Mining Machinery and Mineral Processing Equipment: 2001

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Current Industrial Reports

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These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: www.stat-usa.gov/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

SUMMARY OF FINDINGS. In 2001, the manufacturers' value of shipments of selected types of mining machinery and related

equipment totaled \$1.3 billion, unchanged from the 2000 figure of \$1.3 billion. The 2001 total included shipments of \$102.7 million of portable crushing, screening, washing, and combination plants which was a 23.6-percent decrease from the 2000 total of \$134.5 million. Underground mining machinery equipment totaled \$299.1 million in 2001, a 1.3-percent increase from the 2000 total of \$295.4 million. In 2001, stationary, crushing, pulverizing, and screening machinery totaled \$306.3 million, a 0.6-percent decrease from the \$308.1 million reported in 2000. Drills and other mining machinery totaled \$202.3 million in 2001, a 17.0-percent increase from the \$172.9 million reported in 2000. Portable drilling rigs totaled \$402.5 million in 2001, a 0.1-percent decrease from the \$403.1 million reported in 2000.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Larry Blumberg, 301-763-4744.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

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 $Table \ 1. \ Manufacturers' \ Shipments \ of \ Mining \ and \ Mineral \ Processing \ Equipment \ by \ Type: \ 2001 \ and \ 2000 \ [Quantity \ in units. \ Value \ in \ thousands \ of \ dollars]$

(Qualitity in ur	nts. Value in thousands of donars	No. 2001		2000						
Product	Product description	of								
code		cos.		Quantity		Value		Quantity		Value
	Mining and mineral processing equipment	(X)		(X)		1,312,984		(X)		1,313,987
33312081	Portable crushing, screening, washing, and									
	combination plants	. 10		461		102,732		834		134,528
	Crushing plants (classification based upon the									
	type of crusher first in the processing flow):									
3331208111	Gyratory			45		17,618		82		25,141
3331208112	Impact			91		17,305		76		18,864
3331208113	Jaw 1/			(D)		(D)		(D)		(D)
3331208114	Roll 1/			57		24,496		107		33,709
3331208116	Screening, washing, and other plants	. 9		268		43,313		569		56,814
33313110	Underground mining machinery (except parts									
	sold separately)	24		17,131		299,144		16,557		295,416
3331311001	Continuous mining machines, borer, ripper,									
	auger, and drum, including roadheading			(D)		(D)		(75)		(D)
0004044000	machines 2/	6		(D)		(D)		(D)		(D)
3331311006	Face haulage vehicles, rubber-tired, self-propelled			115		27,786	1 /	152	,	40,541
3331311011	Support vehicles, rubber-tired or track-mounted			259		22,013	b/	365	a/	26,466
3331311016	All other underground mining machinery, n.e.c. 2/	. 17		16,757		249,345		16,040		228,409
33313150	Crushing, pulverizing, and screening (except									
	portable) machinery (except parts sold									
	separately)	. 28		7,267		306,288		5,130		308,069
	Crushers, stationary type, including skid-mounted:									
3331315001	Gyratory			187		56,050		202		55,358
3331315006	Impact			248	a/	35,980		310	a/	34,846
3331315011	Jaw			60		8,252		98		13,157
3331315016	Roll 3/	5		(D)		(D)		(D)		(D)
3331315021	Grinding mills and pulverizers 3/	5		226		66,074		205		51,351
0001017000	Screens, vibrating, stationary:	10		000		40.040		1.011		47 000
3331315026	Horizontal			669		42,942	,	1,011	,	47,022
3331315031	Inclined			1,282		55,448	a/	1,578	a/	57,950
3331315036	Other, including trommell	. 5		43		5,220		49		7,423
3331315041	Other crushing, pulverizing, and screening machinery, n.e.c.	. 10		4,552		36,322		1,677		40,962
	machinery, n.e.c.	. 10		4,552		30,322		1,077		40,302
33313171	Drills and other mining machinery, n.e.c. (except									
	parts)	. 18		15,885		202,286	r/	14,458	r/	172,899
	Drills and breakers (rotary and percussion):									
3331317102	Rock drills, air and hydraulic powered 4/	. 4		(D)		(D)		(D)		(D)
3331317106	Coal drills and core drills 4/			(D)		(D)		(D)		(D)
3331317111	Roof bolters 4/			11,522		90,570		11,220	r/	79,737
3331317116	All other mining machinery and equipment			,-				,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(except parts sold separately)	18	c/	4,363	b/	111,716	c/r/	3,238	a/r/	93,162
0001007	B + 11 199 - 1 - 1 - 1	0.1		(11)		400.504		(10)		400.077
3331327	Portable drilling rigs and parts	21		(X)		402,534		(X)		403,075
	Rotary, trailer- and truck-mounted with pull-back									
3331327116	capacity:	. 3		(D)		(D)		(D)		(D)
3331327110	Up to 14,999 lb 5/			(D) 177		32,145	a/	242		(D) 45,231
3331327126	30,000 to 59,999 lb 6/			83		33,256	a/	(D)		45,251 (D)
				19						
3331327131	60,000 lb and over 6/	. э		19		13,182		171		72,963
	Rotary blasthole drills, truck-, trailer-, or track-									
0001007100	mounted:	~		(B)		(P)		(B)		(D)
3331327136	Up through 59,999 lb 7/			(D)		(D)		(D)	_ ,	(D)
3331327141	60,000 lb and over 7/			151		66,469		219	r/	58,983
3331327146	Construction drills 8/	,		(D)		(D)		(D)		(D)
3331327151	Other portable drilling rigs, including workover	~		050		104 400		000		90 770
3331327256	(service) rigs 8/ Parts for portable drilling rigs			650		104,498		680 (Y)	r/	80,779
3331321230	rarts for portable trining rigs	10		(X)		152,984		(X)	r/	145,119

D Withheld to avoid disclosing data for individual companies. $\,$ n.e.c. Not elsewhere classified. $\,$ r/Revised by 5 percent or more from previously published data. $\,$ X Not applicable.

^{1/}Product codes 3331208113 and 3331208114 are combined to avoid disclosing individual company data.

^{2/}Product codes 3331311001 and 3331311016 are combined to avoid disclosing individual company data.

^{3/}Product codes 3331315016 and 3331315021 are combined to avoid disclosing individual company data.

 $^{4/}P roduct\ codes\ 3331317102,\ 333331317106,\ and\ 3331317111\ are\ combined\ to\ avoid\ disclosing\ individual\ company\ data.$

 $^{5/}P roduct\ codes\ 3331327116\ and\ 3331327121\ are\ combined\ \ to\ avoid\ disclosing\ individual\ company\ data.$

^{6/}Product codes 3331327126 and 3331327131 are combined for 2000 to avoid disclosing individual company data.

 $^{7/}P roduct\ codes\ 3331327136\ and\ 3331327141\ are\ combined\ to\ avoid\ disclosing\ individual\ company\ data.$

^{8/}Product codes 3331327146 and 3331327151 are combined to avoid disclosing individual company data.

Table 2. Shipments, Exports, and Imports of Selected Mining Machinery and Mineral Processing Equipment: 2001 and 2000 [Value in thousands of dollars]

Product description	Manu- factures' shipments (value f.o.b. plant)	Exports of domestic merchan- dise 1/2/ (value) at port)	Value of imports for consumption 1/3/4/
2001			
Portable crushing plants and stationary grinding			
machines	(D)	47,927	61,120
Sorting, screening, separating or washing machines Rock breaking machines, coal or rock cutters, tunneling machinery, and rock drilling and earth	183,245	64,657	95,016
boring tools	(D)	150,792	184,554
Mine wagon pushers, locomotive or wagon traversers, wagon tippers, and similar railway wagon handling equipment	49,799 (D)	2,969 33,533	7,570 45,411
2000			
Portable crushing plants and stationary grinding	(D)	00.007	00.001
machines	(D)	63,695	92,681
Sorting, screening, separating or washing machines Rock breaking machines, coal or rock cutters, tunneling machinery, and rock drilling and earth	210,171	67,558	93,098
boring tools	(D)	153,017	203,760
Mine wagon pushers, locomotive or wagon traversers, wagon tippers, and similar railway			
wagon handling equipment	67,007	4,868	1,463
Stationary crushing machines	(D)	28,674	48,001

D Withheld to avoid disclosing data for individual companies.

- $1/For\ comparison\ of\ North\ American\ Industry\ Classification\ System\ (NAICS)-based\ product\ codes\ with\ Schedule\ B\ export\ numbers,\ and\ HTSUSA\ import\ numbers,\ see\ Table\ 3.$
 - 2/Source: Census Bureau report FT 446, U.S. Exports.
 - 3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.
- 4/Dollar value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus U.S. import duties.

Table 3. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 2001

Product code	Product description	Export number 1/	Import number 2/
3331208111, 112, 113, 114, 3331315021	Portable crushing plants and stationary grinding machines	8474.20.0010 8474.20.0070	8474.20.0010 8474.20.0070
3331208116, 3331315026, 031, 036, 041	Sorting, screening, separating, or washing machines	8474.10.0010 8474.10.0090	8474.10.0010 8474.10.0090
3331311001, 3331317102 106, 111	Rock breaking machinery, coal or rock cutters, tunneling machinery, and rock drilling and earth boring tools	8430.31.0000 8430.39.0000 8430.50.0000 8430.69.0100 8207.13.0000 8207.19.1030 8207.19.2030 8207.19.5030	8430.31.0040 8430.31.0080 8430.39.0040 8430.39.0080 8430.50.1000 8430.50.5000 8430.69.0100 8207.13.0000 8207.19.3030 8207.19.3060 8207.19.3090 8207.19.6030 8207.19.6060 8207.19.6060
3331311006, 011	Mine wagon pushers, locomotive or wagon traversers, wagon tippers, and similar railway wagon handling equipment	8428.50.0000	8428.50.0000
3331315001, 006, 011, 016	Stationary crushing machines	8474.20.0050	8474.20.0050

1/Source: 2001 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2001).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the 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), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on mining machinery and equipment have been collected by the Census Bureau since 1961. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.