

Materials and Fuels Consumed Summary: 2002

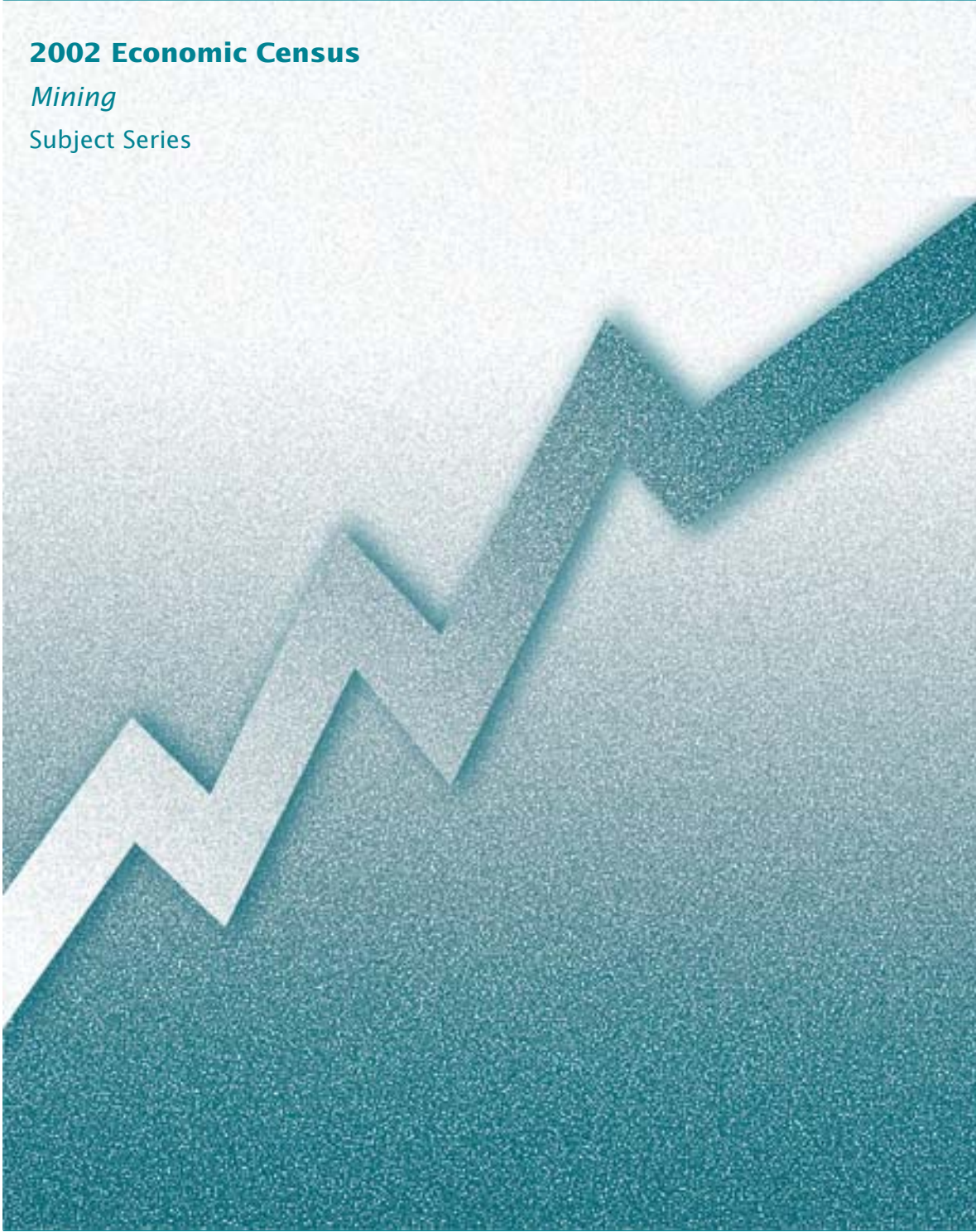
Issued January 2006

EC02-21SM-1

2002 Economic Census

Mining

Subject Series



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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in "2" and "7."

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and to assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart

from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933. Censuses of construction, manufacturing, and the other business censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Mining

SCOPE

The Mining sector (sector 21) comprises establishments that extract naturally occurring mineral solids, such as coal and ores; liquid minerals, such as crude petroleum; and gases, such as natural gas. The term mining is used in the broad sense to include quarrying, well operations, beneficiating (e.g., crushing, screening, washing, and flotation), and other preparation customarily performed at the mine site, or as a part of mining activity.

The mining sector distinguishes two basic activities: mine operation and mining support activities. Mine operation includes establishments operating mines, quarries, or oil and gas wells on their own account or for others on a contract or fee basis. Mining support activities include establishments that perform exploration (except geophysical surveying) and/or other mining services on a contract or fee basis (except mine site preparation and construction of oil/gas pipelines).

Establishments in the mining sector are grouped and classified according to the natural resource mined or to be mined. Industries include establishments that develop the mine site, extract the natural resources, and/or those that beneficiate (i.e., prepare) the mineral mined. Beneficiation is the process whereby the extracted material is reduced to particles that can be separated into mineral and waste, the former suitable for further processing or direct use. The operations that take place in beneficiation are primarily mechanical, such as grinding, washing, magnetic separation, and centrifugal separation. In contrast, manufacturing operations primarily use chemical and electrochemical processes, such as electrolysis and distillation. However, some treatments, such as heat treatments, take place in both the beneficiation and the manufacturing (i.e., smelting/refining) stages. The range of preparation activities varies by mineral and the purity of any given ore deposit. While some minerals, such as petroleum and natural gas, require little or no preparation, others are washed and screened, while yet others, such as gold and silver, can be transformed into bullion before leaving the mine site.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals into more finished manufactured products are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more finished manufactured product will be classified in Sector 31-33, Manufacturing.

Exclusions. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining).

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve mining establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in North American Industry Classification System (NAICS) Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These "nonemployers," typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in Nonemployer Statistics. The contribution of nonemployers, relatively moderate for this sector, may be examined at www.census.gov/nonemployerimpact.

The reports described below cover all mining establishments with one or more paid employees.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector:

Industry Series. There are 29 reports, each covering a single North American Industry Classification System (NAICS) industry (six-digit code). These reports include such statistics as number of establishments, employment, payroll, value added by mining, cost of supplies, value of shipments and receipts for services, capital expenditures, etc. The industry reports also include data for states with 100 employees or more in the industry. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There are 52 separate reports, one for each state, the District of Columbia, and offshore areas. Each state report presents similar statistics at the “all mining” level for each state. The state reports also include six-digit North American Industry Classification System (NAICS) level data for industries with 100 employees or more in the state.

Subject Series:

- **Industry-Product Analysis Summary.** This report presents value of shipments and receipts for services, value of product shipments or receipts for services, percentage of product shipments of the total value of shipments and receipts for services, and percentage of distribution of value of product shipments or receipts for services on the North American Industry Classification System (NAICS) six-digit industry level and by the six- and seven-digit product code levels. It also includes miscellaneous receipts at the six- and seven-digit product code levels by NAICS six-digit industry levels.
- **General Summary.** This report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.
- **Product Summary.** This report summarizes the products data published in the industry reports.
- **Materials Summary.** This report summarizes the materials and fuels data published in the industry reports.
- **Location of Mines Summary.** This report contains statistics on the number of establishments for the three- and six-digit North American Industry Classification System (NAICS) industry by state and offshore area by employment-size of the establishment.

Other reports. Data for this sector are also included in reports with multisector coverage, including Nonemployer Statistics, Comparative Statistics, Bridge Between 2002 NAICS and 1997 NAICS, Business Expenses, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

1. The United States as a whole.
2. States and the District of Columbia.
3. Offshore Areas. Data for offshore areas that are part of Alaska, California, Louisiana, and Texas are included in their respective state area reports and represent offshore operations on these state offshore leases and all federal offshore leases defined by their state plane coordinate systems. State offshore includes the areas extending from the coastline up to 3 geographical miles distance, except for Texas and Florida, which extend 3 marine leagues from the coastline in the Gulf of Mexico. Data for offshore areas not associated with a state are in an Offshore Areas geographic report that includes the following areas:

-
- a. Atlantic Offshore: Atlantic Federal Area, New Hampshire state offshore, Maine state offshore, Massachusetts state offshore, Connecticut state offshore, New York state offshore, New Jersey state offshore, Delaware state offshore, Maryland state offshore, Virginia state offshore, North Carolina state offshore, South Carolina state offshore, Georgia state offshore, and Florida state Atlantic offshore.
 - b. Northern Gulf of Mexico Offshore: Northern Gulf of Mexico Federal Areas defined by the Universal Transverse Mercator Coordinate System (including areas generally south of the state plane coordinate systems of Louisiana and Texas), Mississippi state offshore, Alabama state offshore, and Florida state Gulf offshore.
 - c. Pacific Offshore: Pacific Federal areas defined by Universal Transverse Mercator Coordinate System, Oregon state offshore, and Washington state offshore.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). There were several revisions to selected industries in the mining sector, for 2002. These changes were due to industries that are now being classified in the construction sector. These changes are:

- 213112 – Construction of field gathering lines on a contract basis
- 213112 – Site preparation and related construction activities on a contract basis
- 213113 – Site preparation and related construction activities on a contract basis
- 213114 – Site preparation and related construction activities on a contract basis
- 213115 – Site preparation and related construction activities on a contract basis

More detailed information of NAICS changes from 1997 to 2002, may be examined at www.census.gov/epcd/naics02/n02ton97.htm.

In addition, there has been a report added, which did not exist in 1997. Included for 2002 is the **Industry-Product Analysis Summary**.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for “industry statistics” files is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only capital expenditures and cost of supplies statistics are suppressed. Nonetheless, the suppressed data are included in higher-level totals.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or ask.census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

A	Standard error of 100 percent or more
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue
N	Not available or not comparable
S	Withheld because estimates did not meet publication standards
X	Not applicable
Z	Less than half the unit shown
a	0 to 19 employees
b	20 to 99 employees
c	100 to 249 employees
e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees
l	50,000 to 99,999 employees
m	100,000 employees or more
p	10 to 19 percent estimated
q	20 to 29 percent estimated
r	Revised
s	Sampling error exceeds 40 percent
nsk	Not specified by kind
–	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
211111	Crude petroleum and natural gas extraction		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	3 090 290
	1997..	X	3 829 117
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	541 532
	1997..	X	689 404
32500075	Industrial chemicals (including acidizing materials), excluding drilling fluids 2002..	X	598 817
	1997..	X	1 121 428
32599803	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers) 2002..	X	797 164
	1997..	X	664 132
32419100	Lubricating oils and greases (including hydraulic oils) 2002..	X	62 871
	1997..	X	68 022
32731001	Cement 2002..	X	358 635
	1997..	X	371 819
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	1 348 588
	1997..	X	1 369 649
33290013	Valves and pipe fittings 2002..	X	127 890
	1997..	X	301 906
33300005	Drill bits and reamers 2002..	X	154 207
	1997..	X	195 644
00999828	Water (purchased) 2002..	X	79 763
	1997..	X	71 595
00970098	All other supplies 2002..	X	556 402
	1997..	X	615 125
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	920 093
	1997..	X	1 660 701
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl. 2002..	3 716.4	109 967
	1997..	2 017.8	61 219
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl. 2002..	S	41 409
	1997..	648.6	20 549
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft. 2002..	P102.4	341 618
	1997..	169.7	459 812
32411015	Gasoline used as a fuel mil gal. 2002..	S	15 583
	1997..	98.3	105 255
21111101	Crude petroleum produced and used in the same plant as a fuel mil bbl. 2002..	D	X
	1997..	.6	X
21111003	Natural gas produced and used in the same plant as a fuel bil cu ft. 2002..	255.3	X
	1997..	715.9	X
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	46 412
	1997..	X	38 537
00974000	Undistributed fuels 2002..	X	248 697
	1997..	X	217 570
211112	Natural gas liquid extraction		
	Supplies consumed by type		
21111105	Crude petroleum (including condensate), received for processing mil bbl. 2002..	P17.0	255 030
	1997..	4.0	69 109
21111011	Natural gas processed bil cu ft. 2002..	P5 108.3	14 612 666
	1997..	7 239.5	16 113 360
21111201	Natural gas liquids, received for further processing mil bbl. 2002..	508.6	7 453 013
	1997..	227.4	2 994 116
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	222 825
	1997..	X	318 943
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	45 198
	1997..	X	42 411
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	29 971
	1997..	X	31 181
32510093	Industrial organic chemicals (including ethylene glycol and fluorinated hydrocarbon gases) 2002..	X	43 796
	1997..	X	53 731
32419100	Lubricating oils and greases (including hydraulic oils) 2002..	X	26 225
	1997..	X	18 475
00970098	All other supplies 2002..	X	59 422
	1997..	X	53 994
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	86 139
	1997..	X	131 278
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl. 2002..	D	D
	1997..	47.7	1 353
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft. 2002..	P121.7	344 523
	1997..	60.5	137 784
32411015	Gasoline used as a fuel mil gal. 2002..	D	D
	1997..	1.9	2 244
21111029	Residue gas produced and used at the same plant as a fuel bil cu ft. 2002..	397.0	X
	1997..	123.9	X
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	12 767
	1997..	X	D
00974000	Undistributed fuels 2002..	X	32 085
	1997..	X	D
212111	Bituminous coal and lignite surface mining		

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212111	Bituminous coal and lignite surface mining—Con.		
	Supplies consumed by type		
21211005	Run-of-mine (raw) coal, received for washing (wet-washing, pneumatic, etc.) mil s tons	2002.. 41.4 1997.. 180.4	458 447 2 368 122
21211007	Run-of-mine (raw) coal, mined and processed at same establishment by washing (wet-washing, pneumatic, etc.) mil s tons	2002.. 112.8 1997.. 98.2	X X
21211009	Run-of-mine (raw) coal, received for processing by other methods (including mechanical crushing, screening, or sizing) mil s tons	2002.. S 1997.. 9.8	220 616 184 043
21211011	Run-of-mine (raw) coal mined and processed at same establishment by other methods (including mechanically crushing, screening and sizing) mil s tons	2002.. 555.7 1997.. 490.6	X X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	592 334 488 185
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X 1997.. X	674 111 549 976
31320029	Filter and brattice cloth	2002.. X 1997.. X	10 784 3 271
11300000	Wood products and stumpage, round and hewn	2002.. X 1997.. X	1 783 1 070
32592003	Explosive materials, excluding ammonium nitrate	2002.. X 1997.. X	124 442 88 255
32592005	Ammonium nitrate	2002.. X 1997.. X	164 122 164 934
32592007	Blasting accessories	2002.. X 1997.. X	45 069 43 460
32419100	Lubricating oils and greases (including hydraulic oils)	2002.. X 1997.. X	56 107 42 663
32621001	Tires and inner tubes	2002.. X 1997.. X	71 706 70 231
32600009	Rubber and plastics products (hose, conveyor belting, etc.) excluding tires, tubes, and gaskets	2002.. X 1997.. X	16 992 7 486
32700037	Concrete products	2002.. X 1997.. X	3 155 1 782
32799217	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	2002.. X 1997.. X	9 006 5 871
33120049	Steel shapes and forms (excluding castings, forgings, and wire products)	2002.. X 1997.. X	27 962 13 273
33100085	Nonferrous metal wire including trolley wire	2002.. X 1997.. X	2 847 1 049
33272200	Roof bolts	2002.. X 1997.. X	7 150 1 940
33290007	Wire rope, cable, springs, and other fabricated wire products (excluding wire)	2002.. X 1997.. X	21 826 22 681
33300005	Drill bits and reamers	2002.. X 1997.. X	16 947 11 458
00970098	All other supplies	2002.. X 1997.. X	353 258 351 324
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X 1997.. X	416 701 272 034
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons	2002.. D 1997.. D	D D
21211013	Coal (bituminous, subbituminous, lignite, and anthracite) produced and used in the same plant as a fuel 1,000 s tons	2002.. 1.1 1997.. 31.5	X X
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl	2002.. P7 281.7 1997.. 7 420.4	264 656 219 512
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl	2002.. 973.4 1997.. 721.2	37 479 20 461
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft	2002.. D 1997.. .7	D D
32411015	Gasoline used as a fuel mil gal	2002.. P12.0 1997.. 29.4	13 139 24 031
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X 1997.. X	2 874 D
00974000	Undistributed fuels	2002.. X 1997.. X	26 843 89 002
212112	Bituminous coal underground mining		
	Supplies consumed by type		
21211005	Run-of-mine (raw) coal, received for washing (wet-washing, pneumatic, etc.) mil s tons	2002.. P25.2 1997.. 20.4	329 994 276 910
21211007	Run-of-mine (raw) coal, mined and processed at same establishment by washing (wet-washing, pneumatic, etc.) mil s tons	2002.. 272.8 1997.. 410.5	X X
21211009	Run-of-mine (raw) coal, received for processing by other methods (including mechanical crushing, screening, or sizing) mil s tons	2002.. 3.1 1997.. —	69 791 —
21211011	Run-of-mine (raw) coal mined and processed at same establishment by other methods (including mechanically crushing, screening and sizing) mil s tons	2002.. 48.3 1997.. 49.6	X X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	381 048 615 542

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212112	Bituminous coal underground mining—Con.		
	Supplies consumed by type—Con.		
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X	456 043
		1997.. X	587 799
31320029	Filter and brattice cloth	2002.. X	13 464
		1997.. X	12 786
11300000	Wood products and stumpage, round and hewn	2002.. X	56 916
		1997.. X	53 267
32592003	Explosive materials, excluding ammonium nitrate	2002.. X	6 094
		1997.. X	5 250
32592005	Ammonium nitrate	2002.. X	4 052
		1997.. X	7 815
32592007	Blasting accessories	2002.. X	1 054
		1997.. X	4 108
32419100	Lubricating oils and greases (including hydraulic oils)	2002.. X	40 333
		1997.. X	48 729
32621001	Tires and inner tubes	2002.. X	40 782
		1997.. X	21 816
32600009	Rubber and plastics products (hose, conveyor belting, etc.) excluding tires, tubes, and gaskets	2002.. X	57 043
		1997.. X	108 711
32700037	Concrete products	2002.. X	18 540
		1997.. X	25 120
32799217	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	2002.. X	22 440
		1997.. X	34 818
33120049	Steel shapes and forms (excluding castings, forgings, and wire products)	2002.. X	55 912
		1997.. X	68 605
33100085	Nonferrous metal wire including trolley wire	2002.. X	11 252
		1997.. X	19 022
33272200	Roof bolts	2002.. X	139 117
		1997.. X	165 118
33290007	Wire rope, cable, springs, and other fabricated wire products (excluding wire)	2002.. X	10 334
		1997.. X	16 293
33300005	Drill bits and reamers	2002.. X	50 622
		1997.. X	47 777
00970098	All other supplies	2002.. X	345 194
		1997.. X	433 113
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X	555 521
		1997.. X	215 292
	Fuels consumed by type		
21211013	Coal (bituminous, subbituminous, lignite, and anthracite) produced and used in the same plant as a fuel	1,000 s tons	2002.. 179.8 X
			1997.. 221.4 X
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl	2002.. S 14 835
			1997.. 655.9 20 584
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl	2002.. 178.3 6 638
			1997.. 144.8 4 051
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft	2002.. D D
			1997.. .5 2 552
32411015	Gasoline used as a fuel	mil gal	2002.. 1.5 1 720
			1997.. 4.0 4 385
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)		2002.. X D
			1997.. X D
00974000	Undistributed fuels		2002.. X 12 039
			1997.. X 10 583
212113	Anthracite mining		
	Supplies consumed by type		
21211005	Run-of-mine (raw) coal, received for washing (wet-washing, pneumatic, etc.)	mil s tons	2002.. P.2 5 845
			1997.. D D
21211007	Run-of-mine (raw) coal, mined and processed at same establishment by washing (wet-washing, pneumatic, etc.)	mil s tons	2002.. D X
			1997.. 2.2 X
21211009	Run-of-mine (raw) coal, received for processing by other methods (including mechanical crushing, screening, or sizing)	mil s tons	2002.. S 12 428
			1997.. .6 9 543
21211011	Run-of-mine (raw) coal mined and processed at same establishment by other methods (including mechanically crushing, screening and sizing)	mil s tons	2002.. D X
			1997.. D X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation		2002.. X D
			1997.. X 21 986
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X	2 114
		1997.. X	7 282
31320029	Filter and brattice cloth	2002.. X	D
		1997.. X	D
11300000	Wood products and stumpage, round and hewn	2002.. X	D
		1997.. X	53
32592003	Explosive materials, excluding ammonium nitrate	2002.. X	D
		1997.. X	707
32592005	Ammonium nitrate	2002.. X	892
		1997.. X	870
32592007	Blasting accessories	2002.. X	D
		1997.. X	D
32419100	Lubricating oils and greases (including hydraulic oils)	2002.. X	293
		1997.. X	410
32621001	Tires and inner tubes	2002.. X	545
		1997.. X	1 552
32600009	Rubber and plastics products (hose, conveyor belting, etc.) excluding tires, tubes, and gaskets	2002.. X	10
		1997.. X	269
32799217	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	2002.. X	D
		1997.. X	D

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212113	Anthracite mining—Con.		
	Supplies consumed by type—Con.		
33120049	Steel shapes and forms (excluding castings, forgings, and wire products) 2002..	X	102
	1997..	X	1 099
33100085	Nonferrous metal wire including trolley wire 2002..	X	D
	1997..	X	D
33290007	Wire rope, cable, springs, and other fabricated wire products (excluding wire) 2002..	X	D
	1997..	X	121
33300005	Drill bits and reamers 2002..	X	38
	1997..	X	144
00970098	All other supplies 2002..	X	4 287
	1997..	X	5 991
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	20 668
	1997..	X	6 965
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl. 2002..	S	409
	1997..	103.2	3 003
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl. 2002..	D	D
	1997..	34.9	1 190
32411015	Gasoline used as a fuel mil gal. 2002..	D	D
	1997..	.3	342
00974000	Undistributed fuels 2002..	X	1 037
	1997..	X	D
212210	Iron ore mining		
	Supplies consumed by type		
21221001	Crude iron ore, received for concentration mil metric tons (wet basis) 2002..	D	D
	1997..	D	D
21221003	Crude iron ore, produced and concentrated at same establishment mil metric tons (wet basis) 2002..	164.3	X
	1997..	196.8	X
21221007	Iron ore concentrates, produced and agglomerated at same establishment. mil metric tons (dry basis) 2002..	46.9	X
	1997..	61.0	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	D
	1997..	X	51 661
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	D
	1997..	X	126 611
21232009	Bentonite and other clay nonmetallic minerals 2002..	X	D
	1997..	X	34 043
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	D
	1997..	X	32 366
32592005	Ammonium nitrate 2002..	X	D
	1997..	X	18 725
32621001	Tires and inner tubes 2002..	X	D
	1997..	X	D
33151003	Iron and steel castings 2002..	X	6 664
	1997..	X	61 144
33211101	Iron and steel forgings 2002..	X	D
	1997..	X	36 998
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	3 382
	1997..	X	D
00970098	All other supplies 2002..	X	134 041
	1997..	X	104 590
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	7 064
	1997..	X	2 521
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons. 2002..	81.0	3 815
	1997..	D	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl. 2002..	597.7	23 886
	1997..	910.7	24 505
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl. 2002..	D	D
	1997..	—	—
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft. 2002..	22.1	72 998
	1997..	34.3	80 835
32411015	Gasoline used as a fuel mil gal. 2002..	D	D
	1997..	1.4	1 296
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	4 597
	1997..	X	5 340
00974000	Undistributed fuels 2002..	X	1 561
	1997..	X	D
212221	Gold ore mining		
	Supplies consumed by type		
21220001	Crude ore and residues, received for concentration mil metric tons 2002..	D	D
	1997..	D	D
21220003	Crude ore and residues, mined and concentrated at same establishment mil metric tons 2002..	112.1	X
	1997..	275.2	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	275 674
	1997..	X	592 481
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	196 135
	1997..	X	285 324
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	88 106
	1997..	X	174 042

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212221	Gold ore mining—Con.		
	Supplies consumed by type—Con.		
32592001	Explosive materials (including ammonium nitrate) and blasting accessories	2002.. X	39 975
	.....	1997.. X	86 402
32621001	Tires and inner tubes	2002.. X	27 482
	.....	1997.. X	76 204
32741001	Lime	2002.. X	51 404
	.....	1997.. X	48 577
33151003	Iron and steel castings	2002.. D	D
	.....	1997.. X	24 074
33211101	Iron and steel forgings	2002.. X	943
	.....	1997.. X	13 453
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X	D
	.....	1997.. X	38 252
00970098	All other supplies	2002.. X	156 263
	.....	1997.. X	208 700
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X	68 173
	.....	1997.. X	D
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel	1,000 s tons.. 2002.. D	D
	.....	1997.. D	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl.. 2002.. 91 914.7	79 253
	.....	1997.. 3 130.5	103 489
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft.. 2002.. D	D
	.....	1997.. D	D
32411015	Gasoline used as a fuel	mil gal.. 2002.. D	D
	.....	1997.. 13.1	14 297
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X	D
	.....	1997.. X	22 411
00974000	Undistributed fuels	2002.. X	11 654
	.....	1997.. X	6 567
212222	Silver ore mining		
	Supplies consumed by type		
21220003	Crude ore and residues, mined and concentrated at same establishment	mil metric tons.. 2002.. D	X
	.....	1997.. D	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X	D
	.....	1997.. X	3 203
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X	D
	.....	1997.. X	6 582
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories	2002.. X	D
	.....	1997.. X	6 341
32592001	Explosive materials (including ammonium nitrate) and blasting accessories	2002.. X	D
	.....	1997.. X	2 773
32621001	Tires and inner tubes	2002.. X	D
	.....	1997.. X	D
32741001	Lime	2002.. X	D
	.....	1997.. X	1 406
33151003	Iron and steel castings	2002.. X	D
	.....	1997.. X	D
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X	D
	.....	1997.. X	1 798
00970098	All other supplies	2002.. X	D
	.....	1997.. X	D
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X	1 583
	.....	1997.. X	496
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl.. 2002.. D	D
	.....	1997.. D	D
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl.. 2002.. D	D
	.....	1997.. D	D
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft.. 2002.. D	D
	.....	1997.. D	D
32411015	Gasoline used as a fuel	mil gal.. 2002.. D	D
	.....	1997.. .1	154
00974000	Undistributed fuels	2002.. X	157
	.....	1997.. X	D
212231	Lead ore and zinc ore mining		
	Supplies consumed by type		
21220001	Crude ore and residues, received for concentration	mil metric tons.. 2002.. D	D
	.....	1997.. D	D
21220003	Crude ore and residues, mined and concentrated at same establishment	mil metric tons.. 2002.. D	X
	.....	1997.. 10.4	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X	D
	.....	1997.. X	66 583
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X	D
	.....	1997.. X	30 336
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories	2002.. X	D
	1997.. X	8 407

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NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212231	Lead ore and zinc ore mining—Con.		
	Supplies consumed by type—Con.		
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	D
	1997..	X	8 581
32621001	Tires and inner tubes 2002..	X	D
	1997..	X	3 563
32741001	Lime 2002..	X	D
	1997..	X	D
33151003	Iron and steel castings 2002..	X	D
	1997..	X	D
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	D
	1997..	X	1 883
00970098	All other supplies 2002..	X	7 881
	1997..	X	16 855
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	51 511
	1997..	X	440
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
	1997..	D	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	D	D
	1997..	D	D
32411015	Gasoline used as a fuel mil gal 2002..	D	D
	1997..	.1	91
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
	1997..	X	D
00974000	Undistributed fuels 2002..	X	4 044
	1997..	X	94
212234	Copper ore and nickel ore mining		
	Supplies consumed by type		
21220001	Crude ore and residues, received for concentration mil metric tons 2002..	D	D
	1997..	77.7	212 140
21220003	Crude ore and residues, mined and concentrated at same establishment mil metric tons 2002..	D	X
	1997..	652.6	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	D
	1997..	X	277 435
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	186 699
	1997..	X	284 288
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	89 384
	1997..	X	99 791
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	36 512
	1997..	X	52 293
32621001	Tires and inner tubes 2002..	X	32 180
	1997..	X	74 746
32741001	Lime 2002..	X	7 871
	1997..	X	23 778
33151003	Iron and steel castings 2002..	X	D
	1997..	X	48 084
33211011	Iron and steel forgings 2002..	X	D
	1997..	X	17 029
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	22 521
	1997..	X	47 064
00970098	All other supplies 2002..	X	D
	1997..	X	195 059
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	4 411
	1997..	X	1 873
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	P1 631.2	58 770
	1997..	3 057.9	95 634
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	D	D
	1997..	D	D
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	D	D
	1997..	1.8	4 085
32411015	Gasoline used as a fuel mil gal 2002..	D	D
	1997..	3.1	3 307
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
	1997..	X	357
00974000	Undistributed fuels 2002..	X	386
	1997..	X	D
212291	Uranium-radium-vanadium ore mining		
	Supplies consumed by type		
21220005	Ores and concentrates, received for treatment mil metric tons (dry basis) 2002..	D	D
	1997..	D	D
21220007	Ores and concentrates, mined and treated at the same establishment mil metric tons (dry basis) 2002..	—	X
	1997..	—	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	1 818
	1997..	X	8 962
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	4 472
	1997..	X	5 708
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	D
	1997..	X	4 931
00970098	All other supplies 2002..	X	7 050
	1997..	X	5 896
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	2 207
	1997..	X	3 748

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NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212291	Uranium-radium-vanadium ore mining—Con.		
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	D	D
		1.5	59
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	D	D
		.3	834
32411015	Gasoline used as a fuel mil gal 2002..	D	D
		.1	153
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	159
		X	135
00974000	Undistributed fuels 2002..	X	740
		X	661
212299	All other metal ore mining		
	Supplies consumed by type		
21220005	Ores and concentrates, received for treatment mil metric tons (dry basis) 2002..	.1	4 308
		Z	7 926
21220007	Ores and concentrates, mined and treated at the same establishment mil metric tons (dry basis) 2002..	11.0	X
		30.0	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	8 259
		X	33 602
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	40 927
		X	45 455
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	13 684
		X	21 468
32592005	Ammonium nitrate 2002..	X	D
		X	4 062
32621001	Tires and inner tubes 2002..	X	D
		X	2 796
33151003	Iron and steel castings 2002..	X	D
		X	8 390
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	D
		X	D
00970098	All other supplies 2002..	X	49 686
		X	18 139
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	3 242
		X	2 464
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
		—	—
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	S	2 366
		123.0	4 081
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	83.3	2 156
		171.2	3 899
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	q.5	1 322
		.5	1 129
32411015	Gasoline used as a fuel mil gal 2002..	q.7	859
		.4	423
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
		X	666
00974000	Undistributed fuels 2002..	X	913
		X	586
212311	Dimension stone mining and quarrying		
	Supplies consumed by type		
21231100	Rough blocks, used to produce dressed stone 1,000 s tons 2002..	S	11 292
		6.0	209
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.) mil s tons 2002..	D	D
		—	—
21232001	Sand and gravel, received for preparation mil s tons 2002..	D	D
		—	—
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	4 372
		X	2 925
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	2 490
		X	676
32592003	Explosive materials, excluding ammonium nitrate 2002..	X	2 027
		X	259
32592005	Ammonium nitrate 2002..	X	D
		X	—
32592007	Blasting accessories 2002..	X	305
		X	39
32600007	Rubber and plastics products, including tires and tubes 2002..	X	512
		X	162
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	448
		X	36
00970098	All other supplies 2002..	X	3 384
		X	3 477
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	18 040
		X	11 163
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	S	1 572
		27.5	972
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	S	429
		6.0	176
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	D	D
		Z	16
32411015	Gasoline used as a fuel mil gal 2002..	p1.0	1 213

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212311	Dimension stone mining and quarrying—Con. Fuels consumed by type—Con.		
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	1997.. .3 2002.. X	352 D
00974000	Undistributed fuels	1997.. X 2002.. X 1997.. X	32 3 046 2 207
212312	Crushed and broken limestone mining and quarrying Supplies consumed by type		
21231100	Rough blocks, used to produce dressed stone	1,000 s tons ..2002.. S 1997.. D	9 051 D
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.)	mil s tons ..2002.. 16.1 1997.. 16.3	61 260 48 488
21232001	Sand and gravel, received for preparation	mil s tons ..2002.. 43.6 1997.. D	13 831 D
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	253 581 268 723
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X 1997.. X	173 265 199 677
32592003	Explosive materials, excluding ammonium nitrate	2002.. X 1997.. X	69 141 81 648
32592005	Ammonium nitrate	2002.. X 1997.. X	21 382 26 459
32592007	Blasting accessories	2002.. X 1997.. X	11 432 9 022
32600007	Rubber and plastics products, including tires and tubes	2002.. X 1997.. X	22 497 31 225
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X 1997.. X	13 201 11 569
00970098	All other supplies	2002.. X 1997.. X	112 701 145 571
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X 1997.. X	361 411 243 149
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel	1,000 s tons ..2002.. D 1997.. 43.0	D 1 569
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl ..2002.. S 1997.. 2 312.4	80 318 75 817
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl ..2002.. 240.4 1997.. 308.4	8 807 8 896
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft ..2002.. D 1997.. 2.3	D 6 595
32411015	Gasoline used as a fuel	mil gal ..2002.. S 1997.. 11.3	12 384 12 149
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X 1997.. X	3 742 2 458
00974000	Undistributed fuels	2002.. X 1997.. X	63 825 56 418
212313	Crushed and broken granite mining and quarrying Supplies consumed by type		
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.)	mil s tons ..2002.. .8 1997.. D	4 697 D
21232001	Sand and gravel, received for preparation	mil s tons ..2002.. S 1997.. D	98 D
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	101 879 164 804
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X 1997.. X	76 931 101 298
32592003	Explosive materials, excluding ammonium nitrate	2002.. X 1997.. X	19 917 27 249
32592005	Ammonium nitrate	2002.. X 1997.. X	2 199 4 930
32592007	Blasting accessories	2002.. X 1997.. X	3 230 3 854
32600007	Rubber and plastics products, including tires and tubes	2002.. X 1997.. X	12 226 13 541
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X 1997.. X	19 916 16 577
00970098	All other supplies	2002.. X 1997.. X	89 158 52 883
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X 1997.. X	84 075 33 373
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl ..2002.. S 1997.. 692.7	21 146 20 387
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl ..2002.. 50.4 1997.. 170.9	1 920 4 706
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft ..2002.. D 1997.. D	D D
32411015	Gasoline used as a fuel	mil gal ..2002.. D 1997.. 1.9	D 1 971
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X 1997.. X	5 355 D
00974000	Undistributed fuels	2002.. X 1997.. X	11 127 6 003

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212319	Other crushed and broken stone mining and quarrying		
	Supplies consumed by type		
21231100	Rough blocks, used to produce dressed stone 1,000 s tons 2002..	D	D
	1997..	—	—
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.) mil s tons 2002..	S	11 289
	1997..	3.4	11 580
21232001	Sand and gravel, received for preparation mil s tons 2002..	42.0	8 272
	1997..	3.1	8 723
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	42 783
	1997..	X	47 348
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	34 284
	1997..	X	52 560
32592003	Explosive materials, excluding ammonium nitrate 2002..	X	9 006
	1997..	X	9 475
32592005	Ammonium nitrate 2002..	X	1 001
	1997..	X	5 826
32592007	Blasting accessories 2002..	X	D
	1997..	X	2 141
32600007	Rubber and plastics products, including tires and tubes 2002..	X	3 548
	1997..	X	6 102
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	6 872
	1997..	X	5 602
00970098	All other supplies 2002..	X	21 683
	1997..	X	30 908
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	109 082
	1997..	X	95 780
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
	1997..	—	—
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	4491.3	18 121
	1997..	468.4	15 887
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	S	2 175
	1997..	60.3	1 685
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	S	7 464
	1997..	1.8	5 851
32411015	Gasoline used as a fuel mil gal 2002..	D	D
	1997..	1.5	1 583
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	858
	1997..	X	174
00974000	Undistributed fuels 2002..	X	16 671
	1997..	X	20 770
212321	Construction sand and gravel mining		
	Supplies consumed by type		
21231100	Rough blocks, used to produce dressed stone 1,000 s tons 2002..	D	D
	1997..	—	—
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.) mil s tons 2002..	S	21 552
	1997..	4.0	7 521
21232001	Sand and gravel, received for preparation mil s tons 2002..	443.9	178 208
	1997..	29.4	73 467
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	110 935
	1997..	X	133 049
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	111 934
	1997..	X	102 407
32592003	Explosive materials, excluding ammonium nitrate 2002..	X	4 503
	1997..	X	2 306
32592005	Ammonium nitrate 2002..	X	D
	1997..	X	339
32592007	Blasting accessories 2002..	X	345
	1997..	X	242
32600007	Rubber and plastics products, including tires and tubes 2002..	X	6 684
	1997..	X	7 947
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	8 609
	1997..	X	6 945
00970098	All other supplies 2002..	X	43 058
	1997..	X	60 112
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	330 534
	1997..	X	349 035
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	91 078.4	45 712
	1997..	1 403.8	48 795
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	S	8 019
	1997..	315.1	9 652
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	S	2 266
	1997..	1.4	3 759
32411015	Gasoline used as a fuel mil gal 2002..	96.1	7 337
	1997..	5.7	6 044
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	2 127
	1997..	X	D
00974000	Undistributed fuels 2002..	X	83 479
	1997..	X	96 872
212322	Industrial sand mining		

See footnotes at end of table.

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NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212322	Industrial sand mining—Con.		
	Supplies consumed by type		
21231005	Broken stone, received for preparation (crushing, screening, washing, etc.) mil s tons 2002..	S	3 802
		D	D
21232001	Sand and gravel, received for preparation mil s tons 2002..	1.5	6 680
		1997..	4 943
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	15 890
		1997..	24 632
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	23 735
		1997..	24 619
32592003	Explosive materials, excluding ammonium nitrate 2002..	X	D
		1997..	1 411
32592005	Ammonium nitrate 2002..	X	1 465
		1997..	D
32592007	Blasting accessories 2002..	X	D
		1997..	129
32600007	Rubber and plastics products, including tires and tubes 2002..	X	1 412
		1997..	636
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	3 218
		1997..	1 541
00970098	All other supplies 2002..	X	27 016
		1997..	28 570
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	10 439
		1997..	13 569
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
		1997..	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	134.4	5 492
		1997..	2 797
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	S	1 457
		1997..	824
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	15.2	17 901
		1997..	17 103
32411015	Gasoline used as a fuel mil gal 2002..	6.4	D
		1997..	D
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	2 470
		1997..	1 235
00974000	Undistributed fuels 2002..	X	4 728
		1997..	3 542
212324	Kaolin and ball clay mining		
	Supplies consumed by type		
21232013	Crude clay, ceramic, and refractory minerals, received for preparation 2002..	X	D
		1997..	3 468
21232015	Crude clay, ceramic, and refractory minerals, mined and prepared at same establishment 1,000 metric tons 2002..	12 993.8	X
		1997..	9 027.3
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	D
		1997..	55 456
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	38 073
		1997..	27 366
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	59 114
		1997..	68 189
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	D
		1997..	D
00970098	All other supplies 2002..	X	45 341
		1997..	49 718
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	14 051
		1997..	D
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
		1997..	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	D	D
		1997..	D
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	D	D
		1997..	D
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	13.2	46 745
		1997..	43 932
32411015	Gasoline used as a fuel mil gal 2002..	.3	344
		1997..	805
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	548
		1997..	582
00974000	Undistributed fuels 2002..	X	5 319
		1997..	2 403
212325	Clay and ceramic and refractory minerals mining		
	Supplies consumed by type		
21232013	Crude clay, ceramic, and refractory minerals, received for preparation 2002..	X	D
		1997..	D
21232015	Crude clay, ceramic, and refractory minerals, mined and prepared at same establishment 1,000 metric tons 2002..	4 344.4	X
		1997..	12 353.7
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	7 654
		1997..	33 281
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	18 654
		1997..	22 820

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

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NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212325	Clay and ceramic and refractory minerals mining—Con.		
	Supplies consumed by type—Con.		
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	14 605
	1997..	X	16 136
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	D
	1997..	X	D
00970098	All other supplies 2002..	X	30 379
	1997..	X	44 106
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	100 818
	1997..	X	18 403
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	182.8	7 079
	1997..	241.3	6 897
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	S	5 439
	1997..	207.4	4 696
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	D	D
	1997..	68.6	1 333
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	S	14 920
	1997..	7.0	20 077
32411015	Gasoline used as a fuel mil gal 2002..	S	1 785
	1997..	.4	427
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
	1997..	X	1 064
00974000	Undistributed fuels 2002..	X	9 803
	1997..	X	4 194
212391	Potash, soda, and borate mineral mining		
	Supplies consumed by type		
21239003	Crude minerals, received for preparation mil metric tons (dry basis) 2002..	D	D
	1997..	D	D
21239005	Crude minerals, mined and prepared at same establishment mil metric tons (dry basis) 2002..	D	X
	1997..	35.6	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	36 047
	1997..	X	69 009
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	36 392
	1997..	X	67 167
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	22 690
	1997..	X	93 749
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	D
	1997..	X	2 765
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	4 067
	1997..	X	4 543
00970098	All other supplies 2002..	X	54 458
	1997..	X	45 168
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	24 698
	1997..	X	D
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
	1997..	1 712.2	43 827
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	D	D
	1997..	D	D
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	S	77 333
	1997..	25.2	51 901
32411015	Gasoline used as a fuel mil gal 2002..	D	D
	1997..	.3	322
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
	1997..	X	D
00974000	Undistributed fuels 2002..	X	11 422
	1997..	X	D
212392	Phosphate rock mining		
	Supplies consumed by type		
21239003	Crude minerals, received for preparation mil metric tons (dry basis) 2002..	D	D
	1997..	-	-
21239005	Crude minerals, mined and prepared at same establishment mil metric tons (dry basis) 2002..	130.8	X
	1997..	157.6	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	46 479
	1997..	X	98 240
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	93 063
	1997..	X	104 313
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	54 388
	1997..	X	33 257
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	D
	1997..	X	D
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	D
	1997..	X	D
00970098	All other supplies 2002..	X	20 279
	1997..	X	49 898
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	611
	1997..	X	325

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

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NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
212392	Phosphate rock mining—Con.		
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	D	D
		1997..	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	231.3	8 391
		1997..	10 305
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	D	D
		1997..	2 391
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	S	1 077
		1997..	2 202
32411015	Gasoline used as a fuel mil gal 2002..	D	D
		1997..	1 520
00974000	Undistributed fuels 2002..	X	2 825
		1997..	D
212393	Other chemical and fertilizer mineral mining		
	Supplies consumed by type		
21239003	Crude minerals, received for preparation mil metric tons (dry basis) 2002..	S	1 919
		1997..	D
21239005	Crude minerals, mined and prepared at same establishment mil metric tons (dry basis) 2002..	15.0	X
		1997..	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	26 177
		1997..	9 404
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	26 234
		1997..	11 615
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	2 730
		1997..	D
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	7 161
		1997..	3 932
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	381
		1997..	D
00970098	All other supplies 2002..	X	18 713
		1997..	16 469
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	10 725
		1997..	D
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	56.2	2 150
		1997..	D
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	D	D
		1997..	D
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	4	1 350
		1997..	D
32411015	Gasoline used as a fuel mil gal 2002..	D	D
		1997..	D
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	D
		1997..	D
00974000	Undistributed fuels 2002..	X	2 058
		1997..	D
212399	All other nonmetallic mineral mining		
	Supplies consumed by type		
21239003	Crude minerals, received for preparation mil metric tons (dry basis) 2002..	S	13 666
		1997..	3 132
21239005	Crude minerals, mined and prepared at same establishment mil metric tons (dry basis) 2002..	6.9	X
		1997..	X
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation 2002..	X	51 032
		1997..	75 478
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment 2002..	X	14 272
		1997..	19 059
32500073	Industrial chemicals (chemical reagents, calcium chloride, etc.) excluding explosive materials and blasting accessories 2002..	X	12 175
		1997..	4 642
32592001	Explosive materials (including ammonium nitrate) and blasting accessories 2002..	X	2 129
		1997..	1 465
33120059	Steel shapes and forms (excluding castings and forgings) 2002..	X	1 974
		1997..	877
00970098	All other supplies 2002..	X	36 511
		1997..	52 731
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used 2002..	X	19 339
		1997..	27 612
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel 1,000 s tons 2002..	S	361
		1997..	D
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel 1,000 bbl 2002..	S	5 473
		1997..	6 116
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel 1,000 bbl 2002..	S	1 023
		1997..	1 199
21111015	Gas (natural, manufactured, and mixed) used as a fuel bil cu ft 2002..	6.2	18 317
		1997..	10 795
32411015	Gasoline used as a fuel mil gal 2002..	S	904
		1997..	1 299
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	941
		1997..	D
00974000	Undistributed fuels 2002..	X	4 674
		1997..	7 189

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
213111	Drilling oil and gas wells		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	946 141 1 920 176
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X 1997.. X	209 366 189 155
32500075	Industrial chemicals (including acidizing materials), excluding drilling fluids	2002.. X 1997.. X	7 546 7 498
32592001	Explosive materials (including ammonium nitrate) and blasting accessories	2002.. X 1997.. X	259 2 613
32599803	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	2002.. X 1997.. X	56 944 54 745
32419100	Lubricating oils and greases (including hydraulic oils)	2002.. X 1997.. X	25 743 28 330
32731001	Cement	2002.. X 1997.. X	23 669 22 868
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X 1997.. X	207 650 139 420
33300005	Drill bits and reamers	2002.. X 1997.. X	64 019 80 074
33451900	Measuring and controlling instruments and devices (seismometers, surveying and plotting instruments, etc.)	2002.. X 1997.. X	168 133 56 463
00970098	All other supplies	2002.. X 1997.. X	371 396 219 423
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X 1997.. X	211 383 288 331
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl. 2002.. 91 144.2 1997.. 3 355.3	49 780 107 442
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl. 2002.. S 1997.. S	7 278 51 921
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft. 2002.. S 1997.. .6	313 1 184
32411015	Gasoline used as a fuel	mil gal. 2002.. S 1997.. 26.0	12 855 26 348
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X 1997.. X	9 543 2 410
00974000	Undistributed fuels	2002.. X 1997.. X	87 421 60 739
213112	Support activities for oil and gas operations		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	2002.. X 1997.. X	239 450 391 680
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	2002.. X 1997.. X	139 845 130 015
32500075	Industrial chemicals (including acidizing materials), excluding drilling fluids	2002.. X 1997.. X	18 984 276 282
32592001	Explosive materials (including ammonium nitrate) and blasting accessories	2002.. X 1997.. X	25 527 25 667
32599803	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	2002.. X 1997.. X	14 989 4 465
32419100	Lubricating oils and greases (including hydraulic oils)	2002.. X 1997.. X	10 228 18 513
32731001	Cement	2002.. X 1997.. X	13 720 158 002
33120059	Steel shapes and forms (excluding castings and forgings)	2002.. X 1997.. X	58 187 85 157
33300005	Drill bits and reamers	2002.. X 1997.. X	2 916 1 977
33451900	Measuring and controlling instruments and devices (seismometers, surveying and plotting instruments, etc.)	2002.. X 1997.. X	4 040 10 136
00970098	All other supplies	2002.. X 1997.. X	379 741 438 536
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used	2002.. X 1997.. X	649 476 473 902
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel	1,000 bbl. 2002.. S 1997.. 1 424.8	31 017 52 028
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel	1,000 bbl. 2002.. D 1997.. 1 032.1	D 24 203
21111015	Gas (natural, manufactured, and mixed) used as a fuel	bil cu ft. 2002.. D 1997.. 1.4	D 2 662
32411015	Gasoline used as a fuel	mil gal. 2002.. S 1997.. 37.6	63 468 59 115
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)	2002.. X 1997.. X	18 991 8 954
00974000	Undistributed fuels	2002.. X 1997.. X	59 212 133 204
213113	Support activities for coal mining		

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
213113	Support activities for coal mining—Con.		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation		
	2002..	X	28 998
	1997..	X	16 282
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment		
	2002..	X	43 864
	1997..	X	24 556
32592005	Ammonium nitrate		
	2002..	X	7 962
	1997..	X	3 789
32592013	Explosive materials (excluding ammonium nitrate) and blasting accessories		
	2002..	X	11 084
	1997..	X	5 837
33120059	Steel shapes and forms (excluding castings and forgings)		
	2002..	X	5 393
	1997..	X	4 759
00970098	All other supplies		
	2002..	X	70 784
	1997..	X	19 235
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used		
	2002..	X	6 651
	1997..	X	45 724
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel		
	1,000 s tons 2002..	D	D
	1997..	—	—
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel		
	1,000 bbl 2002..	D	D
	1997..	166.4	5 583
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel		
	1,000 bbl 2002..	157.6	6 503
	1997..	47.8	1 327
21111015	Gas (natural, manufactured, and mixed) used as a fuel		
	bil cu ft 2002..	S	96
	1997..	D	D
32411015	Gasoline used as a fuel		
	mil gal 2002..	S	4 108
	1997..	.9	990
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)		
	2002..	X	804
	1997..	X	D
00974000	Undistributed fuels		
	2002..	X	8 526
	1997..	X	D
213114	Support activities for metal mining		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation		
	2002..	X	6 898
	1997..	X	11 514
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment		
	2002..	X	3 229
	1997..	X	18 648
32592005	Ammonium nitrate		
	2002..	X	D
	1997..	X	D
32592013	Explosive materials (excluding ammonium nitrate) and blasting accessories		
	2002..	X	504
	1997..	X	D
33120059	Steel shapes and forms (excluding castings and forgings)		
	2002..	X	D
	1997..	X	6 963
00970098	All other supplies		
	2002..	X	41 615
	1997..	X	D
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used		
	2002..	X	28 628
	1997..	X	19 175
	Fuels consumed by type		
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel		
	1,000 bbl 2002..	S	658
	1997..	113.9	3 988
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel		
	1,000 bbl 2002..	D	D
	1997..	—	—
21111015	Gas (natural, manufactured, and mixed) used as a fuel		
	bil cu ft 2002..	Z	44
	1997..	D	D
32411015	Gasoline used as a fuel		
	mil gal 2002..	S	620
	1997..	1.8	2 169
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.)		
	2002..	X	D
	1997..	X	D
00974000	Undistributed fuels		
	2002..	X	7 040
	1997..	X	D
213115	Support activities for nonmetallic minerals (except fuels) mining		
	Supplies consumed by type		
33300007	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation		
	2002..	X	7 343
	1997..	X	8 519
33300009	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment		
	2002..	X	17 537
	1997..	X	8 620
32592013	Explosive materials (excluding ammonium nitrate) and blasting accessories		
	2002..	X	460
	1997..	X	2 199
33120059	Steel shapes and forms (excluding castings and forgings)		
	2002..	X	2 020
	1997..	X	627
00970098	All other supplies		
	2002..	X	25 140
	1997..	X	5 793
00973000	Undistributed minerals, purchased machinery, parts, attachments, and supplies used		
	2002..	X	82 025
	1997..	X	18 970
	Fuels consumed by type		
21211003	Coal (bituminous, subbituminous, lignite, and anthracite) consumed as a fuel		
	1,000 s tons 2002..	D	D
	1997..	—	—
32411017	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel used as a fuel		
	1,000 bbl 2002..	S	11 798
	1997..	127.4	4 465
32411019	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel used as a fuel		
	1,000 bbl 2002..	D	D
	1997..	33.0	972
21111015	Gas (natural, manufactured, and mixed) used as a fuel		
	bil cu ft 2002..	P,4	1 457
	1997..	D	D

See footnotes at end of table.

Table 1. Selected Supplies, Minerals Received for Preparation, Purchased Machinery, and Fuels Consumed by Type by Industry: 2002 and 1997—Con.

[Includes quantity and cost of supplies and fuels consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and supply or fuel code	Industry and supply or fuel consumed	Quantity	Delivered cost (\$1,000)
213115	Support activities for nonmetallic minerals (except fuels) mining—Con.		
	Fuels consumed by type—Con.		
32411015	Gasoline used as a fuel mil gal. 2002..	9.6	735
	. . . . . 1997..	.7	786
00960018	Other fuels (liquefied petroleum gas, coke, wood, etc.) 2002..	X	287
	. . . . . 1997..	X	D
00974000	Undistributed fuels 2002..	X	16 970
	. . . . . 1997..	X	4 339

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

COST OF SUPPLIES

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these items. It includes the cost of these items whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year. Included are items charged to both current and capital accounts.

Included in this item are:

1. Costs of supplies used, minerals received for preparation, and purchased machinery installed. Includes all major supplies that were important parts of the cost of production, exploration, and development of a particular industry. Also included are all new and used machinery, equipment, and parts installed whether purchased or received from other establishments of the same company.
2. Cost of products bought and sold in the same condition.
3. Cost of purchased fuels consumed for heat, power, or the generation of electricity. Includes the cost of fuels consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. Cost of purchased electricity. The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy purchased and also the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other establishments of the same company.
5. Cost of contract work. This term applies to the cost of all work done for an establishment by others. It includes payments for supplies and equipment furnished by the contractor incidental to the contract work, and cost of services performed by others in the operation or development of the establishment. The term "Contract Work" refers to the fee a company pays to another company to perform a service. It excludes payments to miners paid on a per ton, car, yard, or footage basis. Also excluded are payments to suppliers who mined for their own account on property owned or leased by them and who paid royalties either directly or indirectly on the minerals mined.

Specific supplies used, minerals received for preparation, and purchased machinery installed

In addition to the total cost of supplies, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of the major supplies used in mining. The inquiries were restricted to those supplies that were important parts of the cost of production, exploration, and development in a particular industry and for which cost information was available from the establishment's records. Except for the crude petroleum and natural gas and the support activities for mining industries, figures were also obtained on crude minerals mined at the establishment, received from other establishments of the company or purchased from others, and received for preparation on a custom or toll basis. If less than \$25,000 of a listed supply was consumed by an establishment, the cost data could be reported in

the “All other supplies,” census supply code 00970098. Also, the cost of supplies for small establishments for which administrative records or short forms were used was imputed into the “Undistributed – minerals, purchased machinery, parts.....,” census supply code 00973000.

Specific fuels consumed

For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and a cost figure for other fuels. Data also were obtained on the quantity of crude petroleum, natural gas, and coal produced and consumed at the same establishment for heat and power. The cost of fuels for small establishments for which administrative records or short forms were used was imputed into the “Undistributed fuels,” census fuel code 00974000.

Appendix B.

NAICS Codes, Titles, and Descriptions

211111 CRUDE PETROLEUM AND NATURAL GAS EXTRACTION

This U.S. industry group comprises establishments primarily engaged in the following:

1. the exploration, development, and/or the production of petroleum or natural gas from wells in which the hydrocarbons will initially flow or can be produced using normal pumping techniques or
2. the production of crude petroleum from surface shales or tar sands or from reservoirs in which the hydrocarbons are semisolids.

Establishments in this industry operate oil and gas wells on their own account or for others on a contract or fee basis.

211112 NATURAL GAS LIQUID EXTRACTION

This U.S. industry comprises establishments primarily engaged in the recovery of liquid hydrocarbons from oil and gas field gases. Establishments primarily engaged in sulfur recovery from natural gas are included in this industry.

212111 BITUMINOUS COAL AND LIGNITE SURFACE MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. surface mining of bituminous coal and lignite;
2. developing bituminous coal and lignite surface mine sites;
3. surface mining and beneficiating (e.g., cleaning, washing, screening, and sizing coal) of bituminous coal; or
4. beneficiating (e.g., cleaning, washing, screening, and sizing coal), but not mining, bituminous coal.

212112 BITUMINOUS COAL UNDERGROUND MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. underground mining of bituminous coal;
2. developing bituminous coal underground mine sites; and
3. underground mining and beneficiating of bituminous coal (e.g., cleaning, washing, screening, and sizing coal).

212113 ANTHRACITE MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. mining anthracite coal;
2. developing anthracite coal mine sites; and
3. beneficiating anthracite coal (e.g., cleaning, washing, screening, and sizing coal).

212210 IRON ORE MINING

This U.S. industry comprises establishments primarily engaged in:

1. developing mine sites, mining, and/or beneficiating (i.e., preparing) iron ores and manganiferous ores valued chiefly for their iron content and/or
2. producing sinter iron ore (except iron ore produced in iron and steel mills) and other iron ore agglomerates.

212221 GOLD ORE MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, and/or beneficiating (i.e., preparing) ores valued chiefly for their gold content. Establishments primarily engaged in transformation of the gold into bullion or dore bar in combination with mining activities are included in this industry.

212222 SILVER ORE MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, and/or beneficiating (i.e., preparing) ores valued chiefly for their silver content. Establishments primarily engaged in transformation of the silver into bullion or dore bar in combination with mining activities are included in this industry.

212231 LEAD ORE AND ZINC ORE MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, and/or beneficiating (i.e., preparing) lead ores, zinc ores, or lead-zinc ores.

212234 COPPER ORE AND NICKEL ORE MINING

This U.S. industry comprises establishments primarily engaged in:

1. developing the mine site, mining, and/or beneficiating (i.e., preparing) copper and/or nickel ores; and
2. recovering copper concentrates by the precipitation, leaching, or electrowinning of copper ore.

212291 URANIUM-RADIUM-VANADIUM ORE MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, and/or beneficiating (i.e., preparing) uranium-radium-vanadium ores.

212299 ALL OTHER METAL ORE MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, and/or beneficiating (i.e., preparing) metal ores (except iron and manganiferous ores valued for their iron content, gold ore, silver ore, copper, nickel, lead, zinc, and uranium-radium-vanadium ore).

212311 DIMENSION STONE MINING AND QUARRYING

This U.S. industry comprises establishments primarily engaged in developing the mine site and/or mining or quarrying dimension stone (i.e., rough blocks and/or slabs of stone).

212312 CRUSHED AND BROKEN LIMESTONE MINING AND QUARRYING

This U.S. industry comprises establishments primarily engaged in:

1. developing the mine site, mining or quarrying crushed and broken limestone (including related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa); and
2. beneficiating limestone (e.g., grinding or pulverizing).

212313 CRUSHED AND BROKEN GRANITE MINING AND QUARRYING

This U.S. industry comprises establishments primarily engaged in:

1. developing the mine site, and/or mining or quarrying crushed and broken granite (including related rocks, such as gneiss, syenite, and diorite); and
2. beneficiating granite (e.g., grinding or pulverizing).

212319 OTHER CRUSHED AND BROKEN STONE MINING AND QUARRYING

This U.S. industry comprises establishments primarily engaged in the following:

1. developing the mine site and/or mining or quarrying crushed and broken stone (except limestone and granite);
2. beneficiating (e.g., grinding and pulverizing) stone (except limestone and granite); and
3. mining or quarrying bituminous limestone and bituminous sandstone.

212321 CONSTRUCTION SAND AND GRAVEL MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. operating commercial grade (i.e., construction) sand and gravel pits;
2. dredging for commercial grade sand and gravel; and
3. washing, screening, or otherwise preparing commercial grade sand and gravel.

212322 INDUSTRIAL SAND MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. operating industrial grade sand pits;
2. dredging for industrial grade sand;
3. washing, screening, or otherwise preparing industrial grade sand.

212324 KAOLIN AND BALL CLAY MINING

This U.S. industry comprises establishments primarily engaged in:

1. developing the mine site and/or mining kaolin or ball clay (e.g., china clay, paper clay, and slip clay) and
2. beneficiating (i.e., preparing) kaolin or ball clay.

212325 CLAY AND CERAMIC AND REFRACTORY MINERALS MINING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. mining clay (except kaolin and ball), ceramic, or refractory minerals;
2. developing the mine site for clay, ceramic, or refractory minerals; and
3. beneficiating (i.e., preparing) clay (except kaolin and ball), ceramic, or refractory minerals.

212391 POTASH, SODA, AND BORATE MINERAL MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining and/or milling, or otherwise beneficiating (i.e., preparing) natural potassium, sodium, or boron compounds. Drylake brine operations are included in this industry, as well as establishments engaged in producing the specified minerals from underground and open pit mines.

212392 PHOSPHATE ROCK MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, milling, and/or drying or otherwise beneficiating (i.e., preparing) phosphate rock.

212393 OTHER CHEMICAL AND FERTILIZER MINERAL MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining, milling, and/or drying or otherwise beneficiating (i.e., preparing) chemical or fertilizer mineral raw materials (except potash, soda, boron, and phosphate rock).

212399 ALL OTHER NONMETALLIC MINERAL MINING

This U.S. industry comprises establishments primarily engaged in developing the mine site, mining and/or milling, or otherwise beneficiating (i.e., preparing) nonmetallic minerals (except stone, sand, gravel, clay, ceramic, refractory minerals, and chemical and fertilizer minerals).

213111 DRILLING OIL AND GAS WELLS

This U.S. industry comprises establishments primarily engaged in drilling oil and gas wells for others on a contract or fee basis. This industry includes contractors that specialize in spudding in, drilling in, re-drilling, and directional drilling.

213112 SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS

This U.S. industry comprises establishments primarily engaged in performing support activities on a contract or fee basis for oil and gas operations (except site preparation and related construction activities). Services included are exploration (except geophysical surveying and mapping); excavating slush pits and cellars; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells; shooting wells; perforating well casings; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells.

213113 SUPPORT ACTIVITIES FOR COAL MINING

This U.S. industry comprises establishments primarily engaged in providing support activities for coal mining (except site preparation and related construction activities) on a contract or fee basis. Exploration for coal is included in this industry. Exploration includes traditional prospecting methods, such as taking core samples and making geological observations at prospective sites.

213114 SUPPORT ACTIVITIES FOR METAL MINING

This U.S. industry comprises establishments primarily engaged in providing support activities (except site preparation and related construction activities) on a contract or fee basis for the mining and quarrying of metallic minerals and for the extraction of metal ores. Exploration for minerals is included in this industry. Exploration (except geophysical surveying and mapping services) includes traditional prospecting methods, such as taking core samples and making geological observations at prospective sites.

213115 SUPPORT ACTIVITIES FOR NONMETALLIC MINERALS (EXCEPT FUELS) MINING

This U.S. industry comprises establishments primarily engaged in providing support activities, on a fee or contract basis, for the mining and quarrying of nonmetallic minerals (except fuel) and for the extraction of nonmetallic minerals (except site preparation and related construction activities). Exploration for minerals is included in this industry. Exploration (except geophysical surveying and mapping services) includes traditional prospecting methods, such as taking core samples and making geological observations at prospective sites.

Appendix C.

Methodology

SOURCES OF THE DATA

The mining sector includes approximately 25,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of mining. The amount of information requested from mining establishments was dependent upon a number of factors. The more important consideration was the size of the company.

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:
 - a. Large and medium size establishments. Approximately 48 percent of all mining establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 15 economic census — mining regular forms. The first seven pages, requesting establishment data for items, such as employment and payroll, costs, assets, and capital expenditures, were fairly standard although some variation occurred depending on the industries collected on the form. The remaining pages of the form contained product, supply, fuel, and special inquiries. The diversity of the mining activities necessitated the use of several forms to canvass the 29 mining industries.
 - b. Small single-establishment companies. This group included approximately 12 percent of all mining establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. Establishments in the crushed stone, sand and gravel, and crude petroleum and natural gas industries with 5 to 19 employees received 1 of 2 versions of the short form. The form requested summary product and material data and totals, but no details on payrolls, cost of supplies and fuels, assets, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics, because the same data were collected on the short form as on the long form. However, detailed information on products, supplies, and fuels was not collected on the short form; thus, its use would increase the value of the “not specified by kind” (nsk) categories.

2. Establishments not sent a report form:
 - a. Small single-establishment companies not sent a report form. Approximately 40 percent of the mining establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and the Census Bureau’s ability to assign the correct six-digit NAICS industry classification to the establishment. For each six-digit NAICS industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments and receipts for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report that requested information for assigning NAICS industry codes. Establishments below the cutoff that could be

directly assigned a six-digit NAICS code were excused from filing any report. For below cut-off establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and receipts, cost of supplies, etc., and cost of fuels were not distributed among specific products, supplies, and fuels for these establishments but were included in the product, supplies, and fuels “not specified by kind” (nsk) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between mining and nonmining activity.

Sometimes the administrative-record cases had only two- or three-digit NAICS group classification codes available in the files. For mining, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other,” a default within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

- b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees, during 2002 are excluded as in previous censuses. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments covered in the 2002 Economic Census — Mining are classified in 1 of 29 industries in accordance with the industry definitions in the *North American Industry Classification System, (NAICS), United States, 2002* manual. Changes between 1997 and 2002 affecting this sector are discussed in the text at the beginning of this report. Tables at www.census.gov/epcd/naics02/ identify those industries that changed between the 1997 North American Industry Classification System (NAICS) and 2002 NAICS. When applicable, Appendix F of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar processes used to produce the mineral products. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the mining sector for 2002, there are 3 subsectors (three-digit NAICS), 5 industry groups (four-digit NAICS), 10 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 29 U.S. industries (six-digit NAICS). Product classes and products of the mining industries have been assigned codes based on the industry from which they originate. There are 63 product classes (seven-digit codes) and 136 ten-digit product codes. The ten-digit products are considered the primary products of the industry with the same first six digits.

For the 2002 Economic Census — Mining, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by mining, value of shipments and receipts, etc.) reflect the activities of the establishments that may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments and receipts, to the product statistics, the composition of the industry's output should be considered.

ESTABLISHMENT BASIS OF REPORTING

The 2002 Economic Census — Mining covers each mining establishment of firms with one or more paid employees operating in the United States. A company operating at more than one establishment is required to file a separate report for each location. A mining establishment is defined as a single physical location where mineral operations are conducted. However, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity, if the plant records permit such a separation and, if the activities are substantial in size.

For oil and gas field operations and for contract services, the basis for reporting is different from the “establishment” basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each state or offshore area adjacent to a state in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services, production-worker wages, and hours, by state. These consolidated reports were then allocated to state establishments based on the data reported at the state level. The 2002 figures for establishments include the summation of operations for each state allocated from these nationwide reports.

In 2002, as in prior censuses since 1967, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses, if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

The 2002 Economic Census — Mining excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service mining establishments of the same company. These data are published in a separate report series.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census:

- inability to identify all cases in the actual universe;
- definition and classification difficulties;

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- differences in the interpretation of questions;
 - errors in recording or coding the data obtained; and
 - other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

The Census Bureau obtains limited information extracted from administrative records of other federal agencies, such as gross receipts from federal income tax records and employment and payroll from payroll tax records. This information is used in conjunction with other information available to the Census Bureau to develop estimates for nonemployers, small employers, and other establishments for which responses were not received in time for publication.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 2002 Economic Census — Mining shows value of shipments and receipts data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment. The value of products shipped also may include some products shipped from manufacturing establishments with mining operations.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for the industry statistics files is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only capital expenditures and cost of supplies statistics are suppressed. Nonetheless, the suppressed data are included in higher-level totals.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.

