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2009 Report on Ohio Mineral Industries: An Annual Summary of the State's Economic Geology

WITH

DIRECTORIES OF REPORTING
COAL AND INDUSTRIAL MINERAL OPERATORS

compiled by

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FOREWORD

The Ohio Department of Natural Resources, Division of Geological Survey is pleased to present the *2009 Report on Ohio Mineral Industries*. The Division's staff, led by chief compiler Mark Wolfe, has again introduced significant improvements to further strengthen this year's report, which we hope all will find useful. This annual report has been singled out by the USGS and other organizations many times as the best of its kind in the nation, and by constantly improving it, we hope to keep it that way.

Through the Division's nearly 175-year history, we have continuously worked to assist the extractive industries in their ability to find, evaluate, and produce the mineral and fuel commodities demanded by our society. We do this through our various mapping programs—glacial, bedrock, and subsurface—as well as our mapping of specific commodities, including oil and gas, coal, sand and gravel, and so on. We keep updated maps of where all mines and oil and gas wells are located, both current and historical. Via this report (and associated databases) and efforts such as our Production of Oil and Gas in Ohio (POGO) database, we maintain the most comprehensive data on the production of these commodities. The Division provides relevant research and it serves as the state's archive for geologic data and materials. We maintain a vast collection of rock core and samples, geologic analyses of all types, original submitted drilling records and geophysical logs, records of engineering borings, maps, aerial photographs, and surveys, and the list goes on. As technology has advanced, the Division has taken a leadership role in converting this information to digital format and providing it in state-of-the-art geographic information system (GIS) files, online interactive maps, and databases on portable media. All of this information is made available to all at minimal cost.

Our information and research investigations not only benefit the mineral and fuels industries but also the agencies that regulate these industries. In fact, because of the Division's long history, our data and maps have been provided to the regulatory agencies when they formed or began regulating different commodities or methods. We continue to work with industry and regulatory agencies as an unbiased research organization and data provider.

The Division collects geologic data of its own and from many other sources, in addition to the mineral and fuels industries. All of this information is used in compiling our various geologic maps and databases. This information is widely used for transportation projects and site assessments for new developments—from a new housing subdivision and shopping malls to siting wind turbines and major industrial sites. If not for this information availability, it would cost much more to develop many of these items. In effect, the Division assists not only the extractive industries, but also development of the buildings and other industries that rely on these minerals and fuels for their collective existence.

We're proud to do our part. I hope readers find this report useful and welcome any feedback.

Lawrence Wickstrom
Division Chief and State Geologist

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INTRODUCTION

Since its founding in 1837, the Ohio Department of Natural Resources (ODNR), Division of Geological Survey has been collecting data on the state's economic geology. Estimates of coal and industrial mineral production for Ohio prior to 1876 are found in various sources. Since 1876, the State of Ohio has required coal operators to submit annual production reports. Limestone, clay, and gypsum operators began reporting annually to the State of Ohio in 1885; sandstone and sand-and-gravel operators began reporting annually to the State of Ohio in the early 1900s; and complete reporting for all Ohio industrial minerals is available from 1942 to the present. Estimates of Ohio oil and gas production from 1885 to the present are available from the U.S. Geological Survey, U.S. Bureau of Mines reports, the American Gas Association, the ODNR Division of Mineral Resources Management, and the Ohio Oil and Gas Association. A 150-year history of fuel and non-fuel production in Ohio was published in 1959 (Ohio Division of Geological Survey, 1959).

The current reporting requirements are specified in Ohio Revised Code 1505.10. The chief of the Division of Geological Survey shall prepare and publish for public distribution annual reports containing a list of the operators of mineral resource extraction operations in the state; information on the location and commodity extracted at each operation; and information on employment, production, use, distribution, value, and other facts relative to the mineral resources of the state that may be of public interest. Each operator is required to submit to the Division of Geological Survey an accurate and complete annual report by the last day of January each year. The individual reporting forms are entered into a database from which the annual report is compiled and released to the public.

The *Report on Ohio's Fuel and Nonfuel Mineral Industries: An Annual Summary of the State's Economic Geology* (commonly referred to as the MIR) continually strives to improve the availability of data to the public. The 2009 report contains stratigraphic columns that illustrate the geologic relationships of Ohio's economic geology, and Web addresses to electronic information are provided for individuals seeking additional data outside the scope of the MIR. The importance of geology and the contributions of the fuel and nonfuel mineral industries to the overall state economy have been a focus of this year's report. The interactive map of mining operations (available on the Division of Geological Survey Web site: www.OhioGeology.com) has been updated with locations verified by aerial photography, where applicable, and also contains additional features that supplement the MIR. The Division of Geological Survey is committed to producing a high-quality annual report on Ohio's economic geology that is easily accessible, relevant, and helps support the ODNR Mission Statement: "To ensure a balance between wise use and protection of our natural resources for the benefit of all."

ILLUSTRATION OF REPORTED TONNAGE

The 2009 MIR uses a million short tons as a standard value for state, county, and large company production of geologic commodities. It is difficult to visualize the size

or volume that 1 million tons would occupy, so examples are provided to assist the reader in relating reported tonnages to the scale of more familiar objects. Ohio produces more crushed limestone and dolomite by tonnage than other minerals, so an average weight-to-volume ratio of 20,769,231 cubic feet of limestone/dolomite equals 1 million tons was used to calculate the following relationships:

- ♦ 1 million tons would fill approximately 10,000 railroad cars or 100 standard trains. If this was a single train, it would extend from Cincinnati to Columbus, Ohio.
- ♦ To place 1 million tons on a standard football field would require a pile that is in excess of 450 feet high. It would require approximately 12 million tons to completely fill Ohio's major football stadiums of the Cleveland Browns, Cincinnati Bengals, and Ohio Stadium in Columbus (see figure 1).

Every man, woman, and child in Ohio require approximately 8 tons of aggregates annually. Aggregates are essential for highway and building construction. Ohio's three major football stadiums need to be completely filled seven times annually to maintain the economy of the state, which has a population greater than 11 million.

ECONOMIC IMPACT OF OHIO'S EXTRACTIVE INDUSTRIES

The total value and employment data reported in the 2009 MIR are conservative estimates. Production values are based only on the cost of the raw material at the mine or wellhead, and employment numbers include only those persons directly responsible with producing and processing the commodities. Value-added and associated industries—such as transportation (truck, train, and barge), electric-generating stations that burn millions of tons of

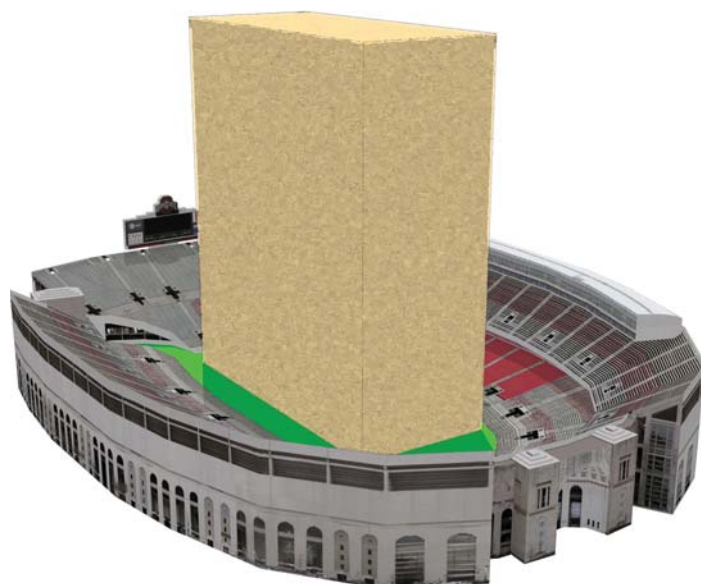


FIGURE 1.— To place 1 million tons on a standard football field would require a pile that is in excess of 450 feet high. Ohio Stadium in Columbus is approximately 136 feet in height.

Ohio coal, refined petroleum products, brick or ceramic manufacturing, cement manufacturing, specialty chemicals, glass manufacturing, and consulting firms—are not included in the total values reported in the MIR. The U.S. Census reported a value of \$6.1 billion for nonmetallics manufacturing (clay products, glass, cement, lime, etc.) in Ohio during 2007 (the latest year available). Additional industries directly associated with the economic geology of Ohio included in the 2007 U.S. Census report are petroleum refineries (\$12.5 billion); coal and petroleum products, including asphalt paving and roofing materials manufacturing (\$2.4 billion); oil and gas pipelines and related (\$854 million); and mining or oil-and-gas machinery manufacturing (\$373 million). The estimated total economic output of Ohio industries that directly use the geologic commodities produced in the state adds more than \$22 billion to values contained in the 2009 MIR, for a combined total of nearly \$25 billion.

Many companies (table 1) from throughout the state of Ohio (fig. 2) provide essential services or equipment for the mining and petroleum industries nationwide. These firms and many other Ohio companies employ thousands of people to support the nation’s mining and petroleum industries.

Ohio produces millions of tons of steel annually. The steel-making process uses large amounts of iron ore from Minnesota and Michigan, coal from Ohio and elsewhere in the United States, and accessory metals and industrial minerals from Ohio and around the world. The Ohio steel industry employs more than 20,000 people.

Ohio also is a major value-added processor of metallic and nonmetallic minerals produced elsewhere in the United States or imported from around the world. Minerals processed in the state during 2009 included aluminum, beryllium, cadmium, chromium, fluorospar, lead, magnesium, manganese, nickel, titanium, tungsten, vermiculite, and zircon. The largest producer of synthetic industrial diamonds in the country is located in central Ohio.

The recycling of industrial minerals and other mineral waste products in Ohio is an important component in the life cycles of geologic commodities. Dozens of companies recycle concrete, asphalt, shingles, glass cullet, fly ash, and steel slag. Recycling reduces landfill space needed for disposal; decreases transportation and handling of materials; reduces the cost of road base; and can be considered a renewable resource in an urban area, thus increasing

TABLE 1.—Selected companies headquartered in Ohio that manufacture products for or provide services to the mining and petroleum industries

Map Location ¹	Company Name	Product or Service
1	Austin Powder Company	Explosives and blasting services
2	Cincinnati Mine Machinery Company	Cutting chains
3	Eagle Crusher Company, Inc.	Impact and cone crushers
4	Gradall Industries, Inc.	Mine scalers and excavators
5	Gilson Company, Inc.	Aggregate, asphalt, and concrete testing equipment
6	Grasan Equipment Co., Inc.	Quarry equipment
7	Gorman-Rupp Company	Industrial pumps
8	Mettler-Toledo International, Inc.	Industrial scales and laboratory equipment
9	Midwestern Industries, Inc.	Vibrating screens
10	Multi Products Company, Inc.	Lift production equipment for oil and gas wells
11	Ohio Wire Cloth	Wire screens
12	Ohio Oil Gathering Corporation	Collects and transports locally produced oil and gas
13	Rhodes Manufacturing Inc.	Frac tanks for oil and gas wells
14	Robbins Company	Boring machines
15	Rohr Corporation	Dredges
16	Tiger General LLC	Service rigs for oil and gas wells

¹See location map in figure 2.

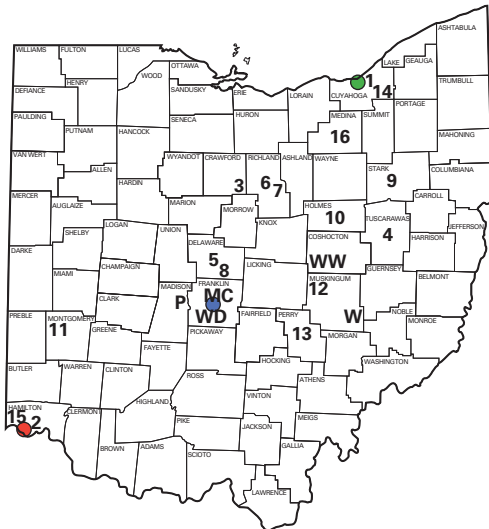


FIGURE 2.—Locations of selected companies producing equipment or providing services for the mining or petroleum industries (see table 1). Also shows the locations of areas reclaimed after mining activities ceased that are now used for other purposes, as well as the location of cities mentioned in the text. ● = Cincinnati; ● = Columbus; ● = Cleveland; MC = Marble Cliff; P = Prairie Oaks Metro Park; W = The Wilds; WD = Watermark Drive; WW = Woodbury Wildlife Area.

the life spans of existing quarries. Reliable data on the amount of mineral recycling in Ohio is lacking, but the U.S. Geological Survey estimates that 5 percent of the aggregates consumed nationally are recycled material (USGS, 2000). Ohio produces large amounts of steel slag and fly ash, along with substantial quantities of concrete, asphalt products, and glass; based on the nearly 90 million tons of aggregate consumed in Ohio during 2009, it is estimated that approximately 5 million tons of recycled aggregate is used annually in the state.

The reclamation and adaptive reuse of mined-out areas also is a critical component of Ohio's mining industry. These post-mining land uses are particularly important in a densely populated state where available land is vital for housing, recreation, wildlife, agriculture, and business development. Following are some notable examples of reclaimed areas currently used for other purposes:

- ♦ The Wilds (fig. 2), an international center for the preservation of wild animals is located on 10,000 acres of reclaimed surface coal mines in Muskingum County. Cutting-edge conservation science and educational programs are combined with visitor experiences that are unique in North America.
- ♦ The ODNR Division of Wildlife manages more than 135,000 acres of public land in the state. The majority of that land was previously mined for coal. These large contiguous tracts of land, such as the 20,000-acre Woodbury Wildlife Area (fig. 2) in Coshocton County, would

not have been available for the state to purchase for public benefit if the coal companies had not originally assembled the properties for mining.

- ♦ Prairie Oaks Metropark (fig. 2), west of Columbus, is composed primarily of reclaimed sand-and-gravel pits. The park preserves 2,000 acres along the Big Darby Creek, a State and National Scenic River, in an area of suburban encroachment.
- ♦ The office complex located on Watermark Drive (fig. 2), immediately west of downtown Columbus, is constructed on land previously mined for sand and gravel. The nearly 100-acre lake is a focal point of the project. There are also upscale apartments, condominiums, and homes constructed near abandoned, water-filled quarries in Marble Cliff (fig. 2), west of Columbus. Quarry lakes add distinction to the housing developments.

The mining and processing of fuel and nonfuel minerals in Ohio is an important component of a vibrant state economy. The 2009 Gross Domestic Product of Ohio was approximately \$470 billion; if Ohio was a country, it would rank as the world's 23rd largest economy, behind Sweden and ahead of Saudi Arabia. Ohio has a heritage of heavy industry and manufacturing, along with excellent air, railroad, highway, and port facilities that help provide competitive products and services around the world. The 2009 MIR summarizes the importance of this economic geology to the continuing financial success of Ohio and its citizens.

2009 OHIO ECONOMIC GEOLOGY IN BRIEF

Reports were filed in 2009 for 159 coal-mining operations, including 5 mines with their own coal-washing facilities. Coal production was reported from 88 of these 159 operations. Reports also were filed for 17 separate coal-washing plants and associated facilities. Of 527 industrial-mineral-mining operations known to be operating in 2009, 397 operations were active. A total of 24 mines reported production of multiple mineral commodities, including coal and/or one or more industrial minerals. There were 438 new wells completed for oil and gas in 2009, of which 398 were productive and 40 were dry.

The total tonnage of fuel and nonfuel minerals produced in Ohio during 2009, not including hydrocarbons, was 105,881,711 short tons or approximately 9.2 tons per capita. In 2009 the total value¹ of coal was \$1,104,192,026; the value of oil and gas was \$665,439,649; and the total value¹ of all industrial minerals was \$850,033,331 (table 2, fig. 3). The combined total value of fuel and nonfuel minerals produced in Ohio during 2009 was \$2,619,665,006 or approximately \$227 per capita. Reported and estimated total employment in the extractive industries of Ohio in 2009 was more than 10,000 people.

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 2.—2009 Mineral sales and production in Ohio

Commodity	Production ¹	Sales ²	Value ³	Change in value from 2008 (percent)
Coal	27,324,521 tons	26,149,112 tons	\$1,104,192,026	+7.6
Limestone and dolomite	42,309,603 tons	44,433,734 tons	\$391,370,744	-10.5
Sand and gravel	28,190,712 tons	28,101,886 tons	\$183,292,778	-8.2
Salt	6,062,609 tons	5,957,663 tons	\$233,262,331	+7.1
Sandstone and conglomerate	1,152,888 tons	1,113,099 tons	\$31,085,335	-24.5
Clay	331,024 tons	378,464 tons	\$3,885,593	-42.8
Shale	508,285 tons	507,980 tons	\$7,122,866	-38.3
Peat	2,069 tons	2,069 tons	\$13,684	+23.5
Gas	88,824,419 MCF ⁴	⁵	\$387,166,839	-53.3
Oil	5,008,609 barrels	⁵	\$278,272,810	-46.6

¹The 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. Timely completion of this report requires that when production and sales information are not available, production figures may be gathered from the ODNR Division of Mineral Resources Management or be estimated or be excluded.

²Includes material for captive use.

³The FOB value of industrial minerals sold was estimated for mines that 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.

⁴Thousand cubic feet.

⁵Figure not available.

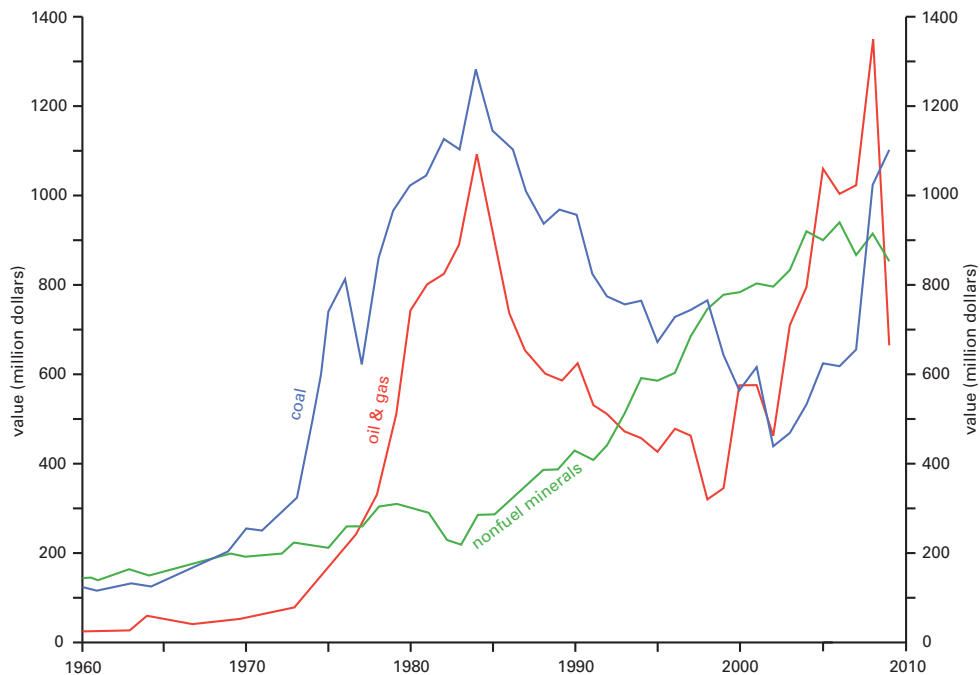


FIGURE 3.—Value of coal, nonfuel minerals, and oil and gas in Ohio.

COAL

(See also Appendix A.)

Coal was produced by 32 companies from 88 mines in 17 Ohio counties during 2009, and total production increased 5.0 percent from 2008 (Wolfe, 2009), totaling 27,324,521 tons (table 3). Tonnage from underground production exceeded tonnage from surface production, continuing a trend that began in 1995: 17,267,575 tons (63.2 percent of total production) were produced from 10 underground mines, and 10,056,946 tons (36.8 percent of total production) were produced from 78 surface mines (table 3). Of 26 coal-producing states, Ohio ranked eleventh in 2009. The top five states, in descending order of production, were Wyoming (431.1 million tons), West Virginia (137.0 million tons), Kentucky (107.4 million tons), Pennsylvania (58.0 million tons), and Montana (39.5 million tons; US DOE, 2010).

The five leading counties for 2009 coal production were Belmont, Monroe, Harrison, Jefferson, and Perry Counties (table 4 and fig. 4); these counties produced 81.9 percent of the 2009 total production. The two largest producing mines in the state also are ranked in the top 50 largest underground operations in the United States; these mines are located in Belmont and Monroe Counties. The third largest underground mine and the largest surface operation in Ohio are located in Harrison County. A new underground mine began production in Meigs County during 2009; this was the first coal produced in the county since 2002. Guernsey County also recorded its first coal production since 2002.

A total of 26,149,112 tons of coal were sold in 2009; total value² was \$1,104,192,026 (fig. 5). This was the second consecutive year that coal values were greater than \$1 billion, which had not happened since the late 1960s. The average price per ton of all coal sold was \$42.23; surface-mined coal averaged \$40.85 per ton, and underground-mined coal averaged \$43.02 (table 9). Ohio coal is used primarily to generate electricity; 87 percent of the state's electricity is produced by burning coal. Ohio coal is also used in commercial, institutional, and industrial applications, while minor amounts are exported.

In underground mining, 62.9 percent of the coal was produced by longwall mining and 37.1 percent was mined by continuous miner; no coal was produced by conventional mining in 2009. In surface operations, 78.1 percent of the coal was mined by conventional surface methods, 10.5 percent was mined by augering, and 11.4 percent was mined by highwall miner. This is the first year of significant coal production in Ohio using highwall mining techniques. Highwall miners use continuous miners to cut a series of rectangular-shaped entries into an existing highwall. Entries are generally 11 feet (ft) wide and can penetrate up to 1,600 ft into a hillside. Augers at the mine face feed the coal to the rear of the highwall miner. All mining is done by remote control; no employees spend time underground. (See the following for more information concerning highwall mining: www.coaleducation.org/technology/Surface/HWM.htm).

The Pennsylvanian-age Monongahela Group Pittsburgh (No. 8) coal was the most heavily mined seam, followed by the Allegheny Group Middle Kittanning (No. 6), Monongahela Group Meigs Creek (No. 9), Allegheny Group Upper Freeport (No. 7), and Lower Freeport (No. 6a) seams (see fig. 6 and table 7). Coal produced from these five seams constituted 90.5 percent of the total 2009 production. Mining of the Pittsburgh (No. 8) in eastern Ohio since 1816 has produced more than 1 billion tons of coal (Crowell, 1995).

A total of 19,564,399 tons of washed coal was reported in 2009. Reports from 11 coal-washing plants indicate an average 34.4 percent loss in washing.

Rail was the primary means of coal disposition, carrying 56.8 percent of the total sales in 2009; trucking transported 40.7 percent; and water carried 2.5 percent (table 8). Reported disposition considers only coal transported from the producing mine. For instance, most of the 8.5 million tons of coal delivered to the Gavin electric-generating station in 2008 came from the Powhatan No. 6 underground operation in Belmont County via Ohio River terminal supplied by rail from the mine mouth (Murray and others, 2010). A total of 856,431 tons (3.1 percent) of the coal produced was reported as stored.

The total average annual employment reported in 2009 was 2,858 employees; 2,149 of these were production employees (table 10). Production employees worked an average of 212 days producing coal in 2009. The average annual wage earned by all production employees was \$62,607 based on those employees for whom wages were reported. The average annual wage for surface-mine production employees was \$53,832, and the average annual wage for underground-mine production employees was \$67,093. Wages earned by all employees totaled \$186,267,866 in 2009 (table 11).

²Includes reported and estimated values. See footnote 1, p. 4.

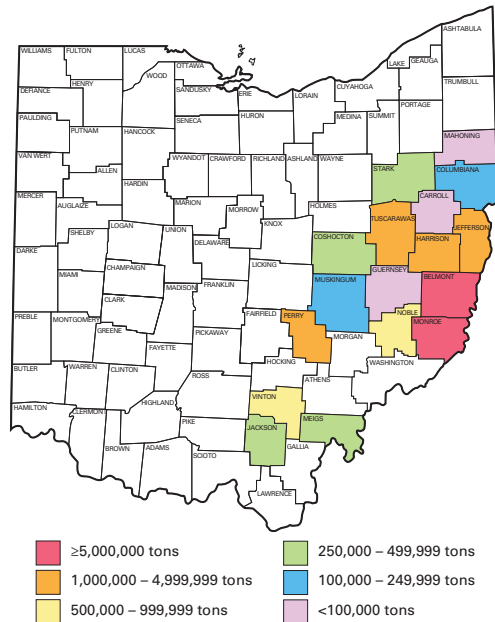


FIGURE 4.—Coal production in Ohio in 2009, by county.

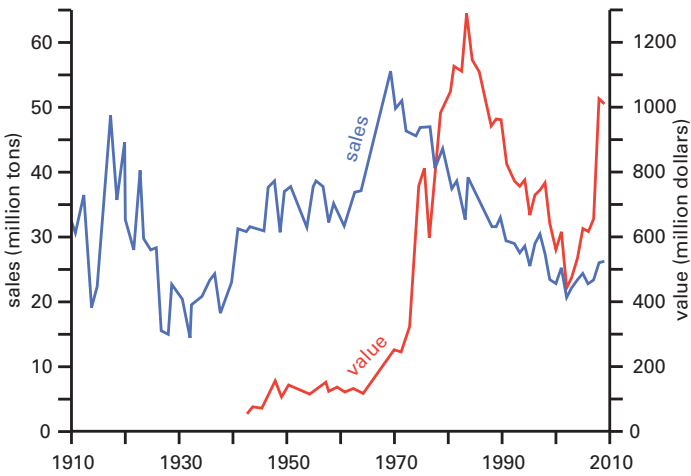


FIGURE 5.—Sales and value of coal in Ohio.

SYSTEM	GROUP	LITHOSTRATIGRAPHIC UNITS
Permian	Dunkard	Washington (No. 12) coal
Pennsylvanian	Monongahela	Waynesburg (No. 11) coal Uniontown (No. 10) coal Meigs Creek (No. 9) coal Pomeroy-Redstone (No. 8a) coal Pittsburgh (No. 8) coal
	Conemaugh	Ames marine zone Harlem coal Brush Creek marine zone Mahoning (No. 7a) coal
	Allegheny	Upper Freeport (No. 7) coal Lower Freeport (No. 6a) coal Middle Kittanning (No. 6) coal Lower Kittanning (No. 5) coal Vanport marine zone Clarion (No. 4a) coal Newland-Brookville (No. 4) coal
	Pottsville	Upper Mercer (No. 3a) coal Lower Mercer (No. 3) coal Quakertown (No. 2) coal Sharon (No. 1) coal

FIGURE 6.—Stratigraphic column of coals mined in Ohio during 2009 (black), other significant coal beds (red), and associated key beds (blue) used for stratigraphic correlation. Modified from Larsen (1991, fig. 2), Collins (1979, fig. 3), and Brant and Delong (1960, table 9).

TABLE 3.—2009 Ohio coal production, by county and mining method

County ¹	All methods (short tons)	Total number of mines	Underground				Surface				
			Number of mines reporting	Production (short tons)			Number of mines reporting	Production (short tons)			
				Total	Longwall	Continuous miner		Total	Strip	Auger	Highwall
Belmont	8,977,674	13	2	7,585,073	6,453,606	1,131,467	11	1,392,601	852,645	539,956	
Carroll	85,333	2	1	5,739		5,739	1	79,594	79,594		
Columbiana	125,213	6					6	125,213	125,213		
Coshocton	386,438	1					1	386,438	189,047	197,391	
Guernsey	20,079	1					1	20,079	17,383	2,696	
Harrison	3,327,188	10	1	1,493,719		1,493,719	9	1,833,469	1,822,590	10,879	
Jackson	475,561	4					4	475,561	475,561		
Jefferson	2,989,376	8	2	794,058		794,058	6	2,195,318	983,393	60,597	1,151,328
Mahoning	8,143	2					2	8,143	8,143		
Meigs	296,049	1	1	296,049		296,049					
Monroe	5,111,400	1 ²	1	5,111,400	4,410,157	701,243					
Muskingum	137,370	1					1	137,370	103,973	33,397	
Noble	741,894	6					6	741,894	724,404	17,490	
Perry	1,978,726	4	2	1,379,426		1,379,426	2	599,300	599,300		
Stark	415,596	8					8	415,596	393,545	22,051	
Tuscarawas	1,654,921	17	1	602,111		602,111	16	1,052,810	883,144	169,666	
Vinton	593,560	4					4	593,560	593,560		
TOTAL	27,324,521	88	10	17,267,575	10,863,763	6,403,812	78	10,056,946	7,851,495	1,054,123	1,151,328

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

²This mine extends into Monroe County from Belmont County and is not included in the total number of mines.

TABLE 4.—2009 Ohio coal production and sales, by county, in descending order of production

County	Production (short tons)	Sales (short tons)
Belmont	8,977,674	8,364,963
Monroe	5,111,400	4,953,345
Harrison	3,327,188	3,334,256
Jefferson	2,989,376	2,519,504
Perry	1,978,726	2,006,946
Tuscarawas	1,654,921	1,654,921
Noble	741,894	741,894
Vinton	593,560	586,150
Jackson	475,561	475,561
Stark	415,596	415,596
Coshocton	386,438	386,438
Meigs	296,049	277,230
Muskingum	137,370	137,370
Columbiana	125,213	125,213
Carroll	85,333	85,333
Guernsey	20,079	20,079
Mahoning	8,143	4,217
Athens		60,096
TOTAL	27,324,521	26,149,112

TABLE 5.—2009 Ohio coal production, by production size group and change from 2008

Production size group	2009		Change from 2008 (short tons)
	Number of mines reporting	Production (short tons)	
1,000,000 tons and over	3	14,190,192	−902,558
500,000 to 999,999 tons	7	5,287,907	3,923,921
250,000 to 499,999 tons	10	3,688,187	−1,507,456
100,000 to 249,999 tons	16	2,735,935	−429,592
50,000 to 99,999 tons	11	787,623	45,208
25,000 to 49,999 tons	8	302,601	13,581
Less than 25,000 tons	33	332,076	20,824
TOTAL	88	27,324,521	1,288,928

TABLE 6.—2009 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
Belmont	8,977,674	767,356	843,540	836,173	564,305	766,664	784,157	817,841	625,315	718,828	807,773	744,545	701,177
Carroll	85,333	6,328	6,494	6,059	4,860	6,015	10,157	7,275	5,065	4,406	8,000	11,377	9,297
Columbiana	125,213	17,248	15,427	16,407	16,799	9,229	9,095	8,247	4,972	14,180	8,298	3,040	2,271
Coshocton	386,438	40,777	45,230	39,347	33,983	28,136	39,352	41,455	31,812	20,655	21,116	21,957	22,618
Guernsey	20,079										517	7,000	12,562
Harrison	3,327,188	250,843	260,922	276,784	248,777	257,681	290,203	293,952	293,791	287,263	285,176	300,018	281,778
Jackson	475,561	43,129	45,926	45,191	34,571	35,202	27,675	38,883	41,420	40,201	31,623	46,206	45,534
Jefferson	2,989,376	261,627	290,555	305,594	297,390	288,914	310,046	276,000	231,186	268,468	243,324	98,248	118,024
Mahoning	8,143	1,139	608			1,674	1,022				1,650	2,050	
Meigs	296,049		8,062	9,081	4,603	22,874	26,999	25,803	22,216	35,869	37,553	37,916	65,073
Monroe	5,111,400	259,005	479,448	520,641	492,725	482,539	412,983	310,211	442,280	450,020	423,354	422,076	416,118
Muskingum	137,370	11,211	11,437	10,059	15,384	9,570	12,196	10,718	15,294	13,459	14,433	8,946	4,663
Noble	741,894	59,492	63,912	66,757	62,080	39,494	67,763	62,977	70,496	60,320	65,684	60,283	62,636
Perry	1,978,726	171,701	185,976	197,620	195,164	150,205	178,831	152,534	115,240	140,981	145,058	154,710	190,706
Stark	415,596	45,537	50,831	57,463	55,801	48,637	40,746	25,818	16,444	25,293	18,848	14,650	15,528
Tuscarawas	1,654,921	129,678	147,583	172,210	116,225	125,938	104,660	130,620	149,090	130,873	132,160	153,877	162,007
Vinton	593,560	60,823	61,594	64,723	53,686	48,166	46,523	39,556	43,000	52,626	44,353	41,084	37,426
TOTAL	27,324,521	2,125,894	2,517,545	2,624,109	2,196,353	2,320,938	2,362,408	2,241,890	2,107,621	2,263,442	2,288,920	2,127,983	2,147,418

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

TABLE 7.—2009 Ohio coal production,

County ¹	Production									
	Total annual	Lower Mercer (No. 3)	Upper Mercer (No. 3a)	Tionesta	Brookville (No. 4)	Clarion (No. 4a)	Lower Kittanning (No. 5)	Middle Kittanning (No. 6)	Lower Freeport (No. 6a)	
Belmont	8,977,674									
Carroll	85,333							40,917	32,279	
Columbiana	125,213									
Coshocton	386,438							386,438		
Guernsey	20,079									
Harrison	3,327,188							1,619	1,493,719	
Jackson	475,561				102,000	35,112	275,362	22,969		
Jefferson	2,989,376									
Mahoning	8,143				309		7,834			
Meigs	296,049									
Monroe	5,111,400									
Muskingum	137,370							137,370		
Noble	741,894									
Perry	1,978,726						312,671	1,245,156		
Stark	415,596				165,883		189,443	60,270		
Tuscarawas	1,654,921		15,431		40,918		265,930	1,036,249		
Vinton	593,560					331,121	219,169	22,648		
TOTAL	27,324,521	0	15,431	0	309,110	366,233	1,270,409	2,953,636	1,525,998	

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

[illegible]

TABLE 8.—2009 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	60,096	60,096					
Belmont	13	8,364,963	6,160,034		2,204,929			531,114
Carroll	2	85,333			85,333			3,372
Columbiana	6	125,213			125,213			
Coshocton	1	386,438			386,438			
Guernsey	1	20,079			20,079			
Harrison	10	3,334,256	1,574,597		1,759,646		13	8,183
Jackson	4	475,561		52,458	423,103			
Jefferson	7	2,519,504			2,519,504			156,294
Mahoning	2	4,217			4,217			3,925
Meigs	1	277,230		277,230				18,819
Monroe	1	4,953,345	4,953,345					
Muskingum	1	137,370			137,370			
Noble	6	741,894			741,894			
Perry	4	2,006,946	1,999,824		7,122			113,651
Stark	8	415,596			415,596			
Tuscarawas	18	1,654,921	120,000		1,534,921			
Vinton	4	586,150		308,457	277,693			21,073
TOTAL	89	26,149,112	14,867,896	638,145	10,643,058		13	856,431

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 county-specific information was provided by the operator.

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

TABLE 9.—2009 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	60,096	2,243,384	37.33	1	60,096	2,243,384	37.33				
Belmont	13	8,364,963	344,018,364	41.13	2	6,967,737	288,222,961	41.37	11	1,397,226	55,795,403	39.93
Carroll	2	85,333	3,024,930	35.45	1	5,739	302,019	52.63	1	79,594	2,722,911	34.21
Columbiana	6	125,213	6,329,614	50.55					6	125,213	6,329,614	50.55
Coshocton	1	386,438	15,573,438	40.30					1	386,438	15,573,438	40.30
Guernsey	1	20,079	809,201	40.30					1	20,079	809,201	40.30
Harrison	10	3,334,256	142,886,118	42.85	1	1,500,787	59,437,000	39.60	9	1,833,469	83,449,118	45.51
Jackson	4	475,561	21,761,411	45.76					4	475,561	21,761,411	45.76
Jefferson	7	2,519,504	97,632,562	38.75	2	794,058	25,269,071	31.82	5	1,725,446	72,363,491	41.94
Mahoning	2	4,217	61,693	14.63					2	4,217	61,693	14.63
Meigs	1	277,230	19,858,256	71.63	1	277,230	19,858,256	71.63				
Monroe	1	4,953,345	239,944,092	48.44	1	4,953,345	239,944,092	48.44				
Muskingum	1	137,370	5,536,011	40.30					1	137,370	5,536,011	40.30
Noble	6	741,894	20,933,738	28.22					6	741,894	20,933,738	28.22
Perry	4	2,006,946	76,682,563	38.21	2	1,407,646	52,530,831	37.32	2	599,300	24,151,732	40.30
Stark	8	415,596	11,615,203	27.95					8	415,596	11,615,203	27.95
Tuscarawas	17	1,654,921	63,411,168	38.32	1	602,111	25,000,000	41.52	16	1,052,810	38,411,168	36.48
Vinton	4	586,150	31,870,280	54.37					4	586,150	31,870,280	54.37
TOTAL	89	26,149,112	1,104,192,026	42.23	11	16,568,749	712,807,614	43.02	78	9,580,363	391,384,412	39.73

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

²The FOB value of coal sold was estimated for those mines that 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.

TABLE 10.—2009 Ohio coal-mine employment, by occupational group and month¹

Occupational group	Number of employees												
	Total annual ²	January	February	March	April	May	June	July	August	September	October	November	December
Production workers	2,149	2,101	2,175	2,229	2,176	2,188	2,211	2,149	2,172	2,160	2,091	2,073	2,068
Nonproduction workers	709	661	665	710	695	712	752	715	752	735	711	715	682
TOTAL	2,858	2,762	2,840	2,939	2,871	2,900	2,963	2,864	2,924	2,895	2,802	2,788	2,750

¹Employment was estimated for mines not reporting employment.²Represents the average number of employees for the year.

TABLE 11.—2009 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	\$572,317			\$572,317
Belmont	\$60,730,230	\$33,621,186	\$5,563,133	\$21,545,911
Carroll	\$2,497,834	\$1,897,132	\$540,702	\$60,000
Columbiana	\$1,575,020		\$569,810	\$1,005,210
Coshocton	\$3,957,790		\$1,187,766	\$2,770,024
Guernsey	\$760,129		\$760,129	
Harrison	\$20,593,995	\$10,862,400	\$6,898,912	\$2,832,683
Jackson	\$2,175,131		\$1,995,896	\$179,235
Jefferson	\$10,922,473	\$3,231,494	\$5,375,813	\$2,315,166
Mahoning	\$248,654		\$122,254	\$126,400
Meigs	\$6,371,234	\$5,401,819		\$969,415
Monroe	\$37,116,164	\$27,116,164		\$10,000,000
Muskingum	\$1,094,459		\$988,115	\$106,344
Noble	\$3,448,457		\$3,098,363	\$350,094
Perry	\$13,179,221	\$8,183,061	\$2,461,362	\$2,534,798
Stark	\$1,703,530		\$1,518,433	\$185,097
Tuscarawas	\$12,572,117	\$5,092,684	\$4,965,704	\$2,513,729
Vinton	\$6,749,111		\$3,089,681	\$3,659,430
TOTAL	\$186,267,866	\$95,405,940	\$39,136,073	\$51,725,853

¹For those operations reporting activity in more than one county, wage and salary payments were evenly split between the counties involved unless county-specific information was provided by the operator.²For those operations reporting only a total wage and salary payment for 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

(See also Appendix B.)

In 2009 industrial minerals, other than mineral fuels, were produced in a total of 85 Ohio counties, where 342 companies operated 527 industrial-mineral mining operations. Industrial minerals were produced or sold by 254 companies from 397 active operations. The combined value of all nonfuel industrial minerals sold in 2009 was \$850,033,331 (table 12).

The production of multiple commodities, including coal and/or one or more industrial minerals, is important to successful mine operations in many areas of Ohio. The most common multiple operations are sand and gravel with clay; coal along with clay, shale, or limestone; and limestone with associated clay or shale. The production of sand and gravel along with clay is often located in the glaciated portion of northern and western Ohio where deposits of sand and gravel are often overlain by clay-rich glacial tills. The Pennsylvanian-age cyclic sedimentation in eastern Ohio often includes coals, clays, shales and limestones in close proximity, allowing for economic recovery of multiple commodities. (The following links provide more information on the general bedrock and glacial geology of Ohio: www.dnr.state.oh.us/Portals/10/pdf/BG-1_8.5x11.pdf and www.dnr.state.oh.us/Portals/10/pdf/glacial.pdf.)

The total average annual employment reported in 2009 for industrial mineral operations was 3,625 people (2,583 production employees and 1,042 nonproduction employees; table 13). Total wages for all employees at industrial mineral operations in 2009 were \$153,109,125. The average annual wage, based on those employees for whom wages were reported, was \$42,237.

TABLE 12.—2009 Value of Ohio industrial minerals

Commodity	Sales (tons)	Change from 2008 (tons/percent)	Value ¹ (dollars)	Percent of total value
Limestone and dolomite	44,433,734	-13,792,925/-23.7	\$391,370,744	46.0
Sand and gravel	28,101,886	-5,110,104/-15.4	\$183,292,778	21.6
Salt	5,957,663	+189,647/+3.3	\$233,262,331	27.4
Sandstone and conglomerate	1,113,099	-406,205/-26.7	\$31,085,335	3.7
Clay	378,464	-329,059/-46.5	\$3,885,593	0.5
Shale	507,980	-353,332/-41.0	\$7,122,866	0.8
Peat	2,069	-9/-0.4	\$13,684	0.0
TOTAL	80,494,895	-19,801,987/-19.7	\$850,033,331	100.0

¹The FOB value of industrial minerals sold was estimated for those mines that 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 13.—2009 Employment at Ohio industrial-mineral operations, by county and commodity

County ¹	Total employees ²	Number of employees ³												Multiple commodities	
		Total ²		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt	
		Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production
Adams	24	19	5	19	5										
Allen	26	17	9	13	9	4									
Ashland	25	22	3			22	3							1	1
Ashtabula	14	11	3			10	2								
Athens	7	6	1			6	1								
Auglaize	17	13	4	10	3	2	1		1	0					
Belmont	26	21	5	21	5										
Brown	32	23	9	23	9										
Butler	82	47	35			47	35								
Carroll	6	5	1			1	1	4							
Champaign	19	11	7			11	7								
Clark	52	34	18			34	18								
Clermont	43	27	16	23	10	4	6								
Clinton	57	42	15	42	15										
Columbiana	42	32	10			14	8			6				12	2
Coshocton	20	11	9			5	6	2						2	1
Crawford	14	14		14											
Cuyahoga	156	96	60											2	4
Darke	21	18	3	18	3										
Defiance	11	10	1			7	1		3	0					
Delaware	20	20		20											
Erie	94	78	16	65	16			13							
Fairfield	7	4	3			4	3								
Fayette	18	12	6	12	6										
Franklin	121	82	39	32	9	50	30								
Fulton	12	8	4			8	4								
Gallia	1	1				1									
Geauga	62	49	13			3		46	13						
Greene	67	48	19	19	7	21	11							8	1
Guernsey	17	13	4	13	4										
Hamilton	102	75	26			75	26								
Hancock	8	8		8											
Hardin	13	5	9	5	9										
Harrison	26	19	7	11	7							8			
Highland	34	28	7	16	7										
Hocking	21	17	4			12	4								
Holmes	24	12	12			17	4								
Huron	4	4				12	12	4							
Jackson	27	25	2												
Knox	45	34	10			21	9	13	1	1	2			24	
Lake	172	109	63					2	2					107	61
Licking	40	27	14			6	5							8	8
Logan	43	22	21	15	18	7	3			2	1	7		4	

TABLE 13.—2009 Employment at Ohio industrial mineral operations, by county and commodity (cont.)

County ¹	Number of employees ³																
	Total employees ²	Total ²		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt		Multiple commodities	
		Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production	Production	Non Production
Lorain	2	2	1														
Lucas	50	35	16	32	14		4	1	2	2							
Madison	5	4	1														
Mahoning	71	47	24	27	22				12	1	1					7	1
Marion	17	15	3	6				3									
Medina	22	20	2				20	2									
Meigs	33	18	14				18	14									
Mercer	13	8	5	8	5												
Miami	78	50	28	41	22		9	6									
Monroe	14	8	6	8	6												
Montgomery	88	55	33	24	12		31	21									
Morgan	1	1					1										
Morrow	14	9	4				9	4									
Muskingum	79	61	18	37	13		15	1	4	1					5		3
Noble	6	5	1	5	1												
Ottawa	97	53	44	53	44												
Paulding	35	26	10	22	8											4	2
Perry	35	30	5						18	2						12	3
Pickaway	71	53	18	24	9		29	9									
Pike	70	47	23	24	12		12	5	12	6							
Portage	83	66	17				63	17								3	
Preble	56	32	24	10	2		19	20								3	2
Putnam	20	14	6	14	6												
Richland	38	30	8				30	8									
Ross	19	12	7				12	7								7	4
Sandusky	208	180	28	172	24												
Scioto	23	17	6				13	5	4	1							
Seneca	75	52	23	52	23											6	2
Shelby	15	11	3				5	1								6	3
Stark	101	77	24				69	21			2			3			
Summit	12	6	6				3	3									
Trumbull	10	4	6														
Tuscarawas	125	92	32				44	12	2		3	2	3		2	41	17
Union	29	16	13	16	13												
Van Wert	17	11	6	11	6												
Vinton	9	9		9													
Warren	39	29	10				29	10									
Washington	56	39	17				39	17									
Wayne	63	43	21				6	2						33	17	4	2
Williams	2	2														6	1
Wood	83	58	25	52	24		2										
Wyandot	71	57	14	45	8		12	6									
TOTAL	3,625	2,583	1,042	1,092	414		904	392	135	28	8	8	8	242	138	159	55

¹For those operations reporting activity in more than one county, the number of employees was rounded and evenly split between the counties, unless county-specific information was provided by the operator.

²Any tally inconsistencies are due to computer rounding of fractions produced by partial-year employment.

³³Employment is not included for mines that were owner operated.

LIMESTONE AND DOLOMITE

(See also Appendix C.)

Limestone and dolomite were reported sold or produced by 53 companies at 103 operations in 47 Ohio counties during 2009 (fig. 7). Estimated sales of limestone and dolomite totaled 44,433,734 tons, down 23.7 percent from 2008 (Wolfe, 2009; fig. 8). Erie, Wyandot, Ottawa, Franklin, and Sandusky Counties accounted for 35.2 percent of those sales (table 15). Reported known production totaled 42,309,603 tons.

Lime produced from Ohio limestone and dolomite totaled 1,045,411 tons in 2009 and came from four operations in Ottawa, Sandusky, and Seneca Counties (table 14). Ohio ranks fourth nationally in the production of lime out of 29 producing states and Puerto Rico. The top five states, in descending order of lime production, are Missouri, Alabama, Kentucky, Ohio and Texas. Out of 48 producing states, Ohio ranks eleventh in the production of crushed stone (which includes crushed sandstone). The states leading Ohio in the production of crushed stone, in descending order, are Texas, Pennsylvania, Missouri, Illinois, California, Florida, Virginia, Kentucky, Georgia, and Indiana (USGS, 2010a).

The total value³ of limestone and dolomite sold in 2009 was \$391,370,744 (fig. 8). Average price per ton was \$8.81.

Devonian-age and Silurian-age carbonates located in the western half of Ohio are the primary geologic units producing crushed stone. Pennsylvanian-age and Mississippian-age limestones are important sources of aggregate in local markets of eastern Ohio (Lamborn, 1951; Stout, 1941), particularly the Youngstown (Mahoning County) and Zanesville areas (Muskingum County). The top five geologic units in Ohio producing limestone or dolomite during 2009, in order of largest tonnage, were Devonian-age Columbus Limestone, Silurian-age Lockport Dolomite, Devonian-age Detroit River Group, Silurian-age Greenfield/Tymochtee Dolomites, and the Silurian-age Cedarville Dolomite (see figure 9).

An annual average of 1,092 employees worked an average of 136 days to produce limestone and dolomite. Total wages of \$69,602,802 were paid to a total of 1,506 employees (1,092 production employees and 414 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$46,217.

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.

³Includes reported and estimated values. See footnote 1, p. 4.

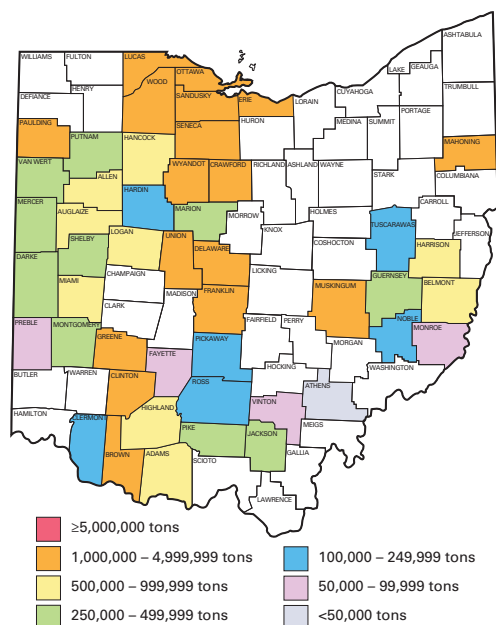


FIGURE 7.—Sales of limestone and dolomite in Ohio in 2009, by county.

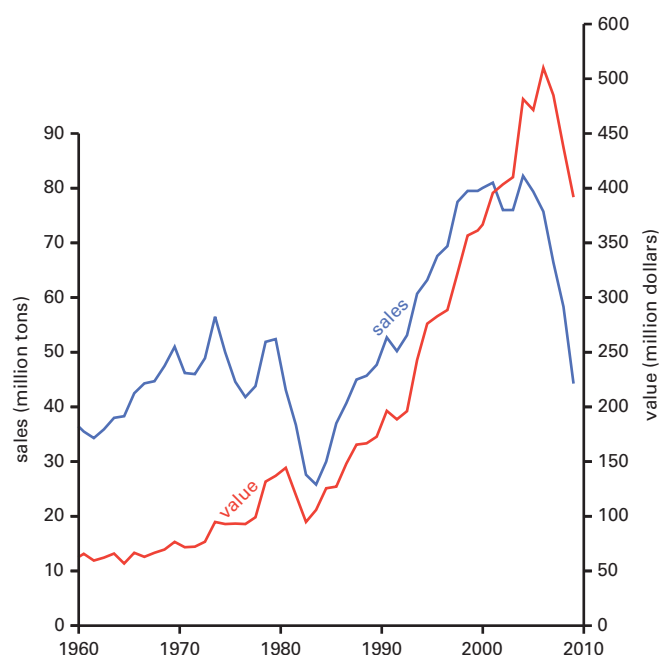


FIGURE 8.—Sales and value of limestone and dolomite in Ohio.

TABLE 14.—2009 Production of lime from Ohio stone, by county and type

County	Total tons ¹	Building (tons)	Chemical and industrial (tons)	Refractory (tons)
Ottawa	95,430	72,653	22,777	
Sandusky	677,681		646,283	31,398
Seneca	272,300		272,300	
TOTAL	1,045,411	72,653	941,360	31,398

¹Burning produced a 55.9 percent weight loss.

TABLE 15.—2009 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	
		Total	Riprap	Flux stone	Stone for portland concrete	Stone for asphaltic concrete	Road construction/surfacing	Commercial building	Railroad ballast	Extenders/fillers					Unspecified/other
Adams	895,400	868,400	19,300	21,000	65,000	70,000	276,000	62,000		8,100	347,000			27,000	
Allen	937,327	932,337	8,447		95,749	264,587	243,156	115,602		27,019	177,777			4,990	
Athens	15,229	15,229	1,500				13,729							5,321	
Auglaize	522,368	517,047	7,287		220,872	84,000	100,000				104,888				
Belmont	565,349	565,349	11,541				553,808								
Brown	1,270,000	1,270,000			200,000	200,000	450,000	200,000			220,000				
Clermont	236,949	236,949	1,000			12,000	78,382	145,567							
Clinton	1,276,598	1,149,637	58,670		32,000	300,000	463,000	263,827			32,140			126,961	
Crawford	1,175,000	1,023,000	5,000		272,000	226,000	200,000	82,000		138,000	100,000			152,000	
Darke	282,152	282,152	765			120,056	48,851	105,849		6,631					
Delaware	1,569,000	1,568,000	14,000		290,000	180,000	412,000	200,000			472,000			1,000	
Erie	3,869,350	3,707,893	84,749		1,184,458	250,856	717,936	303,294	62,509		1,104,091			161,457	
Fayette	96,937	96,937					60,000	36,937							
Franklin	2,570,124	2,570,124	10,000		500,000	600,000	794,040	400,000			266,084				
Greene	1,343,545	905,332			100,000	235,000	350,000	217,332			3,000		438,213		
Guernsey	277,114	277,114					277,114								
Hancock	947,000	947,000	2,000		28,000	120,000	400,000		10,000		387,000				
Hardin	185,000	178,000			40,000	40,000	40,000	40,000			18,000			7,000	
Harrison	531,567	531,567	1,839				529,728								
Highland	594,500	568,491	3,418		75,000	97,171	285,173	75,000			32,729			26,009	
Jackson	478,298	478,298			100,000	100,000	150,000	50,000			78,298				
Logan	556,305	556,305	24,941		221,027	50,000	67,815	192,522							
Lucas	1,906,535	1,879,581	6,070		376,654	290,448	240,700	220,000	16,689	487,913	241,107			26,954	
Mahoning	1,264,934	1,249,316	10,000		360,000	285,000	200,000	322,316			72,000		15,618		
Marion	453,000	452,000	4,000		57,000	116,000	200,000				75,000			1,000	
Mercer	486,000	470,000			100,000	100,000	200,000	50,000			20,000			16,000	

SYSTEM		GROUP	LITHOSTRATIGRAPHIC UNITS
Pleistocene			Glacial clay
Permian		Dunkard	
Pennsylvanian	Monongahela		Fishpot limestone Redstone limestone
	Cone-maugh		Ames limestone Brush Creek limestone
	Allegheny		Lower Kittanning clay Vanport limestone Putnam Hill limestone Brookville clay
	Pottsville		Tionesta clay Middle Mercer clay Flint Ridge clay Massillon sandstone Sharon sandstone
Mississippian			Maxville Limestone Logan Formation Cuyahoga Formation Black Hand Sandstone Buena Vista Sandstone
Devonian		Detroit River	Berea Sandstone Bedford Shale Ohio Shale Chagrin Member Delaware Limestone Columbus Limestone Dundee Limestone Ten Mile Creek Dolomite Silica Shale
Silurian	Salina		Tymochtee Dolomite Greenfield Dolomite Peebles Dolomite Salina Dolomite "Salt beds"
			Cedarville Dolomite Lockport Dolomite Laurel Limestone Dayton Limestone Brassfield Limestone
Ordovician	Black River	Cincinnati	Black River Limestone

FIGURE 9.—Stratigraphic column of industrial minerals mined in Ohio during 2009 and associated key beds. Modified from Slucher and others (2006), Ohio Division of Geological Survey (1990), and Brant and Delong (1960, table 9).

SAND AND GRAVEL (See also Appendix D.)

Sand and gravel were reported sold or produced by 178 companies at 252 operations in 59 Ohio counties during 2009 (fig. 10). Estimated sales of sand and gravel totaled 28,101,886 tons, down 15.4 percent from 2008 (Wolfe, 2009; fig. 11). Sand accounted for 14,849,005 tons of the total sand and gravel sold, and gravel accounted for 13,252,881 tons (table 16). No sand was reported dredged from Lake Erie in 2009. Stark, Portage, Hamilton, Butler, and Franklin counties led in sales, accounting for 44.9 percent of the total. Reported known production of sand and gravel totaled 28,190,712 tons in 2009.

Out of 50 producing states and Puerto Rico, Ohio ranks eleventh in the production of construction sand and gravel. The states leading Ohio, in descending order of production, are California, Texas, Arizona, Minnesota, Michigan, Utah, Colorado, Wisconsin, Washington, and New York. Nationally Ohio ranks ninth (out of 35 states; USGS 2010b) in the production of industrial sand and gravel behind (in descending order) Texas, Illinois, Wisconsin, Minnesota, Oklahoma, California, North Carolina, and Michigan, and ranks sixth in the production of aggregates, including crushed stone. The states leading Ohio in the production of aggregates are Texas, California, Pennsylvania, Missouri, and Illinois (USGS, 2010a).

The total value⁴ of sand and gravel sold in 2009 was \$183,292,778 (fig. 11). Average price per ton was \$6.52.

Sand and gravel deposits in Ohio are primarily associated with Wisconsinan-age glacial outwash and kame terraces in the valleys of the Great Miami, Scioto, and Muskingum rivers located in central and southwestern portions of the state. Important sand and gravel deposits are also found in glacial kames in northeast Ohio, particularly south of Cleveland in Portage, Summit, and Stark counties. There are additional sand and gravel resources in beach ridges associated with ancestral Lake Erie and alluvium of modern floodplains of the Ohio River and its tributaries.

An annual average of 904 employees worked an average of 121 days in 2009 to produce sand and gravel. Total wages of \$54,570,672 were paid to a total of 1,296 employees (904 production employees and 392 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$42,107.

Commercial and residential building, portland cement concrete, asphaltic concrete, and road construction/resurfacing were the major uses for Ohio sand and gravel in 2009.

⁴Includes reported and estimated values. See footnote 1, p. 4.

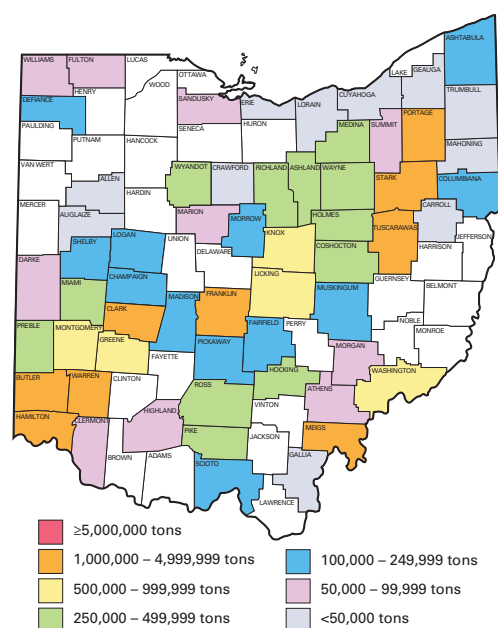


FIGURE 10.—Sales of sand and gravel in Ohio in 2009, by county.

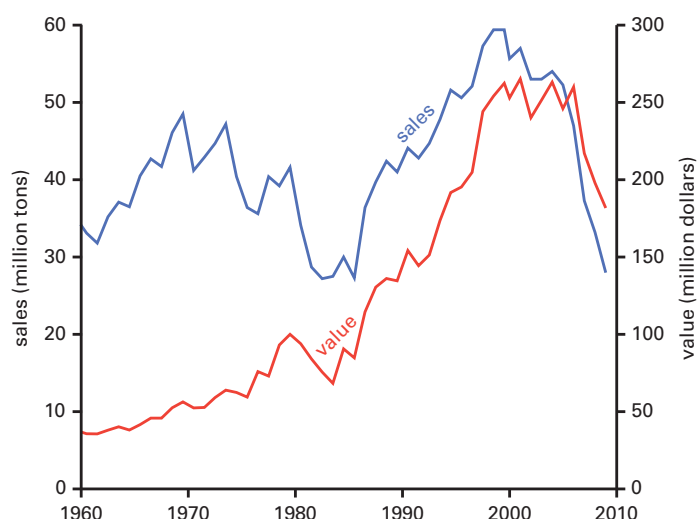


FIGURE 11.—Sales and value of sand and gravel in Ohio. Sales and values from 1984 to 2009 include Lake Erie-dredged material.

TABLE 16.—2009 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		Industrial Sand	Other/unspecified	
				Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel		Sand	Gravel
Allen	10,195	8,947	1,248	158	12	497		5,836		262	168	18	169		2,176	899
Ashtand	325,711	107,471	218,240	59,792	137,449					40,868	69,250				6,811	11,541
Ashtabula	118,076	67,124	50,952	58,415	36,268					2,392		1,561	14,684		4,756	
Athens	57,060	28,016	29,044	22,409	24,850					5,607	4,194					
Auglaize	12,086	8,875	3,211	7,533	3,211	1,342										
Butler	2,332,687	1,116,346	1,216,341	481,892	465,898	172,745	157,367	135,945	125,924	296,487	434,941				29,277	32,211
Carroll	41,704	20,852	20,852					20,852	20,852							
Champaign	207,597	86,311	121,286	5,053	30,509	37,239	22,386	37,239	30,552	6,780	37,839					
Clark	1,100,577	404,746	695,831	116,545	206,238	73,700	80,000	139,834	231,311	74,667	172,549		5,733			
Clermont	36,934	26,729	10,205					26,729	10,205							
Columbiana	188,682	81,108	107,574	40,036	51,006			9,631		22,247	6,387	5,830	23,148		3,364	27,033
Coshocton	291,663	108,907	182,756	17,226	33,272	10,000	10,000	42,835	47,604	10,944	79,553		2,366		14,337	9,961
Crawford	300	300													300	
Cuyahoga	20,512	20,512													20,512	
Darke	71,925	41,955	29,970		29,970										41,955	
Defiance	133,225	119,602	13,623	15,470	10,290	104,132										3,333
Erie	500		500													500
Fairfield	181,590	115,305	66,285	20,250	10,844	20,000	10,000	30,000	20,000	30,000	20,000				15,055	5,441
Franklin	1,866,370	1,078,674	787,696	402,197	336,518	423,000	207,000	253,477	216,102							76
Fulton	65,296	62,921	2,375	62,921	2,375											
Gallia	10,628	6,191	4,437	6,191	3,583								854			184
Geauga	5,160	3,750	1,410	3,612	1,226											
Greene	753,428	295,666	457,762	122,850	250,966	45,997	50,900	800	17,563	59,114	36,062				66,905	102,271
Hamilton	2,597,627	1,590,152	1,007,475	874,779	575,727	349,278	77,829	128,014	100,674	214,181	227,865		700		23,900	24,680
Highland	79,455	45,912	33,543		13,628	22,956					3,668	22,956	16,247			
Hocking	390,721	190,461	200,260	15,500	7,817	50,500	13,000	96,531	149,731	6,736	6,636	6,582	2,000		14,612	21,076
Holmes	447,702	235,802	211,900	24,968	83,024	101,321	56,882	31,350	36,365	53,009	35,629	25,154				
Knox	597,508	328,731	268,777	53,125	126,612	163,243	1,687	55,000	36,901	40,000	81,827		15,293		17,363	6,457
Licking	605,307	343,369	261,938	58,500	122,567	165,000	20,000	71,000	50,000	30,000	57,000		2,160		18,869	12,371
Logan	117,719	52,524	65,195	49,093	63,035	2,819										
Lorain	3,640	3,640		3,640												
Madison	100,504	46,686	53,818	8,552	53,818			38,134								
Mahoning	868	434	434	434	434											
Marion	68,882	30,868	38,014	30,868							4,308					33,706

Medina	259,000	160,000	99,000	60,000	99,000	100,000	85,000	165,000	100,000	165,000	45,000	95,000				39,720	76,426
Meigs	1,116,146	674,720	441,426	155,000	85,000	150,000						51,421				300	300
Miami	275,464	126,693	148,771	50,000	97,050	22,300						54,093				44,546	69,084
Montgomery	789,837	323,900	465,937	187,258	213,404	62,096	93,142	30,000	45,000			45,307				62	37,699
Morgan	37,761	62	37,699									63,199	4,435	5,600			14,873
Morrow	221,970	83,011	138,959	78,576	55,287							3,198				76,084	19,590
Muskingum	180,859	125,521	55,338	29,588	14,553			19,497	17,997								355
Pickaway	179,627	59,691	119,936	14,326	61,766	20,000		20,000	20,000			37,815					2,433
Pike	255,633	201,836	53,797	64,500	24,700	7,086		100,000				26,664				30,250	43,754
Portage	2,742,183	1,863,695	878,488	407,991	294,758	348,130	30,000	305,077	171,729			305,208		33,039		185,014	
Preble	314,208	101,801	212,407	101,766	212,312							80	35	15			
Richland	355,080	122,503	232,577	45,487	173,123	30,490	2,952	21,147	6,813			38,962	1,193			24,104	10,727
Ross	320,934	146,339	174,595	39,874	33,635	19,659	23,842	52,697	79,158			20,237				21,791	17,723
Sandusky	910		910		910												
Scioto	248,697	155,460	93,237	36,113	34,488	19,283	4,868									100,064	53,881
Shelby	198,598	71,479	127,119			36,552	37,116	5,326	42,314			10,715				22,532	36,974
Stark	3,090,011	1,568,646	1,521,365	231,610	505,673	170,882	22,108	501,100	553,174			288,714				183,239	151,696
Summit	96,303	54,886	41,417	10,158	10,408			39,060	13,702			2,700				5,668	14,607
Trumbull	41,768	34,312	7,456	7,204	7,456	6,893		4,755								15,460	
Tuscarawas	1,648,177	856,482	791,695	320,359	361,324	109,686	45,120	342,789	159,332			183,071		10,651		26,976	42,848
Warren	1,143,592	373,451	770,141	158,994	303,179		47,000	22,840	22,840			300,850				41,617	96,272
Washington	838,605	574,691	263,914	74,972	60,631	112,430	56,386	287,317	99,161			44,033				49,972	3,703
Wayne	496,943	229,522	267,421	23,424	181,640	128,058	9,676	67,774	27,288			5,371	995	8,464		3,900	
Williams	94,601	37,864	56,737	37,864	56,737												
Wyandot	313,140	223,553	89,587	24,821	59,878	99,290		88,000				4,000	3,127	25,709		8,315	
TOTAL	28,101,886	14,849,005	13,252,881	4,721,894	5,628,059	3,186,604	1,164,261	3,195,586	2,452,292	2,488,263	2,867,403	72,498	156,181	24,216	1,159,944	984,685	

SANDSTONE AND CONGLOMERATE (See also Appendix E.)

Sandstone and conglomerate were sold or produced by 20 companies at 24 operations in 18 Ohio counties during 2009 (fig. 12). Sales totaled 1,113,099 tons a decrease of 26.7 percent from 2008 (Wolfe, 2009; fig. 13). Geauga, Mahoning, Perry, Pike, and Knox counties accounted for 87.8 percent of the total sales. Crushed sandstone and conglomerate accounted for 1,082,589 tons of the total sales (table 17), and dimension stone accounted for 30,510 tons (table 18). Reported known production of sandstone and conglomerate was 1,152,888 tons in 2009. Ohio ranks eighteenth (out of 37 producing states) in production of all dimension stone. Ohio ranks fifth in the production of sandstone dimension stone. The top five states, in descending order of total dimension stone production, are Texas, Wisconsin, Indiana, Georgia, and Arizona (USGS, 2010b). National standings for crushed stone are included in the “Limestone and Dolomite” section (p. 15).

The total value⁵ of sandstone and conglomerate sold in 2009 was \$31,085,335 (fig. 13). Average price per ton was \$24.28 for crushed stone and \$98.54 for dimension stone.

The Pennsylvanian-age Sharon Conglomerate in northeast Ohio was the most productive sandstone mined for industrial purposes during 2009. The Pennsylvanian-age Massillon sandstone and the Mississippian-age Black Hand Sandstone were also important sources of high-silica sandstone. The Massillon sandstone and the Devonian-age Berea Sandstone of northern Ohio were the primary geologic units quarried for building stone (Bownocker, 1915; see also fig. 9).

An annual average of 135 employees worked an average of 141 days in 2009 to produce sandstone and conglomerate. Total wages of \$6,401,499 were paid to a total of 163 employees (135 production employees and 28 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$39,273.

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

⁵Includes reported and estimated values. See footnote 1, p. 4.

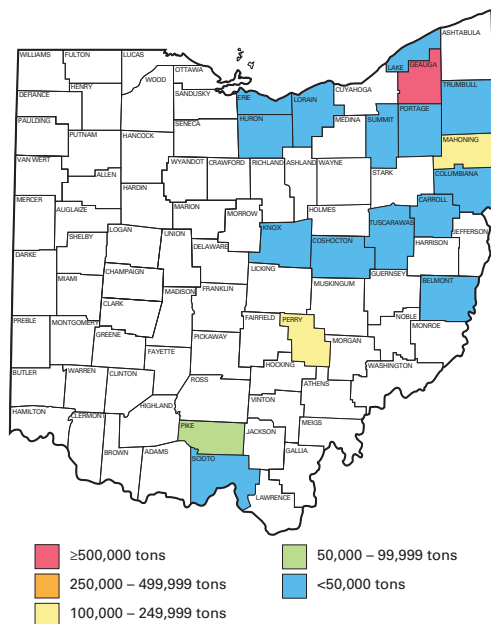


FIGURE 12.—Sales of sandstone and conglomerate in Ohio in 2009, by county.

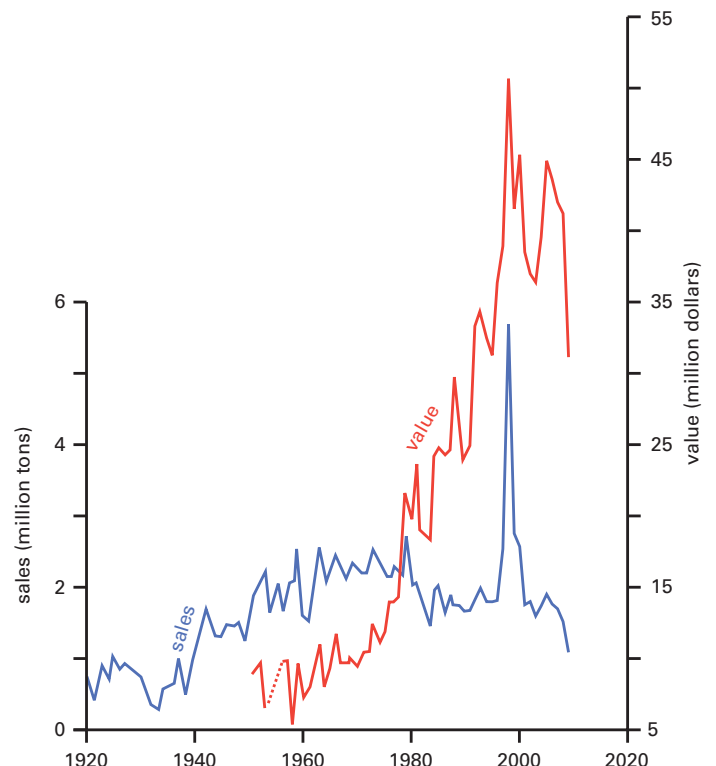


FIGURE 13.—Sales and value of sandstone and conglomerate. Value line dashed where data not available.

TABLE 17.—2009 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/un-specified
Belmont	2,363					2,363									
Carroll	475					475									
Columbiana	7,318						5,318						2,000		
Geauga	663,176	61,426	105,798		1,000		57,000		1,000			12,555	186,718	104,053	133,626
Knox	40,950													40,950	
Lake	38,806						26,032						12,774		
Mahoning	117,184												117,184		
Perry	100,203														
Pike	54,368	8		10,000				37,464						62,739	
Portage	20,619												7,324	6,699	30,337
Trumbull	984					38							20,619		
Tuscarawas	36,143	2,677					15,000						946		
													16,275		2,191
TOTAL	1,082,589	64,111	105,798	10,000	1,000	2,876	103,350	37,464	1,000	0	0	12,555	363,840	214,441	166,154

TABLE 18.—2009 Ohio sales of dimension sandstone, by county and type

County	Tons sold									
	Total	Refractory	Rough construction	Rubble	Grindstone	Rough architectural	Finished	Curbing	Flagging	Other/ unspecified
Coshocton	8,093		8,093							
Erie	8,397		549	888			6,874		86	
Huron	5,088		5,088							
Knox	1,220		1,220							
Lorain	3,840		1,750	150		850	1,050			40
Scioto	3,610		3,610							
Summit	262									262
TOTAL	30,510	0	20,310	1,038	0	850	7,924	0	86	302

CLAY
(See also Appendix F.)

Clay was sold or produced by 23 companies at 27 operations in 16 Ohio counties (fig. 14) during 2009. Clay sales (including material for captive use) totaled 378,464 tons, 46.5 percent less than in 2008 (Wolfe, 2009; fig. 15); Tuscarawas, Columbiana, Lucas, Perry, and Stark counties accounted for 85.7 percent of the total sales (table 19). National rankings for clay are included with “Shale” section (p. 25). Reported known production of clay was 331,024 tons. The total value⁶ of clay sold (including material for captive use) in 2009 was \$3,885,593 (fig. 15). Average price per ton was \$10.27. General discussions of clay and shale geology in Ohio can be found in Lamborn and others (1938) and Stout and others (1923).

An annual average of 20 employees worked an average of 104 days in 2009 mining clay. Total wages of \$730,884 were paid to a total of 28 employees (20 production employees and 8 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$26,103.

Clay mined in Ohio in 2009 was used largely for captive use in the production of common clay products, such as building bricks; the landfill industry; and for cement manufacture.

⁶Includes reported and estimated values. See footnote 1, p. 4.

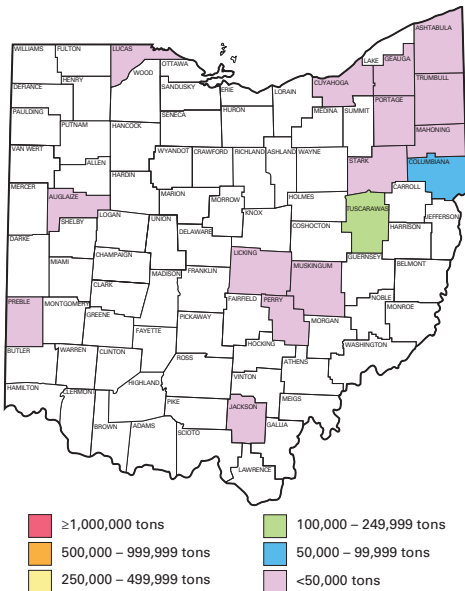


FIGURE 14.—Clay sales in Ohio in 2009, by county.

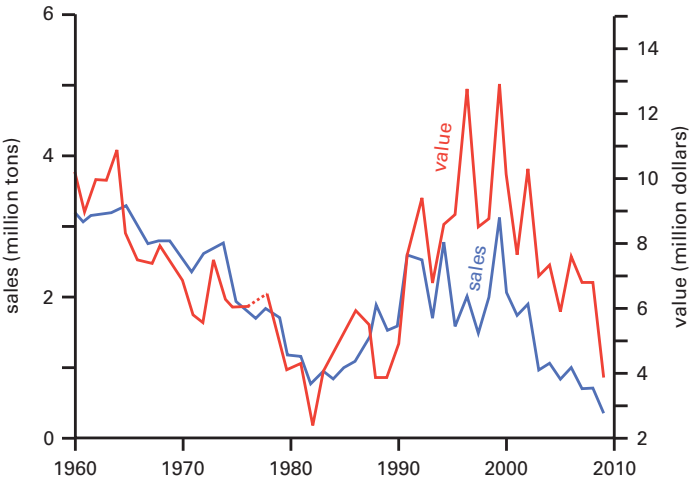


FIGURE 15.—Sales and value of clay in Ohio. Value line dashed where data not available.

TABLE 19.—2009 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	1,124	497					627		
Auglaize	2,835	2,835							
Columbiana	55,120	50,120							5,000
Cuyahoga	318						318		
Geauga	18						18		
Jackson	16,722					6,793			9,929
Licking	13,556							7,056	6,500
Lucas	47,440							47,440	
Mahoning	2,838	755							2,083
Muskingum	15,541	15,541							
Perry	22,500	22,500							
Portage	60						60		
Preble	650						650		
Stark	20,569	491						20,078	
Trumbull	556	556							
Tuscarawas	178,617	172,104					284	6,229	
TOTAL	378,464	265,399				6,793	1,957	80,803	23,512

SHALE

(See also Appendix G.)

Shale was sold or produced by 15 companies at 18 operations in 13 Ohio counties during 2009 (fig. 16). Shale sales (including material for captive use) totaled 507,980 tons, down 41 percent from 2008 (Wolfe, 2009; fig. 17); Tuscarawas, Cuyahoga, Marion, Paulding, and Harrison counties accounted for 86.6 percent of the total sales (table 20). Reported production of shale in 2009 was 508,285 tons. Combined clay and shale production in 2009 was the lowest since 1935. Based on 2007 data, the latest available from USGS, Ohio ranks eighth (out of 41 producing states) in the production of common clay and shale; the states leading Ohio are Georgia, Wyoming, Alabama, Texas, North Carolina, South Carolina and Arkansas (USGS, 2009).

The total value⁷ of shale sold (including material for captive use) in 2009 was \$7,122,866 (fig. 17). Average price per ton was \$14.02.

An annual average of 8 employees worked an average of 153 days in 2009 mining shale. Total wages of \$595,632 were paid to a total of 16 employees (8 production employees and 8 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$37,227.

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

⁷Includes reported and estimated values. See footnote 1, p. 4.

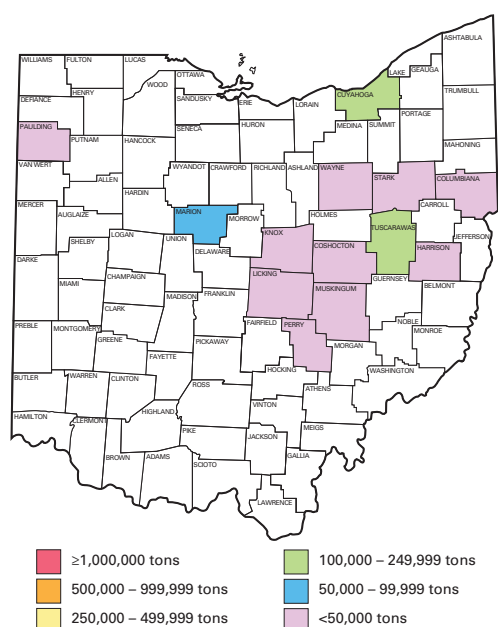


FIGURE 16.—Shale sales in Ohio in 2009, by county.

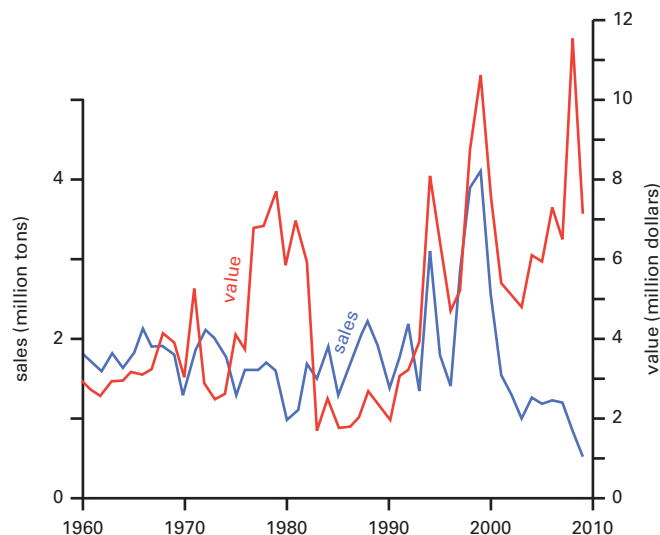


FIGURE 17.—Sales and value of shale in Ohio. Value line dashed where data not available.

TABLE 20.—2009 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
Columbiana	11,545	11,545						
Coshocton	1,887				1,887			
Cuyahoga	111,289				111,289			
Harrison	27,616	27,616						
Knox	3,828					3,828		
Licking	11,180	11,180						
Marion	54,826	54,826						
Muskingum	3,185						300	
Paulding	29,995			29,995		2,885		
Perry	23,200	23,200						
Stark	13,148	13,148						
Tuscarawas	215,781	82,855				127,301	5,625	
Wayne	500							500
TOTAL	507,980	224,370		29,995	113,176	134,014	5,925	500

SALT

(See also Appendix H.)

Salt was produced by 4 companies at 6 operations in 5 Ohio counties during 2009 (fig. 18). Total tonnage of salt sold in 2009 amounted to 5,957,663 tons (+3.3 percent from 2008; Wolfe, 2009; fig. 19). Rock salt sales totaled 5,262,769 tons from 2 underground mines, one each in Cuyahoga and Lake Counties. Four brining operations—two in Licking County and one each in Summit and Wayne Counties—sold a total of 526 tons of salt in brine and 694,368 tons of evaporated salt. Reported known production of salt was 6,062,609 tons in 2009. The top five salt-producing states nationally, based on 2008 data, are Louisiana, Texas, New York, Ohio, and Kansas (USGS, 2010c).

The total value⁸ of the salt sold in 2009 was \$233,262,331 (fig. 19). Average price per ton of rock salt was \$32.14 and of salt in brine and evaporated salt was \$81.61. The average price per ton of all salt sold was \$38.48.

Salt in Ohio, both solution-mined and rock salt, is produced from bedded deposits in the Silurian-age Salina Group. The Salina salt beds are restricted to the subsurface in eastern Ohio. The Salina Group in eastern Ohio is subdivided into seven units, A through G, from lowest to highest. The salt produced in Ohio comes from the F unit, which is further subdivided into four beds. Individual salt beds are less than 100 ft thick and may contain thin interbeds of anhydrite and dolomite. Depth to the F unit varies from 1,900 ft in the Cleveland mine to over 2,000 ft at the Fairport Harbor mine (Tomastik, 2002; Clifford, 1973; see also fig. 9).

An annual average of 242 employees worked an average of 283 days in 2009 to produce salt. Total wages of \$18,494,980 were paid to a total of 380 employees (242 production employees and 138 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$48,671.

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.

⁸Includes reported and estimated values. See footnote 1, p. 4.

GYPSUM

(See also Appendix H.)

There was no gypsum production or sales reported in 2009 (fig. 20). A history of gypsum production in Ohio can be found in Wolfe (2001).

PEAT

(See also Appendix H.)

Peat production and sales reported in 2009 were 2,069 tons with a value of \$13,684 (fig. 21) and was limited to one operation in Portage County (fig. 18). Dachnowski (1912) contains information on the origin, formation, and uses of peat in Ohio.

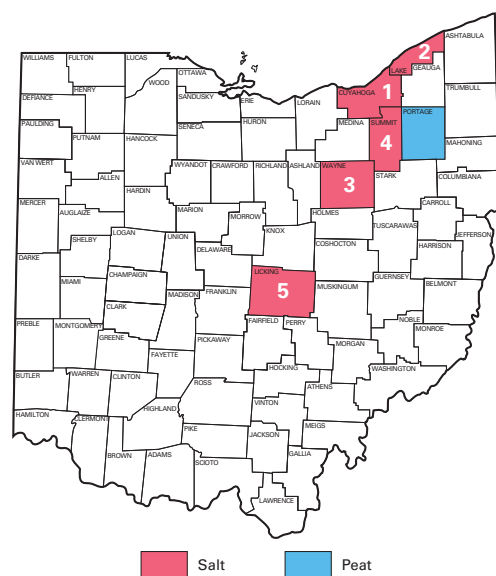


FIGURE 18.—Counties producing salt and peat in Ohio in 2009 and their rankings in sales.

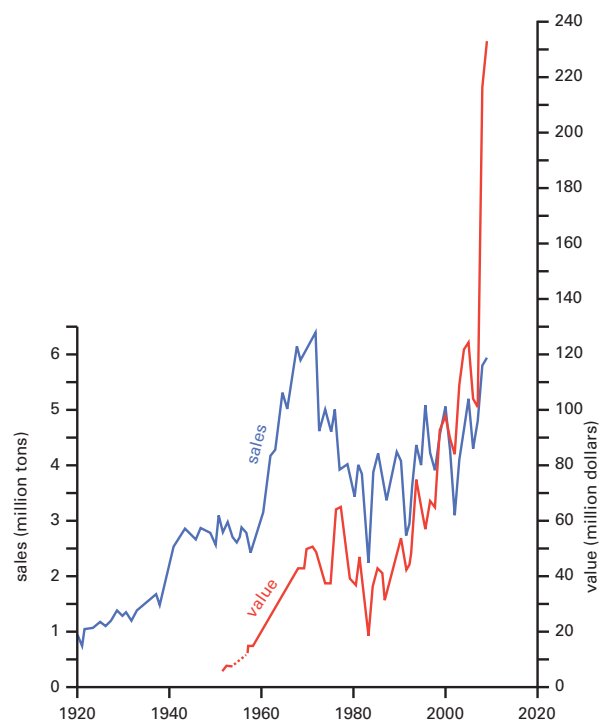


FIGURE 19.—Sales and value of salt in Ohio. Value line dashed where data not available.

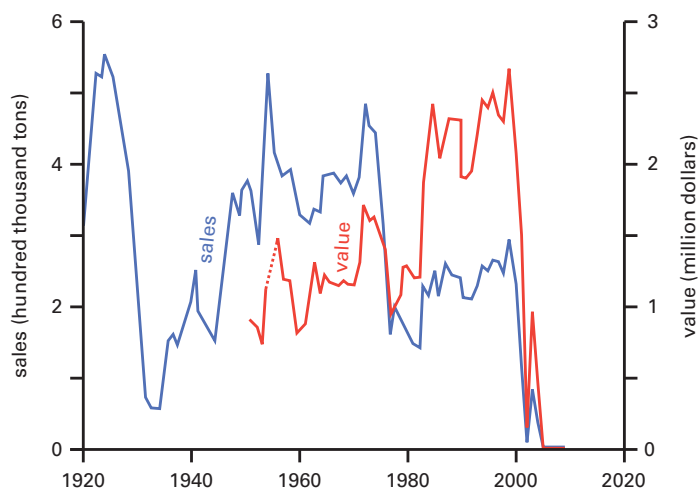


FIGURE 20.—Sales and value of gypsum in Ohio. Value line dashed where data not available. Some sales and values were estimated because in order to maintain confidentiality, actual sales and values were not reported.

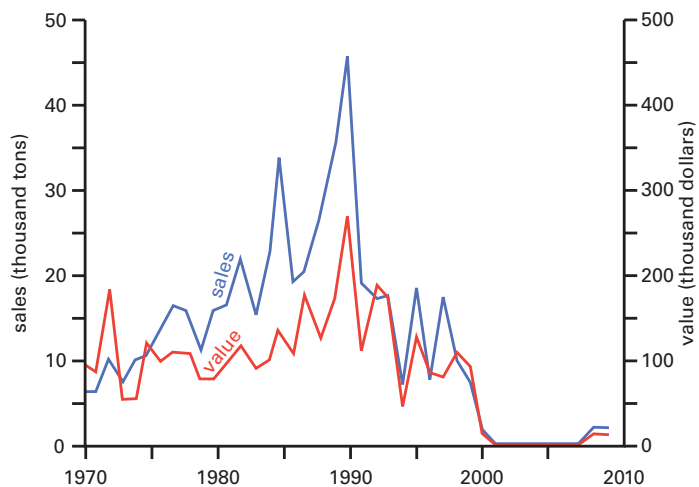


FIGURE 21.—Sales and value of peat in Ohio.

OIL AND GAS

(This information is summarized from DMRM, 2010)

The Ohio Department of Natural Resources, Division of Mineral Resources Management (DMRM) estimates that 558 wells were drilled in 2009, a decrease of 525 wells from 2008. The 48.5 percent decrease in 2009 drilling activity in Ohio was caused primarily by the large decrease in the average price paid for oil and gas compared to 2008. The tremendous growth in Marcellus Shale drilling in Pennsylvania, New York, and West Virginia also adversely affected the availability of drilling rigs and increased the costs of completing wells in Ohio. Wells were drilled and/or completed in 40 of Ohio's 88 counties (table 21), a decrease of four counties from 2008. The top ten counties in number of new wells drilled in 2009 were Licking, Knox, Cuyahoga, Noble, Geauga, Monroe, Guernsey, Trumbull, Coshocton, and Tuscarawas (fig. 22). The DMRM received 438 well completion reports; 398 wells were productive and 40 were dry holes (table 21) for a completion rate of 91 percent.

The Silurian-age "Clinton" sandstone continued to dominate Ohio's drilling statistics (table 22), as it has for more than 50 years. The number of wells drilled to the "Clinton" declined greater than 65 percent in Portage, Stark, Ashtabula, and Perry Counties. Devonian-age Ohio Shale drilling decreased more than 65 percent in Monroe County; but neighboring Noble County recorded a small increase in Ohio Shale drilling activity. Devonian Shale exploration is expanding geographically in the state. The Ordovician-age Beekmantown Dolomite and Devonian-age Oriskany Sandstone plays in Muskingum and Washington counties, respectively, experienced significant declines in drilling activity. The Cambrian-Ordovician Rose Run Sandstone showed a resurgence of activity in Pickaway County during 2009. The increase in the number of wells drilled or converted for brine disposal that began in 2008 continued in 2009, primarily to serve the large volumes of formation water produced from the Marcellus Shale play in Pennsylvania and West Virginia. There were 22 gas storage wells drilled during 2009, an increase of 16 from 2008.

The total reported crude oil production in Ohio in 2009 was 5,008,609 barrels (bbl), a 9.8 percent decrease from 2008. Through 2009, Ohio wells have produced approximately 1.13 billion bbl of crude oil. The dollar value of crude oil produced in Ohio in 2009 was \$278,272,810, a decrease of 46.6 percent. Average price per barrel in 2009 was \$55.56, a 40.8 percent decrease from the 2008 price.

Natural gas production in Ohio in 2009 was 88,824,419 thousand cubic feet (MCF), a 4.7 percent increase from 2008. This production figure includes an estimated 879,450 MCF of gas used on the lease. Through 2009, Ohio wells have produced approximately 8.44 trillion cubic feet of natural gas. The dollar value of natural gas produced in Ohio in 2009 was \$387,166,839, a decrease of 53.3 percent from 2008. 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 2009 was \$4.36, a decrease of \$5.41 per MCF from 2008.

The combined total value of Ohio oil and gas production in 2009 was \$665,439,649, a decrease of 50.7 percent from 2008.

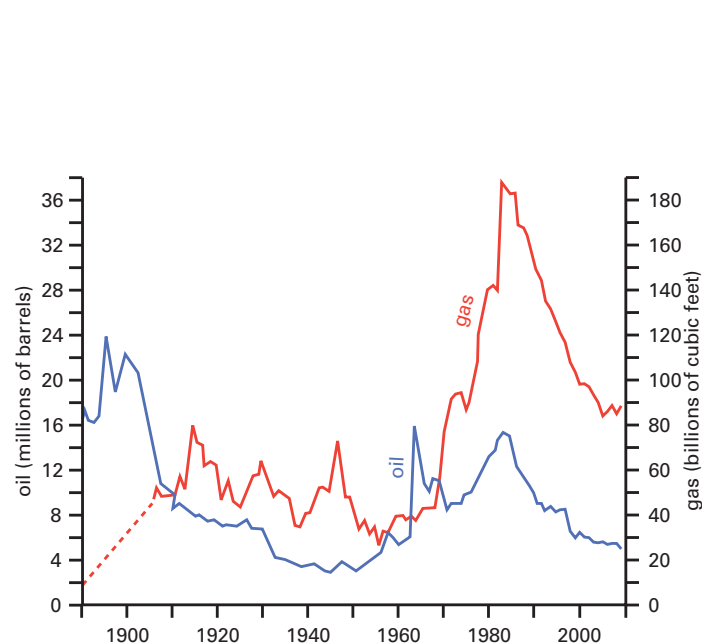


FIGURE 22.—Production of oil and gas in Ohio. Gas line dashed where data not available.

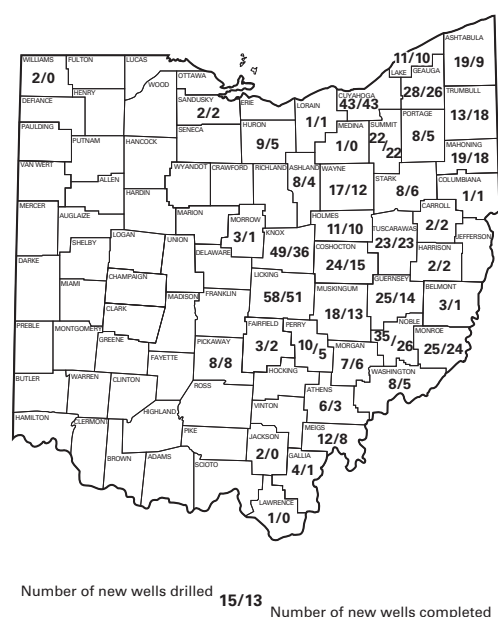


FIGURE 23.—New wells drilled and completed (including dry holes) for oil and gas in Ohio in 2009, by county (from DMRM, 2010).

TABLE 21.—2009 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	6,068	1,284	7,352
Ashtabula	9	0	0	0	9	100	29,101		29,101
Athens	3	0	0	0	3	100	5,950		5,950
Belmont	0	0	1	0	1	100	5,934		5,934
Carroll	2	0	0	0	2	100	11,232		11,232
Columbiana	1	0	0	0	1	100	5,405		5,405
Coshocton	13	2	0	0	15	87	41,616	7,957	49,573
Cuyahoga	42	0	1	0	43	100	156,441		156,441
Fairfield	1	0	0	1	2	50	4,460	4,488	8,948
Gallia	1	0	0	0	1	100	2,005		2,005
Geauga	26	0	0	0	26	100	103,385		103,385
Guernsey	8	3	3	0	14	79	56,771	22,515	79,286
Harrison	2	0	0	0	2	100	1,106		1,106
Holmes	9	0	0	1	10	90	37,034	6,493	43,527
Huron	2	1	1	1	5	60	9,910	6,438	16,348
Knox	34	0	2	0	36	100	101,726		101,726
Lake	9	0	0	1	10	90	30,147	6,311	36,458
Licking	43	4	2	2	51	88	105,154	11,142	116,296
Lorain	1	0	0	0	1	100	2,871		2,871
Mahoning	18	0	0	0	18	100	100,106		100,106
Meigs	1	0	5	2	8	75	14,493	3,322	17,815
Monroe	22	0	2	0	24	100	66,214		66,214
Morgan	6	0	0	0	6	100	11,985		11,985
Morrow	1	0	0	0	1	100	3,205		3,205
Muskingum	6	1	6	0	13	92	66,339	6,234	72,573
Noble	19	0	7	0	26	100	114,445		114,445
Perry	3	1	0	1	5	60	7,417	6,856	14,273
Pickaway	2	5	0	1	8	25	5,649	16,331	21,980
Portage	5	0	0	0	5	100	22,270		22,270
Sandusky	0	0	1	1	2	50	1,696	2,773	4,469
Stark	6	0	0	0	6	100	32,349		32,349
Summit	22	0	0	0	22	100	88,234		88,234
Trumbull	17	0	1	0	18	100	90,111		90,111
Tuscarawas	13	6	3	1	23	70	111,796	50,605	162,401
Washington	4	0	0	1	5	80	14,695	524	15,219
Wayne	10	1	0	1	12	83	44,600	11,559	56,159
TOTAL	363	26	35	14	438	91	1,511,920	164,832	1,676,752

¹No wells were drilled in these counties in 2009: Adams, Allen, Auglaize, Brown, Butler, Champaign, Clark, Clermont, Clinton, Crawford, Darke, Defiance, Delaware, Erie, Fayette, Franklin, Fulton, Greene, Hamilton, Hancock, Hardin, Henry, Highland, Hocking, Jackson, Jefferson, Lawrence, Logan, Lucas, Madison, Marion, Medina, Mercer, Miami, Montgomery, Ottawa, Paulding, Pike, Preble, Putnam, Richland, Ross, Scioto, Seneca, Shelby, Union, Van Wert, Vinton, Warren, Williams, Wood, and Wyandot.

TABLE 22.—2009 Ohio summary of new oil and gas well completions, by geologic unit
(modified from DMRM, 2010)

Geologic unit	No. of producing wells	No. of dry holes	Total no. of wells	Percent productive	Total footage
Pennsylvanian undifferentiated	4	1	5	80	3,732
Upper Mississippian undifferentiated	1	0	1	100	1,450
Devonian					
"1st & 2nd Berea"	17	8	25	68	26,287
Ohio Shale	60	2	62	97	214,767
Oriskany	3	0	3	100	15,096
Silurian					
"Clinton-Medina"	272	0	272	100	1,015,937
Ordovician					
Trenton/Black River	1	1	2	50	5,468
Beekmantown	21	6	27	78	198,740
Cambrian-Ordovician					
Rose Run	8	13	21	38	109,333
Cambrian					
Trempealeau	11	8	19	58	79,631
Precambrian	0	1	1	0	6,311
TOTAL	398	40	438	91	1,676,752

TABLE 23.—*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 County reported no production or sales of mineral commodities in 2009.²As used for State of Ohio mine numbers.

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**2009 COAL COMPANIES WITH SALES
AND/OR PRODUCTION**

Company	Number of mines	Production (tons)	Sales (tons)
American Energy Corp.	2	6,033,456	5,851,674
Amerikohl Mining Inc.	1	47,685	47,685
Anthony Mining Co., Inc.	3	77,289	77,289
B & N Coal, Inc.	5	516,400	516,400
Belden Brick Co.	3	16,025	16,025
Buckeye Industrial Mining Co.	10	871,693	871,693
Buckingham Coal Co., Inc.	3	1,379,426	1,467,742
Cedar Heights Clay Co.	2	1,563	1,563
D. & D. Mining Co.	1	7,834	3,908
East Fairfield Coal Co.	1	309	309
Egypt Valley Stone, LLC	1	12,399	12,399
F. & M. Coal Co.	1	10,776	10,776
Gatling Ohio LLC	1	296,049	277,230
Harrison Resources LLC	1	681,227	681,227
Hopedale Mining, LLC	1	1,493,719	1,500,787
Jeffco Resources, Inc.	1	60,715	60,715
Kimble Clay & Limestone Co.	8	214,114	214,114
L & M Mineral Co.	1	9,251	9,251
Marietta Coal Co.	2	120,704	120,704
Ohio American Energy, Inc.	3	2,145,267	1,675,395
Ohio Valley Coal Co.	1	6,673,850	6,084,866
Oxford Mining Co., Inc.	21	3,522,952	3,522,952
Oxford Mining Co., LLC	1	849,548	849,548
Ritchie Mining	1	2,997	2,997
Rosebud Mining Company	1	602,111	602,111
Sands Hill Coal Co., Inc.	3	669,933	662,523
Schaney Mining	1	3,009	3,009
Sidwell Materials, Inc.	1	15,688	15,688
Solomon's Mines, Inc.	1	4,879	4,879
Sterling Mining Co.	2	323,790	323,790
Valley Mining, Inc.	2	262,238	262,238
Waterloo Coal Co., Inc.	3	397,625	397,625
TOTAL: 32 companies	89	27,324,521	26,149,112

2009 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	Production (tons)	State mine number	Mineral Resources Management permit number
American Energy Corp. 43521 Mayhugh Hill Rd., Twp. Rd. 88 Beallsville, OH 43950 (740) 795-5220 Robert E. Murray, pres.	Century Mine (u)	Belmont, Monroe	6,022,623	Bt-67	D-0425
	Bennoc 12	Belmont	10,833	Bt-BE	D-1159
Amerikohl Mining Inc. 202 Sunset Dr. Butler, PA 16001 (724) 282-2339 John M. Stilley, pres.	Kelley	Columbiana	47,685	Ca-A4	D-2302
Anthony Mining Co., Inc. P.O. Box 1298 Steubenville, OH 43952 (740) 266-8100 Albert Carapellotti, pres.	Carson Adjacent	Harrison	17,794	Hn-766	D-1041
	Patton-Mader	Harrison	20,220	Hn-A	D-2281
	Lions Club Adjacent	Jefferson	39,275	Jfn-AN	D-1173
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 (740) 783-3575 Carl Baker, Jr., pres.	Estdt Mine	Noble	61,051	Ne-BN	D-1038
	Westfork Mine	Noble	152,641	Ne-BN5	D-2218
	Whigville II	Noble	64,249	Ne-BN6	D-2253
	Mantel Mine	Noble	160,792	Ne-BN7	D-2285
	Whigville III	Noble	77,667	Ne-BN8	D-2332
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 (330) 852-2424 Robert F. Belden, pres.	Moomaw Pit	Tuscarawas	3,881	Ts-1517	IM-46
	Wallick Pit	Tuscarawas	9,833	Ts-1841	IM-45
	Shanesville Pit	Tuscarawas	2,311	Ts-1939	IM-47
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 (330) 337-9511 John C. Grisham, pres.	James South	Carroll	79,594	Cl-B4	D-2229
	Rogers	Columbiana	1,650	Ca-850	D-0052
	McClintock	Columbiana	40,671	Ca-B3	D-2249
	Kress	Columbiana	29,787	Ca-BI3	D-1174
	Snyder DM #10 (u)	Jefferson	476,007	Jfn-BI	D-1180
	Close	Stark	14,512	Sk-B	D-1123
	Freed	Stark	10,252	Sk-B10	D-2335
	Berlin Minerals	Stark	99,424	Sk-BI3	D-2267
	Weisel	Stark	20,554	Sk-BI4	D-2288
	Wilson	Stark	99,242	Sk-BI5	D-2320
Buckingham Coal Co., Inc. P.O. Box 157 Glouster, OH 45732-0157 (740) 347-4565 Gerald N. Little, pres.	Buckingham Mine No. 7 (u)	Perry	420,899	Py-B1	D-2223
	Buckingham Mine No. 6 (u)	Perry	958,527	Py-B2	D-2269
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	730	Jkn-CH2	IM-1302
	Phillips	Jackson	833	Jkn-CH3	IM-2035
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 (330) 549-3127 Donald Thompson, pres.	D. & D. Strip	Mahoning	7,834	Mg-D	D-2164

2009 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Production (tons)	State mine number	Mineral Resources Management permit number
East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 (330) 549-2165 W. Thomas Mackall, pres.	Withers-Petersburg	Mahoning	309	Mg-E	IM-1103
Egypt Valley Stone, LLC P.O. Box 188 Morristown, OH 43759 (740) 782-0042 Richard Petrozzi, pres.	Shugert	Belmont	12,399	Bt-E	IM-2299
F. & M. Coal Co. 3925 County Rd. 56 Toronto, OH 43964 (740) 544-5203 Edward Fiala, partner	Grabbit Pit	Jefferson	10,776	Jfn-FM1	D-2216
Gatling Ohio LLC 430 Harper Park Dr. Beckley, WV 25801 (304) 882-1300 David Jude, pres.	Yellow Bush Mine (u)	Meigs	296,049	Ms-G	D-2317
Harrison Resources LLC P.O. Box 205 Cadiz, OH 43907 (740) 942-4393 Chuck Ungurean, pres.	Sexton 2	Harrison	681,227	Hn-H	D-2289
Hopedale Mining, LLC P.O. Box 415 Hopedale, OH 43976 (740) 937-2225 David G. Zatezalo, pres.	Hopedale Mine (u)	Harrison	1,493,719	Hn-169	D-0424
Jeffco Resources, Inc. P.O. Box 1298 Steubenville, OH 43952 (740) 266-8100 Michael Carapellotti, pres.	Barnesville North	Belmont	60,715	Bt-J	D-2319
Kimble Clay & Limestone Co. 3596 State Route 39 W Dover, OH 44622-9801 (330) 343-1226 Keith B. Kimble, pres.	Kimble Clay & Limestone Co.	Harrison	1,619	Hn-K	D-2166
	Kimble Clay & Limestone Co.	Stark	31,092	Sk-K	D-2263
	Kimble Clay & Limestone Co.	Stark	22,872	Sk-P	D-2205
	Kimble Clay & Limestone Co.	Tuscarawas	23,487	Ts-1727	IM-9
	Kimble Clay & Limestone Co.	Tuscarawas	78,046	Ts-K10	D-2264
	Kimble Clay & Limestone Co.	Tuscarawas	31,307	Ts-K12	D-2327
	Kimble Clay & Limestone Co.	Tuscarawas	19,170	Ts-K4	D-1079
	Kimble Clay & Limestone Co.	Tuscarawas	6,521	Ts-K7	D-2079
	Luikart	Tuscarawas	9,251	Ts-1914	D-0701
L & M Mineral Co. 2010 County Rd. 144 Sugarcreek, OH 44681 (330) 852-3696 John E. Ling, Jr., pres.	Hostetler-Hapapuro	Belmont	7,558	Bt-1171	D-0674
	Fox Farms	Belmont	113,146	Bt-M11	D-2149

2009 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL MINE OPERATORS (cont.)

Name, address, telephone number, and perisident/owner/manager of company	Name of mine	County	Production (tons)	State mine number	Mineral Resources Management permit number
Ohio American Energy, Inc. 153 State Route 7 South Powhatan Point, OH 43942 (740) 598-4827 Robert Murray, pres.	Salt Run	Jefferson	504,396	Jfn-M	D-2180
	Star Ridge	Jefferson	799,301	Jfn-O2	D-2304
	Star Lake	Jefferson	841,570	Jfn-O3	D-2312
Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 (740) 926-1351 Michael Loiacono, pres.	Powhatan No. 6 (u)	Belmont	6,673,850	Bt-68	D-0360
Oxford Mining Co., Inc. 544 Chestnut St. P.O. Box 427 Coshocton, OH 43812 (740) 622-6302 Charles C. Ungurean, pres.	Beagle Club	Belmont	132,142	Bt-C8	D-2266
	Badgerstown	Belmont	321,025	Bt-C9	D-2283
	Barnesville Hospital	Belmont	189,239	Bt-OX2	D-2122
	Flushing	Belmont	163,658	Bt-OX4	D-2313
	Wheeling Valley	Belmont	366,198	Bt-OX5	D-2315
	Dailey	Columbiana	541	Ca-CE2	D-2097
	Plainfield	Coshocton	386,438	Cn-OX4	D-2295
	Hall's Knob	Guernsey	20,079	Gy-O	D-2334
	CR #29	Harrison	112,465	Bt-CON	D-2238
	Adamsville SW	Muskingum	137,370	Mum-OX3	D-2244
	Long-Sears	Noble	225,494	Ne-O1	D-2290
	Oxford Mining Co., Inc.	Perry	43,676	Py-O1	D-2254
	New Lex North 2	Perry	555,624	Py-O2	D-2318
	Stone Creek	Tuscarawas	21,030	Ts-H4	D-1149
	Strasburg Slurry	Tuscarawas	2,300	Ts-HC	D-0981
	Cole	Tuscarawas	80,911	Ts-O3	D-2245
	Stone Creek-Keefer	Tuscarawas	229,300	Ts-O4	D-2276
	Chumney	Tuscarawas	228,900	Ts-O5	D-2324
	Page	Tuscarawas	185,201	Ts-O6	D-2325
	Mizer	Tuscarawas	82,253	Ts-O7	D-2329
	Horn	Tuscarawas	39,108	Ts-O8	D-2330
	Standingstone Mine	Harrison	849,548	Hn-O2	D-2277
Ritchie Mining 45887 Jewett-Hopedale Rd. Jewett, OH 43986 (740) 946-1957 Michael J. Ritchie, pres.	Ritchie Pit	Harrison	2,997	Hn-R	D-2284
Rosebud Mining Company 301 Market St. Kittanning, PA 16201 (724) 545-6222 J. Clifford Forest, pres.	Tusky Mine (u)	Tuscarawas	602,111	Ts-TR	D-2177
Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 (740) 384-4211 Dave Zatezelo, pres.	Sands Hill Rockcamp II	Jackson	96,289	Jkn-S2	D-1087
	Big Valley	Vinton	338,395	Vn-S4	D-2114
	Stanton	Vinton	235,249	Vn-S6	D-2311
Schaney Mining 47134 Giacobbi Rd. Jewett, OH 43986 (740) 937-2515 Melvin Schaney, owner	Kuchan	Harrison	3,009	Hn-SM1	D-2195

2009 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL MINE OPERATORS (cont.)

Name, address, telephone number, and perisident/owner/manager of company	Name of mine	County	Production (tons)	State mine number	Mineral Resources Management permit number
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 (740) 849-2394 Jeffrey R. Sidwell, pres.	Uniontown Stone	Belmont	15,688	Bt-S	D-2261
Solomon's Mines, Inc. 7732 Salem-Unity Rd. Salem, OH 44460 (330) 337-0123 Jack Solomon, pres.	Solomon's Mines, Inc.	Columbiana	4,879	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-Carroll Hollow Deep (u)	Carroll	5,739	Cl-S1	D-2091
	Sterling-Shinn Hill (u)	Jefferson	318,051	Jfn-ST2	D-2187
Valley Mining, Inc. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 (740) 922-3942 William C. Aubiel, pres.	Picken/Strip #3	Harrison	144,590	Hn-V	D-2286
	ENZ Mining/Alger #4	Stark	117,648	Sk-208	D-1015
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 (740) 286-5633 T. L. Darlington, Jr., pres.	Mead-Zinn & Layne	Jackson	377,709	Jkn-367	D-0594, D-968, D-1083, D-1167, D-2059
	Green Pit	Vinton	684	Vn-182	D-0631
	Dundas Pit	Vinton	19,232	Vn-191	D-0867, D-0957, D-1004

2009 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 John Nicolozakes, mgr.	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 John 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 Mike Morris, 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
Gallia	Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 (740) 384-4211 Bonny C. Huffman, 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

**2009 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
Harrison	CAM Ohio, LLC 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 T. 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 Donald Thompson, owner	Thompson Bros. Mining Co.	Springfield	Mg-588	D-0711	tipple
Meigs	Meigs Point Dock, LLC P.O. Box 388 New Haven, WV 25265 (304) 255-7458 David Jude, pres.	Meigs Point Dock	Sutton	Ms-M	D-2323	dock
	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
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
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 Bonny C. Huffman, 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

2009 OHIO DIRECTORY OF PRODUCING COAL MINE OPERATORS, BY COUNTY

NOTE: This directory lists only coal-producing operations and excludes tipples; loading docks; preparation plants; or other active, nonproducing operations that would contribute to employment and wage statistics presented in tables 10–11. 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

Name of Company	Name of Mine	Township	Seam		Type of Mine	Production		Disposition		Employment			State Mine number	
			No.	Thick-ness inches		Method	Tonnage	No. of Days	Method	Tonnage	Production			
											Under-ground	Sur-face		Other
BELMONT COUNTY — Total production = 8,977,674 American Energy Corp.	1 Sharon 2 Quakertown 3 Lower Mercer 3A Upper Mercer 3B Tonesta	4 Brookville 4A Clarion 5 Lower Kittanning 5A Strasburg 6 Middle Kittanning	6A Lower Freeport 7 Upper Freeport 7A Mahoning 8 Pittsburgh 8A Pomeroy-Redstone	9 Meigs Creek 11 Waynesburg 12 Washington H Harlem W Wilgus										
	Bennoc 12 Century Mine	Wayne Wayne, Washington	12 8	60 60	Surface UG	strip longwall cont. miner Total	10,833 786,211 125,012 911,223	57 347	truck rail	15,458 882,871	3 58	5 28	Bt-BE Bt-67	
	Shugert Barnesville North Fox Farms	Kirkwood Warren Flushing	8 9 9	42 36 50	Surface Surface Surface	strip strip strip auger Total	12,399 60,715 63,770 49,376 113,146	250 255 170	truck truck truck	12,399 60,715 113,146	7 7 7	2 5 3	Bt-E Bt-J Bt-M11 Bt	
	Hostetler-Hapapuro Powhatan No. 6	Colerain Smith	11 8		Surface UG	strip longwall cont. miner Total	7,558 5,667,395 1,006,455 6,673,850	55 348	truck rail truck Total	7,558 5,277,163 807,703 6,084,866	4 431		167	Bt-1171 Bt-68
Ohio Valley Coal Co.	Badgerstown	Goshen, Union	9	55	Surface	strip auger Total	71,526 249,499 321,025	159	truck	321,025	14	5		Bt-C9
	Barnesville Hospital	Warren	8	50	Surface	strip auger Total	165,922 23,317 189,239	255	truck	189,239	22	3		Bt-OX2
Oxford Mining Co., Inc.	Beagle Club	Richland	9	48	Surface	strip auger Total	119,961 12,181 132,142	265	truck	132,142	13	2		Bt-C8

Oxford Mining Co., Inc.	Flushing	Flushing, Wheeling	9	36	Surface	strip auger <i>Total</i>	45,745 117,913 <i>163,658</i>	106	truck	163,658	19	2	Bt-OX4
	Wheeling Valley	Wheeling	9 11	45 18	Surface	strip auger <i>Total</i>	278,528 87,670 <i>366,198</i>	255	truck	366,198	29	3	Bt-OX5
	Uniontown Stone	Wheeling	8		Surface	strip	15,688	30	truck	15,688	8	4	Bt-S
CARROLL COUNTY — Total production = 85,333 Buckeye Industrial Mining Co.	James South	Rose	6 6A 7	24 36 18	Surface	strip	79,594	219	truck	79,594	16	1	Cl-B4
	Sterling Mining Co.	Fox	7A	36	UG	cont. miner	5,739	40	truck	5,739	30		Cl-S1
COLUMBIANA COUNTY — Total production = 125,213 Amerikohl Mining Inc.	Kelley	Middleton	7	25	Surface	strip	47,685	84	truck	47,685	6		Ca-A4
	Buckeye Industrial Mining Co.	Center	7A	24	Surface	strip	29,787	115	truck	29,787	5	1	Ca-B13
	McClintock	Center	7A	36	Surface	strip	40,671	149	truck	40,671	6	1	Ca-B3
Oxford Mining Co., Inc.	Rogers	West	7A	28	Surface	strip	1,650	10	truck	1,650	1		Ca-850
	Dailey	Elk Run	7	30	Surface	strip	541	1	truck	541	1		Ca-CE2
	Solomon's Mines, Inc.	Salem	7		Surface	strip	4,879	73	truck	4,879	2		Ca-SM
COSHOCTON COUNTY — Total production = 386,438 Oxford Mining Co., Inc.	Plainfield	Linton	6	38	Surface	strip auger <i>Total</i>	189,047 197,391 <i>386,438</i>	255	truck	386,438	22	2	Cn-OX4
GUERNSEY COUNTY — Total production = 20,079 Oxford Mining Co., Inc.	Hall's Knob	Millwood	8	45	Surface	strip auger <i>Total</i>	17,383 2,696 <i>20,079</i>	16	truck	20,079	8		Gy-O
HARRISON COUNTY — Total production = 3,327,188 Anthony Mining Co., Inc.	Carson Adjacent	Green	8 8A	56 20	Surface	strip	17,794	64	truck	17,794	8	3	Hn-766
	Patton-Mader	German	H	20	Surface	strip	20,220	255	truck	20,220	8	1	Hn-A
	Hopedale Mine	Green	6A	58	UG	cont. miner	1,493,719	357	rail truck other <i>Total</i>	1,496,630 4,144 13 <i>1,500,787</i>		24	Hn-169

2009 OHIO DIRECTORY OF PRODUCING COAL MINE OPERATORS, BY COUNTY (cont.)

Name of Company	Name of Mine	Township	Seam		Type of Mine	Production			Disposition		Employment			State Mine number
			No.	Thick-ness inches		Method	Tonnage	No. of Days	Method	Tonnage	Under-ground	Production	Other	
Harrison Resources LLC	Sexton 2	Athens	8 8A 9	52 19 45	Surface	strip auger	678,317 2,910	302	rail truck	77,967 603,260		42	7	Hn-H
Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Monroe	6	28	Surface	<i>Total</i> strip	<i>681,227</i> 1,619	3	<i>Total</i> truck	<i>681,227</i> 1,619		2		Hn-K
Oxford Mining Co., Inc.	CR #29	Athens	9	44	Surface	strip	112,465	200	truck	112,465		19	1	Bt-CON
Oxford Mining Co., LLC	Standingstone Mine	Cadiz	8 8A 9	50 18 36	Surface	strip auger	841,579 7,969	255	truck	849,548		54	6	Hn-O2
Ritchie Mining	Ritchie Pit	Green	8, 8A	54, 20	Surface	<i>Total</i> strip	<i>849,548</i> 2,997	39	truck	2,997		1		Hn-R
Schaney Mining	Kuchan	Green	8	40	Surface	strip	3,009	41	truck	3,009		2		Hn-SM1
Valley Mining, Inc.	Picken/Strip #3	Athens	8, 9	54, 34	Surface	strip	144,590	226	truck	144,590		19	10	Hn-V
JACKSON COUNTY — Total production = 475,561														
Cedar Heights Clay Co.	Harrison	Madison	5		Surface	strip	730		truck	730				Jkn-CH2
	Phillips	Madison	5		Surface	strip	833		truck	833				Jkn-CH3
Sands Hill Coal Co., Inc.	Sands Hill Rockcamp II	Milton	4A 5 6 7	40 19 8 15	Surface	strip	96,289		truck water	43,831 52,458				Jkn-S2
Waterloo Coal Co., Inc.	Mead-Zinn & Layne	Madison, Bloomfield, Jefferson	4 5 6		Surface	strip			<i>Total</i> truck	<i>96,289</i> 377,709		42	2	Jkn-367
JEFFERSON COUNTY — Total production = 2,989,376														
Anthony Mining Co., Inc.	Lions Club Adjacent	Smithfield	8 8A	56 16	Surface	strip	39,275	253	truck	39,275		9	4	Jfn-AN
Buckeye Industrial Mining Co.	Snyder DM #10	Ross	7	40	UG	cont. miner	476,007	120	truck	476,007	23		6	Jfn-BI
F. & M. Coal Co.	Grabbit Pit	Smithfield, Green	8 8A	54 16	Surface	strip	10,776	104	truck	10,776		12		Jfn-FM1
Ohio American Energy, Inc.	Salt Run	Wells	8	54	Surface	strip auger highwall <i>Total</i>	93,462 20,547 390,387 <i>504,396</i>	170	truck	387,416		33	9	Jfn-M

Ohio American Energy, Inc.	Star Lake	Wells, Steubenville	8	54	Surface	strip auger highwall Total	552,998 14,429 274,143 841,570	210	truck	677,675	41	10	Jfn-O3
	Star Ridge	Wells	8	54	Surface	strip auger highwall Total	286,882 25,621 486,798 799,301	193	truck	610,304	41	9	Jfn-O2
	Sterling-Shinn Hill	Brush Creek	7	36	UG	cont. miner	318,051	252	truck	318,051	47	10	Jfn-ST2
MAHONING COUNTY — Total production = 8,143	D. & D. Strip	Springfield	5	30	Surface	strip	7,834	22	truck	3,908	4	4	Mg-D
	East Fairfield Coal Co.	Springfield	4	22	Surface	strip	309	40	truck	309	4		Mg-E
	MEIGS COUNTY — Total production = 296,049	Sutton	8A	72	UG	cont. miner	296,049	268	water	277,230	39	6	Ms-G
MONROE COUNTY — Total production = 5,111,400	Century Mine	Sunbury	8	60	UG	longwall cont. miner Total	4,410,157 701,243 5,111,400	347	rail	4,953,345	380	77	Bt-67
MUSKINGUM COUNTY — Total production = 137,370	Adamsville SW	Washington	6	36	Surface	strip auger Total	103,973 33,397 137,370	255	truck	137,370	19	2	Mum- OX3
NOBLE COUNTY — Total production = 741,894	Estadt Mine	Stock	10	36	Surface	strip	61,051	256	truck	61,051	6	1	Ne-BN
	Mantel Mine	Jefferson, Elk	9	36	Surface	strip	160,792	256	truck	160,792	14	1	Ne-BN7
	Westfork Mine	Jefferson	9	36	Surface	strip	152,641	256	truck	152,641	12	1	Ne-BN5
	Whigville II	Marion	9	42	Surface	strip	64,249	128	truck	64,249	13	1	Ne-BN6
	Whigville III	Marion	9	42	Surface	strip	77,667	128	truck	77,667	11	1	Ne-BN8
	Long-Sears	Beaver	9	50	Surface	strip auger Total	208,004 17,490 225,494	253	truck	225,494	20	2	Ne-O1
PERRY COUNTY — Total production = 1,978,726	Buckingham Coal Mine No. 7	Monroe	7	60	UG	cont. miner	420,899	192	rail	415,696	44	30	Py-B1
	Buckingham Mine No. 6	Monroe	6	72	UG	cont. miner	958,527	263	rail truck Total	984,828 7,122 991,950	85	35	Py-B2

2009 OHIO DIRECTORY OF PRODUCING COAL MINE OPERATORS, BY COUNTY (cont.)

Name of Company	Name of Mine	Township	Seam		Type of Mine	Production			Disposition		Employment			State Mine number
			No.	Thick-ness inches		Method	Tonnage	No. of Days	Method	Tonnage	Under-ground	Production	Other	
Oxford Mining Co., Inc.	New Lex North 2	Clayton	5	42	Surface	strip	555,624	255	rail	555,624		44	5	Py-O2
	Oxford Mining Co., Inc.	Clayton	6	52	Surface	strip	43,676	490	rail	43,676		8	2	Py-O1
STARK COUNTY — Total production = 415,596														
Buckeye Industrial Mining Co.	Berlin Minerals	Sandy, Pike	5	20	Surface	strip	99,424	198	truck	99,424		12	1	Sk-BI3
	Close	Pike	6	28	Surface	strip	14,512	35	truck	14,512		1		Sk-B
	Freed	Paris	6	28	Surface	strip	10,252	12	truck	10,252		3	1	Sk-B10
	Weisel	Paris	6	28	Surface	strip	20,554	74	truck	20,554		7	1	Sk-B14
	Wilson	Sandy	5	30	Surface	strip	99,242	198	truck	99,242		15	1	Sk-B15
Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Pike	4	28	Surface	strip	26,108	98	truck	31,092		3		Sk-K
			5	28	Surface	auger	4,984							
Valley Mining, Inc.	Kimble Clay & Limestone Co.	Pike	4	28	Surface	strip	22,466	76	truck	22,872		7		Sk-P
			5	28	Surface	auger	406							
	ENZ Mining/Alger #4	Sandy, Pike	4	48	Surface	strip	100,987	215	truck	117,648		12	10	Sk-208
					Surface	auger	16,661							
TUSCARAWAS COUNTY — Total production = 1,654,921														
Belden Brick Co.	Moonaw Pit	Sugar Creek	4	16	Surface	strip	3,881	25	truck	3,881		4		Ts-1517
	Shanesville Pit	Sugar Creek	4	16	Surface	strip	2,311	20	truck	2,311		5		Ts-1939
	Wallick Pit	Franklin, Wayne	4	20	Surface	strip	9,833	60	truck	9,833		4		Ts-1841
Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	York	5	28	Surface	strip	4,129	13	truck	6,521		8		Ts-K7
					Surface	auger	2,392							
	Kimble Clay & Limestone Co.	Sugar Creek	3A	28	Surface	strip	19,170	50	truck	19,170		2		Ts-K4
			4	28	Surface	strip	6,521							
	Kimble Clay & Limestone Co.	Dover	4	28	Surface	strip	23,487	46	truck	23,487		3		Ts-1727
			5	28	Surface	strip								
	Kimble Clay & Limestone Co.	York	6	28	Surface	strip	31,307	32	truck	31,307		4		Ts-K12
					Surface	strip								
	Kimble Clay & Limestone Co.	Salem, Clay	5	28	Surface	strip	59,936	123	truck	78,046		7		Ts-K10
			6	28	Surface	auger	18,110							
L & M Mineral Co.	Luikart	Mill, Warwick	7		Surface	strip	78,046							
					Surface	strip	9,251	10	truck	9,251		6	6	Ts-1914

Oxford Mining Co., Inc.	Chumney	Fairfield	6	54	Surface	strip auger <i>Total</i>	117,794 111,106 <i>228,900</i>	255	truck	228,900		18	2	Ts-O5
	Cole	Rush	7	33	Surface	strip auger <i>Total</i>	77,201 3,710 <i>80,911</i>	120	truck	80,911		17	2	Ts-O3
	Horn	York	5 6	34 36	Surface	strip auger <i>Total</i>	33,954 5,154 <i>39,108</i>	73	truck	39,108		5		Ts-O8
	Mizer	York	5 6	34 36	Surface	strip auger <i>Total</i>	72,676 9,577 <i>82,253</i>	103	truck	82,253		7	1	Ts-O7
	Page	Goshen	7	28	Surface	strip auger <i>Total</i>	165,584 19,617 <i>185,201</i>	255	truck	185,201		19	2	Ts-O6
	Stone Creek	York	7	30	Surface	strip	21,030	47	truck	21,030		3		Ts-H4
	Stone Creek-Keefer	Clay	5 6	30 38	Surface	strip	229,300	255	truck	229,300		14	2	Ts-O4
	Strasburg Slurry	Lawrence, Franklin	4	18	Surface	strip	2,300	0	truck	2,300		3		Ts-HC
	Tusky Mine	Mill	6	40	UG	cont. miner	602,111	277	rail truck <i>Total</i>	120,000 482,111 <i>602,111</i>	65		20	Ts-TR
	VINTON COUNTY — Total production = 593,560													
Sands Hill Coal Co., Inc.	Big Valley	Wilkesville, Vinton	4A 5 6 7	42 20 8 15	Surface	strip	338,395	240	truck water	152,064 181,960	68	65		Vn-S4
	Stanton	Wilkesville	4A 5	42 25	Surface	strip	235,249		<i>Total</i> truck water <i>Total</i>	<i>334,024</i> 105,713 126,497 <i>232,210</i>				Vn-S6
	Dundas Pit	Clinton	5 6 7		Surface	strip	19,232	25	truck	19,232		4		Vn-191
Waterloo Coal Co., Inc.	Green Pit	Madison	7		Surface	strip	684	1	truck	684		1		Vn-182

2009 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 2008.
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	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Addy Sand & Gravel 21301 County Rd. 106 P.O. Box 52 Newcomerstown, OH 43832 (740) 502-9598 Gerald L. Addy, owner	Addy	Coshocton	sand & gravel			Cn-AD	IM-971
Agg Rok Materials 711 Frank Rd. Columbus, OH 43223 (614) 875-5500 William G. Heffner, pres.	Agg Rok	Franklin	sand & gravel	235,611	238,378	Fn-36	IM-302
Alden Excavating 2504 Northampton Rd. Cuyahoga Falls, OH 44223 (330) 928-3249 Connie Ensign, pres.	Alden Excavating	Summit	sand & gravel	6,485	6,485	St-55	IM-589
Allgeier & Son, Inc. 6386 Bridgetown Rd. Cincinnati, OH 45248 (513) 574-3735 Michael E. Allgeier, pres.	Allgeier & Son, Inc.	Hamilton	sand & gravel	25,000	25,000	Hmn-C	IM-1132
	Allgeier & Son, Inc. Pit 1	Hamilton	sand & gravel	25,000	25,000	Hmn-AS1	IM-797
	Allgeier & Son, Inc. Pit 2	Hamilton	sand & gravel	50,000	50,000	Hmn-AS	IM-1106
Alvis Landscape/Golf Course P.O. Box 253 Miami town, OH 45401 (513) 353-3333 James H. Alvis, pres.	Ross	Butler	sand & gravel	34,762	34,762	Br-A	IM-2246
American Sand & Gravel, Inc. 9500 Forty Corners Rd. NW Massillon, OH 44647 (330) 832-8888 Christopher A. Scala, pres.	Plant #4	Stark	sand & gravel	475,730	475,730	Sk-243	IM-908
	Plant #6	Stark	sand & gravel	30,550	30,550	Sk-RO	IM-2084
Anchor-Land, Ltd. P.O. Box 648 St. Clairsville, OH 43950 (740) 695-7237 C. F. Dawson, owner	Anchor Limestone	Belmont	limestone	104,847	104,847	Bt-A	IM-2148
Anthony Mining Co., Inc. P.O. Box 1298 Steubenville, OH 43952 (740) 268-8100 Albert Carapellotti, pres.	Patton-Mader	Harrison	limestone	36,781	36,781	Hn-A	IM-2247
Apex Environmental, LLC 11 County Rd. 78 P.O. Box 151 Amsterdam, OH 43903 (412) 562-1700 Ross Patton, pres.	Apex	Jefferson	limestone			Jfn-K	IM-1164
Arch Materials, LLC 4438 State Route 276 Batavia, OH 45108 (513) 724-7625 Ben Rechter, pres.	Batavia	Clermont	limestone	236,949	430,550	Ct-A	
	Woodville Plant	Sandusky	limestone	102,372	102,372	Sy-A	IM-2227
Area Aggregates, LLC 4755 South High St. Columbus, OH 43207 (614) 491-1515 Kenneth Holland, pres.							

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Ashcraft Sand & Gravel, Inc. 5850 Dry Fork Rd. Cleves, OH 45002 (513) 367-5700 Rick and Larry Ashcraft, owners	Ashcraft Sand & Gravel, Inc.	Hamilton	sand & gravel	1,550	1,550	Hmn-54	IM-710
Athens Hocking Reclamation Center 450 Gallagher Ave. P.O. Box 946 Logan, OH 43138 (740) 385-6019 Edward F. Kilbarger, pres.	Athens Hocking Reclamation Clay Mine	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	7,080	7,080	Wn-54	IM-383
Baker Sand, Inc. 7800 White Rd. Burbank, OH 44214 (330) 948-1448 John E. Baker, pres.	Baker Sand, Inc.	Medina	sand & gravel	259,000	259,000	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	71,211	71,211	Pe-BA	IM-1327
Barrett Paving Materials, Inc. P.O. Box 13671 Dayton, OH 45413 (937) 424-9100 Marc Zehnder, plants mgr	Barrett Paving Materials, Inc.	Clark	sand & gravel	362,222	353,717	Ck-28	IM-1100, IM-2120
	Hardin Sand & Gravel	Shelby	sand & gravel	180,814	189,569	Shy-SC	IM-1018
	Jones Deposit	Shelby	sand & gravel			Shy-18	IM-388
	Schmidt Deposit	Shelby	sand & gravel			Shy-SC1	IM-2017
	Schmidt Deposit	Shelby	sand & gravel			Shy-11	IM-743
Barrett Paving Materials, Inc. 5325 Medway Rd. Fairborn, OH 45324 (937) 878-8631 Steve Hurley, plant mgr.	Fairborn Aggregate Plant	Greene	sand & gravel	282,105	141,757	Ge-4 Ge	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	364,538	314,803	My-19	IM-401, IM-916
Barrett Paving Materials, Inc. Mid-Ohio 3244 S. Davis Rd. Ludlow Falls, OH 45339 (937) 698-3043 Jim Meckstroth, reg. mgr.	Barrett Paving Materials, Inc. - #231	Miami	limestone	302,069	204,189	Mi-BPM	IM-1169
	Bed Rock Properties	Miami	limestone	832		Mi-502	IM-414
	Miami River Quarry	Shelby	limestone	332,893	356,242	Shy-17	IM-389
			sand & gravel	12,060			
	Rock Run	Shelby	sand & gravel			Shy-16	IM-411
	Staley Pit	Shelby	sand & gravel	5,724	8,488	Shy-SS	IM-438
	Vandemark Quarry #221	Shelby	limestone	23,103		Shy-15	IM-387

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Bartley & Bolin Excavating 1242 County Rd. 1475 Ashland, OH 44805-9277 (419) 289-1507 Mitchell W. Bolin, owner	Bartley & Bolin, Inc. James Plant	Ashland	sand & gravel	100,183	100,183	Ald-B	IM-2141
	McNaul Road Plant	Richland	sand & gravel	28,946	28,946	Rd-20	IM-617
Bear Creek Clay Co. 11123 State Route 37 E New Lexington, OH 43764 (740) 342-5473 Tom L. Dennis, owner	County Rd. 7 Mine Nelson/Common Mine	Perry	clay			Py-338	IM-1092
		Perry	clay	22,500	22,500	Py-D1	IM-1304
			shale	23,200	23,200		
Beaver Excavating, Inc. 2000 Beaver Place Ave. SW P.O. Box 6059 Canton, OH 44706 (330) 478-2151 W. Mark Sterling, pres.	Stone Products	Stark	sand & gravel			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	222,404	222,404	Pe-50	IM-96
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 (330) 852-2424 Robert F. Belden, pres.	Beagle Pit	Tuscarawas	clay			Ts-1960	IM-48
	Belden Pit	Tuscarawas	clay	18,432	18,432	Ts-1646	IM-44
			shale	21,853	21,853		
	Dundee Pit	Tuscarawas	clay			Ts-BB	IM-1221
			limestone				
	Moomaw Pit	Tuscarawas	clay	38,370	38,370	Ts-1517	IM-46
			limestone	7,203	7,203		
	Plotner Pit	Tuscarawas	clay	3,225	3,225	Ts-B	IM-49
			shale				
	Shanesville Pit	Tuscarawas	clay	46,089	46,089	Ts-1939	IM-47
Benjamin's Farm, Inc. 10570 Frost Rd. Mantua, OH 44255 (330) 274-3293 John R. Benjamin, pres.			limestone	24,372	24,372		
			shale	160,124	160,124		
	Wallick Pit	Tuscarawas	clay	47,585	47,585	Ts-1841	IM-45
			limestone	30,651	30,651		
			shale	1,441	1,746		
	Benjamin's Farm, Inc.	Portage	sand & gravel			Pe-BF	IM-2163
Best Sand Corp. 11830 Ravenna Rd. Chardon, OH 44024 (440) 285-3132 Charles D. Fowler, pres.	Best Sand Corp.	Geauga	sandstone	522,076	522,076	Gea-3	IM-89
	Best Sand Corp.	Pike	sandstone	37,168	37,158	Pke-31	IM-835
Black Top Contracting, Inc. PO Box 426 Nelsonville, OH 45764 (740) 753-1181 Tim Maiden, pres.	Black Top #1 York Twp. Trustees	Athens	sand & gravel			As-588	IM-630
		Athens	sand & gravel	19,801	19,801	As-BT	IM-1350

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Blue Jay Enterprises of Tuscarawas County, Inc. P.O. Box 641 Zoar, OH 44697 (330) 874-2048 Leland D. Ervin, pres.	Blue Jay #1	Tuscarawas	clay			Ts-BJ	IM-1285
Bluffton Stone Co. P.O. Box 26 Bluffton, OH 45817-0026 (419) 358-6941 Brent C. Gerken, pres.	Bluffton Stone Co.	Allen	limestone	263,327	281,777	An-1	IM-485
Richard Bonner PO Box 1359 Middlefield, OH 44062 (216) 409-2505 Richard Bonner, pres.	Richard Bonner	Portage	sand & gravel			Pe-SM	IM-499
Bontrager Excavating Co. 11087 Cleveland Ave. NW Uniontown, OH 44685 (330) 499-8775 Daniel Bontrager, pres.	Gilbert	Summit	sand & gravel	4,081	4,081	St-B	IM-2303
Boone Coleman Construction, Inc. 32 State Route 239 West Portsmouth, OH 45663 (740) 858-6661 Boone Coleman, pres.	Boone Coleman Construction, Inc.	Scioto	sand & gravel	153,945	153,945	So-BC	IM-1252
	Coleman Pit	Scioto	sand & gravel	60	60	So-B	IM-705
Bowerston Shale Co. 1329 Seven Hills Rd. NE Newark, OH 43055 (740) 763-3921 Mark Willard, pres.	Hanover	Licking	shale	11,180	11,180	Lg-501	IM-257
	Frazeysburg	Muskingum	clay	7,280	7,280	Mum-776	IM-256
Bowerston Shale Co. 515 Main St. P.O. Box 199 Bowerston, OH 44695 (740) 269-2921 Mark Willard, pres.	Bowerston	Harrison	shale	27,616	27,616	Hn-152	IM-42
	Scott Farm	Harrison	clay			Hn-B	IM-1020
Boyas Excavating, Inc. 11311 Rockside Rd. Cleveland, OH 44125-4247 (216) 524-3620 Michael Boyas, pres.	Boyas Excavating, Inc.	Cuyahoga	clay	318	318	Cya-42	IM-686
			sand & gravel	20,512	20,512		
Boyd Excavating 9553 County Rd. 28 Zanesfield, OH 43360 (937) 465-3290 Jeff Boyd, owner	Boyd Excavating	Logan	sand & gravel	2,510	9,960	Lgn-B	IM-1309

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Briar Hill Stone Co. P.O. Box 457 Glenmont, OH 44628 (330) 377-5100 F. L. Waller, pres.	Quarry #56	Coshocton	sandstone			Cn-BH	IM-2147
	Quarry #18	Coshocton	sandstone			Cn-695	IM-402
	Quarry #24	Coshocton	sandstone			Cn-692	IM-294
	Quarry #26	Coshocton	sandstone			Cn-13	IM-397
	Quarry #3	Coshocton	sandstone			Cn-659	IM-232
	Quarry #32	Coshocton	sandstone	154	154	Cn-686	IM-504
	Quarry #54	Coshocton	sandstone			Cn-809	IM-909
	Quarry #55	Coshocton	sandstone	7,939	7,939	Cn-815	IM-939
	Quarry #31	Holmes	sandstone			Hs-49	IM-418
	Quarry #6	Knox	sandstone			Kx-12	IM-445
Briggs Sand & Gravel, Inc. 1905 Blue Knob Rd. Marietta, OH 45750 (740) 373-3363 James A. Briggs, pres.	Briggs Sand & Gravel, Inc.	Washington	sand & gravel	6,752	6,752	Wn-508	IM-57
Brookside Materials, LLC 2850 Rohr Rd. Groveport, OH 43215 (740) 739-4637 Gerald E. Bennett, pres.	Brookside Materials, LLC	Licking	clay sand & gravel	6,500 65,000	6,500 75,000	Lg-B	IM-2273
Broshear Contractors, Inc. 2520 Millville-Ross Rd. Hamilton, OH 45013 (513) 863-3388 Gerald Broshear, pres.	Green Heron	Butler	sand & gravel	42,948	42,948	Br-B	IM-2029
	Ross Twp. Gravel	Butler	sand & gravel			Br-48	IM-562
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 (330) 337-9511 John C. Grisham, pres.	James South	Carroll	clay			Cl-B4	D-2229
	Ingledue	Columbiana	clay			Ca-B1	D-2003
	Peters Run	Columbiana	clay	14,059	14,059	Ca-BIM	IM-1271
	West Point	Columbiana	clay			Ca-987	D-0928
	Baird	Stark	clay			Sk-B4	D-2096
	Berlin Minerals	Stark	clay	20,569	20,569	Sk-BI3	D-2267
	Close	Stark	clay			Sk-B	D-1123
	Coy	Stark	clay			Sk-BI2	D-2145
	Weisel	Stark	clay			Sk-BI4	D-2288
Marilyn J. Burkholder, Trust 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) 867-0473 Vernon E. Collier, owner	Burlington Sand & Gravel Co.	Lawrence	sand & gravel			Le-426	IM-856
Richard and Kathy Burwinkel 5915 Dry Ridge Rd. Cincinnati, OH 45252 (513) 385-7131 Richard & Kathy Burwinkel, owners	Burwinkel	Hamilton	sand & gravel			Hmn-RB	IM-2333

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
C & S Contractors, Inc. PO Box 498457 Cincinnati, OH 45249 (513) 530-9844 Raymond A. Conn, pres.	C & S Contractors, Inc.	Warren	sand & gravel			Wan-47	IM-846
C. F. Poeppelman, Inc. 4755 North State Route 721 Bradford, OH 45308 (937) 448-2191 James C. Poeppelman, pres.	C. F. Poeppelman, Inc.	Miami	limestone	255,760	255,760	Mi-10	IM-335
Capstone Rock Products, LLC 17843 State Route 7 Marietta, OH 45750 (740) 373-2252 David Brian Page, mgr.	Fletcher	Knox	sandstone	1,220	1,220	Kx-C	IM-2128
Cardinal Aggregates, Inc. 8026 Fremont Pike Perrysburg, OH 43551 (419) 872-4380 Philip Elsel, ops. mgr.	Cardinal Aggregates LLC	Wood	limestone	226,200	226,200	Wd-C	IM-2231
Cargill Incorporated Cargill Deicing Technology 2400 Ships Channel P.O. Box 6920 Cleveland, OH 44101 (440) 716-4664 Dale Fehrenbach, pres.	Cargill Deicing Technology Cargill Incorporated	Cuyahoga Summit	salt salt	3,810,355 321,941	3,757,180 316,996	Cya-30 St-9127	
Carl E. Oeder and Sons Sand & Gravel 1000 West Mason-Morrow Millgrove Lebanon, OH 45036 (513) 494-1238 Carl E. Oeder, pres.	Carl E. Oeder and Sons Sand & Gravel	Warren	sand & gravel	351,844	351,844	Wan-41	IM-629
Carmeuse Lime Inc. P.O. Box 708 Bettsville, OH 44815 (419) 986-2000 Thomas Buck, pres.	Millersville Plant Woodville Plant Maple Grove	Sandusky Sandusky Seneca	limestone limestone limestone	268,002 77,000 1,525,382	280,000 77,000 1,525,382	Sy-4 Sy-3 Sa-2	IM-381 IM-282 IM-352
Carter & Carter, Inc. PO Box 266 Miamisburg, OH 45343-0266 (937) 859-5414 Charles V. Carter, pres.	Carter & Carter, Inc.	Montgomery	sand & gravel	307	307	My-CW	IM-878
Joe E. Carter 21399 State Line Rd. Lawrenceburg, IN 47025 (812) 537-3970 Joe E. Carter, owner	Lost Bridge	Hamilton	sand & gravel	1,450	1,450	Hmn-JC	IM-1267
Cedar Heights Clay Co. P.O. Box 295 Oak Hill, OH 45656-0295 (412) 494-4491 William T. Brown, pres.	Harrison Phillips	Jackson Jackson	clay clay	6,793	6,793	Jkn-CH2 Jkn-CH3	IM-1302 IM-2035

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
CEMEX, Inc. 3250 Linebaugh Rd. Xenia, OH 45385 (937) 878-8651 Bernard P. McCormick, plant mgr.	Miller, Schieder, Batdorf, Stewart	Greene	limestone clay	438,213	438,213	Ge-8	IM-364
	G-Tract	Montgomery	limestone	59,808	59,808	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.	Stark	sand & gravel	26,500	26,500	Sk-681	IM-164
	Central Sand & Gravel Div.	Stark	sand & gravel	405,704	405,704	Sk-CA1	IM-2140
	Massillon Washed Gravel Div.	Stark	sand & gravel	27,000	27,000	Sk-MW	IM-1171
	Massillon Washed Gravel Div.	Stark	sand & gravel	128,583	128,583	Sk-607	IM-102
Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732-0098 (740) 558-7213 Robert P. King, pres.	Muskingum	Morgan	limestone			Mon-C1	IM-2301
Chesterville Sand & Gravel Co., Inc. State Route 95 E P.O. Box 51 Chesterville, OH 43317 (419) 768-3369 David W. Gleason, v. pres.	Chesterville Sand & Gravel Co., Inc.	Morrow	sand & gravel	221,970	221,970	Mw-10	IM-258
Christman Quarries 47278 Swazey Rd. Lewisville, OH 43754 (740) 838-2475 Kathy L. Dimmerling, owner	Christman Quarry	Monroe	limestone	83,920	83,920	Me-C	IM-1088
City Stone, LLC 8063 Southern Blvd. Boardman, OH 44512 (800) 758-0841 Ronald R. Carrocce, pres.	City Stone, LLC	Mahoning	sandstone	117,184	117,184	Mg-62	IM-599
	City Stone, LLC	Trumbull	sandstone	879	879	Tl-CA	IM-2085
Harlen D. & Barbara L. Clark 11535 County Rd. 16 Wauseon, OH 43567 (419) 335-2234 Harlen D. Clark, pres.	Clark	Fulton	sand & gravel	6,675	6,675	Ftn-C	IM-2274
Clemson Excavating, Inc. 9954 Old State Rd. Chardon, OH 44024 (440) 286-4757 Bill Clemson, pres.	Clemson Excavating Sand & Gravel	Ashtabula	sand & gravel	1,455	1,455	Asa-C	IM-1278
Cochran Transportation Services, Inc. PO Box 578 Athens, OH 45701 (740) 593-3906 Charles W. Cochran, pres.	Circle Hill	Athens	sand & gravel	37,259	37,259	As-595	IM-1083
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

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Con-Ag, Inc. 16672 County Rd. 66A N St. Marys, OH 45885 (419) 394-8870 John R. Hirschfeld, pres.	Con-Ag, Inc.	Auglaize	limestone	190,368	190,368	Ae-31	IM-744
County Line Concrete & Supply Co. P.O. Box 176 Gnadenhutten, OH 44629 (740) 254-4635 William E. Stocker, chairman	County Line Concrete & Supply Co.	Coshocton	sand & gravel			Cn-C	IM-1311
Cremeans Concrete & Supply P.O. Box 475 Gallipolis, OH 45631 (740) 446-1142 John Cremeans, pres.	Cremeans Concrete & Supply Co., Inc.	Gallia	sand & gravel	6,783	6,783	Ga-626	IM-1046
Crushers Stone Products, LLC 7000 Columbus Rd. Shreve, OH 44676 (330) 263-7350 Dan Stauffer, Sr., pres.	Crushers Stone Products, LLC	Wayne	sandstone			We-25	IM-1209
Cumberland Limestone, LLC 53681 Spencer Rd. Cumberland, OH 43732 (740) 638-3942 Chris D. Sidwell, pres.	Cumberland Limestone, LLC	Guernsey	limestone	277,114	277,114	Gy-309	IM-1030
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	696,782	641,819	Wd-5	IM-473
D. & D. Mining Co. 3379 East 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 clay sandstone			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	69,660	69,660	Pe-101	IM-1154
D. H. Bowman & Sons, Inc. 1201 Mill St. Bellville, OH 44813-1282 (740) 886-2711 Jeff Ellis, pres.	D. H. Bowman & Sons, Inc.	Richland	sand & gravel	33,500	85,696	Rd-4	IM-279, IM-1255

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources 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	76	76	Fn-14	IM-832
D.C. Engineering and Development Ltd. 329 Mabel Court London, OH 43140 (740) 206-2101 Charles W. Duvall, pres.	D.C. Engineering	Madison	sand & gravel			Mdn-D	IM-2338
Darby Creek Excavating, Inc. 6790 Brooksmiller Rd. Circleville, OH 43113 (740) 833-1910 Kevin R. Steward, pres.	Darby Creek Excavating, Inc.	Pickaway	sand & gravel			Pky-DC	IM-1316
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	sand & gravel			Ck-501	IM-340
Demmy Sand & Gravel 4324 Fairfield Pike Springfield, OH 45502 (937) 323-4079 Daniel Demmy, pres.	Deam Demmy Sand & Gravel	Clark Clark	sand & gravel sand & gravel	11,096	11,096	Ck-LG Ck-502	IM-2073 IM-375
D.G.M., Inc. 453 Salisbury Rd. Beaver, OH 45613 (740) 820-3145 Mark A. Salisbury, pres.	Towpath-Warwick Tow Path Ready Mix	Ross Scioto	sand & gravel sand & gravel	40,672 67,192	40,672 67,192	Rs-D So-DGM	IM-2176 IM-1280
Diamond Stone Quarries PO Box 315 McArthur, OH 45651 (740) 596-5226 W. E. Engle, pres.	Diamond Stone	Athens	limestone	15,229	15,229	As-533	IM-17
DiGeronimo Aggregates, LLC 5531 Canal Rd. Valley View, OH 44125 (216) 524-2950 Victor DiGeronimo, Jr., pres.	DiGeronimo Aggregates, LLC	Cuyahoga	shale	111,289	111,289	Cya-19	IM-95
Dingledine Basic Materials, Inc. 2304 Somerville Rd. PO Box 262 Somerville, OH 45064 (513) 726-5258 Gerald Dingledine, pres.	Dingledine Basic Materials, Inc.	Butler	sand & gravel	55,357	55,357	Br-50	IM-739

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
John R. Doherty 2229 Walnut Blvd. Ashtabula, OH 44004 (440) 964-8431 John R. Doherty, pres.	Doherty	Ashtabula	sand & gravel	115	115	Asa-JD	IM-2250
James E. Downard 1185 Mount Zwingli Rd. Bremen, OH 43107 (740) 569-7849 James E. Downard, owner	Downard Pit	Fairfield	sand & gravel	2,262	2,262	Fd-16	IM-1156
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.	Logan	sand & gravel			Lgn-39	IM-887
	Duff Quarry, Inc.	Logan	sand & gravel	612	612	Lgn-36	IM-1007
	Duff Quarry, Inc.	Logan	limestone	356,305	356,305	Lgn-15	IM-453
	Duff Quarry, Inc.	Logan	sand & gravel			Lgn-12	IM-1071
	Duff Sand Co.	Logan	sand & gravel	3,568	3,568	Lgn-31	IM-454
E. E. Blair Construction Co. 9540 Ohio River Rd. P.O. Box 39 Wheelersburg, OH 45694 (740) 574-6575 Edwin E. Blair, pres.	Cab Pit	Scioto	sand & gravel	27,500	27,500	So-98	IM-474
	E. E. Blair	Scioto	sand & gravel			So-BL	IM-2220
East Clayton Asphalt, Inc. 700 State Route 278 P.O. Box 543 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.	Garfield Road	Mahoning	clay limestone	2,083	2,083	Mg-EF	IM-2101
	Subtropolis	Mahoning	limestone	882,000	882,000	Mg-EF1	IM-2093
	Withers-Petersburg	Mahoning	limestone		27,745	Mg-631	IM-1103
David E. Edgington P.O. Box 282 Frankfort, OH 45628 (740) 998-5328 David E. Edgington, owner	Edgington Pit	Ross	sand & gravel	2,838	2,838	Rs-E	IM-1168
Egypt Valley Stone, LLC P.O. Box 188 Morristown, OH 43759 (740) 782-0042 Richard Petrozzi, pres.	Shugert	Belmont	limestone	128,316	128,316	Bt-E	IM-2299
Enon Sand & Gravel, LLC 11641 Mosteller Rd. Cincinnati, OH 45241 (513) 771-0820 James P. Jurgensen, pres.	Enon Sand & Gravel, LLC	Clark	sand & gravel	432,426	432,426	Ck-3	IM-463, IM-1359, IM-2026
Envirosafe Services of Ohio, Inc. 876 Otter Creek Rd. Oregon, OH 43616 (419) 698-3500 Douglas E. Roberts, pres.	Johlin Property Clay Mine	Lucas	clay	47,440		Ls-E	IM-1075, IM-2116

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
ENZ, Inc. P.O. Box 405 Magnolia, OH 44643 (330) 866-4510 James R. Demuth, pres.	Baum	Stark	sand & gravel			Sk-E	IM-2230
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	199,206	199,206	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	500	500	Ee-18	IM-676
Ervin Hill Enterprises, Inc. P.O. Box 559 Hillsboro, OH 45133 (937) 393-4120 Mark Edenfield, pres.	Ervin Hill Enterprises, Inc.	Highland	sand & gravel	79,455	79,455	Hd-L	IM-1297
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 limestone limestone	5,700 15,618	9,050 15,618	Ls-12 Mg-608 Mg-EM	IM-953 IM-4 IM-1056
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	36,934 49,118	79,204 138,811	Ct-9 Hmn-E	IM-526 IM-2181
Feikert Sand & Gravel, Inc. 6871 Twp. Rd. 605 Millersburg, OH 44654 (330) 674-7245 Lynn O. Feikert, pres.	Feikert Sand & Gravel, Inc.	Holmes	sand & gravel	118,531	118,531	Hs-511	IM-1048, IM-1240
Fleming Construction Co., Inc. dba Scioto S & G P.O. Box 31 Marion, OH 43301-0031 (740) 494-2177 Sonja E. Fleming, pres.	Pit #1 Pit #2	Marion Marion	sand & gravel sand & gravel	13,452 55,430	13,452 55,430	Mn-16 Mn-19	IM-171 IM-990
Flesher Sand & Gravel, Inc. 2795 Barber Rd Norton, OH 44203 (330) 745-9191 James E. Fisher, Jr., 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	sand & gravel	71,925	71,925	Dke-4	IM-433

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Lloyd B. Fry 10328 Hardin Rd. Piqua, OH 45356 (937) 773-1940 Lloyd B. Fry, owner	Lloyd B. Fry	Miami	sand & gravel	763	763	Mi-T	IM-696
Frye Sand & Gravel, Inc. P.O. Box 3 Dorset, OH 44032-0003 (440) 858-2627 Mary L. Frye, owner	Frye Sand & Gravel, Inc. Frye Sand & Gravel, Inc.	Ashtabula Ashtabula	sand & gravel sand & gravel	79	79	Asa-F Asa-10	IM-1289 IM-198
G. E. Baker Construction, Inc. 6555 Wharton Rd. Shreve, OH 44676 (330) 264-6626 Glenn E. Baker, pres.	Humphrey	Ashland	sand & gravel	42,000	78,386	Ald-GB	IM-2298
Ganges Gravel Co. 1884 London East Rd. Shelby, OH 44875 (419) 896-3660 Don Daugherty, pres.	Ganges Gravel Co.	Richland	sand & gravel	16,805	22,200	Rd-18	IM-670
GANS Ltd. 800 West Maple St. Hartville, OH 44632 (330) 877-2525 Ellis Erb, pres.	Gans Ltd. dba Brimfield Sand & Soils	Portage	sand & gravel	5,986	2,500	Pe-102	IM-1184
Gaston Bowling, Inc. P.O. Box 330 Oxford, OH 45056 (513) 892-7259 Gaston Bowling, pres.	Indian Creek Sand & Gravel	Butler	sand & gravel			Br-40	IM-493
General Motors, LLC 26427 State Route 281 E Defiance, OH 43512 (419) 782-7010 Tom Gallagher, plant mgr.	General Motors, LLC Clay Borrow Area	Defiance	clay			De-3	IM-1351
Gerken Materials, Inc. P.O. Box 607 Napoleon, OH 43545 (419) 533-7701 Brent Gerken, pres.	Gerken Materials, Inc.	Wood	limestone	272,893	293,209	Wd-1	IM-548
Gibson Sand & Gravel Co. 1475 Knorr Rd. Galion, OH 44833 (419) 468-5820 John Gibson, owner	Gibson Sand & Gravel Co.	Crawford	sand & gravel	300	300	Cd-G	IM-0693
Glen-Gery Corp. PO Box 207 Iberia, OH 43325 (419) 468-5002 Steve Matsick, pres.	Iberia Quarry	Marion	shale	54,826	54,826	Mn-7	IM-309
Gray Road Fill, Inc. 700 West Pete Rose Way Cincinnati, OH 45203 (513) 721-6000 Roy B. Schweitzer, pres.	Gray Road Fill, Inc.	Hamilton	limestone			Hmn-GR	IM-1363

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Graymont Dolime (OH) Inc. P.O. Box 158 Genoa, OH 43430 (419) 855-8336 William Dodge, pres.	Graymont Dolime (OH) Inc.	Ottawa	limestone	453,705	484,800	Oa-1 ¹	IM-292
Grimes Excavating 165 Holdren Lane P.O. Box 120 New Matamoras, OH 45767 (740) 865-3990 Lewis Grimes, owner	Grimes Sand and Gravel	Washington	sand & gravel	29,990	29,990	Wn-1008	IM-1111
Hanson Aggregates Midwest, Inc. 4100 Centennial Rd. PO Box 278 Sylvania, OH 43560-0278 (419) 882-0123 Jim Purcell, reg. pres.	Sandusky Crushed Stone	Erie	limestone	2,267,761	2,075,810	Ee-11	IM-263
	Sylvania	Lucas	limestone	787,982	624,389	Ls-3	IM-580
	Waterville	Lucas	limestone	572,853	449,756	Ls-1	IM-575
	Paulding	Paulding	limestone	148,021	189,201	Pg-7	
	Bloomville	Seneca	limestone	201,345	116,953	Sa-3	IM-349
	Flat Rock	Seneca	limestone			Sa-1	IM-347
Hanson Aggregates Midwest, Inc. 4281 Roush Rd. Hillsboro, OH 45133 (937) 364-2311 Craig Morgan, v. pres.	Plum Run Quarry	Adams	limestone	895,400	895,400	Ads-1	IM-237
	Eagle Crushed Stone	Brown	limestone	1,270,000	1,270,000	Bn-EC	IM-1195
	Dry Fork Sand & Gravel	Hamilton	sand & gravel	707,637	710,452	Hmn-50	IM-205, IM-1139
	Highland Stone	Highland	limestone	332,729	332,729	Hd-2	IM-230
	Chattin Pit	Pike	sand & gravel			Pke-23	IM-242
	Piketon Sand & Gravel	Pike	sand & gravel	222,683	230,824	Pke-24	IM-222
Hanson Aggregates Midwest, Inc. dba Wagner Quarries Co. 4203 Milan Rd. Sandusky, OH 44870 (419) 625-8141 Lehigh Hanson, pres.	Scioto Valley Resources	Scioto	sand & gravel			So-100	IM-950
	Wagner Quarry	Erie	limestone	1,402,383	1,006,000	EE-1	IM-310
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			Hmn-17	IM-295
Hartley Gravel 22941 Hartley Rd. Alliance, OH 44601 (330) 823-0003 Jacob Maendel, pres.	Hartley Gravel	Columbiana	sand & gravel	6,820	6,820	Ca-H1	IM-2033
Harvest Sand & Gravel, Inc. 2295 Bazetta Rd. Cortland, OH 44410 (330) 372-4408 Herbert R. Cottrell, pres.	Eberly	Columbiana	sand & gravel	40,028	40,028	Ca-H2	IM-2174
	Harvest Sand & Gravel, Inc.	Columbiana	sand & gravel			Ca-H	IM-2027
Heiser Sand & Gravel Corp. 4833 Applegrove St. NW North Canton, OH 44720 (330) 499-8201 Richard L. Heiser, pres.	Heiser Sand & Gravel Corp.	Stark	sand & gravel	7,523	7,523	Sk-HS1	IM-1203

¹Graymont Dolime (OH) Inc. and Stansley Mineral Resources operate from the same mine.

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Hidden Ranch Ltd. 9874 Winesburg Rd. Dundee, OH 44624 (330) 359-6126 Willis Miller, pres.	Schmid	Stark	sandstone			SK-HR	IM-2282
Hocking Valley Concrete, Inc. 35255 Hocking Dr. Logan, OH 43138 (740) 385-2165 Mark Vaughn, v. pres.	Hocking Valley Concrete, Inc.	Hocking	sand & gravel	38,847	49,000	Hg-262	IM-41
William A. Hoffman, Jr. 25043 State Route 104 Circleville, OH 43113 (740) 474-2002 William A. Hoffman, Jr., owner	Hoffman Pit	Pickaway	sand & gravel	355	355	Pky-H	IM-1039
Hollinger Excavating 2097 Hollansburg-Arcanum Rd. New Madison, OH 45346 (937) 996-5381 Tom W. Hollinger, lessee	Hollinger Gravel	Darke	sand & gravel			Dke-10	IM-326
Holmes Redimix, Inc. 5420 County Rd. 349 Millersburg, OH 44654 (330) 674-0370 Steve Schlabach, pres.	Holmes Redimix, Inc.	Holmes	sand & gravel	72,890	33,857	Hs-82	IM-707
Holmes Supply Corp. 7571 State Route 83 Holmesville, OH 44633 (330) 279-9000 Steve Schlabach, pres.	Holmes Supply Corp. Schlabach	Holmes Holmes	sand & gravel sand & gravel	256,281	256,281	Hs-J Hs-H1	IM-1043 IM-2310
Honey Creek Stone Co. P.O. Box 422 Edinburg, PA 16116 (724) 654-5537 Carmen W. Shick, pres.	Honey Creek Stone Co.	Mahoning	limestone			Mg-54	IM-93
Terry A. Hoppes 1533 Moorefield Rd. Springfield, OH 45503 (937) 399-1531 Terry A. Hoppes, pres.	Mitchell Gravel Pit	Clark	sand & gravel	11,617	11,617	Ck-TH	IM-2133
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	99	99	Pky-C	IM-1223
IRG Operating, LLC dba Cleveland Quarries 5270 Devon Dr. Vermilion, OH 44089 (440) 963-4008 Zachary Carpenter, pres.	Birmingham Quarry	Erie	sandstone	8,397	19,296	Ee-21	IM-416

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Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
IRG Amherst, LLC 3623 Brecksville Rd., Suite A Richfield, OH 44286 (440) 963-4008 Stuart Kichter, pres.	Amherst Quarries	Lorain	sandstone			Ln-3	IM-415
J. E. Nicolozakes Co. 62920 Georgetown Rd. Cambridge, OH 43725 (740) 435-3505 John E. Nicolozakes, pres.	Bank One	Tuscarawas	sand & gravel	197,000	197,000	Ts-N	IM-2032
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			Ts-2032	IM-1141
Jaclib Enterprises, Inc. 560 State Route 554 Cheshire, OH 45620 (740) 367-0602 Jason C. Leach, pres.	Cheshire Pit	Gallia	sand & gravel	854	854	Ga-JE	IM-2034
JALIP, Ltd. 16303 Twp. Rd. 124 Harpster, OH 43323 (740) 496-2008 David Herring, owner	JALIP, Ltd.	Wyandot	sand & gravel	8,315	8,315	Wt-J	IM-2119
James Bros. Sand & Gravel, Ltd. 3000 Dillon School Dr. P.O. Box 1420 Zanesville, OH 43702 (740) 454-1522 Daniel G. James, owner	James Brothers Sand & Gravel, Ltd.	Muskingum	sand & gravel			Mum-J1	IM-2251
Jarrett Sand Co. 6505 Skadden Rd. Sandusky, OH 44870 (419) 359-1750 James Jarrett, owner	Jarrett Sand Co.	Erie	sand & gravel			Ee-29	
Jaymar, Inc. 8751 North State Route 7 Cheshire, OH 45620 (740) 992-6637 Jay Hall, Jr., pres.	Plant #4	Meigs	sand & gravel	540,118	540,118	Ms-308	IM-1174
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 Route 416 Sand & Gravel	Tuscarawas	sand & gravel	21,857	21,857	Ts-2018	IM-1076
J.J.J. Properties, LLC 5585 Canal Rd. Valley View, OH 44125 (216) 447-0814 John Allegra, member	J.J.J. Properties, LLC	Lake	sand & gravel			Lke-P	IM-2258

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Joe Simak & Sons Trucking, Inc. 3052 East Center St. P.O. Box 599 North Kingsville, OH 44068 (440) 224-1992 Joseph E. Simak, pres.	Amboy Pit Baird Pit Dreslinski Pit North Ridge Pit	Ashtabula Ashtabula Ashtabula Ashtabula	sand & gravel sand & gravel sand & gravel clay sand & gravel	9,900 497 3,234	9,901 497 3,234	Asa-ST Asa-JS Asa-JS1 Asa-18	IM-1349 IM-1360 IM-2130 IM-949
Joe Yochman Excavating, Inc. 610 South Newton Falls Rd. Diamond, OH 44412 (330) 538-0014 Joe Yochman, v. pres.	Yochman	Mahoning	sand & gravel	560	560	Mg-Y	IM-2192
John L. Garber Materials, Inc. 2745 Gass Rd. - 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	102,681		Rd-G Rd-14	IM-2152 IM-436
John Wilms Trucking & Landscaping Materials 3034 Lisbon Rd. Leetonia, OH 44431 (330) 427-6472 John Wilms Sr., pres.	Leetonia	Columbiana	sand & gravel			Ca-982	IM-1108
Betty and Rebecca Johnson 3403 U.S. Route 68 S Bellefontaine, OH 43311 (937) 593-5602 Betty and Rebecca Johnson, owners	Johnson Gravel Pit	Logan	sand & gravel			Lgn-J	IM-2053
Johnson Stone Products, Inc. 4018 Cleveland Rd. E Huron, OH 44839 (440) 775-1913 Terry A. Johnson, pres.	Kipton Quarry	Lorain	sandstone	3,840	3,840	Ln-J	IM-1300
K.C. Sand & Gravel, LLC 1913 Mulligan Bluff Rd. Bryan, OH 43506 (419) 658-2186 David Karlstadt, pres.	Kartstadt	Defiance	sand & gravel	3,540	3,540	De-K	IM-2308
KCI Sand & Gravel P.O. Box 946 Logan, OH 43138 (740) 385-6019 Edward Kilbarger, pres.	KCI Sand & Gravel	Hocking	sand & gravel	49,784	57,784	Hg-HA	IM-1320
Keeney Sand & Stone, Inc. 13320 Girdled Rd. Painesville, OH 44077 (440) 254-4582 Dennis J. Keeney, pres.	Keeney Sand & Stone, Inc.	Lake	sandstone	38,806	38,806	Lke-K	IM-859
Ken Strahler Masonry, Inc. 116 Alta St. Marietta, OH 45750 (740) 373-4529 Kenneth E. Strahler, pres.	Duck Creek # 1	Washington	clay			Wn-St	IM-2224

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
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	clay limestone sandstone shale	21,026 167,088 31,275 8,880	21,026 167,088 31,275 8,880	Ts-1818	IM-9
King Quarries, Inc. 41820 Parrish Ridge Caldwell, OH 43724 (740) 732-2923 Mary King, pres.	King Quarries, Inc.	Noble	limestone	75,178	75,178	Ne-K1	IM-1292
Kinsman Materials, Ltd. P.O. Box 76 Chardon, OH 44024 (440) 286-4757 Bill Clemson, pres.	Kinsman Materials, Ltd.	Ashtabula	sand & gravel	29,514	29,514	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			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	96,605	96,605	Wt-K Wt-17	IM-943 IM-604
Kleese Development Associates, Inc. 103 W. Market St. Warren, OH 44481 (330) 392-7899 Robert S. Kleese, pres.	Kleese Development Associates, Inc.	Trumbull	sand & gravel			TI-K	IM-1101
Knox County Board of Commissioners 117 East High St. Mt. Vernon, OH 43050 (740) 397-1590 James L. Henry, county engineer	Apple Valley	Knox	shale	3,828	3,828	Kx-K	IM-870
L & I Natural Resources, Inc. 10369 Cones Rd. Loveland, OH 45140 (513) 459-7716 Jerry Walker, pres.	L & I Pit and Mill	Warren	sand & gravel	81,072	81,072	Wan-50	IM-1006
L & M Mineral Co. 2010 County Rd. 144 Sugarcreek, OH 44681 (330) 852-3696 John E. Ling, Jr., pres.	Barr Farm	Stark	shale limestone sand & gravel clay	13,148	13,148	Sk-LM	IM-2270
	Heil	Tuscarawas	shale clay	20,258	20,258	Ts-1884	IM-6
	Luikart	Tuscarawas	clay sandstone			Ts-1914	D-0701
	Spring	Tuscarawas	clay	7,115	7,115	Ts-1982	IM-621
	Spring Industries	Tuscarawas	sand & gravel	5,320	5,320	Ts-SI	IM-569

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
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			Hg-L	IM-2117
Lafarge Corp. Great Lakes Region P.O. Box 160 Paulding, OH 45879 (419) 399-4861 Bruno Lafont, pres.	Paulding Quarry	Paulding	limestone shale	538,111 29,995	538,111 29,995	Pg-1	IM-513
Lafarge North America 10325 State Route 43 Streetsboro, OH 44241 (330) 954-1750 Ken MacLean, pres.	Kelleys Island Quarry	Erie	limestone			Ee-K	IM-727
	Petersburg	Mahoning	limestone	367,316	335,554	Mg-L	IM-1353
	Marblehead	Ottawa	limestone	2,199,969	2,082,494	Oa-7	IM-440
	Shalersville North	Portage	sand & gravel	555,292	411,558	Pe-La	IM-1047
	Shalersville South	Portage	sand & gravel			Pe-68	IM-1107
	Navarre	Stark	sand & gravel			Sk-241	IM-582
Lakeside Sand & Gravel Co. 3498 Frost Rd. Mantua, OH 44255 (330) 274-2569 Larry Kotkowski, pres.	Lakeside Sand & Gravel Co.	Portage	sand & gravel	1,615	1,615	Pe-LS	IM-1293
	Lakeside Sand & Gravel Co.	Portage	sand & gravel	525,685	525,685	Pe-40	IM-190
Latham Limestone, LLC 11641 Mosteller Rd. Cincinnati, OH 45241 (513) 771-0820 James P. Jurgensen, pres.	Latham Limestone	Pike	limestone	350,955	350,955	Pke-13	IM-213
Link Trucking Co., Inc. 7305 SR 669 N McConnelsville, OH 43756 (740) 617-7544 Glen Kussmaul, pres.	Matthew	Morgan	sand & gravel	37,761	37,761	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 #1	Warren	sand & gravel	680	680	Wan-B	IM-679
	Little Miami Sand & Gravel Plant #2	Warren	sand & gravel	500	500	Wan-46	IM-842
Logan Construction, LLC 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	clay sand & gravel	650 1,056	650 1,056	Pre-9	IM-1095
LUB, Inc. 4174 East Pike Zanesville, OH 43701 (740) 452-3668 Otto Luburgh, pres.	LUB, Inc.	Muskingum	sand & gravel	12,141	12,141	Mum-LB	IM-2106

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Luburgh, Inc. 4174 East Pike Zanesville, OH 43701 (740) 452-3668 Otto Luburgh, pres.	Cameron Brothers	Muskingum	clay shale	2,885	2,885	Mum-L2	IM-2200
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.	Greene	sand & gravel	50,815	50,815	Ge-G	IM-655
	M. J. Coates Construction Co., Inc.	Greene	sand & gravel			Ge-47	IM-751
MAR-DEL Enterprises, Inc. PO Box 6156 Chillicothe, OH 45601 (740) 775-3098 Marvin E. Riley, pres.	MAR-DEL Enterprises, Inc.	Jackson	sand & gravel			Jkn-M	IM-2209
Mark Williams Blacktop Co., Inc. 695 Bramblewood Marietta, OH 45750 (740) 373-2457 Mark Williams, pres.	Williams Pit #2	Washington	sand & gravel			Wn-1007	IM-1042
Marshall Quarry, Inc. 10460 State Route 124 Hillsboro, OH 45133 (937) 402-7755 Troy A. Main, v. pres.	Marshall Quarry, Inc.	Highland	limestone	9,500	9,500	Hd-4	IM-406
Martin Marietta Aggregates 9277 Centre Point Dr., Suite 250 West Chester, OH 45069 (304) 485-7341 Dan Goethel, gen. mgr.	Apple Grove Plant	Meigs	sand & gravel	282,394	214,736	Ms-205	IM-30

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Martin Marietta Aggregates 9277 Centre Pointe Dr., Suite 250 West Chester, OH 45069 (513) 701-1141 Steve Raffensperger, v. pres.	Fairfield II Gravel	Butler	sand & gravel	1,068,090	991,532	Br-14	IM-147
	Fairfield Sand & Gravel	Butler	sand & gravel			Br-35	IM-200
	Hamilton Gravel	Butler	sand & gravel			Br-5	IM-153
	Ross Sand & Gravel	Butler	sand & gravel	130,610	145,122	Br-29	IM-149
	Fairborn Gravel	Clark	sand & gravel	283,216	314,684	Ck-13	IM-366
	Clinton Limestone	Clinton	limestone	210,398	147,248	Cln-W	IM-2160
	Blue Rock Limestone	Fayette	limestone	96,937	96,937	Fe-2	IM-169
	Cedarville	Greene	limestone	476,309	477,039	Ge-17	IM-435
	Cook Rd	Greene	sand & gravel	168,794	198,581	Ge-MM	IM-2123
	Haines Rd.	Greene	sand & gravel			Ge-32	IM-400
	Spring Valley S & G	Greene	sand & gravel			Ge-42	IM-954, IM-2123
	Xenia S & G	Greene	sand & gravel			Ge-33	IM-379
	E-town Sand & Gravel	Hamilton	sand & gravel	356,914	396,566	Hmn-71	IM-771
	Harrison Sand & Gravel	Hamilton	sand & gravel	9,831		Hmn-37	IM-170
	Miamitown	Hamilton	sand & gravel			Hmn-D	IM-1079
	Stuart Pit	Hamilton	sand & gravel			Hmn-P	IM-1333
	Lynchburg Quarry	Highland	limestone			Hd-M	IM-1170
	Troy Sand & Gravel	Miami	sand & gravel	209,751	268,334	Mi-3	IM-462, IM-658
	Phillipsburg	Montgomery	limestone	428,473	455,618	My-1	IM-374
	Rip Rap Rd.	Montgomery	sand & gravel			My-66	IM-677
	Franklin Gravel	Warren	sand & gravel	92,854	103,049	Wan-38	IM-615
	Woodville Quarry	Sandusky	limestone	1,558,171	1,447,041	Sy-1	IM-537
Martin Marietta Magnesia Specialties, Inc. 755 Lime Rd. Woodville, OH 43469 (419) 849-4200 Tim Tawney, oper. mgr.							
MAR-ZANE Materials, Inc. P.O. Box 1585 Zanesville, OH 43702-1585 (740) 453-0721 Nick Little, pres.	Enterprise Pit	Hocking	sand & gravel	188,713	195,875	Hg-HV	IM-1284
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	35,612	35,612	Fn-11	IM-234
Massillon Materials, Inc. 26 North Cochran St. P.O. Box 499 Dalton, OH 44618 (330) 837-4767 Howard J. Wenger, pres.	Massillon Materials, Inc.	Stark	sand & gravel	497,119	497,119	Sk-M	IM-1031
	MMI Warmington Plant	Stark	sand & gravel	156,869	156,869	Sk-M1	IM-1332
	MMI Sandyville Plant	Tuscarawas	sand & gravel			Ts-MM	IM-1324
Mathews Sand & Gravel 5061 Monroe Center Conneaut, OH 44030 (440) 594-1130 Edward G. Mathews, owner	Mathews Sand & Gravel	Ashtabula	sand & gravel	400	400	Asa-M	IM-1301
James L. Meade 2151 State Route 46 N Jefferson, OH 44047 (440) 593-6902 James L. Meade, pres.	Meade	Ashtabula	sand & gravel			Asa-JM	IM-2242

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Mechanicsburg Sand & Gravel, Inc. 5734 State Route 54 Mechanicsburg, OH 43044 (937) 834-2606 James G. Cushman, pres.	Mechanicsburg Sand & Gravel, Inc.	Champaign	sand & gravel	63,027	63,027	Cpn-22	IM-889
The Melvin Stone Co., LLC P.O. Box 158 Sabina, OH 45169 (937) 584-2486 Dennis J. Garrison, pres.	The Melvin Stone Co., LLC	Clinton	limestone	1,066,200	1,066,200	Cln-1	IM-241
	Fayette	Fayette	limestone			Fe-1	IM-831
	Bowersville	Greene	limestone	429,023	429,023	Ge-M	IM-2052
	Circleville	Pickaway	sand & gravel	127,026	127,026	Pky-R	IM-993
	Williamsport	Pickaway	limestone	226,460	226,460	Pky-4	IM-209
	Plano Road	Ross	limestone	240,512	240,512	Rs-MC1	IM-1298
Mesenburg Bros., Inc. 2366 Wells Rd Collins, OH 44826 (419) 668-5691 William Mesenburg, pres.	Mesenburg Bros., Inc.	Huron	sandstone	5,088	5,088	Hrn-8	IM-268
MGQ, Inc. P.O. Box 130 Old Fort, OH 44861 (419) 992-4235 Lyn O. Radabaugh, pres.	Liberty Quarry	Seneca	limestone			Sa-M	IM-2239
Miami View Mining Co., Ltd. 998-B East Ridge Dr. Lebanon, OH 45036 (513) 932-6481 James P. Jurgensen, managing mbr.	Miami View	Warren	sand & gravel	486,045	486,045	Wan-MV	IM-1329
Mid Ohio Resources 459 State Route 97 W Bellville, OH 44813 (352) 369-8600 Darryl C. Lanker, pres.	Bellville West	Richland	sand & gravel	72,349	87,097	Rd-M1	IM-2191
Miller Bros. Gravel, Inc. 555 Old Springfield Rd. Vandalia, OH 45377 (937) 836-0981 William C. Miller, pres.	Miller Bros. Gravel, Inc.	Montgomery	sand & gravel	126,893	188,640	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	129	129	Pe-39	IM-1078
Milton Materials, LLC 7131 W. Fenner Rd. Ludlow Falls, OH 45339 (937) 698-7048 Tom Wagner, pres.	Milton Materials Fenner Pit	Miami	sand & gravel	64,350	64,350	Mi-4	IM-472
Jerry Mock 2480 Leonard Rd. Baltimore, OH 43015 (740) 862-6681 Jerry Mock, owner	Jerry Mock	Licking	sand & gravel	1,067	1,067	Lg-504	IM-991

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Moore's Excavating Co. 2222 North U.S. Hwy. 68 Urbana, OH 43078 (937) 653-6288 Dorothy Moore, pres.	Moore's Excavating Co. Moore's Excavating Co.	Champaign Clark	sand & gravel sand & gravel	179		Cpn-20 Ck-29	IM-482 IM-1233
Moraine Materials Co., Inc. 1400 Commerce Center Dr. Franklin, OH 45005 (937) 855-2228 George Kling, pres.	Germantown Plant #21 Carlisle Plant #27	Montgomery Warren	sand & gravel sand & gravel	184,068		My-41 Wan-7	IM-360 IM-151
Morrow Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 (937) 584-2486 Dennis Garrison, pres.	Urbana Pike County Morrow Gravel Co.	Champaign Pike Warren	sand & gravel sand & gravel sand & gravel	144,391 130,597	144,391 130,597	Cpn-1 Pke-M Wan-M	IM-371 IM-1325 IM-728, IM-1065
Morton International, Inc. Morton Salt Division 151 Industrial St. P.O. Box 337 Rittman, OH 44270-0337 (330) 925-3015 Mark Roberts, pres.	Morton Salt Well Field	Wayne	salt	377,372	453,512	We-9129	---
Morton International, Inc. Morton Salt Division P.O. Box 428 Grand River, OH 44045-0428 (440) 639-4243 Mark Mitchell, facility mgr.	Fairport Mine	Lake	salt	1,405,589	1,476,275	Lke-6	---
Muskingum River Gravel Co. P.O. Box 1585 Zanesville, OH 43702-1585 (740) 453-0721 Nick Little, pres.	S & S Aggregate #8 S & S Aggregate #1 S & S Aggregate Plant #7 Plant #2	Hocking Muskingum Ross Washington	sand & gravel sand & gravel sand & gravel sand & gravel	113,377 158,377 112,760 456	140,511 161,043 105,949 456	Hg-301 Mum-228 Rs-M Wn-38	IM-458 IM-421 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	47,124		Sk-1017	IM-1186

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
National Lime & Stone Co. P.O. Box 120 Findlay, OH 45839-0120 (419) 422-4341 Carl Palmer, pres.	Bloomlock Quarry	Allen	limestone			An-4	IM-491
	Lima Plant	Allen	limestone	674,000	674,000	An-3	IM-484
	Buckland Plant	Auglaize	limestone	332,000	332,000	Ae-10	IM-486
	Bucyrus Plant	Crawford	limestone	1,175,000	1,175,000	Cd-1	IM-404
	Delaware Plant	Delaware	limestone	1,557,000	1,557,000	Del-5	IM-207
	Meredith Quarry	Delaware	limestone	12,000		Del-2	IM-299
	Warrensburg	Delaware	limestone			Del-3	IM-327
	Columbus Plant	Franklin	sand & gravel	264,000	264,000	Fn-52	IM-191, IM-2193
	Findlay Plant	Hancock	limestone	947,000	947,000	Hk-7	IM-1002
	Ridge Quarry	Hancock	limestone			Hk-A	IM-1299
	County Line Quarry	Hardin	limestone			Hdn-N	IM-2072
	Hamilton Quarry	Marion	limestone			Mn-2	IM-423
	Marion Plant	Marion	limestone	453,000	453,000	Mn-3	IM-168
	Rimer Plant	Putnam	limestone	160,000	160,000	Pm-N	IM-0479
	Delphos Quarry	Van Wert	limestone	81,000	81,000	Vt-1	IM-500
	Carey Plant	Wyandot	limestone	2,220,000	2,220,000	Wt-1	IM-405
	Sammet	Wyandot	sand & gravel	163,000	163,000	Wt-N	IM-2132
	Neer's Sand & Gravel	Logan	sand & gravel	111,029	111,029	Lgn-6	IM-459
	Neer's Sand & Gravel	Logan	sand & gravel	111,029	111,029	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	40,640	40,640	Asa-N1	IM-2102
New Carlisle Sand & Gravel Co. 6090 South Scarff Rd. New Carlisle, OH 45344 (937) 845-8434 James R. Upton, owner	New Carlisle Sand & Gravel Co.	Miami	sand & gravel			Mi-501	---
Newbury Sand & Gravel, Inc. 14757 Ravenna Rd. Burton, OH 44021 (440) 708-1958 Bruce Thomas, pres.	Newbury Sand & Gravel, Inc.	Geauga	sand & gravel			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	116,961	116,961	Ts-2001	IM-1004
North Shore Stone Quarries, Inc. 72 Fernhill Ave. Columbus, OH 43228 (614) 878-0620 Clifford Hammond, pres.	North Shore Stone Quarries, Inc.	Seneca	limestone	1,599	1,599	Sa-8	IM-313
Nuway Services 3441 Sportsman Club Rd. Johnstown, OH 43031 (740) 587-2451 Wilda McInturff, pres.	Hopewell	Licking	clay	7,056	7,056	Lg-NU	IM-2046

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Oglebay Norton Industrial Sands, Inc. 2446 Glassrock Rd. Glenford, OH 43739 (740) 342-8710 Thomas Buck, pres.	Millwood Plant Glass Rock Plant	Knox Perry	sandstone sandstone	40,950 100,203	40,950 100,203	Kx-1 Py-344	IM-269 IM-1014
Ohio Asphaltic Limestone Corp. 8591 Mad River Rd. Hillsboro, OH 45133 (937) 364-2191 Diana M. Jones, pres.	Ohio Asphaltic Limestone Corp. Ohio Asphaltic Limestone Corp. Ohio Asphaltic Limestone Corp.	Highland Highland Highland	limestone limestone limestone	 252,271	 252,271	Hd-O1 Hd-O Hd-3	IM-2068 IM-2056 IM-253
Olen Corp. 4755 South High St. Columbus, OH 43207-4028 (614) 491-1515 Kenneth W. Holland, pres.	Columbus Plant #3 Fredericktown Plant #2 Hathaway St. Louisville Plant #5 Lucky Sand & Gravel Co. Hickerson Wooster Plant #8	Franklin Knox Knox Licking Portage Richland Wayne	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel clay sand & gravel shale	1,075,000 223,000 223,000 248,000 248,000 248,000 367,000 500 500	1,075,000 223,000 223,000 248,000 248,000 248,000 367,000 500 500	Fn-58 Kx-O Kx-DH Lg-31 Pe-L Rd-O We-11-W	IM-1023 IM-2159 IM-2078 IM-246 IM-154 IM-2257 IM-547
Orrville Trucking P.O. Box 220 Orrville, OH 44667 (330) 682-4010 David A. Renner, pres.	Upper Sandusky Orrville Trucking	Wyandot Ashland	limestone sand & gravel	397,000	397,000	Wt-3 Ald-G	IM-298 IM-1121
Osborne Materials Co. P.O. Box 249 Grand River, OH 44045-0248 (440) 357-5562 Gary D. Bradler, pres.	Osborne Materials Co.	Lake	sand & gravel			Lke-dredge	
Oscar Brugmann Sand & Gravel, Inc. 3828 Dudley Rd. Mantua, OH 44255 (330) 274-8224 Alan R. Brugmann, pres.	Oscar Brugmann Sand & Gravel, Inc. Oscar Brugmann Sand & Gravel, Inc. Oscar Brugmann Sand & Gravel, Inc.	Portage Portage Portage	sand & gravel sand & gravel sandstone sand & gravel	20,619 439,206 439,206	20,619 439,206 439,206	Pe-OB1 Pe-OB Pe-9	IM-2300 IM-1241 IM-119
Oster Sand & Gravel, Inc. 5947 Whipple Ave. NW North Canton, OH 44720-7692 (330) 494-5472 Marlene K. Oster, pres.	Malvern Plant Massillon Plant Oster Sand & Gravel, Inc. - Bolivar	Carroll Stark Tuscarawas	sand & gravel sand & gravel sand & gravel	432,954 432,954 104,147	432,954 432,954 104,147	Cl-O Sk-165 Ts-2036	IM-2082 IM-192 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	2,991	2,991	Ga-O	IM-1028
Oxford Mining Co., Inc. P.O. Box 427 Coshocton, OH 43812 (740) 622-6302 Charles C. Ungurean, pres.	Dailey Mine Standingstone Mine Stone Creek	Columbiana Harrison Tuscarawas	clay limestone clay	494,786	494,786	Ca-CE2 Hn-O2 Ts-H7	D-2097 D-2277 D-2109

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
The Parry Company, Inc. 33630 Old U.S. Route 35 Chillicothe, OH 45601 (740) 884-4893 David Meredith, pres.	Jackson Grandview Builders	Pike	sandstone			Pke-P	IM-2337
Patrick Excavating, Inc. 5839 State Route 5 P.O. Box 387 Ravenna, OH 44266 (330) 792-2271 Tim Patrick, pres.	Patrick	Portage	clay sand & gravel	60 634	60 634	Pe-P	IM-1322
Paul D. Beery Trucking Co. 4770 Cincinnati-Zanesville Rd. NE Lancaster, OH 43130 (740) 653-5061 Paul D. Beery, pres.	Paul D. Beery Trucking Co.	Fairfield	sand & gravel	1,094	1,328	Fd-14	IM-933
Phillips Sand & Gravel P.O. Box 187 Alpha, OH 45301 (937) 431-7986 Richard Phillips II, pres.	Phillips Sand & Gravel	Greene	sand & gravel	247,785	247,785	Ge-36	IM-305
Phoenix Ashphalt Company, Inc. P.O. Box 405 Magnolia, OH 44643 (330) 339-4935 James R. Demuth, pres.	Smith	Carroll	sand & gravel	41,704	41,704	Cl-P	IM-2322
Piqua Materials, Inc. Piqua Minerals Division 1750 West Statler Rd. Piqua, OH 45356 (937) 773-4824 Dennis Garrison, pres.	Piqua Minerals Division	Miami	limestone	426,356	426,356	Mi-1	IM-382
Portage Aggregate & Supply, LLC 10155 Royalton Rd. North Royalton, OH 44133 (330) 297-6800 Anthony J. Farinacci, pres.	Portage Aggregate & Supply, LLC	Portage	sand & gravel	61,834	61,834	Pe-M	IM-1312
Power Development Corp. P.O. Box 936 Malvern, OH 44644 (330) 863-0603 Paul W. Robertson, pres.	Power Development/Robertson	Carroll	sand & gravel			Cl-PD	IM-1352
Prairie West, Ltd. 7260 Twp. Rd. 569 Fredericksburg, OH 44627 (330) 695-2478 Ivan R. Hochstetler, pres.	Prairie West, Ltd.	Holmes	clay			Hs-P	IM-2293
Precision Aggregates I, LLC 4843 County Rd. 43 Upper Sandusky, OH 43351 (419) 352-4681 Randolph Schmeltz, pres.	Precision Aggregate I, LLC	Wyandot	sand & gravel	45,220	45,220	Wt-4	IM-520

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Precision Aggregates II, LLC 12205 East Gypsy Ln. Bowling Green, OH 43402 (419) 352-4681 Randolph G. Schmeltz, pres.	Precision Aggregates II, LLC	Wood	limestone sand & gravel	158,730	158,730	Wd-14	IM-1157
Precision Aggregates III, LLC 100 South Stone St. Fremont, OH 43420 (419) 333-2366 Randolph Schmeltz, pres.	Precision Aggregates III, LLC	Sandusky	limestone sand & gravel	63,940 910	63,940 910	Sy-5-1	IM-0259
Putnam Stone Co. 7053 Road M Ottawa, OH 45875-9754 (419) 523-6004 Tony Shroyer, pres.	Putnam Stone Co.	Putnam	limestone	204,366	182,157	Pm-2	IM-570
Quality Ready Mix, Inc. 12201 Fryburg Rd. Wapakoneta, OH 45895 (419) 738-2817 John Hirschfield, pres.	Quality Pit	Auglaize	sand & gravel	12,086	12,086	Ae-16	IM-595
Quality Stone Co. 8751 North State Route 7 Cheshire, OH 45620 (740) 992-6637 Jay Hall, Jr., pres.	Quality Stone Co. Route 32	Vinton Vinton	limestone limestone	45,040	45,040	Vn-190 Vn-193	D-0761
R. L., Ltd. 5850 Dryfork Rd. Cleves, OH 45002 (513) 367-5700 Rick Ashcraft, pres.	R. L., Ltd.	Hamilton	sand & gravel	800	800	Hmn-67	IM-529
R. H. Penick Co., Ltd. 1504 Blue Jay Rd. Heath, OH 43056-1767 (740) 323-3040 Suzanne R. Neumeyer, owner	R. H. Penick Co.	Licking	salt	222	222	Lg-45	
R. J. Martin Service & Excavating 1875 Roxanna-New Burlington Rd. Waynesville, OH 45068 (937) 862-4182 Roger J. Martin, pres.	Horseshoe Bend Sand & Gravel, Inc.	Greene	sand & gravel	382	382	Ge-40	IM-923
R. W. Sidley, Inc. 615 W. Main St. Conneaut, OH 44030 (440) 352-9343 Robert Buescher, pres.	Sidley-Kingsville Plant	Ashtabula	sand & gravel	32,400	32,000	Asa-15	IM-783
R. W. Sidley, Inc. 7123 Madison Rd. Thompson, OH 44086 (440) 298-3232 Robert Buescher, pres.	Thompson Pit Sidley-Painesville Plant	Geauga Lake	sandstone sand & gravel	141,100	170,000	Gea-1 Lke-7	IM-163 IM-162

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
R. A. Cruise Sand & Gravel, Inc. 2568 Lake Rockwell Rd. Ravenna, OH 44266 (330) 296-4087 Larry A. Cruise, pres.	R. A. Cruise Sand & Gravel, Inc.	Portage	sand & gravel	10,433	10,433	Pe-45	IM-139
RAK, Inc. dba Rainbow Sand & Gravel, Inc. P.O. Box 240 Bristol, OH 44402 (330) 389-3451 Rex King, pres.	Rainbow Sand & Gravel, Inc.	Portage	sand & gravel	10,393	10,393	Pe-64	IM-1017
Ralph C. Wagner & Sons 7317 Brinker St. Navarre, OH 44662 (330) 495-7414 Michael Wagner, owner	Wagner & Sons	Stark	sand & gravel			Sk-W	IM-867
Razor Lake S. & G., LLC 59894 County Rd. 9 Newcomerstown, OH 43832 (740) 294-1370 Terry L. Jurin, owner	Razor Lakes S. & G., LLC	Coshocton	sand & gravel	45,799	45,799	Cn-R	IM-2175
Regeneration Materials P.O. Box 146 Dundee, OH 44624 (330) 852-2012 Matthew Maendel, pres.	Dundee Mine	Tuscarawas	sandstone	4,868	4,868	Ts-1660	IM-68
Ridge Township Quarry 16905 Middlepoint Rd. Van Wert, OH 45891 (419) 238-2533 Jenny Lautenschleger, foreman	Ridge Township Quarry	Van Wert	limestone	132,184	132,184	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	262	262	St-24	IM-239
Rockwell Sand & Gravel, Inc. 1022 State Route 43 Suffield, OH 44260 (330) 628-3231 Alvin Rufener, pres.	Suffield Aggregate, LLC	Portage	sand & gravel peat	26,678 2,069	26,678 2,069	Pe-R	IM-2037
Romig Excavating P.O. Box 260 Sherrodsville, OH 44675 (740) 269-1225 James D. Romig, owner	Romig	Carroll	sandstone	475	475	Ca-R	IM-2296
Roy M. Roush 11278 Darby Creek Rd. Orient, OH 43146 (614) 877-4792 Roy M. Roush, owner	R Farm S & G	Pickaway	sand & gravel	1,055	1,055	Pky-RR	IM-2040

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Royalty Enterprises, Inc. P.O. Box 8680 Newark, OH 43058 (740) 323-3333 Clayton King, pres.	King #1	Licking	salt	304	304	Lg-4484	
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
Rupp Construction, Inc. 18228 Fulton Rd. Marshallville, OH 44645 (330) 855-2781 Gary D. Radabaugh, pres.	Rupp Construction, Inc.	Wayne	sand & gravel	116,655	116,655	We-7	IM-471
S & R Aggregate 17280 State Route 60 Lowell, OH 45744 (740) 984-4417 Mike Story, pres.	Story	Washington	sand & gravel	312	312	Wn-SR	IM-2314
S & S Aggregate, Inc. P.O. Box 1585 Zanesville, OH 43702-1585 (740) 453-0721 Nick Little, v. pres.	Lockbourne Rd.	Franklin	sand & gravel			Fn-24	IM-266
	S & S Aggregate #16	Portage	sand & gravel	261,497	267,527	Pe-15	IM-104
	Twin Lakes - S & S Aggregate #10	Portage	sand & gravel			Pe-67	IM-202
	S & S Aggregate #14	Richland	sand & gravel	99,799	114,797	Rd-5	IM-470
SAMCO, Inc. 10217 State Route 534 N Middlefield, OH 44062 (440) 272-5158 Timothy P. Gleason, pres.	Twin Lakes - S & S Aggregate #9	Summit	sand & gravel	85,737	46,713	St-44	IM-178
	Springbrook	Trumbull	clay	556	556	Tl-12	IM-131
			sandstone	105	105		
Sam's Excavating Unlimited, Inc. 4324 St. Paul Rd. Ashville, OH 43103 (740) 983-6589 Samuel Hall, pres.			sand & gravel	41,768	41,768		
	Scioto Aggregates	Pickaway	sand & gravel	8,109	8,109	Pky-S	IM-2328
Sandkuhl Clay Works, Inc. 05536 Kossuth-Amanda Rd. Spencerville, OH 45887 (419) 657-2905 Ann L. Engh, pres.	Sandkuhl Clay Works, Inc.	Auglaize	clay	2,835	2,835	Ae-7	
Sandman Trucking, Inc. 9025 Old Airport Hwy. Holland, OH 43528 (419) 865-1666 Robert H. Parker, Jr., pres.	Sandman Trucking, Inc.	Fulton	sand & gravel	44,621	44,621	Ftn-SA1	IM-2136
Scassa Asphalt, Inc. 4167 Beaumont Ave. NW Massillon, OH 44647 (330) 830-2039 Nicholas Scassa, pres.	Scassa Asphalt, Inc.	Stark	sand & gravel	2,500	5,000	Sk-S	IM-2326

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Guy Schieve 52943 State Route 113 Wakeman, OH 44889 (440) 965-8792 Guy Schieve, owner	Schieve Pit	Lorain	sand & gravel	3,640	3,640	Ln-12	IM-731
Roy B. Schweitzer dba The Gravel Co. 700 West 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
Mark E. Scott P.O. Box 6112 Chillicothe, OH 45601 (740) 772-4990 Mark E. Scott, owner	Scott Pit	Ross	sand & gravel	2,750	2,750	Rs-P	IM-122
SDI Steel Buildings, LLC 713 Keystone St. Crooksville, OH 43731 (740) 982-4280 Mark B. Swingle, pres.	SDI Steel Buildings, LLC	Perry	clay			Py-SDI	IM-2182
Seville Sand & Gravel, Inc. 8215 Seville Rd. Lodi, OH 44254 (330) 948-1812 Richard L. Rothel, mgr.	Seville Sand & Gravel, Inc.	Medina	sand & gravel			Ma-22	IM-425, IM-442, IM-650, IM-65
Shamrock Materials, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 (513) 771-0820 James P. Jurgensen, pres.	Shamrock Walls Material	Butler Darke	sand & gravel limestone	166,847 282,152	166,847 282,172	Br-52 Dke-1	IM-814 IM-362
Sharon Stone Co. P.O. Box 100 Dexter City, OH 45727 (740) 989-2290 David J. Skinner, pres.	Sharon Stone Co. Belpre Sand & Gravel	Noble Washington	limestone sand & gravel	111,214 315,294	111,214 315,294	Ne-S Wn-SS	IM-913 IM-2006

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Shelly Materials, Inc. 80 Park Dr. Thornville, OH 43076 (740) 246-6315 Douglas Rauh, pres	Coshocton Apache #1	Coshocton	sand & gravel			Cn-783	IM-717
	Coshocton Apache #2	Coshocton	sand & gravel			Cn-718	IM-227
	Shelly Materials, Inc. Plant #1305	Coshocton	sand & gravel	152,694	106,939	Cn-694	IM-293
	Shelly Materials, Inc. Plant #1314	Fairfield	sand & gravel	178,234	192,067	Fd-13	IM-848, IM-1331
	Columbus Limestone #331	Franklin	limestone	2,476,084	2,038,276	Fn-53	IM-185
	Shelly Materials Plant #1312	Licking	sand & gravel			Lg-W	IM-1213
	Van Wey Sand & Gravel Plant #1312	Licking	sand & gravel	291,240	370,219	Lg-10	IM-217
	Portland Plant	Meigs	sand & gravel	238,353	267,851	Ms-S	IM-1326
	Shelly Materials, Inc.- Racine	Meigs	sand & gravel	55,281		Ms-298	IM-32
	East Fultonham	Muskingum	limestone	678,999	818,051	Mum-106	IM-297
	Shelly Materials, Inc.- Dresden	Muskingum	sand & gravel	5,391		Mum-799	IM-317, IM-264
	Jefferson Materials Plant #1302	Portage	sand & gravel	233,623	295,053	Pe-63	IM-82
	Chillicothe	Ross	sand & gravel	5,750	5,750	Rs-G	IM-2099
	Shelly Material, Inc. Plant #1321	Ross	sand & gravel	156,164	188,233	Rs-27	IM-1098
	Haverhill	Scioto	sand & gravel			So-79	IM-221
	Allied Corp.	Stark	sand & gravel	392,000	392,000	Sk-CA	IM-1234
	Allied Corp., Inc.	Stark	sand & gravel			Sk-173	IM-879
	Allied Corp., Inc. #1301	Stark	sand & gravel	400,615	492,095	Sk-N	IM-156
	Willow Island Plant #1341	Washington	sand & gravel	472,907	490,646	Wn-C	IM-1315
Shelly Materials, Inc. P.O. Box 3100 Findlay, OH 45840 (419) 422-8854 Douglas Rauh, pres.	Mechanicsburg	Champaign	sand & gravel			Cpn-21	IM-616
	Forest Quarry	Hardin	limestone	180,000		Hdn-S	IM-1034
	Hardin Quarry	Hardin	limestone	5,000		Hdn-2	IM-443
	Belle Center	Logan	limestone	200,000	200,000	Lgn-2	IM-494
	East Liberty Quarry	Logan	limestone			Lgn-1	IM-574
	Tri-County Limestone Co.	Marion	limestone			Mn-1	IM-250
	Rockford Quarry	Mercer	limestone			Mr-2	IM-430
	York Center Quarry	Union	limestone	190,000	250,000	Un-1	IM-208
Shelly Materials, Inc. 1771 Harmon Ave. Columbus, OH 43223 (740) 246-1142 Douglas Rauh, pres.	Lockbourne Pit	Franklin	sand & gravel	256,071	169,528	Fn-23	IM-183
	Marble Cliff Plant #0332	Franklin	limestone	94,040		Fn-2	IM-261
	Ostrander Quarry	Union	limestone	934,172	816,723	Un-2	IM-236
Sidco Development, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 (740) 849-2422 Jeffrey R. Sidwell, pres.	Columbia Cement	Muskingum	limestone			Mum-SD	IM-1313
	Midvale Sand & Gravel	Tuscarawas	sand & gravel	154,523	154,523	Ts-S2	IM-1356

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 (740) 849-2422 Jeffrey R. Sidwell, pres.	Bellaire Stone	Belmont	sandstone	2,363	2,363	Bt-1190	IM-1089, IM-2256
	Uniontown Stone	Belmont	limestone clay	332,186	332,186	Bt-N	IM-1283
	Dupler/Ford	Muskingum	limestone	293,713	267,999	Mum-SB	IM-1212, IM-1269
	Moore	Muskingum	limestone			Mum-S	IM-2214
	Sidwell Materials, Inc.	Muskingum	limestone			Mum-SW	IM-2092
	White Cottage	Muskingum	limestone	54,024	78,850	Mum-104	IM-277
Small's Sand & Gravel, Inc. P.O. Box 617 Gambier, OH 43022 (740) 427-3677 Michael W. Small, pres.	Small's Sand & Gravel, Inc.	Knox	sand & gravel	22,650	22,650	Kx-S	IM-2000
	Small's Sand & Gravel, Inc.	Knox	sand & gravel	259	259	Kx-17	IM-968
	Small's Sand & Gravel, Inc.	Knox	sand & gravel	182,662	182,662	Kx-15	IM-967
Sober Sand & Gravel Co. 2898 Tallmadge Rd. Ravenna, OH 44266 (330) 867-0666 Joseph F. Bertolini, pres	Sober Sand & Gravel Co.	Portage	sand & gravel	138,806	138,806	Pe-18	IM-193
Soehnlén Bros. Sand & Gravel, Inc. 10449 Soehnlén Rd. NW Beach City, OH 44608 (330) 756-2244 Francis L. Soehnlén, pres.	Soehnlén Bros. Sand & Gravel, Inc.	Tuscarawas	sand & gravel	216,669	216,669	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	sandstone	7,318	7,318	Ca-S	IM-1258
			sand & gravel	60,612	60,612		
	Solomon's Mines, Inc.	Mahoning	sand & gravel	308	308	Mg-632	IM-808
Solon Excavators Sand & Gravel, Inc. 7826 Ferguson Rd. Streetsboro, OH 44241 (330) 626-2560 Howard Sargent, pres.	Valley Brook	Portage	sand & gravel			Pe-V	IM-2061
Soltis Sand & Gravel 19102 Nelson Ledges Rd. P.O. Box 452 Garrettsville, OH 44231 (440) 548-5813 James Soltis, owner	Soltis Sand & Gravel	Geauga	clay sand & gravel	18 322	18 322	Gea-9	IM-132
South Central Sand & Gravel 340 Bailey Chapel Rd. Piketon, OH 45661 (740) 289-3307 James A. Nier, owner	South Central Sand & Gravel	Pike	sand & gravel	23,750	23,750	Pke-30	IM-786
Southern Ohio Aggregates, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 (513) 771-0820 James P. Jurgensen, pres.	New Miami Plant	Butler	sand & gravel			Br-S	IM-1053
	Cleves Pit	Hamilton	sand & gravel			Hmn-S	IM-746
	Kilby Road	Hamilton	sand & gravel			Hmn-SO	IM-720
	Gratis Plant	Preble	sand & gravel			Pre-7	IM-306

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Southern Ohio Sand, LLC P.O. Box 748 Willoughby, OH 44094 (440) 487-9771 Roy Vaughn, pres.	Southern Ohio Sand, LLC	Pike	sandstone	17,200	17,200	Pke-S	IM-1348
City of Springfield 201 Eagle City Rd. Springfield, OH 45502 (937) 525-5880 Allen Jones, water plant supt.	City of Springfield	Clark	sand & gravel			Ck-7	IM-449
Spring Industries, Inc. 1198 Polo Club Rd. Wellington, FL 33414 (561) 229-8990 Glenn Straub, pres.	Bolivar Pit	Stark	sand & gravel			Sk-SI	IM-588
S.R.I., Inc. 1550 Soldiers Home-West Carrollton Dayton, OH 45418 (937) 268-8991 Steve Rauch, pres.	S.R.I., Inc.	Montgomery	sand & gravel			My-R	IM-539
St. Joe Sand & Gravel, LLC 13307 County Rd. J35 Montpelier, OH 43543 (419) 392-6749 David A. Nixon, pres.	Watson	Williams	sand & gravel	92,978	105,829	Ws-S	IM-2243
Stansley Mineral Resources 5648 Main St. Sylvania, OH 43560 (419) 243-2813 Jeffrey Stansley, pres.	Stansley Mineral Resources Inc., Plant 301	Ottawa	limestone	350,821	290,000	Oa-1A ¹	IM-292
State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 (330) 426-9611 Jay Muse, pres.	State Line Resources, Inc.	Columbiana	clay	41,061	41,061	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			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.	Tuscarawas	sand & gravel			Ts-ST	IM-2125
	Stocker Sand & Gravel Co.	Tuscarawas	sand & gravel			Ts-S3	IM-2232
	Stocker Sand & Gravel Co. - Gnadenhutten	Tuscarawas	sand & gravel	236,764	236,764	Ts-69	IM-51
	Stocker Sand & Gravel Co.- Island	Tuscarawas	sand & gravel	594,936	594,936	Ts-125	IM-50

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Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Stoneco, Inc. P.O. Box 3100 Findlay, OH 45840 (740) 246-6315 Doug Rauh, pres.	Maumee Quarry	Lucas	limestone	540,000	550,000	Ls-2	IM-503
	Celina Quarry	Mercer	limestone	486,000	460,000	Mr-1	IM-592
	Rocky Ridge Quarry	Ottawa	limestone	3,900		Oa-14	IM-320
	White Rock Quarry	Ottawa	limestone	365,000	420,000	Oa-6	IM-296
	Auglaize Quarry	Paulding	limestone	590,000	550,000	Pg-2	IM-481
	Scott Quarry	Van Wert	limestone	180,000	83,000	Vt-3	IM-495
	Lime City Quarry	Wood	limestone	185,000	13,000	Wd-6	IM-480
	Portage Quarry	Wood	limestone	122,000	110,000	Wd-11	IM-475
	Carey Quarry	Wyandot	limestone	1,150,000	1,100,000	Wt-8	IM-273
Sugarcreek Clay & Limestone P.O. Box 402 Sugarcreek, OH 44681 (330) 852-4440 David K. Longfellow, pres.	Sugarcreek Clay & Limestone	Coshocton	sand & gravel			Cn-624	IM-243
Summitville Tiles, Inc. P.O. Box 173 Summitville, OH 43962 (330) 223-1511 David Johnson, pres.	Summitrest Inc.	Columbiana	shale	11,545	11,545	Ca-SU	IM-2186
	Summitville Tiles, Inc.	Columbiana	clay clay			Ca-205	IM-74
Sunrise Sand & Gravel 1716 Mill Creek Rd. Jefferson, OH 44047 (440) 576-9693 Kenneth, Robert & Richard McElroy, partners	Sunrise Sand & Gravel	Ashtabula	sand & gravel			Asa-21	IM-1239
Sunshine Sand Co. 12400 Broadway Ave. Cleveland, OH 44125 (216) 587-2700 Dorothy M. Strohm, pres.	Sunshine Sand Co.	Portage	sand & gravel			Pe-SSC	IM-318
Joseph N. Sypniewski 3780 Mechanicsville Rd. Rock Creek, OH 44084 (440) 563-5644 Joseph N. Sypniewski, pres.	Sypniewski	Ashtabula	clay	627	627	Asa-SY	IM-2222
			sand & gravel	339	339		
T & K Kuhnle Co. P.O. Box 375 Newbury, OH 44065 (440) 564-7168 Bob Russell, owner	Munn Materials	Geauga	sand & gravel	4,838	4,838	Gea-TK	IM-902
Tackett Builders 906 Charleston Pike Chillicothe, OH 45601-9312 (740) 772-5431 Carmel G. Tackett, owner	Tackett's Pit	Ross	sand & gravel			Rs-T	IM-1189
The Terry Byrne Mining Co. 4775 Mill Run Rd. Lexington, OH 44904 (419) 564-9809 Terrance K. Byrne, owner	The Terry Byrne Mining Co.	Richland	sand & gravel	1,000	1,000	Rd-TB	IM-1343
Thiel Construction Co. P.O. Box 225 Blakeslee, OH 43505 (419) 272-2712 Lee R. Thiel, pres.	Thiel Construction Co.	Williams	sand & gravel	1,623	1,623	Ws-21	IM-1225

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Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Thomas Sand & Gravel 5801 Enterprise Rd. West Alexandria, OH 45381 (937) 787-4677 Howard Thomas, owner	Thomas Sand & Gravel	Preble	sand & gravel	50	50	Pre-T	IM-2036
Thompson Bros. Mining Co. 3379 East Garfield Rd. P.O. Box 57 New Springfield, OH 44443 (216) 549-3979 J. E. Thompson, owner	Rapp Mine	Mahoning	clay	755	755	Mg-588	D-0374, D-1168
Thompson Mining Co. 12321 Ideal Rd. Byesville, OH 43723 (740) 685-6726 George V. Thompson, pres.	Pleasant Valley Stone	Muskingum	limestone clay shale	85,529 300	85,529 300	Mum-907	IM-1200
Three C's Gravel 936 South Main St. Bellefontaine, OH 43311 (937) 599-2078 Todd Watson, pres.	Three C's Gravel	Champaign	sand & gravel			Cpn-T	IM-2234
Tiger Sand & Gravel, LLC 4141 Southway St., SW Canton, OH 44706 (330) 477-9653 Pete Bitzel, Jr., partner	Tiger Sand & Gravel, LLC	Stark	sand & gravel	59,240	59,240	Sk-T	IM-2279
Tipp Stone Co., Inc. P.O. Box 367 Troy, OH 45373 (937) 890-4051 Michael Eidemiller, pres.	Tipp Stone Co., Inc. Tipp Stone Co., Inc.	Miami Montgomery	sand & gravel sand & gravel	600 19,092	600 19,092	Mi-12 My-61	IM-467 IM-468
Top Dog Service Company 660 Lunken Park Dr. Cincinnati, OH 45226 (513) 353-2555 Michael P. O'Rourke, pres.	Whitewater Reclamation Company	Hamilton	sand & gravel	1,000	1,000	Hmn-G	IM-1270
Total Waste Logistics, LLC 7131 Akron-Canfield Rd. Canfield, OH 44405 (330) 702-0702 Guy F. Fragle, dir.	Penn Ohio Mine	Columbiana	clay			Ca-TW	IM-2336
Triple B of Lakeville, Ltd. 13739 State Route 226 Lakeville, OH 44638 (330) 496-2646 Bruce Schemrich, pres.	Lakeville Sand & Gravel, Ltd.	Holmes	sand & gravel			Hs-C	IM-1303
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	5,814	5,452	Wn-510	IM-25

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Name, address, telephone number, and president/owner/manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Tuffco Sand & Gravel, Inc. P.O. Box 399 Marysville, OH 43040 (614) 873-3977 Charles Lewis, pres.	Tuffco Sand & Gravel, Inc.	Madison	sand & gravel	100,504	100,504	Mdn-11	IM-1063
Twinsburg Development Corp. P.O. Box 248 Grand River, OH 44045 (440) 357-5562 Gary D. Bradler, pres.	Twinsburg Development Corp.	Portage	sand & gravel	107,097	107,097	Pe-84	IM-868
U.S. Aggregates, Inc. 5400 West 86th St. P.O. Box 68123 Indianapolis, IN 46268 (317) 872-6010 James Fehsenfeld, pres.	Richmond Plant U.S. Aggregates/Richmond Plant	Preble Preble	sand & gravel sand & gravel	136,128	174,563	Pre-U Pre-AAC	IM-2307 IM-779
United Aggregates, Inc. P.O. Box 750 Mt. Vernon, OH 43050 (740) 397-0000 Jeff Ellis, pres.	United Aggregates, Inc. United Aggregates, Inc.	Knox Knox	sand & gravel sand & gravel	42,487 126,450	45,500 135,405	Kx-5 Kx-3	IM-884, IM-1307 IM-300
Valley Mining, Inc. P.O. Box 152 Uhrichsville, OH 44683 (740) 922-3942 William C. Aubiel, pres.	Sickafoose Pit	Stark	clay limestone			Sk-208	D-1015
Valley Clay Mining Co. 451 Gordon St. Roseville, OH 43777 (740) 697-0620 Stephen R. McCann, pres.	Spring Pit	Muskingum	clay	8,261	8,261	Mum-904	IM-1127
Valley Materials Co. 4947 U.S. Route 23 S P.O. Box 400 Piketon, OH 45661 (740) 289-4400 Ralph McFann, pres.	Valley Materials #2	Pike	sand & gravel	9,200	9,200	Pke-V	IM-1330
Walhonding Sand & Gravel 27679 State Route 206 Walhonding, OH 43843 (740) 824-5251 Ezra Helmick, v. pres.	Walhonding Valley Sand & Gravel	Coshocton	clay sand & gravel shale	75,499 1,887	75,499 1,887	Cn-WL	IM-2127
Waller Bros. Stone Co. P.O. Box 157 McDermott, OH 45652 (740) 259-2356 Frank L. Waller, pres.	Crabtree Quarry Inskeep Quarry Miller Quarry New Inskeep Quarry	Scioto Scioto Scioto Scioto	sandstone sandstone sandstone sandstone	3,610	3,610	So-76 So-48 So-82 So-W	IM-141 IM-140 IM-158 IM-2111
Ward Materials, Inc. 385 Oak St. Leipsic, OH 45856 (419) 943-2450 Arnold W. Rosebrock, pres.	Ward Materials, Inc.	Allen	sand & gravel	10,195	7,900	An-W	IM-2069

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
Waste Management/ Chambers Development of Ohio, Inc. 7916 Chapel St. SE Waynesburg, OH 44688 (330) 866-3265 Jerry R. Ross, sr. dist. mgr.	Chambers Development of Ohio, Inc.	Harrison	clay			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) 286-5633 Denton H. Bowman, pres.	Waterloo Coal Stone Plant	Jackson	clay limestone	9,929 478,298	9,929 478,298	Jkn-367	D-594,968,183
Watson Gravel, Inc. 2728 Hamilton-Cleves Rd. P.O. Box 277 Ross, OH 45061 (513) 863-0070 Ronald E. Watson, pres.	Mecco, Inc.	Butler	sand & gravel	291,446	291,446	Br-15	IM-316
	Ongais Plant #1	Butler	sand & gravel			Br-O	IM-2143
	River Pit	Butler	sand & gravel	23,498	23,498	Br-57	
	Watson Pit	Butler	sand & gravel	421,118	421,118	Br-47	IM-111
	Dry Fork	Hamilton	sand & gravel	45,680	45,680	Hmn-68	IM-747
	Harrison #2	Hamilton	sand & gravel	515,912	515,912	Hmn-ARH	IM-1273
	Harrison Pit	Hamilton	sand & gravel			Hmn-60	IM-761
	Minges-Getz	Hamilton	sand & gravel	237,448	237,448	Hmn-64	IM-137
Weber Sand & Gravel, Inc. 14586 U.S. Route 127 EW Bryan, OH 43506 (419) 636-4238 Thomas G. Weber, pres.	Weber Sand & Gravel, Inc.	Defiance	sand & gravel	129,685	129,685	Ws-11 De	IM-0661
Joann O. Weddle 2419 U.S. Route 68 N Yellow Springs, OH 45387 (937) 374-1234 Joann Weddle, owner	Yellow Springs Plant	Greene	sand & gravel			Ge-W	IM-645
Weidle Sand & Gravel, Inc. P.O. Box 247 Germantown, OH 45327 (937) 855-2227 D. Scott Weidle, v. pres.	Weidle	Montgomery	sand & gravel	94,939	94,939	My-W1	IM-2203
Welch Sand & Gravel, Inc. 10217 Columbia St. Harrison, OH 45030-9751 (513) 353-3220 Charles H. Welch, pres.	Schlichter Pit	Butler	sand & gravel	98,011	98,011	Br-38	IM-218
	East Miami Pit	Hamilton	sand & gravel	181,866	181,866	Hmn-48	IM-220
	Fernald Pit	Hamilton	sand & gravel	388,421	388,421	Hmn-42	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	42,983	42,983	Pky-WA	IM-2217

2009 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS (cont.)

Name, address, telephone number, and president/owner/ manager of company	Name of mine	County	Commodity	Sales (tons)	Production (tons)	State mine number	Mineral Resources permit number
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	17,671	21,342	Cn-828 Cn-WA	IM-1026 IM-2036
Willowbrook Sand & Gravel, LLC 39130 Brookfield St. P.O. Box 304 Lisbon, OH 44432 (330) 424-0742 Ray Perrino, owner	Willowbrook Sand & Gravel	Columbiana	sand & gravel	34,022	34,022	Ca-993	IM-1180
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	14,000	14,000	Ftn-W2	IM-2168
Wysong Gravel Co. 9325 W. Third St Dayton, OH 45427 (937) 456-4539 John D. Wysong, pres.	Wysong Gravel Co. Wysong Gravel Co.	Preble Preble	sand & gravel sand & gravel	47,360 129,614	46,823 129,302	Pre-6 Pre-4	IM-478 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	66,336	70,000	Pre-5	IM-447
X. L. Sand & Gravel Co., Inc. P.O. Box 255 Negley, OH 44441 (330) 426-9876 Raymond Lansberry, pres.	X. L. Sand & Gravel Co., Inc. X. L. Sand & Gravel Co., Inc.	Columbiana Columbiana	sand & gravel sand & gravel	47,200	47,200	Ca-XL Ca-881	IM-1347 IM-611
Xenia Sand & Gravel, Inc. 610 Dayton-Xenia Rd. Xenia, OH 45385 (937) 372-2978 Scott A. Filson, pres.	Xenia Sand & Gravel, Inc.	Greene	sand & gravel	3,547	3,547	Ge-10	IM-518
Young's Sand & Gravel Co. P.O. Box 117 Loudonville, OH 44842 (419) 994-3040 Myron Oswald, owner	Sprang & Youngs Ayers Spreng	Ashland Ashland Ashland	sand & gravel sand & gravel sand & gravel	22,208 74,512 86,808	22,208 74,512 86,808	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	4,950	4,950	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	13,288	13,288	We-15	IM-398

2009 LIMESTONE/DOLOMITE COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Anchor-Land, Ltd.	1	104,847	104,847	Martin Marietta Magnesia Specialties, Inc.	1	1,558,171	1,447,041
Anthony Mining Co., Inc.	1	36,781	36,781	The Melvin Stone Co., LLC	4	1,962,195	1,962,195
Arch Materials, LLC	1	236,949	430,550	National Lime & Stone Co.	10	7,611,000	7,599,000
Area Aggregates, LLC	1	102,372	102,372	North Shore Stone Quarries, Inc.	1	1,599	1,599
Barrett Paving Materials, Inc. MID-Ohio	4	658,897	560,431	Ohio Asphaltic Limestone Corp.	1	252,271	252,271
Belden Brick Co.	3	62,226	62,226	Olen Corp.	1	397,000	397,000
Bluffton Stone Co.	1	263,327	281,777	Oxford Mining Co., Inc.	1	494,786	494,786
C. F. Poeppelman, Inc.	1	255,760	255,760	Piqua Materials, Inc.	1	426,356	426,356
Cardinal Aggregates Inc.	1	226,200	226,200	Precision Aggregates II, LLC	1	158,730	158,730
Carmeuse Lime Inc.	3	1,870,384	1,882,382	Precision Aggregates III, LLC	1	63,940	63,940
CEMEX, Inc.	2	498,021	498,021	Putnam Stone Co.	1	204,366	182,157
Christman Quarries	1	83,920	83,920	Quality Stone Co.	1	45,040	45,040
Con-Ag, Inc.	1	190,368	190,368	Ridge Township Quarry	1	132,184	132,184
Cumberland Limestone, LLC	1	277,114	277,114	Shamrock Materials, Inc.	1	282,152	282,172
Custar Stone Co., Inc.	1	696,782	641,819	Sharon Stone Co.	1	111,214	111,214
Diamond Stone Quarries	1	15,229	15,229	Shelly Materials, Inc.	8	4,758,295	4,123,050
Duff Quarry, Inc.	1	356,305	356,305	Sidwell Materials, Inc.	3	679,923	679,035
East Fairfield Coal Co.	2	882,000	909,745	Stansley Mineral Resources	1	350,821	290,000
Egypt Valley Stone, LLC	1	128,316	128,316	Stoneco, Inc.	9	3,621,900	3,286,000
Erie Blacktop, Inc.	1	199,206	199,206	Thompson Mining Co.	1	85,529	85,529
ESSROC Cement Corp.	2	21,318	24,668	Waterloo Coal Co., Inc.	1	478,298	478,298
Gerken Materials, Inc.	1	272,893	293,209	Wysong Stone Co.	1	66,336	70,000
Graymont Dolime (OH) Inc.	1	453,705	484,800				
Hanson Aggregates Midwest, Inc.	9	7,878,474	6,960,238				
Kimble Clay & Limestone Co.	1	167,088	167,088	TOTAL: 53 companies	104	44,433,734	42,309,603
King Quarries, Inc.	1	75,178	75,178				
Lafarge Corp.	1	538,111	538,111				
Lafarge North America	2	2,567,285	2,418,048				
Latham Limestone LLC	1	350,955	350,955				
Marshall Quarry, Inc.	1	9,500	9,500				
Martin Marietta Aggregates	4	1,212,117	1,176,842				

2009 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: Ch-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—riprap, portland cement concrete, road construction/resurfacing, flux, asphalt, commercial building, extenders/fillers, unspecified, aglime	Ads-1
Allen	Bluffton Stone Co.	Bluffton Stone Co.	Richland	Tymochtee Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building, extenders/fillers, unspecified, aglime	An-1
	National Lime & Stone Co.	Lima Plant	Bath	Greenfield Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building	An-3
Athens	Diamond Stone Quarries	Diamond Stone	Lee	Brush Creek Ls (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	As-533
Auglaize	Con-Ag, Inc.	Con-Ag, Inc.	Noble	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, aglime	Ae-31
	National Lime & Stone Co.	Buckland Plant	Moulton	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, aglime	Ae-10
Belmont	Anchor-Land, Ltd.	Anchor Limestone	Colerain	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Bt-A
	Egypt Valley Stone, LLC	Shugert	Kirkwood, Union	Fishpot limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Bt-E
	Sidwell Materials, Inc.	Uniontown Stone	Wheeling	Fishpot limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Bt-N
Brown	Hanson Aggregates Midwest, Inc.	Eagle Crushed Stone	Eagle	Brassfield Limestone (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Bn-EC
Clermont	Arch Materials, LLC	Batavia	Jackson	Black River Group (Ordovician)	crushed stone—riprap, road construction/resurfacing, asphalt, commercial building	Ct-A
Clinton	Martin Marietta Aggregates	Clinton Limestone	Wilson	Cedarville Dolomite (Silurian)	crushed stone—road construction/resurfacing, commercial building	Cln-W
	The Melvin Stone Co., LLC	The Melvin Stone Co., LLC	Richland	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified, aglime	Cln-1

Crawford	National Lime & Stone Co.	Bucyrus Plant	Holmes	Columbus & Delaware Limestones (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building, extenders/fillers, aglime	Cd-1
Darke	Shamrock Materials, Inc.	Walls Material	Butler	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphalt, commercial building, extenders/fillers	Dke-1
Delaware	National Lime & Stone Co.	Delaware Plant	Scioto	Columbus & Delaware Limestones (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building, aglime	Del-5
	National Lime & Stone Co.	Meredith Quarry	Radnor	Columbus & Delaware Limestones (Devonian)	crushed stone—road construction/resurfacing	Del-2
Erie	Erie Blacktop, Inc.	Erie Blacktop Quarry	Margaretta	Columbus Limestone (Devonian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt	Ee-27
	Hanson Aggregates Midwest, Inc.	Sandusky Crushed Stone	Groton	Columbus and Delaware Limestones (Devonian) Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, unspecified, aglime	Ee-11
	Hanson Aggregates Midwest, Inc.	Wagner Quarry	Perkins	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, commercial building, unspecified	EE-1
Fayette	Martin Marietta Aggregates	Blue Rock Limestone	Perry	Tymochtee Dolomite (Silurian)	crushed stone—road construction/resurfacing, commercial building	Fe-2
Franklin	Shelly Materials, Inc.	Columbus Limestone #331	Franklin, Jackson, Marion	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Fn-53
	Shelly Materials, Inc.	Marble Cliff Plant #0332	Norwich	Columbus Limestone (Devonian)	crushed stone—road construction/resurfacing	Fn-2
Greene	CEMEX, Inc.	Miller, Schieder, Batdorf, Stewart	Bath	Salina Dolomite (Silurian) Brassfield Limestone (Silurian)	crushed stone—portland cement	Ge-8
	Martin Marietta Aggregates	Cedarville	Cedarville	Cedarville Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building	Ge-17
	The Melvin Stone Co., LLC	Bowersville	Jefferson	Cedarville Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphalt, commercial building, unspecified	Ge-M
Guernsey	Cumberland Limestone, LLC	Cumberland Limestone, LLC	Spencer	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Gy-309

2009 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
Hancock	National Lime & Stone Co.	Findlay Plant	Liberty	Salina Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt	Hk-7
Hardin	Shelly Materials, Inc.	Forest Quarry	Jackson	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, aglime	Hdn-S
Harrison	Shelly Materials, Inc.	Hardin Quarry	Pleasant	Tymochtee Dolomite (Silurian)	crushed stone—unspecified	Hdn-2
	Anthony Mining Co., Inc.	Patton-Mader	German	Ames limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Hn-A
	Oxford Mining Co., Inc.	Standingstone Mine	Cadiz	Redstone (Pennsylvanian)	crushed stone—road construction/resurfacing	Hn-O2
	Hanson Aggregates Midwest, Inc.	Highland Stone	Hamer	Brassfield & Dayton Limestones (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Hd-2
Highland					crushed stone—road construction/resurfacing	Hd-4
	Marshall Quarry, Inc.	Marshall Quarry, Inc.	Marshall	Peebles Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphalt, aglime	Hd-3
	Ohio Asphaltic Limestone Corp.	Ohio Asphaltic Limestone Corp.	Union	Peebles Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Jkn-367
Jackson	Waterloo Coal Co., Inc.	Waterloo Coal Stone Plant	Madison	Vanport limestone (Pennsylvanian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	
Logan	Duff Quarry, Inc.	Duff Quarry, Inc.	Richland	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Lgn-15
	Shelly Materials, Inc.	Belle Center	McArthur Richland	Lockport Dolomite (Silurian) Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building	Lgn-2
Lucas	ESSROC Cement Corp.	Sylvania Quarry	Sylvania	Detroit River Group & Dundee Limestone (Devonian)	crushed stone—road construction/resurfacing	Ls-12
	Hanson Aggregates Midwest, Inc.	Sylvania	Sylvania	Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, aglime	Ls-3
	Hanson Aggregates Midwest, Inc.	Waterville	Waterville	Greenfield and Tymochtee Dolomites, & Salina Group (Silurian)	crushed stone—riprap, portland cement concrete, railroad ballast, asphalt, extenders/fillers	Ls-1

Lucas	Stoneco, Inc.	Maumee Quarry	Waynesfield	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified, aglime	Ls-2
Mahoning	East Fairfield Coal Co.	Subtropolis	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Mg-EF1
	East Fairfield Coal Co.	Withers-Petersburg	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Mg-631
	ESSROC Cement Corp.	Carbon Quarry	Poland, Springfield	Vanport limestone (Pennsylvanian)	crushed stone—portland cement	Mg-EM
	Lafarge North America	Petersburg	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing, asphalt, commercial building	Mg-L
Marion	National Lime & Stone Co.	Marion Plant	Grand Prairie, Marion	Columbus & Delaware Limestones (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, aglime	Mn-3
Mercer	Stoneco, Inc.	Celina Quarry	Jefferson	Salina Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified, aglime	Mr-1
Miami	Barrett Paving Materials, Inc. MID-Ohio	Barrett Paving Materials Inc. - #231	Union	Brassfield Limestone (Silurian)	crushed stone—riprap, road construction/resurfacing	Mi-BPM
	Barrett Paving Materials, Inc. MID-Ohio	Bed Rock Properties	Union	Brassfield Limestone (Silurian)	crushed stone—riprap	Mi-502
	C. F. Poeppelman, Inc.	C. F. Poeppelman, Inc.	Newberry	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building, aglime	Mi-10
Monroe	Piqua Materials, Inc.	Piqua Minerals Division	Springcreek, Staunton	Brassfield & Dayton Limestones, Laurel Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, flux, commercial building, aglime	Mi-1
	Christman Quarries	Christman Quarry	Franklin, Seneca	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing, unspecified	Me-C
Montgomery	CEMEX, Inc.	G-Tract	Wayne	Brassfield Limestone (Silurian)	crushed stone—portland cement	My-58
	Martin Marietta Aggregates	Phillipsburg	Clay	Cedarville Dolomite (Silurian)	crushed stone—road construction/resurfacing, commercial building	My-1

2009 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
Muskingum	Shelly Materials, Inc.	East Fultonham	Newton	Maxville Limestone (Mississippian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Mum-106
	Sidwell Materials, Inc.	Dupler/Ford	Newton	Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing	Mum-SB
	Sidwell Materials, Inc.	White Cottage	Newton	Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing	Mum-104
	Thompson Mining Co.	Pleasant Valley Stone	Hopewell	Maxville Limestone (Mississippian)	crushed stone—riprap, road construction/resurfacing, unspecified	Mum-907
	King Quarries, Inc.	King Quarries, Inc.	Olive	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Ne-K1
Noble	Sharon Stone Co.	Sharon Stone Co.	Noble,	Fishpot limestone (Pennsylvanian)	crushed stone—riprap, commercial building, unspecified	Ne-S
			Sharon			
Ottawa	Graymont Dolime (OH) Inc.	Graymont Dolime (OH) Inc.	Clay	Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing	Oa-1 ¹
	Lafarge North America	Marblehead	Danbury	Columbus Limestone (Devonian) Detroit River Group (Devonian)	crushed stone—riprap, road construction/resurfacing, commercial building, extenders/fillers	Oa-7
	Stansley Mineral Resources	Stansley Mineral Resources Inc., Plant 301	Clay	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt	Oa-1 ¹
Paulding	Stoneco, Inc.	Rocky Ridge Quarry	Benton	Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing	Oa-14
	Stoneco, Inc.	White Rock Quarry	Allen	Lockport Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphalt, extenders/fillers, unspecified, aglime	Oa-6
	Hanson Aggregates Midwest, Inc.	Paulding	Crane	Tennmile Creek Dolomite (Devonian)	crushed stone—riprap, road construction/resurfacing, railroad ballast, asphalt, aglime	Pg-7
	Lafarge Corp.	Paulding Quarry	Crane	Dundee Limestone & Tennmile Creek Dolomite (Devonian)	crushed stone—road construction/resurfacing, portland cement	Pg-1
Pickaway	Stoneco, Inc.	Auglaize Quarry	Auglaize	Detroit River Group & Dundee Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, unspecified, aglime	Pg-2
	The Melvin Stone Co., LLC	Williamsport	Perry	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, unspecified	Pky-4

Pike	Latham Limestone LLC	Latham Limestone	Mifflin	Greenfield Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, unspecified	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—riprap, portland cement concrete, road construction/resurfacing, asphalt	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—road construction/resurfacing, commercial building, unspecified	Rs-MC1
Sandusky	Area Aggregates, LLC	Woodville Plant	Woodville	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, commercial building	Sy-A
	Carmeuse Lime Inc.	Millersville Plant	Jackson	Lockport Dolomite (Silurian)	crushed stone—aglime	Sy-4
	Carmeuse Lime Inc.	Woodville Plant	Woodville	Lockport & Salina Dolomites (Silurian)	crushed stone—road construction/resurfacing, aglime	Sy-3
	Martin Marietta Magnesia Specialties, Inc.	Woodville Quarry	Woodville	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building	Sy-1
	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Sandusky	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, commercial building	Sy-5-1
Seneca	Carmeuse Lime Inc.	Maple Grove	Liberty	Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing, commercial building, unspecified	Sa-2
	Hanson Aggregates Midwest, Inc.	Bloomville	Bloom	Columbus & Delaware Limestones (Devonian) Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, aglime	Sa-3
	North Shore Stone Quarries, Inc.	North Shore Stone Quarries, Inc.	Thompson	Greenfield Dolomite (Silurian)	crushed stone—riprap, dimension stone	Sa-8
Shelby	Barrett Paving Materials, Inc. MID-Ohio	Miami River Quarry	Orange	Lockport Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing	Shy-17
	Barrett Paving Materials, Inc. MID-Ohio	Vandemark Quarry #221	Clinton	Lockport Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing	Shy-15

¹Graymont and Stansley operate from the same quarry.

2009 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
Tuscarawas	Belden Brick Co.	Moomaw Pit	Sugar Creek	Vanport limestone (Pennsylvanian)	crushed stone—riprap	Ts-1517
	Belden Brick Co.	Shanesville Pit	Sugar Creek	Vanport limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Ts-1939
	Belden Brick Co.	Wallick Pit	Franklin, Wayne	Vanport limestone (Pennsylvanian)	crushed stone—riprap	Ts-1841
	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Pennsylvanian	crushed stone—road construction/resurfacing	Ts-1818
	Shelly Materials, Inc.	Ostrander Quarry	Mill Creek	Columbus Limestone (Devonian)	crushed stone—road construction/resurfacing, asphalt, commercial building, unspecified	Un-2
Union	Shelly Materials, Inc.	York Center Quarry	York	Salina Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphalt, commercial building, aglime	Un-1
	National Lime & Stone Co.	Delphos Quarry	Washington	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road	Vt-1
	Ridge Township Quarry	Ridge Township Quarry	Ridge	Tymochtee Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphalt building, unspecified	Vt-7
Vinton	Stoneco, Inc.	Scott Quarry	Union	Salina Dolomite (Silurian)	crushed stone—portland cement concrete, road	Vt-3
	Quality Stone Co.	Route 32	Clinton	Vanport limestone (Pennsylvanian)	crushed stone—road construction/resurfacing, asphalt, commercial building, aglime	Vn-193
	Cardinal Aggregates Inc.	Cardinal Aggregates LLC	Perrysburg	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Wd-C
Wood	Custar Stone Co., Inc.	Custar Stone Co., Inc.	Milton	Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt	Wd-5
	Gerken Materials, Inc.	Gerken Materials, Inc.	Perry	Lockport & Salina Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphalt, extenders/fillers	Wd-1
	Precision Aggregates II, LLC	Precision Aggregates II, LLC	Portage	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing	Wd-14

Wood	Stoneco, Inc.	Lime City Quarry	Perrysburg	Lockport Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Wd-6
	Stoneco, Inc.	Portage Quarry	Portage	Greenfield & Lockport Dolomites (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building, unspecified	Wd-11
Wyandot	National Lime & Stone Co.	Carey Plant	Crawford	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, flux, asphalt, commercial building, extenders/fillers, aglime	Wt-1
	Olen Corp.	Upper Sandusky	Pitt	Salina Group (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphalt, commercial building	Wt-3
	Stoneco, Inc.	Carey Quarry	Crawford	Greenfield & Lockport Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphalt, commercial building, unspecified, aglime	Wt-8

2009 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	235,611	238,378	Hanson Aggregates Midwest, Inc.	2	930,320	941,276
Alden Excavating	1	6,485	6,485	Hartley Gravel	1	6,820	6,820
Allgeier & Son, Inc.	3	100,000	100,000	Harvest Sand & Gravel, Inc.	1	40,028	40,028
Alvis Landscape/Golf Course	1	34,762	34,762	Heiser Sand & Gravel Corp.	1	7,523	7,523
American Sand & Gravel, Inc.	2	506,280	506,280	Hocking Valley Concrete, Inc.	1	38,847	49,000
Ashcraft Sand & Gravel, Inc.	1	1,550	1,550	William A. Hoffman, Jr.	1	355	355
Atlas Towing Co.	1	7,080	7,080	Holmes Redimix, Inc.	1	72,890	33,857
Baker Sand, Inc.	1	259,000	259,000	Holmes Supply Corp.	1	256,281	256,281
Ballentine Excavation Co.	1	71,211	71,211	Terry A. Hoppes	1	11,617	11,617
Barrett Paving Materials, Inc.	9	1,207,463	1,009,037	J. E. Nicolozakes Co.	1	197,000	197,000
Bartley & Bolin Excavating	2	129,129	129,129	Jaclib Enterprises, Inc.	1	854	854
Beck Sand & Gravel, Inc.	1	222,404	222,404	JALIP, Ltd.	1	8,315	8,315
Black Top Contracting, Inc.	1	19,801	19,801	Jaymar, Inc.	1	540,118	540,118
Bontrager Excavating Co.	1	4,081	4,081	JBM Ltd.	1	21,857	21,857
Boone Coleman Construction, Inc.	2	154,005	154,005	Joe Simak & Sons Trucking, Inc.	2	13,134	13,135
Boyas Excavating, Inc.	1	20,512	20,512	Joe Yochman Excavating, Inc.	1	560	560
Boyd Excavating	1	2,510	9,960	John L. Garber Materials, Inc.	1	102,681	102,682
Briggs Sand & Gravel, Inc.	1	6,752	6,752	K.C. Sand & Gravel LLC	1	3,540	3,540
Brookside Materials, LLC	1	65,000	75,000	KCI Sand & Gravel	1	49,784	57,784
Broshear Contractors, Inc.	1	42,948	42,948	Kinsman Materials, Ltd.	1	29,514	29,514
Carl E. Oeder and Sons	1	351,844	351,844	Kirby's Sand & Gravel, Inc.	1	96,605	96,605
Joe E. Carter	1	1,450	1,450	L & I Natural Resources, Inc.	1	81,072	81,072
Carter & Carter, Inc.	1	307	307	L & M Mineral Co.	1	5,320	5,320
Central-Allied Enterprises, Inc.	4	587,787	587,787	Lafarge North America	1	555,292	411,558
Chesterville Sand & Gravel Co., Inc.	1	221,970	221,970	Lakeside Sand & Gravel Co.	2	527,300	527,300
Harlen D. & Barbara L. Clark	1	6,675	6,675	Link Trucking Co., Inc.	1	37,761	37,761
Clemson Excavating, Inc.	1	1,455	1,455	Little Miami Sand & Gravel	2	1,180	1,180
Cochran Transportation Services, Inc.	1	37,259	37,259	Loxley Aggregates, Inc.	1	1,056	1,056
Cremeans Concrete & Supply	1	6,783	6,783	LUB Inc.	1	12,141	12,141
D & K Materials, Inc.	1	69,660	69,660	M. J. Coates Construction Co., Inc.	1	50,815	50,815
D. H. Bowman & Sons, Inc.	1	33,500	85,696	Martin Marietta Aggregates	9	2,602,454	2,632,604
D.B.M. Materials, LLC	1	76	76	MAR-ZANE Materials, Inc.	1	188,713	195,875
D.G.M., Inc.	2	107,864	107,864	Mason's Sand & Gravel Co.	1	35,612	35,612
Demmy Sand & Gravel	1	11,096	11,096	Massillon Materials, Inc.	2	653,988	653,988
Dingledine Basic Materials, Inc.	1	55,357	55,357	Mathews Sand & Gravel	1	400	400
John R. Doherty	1	115	115	Mechanicsburg Sand & Gravel, Inc.	1	63,027	63,027
James E. Downard	1	2,262	2,262	The Melvin Stone Co., LLC	1	127,026	127,026
Duff Quarry, Inc.	2	4,180	4,180	Miami View Mining Co., Ltd.	1	486,045	486,045
E. E. Blair Construction Co.	1	27,500	27,500	Mid Ohio Resources	1	72,349	87,097
David E. Edgington	1	2,838	2,838	Miller Bros. Gravel, Inc.	1	126,893	188,640
Enon Sand & Gravel, LLC	1	432,426	432,426	Miller's Sand & Gravel, Inc.	1	129	129
Erie Materials, Inc.	1	500	500	Milton Materials, LLC	1	64,350	64,350
Ervin Hill Enterprises, Inc.	1	79,455	79,455	Jerry Mock	1	1,067	1,067
Evans Gravel, Inc.	2	86,052	218,015	Moore's Excavating Co.	1	179	0
Feikert Sand & Gravel, Inc.	1	118,531	118,531	Moraine Materials Co., Inc.	2	184,068	108,468
Fleming Construction Co., Inc.	2	68,882	68,882	Morrow Gravel Co.	2	274,988	274,988
Foureman's Sand & Gravel, Inc.	1	71,925	71,925	Muskingum River Gravel Co.	4	384,970	407,959
Lloyd B. Fry	1	763	763	National Aggregates, Inc.	1	47,124	0
Frye Sand & Gravel, Inc.	1	79	79	National Lime & Stone Co.	2	427,000	427,000
G. E. Baker Construction, Inc.	1	42,000	78,386	Neer's Sand & Gravel	1	111,029	111,029
Ganges Gravel Co.	1	16,805	22,200	Nelson Sand & Gravel, Inc.	1	40,640	40,640
GANS Ltd.	1	5,986	2,500	Newton Asphalt Paving, Inc.	1	116,961	116,961
George J. Igel & Co., Inc.	1	99	99	Olen Corp.	4	1,913,000	1,913,000
Gibson Sand & Gravel Co.	1	300	300	Oscar Brugmann Sand & Gravel, Inc.	1	439,206	439,206
Grimes Excavating	1	29,990	29,990	Oster Sand & Gravel, Inc.	2	537,101	537,101

2009 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)
Ours Sand & Gravel	1	2,991	2,991	South Central Sand & Gravel	1	23,750	23,750
Patrick Excavating, Inc.	1	634	634	St. Joe Sand & Gravel, LLC	1	92,978	105,829
Paul D. Beery Trucking Co.	1	1,094	1,328	Stocker Sand & Gravel Co.	2	831,700	831,700
Phillips Sand & Gravel	1	247,785	247,785	Joseph N. Sypniewski	1	339	339
Phoenix Asphalt Company, Inc.	1	41,704	41,704	T & K Kuhnle Co.	1	4,838	4,838
Portage Aggregate & Supply, LLC	1	61,834	61,834	The Terry Byrne Mining Co.	1	1,000	1,000
Precision Aggregates I, LLC	1	45,220	45,220	Thiel Construction Co.	1	1,623	1,623
Precision Aggregates III, LLC	1	910	910	Thomas Sand & Gravel	1	50	50
Quality Ready Mix, Inc.	1	12,086	12,086	Tiger Sand & Gravel, LLC	1	59,240	59,240
R. A. Cruise Sand & Gravel, Inc.	1	10,433	10,433	Tipp Stone Co., Inc.	2	19,692	19,692
R. J. Martin Service & Excavating	1	382	382	Top Dog Service Company	1	1,000	1,000
R. L., Ltd.	1	800	800	Trout Sand & Gravel Co.	1	5,814	5,452
R. W. Sidley, Inc.	1	32,400	32,000	Tuffco Sand & Gravel, Inc.	1	100,504	100,504
RAK, Inc.	1	10,393	10,393	Twinsburg Development Corp.	1	107,097	107,097
Razor Lake S. & G., LLC	1	45,799	45,799	United Aggregates, Inc.	2	168,937	180,905
Rockwell Sand & Gravel, Inc.	1	26,678	26,678	U.S. Aggregates, Inc.	1	136,128	174,563
Roy M. Roush	1	1,055	1,055	Valley Materials Co.	1	9,200	9,200
Rupp Construction, Inc.	1	116,655	116,655	Walhonding Sand & Gravel	1	75,499	75,499
S & R Aggregate	1	312	312	Ward Materials, Inc.	1	10,195	7,900
S & S Aggregate, Inc.	3	447,033	429,037	Watson Gravel, Inc.	7	1,535,102	1,539,631
SAMCO, Inc.	1	41,768	41,768	Weber Sand & Gravel, Inc.	1	129,685	129,685
Sam's Excavating Unlimited, Inc.	1	8,109	8,109	Weidle Sand & Gravel, Inc.	1	94,939	94,939
Sandman Trucking, Inc.	1	44,621	44,621	Welch Sand & Gravel, Inc.	3	668,298	668,298
Scassa Asphalt, Inc.	1	2,500	5,000	Westfall Aggregate & Materials, Inc.	1	42,983	42,983
Guy Schieve	1	3,640	3,640	William Albert, Inc.	1	17,671	21,342
Mark E. Scott	1	2,750	2,750	Willowbrook Sand & Gravel, LLC	1	34,022	34,022
Shamrock Materials, Inc.	1	166,847	166,847	Wylie and Sons Landscaping	1	14,000	14,000
Sharon Stone Co.	1	315,294	315,294	Wysong Gravel Co.	2	176,974	176,125
Shelly Materials, Inc.	13	2,838,323	2,970,381	X. L. Sand & Gravel Co., Inc.	1	47,200	47,200
Sidco Development, Inc.	1	154,523	154,523	Xenia Sand & Gravel, Inc.	1	3,547	3,547
Small's Sand & Gravel, Inc.	3	205,571	205,571	Young's Sand & Gravel Co.	3	183,528	183,528
Sober Sand & Gravel Co.	1	138,806	138,806	Zemba Farms, Ltd.	1	4,950	4,950
Soehnlén Bros. Sand & Gravel, Inc.	1	216,669	216,669	Zollinger Sand & Gravel Co.	1	13,288	13,288
Solomon's Mines, Inc.	2	60,920	60,920				
Soltis Sand & Gravel	1	322	322	TOTAL: 178 companies	252	28,101,886	28,190,712

2009 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 mine or quarry	Township	Type and principal use	State mine number
Allen	Ward Materials, Inc.	Ward Materials, Inc.	Monroe	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, road construction/resurfacing, filtration, unspecified	An-W
Ashland	Bartley & Bolin Excavating	Bartley & Bolin, Inc. James Plant	Lake	sand—building gravel—building	Ald-B
	G. E. Baker Construction, Inc.	Humphrey	Lake	gravel—building	Ald-GB
	Young's Sand & Gravel Co.	Sprang & Youngs	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
		Spreng	Green	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Ald-Y
Ashtabula	Clemson Excavating, Inc.	Clemson Excavating Sand & Gravel	Hartsgrove	sand—fill gravel—building, filtration	Asa-C
	Frye Sand & Gravel, Inc.	Frye Sand & Gravel, Inc.	Monroe	sand—building gravel—building	Asa-F
	Joe Simak & Sons Trucking, Inc.	Amboy Pit	Kingsville	sand—building, road construction/resurfacing, fill, ice control gravel—building	Asa-ST
		North Ridge Pit	Kingsville	sand—building gravel—building	Asa-18
	John R. Doherty	Doherty	Richmond	sand—fill gravel—filtration	Asa-JD
	Joseph N. Sypniewski	Sypniewski	Trumbull	gravel—building	Asa-SY
	Kinsman Materials, Ltd.	Kinsman Materials, Ltd.	Wayne	sand—building, fill gravel—building, filtration	Asa-20
	Mathews Sand & Gravel	Mathews Sand & Gravel	N. Kingsville	sand—building gravel—building	Asa-M
	Nelson Sand & Gravel, Inc.	Nelson Sand & Gravel, Inc.	Kingsville	sand—building gravel—building	Asa-N1

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Ashtabula	R. W. Sidley, Inc.	Sidley-Kingsville Plant	Kingsville	sand—building gravel—building, filtration	Asa-15
Athens	Black Top Contracting, Inc.	York Twp. Trustees	York	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	As-BT
Auglaize	Cochran Transportation Services, Inc. Quality Ready Mix, Inc.	Circle Hill Quality Pit	Dover Pusheta	sand—building gravel—building sand—building, portland cement concrete gravel—building	As-595 Ae-16
Butler	Alvis Landscape/Golf Course Broshear Contractors, Inc. Dingledine Basic Materials, Inc. Martin Marietta Aggregates	Ross Green Heron Dingledine Basic Materials, Inc. Fairfield Sand & Gravel	Ross Ross Milford Fairfield, Ross	sand—golf course gravel—building sand—pipe bedding gravel—pipe bedding sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Br-A Br-B Br-50 Br-35
	Martin Marietta Aggregates	Ross Sand & Gravel	Fairfield, Ross	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Br-29
	Shamrock Materials, Inc.	Shamrock	Madison	sand—building, portland cement concrete gravel—building, portland cement concrete, road construction/resurfacing	Br-52
	Watson Gravel, Inc.	Mecco, Inc.	Lemon	sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Br-15
		Ongais Plant #1 River Pit	Madison Fairfield	gravel—unspecified sand—building gravel—building, road construction/resurfacing	Br-O Br-57

Butler	Watson Gravel, Inc.	Watson Pit	Fairfield, Ross	sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Br-47
	Welch Sand & Gravel, Inc.	Schlichter Pit	Fairfield	sand—building gravel—building	Br-38
Carroll	Phoenix Asphalt Company, Inc.	Smith	Rose	sand—asphaltic concrete gravel—asphaltic concrete	Cl-P
Champaign	Mechanicsburg Sand & Gravel, Inc.	Mechanicsburg Sand & Gravel, Inc.	Union	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Cpn-22
	Moore's Excavating Co.	Moore's Excavating Co.	Salem	sand—building gravel—building	Cpn-20
	Morrow Gravel Co.	Urbana	Urbana	sand—portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Cpn-1
Clark	Barrett Paving Materials, Inc.	Barrett Paving Materials, Inc.	Mad River	sand—building, asphaltic concrete gravel—building, asphaltic concrete	Clk-28
	Demmy Sand & Gravel	Demmy Sand & Gravel	Mad River	sand—building gravel—filtration	Clk-502
	Enon Sand & Gravel, LLC	Enon Sand & Gravel, LLC	Bethel, Mad River	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Clk-3
	Martin Marietta Aggregates	Fairborn Gravel	Bethel	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Clk-13
	Terry A. Hoppes	Mitchell Gravel Pit	Springfield	sand—building gravel—building	Clk-TH
Clermont	Evans Gravel, Inc.	Evans Gravel, Inc.	Union	sand—asphaltic concrete gravel—asphaltic concrete	Ct-9
Columbiana	Hartley Gravel	Hartley Gravel	Knox	sand—building gravel—building	Ca-H1

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Columbiana	Harvest Sand & Gravel, Inc.	Eberly	Salem	sand—asphaltic concrete, unspecified gravel—unspecified	Ca-H2
	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	sand—road construction/resurfacing, fill gravel—building, road construction/resurfacing, filtration	Ca-S
	Willowbrook Sand & Gravel LLC	Willowbrook Sand & Gravel	Elk Run	sand—building gravel—building	Ca-993
	X. L. Sand & Gravel Co., Inc.	X. L. Sand & Gravel Co., Inc.	Middleton	sand—building gravel—building	Ca-881
Coshocton	Razor Lake S. & G., LLC	Razor Lakes S. & G., LLC	Oxford	sand—asphaltic concrete, industrial sand gravel—building	Cn-R
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1305	Bethlehem	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Cn-694
	Walhonding Sand & Gravel	Walhonding Valley Sand & Gravel	New Castle	sand—building gravel—road construction/resurfacing	Cn-WL
	William Albert, Inc.	William Albert, Inc. Pit 2	Lafayette	sand—building, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, filtration	Cn-WA
Crawford	Gibson Sand & Gravel Co.	Gibson Sand & Gravel Co.	Jefferson	sand—unspecified	Cd-G
Cuyahoga	Boyas Excavating, Inc.	Boyas Excavating, Inc.	Independence	sand—unspecified	Cya-42
	Fourman's Sand & Gravel, Inc.	Fourman's Sand & Gravel, Inc.	Greenville	sand—unspecified gravel—building	Dke-4
Defiance	K.C. Sand & Gravel, LLC	Kartstadt	Farmer	sand—building gravel—building	De-K
	Weber Sand & Gravel, Inc.	Weber Sand & Gravel, Inc.	Milford	sand—building, portland cement concrete gravel—building, decorative gravel—unspecified	Ws-11
Erie	Erie Materials, Inc.	Borchardt	Groton, Margaretta		Ee-18
Fairfield	James E. Downard	Downard Pit	Rush Creek	sand—unspecified	Fd-16
	Paul D. Beery Trucking Co.	Paul D. Beery Trucking Co.	Berne	sand—building gravel—building	Fd-14

Fairfield	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #1314	Berne	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Fd-13
Franklin	Agg Rok Materials	Agg Rok	Franklin	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Fn-36
	D.B.M. Materials, LLC	D.B.M. Materials, LLC	Hamilton, Madison	sand—building, asphaltic concrete gravel—building, asphaltic concrete gravel—unspecified	Fn-14
	Mason's Sand & Gravel Co.	Mason's Sand & Gravel Co.	Hamilton	sand—building gravel—building	Fn-11
	National Lime & Stone Co.	Columbus Plant	Hamilton	sand—building, portland cement concrete gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing	Fn-52
	Olen Corp.	Columbus Plant #3	Hamilton	sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete	Fn-58
	Shelly Materials, Inc.	Lockbourne Pit	Hamilton	sand—building gravel—building	Fn-23
Fulton	Harlen D. & Barbara L. Clark	Clark	Chesterfield	sand—building gravel—building	Ftn-C
	Sandman Trucking, Inc.	Sandman Trucking, Inc.	Swan Creek	sand—building	Ftn-SA1
	Wylie and Sons Landscaping	Wylie and Sons Landscaping	Swan Creek	sand—building	Ftn-W2
Gallia	Cremeans Concrete & Supply	Cremeans Concrete & Supply Co., Inc.	Addison	sand—building gravel—building	Ga-626
	Jaclib Enterprises, Inc.	Cheshire Pit	Cheshire	gravel—filtration	Ga-JE
	Ours Sand & Gravel	Ours Sand & Gravel	Ohio	sand—building	Ga-O
Geauga	Soltis Sand & Gravel	Soltis Sand & Gravel	Parkman	sand—unspecified gravel—unspecified	Gea-9
	T & K Kuhnle Co.	Munn Materials	Auburn	sand—building gravel—building	Gea-TK
Greene	Barrett Paving Materials, Inc.	Fairborn Aggregate Plant	Bath	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Ge-4

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Greene	M. J. Coates Construction Co., Inc.	M. J. Coates Construction Co., Inc.	Spring Valley	sand—road construction/resurfacing gravel—road construction/resurfacing	Ge-G
	Martin Marietta Aggregates	Cook Rd	Spring Valley	sand—unspecified gravel—unspecified	Ge-MM
	Phillips Sand & Gravel	Phillips Sand & Gravel	Beaver Creek	sand—building gravel—building	Ge-36
	R. J. Martin Service & Excavating Xenia Sand & Gravel, Inc.	Horseshoe Bend Sand & Gravel, Inc. Xenia Sand & Gravel, Inc.	Spring Valley Xenia	gravel—unspecified sand—building gravel—building	Ge-40 Ge-10
Hamilton	Allgeier & Son, Inc.	Allgeier & Son, Inc.	Miami	sand—building gravel—building	Hmn-C
		Allgeier & Son, Inc. Pit 1	Miami	sand—building gravel—building	Hmn-AS1
		Allgeier & Son, Inc. Pit 2	Whitewater	sand—building gravel—building	Hmn-AS
	Ashcraft Sand & Gravel, Inc.	Ashcraft Sand & Gravel, Inc.	Whitewater	sand—building gravel—building	Hmn-54
	Evans Gravel, Inc.	Evans Gravel, Inc.	Anderson	sand—asphaltic concrete gravel—asphaltic concrete	Hmn-E
	Hanson Aggregates Midwest, Inc.	Dry Fork Sand & Gravel	Harrison, Whitewater	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Hmn-50
	Joe E. Carter	Lost Bridge	Whitewater	sand—building gravel—filtration	Hmn-JC
	Martin Marietta Aggregates	E-town Sand & Gravel	Whitewater	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Hmn-71
	Martin Marietta Aggregates R. L., Ltd.	Harrison Sand & Gravel R. L., Ltd.	Harrison Crosby	sand—building sand—building gravel—building	Hmn-37 Hmn-67
	Top Dog Service Company Watson Gravel, Inc.	Whitewater Reclamation Company Dry Fork	Whitewater Whitewater	gravel—unspecified sand—unspecified gravel—unspecified	Hmn-G Hmn-68

Hamilton	Watson Gravel, Inc.	Harrison #2	Whitewater	
		Minges-Getz	Miami	sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing
	Welch Sand & Gravel, Inc.	East Miami Pit	Colerain	Hmn-48
		Fernald Pit	Crosby	Hmn-42
Highland	Ervin Hill Enterprises, Inc.	Ervin Hill Enterprises, Inc.	New Market	Hd-L
Hocking	Hocking Valley Concrete, Inc.	Hocking Valley Concrete, Inc.	Green	Hg-262
	KCI Sand & Gravel	KCI Sand & Gravel	Green	Hg-HA
Hocking	MAR-ZANE Materials, Inc.	Enterprise Pit	Falls	Hg-HV
	Muskingum River Gravel Co.	S & S Aggregate #8	Green, Starr	Hg-301
Holmes	Feikert Sand & Gravel, Inc.	Feikert Sand & Gravel, Inc.	Salt Creek	Hs-511
	Holmes Redimix, Inc.	Holmes Redimix, Inc.	Hardy	Hs-82

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Holmes	Holmes Supply Corp.	Holmes Supply Corp.	Prairie	sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Hs-J
	Olen Corp.	Fredericktown Plant #2	Morris	sand—building, portland cement concrete, asphaltic concrete	Kx-O
Knox	Small's Sand & Gravel, Inc.	Small's Sand & Gravel, Inc.	Howard	gravel—building, asphaltic concrete, road construction/resurfacing	Kx-S
		Small's Sand & Gravel, Inc.	Harrison	sand—building gravel—building	Kx-15
	United Aggregates, Inc.	Small's Sand & Gravel, Inc.	Harrison	sand—building, road construction/resurfacing, unspecified	Kx-17
		Small's Sand & Gravel, Inc.	Harrison	gravel—building, road construction/resurfacing, unspecified	
Licking	United Aggregates, Inc.	United Aggregates, Inc.	Clinton	sand—building gravel—building	Kx-3
		United Aggregates, Inc.	Union	sand—portland cement concrete gravel—building, road construction/resurfacing, filtration, unspecified	Kx-5
	Brookside Materials, LLC	Brookside Materials, LLC	St. Albans	sand—portland cement concrete gravel—building	Lg-B
	Jerry Mock	Jerry Mock	Madison	sand—building gravel—building	Lg-504
	Olen Corp.	St. Louisville Plant #5	Washington	sand—building, portland cement concrete, asphaltic concrete	Lg-31
	Shelly Materials, Inc.	Van Wey Sand & Gravel Plant #1312	Newton	gravel—building, asphaltic concrete, road construction/resurfacing	Lg-10
Logan	Boyd Excavating	Boyd Excavating	Monroe	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Lgn-B
	Duff Quarry, Inc.	Duff Quarry, Inc.	Lake	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified sand—building gravel—filtration sand—fill	Lgn-36

Logan	Duff Quarry, Inc. Neer's Sand & Gravel	Duff Sand Co. Neer's Sand & Gravel	Washington Union	sand—building, portland cement concrete	Lgn-31
Lorain	Guy Schieve	Schieve Pit	Henrietta	sand—building gravel—building	Lgn-6
Madison	Tuffco Sand & Gravel, Inc.	Tuffco Sand & Gravel, Inc.	Darby	sand—building	Ln-12
Mahoning	Joe Yochman Excavating, Inc.	Yochman	Milton	sand—building, asphaltic concrete gravel—building	Mdn-11
	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Green	sand—building gravel—building	Mg-Y
Marion	Fleming Construction Co., Inc.	Pit #1	Prospect	sand—building gravel—road construction/resurfacing	Mg-632
		Pit #2	Prospect	sand—building gravel—unspecified	Mn-16
Medina	Baker Sand, Inc.	Baker Sand, Inc.	Harrisville, Westfield	sand—building, portland cement concrete gravel—building	Mn-19
Meigs	Jaymar, Inc.	Plant #4	Olive	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Ma-20
	Martin Marietta Aggregates	Apple Grove Plant	Letart	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Ms-308
	Shelly Materials, Inc.	Portland Plant	Lebanon	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Ms-205
				sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Ms-S
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	
				sand—building, asphaltic concrete, road construction/resurfacing, unspecified	Ms-298
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	
Miami	Lloyd B. Fry	Lloyd B. Fry	Washington	gravel—road construction/resurfacing	Mi-T

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Miami	Martin Marietta Aggregates	Troy Sand & Gravel	Concord	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Mi-3
	Milton Materials, LLC	Milton Materials Fenner Pit	Newton	sand—portland cement concrete gravel—building	Mi-4
	Tipp Stone Co., Inc.	Tipp Stone Co., Inc.	Elizabeth	sand—unspecified gravel—unspecified	Mi-12
	Barrett Paving Materials, Inc	West Carrollton Aggregate Plant	Jefferson Miami	sand—building, portland cement concrete, asphaltic concrete, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	My-19
Montgomery	Carter & Carter, Inc.	Carter & Carter, Inc.	Miami	gravel—road construction/resurfacing	My-CW
	Miller Bros. Gravel, Inc.	Miller Bros. Gravel, Inc.	Butler	sand—building, portland cement concrete gravel—building, portland cement concrete	My-52
	Moraine Materials Co., Inc.	Germantown Plant #21	German	sand—building gravel—building	My-41
	Tipp Stone Co., Inc.	Tipp Stone Co., Inc.	Butler	sand—unspecified gravel—unspecified	My-61
Morgan	Weidle Sand & Gravel, Inc.	Weidle	German	sand—building gravel—building	My-W1
	Link Trucking Co., Inc.	Matthew	Bloom	sand—unspecified gravel—unspecified	Mon-L
	Chesterville Sand & Gravel Co., Inc.	Chesterville Sand & Gravel Co., Inc.	Chester	sand—building, fill gravel—building, road construction/resurfacing, filtration, unspecified	Mw-10
Muskingum	LUB, Inc.	LUB, Inc.	Muskingum	sand—building gravel—building	Mum-LB
	Muskingum River Gravel Co.	S & S Aggregate #1	Wayne	sand—building, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Mum-228
Muskingum	Shelly Materials, Inc.	Shelly Materials, Inc. - Dresden	Cass	sand—building, unspecified gravel—road construction/resurfacing, unspecified	Mum-799
	Zemba Farms, Ltd.	Zemba Brothers, Inc.	Muskingum	sand—unspecified gravel—unspecified	Mum-Z
Pickaway	George J. Igel & Co., Inc.	George J. Igel & Co., Inc.	Darby	gravel—road construction/resurfacing	Pky-C

Pickaway	Roy M. Roush	R Farm S & G	Darby	sand—road construction/resurfacing gravel—road construction/resurfacing	Pky-RR
	Sam's Excavating Unlimited, Inc.	Scioto Aggregates	South Bloomfield	sand—building gravel—building	Pky-S
	The Melvin Stone Co., LLC	Circleville	Wayne	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, asphaltic concrete, road construction/resurfacing	Pky-R
	Westfall Aggregate & Materials, Inc.	Hill Road Pit	Jackson	sand—building gravel—building	Pky-WA
	William A. Hoffman, Jr.	Hoffman Pit	Wayne	gravel—unspecified	Pky-H
Pike	Hanson Aggregates Midwest, Inc.	Piketon Sand & Gravel	Scioto	sand—building, asphaltic concrete, unspecified gravel—building, road construction/resurfacing, unspecified	Pke-24
	South Central Sand & Gravel	South Central Sand & Gravel	Scioto	sand—portland cement concrete gravel—road construction/resurfacing	Pke-30
	Valley Materials Co.	Valley Materials #2	Scioto	sand—building gravel—building	Pke-V
	Ballentine Excavation Co.	Ballentine Lake	Shalersville	sand—portland cement concrete gravel—building	Pe-BA
Portage	Beck Sand & Gravel, Inc.	Beck Sand & Gravel, Inc.	Portage, Shalersville	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Pe-50
	D & K Materials, Inc.	D & K Materials, Inc.	Brimfield	sand—building, asphaltic concrete gravel—building	Pe-101
	GANS Ltd.	Gans Ltd. dba Brimfield Sand & Soils	Brimfield	sand—building gravel—building	Pe-102
	Lafarge North America	Shalersville North	Shalersville	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Pe-La
	Lakeside Sand & Gravel Co.	Lakeside Sand & Gravel Co.	Shalersville	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, asphaltic concrete, road construction/resurfacing	Pe-40
		Lakeside Sand & Gravel Co.	Shalersville	sand—building	Pe-LS

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Portage	Miller's Sand & Gravel, Inc.	Miller Sand & Gravel, Inc.	Windham	sand—unspecified	Pe-39
	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Pe-9
	Patrick Excavating, Inc.	Patrick	Charlestown	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Pe-P
	Portage Aggregate & Supply, LLC	Portage Aggregate & Supply, LLC	Shalersville	sand—building	Pe-M
	R. A. Cruise Sand & Gravel, Inc.	R. A. Cruise Sand & Gravel, Inc.	Franklin Ravenna	sand—building gravel—building	Pe-45
	RAK, Inc.	Rainbow Sand & Gravel, Inc.	Shalersville	sand—portland cement concrete, unspecified gravel—building	Pe-64
	Rockwell Sand & Gravel, Inc.	Suffield Aggregate, LLC	Suffield	sand—building gravel—building	Pe-R
	S & S Aggregate, Inc.	S & S Aggregate #16	Ravenna	sand—building, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, unspecified	Pe-15
	Shelly Materials, Inc.	Jefferson Materials Plant #1302	Streetsboro	sand—portland cement concrete, asphaltic concrete gravel—asphaltic concrete	Pe-63
	Sober Sand & Gravel Co.	Sober Sand & Gravel Co.	Rootstown	sand—building, portland cement concrete gravel—filtration	Pe-18
	Twinsburg Development Corp.	Twinsburg Development Corp.	Aurora	sand—building gravel—building	Pe-84
	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin	sand—building gravel—road construction/resurfacing	Pre-9
	Thomas Sand & Gravel	Thomas Sand & Gravel	Lanier	sand—fill gravel—filtration	Pre-T
	U.S. Aggregates, Inc.	U.S. Aggregates/Richmond Plant	Jefferson	sand—building gravel—building	Pre-AAC
Preble	Wysong Gravel Co.	Wysong Gravel Co.	Somers	sand—building gravel—building	Pre-4
		Wysong Gravel Co.	Twin	sand—building gravel—building	Pre-6

Richland	Bartley & Bolin Excavating	McNaul Road Plant	Weller	sand—building gravel—building	Rd-20
	D. H. Bowman & Sons, Inc.	D. H. Bowman & Sons, Inc.	Jefferson	sand—building, portland cement concrete, asphaltic concrete, ballfield gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Rd-4
	Ganges Gravel Co.	Ganges Gravel Co.	Cass	sand—fill gravel—building	Rd-18
	John L. Garber Materials, Inc.	John L. Garber Materials, Inc.	Troy	sand—building gravel—building	Rd-14
	John L. Garber Materials, Inc.	John L. Garber Materials, Inc.	Washington	sand—building gravel—building	Rd-G
	Mid Ohio Resources	Bellville West	Jefferson	sand—portland cement concrete gravel—building, road construction/resurfacing, ice control	Rd-M1
	S & S Aggregate, Inc.	S & S Aggregate #14	Monroe	sand—building, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Rd-5
	The Terry Byrne Mining Co.	The Terry Byrne Mining Co.	City of Bellville	sand—building gravel—building	Rd-TB
	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	Mark E. Scott	Scott Pit	Green	sand—building gravel—building	Rs-P
	Muskingum River Gravel Co.	S & S Aggregate Plant #7	Jefferson	sand—building, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Rs-M
	Shelly Materials, Inc.	Chillicothe	Liberty	sand—building gravel—building	Rs-G
		Shelly Material, Inc. Plant #1321	Springfield	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Rs-27

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Sandusky Scioto	Precision Aggregates III, LLC	Precision Aggregates III, LLC	Sandusky	gravel—building	Sy-5-1
	Boone Coleman Construction, Inc.	Boone Coleman Construction, Inc.	Washington	sand—unspecified gravel—unspecified	So-BC
		Coleman Pit	Washington	sand—building gravel—building	So-B
	D.G.M., Inc.	Tow Path Ready Mix	Morgan	sand—building, portland cement concrete gravel—building, portland cement concrete	So-DGM
	E. E. Blair Construction Co.	Cab Pit	Porter	sand—building gravel—building	So-98
	Barrett Paving Materials, Inc.	Hardin Sand & Gravel	Washington	sand—portland cement concrete, asphaltic concrete, unspecified gravel—portland cement concrete, asphaltic concrete, unspecified	Shy-SC
Shelby	Barrett Paving Materials, Inc.	Jones Deposit	Washington	sand—unspecified gravel—unspecified	Shy-18
		Schmidt Deposit	Washington	sand—unspecified gravel—unspecified	Shy-11
		Schmidt Deposit	Washington	sand—unspecified	Shy-SC1
	Barrett Paving Materials, Inc. MID-Ohio	Miami River Quarry	Orange	road construction/resurfacing road construction/resurfacing	Shy-17
		Staley Pit	Clinton, Salem	sand—road construction/resurfacing gravel—road construction/resurfacing	Shy-SS
	American Sand & Gravel, Inc.	Plant #4	Jackson	sand—road construction/resurfacing gravel—building	Sk-243
Stark		Plant #6	Jackson	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Sk-RO
	Central-Allied Enterprises, Inc.	Canton Aggregate Div.	Plain	sand—unspecified gravel—unspecified	Sk-681
		Central Sand & Gravel Div.	Plain	sand—asphaltic concrete, road construction/resurfacing, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	Sk-CA1
		Massillon Washed Gravel Div.	Bethlehem	sand—asphaltic concrete, unspecified gravel—road construction/resurfacing, unspecified	Sk-607
		Massillon Washed Gravel Div.	Bethlehem	sand—unspecified gravel—unspecified	Sk-MW

Stark	Heiser Sand & Gravel Corp. Massillon Materials, Inc.	Heiser Sand & Gravel Corp. Massillon Materials, Inc.	Jackson Perry	sand—building gravel—building sand—asphaltic concrete, road construction/resurfacing gravel—asphaltic concrete, road construction/resurfacing	Sk-HS1 Sk-M
	National Aggregates, Inc.	MMI Warmington Plant	Perry	sand—road construction/resurfacing gravel—building, road construction/resurfacing	Sk-M1
	Oster Sand & Gravel, Inc.	National Aggregates, Inc.	Sandy	sand—building gravel—building	Sk-1017
	Scassa Asphalt, Inc.	Massillon Plant	Jackson, Perry	sand—building, portland cement concrete, asphaltic concrete, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Sk-165
Stark	Shelly Materials, Inc.	Scassa Asphalt, Inc.	Lawrence	sand—building gravel—building	Sk-S
	Tiger Sand & Gravel, LLC	Allied Corp.	Perry	sand—building gravel—building	Sk-CA
	Alden Excavating Bontrager Excavating Co.	Allied Corp., Inc. #1301	Perry	sand—asphaltic concrete gravel—asphaltic concrete, road construction/resurfacing	Sk-N
Summit	S & S Aggregate, Inc.	Tiger Sand & Gravel, LLC	Perry	sand—road construction/resurfacing gravel—road construction/resurfacing	Sk-T
	SAMCO, Inc.	Alden Excavating Gilbert	Northampton Green	sand—building sand—building gravel—building	St-55 St-B
Trumbull	J. E. Nicolozakes Co.	Twin Lakes - S & S Aggregate #9	Coventry	sand—asphaltic concrete, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	St-44
	JBM Ltd.	Springbrook	Mesopotamia	sand—building, portland cement concrete, asphaltic concrete, unspecified gravel—building	TL-12
Tuscarawas		Bank One	Goshen	sand—building, unspecified gravel—building, unspecified	Ts-N
		State Rte. 416 Sand & Gravel	Goshen	sand—building gravel—building	Ts-2018

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Tuscarawas	L & M Mineral Co.	Spring Industries	Goshen, Warwick	sand—unspecified	Ts-SI
	Newton Asphalt Paving, Inc.	516	Dover	sand—asphaltic concrete gravel—asphaltic concrete	Ts-2001
	Oster Sand & Gravel, Inc.	Oster Sand & Gravel, Inc. - Bolivar	Sandy	sand—building, portland cement concrete, asphaltic concrete, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Ts-2036
	Sidco Development, Inc.	Midvale Sand & Gravel	Goshen	sand—portland cement concrete, asphaltic concrete gravel—portland cement concrete, asphaltic concrete	Ts-S2
	Soehnlén Bros. Sand & Gravel, Inc.	Soehnlén Bros. Sand & Gravel, Inc.	Wayne	sand—portland cement concrete, industrial sand gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Ts-1826
Warren	Stocker Sand & Gravel Co.	Stocker Sand & Gravel Co. - Gnaden	Clay	sand—building, road construction/resurfacing gravel—building, road construction/resurfacing	Ts-69
		Stocker Sand & Gravel Co.- Island	Clay	sand—building, asphaltic concrete gravel—building, road construction/resurfacing	Ts-125
	Carl E. Oeder and Sons	Carl E. Oeder and Sons Sand & Gravel	Turtle Creek	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, 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	sand—building, road construction/resurfacing, unspecified gravel—building, road construction/resurfacing, unspecified	Wan-MV

Warren	Moraine Materials Co., Inc.	Carlisle Plant #27	Franklin	sand—unspecified gravel—unspecified	Wan-7
	Morrow Gravel Co.	Morrow Gravel Co.	Hamilton	sand—asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Wan-M
Washington	Atlas Towing Co.	Belpre Bank Run	Belpre	sand—building gravel—building	Wn-54
	Briggs Sand & Gravel, Inc.	Briggs Sand & Gravel, Inc.	Warren	sand—building gravel—road construction/resurfacing	Wn-508
	Grimes Excavating	Grimes Sand and Gravel	Grandview	sand—building gravel—building	Wn-1008
	Muskingum River Gravel Co. S & R Aggregate	Plant #2 Story	Grandview Waterford	gravel—unspecified sand—bank run gravel—bank run	Wn-38 Wn-SR
	Sharon Stone Co.	Belpre Sand & Gravel	Belpre	sand—portland cement concrete, asphaltic concrete gravel—portland cement concrete, asphaltic concrete	Wn-SS
	Shelly Materials, Inc.	Willow Island Plant #1341	Newport	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Wn-C
Wayne	Trout Sand & Gravel Co.	Trout Sand & Gravel Co.	Warren	sand—building gravel—building	Wn-510
	Olen Corp.	Wooster Plant #8	Franklin	sand—building, portland cement concrete, asphaltic concrete gravel—building, asphaltic concrete, road construction/resurfacing	We-11
	Rupp Construction, Inc.	Rupp Construction, Inc.	Baughman	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	We-7
	Zollinger Sand & Gravel Co.	Zollinger Sand & Gravel Co.	Chippewa	sand—building, portland cement concrete, unspecified gravel—filtration	We-15

2009 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY (cont.)

County	Name of operator	Name of mine or quarry	Township	Type and principal use	State mine number
Williams	St. Joe Sand & Gravel, LLC	Watson	Superior	sand—building gravel—building	Ws-S
	Thiel Construction Co.	Thiel Construction Co.	Superior	sand—building gravel—building	Ws-21
Wyandot	JALIP, Ltd.	JALIP, LTD	Pitt	sand—bedding	Wt-J
	Kirby's Sand & Gravel, Inc.	Kirby's Sand & Gravel, Inc.	Crane, Eden	sand—building, fill gravel—building, filtration	Wt-17
	National Lime & Stone Co.	Sammet	Antrim	sand—building, portland cement concrete, asphaltic concrete	Wt-N
	Precision Aggregates I, LLC	Precision Aggregate I, LLC	Eden	gravel—road construction/resurfacing	Wt-4
				sand—portland cement concrete gravel—building	

**2009 SANDSTONE/CONGLOMERATE
COMPANIES WITH SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Best Sand Corp.	2	559,244	559,234
Briar Hill Stone Co.	2	8,093	8,093
Capstone Rock Products, LLC	1	1,220	1,220
City Stone, LLC	2	118,063	118,063
IRG Operating, LLC, dba Cleveland Quarries	1	8,397	19,296
Johnson Stone Products, Inc.	1	3,840	3,840
Keeney Sand & Stone, Inc.	1	38,806	38,806
Kimble Clay & Limestone Co.	1	31,275	31,275
Mesenburg Bros., Inc.	1	5,088	5,088
Oglebay Norton Industrial Sands, Inc.	2	141,153	141,153
Oscar Brugmann Sand & Gravel, Inc.	1	20,619	20,619
R. W. Sidley, Inc.	1	141,100	170,000
Regeneration Materials	1	4,868	4,868
Riverside Sand & Gravel Co., Inc.	1	262	262
Romig Excavating	1	475	475
SAMCO, Inc.	1	105	105
Sidwell Materials, Inc.	1	2,363	2,363
Solomon's Mines, Inc.	1	7,318	7,318
Southern Ohio Sand, LLC	1	17,200	17,200
Waller Bros. Stone Co.	1	3,610	3,610
TOTAL: 20 companies	24	1,113,099	1,152,888

2009 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 mine or 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
Carroll	Romig Excavating	Romig	Monroe	Pennsylvanian	crushed or broken stone—riprap	Ca-R
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 #32	Monroe	Massillon (Pennsylvanian)	dimension stone—rough construction	Cn-686
	Briar Hill Stone Co.	Quarry #55	Monroe	Massillon (Pennsylvanian)	dimension stone—rough construction	Cn-815
Erie	IRG Operating, LLC, dba Cleveland Quarries	Birmingham Quarry	Florence	Berea (Devonian)	dimension stone—rough construction, rubble, finished stone, flag	Ee-21
Geauga	Best Sand Corp.	Best Sand Corp.	Munson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand, glass sand, construction, industrial, other	Gea-3
	R. W. Sidley, Inc.	Thompson Pit	Thompson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand, refractory, aggregate, polish grinding, construction	Gea-1
Huron	Mesenburg Bros., Inc.	Mesenburg Bros., Inc.	Townsend	Berea (Devonian)	dimension stone—rough construction	Hrn-8
Knox	Capstone Rock Products, LLC	Fletcher	Butler	Massillon (Pennsylvanian)	dimension stone—rough construction	Kx-C
	Oglebay Norton Industrial Sands, Inc.	Millwood Plant	Butler, Union	Black Hand (Mississippian)	crushed or broken stone—industrial	Kx-1
Lake	Keeney Sand & Stone, Inc.	Keeney Sand & Stone, Inc.	Leroy	Berea (Devonian)	crushed or broken stone—aggregate, construction	Lke-K
Lorain	Johnson Stone Products, Inc.	Kipton Quarry	Camden	Berea (Devonian)	dimension stone—rough construction, rubble, architecture, finished stone, other	Ln-J
Mahoning	City Stone, LLC	City Stone, LLC	Milton	Sharon sandstone (Pennsylvanian)	crushed or broken stone—construction	Mg-62
Perry	Oglebay Norton Industrial Sands, Inc.	Glass Rock Plant	Hopewell	Massillon (Pennsylvanian)	crushed or broken stone—silica flour, industrial	Py-344

Pike	Best Sand Corp.	Best Sand Corp.	Jackson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand, construction, industrial, other	Pke-31
	Southern Ohio Sand, LLC	Southern Ohio Sand, LLC	Jackson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—metallurgical pebble, construction, industrial	Pke-S
Portage	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	Pennsylvanian	crushed or broken stone—construction	Pe-9
Scioto	Waller Bros. Stone Co.	New Inskeep Quarry	Rush	Buena Vista (Mississippian)	dimension stone—rough construction	So-W
Summit	Riverside Sand & Gravel Co., Inc.	Riverside Sand & Gravel Co., Inc.	Stow, Tallmadge		dimension stone—other	St-24
Trumbull	City Stone, LLC	City Stone, LLC	Brookfield	Sharon sandstone (Pennsylvanian)	crushed or broken stone—construction	TL-CA
	SAMCO, Inc.	Springbrook	Mesopotamia		crushed or broken stone—riprap, construction	TL-12
Tuscarawas	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Pennsylvanian	crushed or broken stone—aggregate, construction	Ts-1818
	Regeneration Materials	Dundee Mine	Wayne	Massillon (Pennsylvanian)	crushed or broken stone—foundry sand, other	Ts-1660

**2009 CLAY COMPANIES WITH
SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Bear Creek Clay Co.	1	22,500	22,500
Belden Brick Co.	4	150,476	150,476
Bowerston Shale Co.	1	7,280	7,280
Boyas Excavating, Inc.	1	318	318
Brookside Materials, LLC	1	6,500	6,500
Buckeye-Industrial Mining Co.	2	34,628	34,628
Cedar Heights Clay Co.	1	6,793	6,793
East Fairfield Coal Co.	1	2,083	2,083
Envirosafe Services of Ohio, Inc.	1	47,440	0
Joe Simak & Sons Trucking, Inc.	1	497	497
Joseph N. Sypniewski	1	627	627
Kimble Clay & Limestone Co.	1	21,026	21,026
L & M Mineral Co.	1	7,115	7,115
Loxley Aggregates, Inc.	1	650	650
Nuway Services	1	7,056	7,056
Patrick Excavating, Inc.	1	60	60
SAMCO, Inc.	1	556	556
Sandkuhl Clay Works, Inc.	1	2,835	2,835
Soltis Sand & Gravel	1	18	18
State Line Resources, Inc.	1	41,061	41,061
Thompson Bros. Mining Co.	1	755	755
Valley Clay Mining Co.	1	8,261	8,261
Waterloo Coal Co., Inc.	1	9,929	9,929
TOTAL: 23 companies	27	378,464	331,024

2009 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	Type and principal use	State mine number
Ashtabula	Joe Simak & Sons Trucking, Inc.	North Ridge Pit	Kingsville	Pleistocene glacial clay	common clay products	Asa-18
	Joseph N. Sypniewski	Sypniewski	Trumbull		construction	Asa-SY
	Sandkuhl Clay Works, Inc.	Sandkuhl Clay Works, Inc.	Salem		common clay products	Ae-7
Auglaize	Buckeye-Industrial Mining Co.	Peters Run	Madison	Lower Kittanning (Pennsylvanian)	common clay products	Ca-BIM
	State Line Resources, Inc.	State Line Resources, Inc.	Middleton		common clay products, unspecified	Ca-505
Cuyahoga	Boyas Excavating, Inc.	Boyas Excavating, Inc.	Independence	Bedford (Mississippian)	construction	Cya-42
Geauga	Soltis Sand & Gravel	Soltis Sand & Gravel	Parkman	Lower Kittanning (Pennsylvanian)	construction	Gea-9
Jackson	Cedar Heights Clay Co.	Harrison	Madison		refractories	Jkn-CH2
	Waterloo Coal Co., Inc.	Waterloo Coal Stone Plant	Madison		unspecified	Jkn-367
Licking	Brookside Materials, LLC	Brookside Materials, LLC	St. Albans	Pleistocene glacial clay	ball diamond	Lg-B
	Nuway Services	Hopewell	McKean		landfill	Lg-NU
Lucas	Envirosafe Services of Ohio, Inc.	Johlin Property Clay Mine	Oregon	Pleistocene glacial clay	landfill	LS-E
Mahoning	East Fairfield Coal Co.	Garfield Road	Springfield	Pennsylvanian	unspecified	Mg-EF
Muskingum	Thompson Bros. Mining Co.	Rapp Mine	Beaver	Allegheny Group (Pennsylvanian)	common clay products	Mg-588
	Bowerston Shale Co.	Frazeysburg	Jackson	Flint Ridge & Middle Mercer (Pennsylvanian)	common clay products	Mum-776
Perry	Valley Clay Mining Co.	Spring Pit	Newton	Tionesta (Pennsylvanian)	common clay products	Mum-904
	Bearcreek Clay Co.	Nelson/Common Mine	Clayton	Middle Kittanning (Pennsylvanian)	common clay products	Py-D1
Portage	Patrick Excavating, Inc.	Patrick	Charlestown	Tionesta (Pennsylvanian)	construction	Pe-P
Preble	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin		construction	Pre-9
Stark	Buckeye Industrial Mining Co.	Berlin Minerals	Pike		common clay products, landfill	Sk-BI3
Trumbull	SAMCO, Inc.	Springbrook	Mesopotamia	Tionesta (Pennsylvanian)	common clay products	TI-12
Tuscarawas	Belden Brick Co.	Belden Pit	Sugar Creek		common clay products, construction	Ts-1646

Tuscarawas	Belden Brick Co.	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 (Pennsylvanian)	common clay products	Ts-1841
	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Pennsylvanian	common clay products, landfill	Ts-1818
	L & M Mineral Co.	Spring	Mill, Warwick	Lower Kittanning (Pennsylvanian)	common clay products	Ts-1982

**2009 SHALE COMPANIES WITH
SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Bear Creek Clay Co.	1	23,200	23,200
Belden Brick Co.	3	186,643	186,948
Bowerston Shale Co.	2	38,796	38,796
DiGeronimo Aggregates, LLC	1	111,289	111,289
Glen-Gery Corp.	1	54,826	54,826
Kimble Clay & Limestone Co.	1	8,880	8,880
Knox County Board of Commissioners	1	3,828	3,828
L & M Mineral Co.	2	33,406	33,406
Lafarge Corp.	1	29,995	29,995
Luburgh Inc.	1	2,885	2,885
Olen Corp.	1	500	500
Summitville Tiles, Inc.	1	11,545	11,545
Thompson Mining Co.	1	300	300
Walhonding Sand & Gravel	1	1,887	1,887
TOTAL: 14 companies	18	507,980	508,285

2009 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 or quarry	Township	Geological unit	Type and principal use	State mine number
Columbiana	Summitville Tiles, Inc.	Summitcrest Inc.	Franklin	Conemaugh Group (Pennsylvanian)	common clay products	Ca-SU
Coshocton	Walhonding Sand & Gravel	Walhonding Valley Sand & Gravel	New Castle	Logan Formation (Mississippi)	lightweight aggregate	Cn-WL
Cuyahoga	DiGeronimo Aggregates, LLC	DiGeronimo Aggregates, LLC	Independence	Chagrin (Devonian)	lightweight aggregate	Cya-19
Harrison	Bowerston Shale Co.	Bowerston	Monroe	Conemaugh Group (Pennsylvanian)	common clay products	Hn-152
Knox	Knox County Board of Commissioners	Apple Valley	Brown	Logan 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 Stone	Hopewell	Pennsylvanian	landfill	Mum-907
	Luburgh Inc.	Cameron Brothers			construction	Mum-L2
Paulding	Lafarge Corp.	Paulding Quarry	Crane	Silica Shale (Devonian)	cement manufacture	Pg-1
Perry	Bear Creek Clay Co.	Nelson/Common Mine	Clayton	Middle Kittanning (Pennsylvanian)	common clay products	Py-D1
Stark	L & M Mineral Co.	Barr Farm	Bethlehem	Brookville (Pennsylvanian)	common clay products	Sk-LM
Tuscarawas	Belden Brick Co.	Belden Pit	Sugar Creek	Tionesta (Pennsylvanian)	common clay products	Ts-1646
	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Pennsylvanian	common clay products, landfill	Ts-1818
	Belden Brick Co.	Wallick Pit	Franklin, Wayne	Brookville & Lower Kittanning (Pennsylvanian)	construction	Ts-1841
	L & M Mineral Co.	Heil	Rush	Pennsylvanian	common clay products	Ts-1884
	Belden Brick Co.	Shanesville Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products, construction	Ts-1939
	Belden Brick Co.	Plotner Pit	Sugar Creek	Upper Mercer & Brookville (Pennsylvanian)	common clay products	Ts-B
Wayne	Olen Corp.	Wooster Plant #8	Franklin		landscaping	We-11

**2009 OHIO DIRECTORY OF SALT MINE AND SALT-BRINING PLANT OPERATORS
REPORTING SALES OR PRODUCTION, BY COUNTY**

County	Name of operator	Name of mine or quarry	Township	Geological unit and product	State mine number
Cuyahoga	Cargill Incorporated	Cargill Deicing Technology	City of Cleveland	Salina (Silurian)—rock salt	Cya-30
Lake	Morton International, Inc.	Fairport Mine	Painesville	Salina (Silurian)—rock salt	Lke-6
Licking	Royalty Enterprises, Inc. R. H. Penick Co., Ltd.	King #1 R. H. Penick Co.	Madison Newark	"Newburg" (Silurian)—natural brine "Newburg" (Silurian)—natural brine	Lg-4484 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

**2009 OHIO DIRECTORY OF PEAT MINE OPERATORS
REPORTING SALES OR PRODUCTION, BY COUNTY**

County	Name of operator	Name of mine or quarry	Township	Principal use	State mine number
Portage	Rockwell Sand & Gravel, Inc.	Suffield Aggregate, LLC	Suffield	mulch	Pe-R

MAP OF ACTIVE MINERAL INDUSTRY OPERATIONS IN OHIO 2009

By:
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GIS Database Administration by Joseph G. Wells
Cartography and GIS by Donovan M. Powers and Dean R. Martin

ABOUT THE MAP

This map is based on operators listed in the 2009 *Report on Ohio Mineral Industries* and is intended for general reference. Locations are approximate and are based on permitting information on file at the Ohio Department of Natural Resources (ODNR), Division of Mineral Resources Management. The letters and numbers opposite the symbols are the state mine numbers assigned to operations listed in the alphabetical directories of the ODNR 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. An interactive mineral industries map is also available on the ODNR Division of Geological Survey Web site. The interactive map is an improved tool for accessing company and production information and should be used if available. The *Report on Ohio Mineral Industries* and the interactive map are available by logging on to the ODNR Division of Geological Survey Web site at www.ohiogeology.com.

2009 OHIO ECONOMIC GEOLOGY IN BRIEF

Reports were filed in 2009 for 159 coal-mining operations, including 5 mines with their own coal-washing facilities. Coal production was reported from 88 of these 159 operations. Reports also were filed for 17 separate coal-washing plants and associated facilities. Of 527 industrial-mineral-mining operations known to be operating in 2009, 397 operations were active. A total of 24 mines reported production of multiple mineral commodities, including coal and/or one or more industrial minerals. There were 438 new wells completed for oil and gas in 2009, of which 398 were productive and 40 were dry.

The total tonnage of fuel and nonfuel minerals produced in Ohio during 2009, not including hydrocarbons, was 105,881,711 short tons or approximately 9.2 tons per capita. In 2009 the total value of coal was \$1,104,192,026; the value of oil and gas was \$665,439,649; and the total value of all industrial minerals was \$850,033,331 (table 1). The combined total value of fuel and nonfuel minerals produced in Ohio during 2009 was \$2,619,665,006 or approximately \$227 per capita. Reported and estimated total employment in the extractive industries of Ohio in 2009 was more than 10,000 people.

Includes 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.—2009 Mineral sales and production in Ohio

Commodity	Production ¹	Sales ²	Value ³	Change in Value from 2008 (percent)
Coal	27,324,521 tons	26,149,112 tons	\$1,104,192,026	+7.6
Limestone and dolomite	42,309,603 tons	44,433,734 tons	\$391,370,744	-10.5
Sand and gravel	28,190,712 tons	28,101,886 tons	\$183,252,778	-8.2
Salt	6,062,609 tons	6,957,663 tons	\$253,202,331	+7.1
Sandstone and conglomerate	1,152,888 tons	1,113,099 tons	\$31,085,335	-24.5
Clay	331,024 tons	378,464 tons	\$3,885,593	-42.8
Shale	508,285 tons	507,980 tons	\$7,122,866	-38.3
Peat	2,069 tons	2,069 tons	\$13,654	+23.5
Gas	88,824,419 MCF ⁴	5	\$387,166,839	-53.3
Oil	5,008,609 barrels	5	\$273,272,410	-46.6

¹The 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. Timely completion of this report requires that value production and sales information are not available, production figures may be gathered from the ODNR Division of Mineral Resources Management or be estimated or be excluded.

²Includes material for captive use.

³The FOB value of industrial minerals sold was estimated for mines that 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.

⁴Thousand cubic feet.

⁵Figure not available.

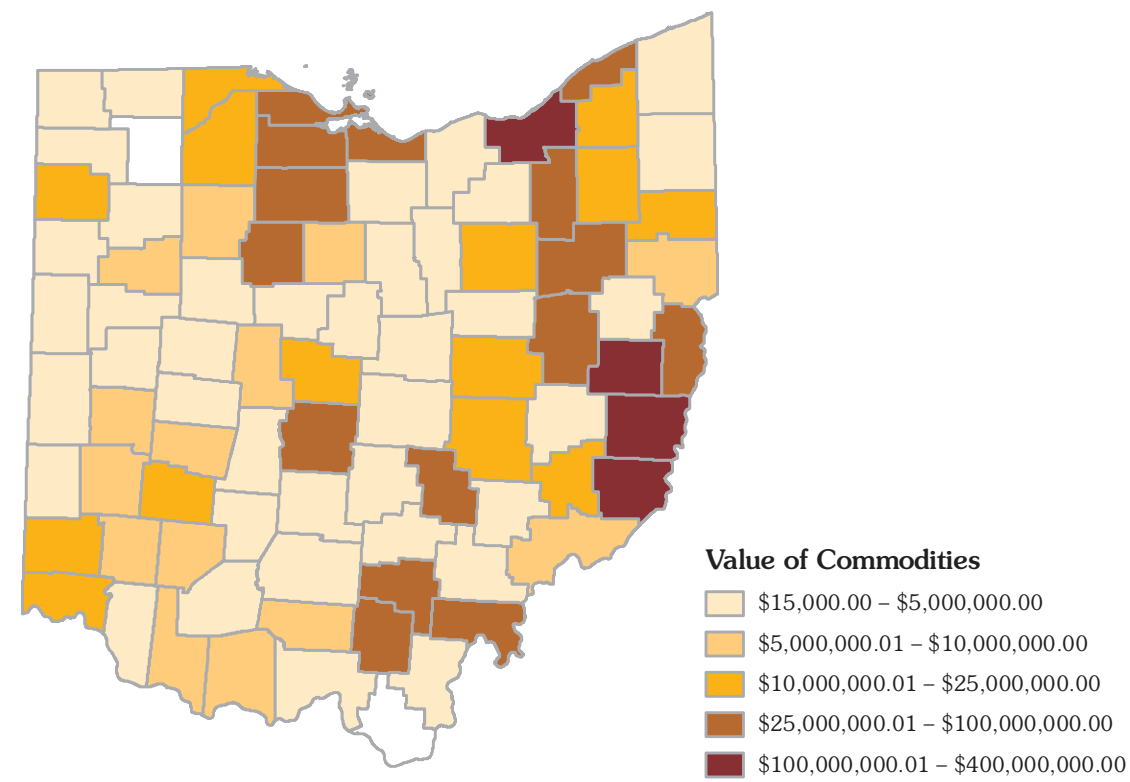


FIGURE 1.—Total value of produced coal and/or industrial minerals in 2009 by county.

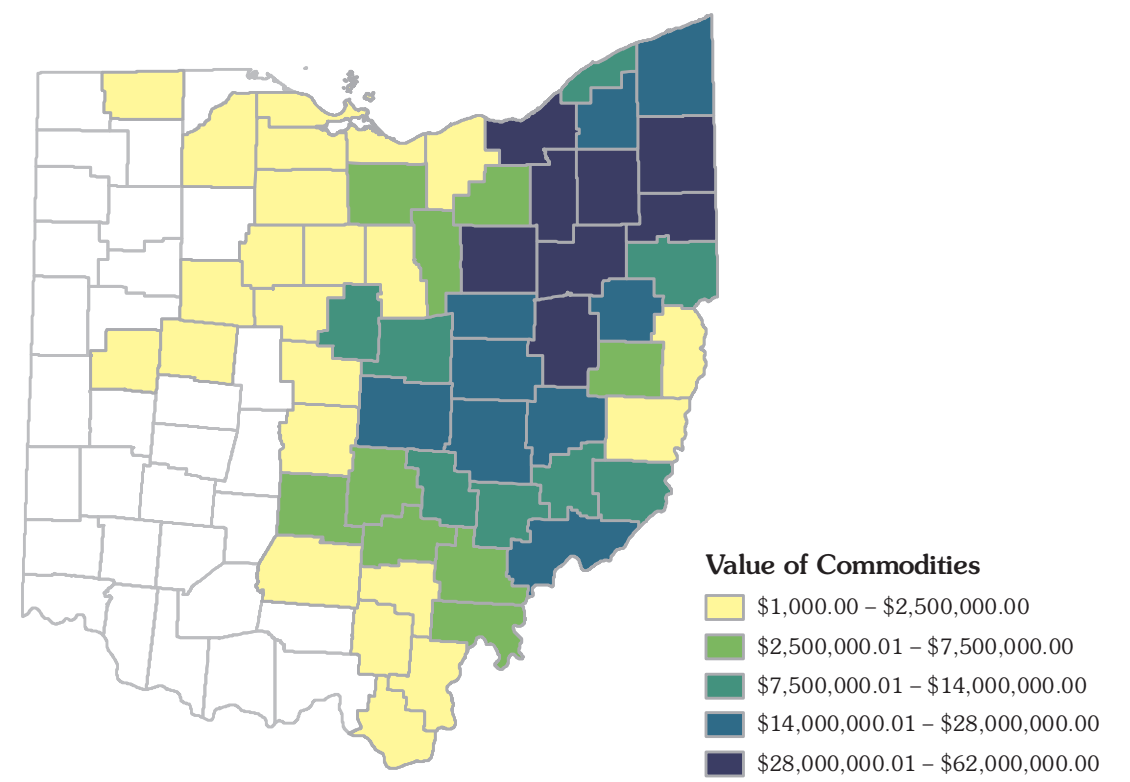


FIGURE 2.—Total value of all oil and gas produced in 2009 by county.

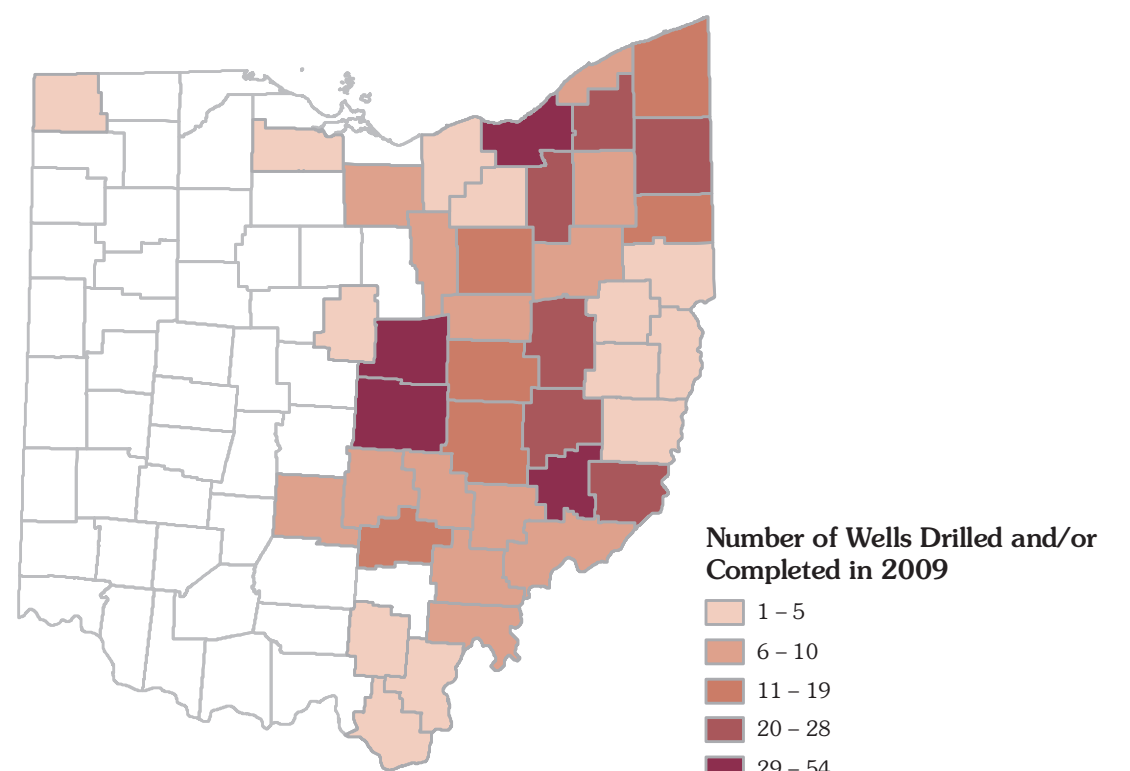


FIGURE 3.—Number of drilled oil and gas wells in 2009, by county. An estimated 558 wells were drilled in 40 of 88 Ohio counties.



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