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

INDIVIDUAL COMPANY  
DATA - PROPRIETARY

SCRAP AND SECONDARY  
COPPER, BRASS, AND NICKEL

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. Unless objection is made in writing to the USGS, the information furnished in this report may be disclosed to the respondent's State Geological Survey (or similar State Agency) if the State has appropriate safeguards to prevent disclosing company proprietary data.

Brass Ingot Makers and  
Miscellaneous Remelters - Plant Report

Check one:  Own  Toll

FACSIMILE NUMBER  
1-800-543-0661

(Please correct if name or address has changed.)

Paperwork Reduction Act Notice: Public voluntary reporting burden for this 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, gs-info\_collections@usgs.gov. **Please do not mail canvass forms to this address.**

Collection of nonfuel minerals information is authorized by 30 U.S.C. 1601 et seq. 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 DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD**. This form should be filed by any brass ingot maker or miscellaneous remelter which produces, ships, or holds inventory of copper or copper-base alloy in any calendar period.

**SECTION 1. Stocks, receipts and disposition of purchased copper, brass, and nickel scrap.** (in thousands of pounds)  
Entries for each item should balance: COLUMNS (2) plus (3) should equal COLUMNS (6) plus (7) plus (8).

Scrap item (1)	Code	Stocks, beginning of period (2)	Received during period			Used or resold during period		Stocks, end of period (8)
			Quantity (3)	New scrap (%) (4)	Old scrap (%) (5)	Melted or refined (6)	Resold as scrap (7)	
<b>COPPER SCRAP:</b>								
No. 1 wire and heavy copper.....	101							
No. 2 wire, mixed heavy, and light copper.....	102							
Copper scale.....	103							
<b>COPPER-BASE SCRAP:</b>								
Composition turnings and solids.....	105							
Zinc-bronze.....	106							
Cocks and faucets.....	110				100			
Yellow brass and castings.....	111							
Light brass.....	112							
Old rolled brass and brass pipe.....	113							
Brass clippings and turnings.....	114			100				
Yellow rod-brass ends and turning.....	115			100				
Auto radiators (unsweated).....	120				100			
Electrotype shells.....	117				100			
Nickel silver.....	125							
Gilding metal clips.....	129			100				
Manganese bronze.....	116							
Cartridge cases.....	119							
Refinery brass (Cu ____ % ).....	135							
Brass ashes and skimmings.....	140			100				
88 - 10 - 2:88 - 6 - 1 1/2 - 4 1/2 solids and turnings.....	121							
Other solids and turnings.....	122							
Other (specify) _____								
TOTAL copper-base scrap.....	150							
<b>NICKEL SCRAP (Nonferrous):</b>								
New nickel clippings, etc.....	151			100				
Old nickel scrap.....	152				100			
New nickel copper metal clips, etc.....	153			100				
Old nickel copper scrap.....	154				100			
Nickel-covered plating racks.....	155			100				
Nickel-bearing residues (Ni ____ % ).....	156							
Other (specify) _____								
TOTAL nickel scrap.....	158							

**SECTION 2. Production, disposition, and stocks of secondary copper and copper alloys.** (in thousands of pounds) (Secondary metals are those metals or alloys recovered from scrap and residues.) Report black copper only if produced for shipment to other plants for refining.

Material	Code	Stocks, beginning of period (2)	Produced during period (3)	Consumed in own plant during period (4)	Shipped during period (5)	Stocks, end of period (6)
<b>A. METALLIC COPPER:</b>						
Electrolytic grade.....	201					
Fire refined.....	202					
Black copper (for shipment only).....	203					
Copper powder.....	204					
Other (specify) _____						
TOTAL metallic copper.....	207					
<b>B. COPPER-ALLOY INGOT, BILLETS, AND CAKES:</b> (Ingot Identification numbers)						
Tin bronzes (193-257).....	208					
Leaded red brass and semi-red brass (100-132).....	209					
High-leaded tin bronze (295-327).....	210					
Yellow brass (400-409).....	211					
Manganese bronze (420-424).....	212					
Aluminum bronze (415).....	213					
Nickel silver (410-414).....	214					
Silicon bronze and brass (500).....	215					
Hardeners and master alloys.....	216					
Other alloys (specify) _____	217					
_____						
_____						
_____						
TOTAL copper-alloy ingot, billet, and cakes.....	220					

**SECTION 3. Production of secondary nickel and nickel alloys during period.** (in thousands of pounds)

Product (1)	Code	Gross weight (2)	Nickel content (3)
Remelt nickel.....	301		
Nickel copper metal.....	302		
Other nickel alloys (specify) _____	303		
Nickel chemicals.....	304		
TOTAL secondary nickel and nickel alloys.....	306		

**SECTION 4. Consumption of purchased copper-base scrap in production of items not listed in SECTIONS 2 and 3.** (in thousands of pounds)

Kind of product (1)	Code	SCRAP CONSUMED DURING PERIOD		
		Unalloyed copper, gross weight (2)	Brass and bronze, gross weight (3)	Estimate of copper recovered net weight (4)
Aluminum ingot.....	307			
Lead and tin-base alloys.....	308			
Zinc-base alloys.....	309			
Other (specify) _____				
TOTAL.....	311			

**SECTION 5. Consumption of raw materials in production of items listed in SECTIONS 2, 3, and 4.** (in thousands of pounds)

Material (1)	Code	Consumed during period (2)
"Black copper" from others.....	401	
Refined copper:		
Cathodes.....	402	
Wire bars.....	403	
Ingots and ingot bars.....	404	
Cakes and slabs.....	405	
Billets.....	406	
Other.....	407	
Secondary copper - alloy ingots from others.....	410	
Primary nickel.....	411	
Other metals (zinc, tin, etc.).....	413	
TOTAL raw materials.....	415	

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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**DEFINITIONS**

**Brass Ingot Makers and Miscellaneous Remelters**

<b><i>Consumed</i></b>	"Used," that is, the quantity melted, refined, rolled, drawn, or otherwise converted to ingot, sheet, wire, rod, etc.
<b><i>Secondary metals</i></b>	Metals or alloys recovered from scrap and residues. The term "secondary" applies only to the source of the metal and has no relation to the type of product recovered, either as to quality, degree of purity, or physical characteristics.
<b><i>Scrap metals</i></b>	Scrap metals are divided into three main categories: Old scrap, new scrap, and home scrap.
<b><i>Old scrap</i></b>	Scrap that consists of metal articles that have been discarded because of wear, damage, or obsolescence, usually after serving a useful purpose. Typical examples of old scrap are discarded trolley wire, battery plates, railroad-car boxes, fired-cartridge cases, used pipe, plumbing fixtures from building demolition, lithographer's plates, and obsolete military equipment.
<b><i>New scrap</i></b>	Scrap that consists of process scrap (plant scrap) generated in the manufacture of articles from primary or refined metal and consumed at a plant of different location from the plant of generation. New scrap also includes defective finished or semifinished articles returned by purchasers to be reworked. Typical examples of new scrap are clippings, borings, turnings, skimmings, slags, and drosses.
<b><i>Home scrap (run-around scrap)</i></b>	Process scrap consumed in the plant of generation. Scrap generated in a foundry and consumed in a smelter at the same plant location is considered home scrap. Home scrap should not be reported on Form 9-4083-A.
<b><i>Toll scrap</i></b>	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.
<b><i>Purchased scrap</i></b>	A general term, excluding home scrap, but covering all scrap which has been purchased, or transported from one plant to another. It includes new scrap, old scrap, toll scrap, and scrap generated at one plant and transferred to another plant of the same company. The term also includes such scrap as is reclaimed in shipyard repair work and from line operations at railroad foundries, although no definite financial transaction may have resulted.
<b><i>Hardener</i></b>	An intermediate alloy which is not suitable for direct use without combination with other materials and which is designed to facilitate the introduction of one or more of the constituent metals into other alloys.
<b><i>Copper scrap</i></b>	In general, when this term is used, it is meant to cover all scrap in which copper is the only constituent or is the chief constituent. When it is desired to distinguish between these two, the terms "unalloyed copper scrap" and "copper-alloy scrap" are used.

**SCRAP AND SECONDARY COPPER, BRASS, AND NICKEL ANNUAL SURVEY  
INSTRUCTIONS (continued) - PLEASE RETAIN FOR YOUR FILES**

**GENERAL INSTRUCTIONS**

In completing this form, reasonable estimates should be used wherever exact data are not available. Use zero (0) when appropriate. Do not report decimals or fractions. Round to the nearest whole number. If you have nothing to report, please sign and return the form. Please do not make entries in shaded areas. Additional forms are available upon request.

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.

**SPECIFIC INSTRUCTIONS**

Check the appropriate box in the first line above SECTION 1 to indicate whether the report covers "Own" or "Toll" operations. If both types apply to your company, you will submit two separate reports. The "Own" shall cover material owned by you and processed in your own plant. The "Toll" shall cover material owned by others, but located in your plant for processing on a service-charge basis.

**SECTION 1.** Report here all copper and copper-base and nickel and nickel-base scrap received and used in the production of refined copper, copper alloys, or other alloys. If a copper-base or nickel-base scrap item other than those listed in the section is used, it should be entered on one of the blank lines, and its name written in with an estimated percentage of new and old scrap. These percentages vary and your estimate is the only available guide to this classification.

Most new scrap consists of segregated trimmings of residues of sheet, rod, wire, or ingot, and is returned from the processing industries to the industries which produced the sheet, rod, wire, or ingot. New scrap is generally regarded as part of the circulating industrial load rather than part of the available supply. Consumption of new scrap is an indication of industrial activity. Old scrap, being more various and widely distributed, is more difficult to prepare. The metal contained in this scrap was subtracted from the available supply when the articles, of which the scrap consists, were manufactured, and is therefore an addition to the supply when returned for reprocessing. It is therefore important statistically to report both new scrap and old scrap and to differentiate one from the other as accurately as possible. Approximations are often necessary, but they can be accurate if the basis used are accurate.

**SECTION 2A.** Report here unalloyed copper products produced and shipped at own plant; do not report shipments of imported refined copper or refined copper produced by another secondary refined producer. Black copper, if made as an intermediate product to be refined later in your plant, should not be reported, but if made to be shipped to a refiner or elsewhere, it should be reported. Production of copper shot, copper billets, and cast copper anodes should also be reported in this section on the line entitled "Other (specify)."

**SECTION 2B.** Report here all copper-alloy ingot produced and shipped at own plant; do not report shipments of imported copper alloy ingot or copper alloy ingot produced by another ingot maker. Alloys which do not exactly correspond to the items listed should be entered on the line for the alloy which most nearly corresponds. However, any alloys produced which definitely cannot be placed in any of the listed categories should be entered on the line for "other alloys", or on a blank line, with the composition and proper designation being shown. Copper-alloy billets and cakes made for brass mills should be reported in this section.

**SECTION 3.** Report here production of all nickel products, not including nickel silver and copper nickel, which are copper-base alloys.

**SECTION 4.** Report here totals of unalloyed and alloyed copper scrap used in aluminum alloys, etc., even though they have been reported in SECTION 1. This distinguishes them from scrap used in copper and nickel products, if any was so used and reported in SECTION 1.

**SECTION 5.** Report here consumption only of other materials used.