



The Economic Contributions of U.S. Mining (2012)

September 2014

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National Mining Association



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EXECUTIVE SUMMARY

More than 14,000 operations mine for coal, metal ores and non-metallic minerals in the United States, according to the Mine Safety and Health Administration. These mines provide the energy resources and raw materials that are essential to a growing economy. The ability of the U.S. economy to compete internationally and the livelihood of many American workers depend on the availability and abundance of America's valuable mined resources and their contributions to the U.S. economy. The ability of the U.S. economy to compete internationally and the livelihood of many American workers depend on the availability and abundance of America's valuable mined resources and their contributions to the U.S. economy.

National Results

U.S. mining directly and indirectly generated just over 1.9 million full-time and part-time jobs in 2012, including employees and the self-employed.

- U.S. mines accounted for more than 634,000 jobs.
- Jobs in other industries attributable to or induced by U.S. mining totaled nearly 1.27 million.

U.S. labor income associated with U.S. mining exceeded \$118 billion in 2012, which includes wages and salaries, other employee benefits and proprietors' income.

Table E-1. Economic Contribution of U.S. Mining, 2012

Item	Direct	Indirect and Induced	Total
Employment	634,600	1,268,800	1,903,440
Labor Income (billions of dollars)	\$46.2	\$71.9	\$118.2
Contribution to GDP (billions of dollars)	\$102.1	\$123.0	\$225.1
Taxes Paid (billions of dollars)	\$18.9	\$26.9	\$45.8

Source: Calculations based on IMPLAN modeling system (2012 database)

State Results

Mining contributes to economic activity in every state. The ten states with the largest contribution of mining to GDP are Wyoming (20.0%), West Virginia (17.3%), Nevada (8.7%), Montana (6.1%), Arizona (5.8%), Kentucky (4.8%), Utah (4.2%), New Mexico (3.5%), Idaho (3.2%) and Alaska (3.1%). For additional definitions of mining by sector, see Appendix B.

Total Direct, Indirect and Induced Contributions of U.S. Mining by State, 2012

State	Employment		Labor Income		Contribution to GDP		Taxes Paid (\$ Millions)	
	Number	Percent of State Total	(\$ Millions)	Percent of State Total	(\$ Millions)	Percent of State Total	State & Local	Federal
Alabama	45,840	1.8%	2,681	2.3%	4,996	2.6%	\$325	\$614
Alaska	10,970	2.3%	658	2.2%	1,727	3.1%	\$141	\$182
Arizona	75,740	2.3%	4,654	2.8%	16,577	5.8%	\$1,102	\$1,631
Arkansas	15,710	1.0%	763	1.1%	1,178	1.0%	\$102	\$150
California	110,750	0.5%	7,493	0.6%	13,329	0.6%	\$1,026	\$1,664
Colorado	73,460	2.3%	4,677	2.6%	8,791	3.0%	\$564	\$1,070
Connecticut	10,170	0.5%	753	0.5%	1,251	0.5%	\$100	\$188
Delaware	1,990	0.4%	128	0.4%	272	0.4%	\$19	\$27
District of Columbia	2,900	0.4%	317	0.4%	457	0.4%	\$18	\$44
Florida	62,270	0.6%	3,073	0.6%	5,471	0.7%	\$518	\$924
Georgia	42,990	0.8%	2,552	0.9%	3,913	0.8%	\$288	\$486
Hawaii	4,310	0.5%	265	0.5%	429	0.5%	\$38	\$47
Idaho	17,890	2.0%	883	2.3%	2,055	3.2%	\$108	\$222
Illinois	66,820	0.9%	4,603	1.0%	8,258	1.1%	\$655	\$1,025
Indiana	46,140	1.3%	2,769	1.6%	4,967	1.6%	\$417	\$606
Iowa	15,950	0.8%	847	0.9%	1,265	0.8%	\$99	\$161
Kansas	14,010	0.8%	700	0.8%	1,318	0.9%	\$89	\$155
Kentucky	85,900	3.6%	5,053	4.6%	9,038	4.8%	\$913	\$1,207
Louisiana	20,730	0.8%	1,223	1.0%	2,589	1.0%	\$174	\$271
Maine	4,640	0.6%	202	0.6%	313	0.6%	\$32	\$40
Maryland	21,450	0.6%	1,434	0.7%	2,477	0.8%	\$215	\$300
Massachusetts	17,790	0.4%	1,336	0.5%	2,053	0.5%	\$156	\$285
Michigan	52,530	1.0%	3,017	1.1%	6,069	1.5%	\$430	\$718
Minnesota	70,040	2.0%	4,390	2.3%	8,002	2.5%	\$765	\$981
Mississippi	8,870	0.6%	436	0.7%	706	0.7%	\$59	\$86
Missouri	33,380	1.0%	2,007	1.2%	2,686	1.0%	\$279	\$356
Montana	22,750	3.6%	1,291	5.1%	2,593	6.1%	\$376	\$330
Nebraska	8,160	0.7%	469	0.8%	707	0.7%	\$48	\$86
Nevada	61,880	4.1%	4,279	5.6%	11,814	8.7%	\$635	\$1,275
New Hampshire	6,010	0.7%	335	0.8%	492	0.7%	\$33	\$71
New Jersey	21,300	0.4%	1,579	0.5%	2,504	0.5%	\$227	\$370
New Mexico	27,450	2.6%	1,592	3.2%	3,032	3.5%	\$303	\$342
New York	56,620	0.5%	4,251	0.5%	6,909	0.6%	\$696	\$914
North Carolina	31,860	0.6%	1,698	0.7%	3,014	0.6%	\$237	\$359
North Dakota	9,900	1.8%	683	2.3%	1,207	2.4%	\$157	\$163
Ohio	64,340	1.0%	3,832	1.2%	6,720	1.3%	\$550	\$805
Oklahoma	18,820	0.9%	994	0.9%	1,914	1.1%	\$109	\$218
Oregon	17,450	0.8%	968	0.9%	1,776	0.8%	\$118	\$207
Pennsylvania	122,710	1.7%	7,559	1.9%	12,462	2.0%	\$831	\$1,738
Rhode Island	2,700	0.5%	168	0.5%	276	0.5%	\$26	\$37
South Carolina	17,030	0.7%	860	0.8%	1,610	0.9%	\$111	\$188
South Dakota	5,770	1.0%	300	1.1%	500	1.2%	\$34	\$62
Tennessee	29,860	0.8%	1,711	0.9%	2,449	0.8%	\$195	\$323
Texas	120,550	0.8%	7,486	0.9%	13,940	1.0%	\$828	\$1,631
Utah	47,200	2.8%	2,647	3.4%	5,574	4.2%	\$424	\$641
Vermont	4,590	1.1%	217	1.2%	307	1.1%	\$27	\$42
Virginia	64,390	1.4%	4,669	1.6%	8,185	1.8%	\$606	\$1,067
Washington	30,370	0.8%	1,854	0.8%	3,747	1.0%	\$222	\$461
West Virginia	95,630	10.5%	6,395	15.2%	11,799	17.3%	\$1,544	\$1,542
Wisconsin	31,680	0.9%	1,760	1.0%	3,378	1.2%	\$225	\$395
Wyoming	51,180	13.1%	3,653	18.6%	8,052	20.0%	\$765	\$1,109
Total Operations	1,903,440	1.1%	118,161	1.2%	\$225,145	1.4%	\$17,958	\$27,815

Contribution by Mining Segment

The direct contributions or value added by each of the three mining sectors identified in this report include the operations of the mine, support activities and transportation of output from the mine.

The coal sector of U.S. mining accounted for 708,140 jobs, \$47.1 billion in labor income and \$83.2 billion in contribution to GDP (see Table 3). Annual wages and salaries in coal mining operations (excluding support activities and transportation) averaged approximately \$80,450 in 2012.¹ Overall, the total jobs attributed to coal mining were responsible for approximately 37 percent of U.S. mining's total employment contribution, 40 percent of total labor income and 37 percent of mining's total contribution to GDP.²

The metal ore mining segment of U.S. mining accounted for 348,450 jobs, \$22.9 billion in labor compensation and \$56.3 billion of GDP. Annual wages and salaries in the metal ore mining sector averaged \$85,495. Metal ore mining accounted for 18 percent of total mining employment, 19 percent of labor income and 25 percent of mining's contribution to GDP.

The non-metallic mineral mining segment of U.S. mining accounted for 846,850 jobs, \$48.2 billion in labor compensation and \$86 billion of U.S. GDP. Annual wages and salaries in the non-metallic mining sector averaged \$55,220. Non-metallic mineral mining represented 44 percent of mining employment, 41 percent of labor income and 38 percent of its contribution to GDP.³

Table 3. Economic Contribution of U.S. Mining Operations by Segment

Sector	Coal Mining	Metal Ore Mining	Non-metallic Mineral Mining	Total
Employment				
Direct	195,490	105,260	333,890	634,640
Indirect & Induced	512,650	243,190	512,960	1,268,800
Total	708,140	348,450	846,850	1,903,440
Labor Income (\$billions)				
Direct	\$17.6	\$8.8	\$19.8	\$46.2
Indirect & Induced	\$29.5	\$14.1	\$28.4	\$71.9
Total	\$47.1	\$22.9	\$48.2	\$118.2
Contribution to GDP (\$billions)				
Direct	\$33.1	\$31.8	\$37.2	\$102.1
Indirect & Induced	\$50.0	\$24.5	\$48.5	\$123.0
Total	\$83.2	\$56.3	\$85.7	\$225.1

Tax Payments of U.S. Mining

Economic activity attributable to U.S. mining is taxed at the federal, state and local levels. These taxes take a variety of forms, including income taxes on company profits and employee wages, property taxes on equipment and structures and excise taxes on output. Table 4 provides detail on the type of taxes collected in economic activity attributable to U.S. mining.

- 1 Average wage and salary data from Bureau of Labor Statistics, Quarterly Census Employment and Wages, 2012. Labor income as presented in Table 3 results reflects total employee compensation (including benefits) and self-employment income for mining, support activities, and transportation attributable to mining output.
- 2 Data derived from IMPLAN model, which is based on data from the U.S. Bureau of Economic Analysis.
- 3 The transport of mining products, included in the figures above, represents a significant portion of these impacts. Transportation of mining output, for instance, is responsible for 240,490xxxx direct transportation jobs and also contributes to labor income and GDP. These amounts have been distributed to coal, metal ore, and non-metallic mineral mining in Table 3.

Mining activity generated \$28 billion in federal taxes and another \$18 billion in state and local taxes, for a total of \$46 billion in 2012.

Table 4. Tax Payments Attributable to U.S. Mining Economic Activity, 2012
(millions of dollars)

	Tax Category	Direct	Indirect and Induced	Total
Federal	Corporate Income Taxes	\$3,277	\$3,126	\$6,403
	Personal Taxes	\$3,243	\$5,148	\$8,392
	Indirect Business Taxes	\$700	\$1,039	\$1,739
	Social Insurance Contributions	\$4,396	\$6,885	\$11,281
	Federal Total	\$11,616	\$16,199	\$27,815
State & Local	Corporate Income Taxes	\$502	\$451	\$953
	Personal Taxes	\$1,175	\$1,876	\$3,051
	Indirect Business Taxes	\$5,514	\$8,229	\$13,743
	Social Insurance Contributions	\$82	\$129	\$211
	State & Local Total	\$7,274	\$10,684	\$17,958
Federal, State & Local Total		\$18,890	\$26,883	\$45,773

Methodology

The economic contributions of U.S. mining to the domestic economy include its direct impact plus the economic activity of other industries that supply the mining industry. To quantify these linkages, we rely on the IMPLAN model, an input-output (I-O) model based on federal government data.

- Direct contributions: effects directly attributable to mining, such as the employment and output of mining companies. These effects include the transportation of mine output from the mine to the purchaser.
- Indirect contribution: effects of upstream suppliers to mining, including contractors and other companies providing inputs to mining companies, e.g. equipment manufacturers. Indirect effects also include the activity of suppliers to these companies.
- Induced contribution: spending by mining and supplier employees. Employees throughout the supply chain receive income associated with the direct and indirect activities, a portion of which is consumed. This consumption causes additional economic activity attributable to U.S. mining.

We have made adjustments to the output of the IMPLAN model to provide a more complete and accurate description of the overall contribution of U.S. mining.

See Appendix A for a more detailed description of our methodology.

This analysis can be considered conservative in that it does not include the economic or employee benefits from coal and uranium-based generation of, or the manufacturing and other end-users of metal and non-metal minerals. According to the Edison Electric Institute, U.S. electricity generation directly employed approximately 500,000 people in 2012 and added \$363.7 billion to the U.S. economy; coal and uranium are responsible for 58.4 percent of total electricity generation. The U.S. Geological Survey estimates that mineral commodities were transformed into \$2.4 trillion worth of goods and services in 2012, an amount equal to 15 percent of the total U.S. GDP.

MINING AND THE U.S. ECONOMY BY STATE

Table 5. Mining and the U.S. Economy by State, 2012

State	Employment		Labor Income		Contribution to GDP		Taxes Paid (\$millions)	
	Number	Percent of State Total	(\$millions)	Percent of State Total	(\$millions)	Percent of State Total	State & Local	Federal
Alabama	45,840	1.8%	2,681	2.3%	4,996	2.6%	\$325	\$614
Alaska	10,970	2.3%	658	2.2%	1,727	3.1%	\$141	\$182
Arizona	75,740	2.3%	4,654	2.8%	16,577	5.8%	\$1,102	\$1,631
Arkansas	15,710	1.0%	763	1.1%	1,178	1.0%	\$102	\$150
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New Mexico	27,450	2.6%	1,592	3.2%	3,032	3.5%	\$303	\$342
New York	56,620	0.5%	4,251	0.5%	6,909	0.6%	\$696	\$914
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South Carolina	17,030	0.7%	860	0.8%	1,610	0.9%	\$111	\$188
South Dakota	5,770	1.0%	300	1.1%	500	1.2%	\$34	\$62
Tennessee	29,860	0.8%	1,711	0.9%	2,449	0.8%	\$195	\$323
Texas	120,550	0.8%	7,486	0.9%	13,940	1.0%	\$828	\$1,631
Utah	47,200	2.8%	2,647	3.4%	5,574	4.2%	\$424	\$641
Vermont	4,590	1.1%	217	1.2%	307	1.1%	\$27	\$42
Virginia	64,390	1.4%	4,669	1.6%	8,185	1.8%	\$606	\$1,067
Washington	30,370	0.8%	1,854	0.8%	3,747	1.0%	\$222	\$461
West Virginia	95,630	10.5%	6,395	15.2%	11,799	17.3%	\$1,544	\$1,542
Wisconsin	31,680	0.9%	1,760	1.0%	3,378	1.2%	\$225	\$395
Wyoming	51,180	13.1%	3,653	18.6%	8,052	20.0%	\$765	\$1,109
Total Operations	1,903,440	1.1%	118,161	1.2%	\$225,145	1.4%	\$17,958	\$27,815

Table 6. U.S. Mining Employment by State, 2012

State	Direct Effects				Indirect and Induced	Total Contribution
	Mine Workers	Support Activities	Transportation	Total Direct		
Alabama	11,980	180	5,780	17,940	27,900	45,840
Alaska	3,670	170	1,100	4,940	6,030	10,970
Arizona	20,120	530	5,010	25,660	50,080	75,740
Arkansas	3,820	20	2,640	6,480	9,230	15,710
California	11,280	140	11,400	22,820	87,930	110,750
Colorado	12,590	680	14,880	28,150	45,310	73,460
Connecticut	980	60	730	1,770	8,400	10,170
Delaware	110	0	50	160	1,830	1,990
District of Columbia	0	0	0	0	2,900	2,900
Florida	7,840	200	10,590	18,630	43,640	62,270
Georgia	8,290	190	3,940	12,420	30,570	42,990
Hawaii	470	0	300	770	3,540	4,310
Idaho	3,990	380	3,510	7,880	10,010	17,890
Illinois	10,360	580	7,160	18,100	48,720	66,820
Indiana	10,670	210	5,320	16,200	29,940	46,140
Iowa	3,960	40	1,380	5,380	10,570	15,950
Kansas	2,990	10	1,920	4,920	9,090	14,010
Kentucky	25,460	2,150	8,860	36,470	49,430	85,900
Louisiana	3,720	140	2,330	6,190	14,540	20,730
Maine	970	10	270	1,250	3,390	4,640
Maryland	3,310	420	1,450	5,180	16,270	21,450
Massachusetts	1,480	40	750	2,270	15,520	17,790
Michigan	5,950	180	9,580	15,710	36,820	52,530
Minnesota	10,470	650	12,460	23,580	46,460	70,040
Mississippi	1,520	0	740	2,260	6,610	8,870
Missouri	7,700	250	1,910	9,860	23,520	33,380
Montana	5,990	230	3,060	9,280	13,470	22,750
Nebraska	1,550	20	660	2,230	5,930	8,160
Nevada	18,180	2,370	7,620	28,170	33,710	61,880
New Hampshire	830	50	970	1,850	4,160	6,010
New Jersey	1,370	90	1,220	2,680	18,620	21,300
New Mexico	7,020	270	5,180	12,470	14,980	27,450
New York	4,850	50	6,940	11,840	44,780	56,620
North Carolina	5,920	40	2,030	7,990	23,870	31,860
North Dakota	2,640	210	1,360	4,210	5,690	9,900
Ohio	11,440	1,040	6,140	18,620	45,720	64,340
Oklahoma	3,620	110	2,580	6,310	12,510	18,820
Oregon	2,280	110	2,380	4,770	12,680	17,450
Pennsylvania	24,320	1,020	17,360	42,700	80,010	122,710
Rhode Island	260	10	160	430	2,270	2,700
South Carolina	2,550	10	2,110	4,670	12,360	17,030
South Dakota	1,520	40	670	2,230	3,540	5,770
Tennessee	6,590	280	1,820	8,690	21,170	29,860
Texas	21,990	500	12,030	34,520	86,030	120,550
Utah	11,290	1,010	4,760	17,060	30,140	47,200
Vermont	1,210	40	600	1,850	2,740	4,590
Virginia	12,900	660	7,900	21,460	42,930	64,390
Washington	6,720	230	2,820	9,770	20,600	30,370
West Virginia	37,560	1,500	9,110	48,170	47,460	95,630
Wisconsin	6,180	250	3,960	10,390	21,290	31,680
Wyoming	14,370	510	12,410	27,290	23,890	51,180
Total Operations	386,850	17,880	229,910	634,640	1,268,800	1,903,440

Table 7. U.S. Mining Labor Income by State, 2012 (millions of dollars)

State	Direct Contribution to Labor Income	Indirect and Induced	Total Contribution	Total Contribution as a % of State Total Labor Income
Alabama	1,386	1,295	2,681	2.3%
Alaska	349	309	658	2.2%
Arizona	1,993	2,662	4,654	2.8%
Arkansas	322	440	763	1.1%
California	1,301	6,192	7,493	0.6%
Colorado	2,113	2,564	4,677	2.6%
Connecticut	92	661	753	0.5%
Delaware	7	121	128	0.4%
District of Columbia	0	317	317	0.4%
Florida	729	2,345	3,073	0.6%
Georgia	874	1,678	2,552	0.9%
Hawaii	51	214	265	0.5%
Idaho	454	429	883	2.3%
Illinois	1,445	3,157	4,603	1.0%
Indiana	1,288	1,481	2,769	1.6%
Iowa	305	542	847	0.9%
Kansas	220	480	700	0.8%
Kentucky	2,804	2,249	5,053	4.6%
Louisiana	455	768	1,223	1.0%
Maine	34	168	202	0.6%
Maryland	350	1,084	1,434	0.7%
Massachusetts	141	1,195	1,336	0.5%
Michigan	1,038	1,979	3,017	1.1%
Minnesota	1,749	2,641	4,390	2.3%
Mississippi	126	310	436	0.7%
Missouri	747	1,260	2,007	1.2%
Montana	740	551	1,291	5.1%
Nebraska	144	324	469	0.8%
Nevada	2,549	1,730	4,279	5.6%
New Hampshire	93	241	335	0.8%
New Jersey	196	1,382	1,579	0.5%
New Mexico	902	690	1,592	3.2%
New York	646	3,605	4,251	0.5%
North Carolina	396	1,302	1,698	0.7%
North Dakota	391	292	683	2.3%
Ohio	1,400	2,433	3,832	1.2%
Oklahoma	339	655	994	0.9%
Oregon	297	671	968	0.9%
Pennsylvania	2,989	4,570	7,559	1.9%
Rhode Island	27	141	168	0.5%
South Carolina	269	591	860	0.8%
South Dakota	130	170	300	1.1%
Tennessee	539	1,172	1,711	0.9%
Texas	2,227	5,259	7,486	0.9%
Utah	1,240	1,407	2,647	3.4%
Vermont	88	129	217	1.2%
Virginia	2,113	2,556	4,669	1.6%
Washington	527	1,328	1,854	0.8%
West Virginia	4,359	2,036	6,395	15.2%
Wisconsin	649	1,111	1,760	1.0%
Wyoming	2,603	1,050	3,653	18.6%
Total Operations	46,227	71,934	118,161	1.2%

Table 8. U.S. Mining Contribution to GDP by State, 2012 (millions of dollars)

State	Direct Contribution to GDP	Indirect and Induced	Total Contribution	Total Contribution as a % of State GDP
Alabama	2,759	2,238	4,996	2.6%
Alaska	1,155	571	1,727	3.1%
Arizona	11,931	4,646	16,577	5.8%
Arkansas	396	781	1,178	1.0%
California	2,852	10,477	13,329	0.6%
Colorado	4,679	4,112	8,791	3.0%
Connecticut	123	1,128	1,251	0.5%
Delaware	21	251	272	0.4%
District of Columbia	10	446	457	0.4%
Florida	1,393	4,078	5,471	0.7%
Georgia	966	2,946	3,913	0.8%
Hawaii	60	369	429	0.5%
Idaho	1,326	730	2,055	3.2%
Illinois	2,965	5,293	8,258	1.1%
Indiana	2,324	2,643	4,967	1.6%
Iowa	306	959	1,265	0.8%
Kansas	508	810	1,318	0.9%
Kentucky	5,139	3,900	9,038	4.8%
Louisiana	1,047	1,542	2,589	1.0%
Maine	37	276	313	0.6%
Maryland	745	1,732	2,477	0.8%
Massachusetts	218	1,835	2,053	0.5%
Michigan	2,762	3,307	6,069	1.5%
Minnesota	3,330	4,672	8,002	2.5%
Mississippi	152	553	706	0.7%
Missouri	659	2,027	2,686	1.0%
Montana	1,640	953	2,593	6.1%
Nebraska	162	545	707	0.7%
Nevada	8,701	3,113	11,814	8.7%
New Hampshire	102	390	492	0.7%
New Jersey	216	2,288	2,504	0.5%
New Mexico	1,822	1,211	3,032	3.5%
New York	1,140	5,770	6,909	0.6%
North Carolina	489	2,525	3,014	0.6%
North Dakota	680	527	1,207	2.4%
Ohio	2,655	4,065	6,720	1.3%
Oklahoma	775	1,139	1,914	1.1%
Oregon	455	1,320	1,776	0.8%
Pennsylvania	5,208	7,254	12,462	2.0%
Rhode Island	42	234	276	0.5%
South Carolina	617	993	1,610	0.9%
South Dakota	208	292	500	1.2%
Tennessee	505	1,945	2,449	0.8%
Texas	4,581	9,359	13,940	1.0%
Utah	3,154	2,420	5,574	4.2%
Vermont	100	207	307	1.1%
Virginia	3,868	4,317	8,185	1.8%
Washington	1,403	2,344	3,747	1.0%
West Virginia	8,160	3,640	11,799	17.3%
Wisconsin	1,506	1,872	3,378	1.2%
Wyoming	6,088	1,964	8,052	20.0%
Total Operations	102,137	123,009	225,145	1.4%

Table 9. Contribution of U.S. Mining to Taxes by State, 2012 (millions of dollars)

State	Direct Tax Contribution	Indirect and Induced	Total Contribution	Total State and Local Taxes Only	Federal Only
Alabama	\$467	\$472	\$939	\$325	\$614
Alaska	\$175	\$148	\$323	\$141	\$182
Arizona	\$1,696	\$1,037	\$2,733	\$1,102	\$1,631
Arkansas	\$86	\$166	\$252	\$102	\$150
California	\$404	\$2,285	\$2,689	\$1,026	\$1,664
Colorado	\$792	\$842	\$1,633	\$564	\$1,070
Connecticut	\$24	\$264	\$288	\$100	\$188
Delaware	\$1	\$45	\$46	\$19	\$27
District of Columbia	\$1	\$61	\$62	\$18	\$44
Florida	\$355	\$1,087	\$1,442	\$518	\$924
Georgia	\$194	\$580	\$774	\$288	\$486
Hawaii	\$14	\$71	\$85	\$38	\$47
Idaho	\$180	\$150	\$330	\$108	\$222
Illinois	\$533	\$1,147	\$1,680	\$655	\$1,025
Indiana	\$477	\$546	\$1,023	\$417	\$606
Iowa	\$71	\$189	\$260	\$99	\$161
Kansas	\$74	\$170	\$243	\$89	\$155
Kentucky	\$1,219	\$900	\$2,120	\$913	\$1,207
Louisiana	\$178	\$267	\$445	\$174	\$271
Maine	\$8	\$64	\$71	\$32	\$40
Maryland	\$128	\$386	\$514	\$215	\$300
Massachusetts	\$38	\$403	\$441	\$156	\$285
Michigan	\$404	\$744	\$1,148	\$430	\$718
Minnesota	\$696	\$1,050	\$1,746	\$765	\$981
Mississippi	\$32	\$114	\$146	\$59	\$86
Missouri	\$218	\$417	\$635	\$279	\$356
Montana	\$462	\$245	\$707	\$376	\$330
Nebraska	\$31	\$103	\$134	\$48	\$86
Nevada	\$1,232	\$679	\$1,911	\$635	\$1,275
New Hampshire	\$21	\$83	\$104	\$33	\$71
New Jersey	\$46	\$551	\$597	\$227	\$370
New Mexico	\$383	\$262	\$645	\$303	\$342
New York	\$180	\$1,429	\$1,609	\$696	\$914
North Carolina	\$95	\$501	\$596	\$237	\$359
North Dakota	\$207	\$113	\$320	\$157	\$163
Ohio	\$492	\$863	\$1,355	\$550	\$805
Oklahoma	\$105	\$222	\$326	\$109	\$218
Oregon	\$79	\$247	\$325	\$118	\$207
Pennsylvania	\$947	\$1,623	\$2,570	\$831	\$1,738
Rhode Island	\$8	\$56	\$63	\$26	\$37
South Carolina	\$90	\$210	\$300	\$111	\$188
South Dakota	\$39	\$57	\$95	\$34	\$62
Tennessee	\$138	\$379	\$518	\$195	\$323
Texas	\$698	\$1,761	\$2,459	\$828	\$1,631
Utah	\$561	\$504	\$1,065	\$424	\$641
Vermont	\$21	\$48	\$68	\$27	\$42
Virginia	\$726	\$947	\$1,673	\$606	\$1,067
Washington	\$187	\$497	\$684	\$222	\$461
West Virginia	\$2,134	\$951	\$3,086	\$1,544	\$1,542
Wisconsin	\$222	\$398	\$620	\$225	\$395
Wyoming	\$1,323	\$552	\$1,875	\$765	\$1,109
Total Operations	\$18,890	\$26,883	\$45,773	\$17,958	\$27,815

U.S. COAL MINING BY STATE

Table 10. Coal Mining and the U.S. Economy by State, 2012

State	Employment		Labor Income		Contribution to GDP	
	Number	Percent of State Total	(\$millions)	Percent of State Total	(\$millions)	Percent of State Total
Alabama	27,240	1.23%	1,680	1.45%	\$2,919	1.55%
Alaska	1,080	0.25%	75	0.25%	147	0.26%
Arizona	7,640	0.26%	521	0.31%	1,065	0.37%
Arkansas	2,640	0.19%	139	0.20%	236	0.21%
California	29,550	0.17%	2,222	0.17%	3,733	0.18%
Colorado	21,160	0.74%	1,415	0.78%	2,564	0.87%
Connecticut	3,230	0.17%	266	0.17%	451	0.18%
Delaware	780	0.17%	53	0.17%	109	0.18%
District of Columbia	1,200	0.17%	144	0.17%	200	0.18%
Florida	15,310	0.18%	861	0.18%	1,506	0.19%
Georgia	8,060	0.18%	495	0.18%	867	0.19%
Hawaii	1,310	0.17%	83	0.17%	142	0.18%
Idaho	1,370	0.18%	73	0.19%	131	0.20%
Illinois	35,750	0.53%	2,568	0.58%	4,350	0.60%
Indiana	26,120	0.81%	1,670	0.95%	2,846	0.92%
Iowa	3,020	0.18%	175	0.18%	307	0.19%
Kansas	2,940	0.19%	173	0.19%	292	0.20%
Kentucky	69,850	3.67%	4,200	3.83%	7,310	3.88%
Louisiana	5,800	0.25%	356	0.28%	719	0.27%
Maine	1,160	0.17%	60	0.17%	97	0.18%
Maryland	9,490	0.32%	651	0.32%	1,059	0.33%
Massachusetts	6,120	0.17%	488	0.17%	743	0.18%
Michigan	7,720	0.18%	467	0.18%	754	0.18%
Minnesota	6,090	0.20%	404	0.21%	703	0.22%
Mississippi	3,380	0.25%	174	0.28%	291	0.27%
Missouri	7,420	0.25%	493	0.29%	731	0.27%
Montana	6,480	1.13%	348	1.36%	692	1.63%
Nebraska	1,810	0.39%	108	0.17%	178	0.18%
Nevada	2,260	0.18%	135	0.18%	248	0.18%
New Hampshire	1,200	0.17%	76	0.17%	123	0.18%
New Jersey	7,260	0.17%	562	0.17%	917	0.18%
New Mexico	6,960	0.80%	450	0.90%	897	1.04%
New York	16,450	0.17%	1,381	0.17%	2,188	0.18%
North Carolina	7,970	0.18%	465	0.18%	900	0.18%
North Dakota	5,260	1.34%	375	1.26%	729	1.47%
Ohio	29,210	0.50%	1,816	0.55%	3,074	0.58%
Oklahoma	4,390	0.24%	260	0.24%	469	0.26%
Oregon	3,230	0.17%	188	0.17%	404	0.18%
Pennsylvania	72,350	1.01%	4,703	1.19%	7,728	1.23%
Rhode Island	850	0.17%	55	0.17%	92	0.18%
South Carolina	3,730	0.18%	196	0.18%	327	0.18%
South Dakota	890	0.23%	50	0.19%	85	0.20%
Tennessee	8,130	0.28%	472	0.26%	741	0.26%
Texas	41,560	0.32%	2,855	0.34%	5,035	0.34%
Utah	14,570	1.13%	840	1.08%	1,529	1.14%
Vermont	660	0.17%	35	0.19%	56	0.20%
Virginia	39,820	0.96%	3,052	1.08%	5,090	1.11%
Washington	5,840	0.18%	414	0.18%	723	0.19%
West Virginia	89,110	11.27%	6,052	14.41%	11,099	16.27%
Wisconsin	5,470	0.19%	326	0.19%	547	0.20%
Wyoming	27,250	7.19%	2,023	10.29%	5,013	12.48%
Total Operations	708,140	0.46%	47,144	0.48%	83,156	0.51%

Table 10a. Coal Mining Employment by State, 2012

State	Direct Effects				Indirect and Induced	Total Contribution
	Mine Workers	Support Activities	Transportation	Total Direct		
Alabama	6,690	100	3,400	10,190	17,050	27,240
Alaska	150	10	50	210	870	1,080
Arizona	730	20	230	980	6,660	7,640
Arkansas	110	0	70	180	2,460	2,640
California	80	0	10	90	29,460	29,550
Colorado	3,910	210	1,950	6,070	15,090	21,160
Connecticut	10	0	0	10	3,220	3,230
Delaware	0	0	0	0	780	780
District of Columbia	0	0	0	0	1,200	1,200
Florida	290	10	0	300	15,010	15,310
Georgia	160	0	0	160	7,900	8,060
Hawaii	0	0	0	0	1,310	1,310
Idaho	50	0	0	50	1,320	1,370
Illinois	6,000	340	3,010	9,350	26,400	35,750
Indiana	6,280	120	2,500	8,900	17,220	26,120
Iowa	50	0	0	50	2,970	3,020
Kansas	80	0	40	120	2,820	2,940
Kentucky	22,100	1,870	6,200	30,170	39,680	69,850
Louisiana	490	20	310	820	4,980	5,800
Maine	0	0	0	0	1,160	1,160
Maryland	1,760	220	110	2,090	7,400	9,490
Massachusetts	10	0	0	10	6,110	6,120
Michigan	30	0	30	60	7,660	7,720
Minnesota	490	30	0	520	5,570	6,090
Mississippi	300	0	250	550	2,830	3,380
Missouri	470	20	250	740	6,680	7,420
Montana	1,440	60	700	2,200	4,280	6,480
Nebraska	0	0	0	0	1,810	1,810
Nevada	20	0	0	20	2,240	2,260
New Hampshire	0	0	0	0	1,200	1,200
New Jersey	10	0	0	10	7,250	7,260
New Mexico	1,630	60	780	2,470	4,490	6,960
New York	40	0	0	40	16,410	16,450
North Carolina	100	0	30	130	7,840	7,970
North Dakota	1,430	110	580	2,120	3,140	5,260
Ohio	5,380	480	1,740	7,600	21,610	29,210
Oklahoma	340	10	180	530	3,860	4,390
Oregon	0	0	0	0	3,230	3,230
Pennsylvania	14,250	600	8,660	23,510	48,840	72,350
Rhode Island	0	0	0	0	850	850
South Carolina	50	0	0	50	3,680	3,730
South Dakota	30	0	0	30	860	890
Tennessee	1,120	50	120	1,290	6,840	8,130
Texas	4,590	110	2,570	7,270	34,290	41,560
Utah	2,900	260	1,230	4,390	10,180	14,570
Vermont	20	0	0	20	640	660
Virginia	8,550	440	4,090	13,080	26,740	39,820
Washington	80	0	30	110	5,730	5,840
West Virginia	36,090	1,440	7,690	45,220	43,890	89,110
Wisconsin	160	10	0	170	5,300	5,470
Wyoming	9,180	330	4,100	13,610	13,640	27,250
Total Operations	137,650	6,930	50,910	195,490	512,650	708,140

Table 10b. Coal Mining Labor Income by State, 2012 (millions of dollars)

State	Direct Contribution to Labor Income	Indirect and Induced	Total Contribution	Total Contribution as a % of State Total Labor Income
Alabama	895	785	1,680	1.45%
Alaska	14	61	75	0.25%
Arizona	138	383	521	0.31%
Arkansas	12	127	139	0.20%
California	6	2,216	2,222	0.17%
Colorado	523	893	1,415	0.78%
Connecticut	1	264	266	0.17%
Delaware	0	53	53	0.17%
District of Columbia	0	144	144	0.17%
Florida	15	846	861	0.18%
Georgia	15	480	495	0.18%
Hawaii	0	83	83	0.17%
Idaho	5	68	73	0.19%
Illinois	845	1,723	2,568	0.58%
Indiana	825	846	1,670	0.95%
Iowa	5	170	175	0.18%
Kansas	11	162	173	0.19%
Kentucky	2,411	1,789	4,200	3.83%
Louisiana	77	279	356	0.28%
Maine	0	60	60	0.17%
Maryland	149	502	651	0.32%
Massachusetts	0	488	488	0.17%
Michigan	6	461	467	0.18%
Minnesota	52	352	404	0.21%
Mississippi	39	136	174	0.28%
Missouri	119	373	493	0.29%
Montana	170	178	348	1.36%
Nebraska	0	108	108	0.17%
Nevada	2	133	135	0.18%
New Hampshire	0	76	76	0.17%
New Jersey	1	561	562	0.17%
New Mexico	238	212	450	0.90%
New York	3	1,378	1,381	0.17%
North Carolina	8	457	465	0.18%
North Dakota	214	161	375	1.26%
Ohio	652	1,163	1,816	0.55%
Oklahoma	44	216	260	0.24%
Oregon	0	188	188	0.17%
Pennsylvania	1,911	2,792	4,703	1.19%
Rhode Island	0	55	55	0.17%
South Carolina	3	193	196	0.18%
South Dakota	3	47	50	0.19%
Tennessee	76	396	472	0.26%
Texas	691	2,164	2,855	0.34%
Utah	360	480	840	1.08%
Vermont	1	33	35	0.19%
Virginia	1,482	1,570	3,052	1.08%
Washington	9	405	414	0.18%
West Virginia	4,184	1,868	6,052	14.41%
Wisconsin	15	310	326	0.19%
Wyoming	1,413	611	2,023	10.29%
Total Operations	17,641	29,503	47,144	0.48%

Table 10c. Coal Mining Contribution to GDP by State, 2012 (millions of dollars)

State	Direct Contribution to GDP	Indirect and Induced	Total Contribution	Total Contribution as a % of State GDP
Alabama	1,571	1,348	2,919	1.55%
Alaska	30	116	147	0.26%
Arizona	387	677	1,065	0.37%
Arkansas	18	218	236	0.21%
California	11	3,722	3,733	0.18%
Colorado	1,142	1,421	2,564	0.87%
Connecticut	3	448	451	0.18%
Delaware	1	109	109	0.18%
District of Columbia	0	200	200	0.18%
Florida	43	1,463	1,506	0.19%
Georgia	26	841	867	0.19%
Hawaii	0	142	142	0.18%
Idaho	14	118	131	0.20%
Illinois	1,495	2,855	4,350	0.60%
Indiana	1,356	1,490	2,846	0.92%
Iowa	9	298	307	0.19%
Kansas	24	268	292	0.20%
Kentucky	4,220	3,090	7,310	3.88%
Louisiana	156	563	719	0.27%
Maine	0	97	97	0.18%
Maryland	265	795	1,059	0.33%
Massachusetts	1	742	743	0.18%
Michigan	8	746	754	0.18%
Minnesota	94	609	703	0.22%
Mississippi	53	238	291	0.27%
Missouri	135	595	731	0.27%
Montana	387	305	692	1.63%
Nebraska	0	178	178	0.18%
Nevada	3	245	248	0.18%
New Hampshire	0	123	123	0.18%
New Jersey	2	916	917	0.18%
New Mexico	523	374	897	1.04%
New York	7	2,181	2,188	0.18%
North Carolina	10	890	900	0.18%
North Dakota	438	291	729	1.47%
Ohio	1,147	1,927	3,074	0.58%
Oklahoma	95	373	469	0.26%
Oregon	1	403	404	0.18%
Pennsylvania	3,279	4,449	7,728	1.23%
Rhode Island	0	92	92	0.18%
South Carolina	4	324	327	0.18%
South Dakota	8	77	85	0.20%
Tennessee	88	653	741	0.26%
Texas	1,235	3,799	5,035	0.34%
Utah	704	824	1,529	1.14%
Vermont	3	53	56	0.20%
Virginia	2,458	2,632	5,090	1.11%
Washington	19	704	723	0.19%
West Virginia	7,747	3,352	11,099	16.27%
Wisconsin	30	518	547	0.20%
Wyoming	3,872	1,141	5,013	12.48%
Total Operations	33,122	50,034	83,156	0.51%

U.S. METAL MINING BY STATE

Table 11. Metal Mining and the U.S. Economy by State, 2012

State	Employment		Labor Income		Contribution to GDP	
	Number	Percent of State Total	(\$millions)	Percent of State Total	(\$millions)	Percent of State Total
Alabama	1,670	0.07%	\$92	0.08%	\$168	0.09%
Alaska	6,730	1.39%	453	1.51%	1,318	2.33%
Arizona	50,100	1.54%	3,127	1.88%	13,053	4.55%
Arkansas	2,190	0.14%	127	0.19%	198	0.17%
California	15,510	0.08%	1,127	0.09%	2,053	0.10%
Colorado	20,550	0.64%	1,450	0.80%	3,120	1.05%
Connecticut	1,240	0.06%	103	0.07%	180	0.07%
Delaware	390	0.07%	26	0.08%	57	0.09%
District of Columbia	460	0.06%	56	0.07%	81	0.07%
Florida	7,230	0.07%	399	0.08%	719	0.09%
Georgia	2,990	0.06%	185	0.07%	332	0.07%
Hawaii	510	0.06%	33	0.07%	57	0.07%
Idaho	5,130	0.58%	290	0.76%	912	1.42%
Illinois	4,260	0.06%	309	0.07%	537	0.07%
Indiana	2,040	0.06%	119	0.07%	220	0.07%
Iowa	1,160	0.06%	66	0.07%	119	0.07%
Kansas	1,030	0.06%	61	0.07%	103	0.07%
Kentucky	1,340	0.06%	74	0.07%	135	0.07%
Louisiana	3,870	0.15%	279	0.22%	747	0.29%
Maine	450	0.06%	24	0.07%	39	0.07%
Maryland	1,910	0.06%	139	0.07%	227	0.07%
Massachusetts	2,370	0.06%	191	0.07%	298	0.07%
Michigan	25,700	0.49%	1,500	0.57%	3,525	0.85%
Minnesota	49,630	1.42%	3,107	1.64%	5,970	1.88%
Mississippi	840	0.06%	43	0.07%	77	0.07%
Missouri	5,600	0.16%	391	0.23%	489	0.18%
Montana	9,010	1.42%	570	2.23%	1,274	3.00%
Nebraska	700	0.06%	42	0.07%	72	0.07%
Nevada	45,950	3.03%	3,370	4.42%	10,032	7.35%
New Hampshire	470	0.06%	30	0.07%	50	0.07%
New Jersey	2,810	0.06%	219	0.07%	368	0.07%
New Mexico	5,740	0.54%	345	0.69%	828	0.96%
New York	6,610	0.06%	569	0.07%	943	0.08%
North Carolina	3,150	0.06%	185	0.07%	365	0.07%
North Dakota	320	0.06%	20	0.07%	36	0.07%
Ohio	3,700	0.06%	225	0.07%	378	0.07%
Oklahoma	1,230	0.06%	72	0.07%	128	0.07%
Oregon	1,640	0.07%	97	0.09%	202	0.09%
Pennsylvania	4,380	0.06%	285	0.07%	473	0.08%
Rhode Island	330	0.06%	22	0.07%	37	0.07%
South Carolina	2,480	0.10%	140	0.13%	261	0.15%
South Dakota	800	0.14%	48	0.18%	86	0.20%
Tennessee	5,450	0.15%	314	0.17%	404	0.14%
Texas	12,410	0.08%	846	0.10%	1,655	0.11%
Utah	14,630	0.87%	887	1.14%	2,371	1.77%
Vermont	240	0.06%	13	0.07%	20	0.07%
Virginia	3,470	0.07%	266	0.09%	478	0.10%
Washington	4,570	0.12%	324	0.14%	745	0.19%
West Virginia	1,280	0.14%	68	0.16%	120	0.18%
Wisconsin	1,960	0.06%	115	0.07%	198	0.07%
Wyoming	220	0.06%	13	0.07%	29	0.07%
Total Operations	348,450	0.20%	22,856	0.23%	56,284	0.35%

Table 11a. Metal Mining Employment by State, 2012

State	Direct Effects				Indirect and Induced	Total Contribution
	Mine Workers	Support Activities	Transportation	Total Direct		
Alabama	70	0	60	130	1,540	1,670
Alaska	2,830	130	840	3,800	2,930	6,730
Arizona	15,120	400	2,170	17,690	32,410	50,100
Arkansas	730	0	10	740	1,450	2,190
California	1,280	20	720	2,020	13,490	15,510
Colorado	3,700	200	4,360	8,260	12,290	20,550
Connecticut	0	0	0	0	1,240	1,240
Delaware	50	0	0	50	340	390
District of Columbia	0	0	0	0	460	460
Florida	180	0	540	720	6,510	7,230
Georgia	0	0	0	0	2,990	2,990
Hawaii	0	0	0	0	510	510
Idaho	1,660	160	510	2,330	2,800	5,130
Illinois	30	0	10	40	4,220	4,260
Indiana	0	0	0	0	2,040	2,040
Iowa	20	0	0	20	1,140	1,160
Kansas	0	0	0	0	1,030	1,030
Kentucky	0	0	0	0	1,340	1,340
Louisiana	1,050	40	60	1,150	2,720	3,870
Maine	0	0	0	0	450	450
Maryland	0	0	0	0	1,910	1,910
Massachusetts	0	0	0	0	2,370	2,370
Michigan	2,270	70	6,830	9,170	16,530	25,700
Minnesota	6,620	410	11,080	18,110	31,520	49,630
Mississippi	0	0	0	0	840	840
Missouri	960	30	70	1,060	4,540	5,600
Montana	2,870	110	810	3,790	5,220	9,010
Nebraska	0	0	0	0	700	700
Nevada	15,650	2,040	4,170	21,860	24,090	45,950
New Hampshire	0	0	0	0	470	470
New Jersey	0	0	0	0	2,810	2,810
New Mexico	2,130	80	330	2,540	3,200	5,740
New York	110	0	10	120	6,490	6,610
North Carolina	20	0	60	80	3,070	3,150
North Dakota	0	0	0	0	320	320
Ohio	0	0	0	0	3,700	3,700
Oklahoma	0	0	0	0	1,230	1,230
Oregon	160	10	20	190	1,450	1,640
Pennsylvania	10	0	140	150	4,230	4,380
Rhode Island	0	0	0	0	330	330
South Carolina	180	0	320	500	1,980	2,480
South Dakota	210	10	30	250	550	800
Tennessee	1,240	50	120	1,410	4,040	5,450
Texas	1,850	40	160	2,050	10,360	12,410
Utah	4,240	380	490	5,110	9,520	14,630
Vermont	0	0	0	0	240	240
Virginia	220	10	110	340	3,130	3,470
Washington	960	30	160	1,150	3,420	4,570
West Virginia	30	0	400	430	850	1,280
Wisconsin	0	0	0	0	1,960	1,960
Wyoming	0	0	0	0	220	220
Total Operations	66,450	4,220	34,590	105,260	243,190	348,450

Table 11b. Metal Mining Labor Income by State, 2012 (millions of dollars)

State	Direct Contribution to Labor Income	Indirect and Induced	Total Contribution	Total Contribution as a % of State Total Labor Income
Alabama	7	85	92	0.08%
Alaska	282	171	453	1.51%
Arizona	1,413	1,714	3,127	1.88%
Arkansas	55	72	127	0.19%
California	135	992	1,127	0.09%
Colorado	771	679	1,450	0.80%
Connecticut	0	103	103	0.07%
Delaware	3	23	26	0.08%
District of Columbia	0	56	56	0.07%
Florida	37	362	399	0.08%
Georgia	0	185	185	0.07%
Hawaii	0	33	33	0.07%
Idaho	171	119	290	0.76%
Illinois	6	303	309	0.07%
Indiana	0	119	119	0.07%
Iowa	1	65	66	0.07%
Kansas	0	61	61	0.07%
Kentucky	0	74	74	0.07%
Louisiana	135	144	279	0.22%
Maine	0	24	24	0.07%
Maryland	0	139	139	0.07%
Massachusetts	0	191	191	0.07%
Michigan	644	856	1,500	0.57%
Minnesota	1,345	1,762	3,107	1.64%
Mississippi	0	43	43	0.07%
Missouri	137	254	391	0.23%
Montana	357	212	570	2.23%
Nebraska	0	42	42	0.07%
Nevada	2,147	1,223	3,370	4.42%
New Hampshire	0	30	30	0.07%
New Jersey	0	219	219	0.07%
New Mexico	190	155	345	0.69%
New York	21	548	569	0.07%
North Carolina	5	180	185	0.07%
North Dakota	0	20	20	0.07%
Ohio	0	225	225	0.07%
Oklahoma	0	72	72	0.07%
Oregon	14	83	97	0.09%
Pennsylvania	9	276	285	0.07%
Rhode Island	0	22	22	0.07%
South Carolina	44	97	140	0.13%
South Dakota	21	27	48	0.18%
Tennessee	83	231	314	0.17%
Texas	161	685	846	0.10%
Utah	433	453	887	1.14%
Vermont	0	13	13	0.07%
Virginia	52	214	266	0.09%
Washington	97	227	324	0.14%
West Virginia	26	42	68	0.16%
Wisconsin	0	115	115	0.07%
Wyoming	0	13	13	0.07%
Total Operations	8,803	14,053	22,856	0.23%

Table 11c. Metal Mining Contribution to GDP by State, 2012 (millions of dollars)

State	Direct Contribution to GDP	Indirect and Induced	Total Contribution	Total Contribution as a % of State GDP
Alabama	20	148	168	0.09%
Alaska	1,005	313	1,318	2.33%
Arizona	10,094	2,959	13,053	4.55%
Arkansas	66	132	198	0.17%
California	345	1,708	2,053	0.10%
Colorado	2,017	1,103	3,120	1.05%
Connecticut	0	180	180	0.07%
Delaware	10	47	57	0.09%
District of Columbia	0	81	81	0.07%
Florida	80	639	719	0.09%
Georgia	0	332	332	0.07%
Hawaii	0	57	57	0.07%
Idaho	702	209	912	1.42%
Illinois	16	521	537	0.07%
Indiana	0	220	220	0.07%
Iowa	2	118	119	0.07%
Kansas	0	103	103	0.07%
Kentucky	0	135	135	0.07%
Louisiana	454	293	747	0.29%
Maine	0	39	39	0.07%
Maryland	0	227	227	0.07%
Massachusetts	0	298	298	0.07%
Michigan	2,063	1,462	3,525	0.85%
Minnesota	2,831	3,139	5,970	1.88%
Mississippi	0	77	77	0.07%
Missouri	81	408	489	0.18%
Montana	901	374	1,274	3.00%
Nebraska	0	72	72	0.07%
Nevada	7,812	2,220	10,032	7.35%
New Hampshire	0	50	50	0.07%
New Jersey	0	368	368	0.07%
New Mexico	552	277	828	0.96%
New York	51	893	943	0.08%
North Carolina	6	359	365	0.07%
North Dakota	0	36	36	0.07%
Ohio	0	378	378	0.07%
Oklahoma	0	128	128	0.07%
Oregon	24	178	202	0.09%
Pennsylvania	12	461	473	0.08%
Rhode Island	0	37	37	0.07%
South Carolina	95	165	261	0.15%
South Dakota	38	48	86	0.20%
Tennessee	21	383	404	0.14%
Texas	399	1,256	1,655	0.11%
Utah	1,593	777	2,371	1.77%
Vermont	0	20	20	0.07%
Virginia	111	368	478	0.10%
Washington	337	407	745	0.19%
West Virginia	48	72	120	0.18%
Wisconsin	0	198	198	0.07%
Wyoming	0	29	29	0.07%
Total Operations	31,787	24,498	56,284	0.35%

U.S. NON-METALLIC MINERALS MINING BY STATE

Table 12. Non-metallic Mineral Mining and the U.S. Economy by State, 2012

State	Employment		Labor Income		Contribution to GDP	
	Number	Percent of State Total	(\$millions)	Percent of State Total	(\$millions)	Percent of State Total
Alabama	16,930	0.68%	\$909	0.79%	\$1,909	1.0%
Alaska	3,160	0.65%	130	0.43%	262	0.5%
Arizona	18,000	0.56%	1,006	0.61%	2,460	0.9%
Arkansas	10,880	0.70%	496	0.73%	744	0.7%
California	65,690	0.33%	4,144	0.32%	7,542	0.4%
Colorado	31,750	0.98%	1,812	1.00%	3,107	1.0%
Connecticut	5,700	0.26%	385	0.25%	621	0.2%
Delaware	820	0.15%	49	0.16%	105	0.2%
District of Columbia	1,240	0.15%	116	0.14%	176	0.2%
Florida	39,730	0.40%	1,813	0.38%	3,246	0.4%
Georgia	31,940	0.60%	1,873	0.69%	2,714	0.6%
Hawaii	2,490	0.28%	149	0.31%	229	0.3%
Idaho	11,390	1.29%	520	1.37%	1,013	1.6%
Illinois	26,810	0.36%	1,725	0.39%	3,371	0.5%
Indiana	17,980	0.50%	980	0.56%	1,901	0.6%
Iowa	11,770	0.59%	605	0.63%	838	0.5%
Kansas	10,040	0.55%	467	0.52%	923	0.6%
Kentucky	14,710	0.62%	779	0.71%	1,594	0.8%
Louisiana	11,060	0.43%	588	0.46%	1,124	0.4%
Maine	3,030	0.38%	119	0.34%	176	0.3%
Maryland	10,050	0.30%	643	0.31%	1,192	0.4%
Massachusetts	9,300	0.22%	657	0.23%	1,012	0.2%
Michigan	19,110	0.37%	1,050	0.40%	1,790	0.4%
Minnesota	14,320	0.41%	880	0.46%	1,328	0.4%
Mississippi	4,650	0.31%	218	0.35%	338	0.3%
Missouri	20,360	0.58%	1,123	0.65%	1,466	0.5%
Montana	7,260	1.14%	373	1.46%	626	1.5%
Nebraska	5,650	0.45%	319	0.51%	456	0.5%
Nevada	13,670	0.90%	774	1.02%	1,534	1.1%
New Hampshire	4,340	0.52%	229	0.52%	320	0.5%
New Jersey	11,230	0.23%	798	0.25%	1,219	0.2%
New Mexico	14,750	1.40%	797	1.60%	1,307	1.5%
New York	33,560	0.30%	2,300	0.29%	3,778	0.3%
North Carolina	20,740	0.39%	1,049	0.40%	1,749	0.4%
North Dakota	4,320	0.77%	288	0.97%	443	0.9%
Ohio	31,430	0.48%	1,792	0.54%	3,268	0.6%
Oklahoma	13,200	0.60%	662	0.62%	1,317	0.7%
Oregon	12,580	0.57%	683	0.63%	1,170	0.5%
Pennsylvania	45,980	0.64%	2,571	0.65%	4,261	0.7%
Rhode Island	1,520	0.26%	91	0.28%	147	0.3%
South Carolina	10,820	0.43%	523	0.48%	1,022	0.6%
South Dakota	4,080	0.71%	201	0.76%	329	0.8%
Tennessee	16,280	0.45%	925	0.51%	1,304	0.4%
Texas	66,580	0.45%	3,786	0.45%	7,251	0.5%
Utah	18,000	1.07%	920	1.18%	1,675	1.2%
Vermont	3,690	0.87%	169	0.91%	231	0.8%
Virginia	21,100	0.44%	1,351	0.48%	2,617	0.6%
Washington	19,960	0.52%	1,116	0.49%	2,279	0.6%
West Virginia	5,240	0.57%	275	0.65%	580	0.8%
Wisconsin	24,250	0.70%	1,319	0.77%	2,633	1.0%
Wyoming	23,710	6.05%	1,616	8.22%	3,010	7.5%
Total Operations	846,850	0.48%	48,161	0.49%	85,705	0.5%

Table 12a. Non-metallic Mineral Mining Employment by State, 2012

State	Direct Effects				Indirect and Induced	Total Contribution
	Mine Workers	Support Activities	Transportation	Total Direct		
Alabama	5,220	80	2,320	7,620	9,310	16,930
Alaska	690	30	210	930	2,230	3,160
Arizona	4,270	110	2,610	6,990	11,010	18,000
Arkansas	2,980	20	2,560	5,560	5,320	10,880
California	9,920	120	10,670	20,710	44,980	65,690
Colorado	4,980	270	8,570	13,820	17,930	31,750
Connecticut	970	60	730	1,760	3,940	5,700
Delaware	60	0	50	110	710	820
District of Columbia	0	0	0	0	1,240	1,240
Florida	7,370	190	10,050	17,610	22,120	39,730
Georgia	8,130	190	3,940	12,260	19,680	31,940
Hawaii	470	0	300	770	1,720	2,490
Idaho	2,280	220	3,000	5,500	5,890	11,390
Illinois	4,330	240	4,140	8,710	18,100	26,810
Indiana	4,390	90	2,820	7,300	10,680	17,980
Iowa	3,890	40	1,380	5,310	6,460	11,770
Kansas	2,910	10	1,880	4,800	5,240	10,040
Kentucky	3,360	280	2,660	6,300	8,410	14,710
Louisiana	2,180	80	1,960	4,220	6,840	11,060
Maine	970	10	270	1,250	1,780	3,030
Maryland	1,550	200	1,340	3,090	6,960	10,050
Massachusetts	1,470	40	750	2,260	7,040	9,300
Michigan	3,650	110	2,720	6,480	12,630	19,110
Minnesota	3,360	210	1,380	4,950	9,370	14,320
Mississippi	1,220	0	490	1,710	2,940	4,650
Missouri	6,270	200	1,590	8,060	12,300	20,360
Montana	1,680	60	1,550	3,290	3,970	7,260
Nebraska	1,550	20	660	2,230	3,420	5,650
Nevada	2,510	330	3,450	6,290	7,380	13,670
New Hampshire	830	50	970	1,850	2,490	4,340
New Jersey	1,360	90	1,220	2,670	8,560	11,230
New Mexico	3,260	130	4,070	7,460	7,290	14,750
New York	4,700	50	6,930	11,680	21,880	33,560
North Carolina	5,800	40	1,940	7,780	12,960	20,740
North Dakota	1,210	100	780	2,090	2,230	4,320
Ohio	6,060	560	4,400	11,020	20,410	31,430
Oklahoma	3,280	100	2,400	5,780	7,420	13,200
Oregon	2,120	100	2,360	4,580	8,000	12,580
Pennsylvania	10,060	420	8,560	19,040	26,940	45,980
Rhode Island	260	10	160	430	1,090	1,520
South Carolina	2,320	10	1,790	4,120	6,700	10,820
South Dakota	1,280	30	640	1,950	2,130	4,080
Tennessee	4,230	180	1,580	5,990	10,290	16,280
Texas	15,550	350	9,300	25,200	41,380	66,580
Utah	4,150	370	3,040	7,560	10,440	18,000
Vermont	1,190	40	600	1,830	1,860	3,690
Virginia	4,130	210	3,700	8,040	13,060	21,100
Washington	5,680	200	2,630	8,510	11,450	19,960
West Virginia	1,440	60	1,020	2,520	2,720	5,240
Wisconsin	6,020	240	3,960	10,220	14,030	24,250
Wyoming	5,190	180	8,310	13,680	10,030	23,710
Total Operations	182,750	6,730	144,410	333,890	512,960	846,850

Table 12b. Non-metallic Mineral Mining Labor Income by State, 2012 (millions of dollars)

State	Direct Contribution to Labor Income	Indirect and Induced	Total Contribution	Total Contribution as a % of State Total Labor Income
Alabama	484	425	909	0.79%
Alaska	53	77	130	0.43%
Arizona	442	564	1,006	0.61%
Arkansas	255	241	496	0.73%
California	1,160	2,984	4,144	0.32%
Colorado	819	992	1,812	1.00%
Connecticut	91	294	385	0.25%
Delaware	3	45	49	0.16%
District of Columbia	0	116	116	0.14%
Florida	676	1,137	1,813	0.38%
Georgia	859	1,014	1,873	0.69%
Hawaii	51	98	149	0.31%
Idaho	277	243	520	1.37%
Illinois	594	1,131	1,725	0.39%
Indiana	463	516	980	0.56%
Iowa	299	306	605	0.63%
Kansas	209	258	467	0.52%
Kentucky	393	386	779	0.71%
Louisiana	243	345	588	0.46%
Maine	34	84	119	0.34%
Maryland	202	442	643	0.31%
Massachusetts	141	516	657	0.23%
Michigan	388	662	1,050	0.40%
Minnesota	352	527	880	0.46%
Mississippi	87	132	218	0.35%
Missouri	490	632	1,123	0.65%
Montana	212	160	373	1.46%
Nebraska	144	174	319	0.51%
Nevada	401	374	774	1.02%
New Hampshire	93	135	229	0.52%
New Jersey	196	602	798	0.25%
New Mexico	475	323	797	1.60%
New York	621	1,679	2,300	0.29%
North Carolina	383	665	1,049	0.40%
North Dakota	178	111	288	0.97%
Ohio	747	1,045	1,792	0.54%
Oklahoma	296	366	662	0.62%
Oregon	283	400	683	0.63%
Pennsylvania	1,069	1,502	2,571	0.65%
Rhode Island	27	64	91	0.28%
South Carolina	222	301	523	0.48%
South Dakota	106	95	201	0.76%
Tennessee	380	545	925	0.51%
Texas	1,375	2,410	3,786	0.45%
Utah	447	473	920	1.18%
Vermont	86	83	169	0.91%
Virginia	579	772	1,351	0.48%
Washington	420	695	1,116	0.49%
West Virginia	150	125	275	0.65%
Wisconsin	634	685	1,319	0.77%
Wyoming	1,191	426	1,616	8.22%
Total Operations	19,783	28,378	48,161	0.49%

Table 12c. Non-metallic Mineral Mining Contribution to GDP by State, 2012 (millions of dollars)

State	Direct Contribution to GDP	Indirect and Induced	Total Contribution	Total Contribution as a % of State GDP
Alabama	1,168	742	1,909	1.0%
Alaska	120	142	262	0.5%
Arizona	1,450	1,010	2,460	0.9%
Arkansas	312	431	744	0.7%
California	2,496	5,046	7,542	0.4%
Colorado	1,519	1,588	3,107	1.0%
Connecticut	121	500	621	0.2%
Delaware	10	95	105	0.2%
District of Columbia	10	165	176	0.2%
Florida	1,270	1,976	3,246	0.4%
Georgia	941	1,773	2,714	0.6%
Hawaii	60	170	229	0.3%
Idaho	610	403	1,013	1.6%
Illinois	1,453	1,917	3,371	0.5%
Indiana	968	933	1,901	0.6%
Iowa	295	544	838	0.5%
Kansas	484	439	923	0.6%
Kentucky	918	675	1,594	0.8%
Louisiana	437	686	1,124	0.4%
Maine	37	139	176	0.3%
Maryland	480	711	1,192	0.4%
Massachusetts	217	795	1,012	0.2%
Michigan	691	1,099	1,790	0.4%
Minnesota	405	923	1,328	0.4%
Mississippi	99	239	338	0.3%
Missouri	443	1,023	1,466	0.5%
Montana	352	274	626	1.5%
Nebraska	162	295	456	0.5%
Nevada	885	649	1,534	1.1%
New Hampshire	102	217	320	0.5%
New Jersey	214	1,005	1,219	0.2%
New Mexico	747	560	1,307	1.5%
New York	1,082	2,696	3,778	0.3%
North Carolina	474	1,275	1,749	0.4%
North Dakota	243	201	443	0.9%
Ohio	1,508	1,760	3,268	0.6%
Oklahoma	680	638	1,317	0.7%
Oregon	430	739	1,170	0.5%
Pennsylvania	1,917	2,344	4,261	0.7%
Rhode Island	42	105	147	0.3%
South Carolina	518	504	1,022	0.6%
South Dakota	162	168	329	0.8%
Tennessee	396	909	1,304	0.4%
Texas	2,947	4,304	7,251	0.5%
Utah	856	819	1,675	1.2%
Vermont	98	133	231	0.8%
Virginia	1,300	1,317	2,617	0.6%
Washington	1,047	1,232	2,279	0.6%
West Virginia	365	215	580	0.8%
Wisconsin	1,477	1,157	2,633	1.0%
Wyoming	2,216	794	3,010	7.5%
Total Operations	37,228	48,477	85,705	0.5%

Details Regarding IMPLAN Methodology and Data

To evaluate the overall economic contribution of U.S. mining in 2012, we followed two general steps: first, derive the direct impacts of mining; and second, adjust the IMPLAN model output to capture a more complete estimate of the overall impact.

Derivation on Direct Impacts

As described in the report, the IMPLAN model produces economic multipliers to calculate the overall economic contribution of U.S. mining in terms of the direct, indirect and induced impacts. For U.S. mining, the codes in the IMPLAN model align with the NAICS codes presented in the report for the definition of the U.S. mining industry (see Appendix D).

The IMPLAN model relies on employment data from the U.S. Bureau of Economic Analysis (BEA). However, the Mine Safety and Health Administration (MSHA) also collects information on mining industry employment. We believe that the MSHA data more accurately reflect the true direct employment situation of the mining industry. We have applied IMPLAN multipliers to the MSHA data to derive indirect and induced impacts and rounded employment data to the nearest 10 employees.

The BEA classifies contractor activity closely related to mining, such as contract blasting and drilling, in the “Support Activities for Mining” sector (NAICS 213113, 213114, and 213115). These codes also include some activity completed by the mine operator on a fee or contract basis. More generalized services that could be offered to a variety of industries are classified in the industry code associated with the activity, such as Construction (NAICS 23). The IMPLAN model does not break the Support Activities for Mining sector into the coal, metal and non-metallic minerals segments. We allocated the overall activity to the sectors based on national estimates from MSHA and the direct employment of mine workers in each sector.

Data on the contribution to GDP, labor income, and taxes paid, and categorized by state are derived from the IMPLAN model multipliers applied to MSHA data.

Adjustments to IMPLAN Model

Economic multipliers are designed to measure the overall change in production that would result from a marginal increase in a particular industry. For example, an output multiplier converts a \$1 million increase in output of the mining sector into the total change in output throughout the supply chain. Because some suppliers of U.S. mining might rely on mining for inputs, a marginal change in the mining sector could lead to an additional change in mining activity attributable to the goods it provides its suppliers throughout the economy. This impact is appropriate to include when modeling a marginal change, but when evaluating the overall impact of the industry, these indirect, own-industry impacts should be excluded to prevent double-counting. Therefore, we have adjusted the IMPLAN model results to exclude any indirect or induced effects taking place in the mining industry.

I-O models capture the upstream relationships, but certain downstream impacts are not reflected in the economic multipliers. Some of these effects, such as the transportation of mine output to the purchaser, could be attributable to U.S. mining. To capture the economic activity associated with the transportation of mining output, we have relied on sector-specific transportation margins in the IMPLAN model. Based on these margins, we have estimated the direct, indirect, and induced economic activity associated with this activity at a state level.

Because IMPLAN state models capture only the indirect and induced effects within each state, the indirect and induced effects crossing state borders (“cross-state spillover effects”) are not captured by the IMPLAN state models. As such, the state-level indirect and induced impacts calculated by the IMPLAN state models must be adjusted to add up to the overall impact captured by the national model, which includes the cross-state effects. We therefore allocated the cross-state

indirect and induced employment, labor income, and contribution to GDP effects across the 50 states and the District of Columbia in proportion to each state's share of the total national employment, labor income, and contribution to GDP by industry. The state level indirect and induced effects reported throughout this study include such allocations of cross-state spillover effects.

Appendix A. NAICS Definition of U.S. Mining

Mining Division	Detail	NAICS Code	Description
Coal	Bituminous Coal and Lignite Surface Mining Bituminous Coal Underground Mining Anthracite Mining	212111 212112 212113	This segment includes establishments engaged in: (1) mining bituminous coal, anthracite, and lignite by underground mining, auger mining, strip mining, culm bank mining, and other surface mining; (2) developing coal mine sites; and (3) beneficiating (i.e., preparing) coal.
Metal Ore Mining	Iron Ore Mining Gold Ore Mining Silver Ore Mining Lead Ore and Zinc Ore Mining Copper Ore and Nickel Ore Mining Uranium-Radium-Vanadium Ore Mining All Other Metal Ore Mining	212210 212221 212222 212231 212234 212291 212299	This segment includes establishments primarily engaged in developing mine sites or mining metallic minerals, and establishments primarily engaged in ore dressing and beneficiating operations, such as crushing, grinding, washing, etc. Beneficiating may be performed at mills operated in conjunction with the mines served or at mills operated separately.
Non-metallic Mineral Mining and Quarrying	Dimension Stone Mining/Quarrying Crushed/Broken Limestone Mining/Quarrying Crushed/Broken Granite Mining/Quarrying Other Crushed, Broken Stone Mining/Quarry Construction Sand and Gravel Mining Industrial Sand Mining Kaolin and Ball Clay Mining Clay, Ceramic, Refractory Minerals Mining Potash, Soda, and Borate Mineral Mining Phosphate Rock Mining Other Chemical and Fertilizer Mineral Mining All Other Non-metallic Mineral Mining	212311 212312 212313 212319 212321 212321 212324 212325 212392 212392 212393 212399	This segment includes establishments primarily engaged in developing mine sites, or in mining or quarrying non-metallic minerals (except fuels). Also included are certain well and brine operations, and preparation plants primarily engaged in beneficiating non-metallic minerals.
Support Activities for Coal, Metal, and Non-metallic Mining	Support Activities for Coal Mining Support Activities for Metal Mining Support Activities for Non-metallic Minerals Mining	213113 213114 213115	This segment includes establishments primarily engaged in providing support activities for coal, metal, and non-metallic mining (except site preparation and related construction activities) on a contract or fee basis. Exploration for coal is included in this industry. Contract activities can be performed in-house by mining operators.

Source: Census Bureau, North American Industry Classification System (NAICS)

Appendix B. The IMPLAN Model

IMPLAN is a well-known modeling system developed by the Minnesota IMPLAN Group for estimating economic impacts and is similar to the Regional Input-Output Modeling System developed by the U.S. Department of Commerce. The model is primarily based on government data sources. It can address a wide range of impact topics in a given region (county, state) or the country as a whole.

IMPLAN is built around an “input-output” table that relates the purchases that each industry has made from other industries to the value of the output of each industry. To meet the demand for goods and services from an industry, purchases are made in other industries according to the patterns recorded in the input-output table. These purchases in turn spark still more purchases by the industry’s suppliers, and so on. Meanwhile, employees and business owners make personal purchases out of the additional income that is generated by this process, further increasing demand that ripples through the economy. Multipliers describe these iterations. The Type I multiplier measures the direct and indirect effects of a change in economic activity. It captures the inter-industry effects only, i.e., industries buying from local industries. The SAM (Social Accounting Matrix) multiplier captures the direct and indirect effects. In addition, it also reflects induced effects (i.e. changes in spending from households as income increases or decreases due to the changes in production).

ADDITIONAL DETAIL BY STATE

Mining in Alabama, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,571	\$20	\$1,168	\$2,759
Indirect and Induced	\$1,348	\$148	\$742	\$2,238
Total	\$2,919	\$168	\$1,910	\$4,997
Employment				
Direct				
Mine Workers	6,690	70	5,220	11,980
Support Activities	100	0	80	180
Transportation	3,400	60	2,320	5,780
Total Direct	10,190	130	7,620	17,940
Indirect and Induced	17,050	1,540	9,310	27,900
Total	27,240	1,670	16,930	45,840
Labor Income (\$millions)				
Direct	\$894	\$7	\$484	\$1,385
Indirect and Induced	\$785	\$85	\$425	\$1,295
Total	\$1,679	\$92	\$909	\$2,680
Average State Labor Income				
Mining Direct	\$87,800	\$52,027	\$62,872	\$76,953
State Average, All Industries	\$46,546	\$46,546	\$46,546	\$46,546
Tax Contributions (\$millions)				
Overall	\$595	\$34	\$307	\$936
State and Local Only	\$221	\$13	\$91	\$325

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Alaska, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$30	\$1,005	\$120	\$1,155
Indirect and Induced	\$116	\$313	\$142	\$571
Total	\$146	\$1,318	\$262	\$1,726
Employment				
Direct				
Mine Workers	150	2,830	690	3,670
Support Activities	10	130	30	170
Transportation	50	840	210	1,100
Total Direct	210	3,800	930	4,940
Indirect and Induced	870	2,930	2,230	6,030
Total	1,080	6,730	3,160	10,970
Labor Income (\$millions)				
Direct	\$14	\$282	\$53	\$349
Indirect and Induced	\$61	\$171	\$77	\$309
Total	\$75	\$453	\$130	\$658
Average State Labor Income				
Mining Direct	\$66,667	\$74,211	\$56,989	\$68,401
State Average, All Industries	\$61,983	\$61,983	\$61,983	\$61,983
Tax Contributions (\$millions)				
Overall	\$32	\$243	\$48	\$323
State and Local Only	\$16	\$106	\$20	\$142

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Arizona, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$387	\$10,094	\$1,450	\$11,931
Indirect and Induced	\$677	\$2,959	\$1,010	\$4,646
Total	\$1,064	\$13,053	\$2,460	\$16,577
Employment				
Direct				
Mine Workers	730	15,120	4,270	20,120
Support Activities	20	400	110	530
Transportation	230	2,170	2,610	5,010
Total Direct	980	17,690	6,990	25,660
Indirect and Induced	6,660	32,410	11,010	50,080
Total	7,640	50,100	18,000	75,740
Labor Income (\$millions)				
Direct	\$138	\$1,413	\$442	\$1,993
Indirect and Induced	\$383	\$1,714	\$564	\$2,661
Total	\$521	\$3,127	\$1,006	\$4,654
Average State Labor Income				
Mining Direct	\$140,450	\$93,654	\$62,427	\$86,933
State Average, All Industries	\$51,267	\$51,267	\$51,267	\$51,267
Tax Contributions (\$millions)				
Overall	\$201	\$2,159	\$376	\$2,736
State and Local Only	\$77	\$906	\$120	\$1,103

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Arkansas, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$18	\$66	\$312	\$396
Indirect and Induced	\$218	\$132	\$431	\$781
Total	\$236	\$198	\$743	\$1,177
Employment				
Direct				
Mine Workers	110	730	2,980	3,820
Support Activities	0	0	20	20
Transportation	70	10	2,560	2,640
Total Direct	180	740	5,560	6,480
Indirect and Induced	2,460	1,450	5,320	9,230
Total	2,640	2,190	10,880	15,710
Labor Income (\$millions)				
Direct	\$12	\$55	\$255	\$322
Indirect and Induced	\$127	\$72	\$241	\$440
Total	\$139	\$127	\$496	\$762
Average State Labor Income				
Mining Direct	\$68,816	\$73,511	\$55,375	\$58,261
State Average, All Industries	\$43,941	\$43,941	\$43,941	\$43,941
Tax Contributions (\$millions)				
Overall	\$50	\$49	\$154	\$253
State and Local Only	\$21	\$24	\$57	\$102

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in California, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$11	\$345	\$2,496	\$2,852
Indirect and Induced	\$3,722	\$1,708	\$5,046	\$10,476
Total	\$3,733	\$2,053	\$7,542	\$13,328
Employment				
Direct				
Mine Workers	80	1,280	9,920	11,280
Support Activities	0	20	120	140
Transportation	10	720	10,670	11,400
Total Direct	90	2,020	20,710	22,820
Indirect and Induced	29,460	13,490	44,980	87,930
Total	29,550	15,510	65,690	110,750
Labor Income (\$millions)				
Direct	\$7	\$135	\$1,160	\$1,302
Indirect and Induced	\$2,216	\$992	\$2,984	\$6,192
Total	\$2,223	\$1,127	\$4,144	\$7,494
Average State Labor Income				
Mining Direct	\$64,455	\$65,996	\$55,382	\$56,354
State Average, All Industries	\$63,292	\$63,292	\$63,292	\$63,292
Tax Contributions (\$millions)				
Overall	\$847	\$432	\$1,432	\$2,711
State and Local Only	\$335	\$173	\$517	\$1,025

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Colorado, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,142	\$2,017	\$1,519	\$4,678
Indirect and Induced	\$1,421	\$1,103	\$1,588	\$4,112
Total	\$2,563	\$3,120	\$3,107	\$8,790
Employment				
Direct				
Mine Workers	3,910	3,700	4,980	12,590
Support Activities	210	200	270	680
Transportation	1,950	4,360	8,570	14,880
Total Direct	6,070	8,260	13,820	28,150
Indirect and Induced	15,090	12,290	17,930	45,310
Total	21,160	20,550	31,750	73,460
Labor Income (\$millions)				
Direct	\$522	\$771	\$819	\$2,112
Indirect and Induced	\$893	\$679	\$992	\$2,564
Total	\$1,415	\$1,450	\$1,811	\$4,676
Average State Labor Income				
Mining Direct	\$86,024	\$92,041	\$58,602	\$74,325
State Average, All Industries	\$56,140	\$56,140	\$56,140	\$56,140
Tax Contributions (\$millions)				
Overall	\$511	\$570	\$545	\$1,626
State and Local Only	\$191	\$208	\$165	\$564

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Connecticut, 2012¹

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$3	\$0	\$121	\$124
Indirect and Induced	\$448	\$180	\$500	\$1,128
Total	\$451	\$180	\$621	\$1,252
Employment				
Direct				
Mine Workers	10	0	970	980
Support Activities	0	0	60	60
Transportation	0	0	730	730
Total Direct	10	0	1,760	1,770
Indirect and Induced	3,220	1,240	3,940	8,400
Total	3,230	1,240	5,700	10,170
Labor Income (\$millions)				
Direct	\$1	\$0	\$91	\$92
Indirect and Induced	\$264	\$103	\$294	\$661
Total	\$265	\$103	\$385	\$753
Average State Labor Income				
Mining Direct	\$75,879	NA	\$51,250	\$51,459
State Average, All Industries	\$69,317	\$69,317	\$69,317	\$69,317
Tax Contributions (\$millions)				
Overall	\$111	\$42	\$138	\$291
State and Local Only	\$38	\$15	\$46	\$99

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Delaware, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1	\$10	\$10	\$21
Indirect and Induced	\$109	\$47	\$95	\$251
Total	\$110	\$57	\$105	\$272
Employment				
Direct				
Mine Workers	0	50	60	110
Support Activities	0	0	0	0
Transportation	0	0	50	50
Total Direct	0	50	110	160
Indirect and Induced	780	340	710	1,830
Total	780	390	820	1,990
Labor Income (\$millions)				
Direct	\$0	\$3	\$3	\$6
Indirect and Induced	\$53	\$23	\$45	\$121
Total	\$53	\$26	\$48	\$127
Average State Labor Income				
Mining Direct	\$75,827	\$66,216	\$34,757	\$45,676
State Average, All Industries	\$57,054	\$57,054	\$57,054	\$57,054
Tax Contributions (\$millions)				
Overall	\$21	\$8	\$18	\$47
State and Local Only	\$9	\$3	\$7	\$19

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in District of Columbia, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$10	\$10
Indirect and Induced	\$200	\$81	\$165	\$446
Total	\$200	\$81	\$175	\$456
Employment				
Direct				
Mine Workers	0	0	0	0
Support Activities	0	0	0	0
Transportation	0	0	0	0
Total Direct	0	0	0	0
Indirect and Induced	1,200	460	1,240	2,900
Total	1,200	460	1,240	2,900
Labor Income (\$millions)				
Direct	\$0	\$0	\$0	\$0
Indirect and Induced	\$144	\$56	\$116	\$316
Total	\$144	\$56	\$116	\$316
Average State Labor Income				
Mining Direct	NA	NA	NA	\$76,235
State Average, All Industries	\$46,546	\$46,546	\$46,546	\$46,546
Tax Contributions (\$millions)				
Overall	\$29	\$11	\$23	\$63
State and Local Only	\$8	\$3	\$6	\$17

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Florida, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$43	\$80	\$1,270	\$1,393
Indirect and Induced	\$1,463	\$639	\$1,976	\$4,078
Total	\$1,506	\$719	\$3,246	\$5,471
Employment				
Direct				
Mine Workers	290	180	7,370	7,840
Support Activities	10	0	190	200
Transportation	0	540	10,050	10,590
Total Direct	300	720	17,610	18,630
Indirect and Induced	15,010	6,510	22,120	43,640
Total	15,310	7,230	39,730	62,270
Labor Income (\$millions)				
Direct	\$16	\$37	\$676	\$729
Indirect and Induced	\$846	\$362	\$1,137	\$2,345
Total	\$862	\$399	\$1,813	\$3,074
Average State Labor Income				
Mining Direct	\$51,801	\$50,770	\$44,875	\$45,271
State Average, All Industries	\$46,546	\$46,546	\$46,546	\$46,546
Tax Contributions (\$millions)				
Overall	\$354	\$158	\$938	\$1,450
State and Local Only	\$133	\$61	\$324	\$518

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Georgia, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$26	\$0	\$941	\$967
Indirect and Induced	\$841	\$332	\$1,773	\$2,946
Total	\$867	\$332	\$2,714	\$3,913
Employment				
Direct				
Mine Workers	160	0	8,130	8,290
Support Activities	0	0	190	190
Transportation	0	0	3,940	3,940
Total Direct	160	0	12,260	12,420
Indirect and Induced	7,900	2,990	19,680	30,570
Total	8,060	2,990	31,940	42,990
Labor Income (\$millions)				
Direct	\$15	\$0	\$859	\$874
Indirect and Induced	\$480	\$185	\$1,014	\$1,679
Total	\$495	\$185	\$1,873	\$2,553
Average State Labor Income				
Mining Direct	\$90,540	NA	\$69,313	\$69,588
State Average, All Industries	\$51,413	\$51,413	\$51,413	\$51,413
Tax Contributions (\$millions)				
Overall	\$174	\$64	\$542	\$780
State and Local Only	\$66	\$25	\$196	\$287

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Hawaii, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$60	\$60
Indirect and Induced	\$142	\$57	\$170	\$369
Total	\$142	\$57	\$230	\$429
Employment				
Direct				
Mine Workers	0	0	470	470
Support Activities	0	0	0	0
Transportation	0	0	300	300
Total Direct	0	0	770	770
Indirect and Induced	1,310	510	1,720	3,540
Total	1,310	510	2,490	4,310
Labor Income (\$millions)				
Direct	\$0	\$0	\$51	\$51
Indirect and Induced	\$83	\$33	\$98	\$214
Total	\$83	\$33	\$149	\$265
Average State Labor Income				
Mining Direct	NA	NA	\$66,273	\$66,273
State Average, All Industries	\$53,632	\$53,632	\$53,632	\$53,632
Tax Contributions (\$millions)				
Overall	\$28	\$11	\$47	\$86
State and Local Only	\$12	\$5	\$21	\$38

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Idaho, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$14	\$702	\$610	\$1,326
Indirect and Induced	\$118	\$209	\$403	\$730
Total	\$132	\$911	\$1,013	\$2,056
Employment				
Direct				
Mine Workers	50	1,660	2,280	3,990
Support Activities	0	160	220	380
Transportation	0	510	3,000	3,510
Total Direct	50	2,330	5,500	7,880
Indirect and Induced	1,320	2,800	5,890	10,010
Total	1,370	5,130	11,390	17,890
Labor Income (\$millions)				
Direct	\$6	\$171	\$277	\$454
Indirect and Induced	\$68	\$119	\$243	\$430
Total	\$74	\$290	\$520	\$884
Average State Labor Income				
Mining Direct	\$107,186	\$72,691	\$49,892	\$56,997
State Average, All Industries	\$43,135	\$43,135	\$43,135	\$43,135
Tax Contributions (\$millions)				
Overall	\$27	\$139	\$165	\$331
State and Local Only	\$11	\$46	\$51	\$108

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Illinois, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,495	\$16	\$1,453	\$2,964
Indirect and Induced	\$2,855	\$521	\$1,917	\$5,293
Total	\$4,350	\$537	\$3,370	\$8,257
Employment				
Direct				
Mine Workers	6,000	30	4,330	10,360
Support Activities	340	0	240	580
Transportation	3,010	10	4,140	7,160
Total Direct	9,350	40	8,710	18,100
Indirect and Induced	26,400	4,220	18,100	48,720
Total	35,750	4,260	26,810	66,820
Labor Income (\$millions)				
Direct	\$845	\$6	\$594	\$1,445
Indirect and Induced	\$1,723	\$303	\$1,131	\$3,157
Total	\$2,568	\$309	\$1,725	\$4,602
Average State Labor Income				
Mining Direct	\$90,322	\$158,298	\$67,404	\$79,443
State Average, All Industries	\$60,083	\$60,083	\$60,083	\$60,083
Tax Contributions (\$millions)				
Overall	\$964	\$114	\$623	\$1,701
State and Local Only	\$385	\$47	\$223	\$655

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Indiana, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,356	\$0	\$968	\$2,324
Indirect and Induced	\$1,490	\$220	\$933	\$2,643
Total	\$2,846	\$220	\$1,901	\$4,967
Employment				
Direct				
Mine Workers	6,280	0	4,390	10,670
Support Activities	120	0	90	210
Transportation	2,500	0	2,820	5,320
Total Direct	8,900	0	7,300	16,200
Indirect and Induced	17,220	2,040	10,680	29,940
Total	26,120	2,040	17,980	46,140
Labor Income (\$millions)				
Direct	\$824	\$0	\$463	\$1,287
Indirect and Induced	\$846	\$119	\$516	\$1,481
Total	\$1,670	\$119	\$979	\$2,768
Average State Labor Income				
Mining Direct	\$92,552	NA	\$62,828	\$79,169
State Average, All Industries	\$48,695	\$48,695	\$48,695	\$48,695
Tax Contributions (\$millions)				
Overall	\$645	\$43	\$333	\$1,021
State and Local Only	\$283	\$18	\$116	\$417

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Iowa, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$9	\$2	\$295	\$306
Indirect and Induced	\$298	\$118	\$544	\$960
Total	\$307	\$120	\$839	\$1,266
Employment				
Direct				
Mine Workers	50	20	3,890	3,960
Support Activities	0	0	40	40
Transportation	0	0	1,380	1,380
Total Direct	50	20	5,310	5,380
Indirect and Induced	2,970	1,140	6,460	10,570
Total	3,020	1,160	11,770	15,950
Labor Income (\$millions)				
Direct	\$5	\$1	\$299	\$305
Indirect and Induced	\$170	\$65	\$306	\$541
Total	\$175	\$66	\$605	\$846
Average State Labor Income				
Mining Direct	\$91,087	\$88,736	\$55,974	\$56,370
State Average, All Industries	\$48,080	\$48,080	\$48,080	\$48,080
Tax Contributions (\$millions)				
Overall	\$61	\$22	\$179	\$262
State and Local Only	\$24	\$9	\$67	\$100

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Kansas, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$24	\$0	\$484	\$508
Indirect and Induced	\$268	\$135	\$439	\$842
Total	\$292	\$135	\$923	\$1,350
Employment				
Direct				
Mine Workers	80	0	2,910	2,990
Support Activities	0	0	10	10
Transportation	40	0	1,880	1,920
Total Direct	120	0	4,800	4,920
Indirect and Induced	2,820	1,030	5,240	9,090
Total	2,940	1,030	10,040	14,010
Labor Income (\$millions)				
Direct	\$11	\$0	\$209	\$220
Indirect and Induced	\$162	\$74	\$258	\$494
Total	\$173	\$74	\$467	\$714
Average State Labor Income				
Mining Direct	\$98,504	NA	\$50,959	\$52,273
State Average, All Industries	\$48,839	\$48,839	\$48,839	\$48,839
Tax Contributions (\$millions)				
Overall	\$63	\$21	\$160	\$244
State and Local Only	\$26	\$9	\$55	\$90

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Kentucky, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$4,220	\$0	\$918	\$5,138
Indirect and Induced	\$3,090	\$135	\$675	\$3,900
Total	\$7,310	\$135	\$1,593	\$9,038
Employment				
Direct				
Mine Workers	22,100	0	3,360	25,460
Support Activities	1,870	0	280	2,150
Transportation	6,200	0	2,660	8,860
Total Direct	30,170	0	6,300	36,470
Indirect and Induced	39,680	1,340	8,410	49,430
Total	69,850	1,340	14,710	85,900
Labor Income (\$millions)				
Direct	\$2,410	\$0	\$393	\$2,803
Indirect and Induced	\$1,789	\$74	\$386	\$2,249
Total	\$4,199	\$74	\$779	\$5,053
Average State Labor Income				
Mining Direct	\$79,904	NA	\$61,615	\$76,741
State Average, All Industries	\$46,152	\$46,152	\$46,152	\$46,152
Tax Contributions (\$millions)				
Overall	\$1,767	\$31	\$282	\$2,080
State and Local Only	\$796	\$15	\$102	\$913

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Louisiana, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$156	\$454	\$437	\$1,047
Indirect and Induced	\$563	\$293	\$686	\$1,542
Total	\$719	\$747	\$1,123	\$2,589
Employment				
Direct				
Mine Workers	490	1,050	2,180	3,720
Support Activities	20	40	80	140
Transportation	310	60	1,960	2,330
Total Direct	820	1,150	4,220	6,190
Indirect and Induced	4,980	2,720	6,840	14,540
Total	5,800	3,870	11,060	20,730
Labor Income (\$millions)				
Direct	\$77	\$135	\$243	\$455
Indirect and Induced	\$279	\$144	\$345	\$768
Total	\$356	\$279	\$588	\$1,223
Average State Labor Income				
Mining Direct	\$93,850	\$116,798	\$56,998	\$72,922
State Average, All Industries	\$49,639	\$49,639	\$49,639	\$49,639
Tax Contributions (\$millions)				
Overall	\$131	\$129	\$188	\$448
State and Local Only	\$51	\$55	\$68	\$174

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Maine, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$37	\$37
Indirect and Induced	\$97	\$39	\$139	\$275
Total	\$97	\$39	\$176	\$312
Employment				
Direct				
Mine Workers	0	0	970	970
Support Activities	0	0	10	10
Transportation	0	0	270	270
Total Direct	0	0	1,250	1,250
Indirect and Induced	1,160	450	1,780	3,390
Total	1,160	450	3,030	4,640
Labor Income (\$millions)				
Direct	\$0	\$0	\$34	\$34
Indirect and Induced	\$60	\$24	\$84	\$168
Total	\$60	\$24	\$118	\$202
Average State Labor Income				
Mining Direct	NA	NA	\$27,264	\$27,264
State Average, All Industries	\$43,604	\$43,604	\$43,604	\$43,604
Tax Contributions (\$millions)				
Overall	\$24	\$9	\$39	\$72
State and Local Only	\$11	\$4	\$17	\$32

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Maryland, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$265	\$0	\$480	\$745
Indirect and Induced	\$795	\$227	\$711	\$1,733
Total	\$1,060	\$227	\$1,191	\$2,478
Employment				
Direct				
Mine Workers	1,760	0	1,550	3,310
Support Activities	220	0	200	420
Transportation	110	0	1,340	1,450
Total Direct	2,090	0	3,090	5,180
Indirect and Induced	7,400	1,910	6,960	16,270
Total	9,490	1,910	10,050	21,450
Labor Income (\$millions)				
Direct	\$149	\$0	\$202	\$351
Indirect and Induced	\$502	\$139	\$442	\$1,083
Total	\$651	\$139	\$644	\$1,434
Average State Labor Income				
Mining Direct	\$70,899	NA	\$64,758	\$67,246
State Average, All Industries	\$60,893	\$60,893	\$60,893	\$60,893
Tax Contributions (\$millions)				
Overall	\$256	\$52	\$220	\$528
State and Local Only	\$103	\$21	\$91	\$215

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Massachusetts, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1	\$0	\$217	\$218
Indirect and Induced	\$742	\$298	\$795	\$1,835
Total	\$743	\$298	\$1,012	\$2,053
Employment				
Direct				
Mine Workers	10	0	1,470	1,480
Support Activities	0	0	40	40
Transportation	0	0	750	750
Total Direct	10	0	2,260	2,270
Indirect and Induced	6,110	2,370	7,040	15,520
Total	6,120	2,370	9,300	17,790
Labor Income (\$millions)				
Direct	\$1	\$0	\$141	\$142
Indirect and Induced	\$488	\$191	\$516	\$1,195
Total	\$489	\$191	\$657	\$1,337
Average State Labor Income				
Mining Direct	\$75,827	NA	\$61,678	\$61,716
State Average, All Industries	\$67,172	\$67,172	\$67,172	\$67,172
Tax Contributions (\$millions)				
Overall	\$171	\$66	\$209	\$446
State and Local Only	\$60	\$24	\$72	\$156

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Michigan, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$8	\$2,063	\$691	\$2,762
Indirect and Induced	\$746	\$1,462	\$1,099	\$3,307
Total	\$754	\$3,525	\$1,790	\$6,069
Employment				
Direct				
Mine Workers	30	2,270	3,650	5,950
Support Activities	0	70	110	180
Transportation	30	6,830	2,720	9,580
Total Direct	60	16,530	6,480	23,070
Indirect and Induced	7,660	1,540	12,630	21,830
Total	7,720	18,070	19,110	44,900
Labor Income (\$millions)				
Direct	\$6	\$644	\$388	\$1,038
Indirect and Induced	\$461	\$856	\$662	\$1,979
Total	\$467	\$1,500	\$1,050	\$3,017
Average State Labor Income				
Mining Direct	\$75,827	\$69,286	\$59,296	\$65,249
State Average, All Industries	\$50,819	\$50,819	\$50,819	\$50,819
Tax Contributions (\$millions)				
Overall	\$171	\$635	\$346	\$1,152
State and Local Only	\$60	\$242	\$122	\$424

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Minnesota, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$94	\$2,831	\$405	\$3,330
Indirect and Induced	\$609	\$3,139	\$923	\$4,671
Total	\$703	\$5,970	\$1,328	\$8,001
Employment				
Direct				
Mine Workers	490	6,620	3,360	10,470
Support Activities	30	410	210	650
Transportation	0	11,080	1,380	12,460
Total Direct	520	18,110	4,950	23,580
Indirect and Induced	5,570	31,520	9,370	46,460
Total	6,090	49,630	14,320	70,040
Labor Income (\$millions)				
Direct	\$52	\$1,345	\$352	\$1,749
Indirect and Induced	\$352	\$1,762	\$527	\$2,641
Total	\$404	\$3,107	\$879	\$4,390
Average State Labor Income				
Mining Direct	\$99,834	\$73,266	\$70,503	\$73,274
State Average, All Industries	\$54,369	\$54,369	\$54,369	\$54,369
Tax Contributions (\$millions)				
Overall	\$123	\$1,346	\$281	\$1,750
State and Local Only	\$48	\$613	\$104	\$765

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Mississippi, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	53	\$0	\$99	\$152
Indirect and Induced	\$238	\$77	\$239	\$554
Total	\$291	\$77	\$338	\$706
Employment				
Direct				
Mine Workers	300	0	1,220	1,520
Support Activities	0	0	0	0
Transportation	250	0	490	740
Total Direct	550	0	1,710	2,260
Indirect and Induced	2,830	840	2,940	6,610
Total	3,380	840	4,650	8,870
Labor Income (\$millions)				
Direct	\$39	\$0	\$87	\$126
Indirect and Induced	\$136	\$43	\$132	\$311
Total	\$175	\$43	\$219	\$437
Average State Labor Income				
Mining Direct	\$70,895	NA	\$50,233	\$55,225
State Average, All Industries	\$42,160	\$42,160	\$42,160	\$42,160
Tax Contributions (\$millions)				
Overall	\$64	\$16	\$67	\$147
State and Local Only	\$27	\$7	\$26	\$60

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Missouri, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	135	\$81	\$443	\$659
Indirect and Induced	\$595	\$408	\$1,023	\$2,026
Total	\$730	\$489	\$1,466	\$2,685
Employment				
Direct				
Mine Workers	470	960	6,270	7,700
Support Activities	20	30	200	250
Transportation	250	70	1,590	1,910
Total Direct	740	1,060	8,060	9,860
Indirect and Induced	6,680	4,540	12,300	23,520
Total	7,420	5,600	20,360	33,380
Labor Income (\$millions)				
Direct	\$119	\$137	\$490	\$746
Indirect and Induced	\$373	\$254	\$632	\$1,259
Total	\$492	\$391	\$1,122	\$2,005
Average State Labor Income				
Mining Direct	\$161,543	\$127,288	\$60,141	\$74,975
State Average, All Industries	\$49,215	\$49,215	\$49,215	\$49,215
Tax Contributions (\$millions)				
Overall	\$168	\$149	\$319	\$636
State and Local Only	\$70	\$90	\$120	\$280

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Montana, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$387	\$901	\$352	\$1,640
Indirect and Induced	\$305	\$374	\$274	\$953
Total	\$692	\$1,275	\$626	\$2,593
Employment				
Direct				
Mine Workers	1,440	2,870	1,680	5,990
Support Activities	60	110	60	230
Transportation	700	810	1,550	3,060
Total Direct	2,200	3,790	3,290	9,280
Indirect and Induced	4,280	5,220	3,970	13,470
Total	6,480	9,010	7,260	22,750
Labor Income (\$millions)				
Direct	\$170	\$357	\$212	\$739
Indirect and Induced	\$178	\$212	\$160	\$550
Total	\$348	\$569	\$372	\$1,289
Average State Labor Income				
Mining Direct	\$77,705	\$93,045	\$63,689	\$78,986
State Average, All Industries	\$40,209	\$40,209	\$40,209	\$40,209
Tax Contributions (\$millions)				
Overall	\$175	\$403	\$128	\$706
State and Local Only	\$88	\$241	\$47	\$376

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Nebraska, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$162	\$162
Indirect and Induced	\$178	\$72	\$295	\$545
Total	\$178	\$72	\$457	\$707
Employment				
Direct				
Mine Workers	0	0	1,550	1,550
Support Activities	0	0	20	20
Transportation	0	0	660	660
Total Direct	0	0	2,230	2,230
Indirect and Induced	1,810	700	3,420	5,930
Total	1,810	700	5,650	8,160
Labor Income (\$millions)				
Direct	\$0	\$0	\$144	\$144
Indirect and Induced	\$108	\$42	\$174	\$324
Total	\$108	\$42	\$318	\$468
Average State Labor Income				
Mining Direct	NA	NA	\$63,943	\$63,943
State Average, All Industries	\$49,995	\$49,995	\$49,995	\$49,995
Tax Contributions (\$millions)				
Overall	\$35	\$13	\$86	\$134
State and Local Only	\$13	\$5	\$29	\$47

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Nevada, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$3	\$7,812	\$885	\$8,700
Indirect and Induced	\$245	\$2,220	\$649	\$3,114
Total	\$248	\$10,032	\$1,534	\$11,814
Employment				
Direct				
Mine Workers	20	15,650	2,510	18,180
Support Activities	0	2,040	330	2,370
Transportation	0	4,170	3,450	7,620
Total Direct	20	21,860	6,290	28,170
Indirect and Induced	2,240	24,090	7,380	33,710
Total	2,260	45,950	13,670	61,880
Labor Income (\$millions)				
Direct	\$2	\$2,147	\$401	\$2,550
Indirect and Induced	\$133	\$1,223	\$374	\$1,730
Total	\$135	\$3,370	\$775	\$4,280
Average State Labor Income				
Mining Direct	\$79,537	\$96,928	\$63,028	\$89,351
State Average, All Industries	\$50,208	\$50,208	\$50,208	\$50,208
Tax Contributions (\$millions)				
Overall	\$51	\$1,608	\$253	\$1,912
State and Local Only	\$18	\$543	\$74	\$635

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in New Hampshire, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$102	\$102
Indirect and Induced	\$123	\$50	\$217	\$390
Total	\$123	\$50	\$319	\$492
Employment				
Direct				
Mine Workers	0	0	830	830
Support Activities	0	0	50	50
Transportation	0	0	970	970
Total Direct	0	0	1,850	1,850
Indirect and Induced	1,200	470	2,490	4,160
Total	1,200	470	4,340	6,010
Labor Income (\$millions)				
Direct	\$0	\$0	\$93	\$93
Indirect and Induced	\$76	\$30	\$135	\$241
Total	\$76	\$30	\$228	\$334
Average State Labor Income				
Mining Direct	NA	NA	\$49,959	\$49,959
State Average, All Industries	\$53,307	\$53,307	\$53,307	\$53,307
Tax Contributions (\$millions)				
Overall	\$27	\$10	\$67	\$104
State and Local Only	\$9	\$3	\$21	\$33

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in New Jersey, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$2	\$0	\$214	\$216
Indirect and Induced	\$916	\$368	\$1,005	\$2,289
Total	\$918	\$368	\$1,219	\$2,505
Employment				
Direct				
Mine Workers	10	0	1,360	1,370
Support Activities	0	0	90	90
Transportation	0	0	1,220	1,220
Total Direct	10	0	8,560	8,570
Indirect and Induced	7,250	2,810	10,960	21,020
Total	7,260	2,810	19,520	29,590
Labor Income (\$millions)				
Direct	\$1	\$0	\$196	\$197
Indirect and Induced	\$561	\$219	\$602	\$1,382
Total	\$562	\$219	\$798	\$1,579
Average State Labor Income				
Mining Direct	\$75,905	NA	\$72,583	\$72,595
State Average, All Industries	\$65,071	\$65,071	\$65,071	\$65,071
Tax Contributions (\$millions)				
Overall	\$231	\$89	\$282	\$602
State and Local Only	\$88	\$35	\$104	\$227

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in New Mexico, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$523	\$552	\$747	\$1,822
Indirect and Induced	\$374	\$277	\$560	\$1,211
Total	\$897	\$829	\$1,307	\$3,033
Employment				
Direct				
Mine Workers	1,630	2,130	3,260	7,020
Support Activities	60	80	130	270
Transportation	780	330	4,070	5,180
Total Direct	2,470	2,540	7,460	12,470
Indirect and Induced	4,490	3,200	7,290	14,980
Total	6,960	5,740	14,750	27,450
Labor Income (\$millions)				
Direct	\$238	\$190	\$475	\$903
Indirect and Induced	\$212	\$155	\$323	\$690
Total	\$450	\$345	\$798	\$1,593
Average State Labor Income				
Mining Direct	\$96,237	\$73,782	\$62,965	\$71,763
State Average, All Industries	\$47,302	\$47,302	\$47,302	\$47,302
Tax Contributions (\$millions)				
Overall	\$164	\$226	\$246	\$636
State and Local Only	\$83	\$132	\$88	\$303

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in New York, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$7	\$51	\$1,082	\$1,140
Indirect and Induced	\$2,181	\$893	\$2,696	\$5,770
Total	\$2,188	\$944	\$3,778	\$6,910
Employment				
Direct				
Mine Workers	40	110	4,700	4,850
Support Activities	0	0	50	50
Transportation	0	10	6,930	6,940
Total Direct	40	120	11,680	11,840
Indirect and Induced	16,410	6,490	21,880	44,780
Total	16,450	6,610	33,560	56,620
Labor Income (\$millions)				
Direct	\$4	\$21	\$621	\$646
Indirect and Induced	\$1,378	\$548	\$1,679	\$3,605
Total	\$1,382	\$569	\$2,300	\$4,251
Average State Labor Income				
Mining Direct	\$75,827	\$170,891	\$52,547	\$53,856
State Average, All Industries	\$70,725	\$70,725	\$70,725	\$70,725
Tax Contributions (\$millions)				
Overall	\$566	\$234	\$824	\$1,624
State and Local Only	\$252	\$108	\$335	\$695

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in North Carolina, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$10	\$6	\$474	\$490
Indirect and Induced	\$890	\$359	\$1,275	\$2,524
Total	\$900	\$365	\$1,749	\$3,014
Employment				
Direct				
Mine Workers	100	20	5,800	5,920
Support Activities	0	0	40	40
Transportation	30	60	1,940	2,030
Total Direct	130	80	7,780	7,990
Indirect and Induced	7,840	3,070	12,960	23,870
Total	7,970	3,150	20,740	31,860
Labor Income (\$millions)				
Direct	\$8	\$5	\$383	\$396
Indirect and Induced	\$457	\$180	\$665	\$1,302
Total	\$465	\$185	\$1,048	\$1,698
Average State Labor Income				
Mining Direct	\$61,731	\$63,645	\$48,806	\$49,149
State Average, All Industries	\$49,252	\$49,252	\$49,252	\$49,252
Tax Contributions (\$millions)				
Overall	\$183	\$71	\$345	\$599
State and Local Only	\$75	\$30	\$133	\$238

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in North Dakota, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$438	\$0	\$243	\$681
Indirect and Induced	\$291	\$36	\$201	\$528
Total	\$729	\$36	\$444	\$1,209
Employment				
Direct				
Mine Workers	1,430	0	1,210	2,640
Support Activities	110	0	100	210
Transportation	580	0	780	1,360
Total Direct	2,120	0	2,090	4,210
Indirect and Induced	3,140	320	2,230	5,690
Total	5,260	320	4,320	9,900
Labor Income (\$millions)				
Direct	\$213	\$0	\$178	\$391
Indirect and Induced	\$161	\$20	\$111	\$292
Total	\$374	\$20	\$289	\$683
Average State Labor Income				
Mining Direct	\$100,751	NA	\$84,556	\$92,735
State Average, All Industries	\$52,853	\$52,853	\$52,853	\$52,853
Tax Contributions (\$millions)				
Overall	\$211	\$7	\$92	\$310
State and Local Only	\$121	\$2	\$33	\$156

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Ohio, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,147	\$0	\$1,508	\$2,655
Indirect and Induced	\$1,927	\$378	\$1,760	\$4,065
Total	\$3,074	\$378	\$3,268	\$6,720
Employment				
Direct				
Mine Workers	5,380	0	6,060	11,440
Support Activities	480	0	560	1,040
Transportation	1,740	0	4,400	6,140
Total Direct	7,600	0	11,020	18,620
Indirect and Induced	21,610	3,700	20,410	45,720
Total	29,210	3,700	31,430	64,340
Labor Income (\$millions)				
Direct	\$652	\$0	\$747	\$1,399
Indirect and Induced	\$1,163	\$225	\$1,045	\$2,433
Total	\$1,815	\$225	\$1,792	\$3,832
Average State Labor Income				
Mining Direct	\$85,812	NA	\$64,949	\$73,302
State Average, All Industries	\$50,701	\$50,701	\$50,701	\$50,701
Tax Contributions (\$millions)				
Overall	\$669	\$79	\$601	\$1,349
State and Local Only	\$294	\$34	\$222	\$550

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Oklahoma, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$95	\$0	\$680	\$775
Indirect and Induced	\$373	\$128	\$638	\$1,139
Total	\$468	\$128	\$1,318	\$1,914
Employment				
Direct				
Mine Workers	340	0	3,280	3,620
Support Activities	10	0	100	110
Transportation	180	0	2,400	2,580
Total Direct	530	0	5,780	6,310
Indirect and Induced	3,860	1,230	7,420	12,510
Total	4,390	1,230	13,200	18,820
Labor Income (\$millions)				
Direct	\$44	\$0	\$296	\$340
Indirect and Induced	\$216	\$72	\$366	\$654
Total	\$260	\$72	\$662	\$994
Average State Labor Income				
Mining Direct	\$83,529	NA	\$50,588	\$53,313
State Average, All Industries	\$48,939	\$48,939	\$48,939	\$48,939
Tax Contributions (\$millions)				
Overall	\$91	\$24	\$213	\$328
State and Local Only	\$34	\$10	\$66	\$110

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Oregon, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1	\$24	\$430	\$455
Indirect and Induced	\$403	\$178	\$739	\$1,320
Total	\$404	\$202	\$1,169	\$1,775
Employment				
Direct				
Mine Workers	0	160	2,120	2,280
Support Activities	0	10	100	110
Transportation	0	20	2,360	2,380
Total Direct	0	190	4,580	4,770
Indirect and Induced	3,230	1,450	8,000	12,680
Total	3,230	1,640	12,580	17,450
Labor Income (\$millions)				
Direct	\$0	\$14	\$283	\$297
Indirect and Induced	\$188	\$83	\$400	\$671
Total	\$188	\$97	\$683	\$968
Average State Labor Income				
Mining Direct	\$68,382	\$73,962	\$49,908	\$50,701
State Average, All Industries	\$48,800	\$48,800	\$48,800	\$48,800
Tax Contributions (\$millions)				
Overall	\$75	\$37	\$215	\$327
State and Local Only	\$29	\$15	\$75	\$119

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Pennsylvania, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$3,279	\$12	\$1,917	\$5,208
Indirect and Induced	\$4,449	\$461	\$2,344	\$7,254
Total	\$7,728	\$473	\$4,261	\$12,462
Employment				
Direct				
Mine Workers	14,250	10	10,060	24,320
Support Activities	600	0	420	1,020
Transportation	8,660	140	8,560	17,360
Total Direct	23,510	150	19,040	42,700
Indirect and Induced	48,840	4,230	26,940	80,010
Total	72,350	4,380	45,980	122,710
Labor Income (\$millions)				
Direct	\$1,910	\$9	\$1,069	\$2,988
Indirect and Induced	\$2,792	\$276	\$1,502	\$4,570
Total	\$4,702	\$285	\$2,571	\$7,558
Average State Labor Income				
Mining Direct	\$81,272	\$63,129	\$55,511	\$69,720
State Average, All Industries	\$54,821	\$54,821	\$54,821	\$54,821
Tax Contributions (\$millions)				
Overall	\$1,546	\$102	\$933	\$2,581
State and Local Only	\$496	\$40	\$295	\$831

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Rhode Island, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$0	\$0	\$42	\$42
Indirect and Induced	\$92	\$37	\$105	\$234
Total	\$92	\$37	\$147	\$276
Employment				
Direct				
Mine Workers	0	0	260	260
Support Activities	0	0	10	10
Transportation	0	0	160	160
Total Direct	0	0	430	430
Indirect and Induced	850	330	1,090	2,270
Total	850	330	1,520	2,700
Labor Income (\$millions)				
Direct	\$0	\$0	\$27	\$27
Indirect and Induced	\$55	\$22	\$64	\$141
Total	\$55	\$22	\$91	\$168
Average State Labor Income				
Mining Direct	NA	NA	\$62,433	\$62,433
State Average, All Industries	\$54,635	\$54,635	\$54,635	\$54,635
Tax Contributions (\$millions)				
Overall	\$23	\$9	\$32	\$64
State and Local Only	\$9	\$4	\$13	\$26

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in South Carolina, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$4	\$95	\$518	\$617
Indirect and Induced	\$324	\$165	\$504	\$993
Total	\$328	\$260	\$1,022	\$1,610
Employment				
Direct				
Mine Workers	50	180	2,320	2,550
Support Activities	0	0	10	10
Transportation	0	320	1,790	2,110
Total Direct	50	500	4,120	4,670
Indirect and Induced	3,580	1,980	6,700	12,260
Total	3,630	2,480	10,820	16,930
Labor Income (\$millions)				
Direct	\$3	\$44	\$222	\$269
Indirect and Induced	\$193	\$97	\$301	\$591
Total	\$196	\$141	\$523	\$860
Average State Labor Income				
Mining Direct	\$53,943	\$86,921	\$53,314	\$56,888
State Average, All Industries	\$44,159	\$44,159	\$44,159	\$44,159
Tax Contributions (\$millions)				
Overall	\$72	\$52	\$178	\$302
State and Local Only	\$29	\$21	\$62	\$112

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in South Dakota, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$8	\$38	\$162	\$208
Indirect and Induced	\$77	\$48	\$168	\$293
Total	\$85	\$86	\$330	\$501
Employment				
Direct				
Mine Workers	30	210	1,280	1,520
Support Activities	0	10	30	40
Transportation	0	30	640	670
Total Direct	30	250	1,950	2,230
Indirect and Induced	860	550	2,130	3,540
Total	890	800	4,080	5,770
Labor Income (\$millions)				
Direct	\$3	\$21	\$106	\$130
Indirect and Induced	\$47	\$27	\$95	\$169
Total	\$50	\$48	\$201	\$299
Average State Labor Income				
Mining Direct	\$109,022	\$84,656	\$53,754	\$57,869
State Average, All Industries	\$46,509	\$46,509	\$46,509	\$46,509
Tax Contributions (\$millions)				
Overall	\$17	\$19	\$60	\$96
State and Local Only	\$7	\$9	\$19	\$35

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Tennessee, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$88	\$21	\$396	\$505
Indirect and Induced	\$653	\$383	\$909	\$1,945
Total	\$741	\$404	\$1,305	\$2,450
Employment				
Direct				
Mine Workers	1,120	1,240	4,230	6,590
Support Activities	50	50	180	280
Transportation	120	120	1,580	1,820
Total Direct	6,840	1,410	5,990	14,240
Indirect and Induced	3,580	4,040	10,290	17,910
Total	10,420	5,450	16,280	32,150
Labor Income (\$millions)				
Direct	\$76	\$83	\$380	\$539
Indirect and Induced	\$396	\$231	\$545	\$1,172
Total	\$472	\$314	\$925	\$1,711
Average State Labor Income				
Mining Direct	\$58,449	\$58,145	\$62,692	\$61,324
State Average, All Industries	\$50,103	\$50,103	\$50,103	\$50,103
Tax Contributions (\$millions)				
Overall	\$155	\$109	\$254	\$518
State and Local Only	\$59	\$52	\$84	\$195

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Texas, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$1,235	\$399	\$2,947	\$4,581
Indirect and Induced	\$3,799	\$1,256	\$4,304	\$9,359
Total	\$5,034	\$1,655	\$7,251	\$13,940
Employment				
Direct				
Mine Workers	4,590	1,850	15,550	21,990
Support Activities	110	40	350	500
Transportation	2,570	160	9,300	12,030
Total Direct	7,270	2,050	25,200	34,520
Indirect and Induced	34,290	10,360	41,380	86,030
Total	41,560	12,410	66,580	120,550
Labor Income (\$millions)				
Direct	\$692	\$161	\$1,375	\$2,228
Indirect and Induced	\$2,164	\$685	\$2,410	\$5,259
Total	\$2,856	\$846	\$3,785	\$7,487
Average State Labor Income				
Mining Direct	\$90,468	\$77,170	\$56,200	\$65,197
State Average, All Industries	\$57,399	\$57,399	\$57,399	\$57,399
Tax Contributions (\$millions)				
Overall	\$981	\$301	\$1,190	\$2,472
State and Local Only	\$354	\$113	\$361	\$828

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Utah, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$704	\$1,593	\$856	\$3,153
Indirect and Induced	\$824	\$777	\$819	\$2,420
Total	\$1,528	\$2,370	\$1,675	\$5,573
Employment				
Direct				
Mine Workers	2,900	4,240	4,150	11,290
Support Activities	260	380	370	1,010
Transportation	1,230	490	3,040	4,760
Total Direct	4,390	5,110	7,560	17,060
Indirect and Induced	10,180	9,520	10,440	30,140
Total	14,570	14,630	18,000	47,200
Labor Income (\$millions)				
Direct	\$360	\$433	\$447	\$1,240
Indirect and Induced	\$480	\$453	\$473	\$1,406
Total	\$840	\$886	\$920	\$2,646
Average State Labor Income				
Mining Direct	\$81,966	\$83,710	\$58,440	\$72,059
State Average, All Industries	\$46,352	\$46,352	\$46,352	\$46,352
Tax Contributions (\$millions)				
Overall	\$300	\$462	\$288	\$1,050
State and Local Only	\$117	\$212	\$94	\$423

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Vermont, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$3	\$0	\$98	\$101
Indirect and Induced	\$53	\$20	\$133	\$206
Total	\$56	\$20	\$231	\$307
Employment				
Direct				
Mine Workers	20	0	1,190	1,210
Support Activities	0	0	40	40
Transportation	0	0	600	600
Total Direct	20	0	1,830	1,850
Indirect and Induced	640	240	1,860	2,740
Total	660	240	3,690	4,590
Labor Income (\$millions)				
Direct	\$1	\$0	\$86	\$87
Indirect and Induced	\$33	\$13	\$83	\$129
Total	\$34	\$13	\$169	\$216
Average State Labor Income				
Mining Direct	\$78,573	NA	\$46,762	\$47,031
State Average, All Industries	\$43,923	\$43,923	\$43,923	\$43,923
Tax Contributions (\$millions)				
Overall	\$12	\$5	\$52	\$69
State and Local Only	\$5	\$2	\$19	\$26

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Virginia, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$2,458	\$111	\$1,300	\$3,869
Indirect and Induced	\$2,632	\$368	\$1,317	\$4,317
Total	\$5,090	\$479	\$2,617	\$8,186
Employment				
Direct				
Mine Workers	8,550	220	4,130	12,900
Support Activities	440	10	210	660
Transportation	4,090	110	3,700	7,900
Total Direct	13,080	340	8,040	21,460
Indirect and Induced	26,740	3,130	13,060	42,930
Total	39,820	3,470	21,100	64,390
Labor Income (\$millions)				
Direct	\$1,482	\$52	\$579	\$2,113
Indirect and Induced	\$1,570	\$214	\$772	\$2,556
Total	\$3,052	\$266	\$1,351	\$4,669
Average State Labor Income				
Mining Direct	\$113,196	\$153,874	\$71,073	\$98,041
State Average, All Industries	\$59,453	\$59,453	\$59,453	\$59,453
Tax Contributions (\$millions)				
Overall	\$1,102	\$99	\$467	\$1,668
State and Local Only	\$417	\$38	\$151	\$606

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Washington, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$19	\$337	\$1,047	\$1,403
Indirect and Induced	\$704	\$407	\$1,232	\$2,343
Total	\$723	\$744	\$2,279	\$3,746
Employment				
Direct				
Mine Workers	80	960	5,680	6,720
Support Activities	0	30	200	230
Transportation	30	160	2,630	2,820
Total Direct	110	1,150	8,510	9,770
Indirect and Induced	5,730	3,420	11,450	20,600
Total	5,840	4,570	19,960	30,370
Labor Income (\$millions)				
Direct	\$9	\$97	\$420	\$526
Indirect and Induced	\$405	\$227	\$695	\$1,327
Total	\$414	\$324	\$1,115	\$1,853
Average State Labor Income				
Mining Direct	\$74,000	\$83,478	\$48,846	\$53,226
State Average, All Industries	\$59,773	\$59,773	\$59,773	\$59,773
Tax Contributions (\$millions)				
Overall	\$153	\$138	\$396	\$687
State and Local Only	\$53	\$49	\$120	\$222

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in West Virginia, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$7,747	\$48	\$365	\$8,160
Indirect and Induced	\$3,352	\$72	\$215	\$3,639
Total	\$11,099	\$120	\$580	\$11,799
Employment				
Direct				
Mine Workers	36,090	30	1,440	37,560
Support Activities	1,440	0	60	1,500
Transportation	7,690	400	1,020	9,110
Total Direct	45,220	430	2,520	48,170
Indirect and Induced	43,890	850	2,720	47,460
Total	89,110	1,280	5,240	95,630
Labor Income (\$millions)				
Direct	\$4,181	\$26	\$150	\$4,357
Indirect and Induced	\$1,868	\$42	\$125	\$2,035
Total	\$6,049	\$68	\$275	\$6,392
Average State Labor Income				
Mining Direct	\$92,451	\$59,698	\$58,843	\$90,405
State Average, All Industries	\$45,889	\$45,889	\$45,889	\$45,889
Tax Contributions (\$millions)				
Overall	\$2,892	\$25	\$106	\$3,023
State and Local Only	\$1,491	\$11	\$42	\$1,544

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Wisconsin, 2011

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$30	\$0	\$1,477	\$1,507
Indirect and Induced	\$518	\$198	\$1,157	\$1,873
Total	\$548	\$198	\$2,634	\$3,380
Employment				
Direct				
Mine Workers	160	0	6,020	6,180
Support Activities	10	0	240	250
Transportation	0	0	3,960	3,960
Total Direct	170	0	10,220	10,390
Indirect and Induced	5,300	1,960	14,030	21,290
Total	5,470	1,960	24,250	31,680
Labor Income (\$millions)				
Direct	\$16	\$0	\$634	\$650
Indirect and Induced	\$310	\$115	\$685	\$1,110
Total	\$326	\$115	\$1,319	\$1,760
Average State Labor Income				
Mining Direct	\$90,170	NA	\$61,288	\$61,760
State Average, All Industries	\$49,046	\$49,046	\$49,046	\$49,046
Tax Contributions (\$millions)				
Overall	\$121	\$42	\$462	\$625
State and Local Only	\$49	\$17	\$159	\$225

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

Mining in Wyoming, 2012

Measure	Coal Mining	Metal Mining	Non-Metallic Mining	All Mining
Contribution to GDP (\$millions)				
Direct	\$3,872	\$0	\$2,216	\$6,088
Indirect and Induced	\$1,141	\$29	\$794	\$1,964
Total	\$5,013	\$29	\$3,010	\$8,052
Employment				
Direct				
Mine Workers	9,180	0	5,190	14,370
Support Activities	330	0	180	510
Transportation	4,100	0	8,310	12,410
Total Direct	13,610	0	13,680	27,290
Indirect and Induced	13,640	220	10,030	23,890
Total	27,250	220	23,710	51,180
Labor Income (\$millions)				
Direct	\$1,412	\$0	\$1,191	\$2,603
Indirect and Induced	\$611	\$13	\$426	\$1,050
Total	\$2,023	\$13	\$1,617	\$3,653
Average State Labor Income				
Mining Direct	\$103,766	NA	\$86,081	\$76,235
State Average, All Industries	\$49,046	\$49,046	\$49,046	\$49,046
Tax Contributions (\$millions)				
Overall	\$1,197	\$96	\$572	\$1,865
State and Local Only	\$584	\$3	\$178	\$765

Source: NMA calculations based on IMPLAN modeling system (2012 database).

NA - not applicable. Data may not add to totals due to independent rounding.

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