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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY  
986 NATIONAL CENTER  
RESTON, VIRGINIA 20192

INDIVIDUAL COMPANY  
DATA - PROPRIETARY

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes.

COPPER MATERIALS

Consumption at Primary Brass and Primary Copper Wire Rod Mills

(Please correct if name or address has changed.)

FACSIMILE NUMBER  
1-800-543-0661

Public reporting burden for this voluntary collection of information is estimated to average 45 MINUTES per response. A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Comments regarding this collection of information should be directed to: U.S. Geological Survey, Statistics and Information Systems Section, 988 National Center, Reston, VA 20192. **Please do not mail canvass forms to this address.**

Collection of nonfuel minerals information is authorized by Public Law 96-479 and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate. Please return this form in the enclosed envelope or fax to the above toll-free number **BY THE 15TH OF THE MONTH** following the reporting period. Complete a separate form for each establishment that was active during the reporting period. Use zero (0) when appropriate. If you have nothing to report, please complete SECTION 1, sign, and return the form. Additional forms are available upon request. This form should be filed by any primary brass mill or primary copper wire rod mill which consumes refined copper, copper-alloy ingot, and/or copper-base scrap in any reporting period. If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

SECTION 1. Type of operation. (check one)  Primary brass mill  Primary copper wire rod mill

SECTION 2. Stocks, receipts, and disposition of copper and copper-base scrap.

Type of scrap (1)	Line code	ADP code	Weight unit (2)	Physical inventory adjustment only (3)	Beginning stocks (4)	Purchased scrap (incl. toll) received (5)	Home scrap generated (6)	All scrap consumed (7)	Scrap shipped (resold as scrap) (8)	Ending stocks (9)
Unalloyed copper.....	189	201	Thousands of pounds (metal weight)							
Copper-base alloy.....	199	202								
<b>TOTAL scrap.....</b>	<b>499</b>	<b>203</b>								

SECTION 3. Receipts of purchased scrap and stock by type.

Type of scrap (1)	Line code	ADP code	Weight unit (2)	Purchased scrap (incl. toll) received during month (3)	Percent old scrap (see inst.) (4)	Stocks (see instructions) (5)
<b>TOTAL unalloyed copper scrap.....</b>	<b>189</b>	<b>104</b>	Thousands of pounds (metal weight)	*		
No. 1 wire, and heavy.....	181	101				
No. 2 wire, mixed heavy, and light.....	182	102				
Other unalloyed copper (specify) _____						
<b>TOTAL copper-base alloy scrap.....</b>	<b>199</b>	<b>139</b>		*		
Tin brass and admiralty brass.....	114	106				
Lead tin brass.....	115	107				
Leaded and rod brass.....	117	108				
Yellow brass and muntz metal.....	185	119				
Cartridge cases and brass.....	106	121				
Low brass.....	146	129				
Commercial bronze and gilding metal.....	177	132				
Cupro nickel.....	158	126				
Nickel silver.....	109	125				
Nickel brass.....	112	105				
Aluminum bronze.....	111	134				
Phosphor bronze _____ % Sn.....	187	123				
Mixed copper-base alloy (give comp. in CODE 188)...	180					
Composition of receipts in CODE 180.....	188					

\* Entries in COLUMN 3 for LINE CODES 189 and 199 should be identical with entries in SECTION 2, COLUMN 5, for the same codes.

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**SECTION 4. Stocks, receipts, and disposition of refined copper, copper-alloy ingot, etc.**

Material (1)	Line code	ADP code	Weight unit (2)	Beginning stocks (3)	RECEIPTS		Consumption in own plant (6)	Shipments * (7)	Ending stocks (8)
					Own (4)	Toll (5)			
Refined copper:			Thousands of pounds (metal weight)						
Cathodes.....	021	401							
Wire bars.....	022	402							
Ingots and ingot bars.....	023	403							
Cakes and slabs.....	024	404							
Billets.....	025	405							
Other (specify) _____	026	406							
<b>TOTAL refined copper.....</b>	<b>099</b>	<b>408</b>							
Copper-alloy ingot, billets:									
Tin bronze.....	331	409							
Leaded tin bronze.....	332	410							
Leaded red brass.....	333	411							
High-leaded bronze.....	334	412							
Leaded yellow brass.....	335	413							
Manganese bronze.....	336	414							
Hardeners.....	350	420							
Other (specify) _____									
<b>TOTAL copper-alloy ingot, billets, etc.....</b>	<b>399</b>	<b>423</b>							

\* Report only shipments of refined copper or ingot in same form as received. Do not report shipments of products.

**SECTION 5. Stocks, production, and shipments of brass mill products and copper wire rod mill products.**

(Metal weight for brass mill products; copper content for wire rod mill products.)

NOTE: Only brass mill products and copper wire rod mill products, as defined in Order M-11A (revised 10/28/66), are to be included in SECTION 5.

Product (1)	Line code	ADP code	Weight unit (2)	Beginning stocks (3)	Production (4)	Shipments (5)	Ending stocks (6)
Intermediate shapes* .....	501	301	Thousands of pounds (metal weight)				
Finished products.....	502	302					
<b>TOTAL.....</b>	<b>503</b>	<b>303</b>					

\* Report only intermediate shapes produced for shipment outside the plant.

Remarks:

**FOR U.S. GEOLOGICAL SURVEY USE**

		BRASS MILL PRODUCTS							
Line code	ADP code	Copper (1)	Tin (2)	Lead (3)	Zinc (4)	Aluminum (5)	Nickel (6)	Beryllium (7)	Total (8)
202	140								

Name of person to be contacted regarding this report \_\_\_\_\_ Tel. area code \_\_\_\_\_ No. \_\_\_\_\_ Ext. \_\_\_\_\_

Address \_\_\_\_\_ No. \_\_\_\_\_ Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

May tabulations be published which could indirectly reveal the data reported above?  (1) Yes  (2) No

Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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**GENERAL INFORMATION**

Primary brass mills and primary copper wire rod mills shall report on a plant basis on Form 9-4066-M. Brass mills and copper wire rod mills which OWN REFINED COPPER in refinery shapes, which is "in transit" or in storage (other than that which is located in a melting or milling plant), shall file pertinent data on a COMPANY-OWNERSHIP BASIS, using Form 9-4066-M.

Report all quantities in thousands of pounds metal weight.

**DEFINITIONS**

**PRIMARY BRASS MILLS** - Convert copper raw materials, such as refinery shapes and scrap, into brass mill products such as sheet, strip, rod, bar, redraw materials, etc.

**PRIMARY COPPER WIRE ROD MILLS** - Convert copper raw materials, such as refinery shapes and scrap into wire rod for the production of copper wire.

**PURCHASED SCRAP** is a general term, excluding home scrap, but covering all scrap which has been purchased, or received from another plant of the same company. It includes new scrap, old scrap, toll scrap, and scrap generated at one plant and transferred to another plant of the same company. It includes scrap resulting from the consumption of mill products in the fabricating department of the respondent company where the mill products are cut up, machined, forged, formed or processed into component parts or end products. It also includes scrap from the wire mill department of a brass mill consumed in the brass mill.

**HOME SCRAP (RUN-AROUND SCRAP)** is scrap generated in the production of mill products and consumed in the plant of generation. It does not include scrap generated in other parts of the respondent company or in departments of the plant which consume mill shapes in the production of component parts or end products.

**TOLL SCRAP** is scrap processed for a service charge without change of ownership. It should be reported by the plant processing it, not by the plant owning it.

**COPPER-BASE SCRAP** has a composition equal to or exceeding 40 percent copper, by weight. It does not include alloyed gold produced in accordance with U.S. Commercial Standard CS 67-38.

**PURCHASED RECEIPTS** mean the actual acceptance of delivery of copper-base materials by the consuming plant.

**CONSUMPTION** means the quantity of copper raw materials used by primary brass and primary wire mills in the production of mill products.

**INSTRUCTIONS**

**SECTION 1. Type of operation.** Self-explanatory.

**SECTION 2. Stocks, receipts and disposition of copper and copper-base scrap.**

**COLUMNS 1 AND 2.** Self-explanatory.

**COLUMN 3.** Physical inventory adjustment only. Enter adjustments made in your records due to a physical inventory taken between the end of the preceding reporting period and the time of this report. If adjustment is significant, explain under "Remarks".

**COLUMN 4.** Beginning stocks. Report all classes of scrap, including purchased, own-generated, toll, and run-around scrap on hand at the beginning of the reporting period.

*Entries in COLUMN 4 plus or minus "Inventory Adjustments", COLUMN 3, should equal "Ending Stocks", COLUMN 9, on preceding report.*

**COLUMN 5.** Purchased scrap (including toll) received. Report scrap purchased, including own and toll, but not home (run-around scrap) during the reporting period. Include receipts by the castings department of a brass mill of own-generated scrap from the fabricating and wire-mill departments.

**COLUMN 6.** Home scrap generated. Report generation of home (run-around) scrap during the reporting period.

**COLUMN 7.** All scrap consumed. Report consumption of all scrap used in the casting department, including purchased, own-generated, toll and run-around scrap.

**COLUMN 8.** Scrap shipped (resold as scrap). Report all classes of scrap, including purchased, own-generated, toll, and run-around scrap.

**COLUMN 9.** Ending stocks. Report all classes of scrap, including purchased, own-generated, toll, and run-around scrap on hand at the end of the reporting period.

*For each line, the entry in COLUMN 9 should equal COLUMN 4 + COLUMN 5 + COLUMN 6 - COLUMN 7 - COLUMN 8.*

**OVER**

### SECTION 3. Receipts of purchased scrap and stock by type.

This section only needs to be completed for the first month of each quarter. This may be done in one of three ways:

- A. If no breakdown of receipts of scrap is feasible, further than given in SECTION 2, enter composition of copper-base alloy scrap receipts, CODE 199, SECTION 2, on the line for CODE 188 in SECTION 3, and omit the remainder of SECTION 3.
- B. If a breakdown by title is feasible, it may be given in SECTION 3, as listed, with other titles written in, if necessary.
- C. Scrap receipts may also be reported by a combination of specific title, unalloyed and mixed alloy, but if any mixed alloy, CODE 180, is reported, the composition should be given on the line for CODE 188.

Brass mills are requested to enter, in SECTION 3, a breakdown of stocks of scrap at times of taking inventory or whenever convenient. A breakdown at the end of the year will be especially needed. It should be reported in COLUMN 5, "Stocks".

Most brass-mill scrap, but not all, may be assumed to be new scrap. Cartridge cases are usually old or obsolete. Some unalloyed scrap, such as wire, used by brass mills, may be old scrap. Entries of percentages of old scrap, either actual or estimated by technical staff, will be of value. COLUMN 4 may be used for reporting these percentages.

**SECTION 4. Stocks, receipts, and disposition of refined copper, copper-alloy ingot, etc.** Entries on each line should balance, that is, beginning stocks plus receipts during month should EQUAL gross weight consumed during month PLUS shipments during month PLUS ending stocks.

**REFINED COPPER:** Report here copper in refinery shapes, as listed. Do not report wire, rod, sheet, or other intermediate shapes. Report copper shot and copper powder under "Other (specify)".

**COPPER-ALLOY INGOT, BILLETS, ETC:** Report here copper-alloy ingot, billets, copper-alloy shot, waffle, and hardeners. Report no unalloyed copper in this subsection.

### SECTION 5. Stocks, production, and shipments of brass mill products and copper wire mill products.

*(Metal weight for brass mill products; copper content for wire mill products.)*

Only brass mill products and copper wire mill products, as defined in Order M-11A (revised 10/28/66) are to be included in SECTION 5 for the reporting month.

Brass mill products and copper wire mill products are classified as intermediate shapes if they are to be rolled, redrawn, insulated, or otherwise further processed into finished brass mill or copper wire mill products. For example, brass mill products such as rod, sheet, or tube for further processing (rerolling, redrawing) into brass mill products are therefore intermediate shapes, as is wire for redrawing and/or insulating, and wire rod.

Brass mill products and copper wire mill products are classified as finished products if they are for use without further processing as intermediate shapes. For example, brass mill products such as rod, sheet or tube for use in manufacturing and construction without further processing (rerolling, redrawing) into brass mill products are finished products, as is wire, whether bare or insulated, if for use as such without further drawing and/or insulating.

Military ammunition cups and discs are always finished products, and are to be reported in net weight of cups and discs only, i.e. excluding the weight of the webbing scrap. Strip to produce military ammunition cups and discs is always an intermediate shape. Other strip, however, including that for production of non-military cups and discs, may be an intermediate shape or a finished product, depending on whether or not it is for further rolling. Non-military ammunition cups and discs are not to be reported on this form.

If the breakdown of inventory into intermediate shapes and finished products cannot be readily determined, only the total may be reported. This applies only to the inventory data; production and shipments are to be reported separately for intermediate shapes and finished products.