



Cu

Copper Supply & Consumption

20⁰⁴ 24

Cu

Copper Development
Association Inc.

[COPPER.ORG](https://copper.org)

Preface

Statistical data on the supply and consumption of copper and copper alloys in the United States are available from many governmental and private sources. In this report, original data from these sources are brought together and rationalized by CDA to provide a set of data on U.S. copper supply and consumption that is both consistent and accurate in all aspects from mine to end-use market.

The main sources of information assembled here include, the U.S. Department of the Interior's, U.S. Geological Survey, National Minerals Information Center; the U.S. Department of Commerce's, Bureau of the Census; the U.S. International Trade Administration and Copper Development Association Inc. Where data from different sources are conflicting, and where original data appear to be in error, the best judgment has been applied. General sources are shown in the tables throughout the report. Those interested to know the specific sources of any of the data should contact CDA.

The statistics are arranged in a logical sequence to trace the flow of copper in the U.S. economy from mining and scrap collection through smelting, refining and ingot making to wire rod mills to wire mills, brass mills, and foundries to the final end-use markets. This flow is shown schematically on [pages 4 and 5](#). On this schematic flow sheet the major statistics of copper supply and consumption in the United States for 2024 appear. Along with each major statistic on the chart, a reference is shown. This reference identifies the table in the report where details on that item, from 2004 through 2024, will be found. Most data for 2024 are preliminary.

There are four major tables in the report. [Table 1](#) covers the supply of primary copper. [Table 2](#) presents data on the supply of copper from secondary sources. In [Table 3](#), statistics on the consumption of primary and secondary metals by mills, foundries and other industries are summarized.

Finally, [Table 4](#) details the supply of mill, foundry and powder products and their consumption in five end-use market areas. In each of these tables, additions to the flow (such as net imports) are indicated as positive numbers, while subtractions from the flow (such as melting losses or net additions to stocks) are shown in parentheses.

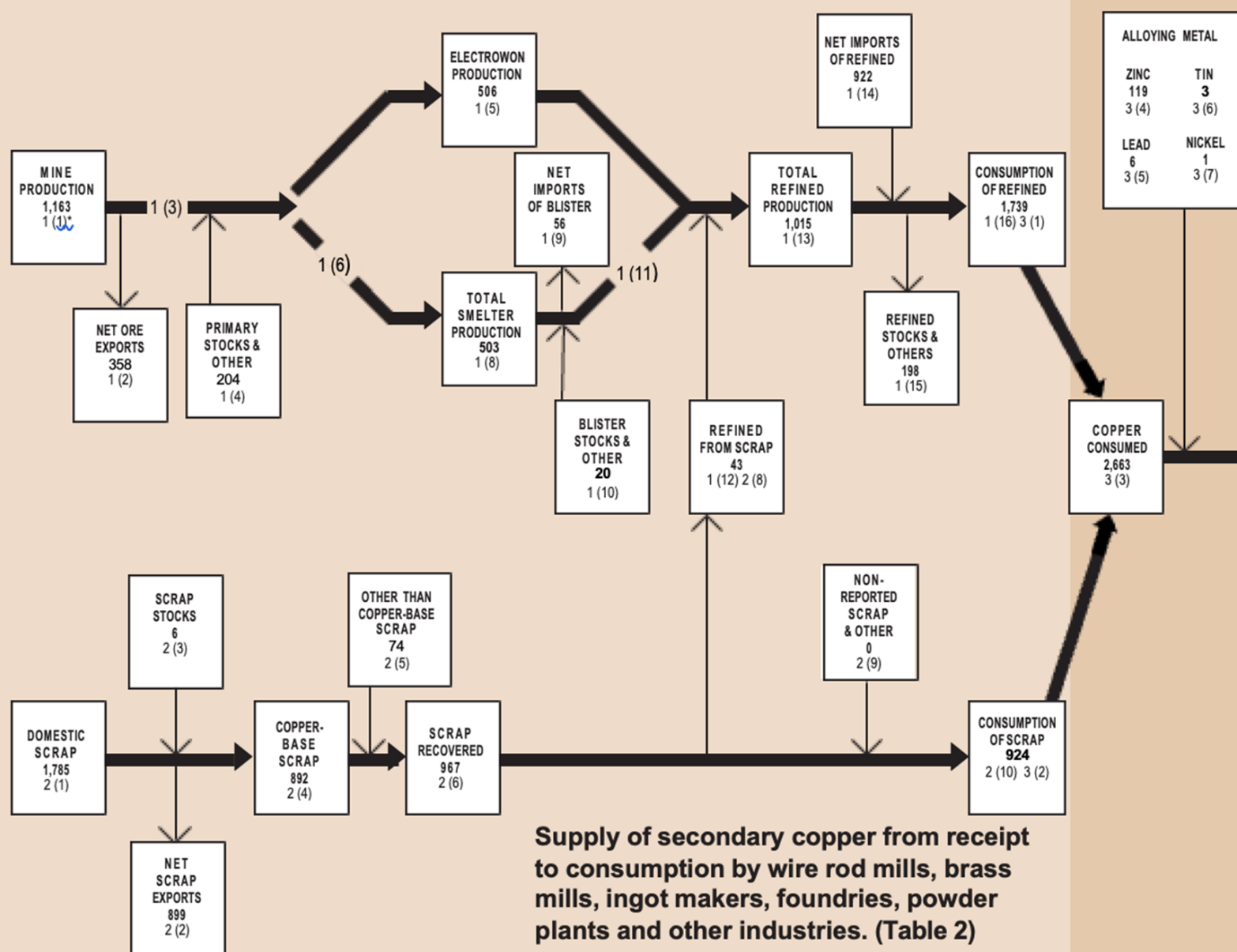
The arrangement of the data in the report can be illustrated with an example. Consider Mine Production, the upper left-hand box in the flow sheet on page 4. As shown in the box, mine production of copper in the United States totaled 1,163 thousand tons in 2024. Beneath this figure a number appears referring to [Table 1](#), abbreviated 1 (1). This means that in [Table 1](#), on Line (1), mine production is shown for the full period 2004 through 2024. In [Table 1](#), on Line (1), a further reference will be found after the item heading Mine Production, directing the reader elsewhere on [page 6](#). In fact, on [page 6](#), a table entitled [Table 1, Item 1](#) presents the data on mine production by state for 2004 through 2024. In this way all the data on supply and consumption appear in logical sequence proceeding through the report, eliminating the need for explanatory text.

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Supply of primary copper from mine to consumption by wire rod mills, brass mills, ingot makers, foundries, powder plants and other industries. (Table 1)

COPPER CONTENT, thousands of short tons

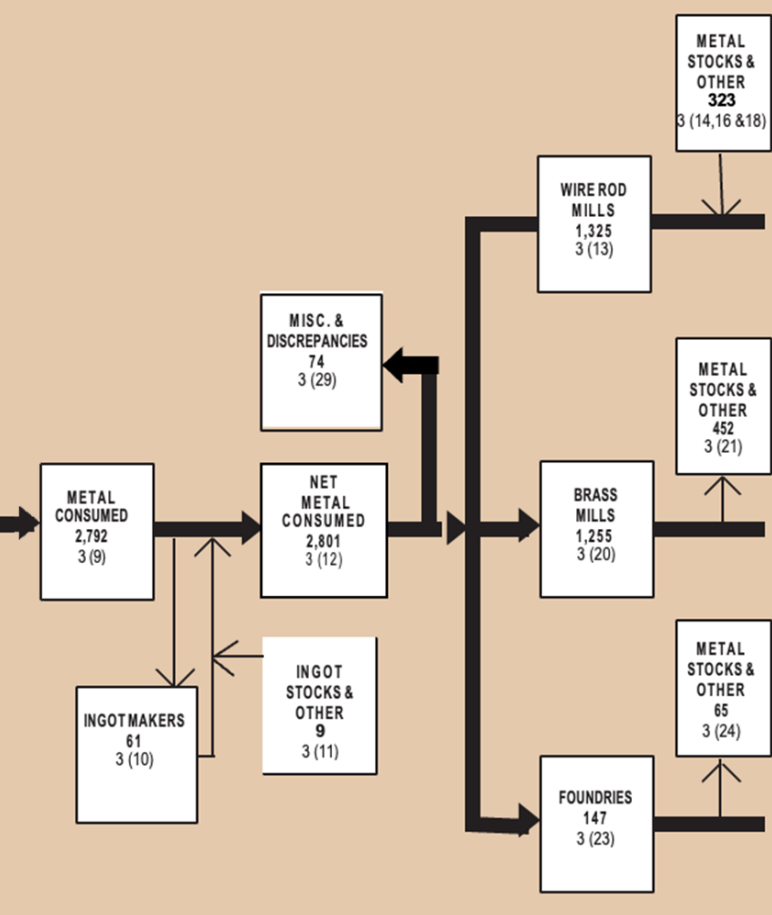


*1 (1) Refers to table and item in report where data for 2004 through 2024 appear.

Note: Numbers may not sum due to rounding.

Consumption of metals by wire rod mills, brass mills, ingot makers, foundries, powder plants and other industries. (Table 3)

METAL CONTENT, thousands of short tons



Supply of wire mill, brass mill, foundry and powder products and their consumption in the end-use markets. (Table 4)

METAL CONTENT, millions of pounds

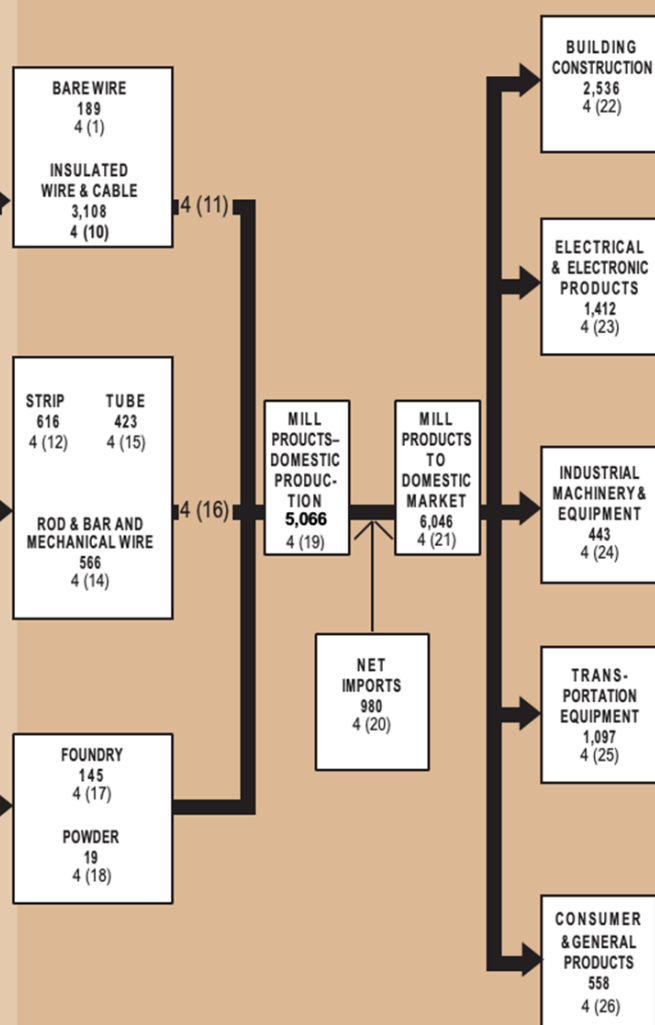


Table 1.

Supply of primary copper from mine to consumption by wire rod mills, brass mills, ingot makers, foundries, powder plants and other industries

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
(1) Mine Production (page 6).....	1,275	1,257	1,319	1,287	1,444	1,302	1,224	1,227	1,290	1,376	1,490	1,551	1,576	1,388	1,347	1,386	1,325	1,356	1,359	1,242	r 1,163
(2) Net Ore/Conc./Matte Imports (page 8) ^(a)	(24)	(195)	(222)	(214)	(381)	(166)	(150)	(261)	(325)	(379)	(452)	(432)	(365)	(246)	(243)	(370)	(420)	(371)	(376)	(370)	r (358)
(3) Total Primary.....	1,251	1,062	1,097	1,074	1,063	1,136	1,074	966	965	997	1,038	1,119	1,212	1,142	1,104	1,015	905	984	983	872	r 805
(4) Primary Stocks and Other.....	(10)	126	39	162	127	46	62	120	89	96	104	110	87	(10)	74	77	58	32	19	113	r 204
(5) Electrowon Production.....	644	611	584	556	560	525	474	493	519	524	567	648	678	614	586	581	616	620	612	569	r 506
(6) Smelter Production from Primary.....	597	577	552	680	630	658	662	593	535	569	575	581	621	518	591	511	347	397	390	417	503
(7) Smelter Production from Scrap.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(8) Total Smelter Production (page 8).....	597	577	552	680	630	658	663	593	535	569	575	581	621	518	591	511	347	397	390	417	503
(9) Net Imports of Blister/Anode (page 8).....	115	100	167	152	110	49	10	(15)	(15)	(11)	(12)	(11)	(10)	(10)	(10)	(8)	(7)	(26)	(13)	(33)	(56)
(10) Blister/Anode Stocks and Other (page 9)....	27	45	24	23	51	(9)	22	23	21	14	28	(16)	12	24	12	1	7	77	22	(23)	20
(11) Refined Production from Blister/Anode.....	740	721	744	855	791	699	694	601	541	571	591	553	623	532	593	505	347	448	399	360	466
(12) Refined Production from Scrap.....	56	52	49	51	60	51	42	41	44	52	51	54	51	44	45	49	48	54	44	43	43
(13) Total Refined Production (page 9).....	1,439	1,384	1,378	1,462	1,411	1,275	1,210	1,135	1,104	1,146	1,208	1,255	1,352	1,191	1,225	1,135	1,011	1,121	1,055	972	r 1,015
(14) Net Imports of Refined (page 9).....	636	1,023	1,117	861	776	643	581	734	519	685	543	661	633	792	648	593	700	961	776	816	r 922
(15) Refined Stocks and Other (page 10).....	587	99	(168)	33	41	(101)	157	68	317	182	181	66	12	2	123	299	172	(164)	57	(57)	r (198)
(16) Consumption of Refined (page 10).....	2,662	2,506	2,327	2,356	2,228	1,817	1,947	1,936	1,940	2,013	1,933	1,982	1,996	1,985	1,996	2,026	1,883	1,917	1,888	1,731	r 1,739

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Included with domestic ore.

Numbers may not sum due to rounding.

Table 1, Item 1.

Copper content of mine production in the United States¹

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Arizona.....	797	761	785	806	923	784	775	828	843	876	980	1,086	1,068	957	883	947	970	956	942	876	r 819
Other States ^(a)	478	496	535	482	521	518	448	399	446	499	510	465	508	431	464	439	355	400	417	366	r 344
TOTAL.....	1,275	1,257	1,319	1,287	1,444	1,302	1,224	1,227	1,290	1,376	1,490	1,551	1,576	1,388	1,347	1,386	1,325	1,356	1,359	1,242	r 1,163

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Includes California, Colorado, Idaho, Illinois, Kentucky, Maine, Michigan, Missouri, Montana, Nevada, New Mexico, Oregon, Pennsylvania, Tennessee, Utah and Washington.

(1) Copper content of concentrates, precipitates, or electrowon.

Numbers may not sum due to rounding.

Table 1, Item 1a.

Copper content of world mine production ⁽¹⁾

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Australasia																					
Australia.....	941	1,010	947	960	974	941	959	1,058	1,015	1,100	1,070	1,062	1,045	948	1,079	1,034	969	875	911	858	r 850
Papua New Guinea.....	191	213	214	187	176	184	176	144	138	116	84	53	88	116	106	116	91	72	84	100	r 107
Total Australasia.....	1,133	1,223	1,161	1,147	1,150	1,125	1,135	1,202	1,153	1,217	1,153	1,115	1,134	1,064	1,185	1,150	1,060	947	994	958	r 957
Americas																					
Argentina.....	194	206	199	199	173	158	155	129	150	121	113	68	90	37	19	—	—	—	—	—	—
Brazil.....	109	144	158	227	243	228	236	238	244	299	324	382	369	424	425	398	402	372	331	420	r 432
Canada.....	620	656	665	657	669	540	579	624	638	697	767	769	780	668	598	631	648	604	573	534	r 495
Chile.....	5,966	5,865	5,909	6,125	5,873	5,941	5,973	5,801	5,990	6,367	6,338	6,363	6,121	6,067	6,428	6,380	6,320	6,200	5,876	5,788	6,069
Ecuador.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	132	139	r 118
Mexico.....	447	473	368	372	272	263	298	485	551	531	568	655	845	818	828	847	808	809	831	771	r 791
Panama.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	386	365	—
Peru.....	1,142	1,113	1,156	1,312	1,398	1,407	1,375	1,362	1,431	1,516	1,521	1,875	2,595	2,696	2,686	2,707	2,370	2,564	2,695	3,037	r 3,010
United States.....	1,275	1,257	1,319	1,288	1,444	1,302	1,224	1,227	1,290	1,376	1,488	1,551	1,576	1,576	1,389	1,412	1,325	1,356	1,356	1,242	r 1,163
Total Americas.....	9,754	9,715	9,774	10,180	10,072	9,838	9,839	9,866	10,294	10,907	11,118	11,662	12,377	12,285	12,374	12,375	11,872	11,905	12,180.2	12,295	r 12,078
Europe																					
Bulgaria.....	104	104	122	121	116	116	116	126	119	121	121	121	121	121	121	121	121	121	116	116	114
Finland.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	22	29
Poland.....	585	564	548	498	473	484	469	470	471	473	464	469	468	462	442	440	433	431	433	436	441
Portugal.....	105	99	87	99	99	96	82	88	81	84	83	90	84	75	54	46	35	42	35	45	r 57
Scandinavia ⁽²⁾	108	112	110	84	78	76	101	107	119	134	135	129	139	174	169	151	149	132	128	81	r 75
Serbia.....	13	14	13	18	21	21	0	—	—	—	—	—	—	—	48	50	51	58	133	225	263
Spain.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	127	114
Total Europe.....	916	893	880	821	786	793	767	791	790	812	803	810	813	880	836	808	796	860	980.1	1,090	r 1,154
Asia																					
Russian Federation.....	694	705	744	761	777	745	775	799	794	799	816	769	755	796	852	871	971	989	986	958	r 1,089
Armenia.....	—	—	—	—	—	—	—	—	—	—	56	91	113	124	84	116	109	108	89	84	87
China.....	977	998	1,126	1,043	1,205	1,171	1,300	1,402	1,642	1,891	1,963	1,881	2,095	1,881	1,754	1,795	1,900	2,004	2,023	2,005	r 2,031
India.....	33	25	32	36	31	33	36	40	33	43	32	33	34	35	38	31	25	29	26	28	30
Indonesia.....	929	1,174	900	870	717	1,098	962	599	439	561	418	638	802	686	718	398	557	829	1,064	1,030	r 1,145
Iran.....	161	181	238	269	273	289	283	334	271	246	239	272	319	333	349	344	346	374	379	359	370
Kazakhstan.....	509	443	479	448	465	448	419	479	460	493	484	489	535	535	699	767	774	702	836	869	r 847
Laos.....	—	—	—	—	—	—	—	—	—	171	176	185	185	169	167	156	97	44	41	55	r 40
Mongolia ⁽³⁾	—	—	—	146	143	142	139	137	137	219	295	366	387	343	336	322	321	335	295	345	388
Philippines.....	18	18	19	24	24	52	65	70	72	102	99	93	92	75	72	78	67	56	66	68	59
Serbia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	324	263	323
Turkiye.....	—	—	—	—	—	—	—	—	—	—	134	119	110	91	88	81	118	121	133	140	140
Total Asia.....	3,322	3,544	3,538	3,598	3,634	3,976	3,979	3,859	3,848	4,525	4,711	4,937	5,426	5,067	5,157	4,958	5,284	5,591	6,263	6,205	r 6,549
Africa																					
Botswana.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38	80	104
Congo DR.....	82	111	141	157	236	332	401	529	619	925	1,008	1,002	1,084	1,169	1,370	1,415	1,679	2,057	2,529	3,009	r 3,448
Namibia.....	15	12	7	11	10	—	—	4	6	5	6	15	18	17	7	17	12	1	0	1	r 10
South Africa.....	96	98	99	107	120	119	113	127	89	84	87	85	72	72	53	58	32	56	55	55	59
Zambia.....	443	477	523	561	612	614	756	864	766	838	776	791	841	875	941	879	940	928	852	789	r 832
Total Africa.....	636	697	769	836	977	1,065	1,270	1,524	1,480	1,852	1,877	1,893	2,015	2,134	2,371	2,369	2,662	3,042	3,474	3,934	r 4,453
Other ⁽⁴⁾	520	548	600	476	509	741	686	720	856	828	716	673	675	881	813	995	1,072	1,109	319	174	r 148
TOTAL WORLD.....	16,281	16,620	16,721	17,057	17,127	17,539	17,676	17,962	18,421	20,141	20,380	21,090	22,439	22,309	22,736	22,655	22,748	23,455	24,210	24,656	r 25,339

Sources: International Copper Study Group

p - preliminary r - revised

(1) Copper content of concentrates, precipitates, or electrowon.

(2) Finland and Sweden reprinted separately starting in 2022. Scandinavia now just represents Sweden.

(3) Mongolia no longer included with China starting in 2007.

(4) Includes countries from various continents, making the continent totals somewhat low.

Numbers may not sum due to rounding.

Table 1, Item 2.

Imports and exports of copper ore, concentrates, matte, ash and precipitates in the United States

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Imports (Ore, Concentrate, Matte, Ash).....	27	2	2	3	2	0	2	17	7	5	0	0	0	16	35	30	2	12	13	4	0	
Exports (Ore, Concentrate, Matte, Ash).....	(51)	(197)	(224)	(217)	(383)	(166)	(151)	(278)	(332)	(384)	(452)	(432)	(365)	(261)	(279)	(400)	(422)	(384)	(389)	(374)	r (358)	
Net Imports (Ore, Concentrate, Matte, Ash) ^(a)	(24)	(195)	(222)	(214)	(381)	(166)	(150)	(261)	(325)	(379)	(452)	(432)	(365)	(246)	(243)	(370)	(420)	(371)	(376)	(370)	r (358)	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - () sign denotes net exports.

Numbers may not sum due to rounding.

Table 1, Item 8.

Smelter production of copper in the United States

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Smelter Production - Domestic Ore (Table 1, Item 6).....	597	577	552	680	630	658	662	593	535	569	575	581	621	518	591	511	347	397	390	417	503	
Smelter Production - Foreign Ore.....	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Smelter Production - Scrap (Table 1, Item 7)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TOTAL SMELTER PRODUCTION.....	597	577	552	680	630	658	662	593	535	569	575	581	621	518	591	511	347	397	390	417	503	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Included with domestic ore.

Numbers may not sum due to rounding.

Table 1, Item 9.

Imports and exports of blister and anode copper in the United States

	Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Imports of Blister/Anode Copper.....	166	146	188	169	136	75	29	1	1	1	1	0	0	1	0	0	0	0	0	0	0	
Exports of Blister/Anode Copper.....	(51)	(46)	(21)	(17)	(26)	(26)	(19)	(16)	(15)	(12)	(13)	(12)	(10)	(11)	(10)	(8)	(7)	(27)	(13)	(33)	(56)	
Net Imports of Blister/Anode Copper.....	115	100	167	152	110	49	10	(15)	(15)	(11)	(12)	(11)	(10)	(10)	(10)	(8)	(7)	(26)	(13)	(33)	(56)	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

Numbers may not sum due to rounding.

Table 1, Item 10.

Blister and anode stocks and other

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
End-of-Year Blister/Anode Copper Stocks....	57	49	21	29	27	17	29	14	14	14	11	15	16	14	10	18	10	18	15	12	11
Net Change ^(a)	(6)	(8)	(28)	8	(2)	(10)	12	(15)	(1)	0	(3)	4	1	(2)	(4)	8	(8)	7	7	4	7
Apparent Change ^(b)	(27)	(45)	(24)	(23)	(51)	9	(22)	(23)	(21)	(14)	(28)	16	(12)	(24)	(12)	(1)	(7)	(77)	(22)	23	(20)

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Net Change - the year-to-year increase (+) or decrease (-) of blister copper stocks as reported.

(b) - Apparent Change - the difference between Line 11 and the sum of Lines 8 & 9 in Table 1, required to rationalize the CDA flow sheet. Factors other than changes in stocks are included in the apparent change.

The sign of the data + or (-) is opposite that shown in Table 1.

Numbers may not sum due to rounding.

Table 1, Item 13.

Production of refined copper in the United States

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Refined Production - Primary Sources (Table 1, Items 1,2,4,9 and 10).....	1,383	1,332	1,328	1,411	1,351	1,224	1,168	1,093	1,060	1,095	1,157	1,202	1,301	1,146	1,179	1,086	963	1,067	1,011	929	r	972
Refined Production - Scrap at Smelters (Table 1, Item 7).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refined Production - Scrap at Refiners (Table 1, Item 12).....	56	52	49	51	60	51	42	41	44	52	51	54	51	44	45	49	48	54	44	43	43	43
TOTAL REFINED PRODUCTION.....	1,439	1,384	1,378	1,462	1,411	1,275	1,210	1,135	1,104	1,146	1,208	1,255	1,352	1,191	1,225	1,135	1,011	1,121	1,055	972	r	1,015

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

Numbers may not sum due to rounding.

Table 1, Item 14.

Imports and exports of refined copper in the United States

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
General Imports of Refined Copper ¹	776	1,077	1,184	917	798	732	667	739	694	809	683	756	780	896	858	731	745	1,013	807	850	1,001	
Total Exports of Refined Copper.....	(140)	(54)	(67)	(56)	(22)	(89)	(86)	(5)	(175)	(125)	(140)	(95)	(148)	(104)	(209)	(138)	(45)	(52)	(30)	(34)	r	(79)
Net Imports of Refined Copper.....	636	1,023	1,117	861	776	643	581	734	519	685	543	661	633	792	648	593	700	961	776	816	r	922

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

¹ General Imports measure the total physical arrivals of merchandise from foreign countries, whether such merchandise enters consumption channels immediately or is entered into bonded warehouses or Foreign Trade Zones under Customs custody.

Numbers may not sum due to rounding.

Table 1, Item 15.

Refined stocks and other

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
End-of year Refined Copper Stocks at:																						
Refineries.....	11	9	31	24	17	26	11	9	14	17	11	13	5	6	4	8	4	6	10	7	r	5
Wire Rod Mills.....	22	22	24	23	25	28	22	26	31	36	46	40	29	31	24	22	12	13	20	19		14
Brass Mills.....	24	27	38	11	9	8	7	8	7	7	7	8	8	9	9	8	9	10	12	11		13
Other Processors.....	4	6	6	6	4	5	5	5	5	5	5	8	8	6	6	8	8	8	7	8	r	8
Government.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Commodity Exchange.....	48	7	34	15	36	99	65	88	71	17	27	70	88	211	110	38	77	70	35	19		93
London Metal Exchange.....	39	1	83	67	117	312	313	315	132	204	112	92	109	30	115	39	20	22	8	77	1	
End-of Year Total.....	148	73	216	146	207	478	423	451	260	285	208	232	248	292	268	122	130	130	91	140	r	135
Net Change ^(a)	(575)	(75)	144	(70)	61	271	(56)	29	(191)	25	(77)	24	14	46	(24)	(146)	8	(1)	(38)	49	r	(6)
Apparent Change ^(b)	(587)	(99)	168	(33)	(41)	101	(157)	(68)	(317)	(182)	(181)	(66)	(12)	(2)	(123)	(299)	(172)	164	(57)	57	r	198

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Net Change - the year-to-year increase (+) or decrease (-)

(b) - Apparent Change - the difference between Line 16 and the sum of Lines 13 and 14 in Table 1, required to rationalize the CDA flow sheet. Factors other than changes in stocks are included in the apparent change. The sign of the data (+) or (-) is opposite that shown in Table 1.

Numbers may not sum due to rounding.

Table 1, Item 16.

Consumption of refined copper in the United States

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Consumption of Refined Copper by:																						
Wire Rod Mills.....	1,962	1,852	1,731	1,775	1,642	1,257	1,378	1,400	1,411	1,444	1,400	1,455	1,455	1,455	1,466	1,499	1,356	1,422	1,378	1,224	1,301	
Brass Mills.....	632	582	540	525	528	500	506	474	467	504	467	465	464	463	462	455	455	457	463	462	392	
Ingot Makers ^(a)	5	5	5	5	3	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Foundries and Other Industries ^(a)	63	67	51	51	55	60	63	62	62	65	65	62	77	67	68	72	72	38	47	46	r 46	
Powder Plants ^(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Other Industries.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TOTAL REFINED CONSUMPTION....	2,662	2,506	2,327	2,356	2,228	1,817	1,947	1,936	1,940	2,013	1,933	1,982	1,996	1,985	1,996	2,026	1,883	1,917	1,888	1,731	r 1,739	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Starting with 1995 Powder Plants data are included with Foundries and Other Industries. Starting in 2009 Ingot Makers data are also included with Foundries and Other Industries.

Numbers may not sum due to rounding.

Table 2.

**Supply of secondary copper from receipt to consumption by brass mills,
ingot makers, foundries, powder plants and other industries**

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
(1) Receipts of Domestic Scrap.....	1,557	1,511	1,623	1,570	1,755	1,648	1,810	2,064	2,023	1,978	1,857	1,730	1,824	1,809	1,699	1,532	1,595	1,689	1,725	1,694	r	
(2) Net Scrap Imports (page 12) ^(a)	(549)	(512)	(628)	(653)	(883)	(850)	(1,033)	(1,246)	(1,202)	(1,158)	(1,024)	(930)	(901)	(925)	(832)	(658)	(730)	(854)	(880)	(837)	r	
(3) Scrap Stocks (page 12).....	(11)	(9)	(2)	20	0	5	31	0	0	1	(2)	0	(54)	(15)	(0)	(0)	24	27	2	2	6	
(4) Recovery from Copper-Base Scrap (page 13)	996	990	992	937	873	803	808	818	821	821	830	800	868	870	868	874	890	863	848	859	r	
(5) Recovery from Other Scrap (page 13)	68	61	77	83	67	51	57	67	70	71	76	74	74	76	76	81	60	62	74	72	74	
(6) Total Scrap Recovery (page 13).....	1,064	1,051	1,069	1,020	940	854	865	885	891	892	906	873	943	946	944	954	950	925	922	932	r	
(7) Smelter Production from Scrap.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(8) Refined Production from Scrap.....	(56)	(52)	(49)	(51)	(60)	(51)	(42)	(41)	(44)	(52)	(51)	(54)	(51)	(44)	(45)	(49)	(48)	(54)	(44)	(43)	-43	
(9) Non-Reported Scrap & Other.....	8	8	8	9	10	9	0	0	0	0	1	1	1	(5)	(0)	(0)	20	37	0	0	0	
(10) Consumption of Scrap (page 13).....	1,016	1,006	1,027	978	890	812	823	843	847	841	856	820	893	897	898	905	922	908	878	889	r	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - () sign denotes net exports.

Numbers may not sum due to rounding.

Table 2, Item 2.

Imports and exports of copper-base scrap in the United States

	Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Imports of Copper-Base Scrap.....	88	100	101	124	117	79	106	121	115	117	129	123	138	182	174	152	126	157	142	131	r	154
Exports of Copper-Base Scrap.....	(637)	(612)	(729)	(777)	(1,000)	(929)	(1,139)	(1,367)	(1,317)	(1,275)	(1,153)	(1,053)	(1,039)	(1,107)	(1,005)	(810)	(855)	(1,011)	(1,022)	(968)	r	(1,052)
Net Imports of Copper-Base Scrap ^(a)	(549)	(512)	(628)	(653)	(883)	(850)	(1,033)	(1,246)	(1,202)	(1,158)	(1,024)	(930)	(901)	(925)	(832)	(658)	(730)	(854)	(880)	(837)	r	(899)

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - The () sign for each year is used to be consistent with the convention used in Tables 1, 2 and 4, namely that imports are **additions** to the domestic flow, and therefore (+), while exports are **subtractions** from the flow, and therefore ().

Numbers may not sum due to rounding.

Table 2, Item 3.

Copper-base scrap stocks

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Scrap Copper-Base Stocks at:																					
Brass Mills.....	51	56	58	40	40	36	1	1	2	4	5	5	2	2	2	2	2	2	2	2	1
Secondary Smelters & Primary Producers...	7	12	12	10	11	8	12	10	11	9	9	9	66	81	81	81	58	33	30	28	22
Foundries.....	4	4	4	4	3	5	5	7	5	5	5	5	5	5	5	5	4	2	3	2	2
Other Processors.....																					
End-of Year Total.....	63	72	74	54	54	49	18	18	18	17	19	19	73	88	88	88	64	36	34	32	26
Net Change ^(a)	11	9	2	(20)	(0)	(5)	(31)	(0)	(0)	(1)	2	(0)	54	15	0	0	(24)	(27)	(2)	(2)	(6)

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Net Change - the year-to-year increase (+) or decrease () of stocks as reported. The sign of the data (+) or () is opposite that shown in Table 2.

Numbers may not sum due to rounding.

Table 2, Item 6.

Recovery of copper from scrap

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Copper Recovered from																					
Copper-Base Scrap.....																					
New Scrap.....	810	805	851	797	726	670	675	681	669	657	685	662	725	743	741	741	756	713	707	731	761
Old Scrap.....	186	185	141	140	147	132	133	137	152	164	145	138	143	127	127	133	133	150	141	128	r 131
Total (Table 2, Item 4).....	996	990	992	937	873	803	808	818	821	821	830	800	868	870	868	874	890	863	848	859	r 892
Copper Recovered from Scrap other than Copper-Base																					
New Scrap.....	43	44	52	50	42	32	33	35	36	37	40	40	41	42	42	45	35	39	40	39	41
Old Scrap.....	25	17	25	33	26	19	24	32	34	34	36	33	33	34	34	36	25	22	34	33	34
Total (Table 2, Item 5).....	68	61	77	83	67	51	57	67	70	71	76	74	74	76	76	81	60	62	74	72	74
Copper Recovered from All Scrap																					
New Scrap.....	853	848	902	846	768	703	708	716	706	694	726	702	766	786	783	786	792	752	746	770	801
Old Scrap.....	211	202	166	173	172	151	158	169	186	198	181	171	176	161	161	169	158	172	175	161	r 165
Total Copper Recovered (Table 2, Item 6)....	1,064	1,051	1,069	1,020	940	854	865	885	891	892	906	873	943	946	944	954	950	925	922	932	r 967

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center
p - preliminary, r - revised
Numbers may not sum due to rounding.

Table 2, Item 10.

Consumption of copper scrap in the United States

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Consumption of Copper Scrap by:																					
Wire Rod Mills.....	29	29	30	28	26	24	25	25	20	20	21	20	22	23	23	23	24	23	23	24	25
Brass Mills.....	748	739	763	710	651	605	608	615	611	604	647	608	663	688	697	697	713	699	693	714	745
Ingot Makers.....	99	104	91	100	87	83	84	86	84	83	62	62	80	63	63	64	64	64	44	44	41
Foundries.....	72	74	66	57	59	49	50	51	63	62	50	54	52	52	40	41	41	41	44	44	39
Powder Plants ^(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chemical Plants ^(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Non-copper based scrap.....	68	61	77	83	67	51	57	67	70	72	77	72	72	76	76	80	62	62	62	62	58
Miscellaneous Adjustments.....	—	—	—	—	—	—	—	—	—	—	—	3	3	(4)	0	5	2	20	12	1	r 17
TOTAL COPPER CONSUMED.....	1,016	1,006	1,027	978	890	812	823	843	848	841	856	820	893	897	898	905	922	908	878	889	r 924

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center
p - preliminary, r - revised
(a) - Starting with 1995 Powder Plants data are included with Foundries.
(b) - Chemical Plants data included with Foundries.
Numbers may not sum due to rounding.

Table 3.

Consumption of metals by wire rod mills, brass mills, ingot makers, foundries, powder plants and other industries

Copper Content, thousands of short tons																							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p		
(1)	Consumption of Refined Copper (Table 1, Item 16)	2,662	2,506	2,327	2,356	2,228	1,817	1,947	1,936	1,940	2,013	1,933	1,982	1,996	1,985	1,996	2,026	1,883	1,917	1,888	1,731	r	1,739
(2)	Consumption of Copper in Scrap (Table 2, Item 10)	1,016	1,006	1,027	978	890	812	823	843	848	841	856	820	893	897	898	905	922	908	878	889	r	924
(3)	Total Copper Consumed (page 15)	3,678	3,512	3,354	3,334	3,118	2,628	2,771	2,780	2,788	2,854	2,789	2,802	2,889	2,882	2,894	2,932	2,806	2,826	2,766	2,620	r	2,663
(4)	Consumption of Zinc.....	284	273	268	253	226	238	236	186	196	166	162	145	134	134	134	133	143	139	129	124	r	119
(5)	Consumption of Lead.....	14	11	11	11	13	12	11	13	10	10	12	11	10	7	7	10	7	6	6	6	r	6
(6)	Consumption of Tin.....	8	9	9	9	8	8	7	11	9	8	7	6	6	5	5	6	4	4	4	4	r	3
(7)	Consumption of Nickel.....	7	7	6	6	5	5	5	2	1	1	2	1	1	0	0	0	0	1	1	1	r	1
(8)	Total Alloying Metal Consumed (page 16)	314	300	295	278	252	263	259	212	217	186	183	164	151	145	145	150	155	150	140	135	r	130
(9)	Total Metal Consumed	3,992	3,812	3,649	3,611	3,371	2,891	3,030	2,991	3,004	3,040	2,972	2,966	3,040	3,027	3,039	3,081	2,961	2,976	2,906	2,755	r	2,792
(10)	Ingot Consumed (page 17) ^(a)	109	102	97	90	84	85	83	68	68	65	65	62	65	65	65	65	65	61	64	61	r	61
(11)	Ingot Stocks & Other ^(a,b)	(17)	(27)	(20)	(38)	(30)	(28)	(23)	(41)	(40)	(38)	(17)	(18)	(32)	(14)	(13)	(16)	(12)	(13)	9	7	r	
(12)	Net Metal Consumed (page 17).....	3,974	3,785	3,629	3,573	3,341	2,863	3,007	2,950	2,965	3,002	2,956	2,948	3,008	3,013	3,027	3,066	2,949	2,963	2,915	2,762	r	2,792
(13)	Wire Rod Mills - Net Metal Consumed (p 17)	1,991	1,881	1,760	1,802	1,668	1,281	1,403	1,425	1,431	1,464	1,421	1,475	1,477	1,478	1,489	1,522	1,379	1,445	1,401	1,247	r	1,325
(14)	Wire Rod Mills - Metal Stocks & Other...	(30)	(201)	(13)	(40)	7	(24)	(36)	(47)	(20)	(9)	1	(31)	(44)	(23)	(32)	(67)	(13)	54	65	43	r	42
(15)	Wire Rod Mills - Shipments.....	1,961	1,680	1,747	1,763	1,676	1,257	1,367	1,378	1,411	1,455	1,422	1,444	1,433	1,455	1,466	1,455	1,367	1,499	1,466	1,290	r	1,367
(16)	Wire Rod - Net Imports.....	208	486	446	159	77	1	(43)	36	(5)	15	10	(19)	(20)	(52)	32	84	70	57	34	53	r	66
(17)	Wire Mills - Net Metal Consumed.....	2,169	2,166	2,193	1,922	1,753	1,257	1,324	1,414	1,406	1,470	1,432	1,425	1,413	1,403	1,498	1,539	1,436	1,556	1,500	1,343	r	1,433
(18)	Wire Mills - Metal Stocks & Other.....	(151)	(109)	(304)	(181)	(207)	151	77	(134)	16	(15)	(10)	30	72	115	72	59	121	148	217	305	r	215
(19)	Wire Mills - Metal Contained in Products Supplied (Table 4, Item 11)	2,018	2,057	1,889	1,741	1,546	1,408	1,401	1,280	1,422	1,455	1,422	1,456	1,486	1,518	1,571	1,598	1,557	1,704	1,717	1,648	r	1,648
(20)	Brass Mills - Net Metal Consumed (p 17)	1,637	1,571	1,547	1,465	1,368	1,285	1,298	1,272	1,260	1,297	1,273	1,215	1,258	1,279	1,286	1,284	1,309	1,295	1,284	1,299	r	1,255
(21)	Brass Mills - Metal Stocks & Other...	82	128	74	(7)	(94)	(344)	(260)	(261)	(276)	(252)	(224)	(232)	(263)	(299)	(284)	(368)	(426)	(311)	(367)	(501)	r	(452)
(22)	Brass Mills - Metal Contained in Products Supplied (Table 4, Item 17).....	1,720	1,699	1,621	1,448	1,274	941	1,038	1,011	983	1,018	1,049	983	995	980	1,003	916	882	984	916	798	r	803
(23)	Foundries - Net Metal Consumed (page 17)	270	264	238	223	230	242	250	186	204	196	184	182	198	185	175	179	179	141	156	153	r	147
(24)	Foundries - Metal Stocks & Other...	(130)	(127)	(108)	(103)	(123)	(149)	(159)	(96)	(117)	(109)	(98)	(99)	(112)	(98)	(85)	(90)	(101)	(58)	(71)	(65)	r	(65)
(25)	Foundries - Metal Contained in Products Supplied	140	138	130	120	108	93	91	90	87	87	87	83	86	87	91	90	78	83	85	87	r	82
(26)	Powder Plants - Net Metal Consumed ^(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	r	(c)
(27)	Powder Plants - Metal Stocks & Other ^(b)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	r	(c)
(28)	Powder Plants - Metal Contained in Products Supplied ^(b)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	r	(c)
(29)	Other Industries - Net Metal Consumed.....	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	r	(c)
	Miscellaneous and Discrepancies	77	70	86	84	67	51	57	67	70	72	77	75	75	71	76	80	82	82	74	63	r	74

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised, NA - not available

(a) - Direct consumption only; not including consumption of copper in ingots from ingot makers.

(b) - Ingot makers consume refined copper, scrap copper and alloying metal and ship to foundries, brass mills, powder plants and other industries.

(c) - Starting with 1995 Powder Plants and Other Industries are combined with "Foundries."

Numbers may not sum due to rounding.

Table 3, Item 3.

**Consumption of copper by wire rod mills, brass mills,
ingot makers, foundries, powder plants and other industries**

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Consumption of Copper by:																						
Wire Rod Mills																						
Refined.....	1,962	1,852	1,731	1,775	1,642	1,257	1,378	1,400	1,411	1,444	1,400	1,455	1,455	1,455	1,466	1,499	1,356	1,422	1,378	1,224	1,301	
Scrap.....	29	29	30	28	26	24	25	25	20	20	21	20	22	23	23	23	24	23	23	24	25	
Total.....	1,991	1,881	1,760	1,802	1,668	1,281	1,403	1,425	1,431	1,464	1,421	1,475	1,477	1,478	1,489	1,522	1,379	1,445	1,401	1,247	1,325	
Brass Mills ^(a)																						
Refined.....	632	582	540	525	528	500	506	474	467	504	467	465	464	463	462	455	455	457	463	462	392	
Scrap.....	748	739	763	710	651	605	608	615	611	604	647	608	663	688	697	697	713	699	693	714	745	
Total.....	1,380	1,321	1,303	1,235	1,179	1,105	1,114	1,089	1,078	1,108	1,114	1,073	1,127	1,151	1,158	1,153	1,168	1,156	1,156	1,176	1,137	
Ingot Makers ^(b)																						
Refined.....	5	5	5	5	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Scrap.....	99	104	91	100	87	83	84	86	84	83	62	62	80	64	63	64	64	64	44	44	41	
Total.....	104	109	96	105	90	83	84	86	84	83	62	62	80	64	63	64	64	64	44	44	41	
Foundries and Other Industries ^(a,c)																						
Refined.....	63	67	51	51	55	60	63	62	62	65	65	62	77	67	68	72	72	38	47	46	r 46	
Scrap.....	63	65	57	51	52	44	50	51	63	62	50	54	52	52	40	41	41	41	44	44	39	
Total.....	127	132	109	103	107	104	113	113	125	127	115	116	129	119	109	113	113	79	91	90	r 85	
Powder Plants ^(c)																						
Refined.....	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	
Scrap.....	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	
Total.....	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	
Miscellaneous ^(d)																						
Refined.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Scrap.....	77	70	86	89	74	56	57	67	70	72	77	75	75	71	76	80	82	82	74	63	r 74	
Total.....	77	70	86	89	74	56	57	67	70	72	77	75	75	71	76	80	82	82	74	63	r 74	
All Industries																						
Refined (Table1, Item 16)	2,662	2,506	2,327	2,356	2,228	1,817	1,947	1,936	1,940	2,013	1,933	1,982	1,996	1,985	1,996	2,026	1,883	1,917	1,888	1,731	r 1,739	
Scrap (Table 2, Item 10)	1,016	1,006	1,027	978	890	812	823	843	848	841	856	820	893	897	898	905	922	908	878	889	r 924	
TOTAL COPPER CONSUMED (Table 3, Item 3)...	3,678	3,512	3,354	3,334	3,118	2,628	2,771	2,780	2,788	2,854	2,789	2,802	2,889	2,882	2,894	2,932	2,806	2,826	2,766	2,620	r 2,663	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Direct consumption only; not including consumption of copper in ingots from ingot makers.

(b) - Ingot makers consume refined copper, scrap copper and alloying metal and ship to foundries, brass mills, powder plants and other industries.

(c) - Starting with 1995 Powder Plants data are included with "Foundries and Other Industries."

(d) - Miscellaneous - reconciles discrepancies between USGS reports.

Numbers may not sum due to rounding.

Table 3, Item 8.

Consumption of alloying metal by brass mills, ingot makers, foundries and powder plants

Copper Content, thousands of short tons																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Consumption of Alloying Metal by:																					
Brass Mills ^(a)																					
Zinc:Unalloyed & in Secondary Copper Alloys	241	236	230	209	179	170	176	173	174	154	150	134	125	125	125	125	136	133	122	118	113
Lead:Unalloyed & in Secondary Copper Alloys	7	4	4	3	3	3	3	4	4	4	6	5	4	2	2	5	4	3	3	3	3
Tin:Unalloyed & in Secondary Copper Alloys	2	3	4	3	2	2	2	5	3	2	2	1	1	1	1	2	1	1	1	1	1
Nickel:Unalloyed & in Secondary Copper Alloys	7	7	6	5	5	5	3	1	1	1	1	1	1	-	-	-	-	1	1	1	1
Total	256	250	243	221	189	180	184	183	182	162	159	141	131	128	128	131	141	138	127	123	118
Ingot Makers																					
Zinc:Unalloyed & in Secondary Copper Alloys	12	10	10	12	10	17	10	10	13	10	10	9	8	8	8	8	7	5	6	6	5
Lead:Unalloyed & in Secondary Copper Alloys	6	6	6	7	9	9	7	8	6	6	6	5	5	4	4	5	3	3	3	3	3
Tin:Unalloyed & in Secondary Copper Alloys	4	4	4	5	5	4	4	5	4	4	4	4	4	3	3	4	3	2	2	2	2
Nickel:Unalloyed	0	0	0	-	0	0	1	0	0	0	0	0	0	0	-	-	-	-	-	-	-
Total	22	20	20	24	24	30	22	23	23	20	20	18	16	15	15	17	13	11	11	11	11
Foundries and Other Industries ^(a)																					
Zinc:Unalloyed & in Secondary Copper Alloys	32	27	28	32	37	51	50	2	9	2	2	2	2	1	1	1	1	1	1	1	1
Lead:Unalloyed & in Secondary Copper Alloys	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Tin:Unalloyed & in Secondary Copper Alloys	2	2	2	1	1	1	1	2	2	2	1	1	1	0	0	1	0	0	0	0	0
Nickel:Unalloyed	0	0	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	35	30	31	33	39	54	53	5	12	4	4	4	4	2	2	2	1	1	1	1	1
Powder Plants ^(a)																					
Total	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
All Industries																					
Zinc: Unalloyed & in Secondary Copper Alloys	284	273	268	253	226	238	236	186	196	166	162	145	134	134	133.7	133.4	143.3	139	129	124	119
Lead: Unalloyed & in Secondary Copper Alloys	14	11	11	11	13	12	11	13	10	10	12	11	10	7	7	10	7	6	6	6	6
Tin: Unalloyed & in Secondary Copper Alloys	8	9	9	9	8	8	7	11	9	8	7	6	6	4	5	6	4	4	4	4	3
Nickel: Unalloyed & in Secondary Copper Alloys	7	7	6	5	5	5	5	2	1	1	2	1	1	0	0	0	0	1	1	1	1
TOTAL ALLOYING METAL CONSUMED (Table 3, Item 8)	314	300	295	278	252	263	259	212	217	186	183	164	151	145	145	150	155	150	140	135	130

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center
p - preliminary, r - revised

(a) - Direct consumption only; not including consumption of alloying metal in ingots from ingot makers.

(b) - Starting with 1995 Powder Plants data are included with "Foundries and Other Industries."

Numbers may not sum due to rounding.

Table 3, Item 12.

Net consumption of metals by wire rod mills, brass mills, foundries, powder plants and other industries

Copper Content, thousands of short tons																						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p	
Net Metal Consumed by:																						
Wire Rod Mills - Copper (Table 3, Item 13).....	1,991	1,881	1,760	1,802	1,668	1,281	1,403	1,425	1,431	1,464	1,421	1,475	1,477	1,478	1,489	1,522	1,379	1,445	1,401	1,247	1,325	
Brass Mills																						
Copper.....	1,380	1,321	1,303	1,235	1,179	1,105	1,114	1,089	1,078	1,108	1,114	1,073	1,127	1,151	1,158	1,153	1,168	1,156	1,156	1,176	1,137	
Alloy.....	256	250	243	221	189	180	184	183	182	162	159	141	131	128	128	131	141	138	127	123	118	
Ingot.....	2																					
Total (Table 3, Item 20).....	1,637	1,571	1,547	1,455	1,368	1,285	1,298	1,272	1,260	1,270	1,273	1,215	1,258	1,279	1,286	1,284	1,309	1,295	1,284	1,299	1,255	
Foundries ^(a)																						
Copper.....	128	132	110	108	107	104	113	113	125	127	115	116	129	119	109	113	113	79	91	90	r 85	
Alloy.....	35	30	31	33	39	54	53	5	12	4	4	4	4	2	2	2	1	1	1	1	1	
Ingot.....	109	102	97	90	84	85	83	68	68	65	65	62	65	65	65	65	65	61.18	64	61	r 61	
Total (Table 3, Item 23).....	272	264	238	232	230	242	250	186	204	196	184	183	198	185	175	179	179	141	156	153	r 147	
Powder Plants ^(a)																						
Other Industries ^(a)																						
Total (Table 3, Item 23)...	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Misc. and Discrepancies																						
Copper (Table 3, Item 29)...	77	70	86	84	74	56	57	67	70	72	77	75	75	71	76	80	82	82	74	63	r 74	
All Industries																						
Copper.....	3,575	3,403	3,258	3,229	3,029	2,545	2,687	2,694	2,703	2,771	2,727	2,740	2,808	2,819	2,832	2,868	2,742	2,762	2,722	2,576	r 2,621	
Alloy.....	291	280	274	254	228	233	237	188	193	166	163	146	135	130	130	133	142	140	129	124	119	
Ingot (Table 3, Item 10) ^(b)	109	102	97	90	84	85	83	68	68	65	65	62	65	65	65	65	65	61	64	61	r 61	
NET METAL CONSUMED																						
(Table 3, Item 12).....	3,974	3,785	3,629	3,573	3,341	2,863	3,007	2,950	2,965	3,002	2,956	2,948	3,008	3,013	3,027	3,066	2,949	2,963	2,915	2,762	r 2,801	

Source: U.S. Department of the Interior, U.S. Geological Survey, National Minerals Information Center

p - preliminary, r - revised

(a) - Starting with 1995 Powder Plants and Other Industries data are included with "Foundries."

(b) - Total consumption of ingot shown here is less than the consumption of metal by ingot makers shown in the details of Table 3, Item 3, and Table 3, Item 8. The difference, shown as Ingot Stocks & Other in Table 3, is partially melting and other losses in the making of ingot.

Numbers may not sum due to rounding.

Table 4.

Metal Content, millions of pounds																							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p		
(1)	Bare Wire.....	260	255	225	200	175	170	165	160	166	167	150	170	180	184	190	194	189	195	197	189		
(2)	Telecommunications Cable.....	366	375	359	292	225	177	168	160	163	163	155	156	162	171	177	178	165	165	175	167		
(3)	Electronic Wire and Cable.....	255	256	265	290	210	155	150	145	148	151	148	147	149	154	161	170	176	186	188	191		
(4)	Building Wire.....	1,664	1,700	1,533	1,426	1,259	1,177	1,059	1,005	1,020	1,035	1,031	1,052	1,073	1,100	1,131	1,179	1,262	1,489	1,429	1,286		
(5)	Magnet Wire.....	570	532	536	493	443	400	380	360	367	380	361	370	384	405	420	421	391	391	416	396		
(6)	Power Cable.....	300	372	315	249	326	352	335	315	326	335	328	328	307	290	294	302	268	276	285	281		
(7)	Apparatus Wire and Cordage.....	140	140	89	86	124	102	100	95	97	98	95	96	101	106	112	113	105	109	112	109		
(8)	Automotive Wire and Cable (except Magnet).....	410	403	400	398	330	283	406	443	518	540	538	554	576	589	615	599	520	556	590	635		
(9)	Other Insulated Wire and Cable.....	85	93	119	90	54	43	40	38	39	40	38	38	38	39	39	41	40	41	42	41		
(10)	Total Insulated Wire and Cable.....	3,790	3,871	3,616	3,324	2,972	2,690	2,638	2,561	2,678	2,742	2,694	2,741	2,791	2,852	2,951	3,003	2,926	3,212	3,237	3,106		
(11)	Total Wire Mill Products^(a).....	4,050	4,126	3,841	3,524	3,147	2,860	2,803	2,721	2,844	2,909	2,844	2,911	2,971	3,036	3,141	3,196	3,114	3,407	3,434	3,295		
(12)	Strip, Sheet, Plate and Foil.....	1,068	1,035	1,067	999	928.3	692	794	740	738	816	761	790	788	753	753	676	658	728	722	631		
(13)	Mechanical Wire ^(b)	80	75	72	48	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)		
(14)	Rod and Bar.....	1,059	1,032	1,022	879	993	562	672	675	636	641	702	605	625	639	662	600	562	642	585	548		
(15)	Tube and Pipe ^(c)	1,233	1,256	1,080	953	812	619	607	608	574	579	567	568	578	568	591	555	545	598	526	416		
(16)	Total Brass Mill Products (page 19).....	4,339	3,397	3,241	2,879	2,533	1,873	2,073	2,023	1,948	2,035	2,030	1,963	1,991	1,961	2,005	1,831	1,765	1,968	1,832	1,595		
(17)	Total Foundry Products.....	230	225	215	200	180	160	150	145	140	140	138	130	136	138	145	142	128	136	141	147		
(18)	Total Powder Products.....	50	50	45	40	35	27	32	34	34	34	35	36	36	36	37	37	28	30	29	28		
(19)	Domestic Products - Total.....	7,769	7,799	7,342	6,634	5,895	4,919	5,058	4,923	4,966	5,118	5,047	5,040	5,134	5,171	5,328	5,207	5,035	5,541	5,436	5,065		
(20)	Net Imports of Mill Products (page 20).....	297	224	295	288	261	166	118	173	226	166	280	287	331	391	445	510	602	707	1,095	821		
(21)	Mill Products to Domestic Market.....	8,066	8,022	7,637	6,931	6,156	5,085	5,176	5,096	5,191	5,284	5,326	5,327	5,465	5,562	5,773	5,717	5,636	6,249	6,531	5,886		
(22)	Building Construction.....	4,035	4,028	6,697	3,965	3,051	2,478	2,378	2,291	2,299	2,384	2,401	2,406	2,458	2,525	2,487	2,483	2,570	2,907	2,919	2,644		
(23)	Electrical and Electronic Products.....	1,569	1,525	1,535	1,400	1,274	1,018	1,059	1,037	1,024	966	976	953	1,033	1,038	1,156	1,179	1,181	1,286	1,436	1,359		
(24)	Industrial Machinery and Equipment.....	682	701	682	575	494	432	430	377	358	378	383	359	351	352	395	397	377	412	451	420		
(25)	Transportation Equipment.....	991	974	947	854	702	621	768	819	915	980	983	987	992	1,068	1,134	1,084	920	1,009	1,065	1,073		
(26)	Consumer and General Products.....	836	794	778	737	634	536	601	592	596	597	584	622	630	580	601	574	589	635	661	570		

Sources: Copper Development Association; U.S. Department of Commerce, Bureau of the Census; Metal Powder Industries Federation; U.S. International Trade Administration; and the Federal Reserve Board.

Numbers may not sum due to rounding.

p - preliminary, r - revised

(a) - Copper content

(b) - Rod and bar and mechanical wire data combined starting 2008

(c) - Comercial tube and plumbing tube data combined.

(d) - Powder product shipments reference only structural metallurgy products and DO NOT include powder used for plating, pigments, chemicals and other miscellaneous uses

* Markets include:

Building Construction - Building Wire; Plumbing & Heating; Air Conditioning & Commercial Refrigeration; Builders Hardware; Architectural

Electrical and Electronic Products - Power Utilities; Telecommunications; Business Electronics; Lighting & Wiring Devices

Industrial Machinery and Equipment - In-Plant Equipment; Industrial Valves & Fittings; Non-Electrical Instruments; Off-Highway Vehicles; Heat Exchangers

Transportation Equipment - Automobile; Truck & Bus; Railroad; Marine; Aircraft & Aerospace

Consumer and General Products - Appliances: Cord Sets: Military & Commercial Ordnance: Consumer Electronics: Fasteners & Closures: Coinage: Utensils & Cultery: Miscellaneous NEC

Table 4, Item 16.

Supply of brass mill products in the United States

Metal Content, millions of pounds																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Strip, Sheet, Plate and Foil																					
Copper.....	390	391	394	378	343	224	240	236	234	258	258	287	284	261	255	233	240	245	274	264	269
Alloy.....	677	644	673	621	586	468	554	504	504	558	504	504	504	493	498	443	418	483	448	367	347
Total.....	1,068	1,035	1,067	999	928	692	794	740	738	816	761	790	788	753	753	676	658	728	722	631	616
Mechanical Wire																					
Copper.....	19	18	14	11	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Alloy.....	61	57	58	37	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Total.....	80	75	72	48	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Rod and Bar ^(a)																					
Copper.....	205	212	211	184	173	133	158	167	151	163	180	143	159	168	183	171	168	176	170	173	199
Alloy.....	854	820	812	695	620	428	515	508	485	478	522	462	466	471	479	430	394	466	415	376	367
Total.....	1,059	1,032	1,022	879	793	562	672	675	636	641	702	605	625	639	662	600	562	642	585	548	566
Tube and Pipe ^(b)																					
Copper.....	1,218	1,243	1,066	940	800	610	596	597	565	570	559	562	572	562	584	549	539	592	519	411	417
Alloy.....	15	13	14	13	12	9	11	11	9	8	8	7	6	6	7	6	6	6	7	5	6
Total.....	1,233	1,256	1,080	953	812	619	607	608	574	579	567	568	578	568	591	555	545	598	526	416	423
All Mill Products																					
Copper.....	1,832	1,863	1,685	1,512	1,315	968	993	1,000	951	991	997	991	1,015	991	1,021	952	947	1,014	962	847	885
Alloy.....	1,607	1,534	1,556	1,367	1,218	906	1,080	1,023	997	1,044	1,033	973	976	970	984	879	817	955	870	748	720
TOTAL BRASS MILL PRODUCTS	3,439	3,397	3,241	2,879	2,533	1,873	2,073	2,023	1,948	2,035	2,030	1,963	1,991	1,961	2,005	1,831	1,765	1,968	1,832	1,595	1,605

Sources: Copper Development Association

(a) - Copper and alloy rod and bar and mechanical wire data combined starting 2008.

(b) - Commercial tube and plumbing tube data combined.

Numbers may not sum due to rounding.

Table 4, Item 16a.

Supply of brass mill products in selected countries

Metal Content, millions of pounds																					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p
Benelux.....	266	266	266	277	278	263	273	276	281	276	274	272	263	290	279	238	214	273	282	285	291
France.....	227	201	498	421	382	254	274	251	251	261	263	266	270	282	287	291	268	287	294	296	300
Germany.....	2,561	2,510	2,585	4,096	3,909	2,982	3,650	3,597	3,306	3,391	3,526	3,590	3,753	3,765	3,640	2,417	1,526	1,566	1,594	1,591	1,587
Italy.....	1,682	1,369	2,020	1,836	1,584	862	1,137	1,106	1,124	1,378	1,368	1,381	1,393	1,478	1,567	1,499	1,451	1,800	1,867	1,884	1,897
Japan.....	2,290	2,075	2,296	2,200	1,497	1,436	1,756	1,721	1,686	1,701	1,792	1,681	1,649	1,598	1,728	1,597	1,478	1,637	1,653	1,685	1,686
Mexico.....	319	276	229	258	232	302	251	327	277	259	262	266	283	286	280	297	273	253	261	269	273
Scandinavia.....	469	464	478	381	437	349	383	393	391	381	408	393	395	418	438	386	439	413	425	426	425
Spain.....	166	194	185	194	198	204	225	215	258	178	217	216	216	212	219	195	195	176	158	1	1
Turkey.....	88	144	160	141	121	46	65	65	66	70	70	70	70	65	65	65	65	69	162	167	
United Kingdom.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	74
United States.....	3,439	3,397	3,241	2,896	2,533	1,873	2,073	2,023	1,948	2,035	2,030	1,963	1,991	1,961	2,005	1,831	1,765	1,968	1,832	1,595	1,605

Sources: International Copper Study Group

p - preliminary, r - revised, NA - not available

Numbers may not sum due to rounding.

Table 4, Item 20.

Imports and exports of wire mill, brass mill and powder products

Metal Content, millions of pounds																							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023r	2024p		
Imports of:																							
Bare Wire (including Stranded).....	42	56	39	38	43	29	36	40	44	55	50	30	31	27	32	47	48	49	61	73	r	64	
Insulated Wire and Cable.....	334	405	418	417	362	301	334	380	421	432	478	487	487	542	550	540	566	639	874	757	r	746	
Total Wire Mill Products⁽¹⁾.....	376	461	457	455	405	330	370	420	464	487	529	517	517	569	582	587	614	687	935	831	r	810	
Copper-Strip, Sheet, Plate and Foil.....	145	117	126	89	91	66	88	90	88	70	77	74	72	82	96	101	85	106	140	138	r	162	
Rod and Bar.....	54	53	54	69	52	33	46	51	50	51	54	43	35	38	41	37	32	40	53	42	r	61	
Tube and Pipe.....	202	202	281	256	260	198	167	136	135	143	161	148	150	155	159	161	184	190	246	175	r	226	
Alloy-Strip, Sheet, Plate and Foil.....	119	95	92	74	61	43	65	61	65	75	81	81	83	88	96	76	74	111	136	84	r	91	
Mechanical Wire.....	41	35	36	33	36	22	35	33	41	37	39	43	37	40	41	37	30	39	40	31	r	30	
Rod and Bar.....	85	65	68	57	70	43	70	79	84	86	83	73	56	69	69	63	52	63	66	61	r	57	
Tube and Pipe.....	131	120	123	108	104	75	92	101	93	94	103	98	99	98	113	108	98	118	129	98	r	108	
Total Brass Mill Products.....	777	687	779	688	674	480	564	551	556	555	599	560	532	570	616	583	556	666	809	630	r	735	
Total Powder Products.....	6	8	10	10	8	7	9	9	8	8	9	9	8	8	7	5	6	6	5	4	r	6	
TOTAL IMPORTS.....	1,160	1,156	1,246	1,153	1,086	816	943	980	1,028	1,050	1,136	1,085	1,058	1,148	1,206	1,177	1,175	1,359	1,749	1,465	r	1,552	
Exports of: ⁽¹⁾																							
Bare Wire (including Stranded).....	99	107	102	103	88	66	88	90	113	157	135	114	97	94	105	89	67	76	73	88	r	83	
Insulated Wire and Cable.....	386	401	432	382	400	336	458	444	421	434	432	408	355	373	373	331	276	310	319	307	r	255	
Total Wire Mill Products⁽¹⁾.....	485	508	534	485	488	402	546	534	591	567	523	452	466	477	420	344	386	393	395	r	338		
Copper-Strip, Sheet, Plate and Foil.....	38	34	36	32	32	25	37	37	37	36	38	36	38	41	41	36	35	45	45	45	r	48	
Rod and Bar.....	21	33	37	40	44	26	23	31	32	29	26	26	28	27	22	19	21	22	21	21	r	23	
Tube and Pipe.....	74	75	76	77	48	51	40	48	41	41	35	32	31	32	41	35	34	44	50	44	r	47	
Alloy-Strip, Sheet, Plate and Foil.....	72	96	81	72	71	58	65	56	62	75	75	59	60	68	59	40	31	36	44	37	r	38	
Mechanical Wire.....	20	21	29	34	33	23	27	25	24	24	21	25	23	21	16	13	9	14	12	12	r	11	
Rod and Bar.....	88	95	95	64	50	22	27	25	23	39	41	43	44	50	52	51	49	60	51	40	r	33	
Tube and Pipe.....	43	44	39	35	40	29	36	33	31	32	35	37	36	35	37	40	39	29	23	27	r	23	
Total Brass Mill Products.....	356	397	391	355	318	233	255	255	249	275	272	258	259	274	267	234	218	251	246	226	r	223	
Total Powder Products.....	21	27	26	25	19	15	24	18	18	18	18	18	16	17	16	13	12	14	15	23	r	11	
TOTAL EXPORTS.....	862	932	951	865	825	650	825	807	802	884	857	798	727	757	761	667	574	651	654	644	r	572	
NET IMPORTS (Table 4, Item 20)	297	224	295	288	261	166	118	173	226	166	280	287	331	391	445	510	602	707	1,095	821	r	980	

Source: U.S. International Trade Commission

p - preliminary, r - revised

(1) - In previous additions, wire rod exports were included in the table. Starting with 1999, net wire rod imports are shown as line 16 on table 3, page 14. Appropriate adjustments have been made for all years.

Note: Changes to the trade dataset are made from time to time as the USITC adds, collapses, or sometimes stops collecting data for certain Harmonized Tariff codes.

Numbers may not sum due to rounding.



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