Spring Valley	gravel—unspecified	Ge-40
	Richards Service Garage	Richards Service Garage	Xenia	gravel—unspecified	Ge-R
	Xenia Sand, Gravel, & Asphalt Co.	Xenia Sand & Gravel LTD.	Xenia	sand—building	Ge-10
				sand—fill	
				gravel—fill	

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County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Hamilton	Allegeier & Son, Inc.	Allgeier & Son Inc. Pit 1	Miami	sand—building	Hmn-AS1
			Miami	gravel—building	Hmn-C
	Ashcraft Sand & Gravel, Inc.	Allgeier & Son, Inc. Pit 2	Whitewater	sand—building	Hmn-AS
			Whitewater	gravel—building	Hmn-54
			Whitewater	sand—building	Hmn-44
	Crosby Gravel, Inc.	Ashcraft Sand & Gravel, Inc.	Crosby	gravel—fill	Hmn-E
			Anderson	gravel—aspaltic concrete	Hmn-50
	Evans Gravel, Inc.	Dry Fork Sand & Gravel	Harrison	sand—unspecified	Hmn-17
			Harrison	gravel—unspecified	Hmn-JC
	Hanson Aggregates Midwest, Inc.	Harrison Sand & Gravel	Whitewater	sand—building, fill, unspecified	Hmn-71
			Whitewater	gravel—building, portland cement concrete, road construction/resurfacing, filtration, unspecified	Hmn-37
	Harrison Sand & Gravel Co.	Harrison Sand & Gravel	Harrison	sand—building, portland cement concrete	Hmn-P
			Harrison	gravel—building, portland cement concrete	Hmn-67
	Joe E. Carter	Lost Bridge	Whitewater	sand—building	Hmn-68
	Martin Marietta Aggregates	E-town Sand & Gravel	Whitewater	gravel—building	Hmn-AR
			Whitewater	sand—building	Hmn-60
Highland	R. L., Ltd.	Harrison Sand & Gravel	Miami	sand—building	Hmn-64
			Crosby	gravel—unspecified	Hmn-48
	Watson Gravel, Inc.	Stuart Pit	Whitewater	sand—unspecified	Hmn-42
			Whitewater	gravel—building	Hd-L
	Welch Sand & Gravel, Inc.	Dry Fork Harrison #2	Whitewater	sand—building, portland cement concrete, asphaltic concrete, unspecified	Hg-HA
			Whitewater	gravel—building, portland cement concrete, road construction/resurfacing	Hg-262
	Ervin Hill Enterprises, Inc.	Harrison Pit Minges-Getz	Whitewater	gravel—building	Hg-HV
			Miami	sand—building	Hg-L
	Harden Sand & Gravel	East Miami Pit	Colerain	gravel—building	Hg-301
			Crosby	sand—building	
Hocking	Ervin Hill Enterprises, Inc.	Fernald Pit	Market	gravel—building	
			Market	sand—building, fill	
	Harden Agricultural Lime & Reclam. Svs., Inc.	Ervin Hill Enterprises, Inc.	Green	gravel—building, road construction/resurfacing, filtration	
			Green	sand—building	
	Hocking Valley Concrete, Inc.	Harden Sand & Gravel	Green	gravel—building	

Holmes	Craigton Shale Co.	Lakeville Sand & Gravel, LTD.	Washington	sand—portland cement concrete gravel—building sand—building, portland cement concrete, road construction/resurfacing gravel—building, portland cement concrete, road construction/resurfacing sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, asphaltic concrete, road construction/resurfacing, filtration sand—portland cement concrete, asphaltic concrete, ice control gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing sand—unspecified gravel—unspecified	Hs-C Hs-511 Hs-J Hs-82 Hs-96 Jkn-M Kx-16 Kx-S Kx-15 Kx-17 Kx-3 Lke-CIR Lke-C Lke-6 Lke-7 Le-426 Lg-504 Lg-31 Lg-W Lg-10 Lgn-B
	Feikert Sand & Gravel, Inc.	Feikert Sand & Gravel, Inc.	Salt Creek		
	Holmes Supply Corp.	Holmes Supply Corp.	Prairie		
	Menuez Bros. Sand & Gravel, Inc.	Menuez Bros. Sand & Gravel, Inc.	Hardy		
	Spring Run Gravel	Spring Run Gravel	Killbuck		
Jackson	MAR-DEL Enterprises, Inc.	MAR-DEL Enterprises, Inc.	Jackson		
Knox	Olen Corp.	Hyatt Road Plant #2	Morris		
	Small's Sand & Gravel, Inc.	Small's Sand & Gravel, Inc	Howard		
		Small's Sand & Gravel, Inc.	Harrison		
		Small's Sand & Gravel, Inc.	Harrison		
Knox	United Aggregates, Inc.	United Aggregates, Inc.	Clinton		
Lake	C.I.R., Inc. Cashen, Inc.	Harmon Cashen, Inc.	Madison Perry		
	Osborne Materials Co. R. W. Sidley, Inc.	Osborne Materials Co. Sidley-Painesville Plant	Painesville		
Lawrence	Burlington Sand & Gravel Co.	Burlington Sand & Gravel Co.	Perry		
Licking	Gary Roberts Excavating	Gary Roberts Excavating	Madison		
	Olen Corp.	St. Louisville Plant #5	Washington		
	Shelly Materials, Inc.	Eagle Material Supply Ltd. Plant	St. Albans		
		Van Wey Sand & Gravel Plant #1312	Newton		
Logan	Boyd Excavating	Boyd Excavating	Monroe		

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County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Logan (cont.)	Duff Quarry, Inc. Neer's Sand & Gravel	Duff Quarry, Inc. Duff Sand Co. Neer's Sand & Gravel	Lake Washington Union	sand—fill sand—building, portland cement concrete sand—unspecified gravel—unspecified	Lgn-36 Lgn-31 Lgn-6
Lorain	Guy Schieve	Schieve Pit	Henrietta	sand—building	Ln-12
Lucas	H. T. Griffin Excavating, Inc.	H. T. Griffin Excavating, Inc.	Swanton	sand—unspecified gravel—unspecified	Ls-G
Madison	Tuffco Sand & Gravel, Inc.	Tuffco Sand & Gravel, Inc.	Darby	sand—building, asphaltic concrete gravel—building	Mdn-11
Mahoning	Joe Yochman Excavating, Inc.	Yochman	Milton	sand—building gravel—building	Mg-Y
Marion	Fleming Construction Co., Inc.	Pit #1 Pit #2	Prospect Prospect	sand—building, portland cement concrete, unspecified gravel—unspecified sand—portland cement concrete	Mn-16 Mn-19
Medina	Baker Sand, Inc. Seville Sand & Gravel, Inc.	Baker Sand, Inc. Seville Sand & Gravel, Inc.	Harrisville, Westfield Harrisville, Westfield	sand—building, asphaltic concrete, unspecified gravel—building, asphaltic concrete sand—building, asphaltic concrete, fill gravel—building, asphaltic concrete, road construction/ resurfacing, filtration	Ma-20 Ma-22
Meigs	Jaymar, Inc. Martin Marietta Aggregates	Plant #4 Apple Grove Plant	Olive Letart	sand—unspecified gravel—unspecified sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Ms-308 Ms-205
	Meigs County Commissioners Shelly Materials, Inc.	Letart Pit Shelly Materials, Inc. Plant #1306	Letart Letart	sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Ms-301 Ms-298
Miami	Fenner Sand & Gravel, Inc. Lloyd B. Fry Martin Marietta Aggregates Tipp Stone Co., Inc.	Woodville Concrete Corp. Lloyd B. Fry Troy Gravel Tipp Stone Co., Inc.	Newton Washington Concord Elizabeth	sand—unspecified gravel—unspecified sand—building gravel—building sand—building gravel—building sand—road construction/resurfacing gravel—road construction/resurfacing	Mi-4 Mi-T Mi-3 Mi-12
Montgomery	Barrett Paving Materials, Inc.	West Carrollton Aggregate Plant Barrett Paving Materials Inc.	Jefferson, Miami Madison	sand—building, portland cement concrete gravel—building, portland cement concrete sand—unspecified gravel—unspecified	My-19 My-B

Morgan	Carter & Carter, Inc.	Carter & Carter, Inc.	Miami	sand—road construction/resurfacing	My-CW
	Martin Marietta Aggregates	Rip Rap Rd.	Wayne	gravel—road construction/resurfacing	My-66
	Miller Bros. Gravel, Inc.	Miller Bros. Gravel, Inc.	Butler	gravel—building	My-52
	Moraine Materials Co., Inc.	Germantown Plant 21	German	sand—portland cement concrete	My-41
Morrow	S.R.I., Inc.	S.R.I., Inc.	Jefferson	gravel—unspecified	My-R
	Tipp Stone Co., Inc.	Tipp Stone Co., Inc.	Butler	gravel—unspecified	My-61
	Wysong Gravel Co.	Wysong Gravel Co.	Madison	sand—road construction/resurfacing	My-Wy
				gravel—building	
Muskum	Link Trucking Co., Inc.	Mathew	Bloom	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, industrial gravel—building, asphaltic concrete, road construction/resurfacing, filtration	Mon-L
	Chesterville Sand & Gravel Co., Inc.	Chesterville Sand & Gravel Co., Inc.	Chester	sand—building, fill	Mw-10
	LUB Inc.	LUB, Inc.	Muskingum	gravel—building, road construction/resurfacing, filtration	
	Muskingum River Gravel Co.	S & S Aggregate #1	Wayne	sand—building	Mum-LB
Pickaway	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1309	Cass	gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Mum-228
	Zemba Farms, Ltd.	Zemba Brothers, Inc.	Muskingum	gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Mum-799
	Darby Creek Excavating, Inc.	Darby Creek Excavating, Inc.	Muhlenburg	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Mum-Z
	George J. Igel & Co., Inc.	George J. Igel & Co., Inc.	Darby	sand—fill, industrial sand	Pky-DC
Pike	Roy M. Roush	R Farm S & G	Darby	gravel—fill	Pky-C
	The Melvin Stone Co., LLC	Circleville	Wayne	sand—road construction/resurfacing	Pky-RR
	William A. Hoffman, Jr.	Hoffman Pit	Wayne	sand—building, portland cement concrete asphaltic concrete	Pky-R
	Hanson Aggregates Midwest, Inc.	Piketon Sand & Gravel	Scioto	gravel—building, asphaltic concrete, road construction/resurfacing, residential	Pky-H
Pike	South Central Sand & Gravel	South Central Sand & Gravel	Scioto	sand—fill	Pke-24
	Valley Materials Co.	Valley Materials #1	Scioto	gravel—unspecified	Pke-30
		Valley Materials #2	Scioto	sand—portland cement concrete	Pke-26
			Scioto	gravel—road construction/resurfacing	Pke-V

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County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Portage	Ballentine Excavation Co.	Ballentine Lake	Shalersville	sand—unspecified gravel—unspecified	Pe-BA
	Beck Sand & Gravel, Inc.	Beck Sand & Gravel, Inc.	Shalersville	sand—unspecified gravel—unspecified	Pe-50
	D & K Materials, Inc.	D & K Materials, Inc.	Brimfield	sand—building, road construction/resurfacing	Pe-101
	GANS Ltd.	Gans Ltd. dba Brimfield Sand & Soils	Brimfield	gravel—road construction/resurfacing	Pe-102
	Hilltop Aggregate, Inc.	Hilltop Aggregate, Inc.	Suffield	sand—building gravel—building	Pe-56
	Hugo Sand Co.	Hugo Sand Co.	Franklin	sand—unspecified gravel—unspecified	Pe-10
	Janson & Sons Corp.	Janson & Sons Corp.	Mantua	sand—building, portland cement concrete	Pe-J
	Lafarge North America	Shalersville Plant - Great Lakes	Shalersville	gravel—unspecified sand—portland cement concrete, asphaltic concrete	Pe-68
	Lakeside Sand & Gravel Co.	Lakeside Sand & Gravel Co.	Shalersville	gravel—building, asphaltic concrete	Pe-40
	Lucky Sand & Gravel Co.	Lucky Sand & Gravel Co.	Mantua	sand—portland cement concrete gravel—portland cement concrete	Pe-L
	Miller's Sand & Gravel, Inc.	Miller Sand & Gravel, Inc.	Windham	sand—building, fill, foundry	
	Mills Rock, Sand, & Soil Inc.	303 Sand & Gravel	Shalersville	gravel—building, road construction/resurfacing, filtration, roofing	Pe-39
	Oscar Brugmann Sand & Gravel,	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	sand—road construction/resurfacing	Pe-M
	Patrick Excavating, Inc.	Patrick	Charlestown	gravel—road construction/resurfacing	Pe-9
	R. A. Cruise Sand & Gravel, Inc.	R. A. Cruise Sand & Gravel, Inc.	Franklin, Ravenna	sand—unspecified gravel—unspecified	Pe-P Pe-45
	Rainbow Sand & Gravel, Inc.	Rainbow Sand & Gravel, Inc.	Shalersville	sand—building, portland cement concrete	Pe-64
	Rockwell Sand & Gravel, Inc.	Rockwell Sand & Gravel, Inc.	Streetsboro	gravel—building sand—portland cement concrete	Pe-85
	S & S Aggregate, Inc.	S & S Agg #16	Ravenna	sand—building gravel—building	Pe-15
	Schloss Materials Co.	Schloss Materials Co.	Mantua	sand—asphaltic concrete, road construction/resurfacing, unspecified	Pe-60
	Shelly Materials, Inc.	Jefferson Materials Co.	Streetsboro	sand—building gravel—building	Pe-63
	Sober Sand & Gravel Co.	Sober Sand & Gravel Co.	Rootstown	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified	Pe-18
	Solon Excavators Sand & Gravel,	Valley Brook	Shalersville	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Pe-V1
	Sunshine Sand Co.	Sunshine Sand Co.	Franklin	sand—building, road construction/resurfacing	Pe-SSC
	Twinsburg Development Corp.	Twinsburg Development Corp.	Aurora	gravel—building sand—unspecified sand—portland cement concrete	Pe-84

Richland	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin	sand—building gravel—building	Pre-9
	Thomas Sand & Gravel	Thomas Sand & Gravel	Lanier	sand—road construction/resurfacing	Pre-T
	U.S. Aggregates, Inc. Wysong Gravel Co.	U.S. Aggregates/Richmond Plant Wysong Gravel Co.	Jefferson Somers	asphaltic concrete sand—building gravel—building	Pre-AAC Pre-4
	Bartley & Bolin Excavating	Bartley & Bolin, Inc.	Weller	sand—building gravel—bank run	Rd-20
	D. H. Bowman & Sons, Inc.	D. H. Bowman & Sons, Inc.	Jefferson	sand—asphaltic concrete, fill	Rd-4
	Ganges Gravel Co.	Ganges Gravel Co.	Cass	gravel—asphaltic concrete, road construction/resurfacing sand—building, fill	Rd-18
	John L. Garber Materials, Inc.	John L. Garber Materials, Inc.	Troy	gravel—building sand—building	Rd-14
	S & S Aggregate, Inc.	John L. Garber Materials, Inc. S & S Agg. #14	Washington Monroe	gravel—building sand—asphaltic concrete, road construction/resurfacing, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	Rd-G Rd-5
	D.G.M., Inc.	Towpath-Warwick	Twin	sand—building, portland cement concrete gravel—building, portland cement concrete	Rs-D
	David E. Edgington	Edgington Pit	Concord	sand—building gravel—building	Rs-E
Ross	Haubeil & Sons Asphalt & Materials, Inc.	Haubeil & Sons Asphalt & Materials, Inc.	Springfield	sand—building, portland cement concrete, asphaltic concrete gravel—asphaltic concrete, road construction/resurfacing, filtration	Rs-H
	Mark E. Scott	Scott Pit	Green	sand—building gravel—building	Rs-P
	Muskingum River Gravel Co.	S & S Aggregate Plant #7	Jefferson	sand—asphaltic concrete, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	Rs-M
	Olen Corp.	Chillicothe	Liberty	sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete	Rs-G
	Shelly Materials, Inc.	Shelly Material, Inc. Plant #1321	Springfield	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Rs-27
	Tackett Builders	Tackett's Pit	Springfield	sand—building gravel—building	Rs-T
	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Sandusky	sand—unspecified gravel—unspecified	Sy-5
	Boone Coleman Construction, Inc.	Coleman Pit	Washington	sand—building gravel—building	So-B
	D.G.M., Inc.	Tow Path Ready Mix	Morgan	sand—building, portland cement concrete	So-DGM
	E. E. Blair Construction Co.	Cab Pit	Porter	sand—unspecified gravel—unspecified	So-98
Sandusky	Hanson Aggregates Midwest, Inc.	Scioto Valley Resources	Valley	sand—unspecified gravel—unspecified	So-100
	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Sandusky	sand—unspecified gravel—unspecified	Sy-5
	Boone Coleman Construction, Inc.	Coleman Pit	Washington	sand—building gravel—building	So-B
	D.G.M., Inc.	Tow Path Ready Mix	Morgan	sand—building, portland cement concrete	So-DGM
	E. E. Blair Construction Co.	Cab Pit	Porter	sand—unspecified gravel—unspecified	So-98
	Hanson Aggregates Midwest, Inc.	Scioto Valley Resources	Valley	sand—unspecified gravel—unspecified	So-100
	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Sandusky	sand—unspecified gravel—unspecified	Sy-5
	Boone Coleman Construction, Inc.	Coleman Pit	Washington	sand—building gravel—building	So-B
	D.G.M., Inc.	Tow Path Ready Mix	Morgan	sand—building, portland cement concrete	So-DGM
	E. E. Blair Construction Co.	Cab Pit	Porter	sand—unspecified gravel—unspecified	So-98

2004 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Stark	Lawson Limited Partnership	ATS Mining	Green	sand—building, portland cement concrete, road construction/resurfacing	So-79
	Scioto Sand & Stone, Inc.	Scioto #1	Porter	gravel—building, road construction/resurfacing sand—building	So-BT
	Barrett Paving Materials, Inc.	Jones Deposit	Washington	gravel—building sand—unspecified	Shy-18
		Morelock Pit	Washington	gravel—unspecified sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, fill	Shy-SC
		Pence Pit	Washington	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—unspecified	Shy-11
		Schmidt Deposit	Washington	gravel—unspecified	Shy-SC1
	Miami River Stone Co.	Miami River Stone Co.	Orange	sand—unspecified sand—road construction/resurfacing	Shy-17
		Rock Run	Washington	gravel—road construction/resurfacing	Shy-16
		Staley Pit	Clinton, Salem	gravel—unspecified	Shy-SS
		Washington Twp. Pit	Washington	gravel—road construction/resurfacing gravel—unspecified	Shy-13
	American Sand & Gravel, Inc.	Plant #4	Jackson	sand—road construction/resurfacing	Sk-243
	Beaver Excavating, Inc.	Stone Products	Canton	gravel—road construction/resurfacing sand—unspecified	Sk-BE
	Central-Allied Enterprises, Inc.	Canton Aggregate Div.	Plain	gravel—unspecified	Sk-681
		Central Aggregate Div.	Perry	gravel—unspecified sand—unspecified	Sk-CA
		Central Sand & Gravel Div.	Plain	gravel—unspecified sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Sk-CA1
		Massillon Washed Gravel Div.	Bethlehem	gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified road construction/resurfacing, unspecified	Sk-607
		Massillon Washed Gravel Div.	Bethlehem	sand—unspecified gravel—unspecified	Sk-MW
	Dale B. Rohr	Dale B. Rohr	Jackson	gravel—unspecified	Sk-RO
	Heiser Sand & Gravel Corp.	Heiser Sand & Gravel Corp.	Jackson	sand—unspecified gravel—unspecified	Sk-HS1
	Massillon Materials, Inc.	Massillon Materials, Inc.	Perry	sand—building gravel—building	Sk-M
		MMI Warmington Plant	Perry	sand—asphaltic concrete, road construction/resurfacing gravel—asphaltic concrete, road construction/resurfacing	Sk-M1
	National Aggregates, Inc.	National Aggregates, Inc.	Sandy	sand—road construction/resurfacing gravel—road construction/resurfacing	Sk-1017
	Oster Sand & Gravel, Inc.	Massillon Plant	Jackson, Perry	sand—unspecified gravel—unspecified	Sk-165
		Wagner & Sons	Bethlehem	sand—building, portland cement concrete, asphaltic concrete, fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified sand—fill gravel—filtration	Sk-W

Summit	Shelly Materials, Inc.	Allied Corp., Inc. #1301	Perry	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Sk-N
	Alden Excavating S & S Aggregate, Inc.	Alden Excavating Twin Lakes - S & S Agg. #9	Northampton Coventry	sand—building sand—asphaltic concrete, road construction/resurfacing, unspecified gravel—asphaltic concrete, unspecified	St-55 St-44
Trumbull	Timothy P. Gleason	Springbrook	Mesopotamia	sand—building, portland cement concrete, asphaltic concrete, fill gravel—building	TL-12
Tuscarawas	J. E. Nicolozakes Co.	Bank One	Goshen	sand—unspecified gravel—unspecified	Ts-N
	JBM Ltd.	State Rte. 416 Sand & Gravel	Goshen	sand—building gravel—building	Ts-2018
	L & M Mineral Co.	Spring Industries	Goshen, Warwick	sand—building gravel—building	Ts-SI
	Massillon Materials, Inc. Newton Asphalt Paving, Inc.	MMI Sandville Plant 516	Sandy Dover	gravel—road construction/resurfacing sand—asphaltic concrete	Ts-MM Ts-2001
	Oster Sand & Gravel, Inc.	Oster Sand & Gravel, Inc. - Bolivar	Sandy	gravel—asphaltic concrete sand—building, portland cement concrete, asphaltic concrete, fill	Ts-2036
	Sidco Development, Inc.	Midvale Sand & Gravel	Goshen	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing sand—portland cement concrete, asphaltic concrete	Ts-S2
	Soehnlen Bros. Sand & Gravel, Inc.	Soehnlen Bros. Sand & Gravel, Inc.	Wayne	gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing sand—building, industrial sand	Ts-1826
	Stewart & Reichman, Inc.	Stewart & Reichman, Inc.	Warwick	gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—building	Ts-111
	Stocker Sand & Gravel Co.	Stocker Sand & Gravel Co. - Gnaden	Clay	gravel—road construction/resurfacing sand—building, road construction/resurfacing	Ts-69
		Stocker Sand & Gravel Co. - Island	Clay	gravel—building, road construction/resurfacing gravel—building, road construction/resurfacing	Ts-125
Warren	Carl E. Oeder & Sons Sand & Gravel	Carl E. Oeder and Sons Sand & Gravel	Turtle Creek	sand—unspecified gravel—unspecified	Wan-41
	L & I Natural Resources, Inc.	L & I Pit & Mill	Union	sand—building gravel—building	Wan-50
	Little Miami Sand & Gravel	Little Miami Sand & Gravel Plant #1	Salem	sand—building gravel—building	Wan-B
		Little Miami Sand & Gravel Plant 2	Salem	sand—building gravel—building	Wan-46
	Martin Marietta Aggregates	Franklin Gravel	Franklin	sand—building gravel—building	Wan-38
	Miami View Mining Co., Ltd.	Miami View	Union	gravel—unspecified sand—unspecified	Wan-MV
	Moraine Materials Co., Inc.	Embro, Inc.	Franklin	gravel—unspecified sand—unspecified	Wan-7
	Morrow Gravel Co.	Morrow Gravel Co.	Hamilton	gravel—unspecified sand—unspecified	Wan-M

2004 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Washington	Atlas Towing Co.	Belpre Bank Run	Belpre	sand—bank run	Wn-54
	Briggs Sand & Gravel, Inc.	Briggs Sand & Gravel, Inc.	Warren	sand—bank run	Wn-508
	Grimes Excavating	Grimes Sand and Gravel	Grandview	sand—building	Wn-1008
	Muskingum River Gravel Co.	Plant #2	Grandview	gravel—road construction/resurfacing	Wn-38
	Sharon Stone Co.	Belpre Sand & Gravel	Belpre	sand—unspecified	Wn-SS
Wayne	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1341	Newport	gravel—unspecified	Wn-C
	Trout Sand & Gravel Co.	Trout Sand & Gravel Co.	Warren	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Wn-510
	Prairie Lane Sand & Gravel Co.	Prairie Lane Sand & Gravel Co.	Franklin	sand—unspecified	We-11 ¹
	Rupp Construction, Inc.	Rupp Construction, Inc.	Baughman	gravel—unspecified	We-7
	Wooster Aggregates, LLC	Wooster Aggregates, LLC	Franklin	sand—building, road construction/resurfacing	We-11 ¹
Williams	Zollinger Sand & Gravel Co.	Zollinger Sand & Gravel Co.	Chippewa	gravel—building	We-15
	Andy Nixon Contractors, Inc.	Nixon Pit	Madison	sand—building, road construction/resurfacing	Ws-N
	Thiel Construction Co.	Thiel Construction Co.	Superior	gravel—building	Ws-21
	Weber Sand & Gravel, Inc.	Weber Sand & Gravel, Inc.	St. Joseph	sand—unspecified	Ws-11
	JALIP, LTD.	JALIP, LTD.	Pitt	sand—building, portland cement concrete	Wt-J
Wyandot	Kirby's Sand & Gravel, Inc.	Kirby's Sand & Gravel, Inc.	Crane, Eden	gravel—building, portland cement concrete	Wt-17
	National Lime & Stone Co.	Upper Sandusky Plant	Eden	gravel—building, portland cement concrete, asphaltic concrete	Wt-15
	Precision Aggregate, Inc.	Precision Aggregate I	Eden	gravel—road construction/resurfacing	Wt-4

¹This mine was operated January through May 2004 by Prairie Lane Sand & Gravel Co. and June through December 2004 by Wooster Aggregates LLC

**2004 SANDSTONE/CONGLOMERATE
COMPANIES WITH SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
American Stone Corp. dba Cleveland Quarries	1	7,241	7,241
Best Sand Corp.	2	848,970	794,274
Briar Hill Stone Co.	5	21,033	21,033
Oscar Brugmann Sand & Gravel, Inc.	1	44,899	46,000
Carmen Cicero	1	11,000	11,000
City Stone LLC	1	136,238	136,238
D. & D. Mining Co.	1	8,431	8,431
Timothy P. Gleason	1	681	681
J. L. & Son Excavating Inc.	1	225	300
Johnson Stone Products, Inc.	1	5,600	5,600
Keeney Sand & Stone, Inc.	1	122,832	122,832
Kimble Clay & Limestone Co.	1	5,000	5,000
L & M Mineral Co.	1	1,200	1,200
Lower Springs Quarry	1	5,318	9,500
Mesenburg Bros., Inc.	1	13,252	13,252
Newbury Sand & Gravel, Inc.	1	29	29
Oglebay Norton Industrial Sands, Inc.	2	297,887	297,887
Riverside Sand & Gravel Co., Inc.	1	2,484	2,484
Schrader and Son, Inc.	1	25,247	25,247
R. W. Sidley, Inc.	2	120,450	145,450
Sidwell Materials, Inc.	1	16,770	16,770
Solomon's Mines, Inc.	1	32,363	32,363
Waller Bros. Stone Co.	2	20,965	20,965
TOTAL: 23 companies	31	1,748,115	1,723,777

2004 OHIO DIRECTORY OF SANDSTONE/CONGLOMERATE MINE OPERATORS

REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Gea-N).

County	Name of operator	Name of quarry	Township	Geological unit	Type and principal use	State mine number
Belmont	Sidwell Materials, Inc.	Bellaire Stone	Pultney	Pennsylvanian	crushed or broken stone—riprap	Bt-1190
Columbiana	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	Pennsylvanian	crushed or broken stone—aggregate, construction	Ca-S
Coshocton	Briar Hill Stone Co.	Quarry # 56 Quarry #24 Quarry #3 Quarry #32 Quarry #55	Clark Monroe Tiverton Monroe Monroe	Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian)	dimension stone—rough construction dimension stone—rough construction dimension stone—rough construction dimension stone—rough construction dimension stone—rough construction	Cn-BH Cn-692 Cn-659 Cn-686 Cn-815
Erie	American Stone Corp. dba Cleveland Quarries	Birmingham Quarry	Florence	Berea (Mississippian)	dimension stone—rough construction, rubble, finished stone	Ee-21
Geauga	Best Sand Corp.	Best Sand Corp.	Munson	Sharon (Pennsylvanian)	crushed or broken stone—foundry sand, glass sand, metallurgical pebble, refractory, polish/grinding sand, engine sand, construction, industrial sand, other	Gea-3
	Newbury Sand & Gravel, Inc.	Newbury Sand & Gravel, Inc.	Burton, Newbury Hamden Thompson	Sharon (Pennsylvanian) Sharon (Pennsylvanian)	crushed or broken stone—other	Gea-N
	R. W. Sidley, Inc.	Sidley-Hamden Pit Thompson Pit			crushed or broken stone—unspecified crushed or broken stone—aggregate, polish/grinding sand	Gea-S Gea-1
Huron	Mesenburg Bros., Inc.	Mesenburg Bros., Inc.	Townsend	Berea (Mississippian)	crushed or broken stone—riprap	Hrn-8
Knox	Oglebay Norton Industrial Sands, Inc.	Millwood Plant	Butler Union	Black Hand (Mississippian) Black Hand (Mississippian)	crushed or broken stone—foundry sand, glass sand, engine sand construction, industrial sand, other	Kx-1
Lake	Keeney Sand & Stone, Inc.	Keeney Sand & Stone, Inc.	Leroy	Berea (Mississippian)	crushed or broken stone—aggregate, construction	Lke-K
Lorain	Johnson Stone Products, Inc.	Kipton Quarry	Camden	Berea (Mississippian)	crushed or broken stone—riprap	Ln-J
Mahoning	Carmen Cicero D. & D. Mining Co.	Rt. 534 Stone Products D. & D. Strip	Milton Springfield	Sharon (Pennsylvanian)	crushed or broken stone—aggregate crushed or broken stone—other	Mg-62 Mg-D
Perry	Oglebay Norton Industrial Sands, Inc.	Glass Rock Plant	Hopewell	Massillon (Pennsylvanian)	crushed or broken stone—foundry sand, glass sand, refractory, silica flour, industrial sand, other	Py-344
Pike	Best Sand Corp.	Best Sand Corp.	Jackson	Sharon (Pennsylvanian)	crushed or broken stone—metallurgical pebble, refractory, polish sand, polish/grinding, construction, other	Pke-31
Portage	Schrader and Son, Inc.	Schrader & Son, Inc.	Jackson	Sharon (Pennsylvanian)	crushed or broken stone—industrial sand	Pke-S
	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville		crushed or broken stone—other	Pe-9
Scioto	Waller Bros. Stone Co.	Crabtree Quarry New Inskeep Quarry	Union Rush	Buena Vista (Mississippian) Buena Vista (Mississippian)	dimension stone—rough construction dimension stone—rough construction	So-76 So-W
Summit	Riverside Sand & Gravel Co., Inc.	Riverside Sand & Gravel Co., Inc.	Stow, Tallmadge		crushed or broken stone—unspecified	St-24
Trumbull	City Stone LLC	City Stone LLC	Brookfield	Sharon sandstone (Pennsylvanian)	crushed or broken stone—unspecified	TL-CA
	Timothy P. Gleason	Springbrook	Mesopotamia		crushed or broken stone—unspecified dimension stone—other	TL-12

2004 CLAY COMPANIES WITH SALES OR PRODUCTION

Tuscarawas	J. L. & Son Excavating Inc. Kimble Clay & Limestone L & M Mineral Co. Lower Springs Quarry	Beach City Pit Kimble Clay & Limestone Co. Luikart Dundee Mine	Franklin Dover Mill, Warwick Wayne	Pennsylvanian Massillon (Pennsylvanian)	crushed or broken stone—aggregate crushed or broken stone—other crushed or broken stone—other crushed or broken stone—foundry sand dimension stone—other	Ts-2032 Ts-1818 Ts-1914 Ts-1660
2004 CLAY COMPANIES WITH SALES OR PRODUCTION						
Company		No. of operations	Sales (tons)	Production (tons)		
Bearcreek Clay Co.		2	54,720	54,720		
Belden Brick Co.		4	229,401	229,401		
Blue Jay Enterprises of Ts. Co., Inc.		2	13,675	13,675		
Bowerston Shale Co.		1	10,935	10,935		
Boyas Excavating, Inc.		1	1,254	1,254		
Buckeye-Industrial Mining Co.		2	4,650	4,650		
CEMEX, Inc.		1	90,945	90,945		
Cedar Heights Clay Co.		1	42,447	42,447		
Crompton Manufacturing Company, Inc.		1	22,175	22,175		
D. & D. Mining Co.		1	7,375	7,375		
ENZ, Inc.		1	55,422	55,422		
Envirosafe Services of Ohio, Inc.		1	9,600	9,600		
Harvest Sand & Gravel, Inc.		1	26	26		
Honey Creek Stone Co.		1	19,771	19,771		
Kimble Clay & Limestone Co.		1	60,000	60,000		
L & M Mineral Co.		2	10,768	10,768		
Loxley Aggregates, Inc.		1	2,944	2,944		
Luburgh Inc.		1	40,614	40,614		
Newbury Sand & Gravel, Inc.		1	457	457		
Nuway Services, Inc.		1	14,560	14,560		
Oxford Mining Co., Inc.		2	203,174	203,174		
Patrick Excavating, Inc.		1	4,646	4,646		
Red Brush Peat Co.		1	58	58		
Rumpke Waste, Inc.		1	48,017	48,017		
Sandkuhl Clay Works, Inc.		1	4,785	4,785		
SDI Steel Buildings LLC		1	1,680	1,680		
Joe Simak & Sons Trucking, Inc.		1	10,062	10,062		
Soltis Sand & Gravel		1	1,064	1,064		
State Line Resources, Inc.		1	60,000	60,000		
Stone Creek Brick Co.		1	29,605	29,605		
Thompson Bros. Mining Co.		1	13,822	13,822		
Valley Clay Mining Co.		1	10,300	10,300		
TOTAL: 32 companies		40	1,078,952	1,078,952		

2004 OHIO DIRECTORY OF CLAY-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Ch-B).

County	Name of operator	Name of mine or quarry	Township	Geological unit	Principal use	State mine number
Ashtabula	Joe Simak & Sons Trucking, Inc.	North Ridge Pit	Kingsville	Pleistocene	construction	Asa-18
Auglaize	Sandkuhl Clay Works, Inc.	Sandkuhl Clay Works, Inc.	Salem		common clay products	Ae-7
Brown	Rumpke Waste, Inc.	Rumpke Waste, Inc.	Pleasant	Upper Ordovician	landfill	Bn-W
Columbiana	Buckeye-Industrial Mining	Clay Clay	Madison		landfill	Ca-987
	D. & D. Mining Co.	D. & D. Strip	Madison		landfill	Ca-BIM
	Harvest Sand & Gravel, Inc.	Eberly	Unity		common clay products	Ca-348
	State Line Resources, Inc.	State Line Resources, Inc.	Salem	Lower Kittanning (Pennsylvanian)	common clay products	Ca-H2
			Middleton		common clay products	Ca-505
Cuyahoga	Boyas Excavating, Inc.	Boyas Excavating, Inc.	Independence	Bedford (Mississippian)	construction	Cya-42
Geauga	Newbury Sand & Gravel, Inc.	Newbury Sand & Gravel, Inc.	Burton,		unspecified	Gea-N
			Newbury			
			Parkman		construction	Gea-9
Greene	Soltis Sand & Gravel	Soltis Sand & Gravel	Bath	Silurian	cement manufacture	Ge-8
	CEMEX, Inc.	Miller				
Jackson	Cedar Heights Clay Co.	Harrison	Madison	Lower Kittanning (Pennsylvanian)	common clay products	Jkn-CH2
Lake	Crompton Manufacturing Company, Inc.	Lake County Nursery	Perry		landfill	Lke-U
Licking	Nuway Services, Inc.	Hopewell	McKean	Pleistocene	landfill	Lg-NU
Lucas	Envirosafe Services of Ohio, Inc.	Johlin Property Clay Mine	Oregon		landfill	La-E
Mahoning	Honey Creek Stone Co.	Honey Creek Stone Co.	Springfield	Pennsylvanian	unspecified	Mg-54
	Thompson Bros. Mining Co.	North Lima	Beaver		unspecified	Mg-588
Muskingum	Bowerton Shale Co.	Frazesburg	Jackson	Flint Ridge & Middle Mercer (Pennsylvanian)	common clay products	Mum-776
	Luburgh Inc.	Luburgh Inc.	Monroe		landfill	Mum-L1
	Valley Clay Mining Co.	Spring Pit	Newton	Tionesta (Pennsylvanian)	stoneware	Mum-904
Perry	Bearcreek Clay Co.	County Rd. 7 Mine	Monday Creek		common clay products	Py-338
	SDI Steel Buildings, LLC	Nelson/Common Mine	Clayton	Middle Kittanning (Pennsylvanian)	common clay products	Py-D1
		SDI Steel Buildings, Ltd.	Harrison		vitrified products	Py-SDI
Portage	Patrick Excavating, Inc.	Patrick	Charlestown		construction	Pe-P
	Red Brush Peat Co.	Red Brush Peat Co.	Franklin		landfill	Pe-61
Preble	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin	Pleistocene	construction	Pre-9
Stark	ENZ, Inc.	Sickafoose Pit	Pike, Sandy		landfill	Sk-208
	Oxford Mining Co., Inc.	Barr Farm	Bethlehem	Brookville (Pennsylvanian)	landfill	Sk-235
Tuscarawas	Belden Brick Co.	Belden Pit	Sugar Creek	Tionesta (Pennsylvanian)	common clay products	Ts-1646
		Moomaw Pit	Sugar Creek	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-1517
		Shanesville Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1939
		Wallick Pit	Franklin, Wayne	Brookville & Lower Kittanning (Pennsylvanian)	common clay products	Ts-1841
	Blue Jay Enterprises of Ts. Co., Inc.	Blue Jay #1	Sandy	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-BJ
		Swonger Waltz Mine	Sandy	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-520
	Kimble Clay & Limestone	Kimble Clay & Limestone Co.	Dover	Pennsylvanian	landfill	Ts-1818
	L & M Mineral Co.	Lutikart	Mill, Warwick		landfill	Ts-1914
	Oxford Mining Co., Inc.	Stone Creek	Warwick		landfill	Ts-H7
	Stone Creek Brick Co.	Stone Creek Brick Clay Mine	Jefferson		vitrified products	Ts-1557

**2004 SHALE COMPANIES WITH
SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Artisan Moulded Brick Co.	1	26,865	26,865
Bearcreek Clay Co.	2	41,241	41,241
Belden Brick Co.	2	228,814	228,814
Blue Jay Enterprises of Ts. Co., Inc.	2	7,284	7,284
Bowerston Shale Co.	1	62,891	62,891
Craigton Shale Co.	1	350	350
DiGeronimo Aggregates LLC	1	77,116	77,116
Dome Minerals, Inc.	1	25,272	25,272
Timothy P. Gleason	1	6,713	6,713
Glen-Gery Corp.	1	212,394	212,394
Hydraulic Press Brick Co.	1	253,234	253,234
Kimble Clay & Limestone Co.	1	1,500	1,500
Knox County Board of Commissioners	1	7,037	7,037
L & M Mineral Co.	1	52,895	52,895
Lafarge Corp.	1	166,081	166,081
Prairie Lane Sand & Gravel Co.	1	3,698	3,698
Rumpke Waste, Inc.	1	29,580	29,580
Stone Creek Brick Co.	1	3,940	3,940
Summitville Tiles, Inc.	1	23,473	23,473
Thompson Mining Co.	1	6,128	6,128
Walhonding Sand & Gravel	1	1,611	1,611
Waste Management	1	33,246	33,246
Wooster Aggregates, LLC	1	3,000	3,000
TOTAL: 23 companies	24	1,274,363	1,274,363

2004 OHIO DIRECTORY OF SHALE-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which a state mine number has not been assigned, a letter designation is used (example: Kx-K).

County	Name of operator	Name of mine	Township	Geological unit	Principal use	State mine number
Brown	Rumpke Waste, Inc.	Rumpke Waste, Inc.	Pleasant	Upper Ordovician	landfill	Bn-W
Columbiana	Dome Minerals, Inc. Summitville Tiles, Inc.	Dome Minerals, Inc. Summitcrest Inc.	Franklin Franklin	Conemaugh Group (Pennsylvanian) Conemaugh Group (Pennsylvanian)	common clay products common clay products	Ca-947 Ca-SU
Coshocton	Walhonding Sand & Gravel	Walhonding Valley Sand & Gravel	New Castle	Cuyahoga Formation (Mississippian)	lightweight aggregate	Cn-WL
Cuyahoga	Hydraulic Press Brick Co. DiGeronimo Aggregates LLC	Hydraulic Press Brick Co. DiGeronimo Aggregates	Independence	Chagrin (Devonian)	lightweight aggregate lightweight aggregate	Cya-19 ¹ Cya-19 ¹
Harrison	Bowerston Shale Co. Waste Management/	Bowerston Harrison Sanitary Landfill	Monroe Archer	Conemaugh Group (Pennsylvanian)	common clay products landfill	Hn-152 Hn-CD
Knox	Knox County Board of Commissioners	Apple Valley	Brown	Cuyahoga Formation (Mississippian)	construction	Kx-K
Licking	Bowerston Shale Co.	Hanover	Hanover	Logan Formation (Mississippian)	common clay products	Lg-501
Marion	Glen-Gery Corp.	Iberia Quarry	Tully	Bedford (Mississippian)	common clay products	Mn-7
Muskingum	Thompson Mining Co.	Pleasant Valley Limestone	Hopewell		unspecified	Mum-907
Paulding	Lafarge Corp.	Paulding Quarry	Crane	Silica Shale (Devonian)	cement manufacture	Pg-1
Perry	Bearcreek Clay Co.	County Rd. 7 Mine Nelson/Common Mine	Monday Creek Clayton	Middle Kittanning (Pennsylvanian)	common clay products common clay products	Py-338 Py-D1
Richland	Artisan Moulded Brick Co.	Artisan Moulded Brick Co.	Franklin, Weller	Cuyahoga Formation (Mississippian)	common clay products	Rd-R
Trumbull	Timothy P. Gleason	Springbrook	Mesopotamia		lightweight aggregate	TI-12
Tuscarawas	Belden Brick Co.	Moomaw Pit Belden Pit Shanesville Pit	Sugar Creek Sugar Creek Sugar Creek	Brookville & Tionesta (Pennsylvanian) Pennsylvanian Brookville (Pennsylvanian)	common clay products common clay products common clay products, construction	Ts-1517 Ts-1646 Ts-1939
	Blue Jay Enterprises of Ts. Co., Inc. Kimble Clay & Limestone L & M Mineral Co. Stone Creek Brick Co.	Blue Jay #1 Kimble Clay & Limestone Evans Heil Stone Creek Brick Shale Pit	Sandy Dover Rush Jefferson	Pennsylvanian Pennsylvanian	common clay products landfill common clay products vitrified products	Ts-BJ Ts-1818 Ts-1884 Ts-1558
Wayne	Prairie Lane Sand & Gravel Co. Wooster Aggregates, LLC Craighton Shale Co.	Prairie Lane Sand & Gravel Wooster Aggregates, LLC Craighton Shale Co.	Franklin Franklin Clinton	Mississippian Mississippian Mississippian	construction construction construction	We-11 ² We-11 ² We-25

¹This mine was operated January through September 2004 by Hydraulic Press Brick Co. and October through December 2004 by DiGeronimo Aggregates LLC.

²This mine was operated January through May 2004 by Prairie Lane Sand & Gravel Co. and June through December 2004 by Wooster Aggregates LLC.

**2004 OHIO DIRECTORY OF SALT-MINE AND SALT-BRINING-PLANT OPERATORS
REPORTING SALES OR PRODUCTION, BY COUNTY**

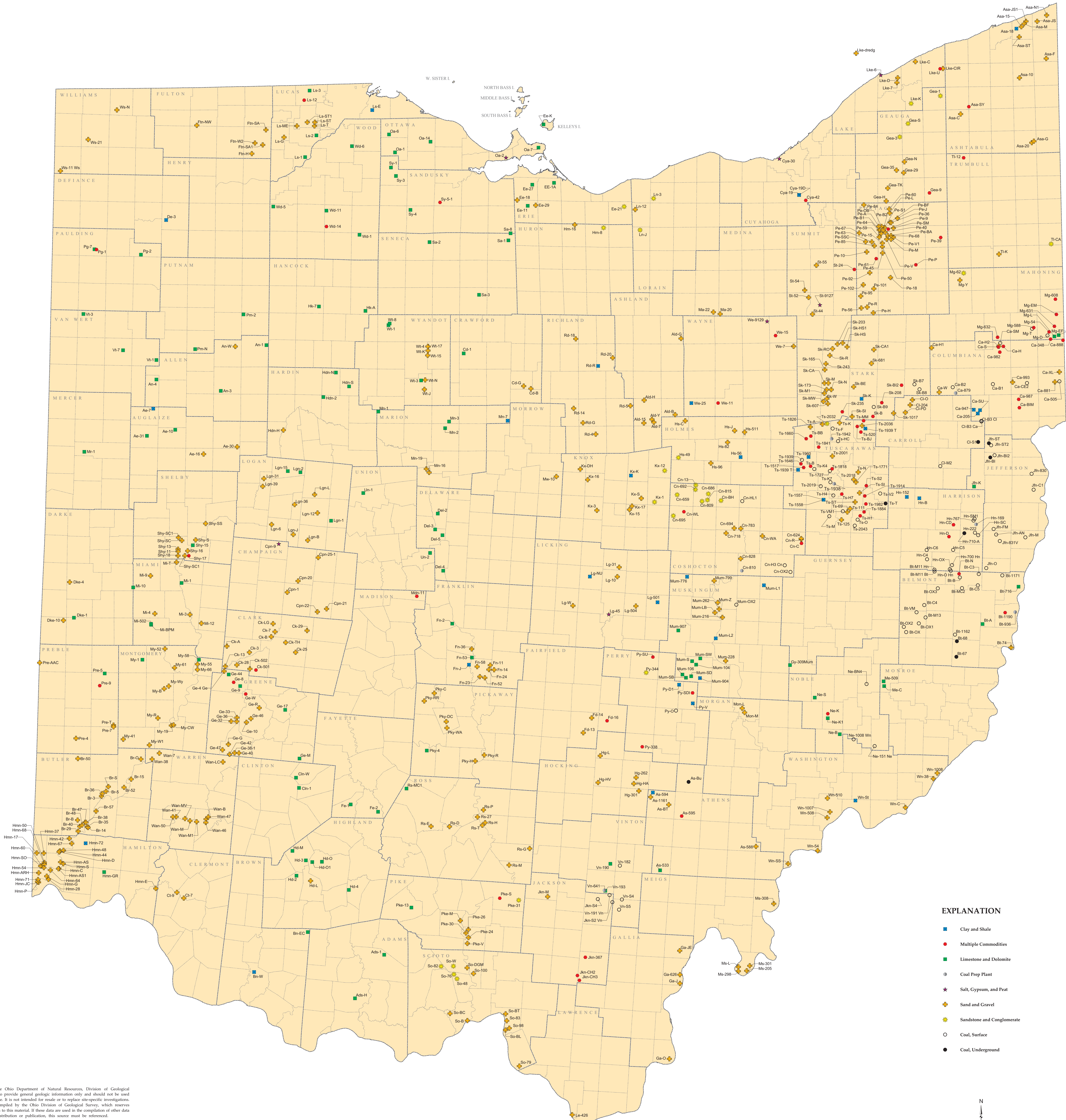
County	Name of operator	Name of mine	Township	Geological unit and product	State mine number
Cuyahoga	Cargill Incorporated	Cargill Salt, Inc.	City of Cleveland	Salina (Silurian)—rock salt	Cya-30
Lake	Morton International, Inc.	Fairport Mine	Painesville	Salina (Silurian)—rock salt	Lke-6
Licking	R. H. Penick Co.	R. H. Penick Co.	Newark	"Newburg" (Silurian)—natural brine	Lg-45
Summit	Cargill Incorporated	Cargill Incorporated	Coventry	Salina (Silurian)—artificial brine	St-9127
Wayne	Morton International, Inc.	Morton Salt Well Field	Milton	Salina (Silurian)—artificial brine	We-9129

**2004 OHIO DIRECTORY OF GYPSUM-MINE OPERATORS
REPORTING SALES OR PRODUCTION**

County	Name of operator	Name of mine	Township	Geological unit	State mine number
Ottawa	K West Group, LLC	K West/Port Clinton	Portage	Silurian	Oa-2

2004 MINERAL INDUSTRIES MAP OF OHIO

Mark E. Wolfe
GIS Database Administration by Joseph G. Wells
Cartography and GIS by Donovan M. Powers



EXPLANATION

- Clay and Shale
- Multiple Commodities
- Limestone and Dolomite
- Coal Prep Plant
- Salt, Gypsum, and Peat
- Sand and Gravel
- Sandstone and Conglomerate
- Coal, Surface
- Coal, Underground



10 5 0 10 20 30 40 Miles
10 5 0 10 20 30 40 50 Kilometers
SCALE 1:500,000

Projection of data is Ohio coordinate system,
south zone, North American Datum 1983.

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This map is based on operators listed in the 2004 Report on Ohio Mineral Industries and is intended for general reference. Locations are approximate and are based on permitting information at the Ohio Department of Natural Resources, Division of Mineral Resources Management. The letters and numbers opposite the symbols are the State mine numbers assigned to operators listed in the alphabetical directories of the Division of Geological Survey's Report on Ohio Mineral Industries. The operator and other information can be accessed by using the state mine number and commodity to refer to the directories of operators reporting sales or production, by county, in the Report on Ohio Mineral Industries. Operator and production information on industrial mineral operations that reported no production during the year can be accessed by searching the alphabetical directories for the State Mine number.

The interactive map is an improved tool for accessing company and production information and should be used if available.