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# Annual Data 2010

**COPPER • BRASS • BRONZE**

**Copper Supply  
& Consumption**

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**1989–2009**

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# 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 and Global Market Consultants, Inc. (GMC) 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 are the U.S. Geological Survey in the U.S. Department of the Interior, the Bureau of the Census in the U.S. Department of Commerce, 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 the wire rod and wire mills, brass mills, and foundries and then on 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 2009 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 1989 through 2009, will be found. Most data for 2009 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. These three tables are provided by GMC based on data from American Bureau of Metal Statistics and other sources.

Finally, **Table 4** details the supply of mill, foundry and powder products and their consumption in the 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 1,299 thousand short tons in 2009. 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 1989 through 2009. 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 1989 through 2009. In this way all the data on supply and consumption appear in logical sequence proceeding through the report, eliminating the need for explanatory text.

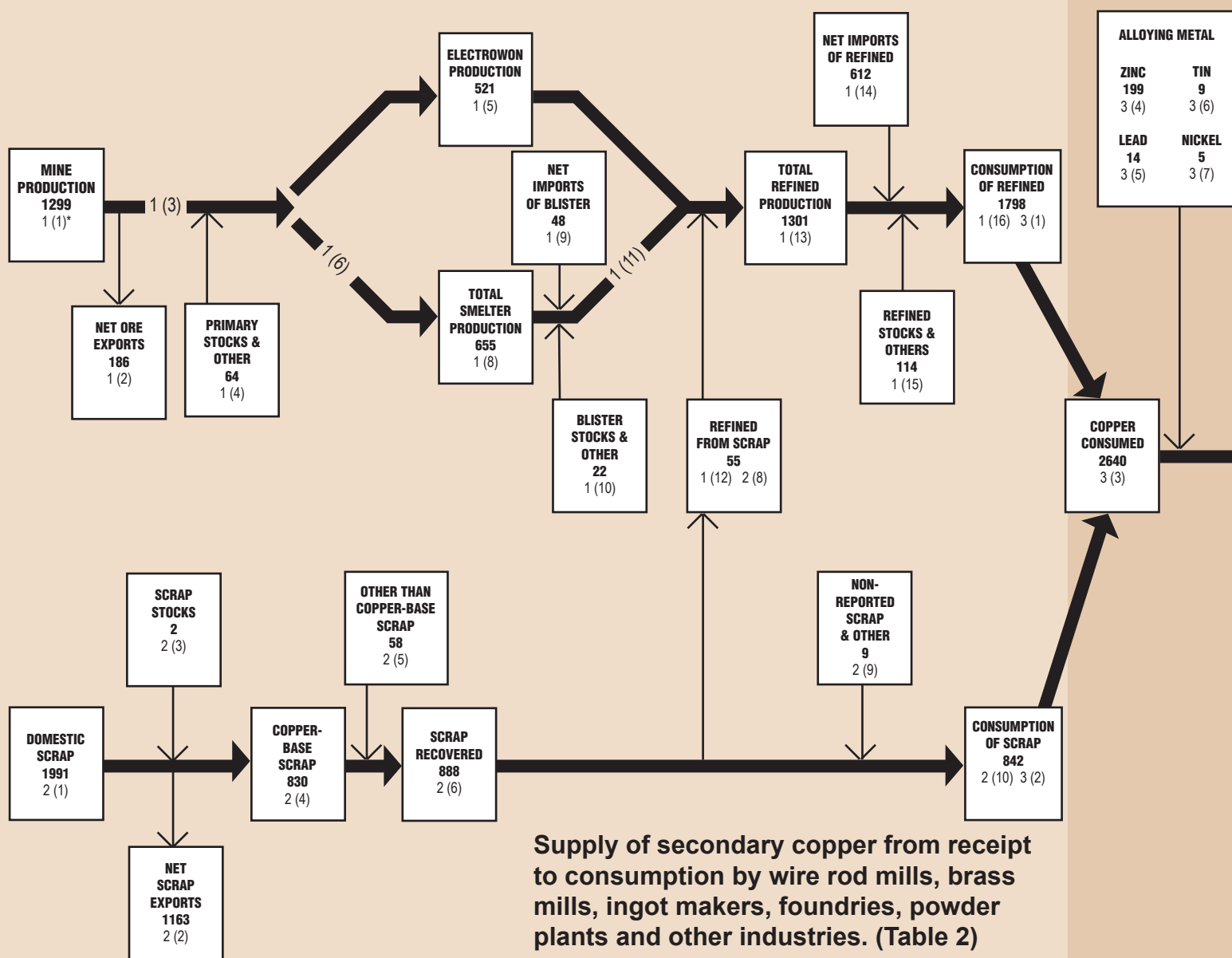
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# Copper supply and consumption in the United States – 2009

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



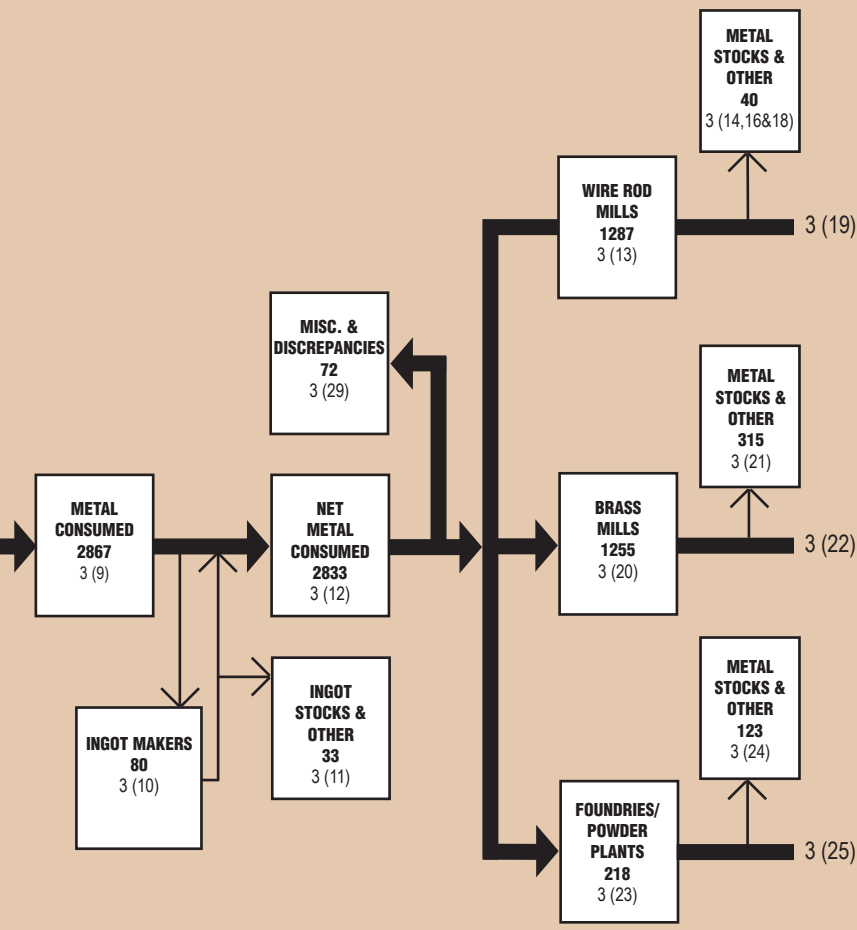
COPPER CONTENT, thousands of short tons

\*1 (1) Refers to table and item in report where data for 1989 through 2009 appear.

Note: Numbers may not sum due to rounding.

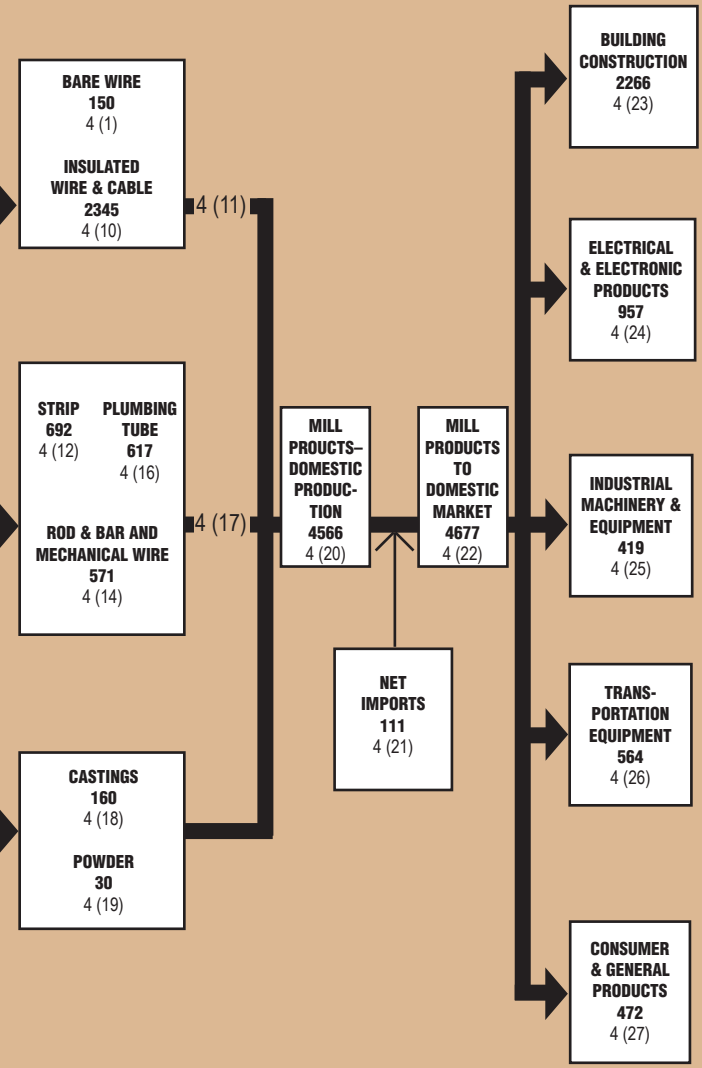
**Consumption of metals by wire rod mills, brass mills, ingot makers, foundries, powder plants and other industries. (Table 3)**

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**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
(1) Mine Production (page 6).....	1,651	1,750	1,798	1,946	1,984	2,039	2,040	2,116	2,138	2,051	1,763	1,598	1,477	1,256	1,230	1,275	1,257	1,319	1,287	1,444	1,299
(2) Net Ore/Conc./Matte Imports (page 8) <sup>(a)</sup> .....	(252)	(128)	(198)	(186)	(211)	(200)	(159)	(174)	(153)	177	50	(225)	(24)	36	4	(24)	(195)	(222)	(214)	(381) r	(186)
(3) Total Primary.....	1,399	1,622	1,600	1,760	1,773	1,839	1,881	1,942	1,985	2,228	1,813	1,373	1,453	1,292	1,234	1,251	1,062	1,097	1,074	1,063 r	1,113
(4) Primary Stocks and Other.....	180	88	125	104	168	148	91	113	248	85	35	185	164	123	12	(10)	126	39	162	127 r	64
(5) Electrowon Production.....	344	434	486	563	541	543	594	633	646	671	646	613	692	662	652	644	611	584	556	560 r	521
(6) Smelter Production from Primary.....	1,235	1,277	1,238	1,301	1,400	1,444	1,378	1,422	1,587	1,642	1,202	945	925	753	594	597	577	552	680	630 r	655
(7) Smelter Production from Scrap.....	396	336	402	434	452	441	390	374	314	256	226	157	88	—	—	—	—	—	—	—	—
(8) Total Smelter Production (page 8).....	1,631	1,613	1,639	1,735	1,852	1,885	1,768	1,796	1,901	1,898	1,428	1,102	1,013	753	594	597	577	552	680	630 r	655
(9) Net Imports of Blister/Anode (page 8).....	79	42	43	46	95	72	72	155	123	135	179	178	270	127	144	115	100	167	152	110 r	48
(10) Blister/Anode Stocks and Other (page 9).....	(30)	(14)	(29)	(92)	(144)	(177)	(70)	(154)	(133)	(125)	5	(3)	(87)	48	(9)	27	45	24	23	51 r	22
(11) Refined Production from Blister/Anode.....	1,680	1,640	1,654	1,688	1,803	1,780	1,770	1,797	1,891	1,908	1,612	1,277	1,196	928	729	740	721	744	855	791 r	724
(12) Refined Production from Scrap.....	133	150	59	113	136	135	151	168	180	162	81	87	72	77	59	56	52	49	51	60 r	55
(13) Total Refined Production (page 9).....	2,157	2,224	2,199	2,363	2,480	2,458	2,515	2,598	2,717	2,741	2,339	1,977	1,960	1,667	1,440	1,439	1,384	1,378	1,462	1,411 r	1,301
(14) Net Imports of Refined (page 9).....	175	54	19	110	139	338	233	497	611	703	981	1,019	1,295	1,136	622	636	1,023	1,117	861	776 r	612
(15) Refined Stocks and Other (page 10).....	100	86	36	(76)	(18)	158	51	(210)	(254)	(263)	(29)	339	(368)	(197)	462	587	99	(168)	33	41 r	(115)
(16) Consumption of Refined (page 10).....	<b>2,432</b>	<b>2,364</b>	<b>2,254</b>	<b>2,397</b>	<b>2,602</b>	<b>2,954</b>	<b>2,799</b>	<b>2,885</b>	<b>3,074</b>	<b>3,181</b>	<b>3,291</b>	<b>3,335</b>	<b>2,887</b>	<b>2,606</b>	<b>2,524</b>	<b>2,662</b>	<b>2,506</b>	<b>2,327</b>	<b>2,356</b>	<b>2,228 r</b>	<b>1,798</b>

Sources: U.S. Department of the Interior, U.S. Geological Survey; U.S. Department of Commerce, Bureau of the Census; ABMS; Global Market Consultants, Inc.

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 States<sup>1</sup>**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Arizona.....	990	1,079	1,129	1,271	1,279	1,279	1,290	1,367	1,378	1,312	1,157	1,024	969	845	817	797	761	785	806	923 r	780
Other States <sup>(a)</sup> .....	661	671	669	675	706	761	750	749	760	739	606	574	508	411	413	478	496	535	482	521 r	518
<b>TOTAL.....</b>	<b>1,651</b>	<b>1,750</b>	<b>1,798</b>	<b>1,946</b>	<b>1,984</b>	<b>2,039</b>	<b>2,040</b>	<b>2,116</b>	<b>2,138</b>	<b>2,051</b>	<b>1,763</b>	<b>1,598</b>	<b>1,477</b>	<b>1,256</b>	<b>1,230</b>	<b>1,275</b>	<b>1,257</b>	<b>1,319</b>	<b>1,407</b>	<b>1,444</b>	<b>1,298</b>

Sources: U.S. Department of the Interior, U.S. Geological Survey; ABMS; Global Market Consultants, Inc.

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<sup>1</sup>

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>p</sup>
<b>Australasia</b>																					
Australia.....	325	361	353	417	443	458	438	603	615	669	792	914	960	968	915	941	1,010	947	960	974 r	947
Papua New Guinea.....	225	188	225	213	224	228	234	205	123	167	207	224	225	233	216	191	213	214	187	176	184
<b>Total Australasia.....</b>	<b>550</b>	<b>548</b>	<b>578</b>	<b>630</b>	<b>667</b>	<b>686</b>	<b>673</b>	<b>808</b>	<b>738</b>	<b>836</b>	<b>999</b>	<b>1,138</b>	<b>1,185</b>	<b>1,201</b>	<b>1,131</b>	<b>1,133</b>	<b>1,223</b>	<b>1,161</b>	<b>1,147</b>	<b>1,150 r</b>	<b>1,131</b>
<b>Americas</b>																					
Argentina.....	—	—	—	—	—	—	—	—	34	171	220	160	211	225	219	194	206	199	199	173	158
Brazil.....	49	40	42	44	48	44	53	48	43	42	32	34	33	34	30	109	144	158	219	232	236
Canada.....	797	875	894	847	808	681	801	759	727	777	684	699	698	665	615	620	656	665	657	669	545
Chile.....	1,774	1,751	2,000	2,130	2,266	2,447	2,743	3,435	3,739	4,064	4,840	5,073	5,224	5,049	5,406	5,966	5,865	5,909	6,125	5,876	5,941
Mexico.....	275	321	294	306	332	337	368	376	431	424	420	402	409	363	394	447	473	368	372	272	263
Peru.....	402	350	414	407	413	397	452	534	560	533	591	611	796	931	929	1,142	1,113	1,156	1,312	1,398	1,405
United States.....	1,651	1,750	1,798	1,946	1,984	2,039	2,040	2,116	2,138	2,051	1,763	1,598	1,477	1,256	1,230	1,275	1,257	1,319	1,288 r	1,442 r	1,299
<b>Total Americas.....</b>	<b>4,947</b>	<b>5,087</b>	<b>5,442</b>	<b>5,680</b>	<b>5,851</b>	<b>5,944</b>	<b>6,500</b>	<b>7,304</b>	<b>7,714</b>	<b>8,089</b>	<b>8,550</b>	<b>8,577</b>	<b>8,848</b>	<b>8,523</b>	<b>8,823</b>	<b>9,754</b>	<b>9,715</b>	<b>9,774</b>	<b>10,172</b>	<b>10,062 r</b>	<b>9,847</b>
<b>Europe</b>																					
Bulgaria.....	43	36	52	52	67	83	85	96	95	93	107	103	107	105	103	104	104	122	121	116	107
Poland.....	394	363	353	366	422	415	424	466	457	481	511	501	522	554	546	585	564	548	498	473	484
Portugal.....	114	176	173	166	166	144	143	119	117	126	110	84	91	85	85	105	99	87	99	98	95
Scandinavia.....	111	117	121	123	120	106	110	98	112	92	89	99	95	95	108	108	112	110	84	78	76
Serbia.....	131	131	125	116	83	100	82	77	81	78	57	51	30	34	23	13	14	13	18	21	21
<b>Total Europe.....</b>	<b>793</b>	<b>823</b>	<b>824</b>	<b>823</b>	<b>856</b>	<b>849</b>	<b>845</b>	<b>856</b>	<b>862</b>	<b>870</b>	<b>873</b>	<b>838</b>	<b>845</b>	<b>873</b>	<b>865</b>	<b>916</b>	<b>893</b>	<b>880</b>	<b>821</b>	<b>786</b>	<b>783</b>
<b>Asia</b>																					
Russian Federation.....	1,047	992	926	770	643	632	580	577	557	584	590	584	595	730	694	694	705	744	761	777	818
China.....	466	463	435	482	507	568	623	621	687	678	737	795	802	780	816	977	998	1,126	1,043 r	1,127 r	1,060
India.....	59	57	56	54	55	51	51	53	41	44	38	37	38	34	32	33	25	32	36	34	33
Indonesia.....	164	186	242	321	341	368	507	579	604	892	866	1,107	1,155	1,282	1,106	929	1,174	900	870	718 r	1,070
Iran.....	75	73	93	116	96	130	112	114	131	141	143	146	146	146	162	161	181	238	269	273	281
Japan <sup>(2)</sup> .....	16	14	14	13	11	7	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Kazakhstan <sup>(3)</sup> .....	NA	NA	NA	276	290	237	256	276	349	373	412	474	518	522	535	509	443	479	448	463	447
Mongolia <sup>(4)</sup> .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	144 r	143 r	146
Philippines.....	213	201	164	136	150	128	119	68	54	50	41	35	26	21	22	18	18	19	24	20	54
<b>Total Asia.....</b>	<b>2,040</b>	<b>1,986</b>	<b>1,929</b>	<b>2,168</b>	<b>2,093</b>	<b>2,120</b>	<b>2,248</b>	<b>2,288</b>	<b>2,423</b>	<b>2,762</b>	<b>2,827</b>	<b>3,175</b>	<b>3,280</b>	<b>3,515</b>	<b>3,367</b>	<b>3,323</b>	<b>3,545</b>	<b>3,538</b>	<b>3,595 r</b>	<b>3,555 r</b>	<b>3,909</b>
<b>Africa</b>																					
Namibia.....	34	36	39	38	37	32	25	20	20	7	—	6	17	20	18	15	12	7	11	10	9
South Africa.....	217	217	213	218	208	203	208	208	205	207	177	179	123	100	99	96	98	99	107	120	128
Congo.....	486	392	321	159	51	33	39	55	44	39	34	36	42	42	70	82	111	141	157	236	415
Zambia.....	562	547	455	477	476	424	347	400	383	347	309	275	349	376	384	443	477	523	561	602 r	619
<b>Total Africa.....</b>	<b>1,299</b>	<b>1,191</b>	<b>1,027</b>	<b>892</b>	<b>771</b>	<b>692</b>	<b>619</b>	<b>683</b>	<b>652</b>	<b>600</b>	<b>520</b>	<b>496</b>	<b>531</b>	<b>538</b>	<b>571</b>	<b>636</b>	<b>697</b>	<b>769</b>	<b>836</b>	<b>968 r</b>	<b>1,171</b>
<b>Other<sup>(5)</sup></b>																					
<b>Other<sup>(5)</sup>.....</b>	<b>287</b>	<b>238</b>	<b>225</b>	<b>203</b>	<b>198</b>	<b>188</b>	<b>255</b>	<b>335</b>	<b>348</b>	<b>339</b>	<b>333</b>	<b>339</b>	<b>331</b>	<b>320</b>	<b>320</b>	<b>519</b>	<b>547</b>	<b>600</b>	<b>675 r</b>	<b>692 r</b>	<b>777</b>
<b>TOTAL WORLD.....</b>	<b>9,915</b>	<b>9,873</b>	<b>10,025</b>	<b>10,395</b>	<b>10,435</b>	<b>10,478</b>	<b>11,140</b>	<b>12,274</b>	<b>12,737</b>	<b>13,497</b>	<b>14,103</b>	<b>14,563</b>	<b>15,020</b>	<b>14,970</b>	<b>15,077</b>	<b>16,087</b>	<b>16,414</b>	<b>16,523</b>	<b>17,047 r</b>	<b>17,039 r</b>	<b>17,459</b>

Sources: International Copper Study Group; ABMS

p - preliminary r - revised

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

(2) Included in "Other" starting in 1995.

(3) Kazakhstan reported separately from the Russian Federation starting in 1992; included with Russian Federation for 1986-1991.

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

(5) 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 and matte in the United States

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Imports (Ore, Concentrate, Matte).....	52	160	69	107	40	89	143	82	51	242	160	2	52	80	32	27	2	2	3	2	2
Exports (Ore, Concentrate, Matte).....	(304)	(288)	(267)	(294)	(251)	(289)	(302)	(256)	(204)	(65)	(110)	(227)	(76)	(44)	(28)	(51)	(197)	(224)	(217)	(383) r	(187)
<b>Net Imports (Ore, Concentrate, Matte)<sup>(a)</sup>.....</b>	<b>(252)</b>	<b>(128)</b>	<b>(198)</b>	<b>(186)</b>	<b>(211)</b>	<b>(200)</b>	<b>(159)</b>	<b>(174)</b>	<b>(153)</b>	<b>177</b>	<b>50</b>	<b>(225)</b>	<b>(24)</b>	<b>36</b>	<b>4</b>	<b>(24)</b>	<b>(195)</b>	<b>(222)</b>	<b>(214)</b>	<b>(381) r</b>	<b>(185)</b>

Source: U.S. Department of Commerce, Bureau of the Census.

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Smelter Production - Domestic Ore																					
(Table 1, Item 6).....	1,235	1,277	1,238	1,301	1,400	1,444	1,378	1,422	1,587	1,642	1,202	945	925	753	594	597	577	552	680	630 r	655
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).....	396	336	402	434	452	441	390	374	314	256	226	157	88	—	—	—	—	—	—	—	—
<b>TOTAL SMELTER PRODUCTION.....</b>	<b>1,631</b>	<b>1,613</b>	<b>1,639</b>	<b>1,735</b>	<b>1,852</b>	<b>1,885</b>	<b>1,768</b>	<b>1,796</b>	<b>1,901</b>	<b>1,898</b>	<b>1,428</b>	<b>1,102</b>	<b>1,013</b>	<b>753</b>	<b>594</b>	<b>597</b>	<b>577</b>	<b>552</b>	<b>680</b>	<b>630 r</b>	<b>655</b>

Source: U.S. Department of the Interior, U.S. Geological Survey.

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Imports of Blister/Anode Copper.....	85	49	67	64	108	85	104	181	158	165	213	204	299	163	173	166	146	188	169	136 r	76
Exports of Blister/Anode Copper.....	(6)	(7)	(23)	(19)	(13)	(13)	(33)	(26)	(35)	(30)	(34)	(26)	(29)	(36)	(29)	(51)	(46)	(21)	(17)	(26)	(29)
<b>Net Imports of Blister/Anode Copper.....</b>	<b>79</b>	<b>42</b>	<b>43</b>	<b>46</b>	<b>95</b>	<b>72</b>	<b>72</b>	<b>155</b>	<b>123</b>	<b>135</b>	<b>179</b>	<b>178</b>	<b>270</b>	<b>127</b>	<b>144</b>	<b>115</b>	<b>100</b>	<b>167</b>	<b>152</b>	<b>110 r</b>	<b>47</b>

Source: U.S. Department of Commerce, Bureau of the Census.

p - preliminary, r - revised

Numbers may not sum due to rounding.

## Table 1, Item 10.

### Blister and anode stocks and other

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
End-of-Year Blister/Anode Copper Stocks.....	146	131	149	183	161	189	192	191	198	176	152	134	108	49	63	57	49	21	29	27	r	30
Net Change <sup>(a)</sup> .....	12	(14)	18	34	(22)	28	3	(1)	7	(22)	(24)	(18)	(26)	(59)	14	(6)	(8)	(28)	8	(2)	r	3
Apparent Change <sup>(b)</sup> .....	30	14	29	92	144	177	70	154	133	125	(5)	3	87	(48)	9	(27)	(45)	(24)	(23)	(51)	r	(22)

Source: U.S. Department of the Interior, U.S. Geological Survey; ABMS; Global Market Consultants, Inc.

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Refined Production - Primary Sources																						
(Table 1, Items 1,2,4,9 and 10).....	1,628	1,738	1,739	1,817	1,893	1,883	1,974	2,056	2,223	2,323	2,032	1,733	1,800	1,590	1,381	1,383	1,332	1,328	1,411	1,351	r	1,246
Refined Production - Scrap at Smelters																						
(Table 1, Item 7).....	396	336	402	434	452	441	390	374	314	256	226	157	88	—	—	—	—	—	—	—	—	—
Refined Production - Scrap at Refiners																						
(Table 1, Item 12).....	133	150	59	113	136	135	151	168	180	162	81	87	72	77	59	56	52	49	51	60	r	55
<b>TOTAL REFINED PRODUCTION.....</b>	<b>2,157</b>	<b>2,224</b>	<b>2,199</b>	<b>2,363</b>	<b>2,480</b>	<b>2,458</b>	<b>2,515</b>	<b>2,598</b>	<b>2,717</b>	<b>2,741</b>	<b>2,339</b>	<b>1,977</b>	<b>1,960</b>	<b>1,667</b>	<b>1,440</b>	<b>1,439</b>	<b>1,384</b>	<b>1,378</b>	<b>1,462</b>	<b>1,411</b>	r	<b>1,301</b>

Source: U.S. Department of the Interior, U.S. Geological Survey; U.S. Department of Commerce, Bureau of the Census.

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
General Imports of Refined Copper <sup>1</sup> .....	335	288	318	319	379	512	473	684	714	799	1,009	1,126	1,321	1,168	758	776	1,077	1,184	917	798	r	694
Total Exports of Refined Copper.....	(160)	(235)	(299)	(209)	(239)	(174)	(240)	(187)	(103)	(96)	(28)	(107)	(26)	(32)	(136)	(140)	(54)	(67)	(56)	(22)	r	(83)
<b>Net Imports of Refined Copper.....</b>	<b>175</b>	<b>54</b>	<b>19</b>	<b>110</b>	<b>139</b>	<b>338</b>	<b>233</b>	<b>497</b>	<b>611</b>	<b>703</b>	<b>981</b>	<b>1,019</b>	<b>1,295</b>	<b>1,136</b>	<b>622</b>	<b>636</b>	<b>1,023</b>	<b>1,117</b>	<b>861</b>	<b>776</b>	r	<b>611</b>

Source: U.S. Department of Commerce, Bureau of the Census.

p - preliminary, r - revised

<sup>1</sup> 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**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
End-of year Refined Copper Stocks at:																						
Refineries.....	56	52	42	30	29	25	42	36	66	49	11	16	32	13	13	11	9	31	24	17	r	18
Wire Rod Mills.....	35	27	33	41	38	44	27	35	27	41	37	44	41	25	33	22	22	24	23	25	r	28
Brass Mills.....	13	11	12	14	16	9	8	15	16	23	26	26	28	32	22	24	27	38	11	9	r	11
Other Processors.....	11	9	7	9	7	11	3	3	4	4	4	5	5	5	5	4	6	6	6	4	r	4
Government.....	22	22	22	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Commodity Exchange.....	16	20	34	106	74	27	24	29	92	94	92	65	269	399	281	48	7	34	15	36	r	99
London Metal Exchange <sup>1</sup> .....	—	—	—	—	—	—	75	42	142	376	454	225	680	662	369	39	1	83	67	117	—	312
<b>End-of Year Total.....</b>	<b>154</b>	<b>142</b>	<b>149</b>	<b>221</b>	<b>164</b>	<b>116</b>	<b>179</b>	<b>160</b>	<b>347</b>	<b>587</b>	<b>624</b>	<b>381</b>	<b>1,055</b>	<b>1,136</b>	<b>723</b>	<b>148</b>	<b>73</b>	<b>216</b>	<b>146</b>	<b>207</b>	<b>r</b>	<b>471</b>
Net Change <sup>(a)</sup> .....	15	(13)	8	72	(58)	(48)	64	(19)	187	240	37	(243)	674	81	(413)	(575)	(75)	144	(70)	61	r	264
Apparent Change <sup>(b)</sup> .....	(100)	(86)	(36)	76	18	(158)	(51)	210	254	263	29	(339)	368	197	(462)	(587)	(99)	168	(33)	(41)	r	114

Sources: U.S. Department of the Interior, U.S. Geological Survey; ABMS; Global Market Consultants, Inc.

p - preliminary, r - revised

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

(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.

<sup>1</sup> Prior to 1995 there were no LME warehouses in the USA.

Numbers may not sum due to rounding.

**Table 1, Item 16.****Consumption of refined copper in the United States**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Consumption of Refined Copper by:																						
Wire Rod Mills.....	1,872	1,823	1,755	1,846	2,006	2,271	2,149	2,183	2,362	2,396	2,458	2,469	2,138	1,885	1,809	1,962	1,852	1,731	1,775	1,642	r	1,269
Brass Mills.....	508	491	457	505	555	626	588	648	659	727	762	797	687	654	647	632	582	540	525	528	r	472
Ingot Makers.....	6	6	5	6	5	8	9	4	5	6	5	5	5	5	5	5	5	5	5	3	r	3
Foundries and Other Industries.....	17	17	14	15	14	19	53	50	52	57	66	64	57	62	63	63	67	51	51	55	r	55
Powder Plants.....	9	9	8	8	7	10	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Other Industries.....	19	18	16	17	15	21	0	0	(4)	(5)	—	—	—	—	—	—	—	—	—	—	—	—
<b>TOTAL REFINED CONSUMPTION.....</b>	<b>2,432</b>	<b>2,364</b>	<b>2,254</b>	<b>2,397</b>	<b>2,602</b>	<b>2,954</b>	<b>2,799</b>	<b>2,885</b>	<b>3,074</b>	<b>3,181</b>	<b>3,291</b>	<b>3,335</b>	<b>2,887</b>	<b>2,606</b>	<b>2,524</b>	<b>2,662</b>	<b>2,506</b>	<b>2,327</b>	<b>2,356</b>	<b>2,228</b>	<b>r</b>	<b>1,799</b>

Sources: U.S. Department of the Interior, U.S. Geological Survey; U.S. Department of Commerce, Bureau of the Census; ABMS; Global Market Consultants, Inc.

p - preliminary, r - revised

(a) - Starting with 1995 Powder Plants data are included with Foundries. Starting in 2008 Ingot Makers data are also included with Foundries.

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**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
(1) Receipts of Domestic Scrap.....	1,736	1,650	1,527	1,510	1,570	1,769	1,595	1,534	1,696	1,598	1,542	1,667	1,570	1,423	1,511	1,557	1,511	1,623	1,559	1,754	r	1,991
(2) Net Scrap Imports (page 12) <sup>(a)</sup> .....	(241)	(182)	(174)	(77)	(71)	(154)	(239)	(161)	(154)	(115)	(157)	(312)	(384)	(359)	(538)	(549)	(512)	(628)	(653)	(883)	r	(1,163)
(3) Scrap Stocks (page 12).....	13	11	—	—	6	(18)	24	3	(11)	1	(5)	9	11	3	3	(11)	(9)	(2)	30	—	—	2
(4) Recovery from Copper-Base Scrap (page 13)	1,509	1,479	1,353	1,434	1,504	1,597	1,380	1,375	1,531	1,484	1,380	1,364	1,198	1,067	977	996	990	992	937	872	r	830
(5) Recovery from Other Scrap (page 13).....	51	50	46	48	51	54	72	79	82	84	86	82	69	68	64	68	61	77	83	60	r	58
(6) Total Scrap Recovery (page 13).....	1,560	1,529	1,399	1,482	1,555	1,651	1,452	1,454	1,613	1,568	1,466	1,446	1,267	1,135	1,041	1,064	1,051	1,069	1,020	922	r	888
(7) Smelter Production from Scrap.....	(396)	(336)	(402)	(434)	(452)	(441)	(390)	(374)	(314)	(256)	(226)	(157)	(88)	—	—	—	—	—	—	—	—	—
(8) Refined Production from Scrap.....	(133)	(150)	(59)	(113)	(136)	(135)	(151)	(168)	(180)	(162)	(81)	(87)	(72)	(77)	(59)	(56)	(52)	(49)	(51)	(60)	r	(55)
(9) Non-Reported Scrap & Other.....	NA	NA	NA	NA	NA	NA	153	162	42	33	55	15	(31)	(2)	8	8	8	8	9	10	r	9
(10) Consumption of Scrap (page 13).....	1,031	1,043	938	936	967	1,075	1,064	1,074	1,161	1,183	1,214	1,217	1,076	1,056	990	1,016	1,006	1,027	978	872	r	842

Sources: U.S. Department of the Interior, U.S. Geological Survey; U.S. Department of Commerce, Bureau of the Census; Global Market Consultants, Inc.; ABMS

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Imports of Copper-Base Scrap.....	96	116	107	148	167	165	173	196	196	148	119	124	100	89	78	88	100	101	124	117 r	75
Exports of Copper-Base Scrap.....	(337)	(298)	(281)	(224)	(238)	(319)	(412)	(357)	(350)	(263)	(276)	(436)	(484)	(448)	(616)	(637)	(612)	(729)	(777)	(1,000) r	(1,238)
<b>Net Imports of Copper-Base Scrap<sup>(a)</sup>.....</b>	<b>(241)</b>	<b>(182)</b>	<b>(174)</b>	<b>(77)</b>	<b>(71)</b>	<b>(154)</b>	<b>(239)</b>	<b>(161)</b>	<b>(154)</b>	<b>(115)</b>	<b>(157)</b>	<b>(312)</b>	<b>(384)</b>	<b>(359)</b>	<b>(538)</b>	<b>(549)</b>	<b>(512)</b>	<b>(628)</b>	<b>(653)</b>	<b>(883) r</b>	<b>(1,163)</b>

Source: U.S. Department of Commerce, Bureau of the Census; Global Market Consultants, Inc.; ABMS

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Scrap Copper-Base Stocks at:																					
Brass Mills.....	36	33	27	39	33	41	36	35	38	46	50	50	43	42	40	51	56	58	40 r	40 r	30
Secondary Smelters & Primary Producers.....	43	36	41	30	31	40	24	23	31	23	23	14	10	8	7	7	12	12	10 r	11 r	10
Foundries.....	8	7	7	7	6	8	6	5	5	4	5	5	5	5	5	4	4	4	4 r	3	3
Other Processors.....	2	2	2	2	2	2	2														
<b>End-of Year Total.....</b>	<b>89</b>	<b>78</b>	<b>78</b>	<b>77</b>	<b>72</b>	<b>90</b>	<b>66</b>	<b>63</b>	<b>74</b>	<b>73</b>	<b>78</b>	<b>69</b>	<b>58</b>	<b>55</b>	<b>52</b>	<b>63</b>	<b>72</b>	<b>74</b>	<b>54 r</b>	<b>54 r</b>	<b>43</b>
Net Change <sup>(a)</sup> .....	(13)	(11)	—	—	(6)	18	(24)	(3)	11	(1)	5	(9)	(11)	(3)	(3)	11	9	2	(20) r	(0) r	(2)

Source: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Copper Recovered from Copper-Base Scrap.....																						
New Scrap.....	804	804	739	774	820	906	922	941	1,017	1,008	995	1,002	876	885	773	810	805	851	797	726	r	705
Old Scrap.....	705	675	614	659	684	691	458	434	514	476	385	362	322	182	204	186	185	141	140	146	r	125
<b>Total (Table 2, Item 4).....</b>	<b>1,509</b>	<b>1,479</b>	<b>1,353</b>	<b>1,434</b>	<b>1,504</b>	<b>1,597</b>	<b>1,380</b>	<b>1,375</b>	<b>1,531</b>	<b>1,484</b>	<b>1,380</b>	<b>1,364</b>	<b>1,198</b>	<b>1,067</b>	<b>977</b>	<b>996</b>	<b>990</b>	<b>992</b>	<b>937</b>	<b>872</b>	<b>r</b>	<b>830</b>
Copper Recovered from Scrap other than Copper-Base																						
New Scrap.....	26	26	24	25	26	29	41	42	48	47	51	50	42	41	40	43	44	52	50	32	r	38
Old Scrap.....	26	24	22	24	25	25	31	37	34	37	35	32	27	27	24	25	17	25	33	18	r	20
<b>Total (Table 2, Item 5).....</b>	<b>51</b>	<b>50</b>	<b>46</b>	<b>48</b>	<b>51</b>	<b>54</b>	<b>72</b>	<b>79</b>	<b>82</b>	<b>84</b>	<b>86</b>	<b>82</b>	<b>69</b>	<b>68</b>	<b>64</b>	<b>68</b>	<b>61</b>	<b>77</b>	<b>83</b>	<b>50</b>	<b>r</b>	<b>58</b>
Copper Recovered from All Scrap																						
New Scrap.....	829	829	763	799	846	935	963	983	1,065	1,055	1,046	1,052	918	926	813	853	848	902	846	758	r	743
Old Scrap.....	731	700	636	683	709	716	489	471	548	513	420	394	349	209	228	211	202	166	173	164	r	145
<b>Total Copper Recovered (Table 2, Item 6).....</b>	<b>1,560</b>	<b>1,529</b>	<b>1,399</b>	<b>1,482</b>	<b>1,555</b>	<b>1,651</b>	<b>1,452</b>	<b>1,454</b>	<b>1,613</b>	<b>1,568</b>	<b>1,466</b>	<b>1,446</b>	<b>1,267</b>	<b>1,135</b>	<b>1,041</b>	<b>1,064</b>	<b>1,051</b>	<b>1,069</b>	<b>1,020</b>	<b>922</b>	<b>r</b>	<b>888</b>

Source: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

p - preliminary, r - revised

Numbers may not sum due to rounding.

## Table 2, Item 10.

### Consumption of copper scrap in the United States

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Consumption of Copper Scrap by:																						
Wire Rod Mills.....	31	27	20	20	26	24	29	30	33	33	34	35	30	30	28	29	29	30	28	21	r	19
Brass Mills.....	613	637	598	597	624	732	757	768	853	861	880	896	771	779	717	748	739	763	710	641	r	620
Ingot Makers.....	218	214	182	181	185	183	140	137	138	149	143	130	135	109	101	99	104	91	100	87	r	87
Foundries.....	85	83	70	69	66	66	69	59	61	57	70	75	71	70	71	63	65	57	51	49	r	44
Powder Plants <sup>(a)</sup> .....	14	13	11	11	11	15	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	5	r	5
Chemical Plants <sup>(b)</sup> .....	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	13	12	9	9	9	9	9	9	6	67	r	65
Non-copper based scrap	70	69	58	57	55	56	72	79	82	84	86	82	69	68	64	68	61	77	83	2	r	2
Miscellaneous Adjustments	—	-1	—	1	—	(1)	(3)	1	(6)	(1)	(12)	(13)	(9)	(9)	—	—	—	—	1	—	r	—
<b>TOTAL COPPER CONSUMED.....</b>	<b>1,031</b>	<b>1,043</b>	<b>938</b>	<b>936</b>	<b>967</b>	<b>1,075</b>	<b>1,064</b>	<b>1,074</b>	<b>1,161</b>	<b>1,183</b>	<b>1,214</b>	<b>1,217</b>	<b>1,076</b>	<b>1,056</b>	<b>990</b>	<b>1,016</b>	<b>1,006</b>	<b>1,027</b>	<b>978</b>	<b>872</b>	<b>r</b>	<b>842</b>

Source: U.S. Department of the Interior, U.S. Geological Survey; U.S. Department of Commerce, Bureau of the Census; Global Market Consultants, Inc.; ABMS

p - preliminary, r - revised

(a) - Starting with 1995 Powder Plants data are included with Foundries. Starting in 2008 Wire Rod Mill Consumption data is included with Brass Mill.

(b) Source data expanded in 1999 to include copper chemicals.

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
(1) Consumption of Refined Copper (Table 1, Item 16).....	2,432	2,364	2,254	2,397	2,602	2,954	2,799	2,885	3,074	3,181	3,291	3,335	2,887	2,606	2,524	2,662	2,506	2,327	2,356	2,228	r	1,798
(2) Consumption of Copper in Scrap (Table 2, Item 10).....	1,031	1,043	938	936	967	1,075	1,064	1,074	1,161	1,183	1,214	1,217	1,076	1,056	990	1,016	1,006	1,027	978	872	r	842
<b>(3) Total Copper Consumed (page 15).....</b>	<b>3,462</b>	<b>3,407</b>	<b>3,192</b>	<b>3,333</b>	<b>3,569</b>	<b>4,029</b>	<b>3,863</b>	<b>3,959</b>	<b>4,235</b>	<b>4,364</b>	<b>4,505</b>	<b>4,552</b>	<b>3,963</b>	<b>3,662</b>	<b>3,514</b>	<b>3,678</b>	<b>3,512</b>	<b>3,354</b>	<b>3,334</b>	<b>3,100</b>	<b>r</b>	<b>2,640</b>
(4) Consumption of Zinc.....	321	313	305	335	346	393	283	292	300	305	312	329	283	296	266	284	273	268	253	226	r	199
(5) Consumption of Lead.....	30	29	26	27	27	28	19	19	20	20	19	19	17	15	13	14	11	11	11	13	r	14
(6) Consumption of Tin.....	15	15	13	13	13	13	9	8	9	10	9	11	11	10	8	8	9	9	9	8	r	9
(7) Consumption of Nickel.....	10	9	9	10	11	12	9	8	7	8	11	11	8	6	6	7	7	6	6	5	r	5
<b>(8) Total Alloying Metal Consumed (page 16).....</b>	<b>376</b>	<b>366</b>	<b>353</b>	<b>385</b>	<b>396</b>	<b>446</b>	<b>320</b>	<b>327</b>	<b>336</b>	<b>343</b>	<b>351</b>	<b>370</b>	<b>319</b>	<b>327</b>	<b>293</b>	<b>314</b>	<b>300</b>	<b>295</b>	<b>278</b>	<b>252</b>	<b>r</b>	<b>227</b>
<b>(9) Total Metal Consumed.....</b>	<b>3,838</b>	<b>3,773</b>	<b>3,545</b>	<b>3,718</b>	<b>3,965</b>	<b>4,475</b>	<b>4,183</b>	<b>4,286</b>	<b>4,571</b>	<b>4,707</b>	<b>4,856</b>	<b>4,922</b>	<b>4,282</b>	<b>3,989</b>	<b>3,807</b>	<b>3,992</b>	<b>3,812</b>	<b>3,649</b>	<b>3,611</b>	<b>3,352</b>	<b>r</b>	<b>2,867</b>
(10) Ingot Consumed (page 17) <sup>(a)</sup> .....	207	203	173	175	167	180	134	136	140	125	139	137	126	122	112	109	102	97	90	84	r	80
(11) Ingot Stocks & Other <sup>(a,b)</sup> .....	(95)	(93)	(79)	(77)	(89)	(83)	(13)	(38)	(39)	(66)	(40)	(32)	(45)	(16)	(14)	(17)	(27)	(20)	(38)	(30)	r	(33)
<b>(12) Net Metal Consumed (page 17).....</b>	<b>3,743</b>	<b>3,679</b>	<b>3,466</b>	<b>3,641</b>	<b>3,877</b>	<b>4,392</b>	<b>4,170</b>	<b>4,248</b>	<b>4,532</b>	<b>4,641</b>	<b>4,816</b>	<b>4,890</b>	<b>4,237</b>	<b>3,972</b>	<b>3,793</b>	<b>3,974</b>	<b>3,785</b>	<b>3,629</b>	<b>3,573</b>	<b>3,322</b>	<b>r</b>	<b>2,834</b>
(13) Wire Rod Mills - Net Metal Consumed (p 17)	1,903	1,850	1,774	1,866	2,033	2,295	2,178	2,213	2,395	2,429	2,492	2,504	2,168	1,915	1,837	1,991	1,881	1,760	1,802	1,663	r	1,288
(14) Wire Rod Mills - Metal Stocks & Other.....	(236)	(47)	(132)	(145)	(129)	(190)	(235)	8	(72)	(53)	(154)	(148)	(114)	32	(29)	(30)	(201)	(13)	(40)	12	r	(31)
(15) Wire Rod Mills - Shipments.....	1,668	1,802	1,642	1,721	1,904	2,105	1,943	2,221	2,323	2,376	2,338	2,356	2,054	1,947	1,808	1,961	1,680	1,747	1,763	1,676	r	1,257
(16) Wire Rod - Net Imports.....	(12)	(10)	(12)	(18)	(25)	(54)	(10)	(6)	18	51	197	237	351	339	241	208	486	446	159	77	r	1
(17) Wire Mills - Net Metal Consumed.....	1,656	1,792	1,631	1,703	1,878	2,051	1,933	2,215	2,341	2,427	2,535	2,593	2,405	2,286	2,049	2,169	2,166	2,193	1,922	1,753	r	1,257
(18) Wire Mills - Metal Stocks & Other.....	(16)	(118)	(43)	(73)	(158)	(143)	(136)	(370)	(327)	(320)	(351)	(422)	(439)	(540)	(197)	(151)	(109)	(304)	(181)	(207)	r	(10)
(19) Wire Mills - Metal Contained in Products Supplied (Table 4, Item 11).....	1,641	1,675	1,588	1,630	1,720	1,909	1,797	1,846	2,014	2,108	2,184	2,172	1,966	1,747	1,852	2,018	2,057	1,889	1,741	1,546	r	1,248
(20) Brass Mills - Net Metal Consumed (p 17).....	1,423	1,421	1,347	1,427	1,516	1,738	1,599	1,680	1,783	1,867	1,934	1,998	1,717	1,712	1,609	1,637	1,571	1,547	1,455	1,358	r	1,255
(21) Brass Mills - Metal Stocks & Other.....	(22)	(90)	(10)	29	(12)	(31)	81	104	69	30	52	18	(53)	(46)	(21)	82	128	74	(7)	(84)	r	(315)
(22) Brass Mills - Metal Contained in Products Supplied (Table 4, Item 17).....	1,401	1,331	1,337	1,456	1,505	1,708	1,680	1,784	1,852	1,897	1,986	2,016	1,664	1,666	1,588	1,720	1,699	1,621	1,448	1,274	r	941
(23) Foundries - Net Metal Consumed (page 17).....	261	256	216	217	205	218	287	275	282	267	303	307	283	278	274	270	264	238	223	227	r	218
(24) Foundries - Metal Stocks & Other.....	(24)	(45)	(23)	(27)	(18)	(19)	(77)	(64)	(70)	(54)	(86)	(90)	(113)	(121)	(127)	(130)	(127)	(108)	(103)	(120)	r	(123)
(25) Foundries - Metal Contained in Products Supplied.....	237	211	193	190	188	199	211	212	213	214	217	218	171	158	148	140	138	130	120	108	r	95
(26) Powder Plants - Net Metal Consumed <sup>(c)</sup> .....	28	27	23	24	22	31	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
(27) Powder Plants - Metal Stocks & Other <sup>(c)</sup> .....	(7)	(9)	(7)	(6)	(3)	(8)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
(28) Powder Plants - Metal Contained in Products Supplied <sup>(c)</sup> .....	21	18	16	18	19	23	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
(29) Other Industries - Net Metal Consumed.....	128	126	106	107	101	110		106	80	72	78	87	81	69	67	73	77	70	86	90	r	72
Miscellaneous and Discrepancies.....																						

Sources: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

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 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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Consumption of Copper by:																					
Wire Rod Mills																					
Refined.....	1,872	1,823	1,755	1,846	2,006	2,271	2,149	2,183	2,362	2,396	2,458	2,469	2,138	1,885	1,809	1,962	1,852	1,731	1,775	1,642	r 1,269
Scrap.....	31	27	20	20	26	24	29	30	33	33	34	35	30	30	28	29	29	30	28	21	r 19
Total.....	1,903	1,850	1,774	1,866	2,033	2,295	2,178	2,213	2,395	2,429	2,492	2,504	2,168	1,915	1,837	1,991	1,881	1,760	1,802	1,663	r 1,288
Brass Mills <sup>(a)</sup>																					
Refined.....	508	491	457	505	555	626	588	648	659	727	762	797	687	654	647	632	582	540	525	528	r 472
Scrap.....	613	637	598	597	624	732	757	768	853	861	880	896	771	779	717	748	739	763	710	641	r 620
Total.....	1,121	1,128	1,054	1,102	1,179	1,358	1,345	1,416	1,512	1,588	1,642	1,693	1,458	1,433	1,364	1,380	1,321	1,303	1,235	1,169	r 1,092
Ingot Makers <sup>(b)</sup>																					
Refined.....	6	6	5	6	5	8	9	4	5	6	5	5	5	5	5	5	5	5	5	3	r 3
Scrap.....	218	214	182	181	185	183	140	137	138	149	143	130	135	109	101	99	104	91	100	87	r 87
Total.....	225	220	187	187	190	191	149	141	143	155	148	135	140	114	106	104	109	96	105	90	r 90
Foundries and Other Industries <sup>(a,c)</sup>																					
Refined.....	17	17	14	15	14	19	53	50	52	57	66	64	57	62	63	63	67	51	51	55	r 55
Scrap.....	85	83	70	69	66	66	69	59	61	57	70	75	71	70	71	63	65	57	51	49	r 44
Total.....	102	100	84	85	80	85	122	109	113	114	136	139	128	132	134	127	132	109	103	104	99
Powder Plants <sup>(c)</sup>																					
Refined.....	9	9	8	8	7	10	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Scrap.....	14	13	11	11	11	15	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Total.....	23	22	19	19	18	25	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Miscellaneous <sup>(d)</sup>																					
Refined.....	19	18	16	17	15	21	—	—	(4)	(5)	—	—	—	—	—	—	—	—	—	—	—
Scrap.....	70	69	58	57	55	56	69	80	76	83	87	81	69	68	73	77	70	86	89	74	r 72
Total.....	89	87	74	74	70	76	69	80	72	78	87	81	69	68	73	77	70	86	89	74	r 72
<b>All Industries</b>																					
Refined (Table 1, Item 16).....	2,432	2,364	2,254	2,397	2,602	2,954	2,799	2,885	3,074	3,181	3,291	3,335	2,887	2,606	2,524	2,662	2,506	2,327	2,356	2,228	r 1,799
Scrap (Table 2, Item 10).....	1,031	1,043	938	936	967	1,075	1,064	1,074	1,161	1,183	1,214	1,217	1,076	1,056	990	1,016	1,006	1,027	978	872	r 842
<b>TOTAL COPPER CONSUMED</b>																					
(Table 3, Item 3).....	3,462	3,407	3,192	3,333	3,569	4,029	3,863	3,959	4,235	4,364	4,505	4,552	3,963	3,662	3,514	3,678	3,512	3,354	3,334	3,100	r 2,641

Sources: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

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 and Other Industries 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**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Consumption of Alloying Metal by:																						
Brass Mills <sup>(a)</sup>																						
Zinc:Unalloyed & in Secondary Copper Alloys.....	269	260	261	290	302	340	236	246	253	259	269	501	241	263	231	241	236	230	209	179	r	154
Lead:Unalloyed & in Secondary Copper Alloys.....	7	7	7	8	8	9	7	8	9	9	9	8	7	7	6	7	4	4	3	3		3
Tin:Unalloyed & in Secondary Copper Alloys.....	2	2	2	2	2	2	2	2	2	3	3	4	3	3	2	2	3	4	3	2		2
Nickel:Unalloyed & in Secondary Copper Alloys.....	9	9	9	10	10	11	9	8	7	8	11	11	8	6	6	7	7	6	5	5		4
Total.....	286	278	278	309	321	361	254	264	271	279	292	305	259	279	245	256	250	243	221	189	r	163
Ingot Makers																						
Zinc:Unalloyed & in Secondary Copper Alloys.....	44	44	37	38	38	44	19	19	20	20	17	18	16	12	10	12	10	10	12	10	r	10
Lead:Unalloyed & in Secondary Copper Alloys.....	21	20	17	17	18	18	10	9	10	10	9	10	9	7	6	6	6	6	7	9	r	10
Tin:Unalloyed & in Secondary Copper Alloys.....	12	11	10	10	10	10	6	5	6	6	5	6	6	5	4	4	4	4	5	5		4
Nickel:Unalloyed.....	1	1	0	0	1	1	—	—	—	—	—	—	—	—	—	0	0	0	—	—		—
Total.....	77	76	64	65	65	73	35	33	36	36	31	34	31	24	20	22	20	20	24	24		23
Foundries and Other Industries <sup>(a)</sup>																						
Zinc:Unalloyed & in Secondary Copper Alloys.....	3	3	2	3	2	3	28	27	27	26	26	29	26	21	25	32	27	28	32	37	r	35
Lead:Unalloyed & in Secondary Copper Alloys.....	4	4	3	3	3	3	2	2	1	1	1	1	1	1	2	1	1	1	0	1	r	1
Tin:Unalloyed & in Secondary Copper Alloys.....	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	1	1		3
Nickel:Unalloyed.....	2	2	1	1	1	1	—	—	—	—	—	—	—	—	—	0	0	0	—	—		—
Total.....	10	10	8	9	8	9	31	30	29	28	28	31	29	24	29	35	30	31	33	39	r	40
Powder Plants <sup>(a)</sup>																						
Zinc-Slab.....	1	1	1	1	1	1	}	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Zinc in Scrap.....	1	1	1	1	1	1																
Tin-Refined.....	1	1	1	1	1	1																
Total.....	3	3	2	2	2	3																
All Industries																						
Zinc:Unalloyed & in Secondary Copper Alloys.....	322	313	305	335	346	392	283	292	300	305	312	329	283	296	266	284	273	268	253	226	r	199
Lead:Unalloyed & in Secondary Copper Alloys.....	30	29	26	27	27	28	19	19	20	20	19	19	17	15	13	14	11	11	11	13	r	14
Tin:Unalloyed & in Secondary Copper Alloys.....	15	15	13	13	13	13	9	8	9	10	9	11	11	10	8	8	9	9	9	8		9
Nickel:Unalloyed & in Secondary Copper Alloys.....	9	9	9	10	10	11	9	8	7	8	11	11	8	6	6	7	7	6	5	5		4
<b>TOTAL ALLOYING METAL CONSUMED</b>																						
<b>(Table 3, Item 8).....</b>	<b>376</b>	<b>366</b>	<b>353</b>	<b>385</b>	<b>396</b>	<b>446</b>	<b>320</b>	<b>327</b>	<b>336</b>	<b>343</b>	<b>351</b>	<b>370</b>	<b>319</b>	<b>327</b>	<b>293</b>	<b>314</b>	<b>300</b>	<b>295</b>	<b>278</b>	<b>252</b>	<b>r</b>	<b>226</b>

Sources: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

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**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Net Metal Consumed by:																							
Wire Rod Mills - Copper (Table 3, Item 13).....	1,862	1,903	1,850	1,774	1,866	2,033	2,295	2,178	2,213	2,395	2,429	2,492	2,504	2,168	1,915	1,837	1,991	1,881	1,760	1,802	1,663	r	1,288
Brass Mills																							
Copper.....	1,190	1,121	1,128	1,054	1,102	1,179	1,358	1,345	1,416	1,512	1,588	1,642	1,693	1,458	1,433	1,364	1,380	1,321	1,303	1,235	1,169	r	1,092
Alloy.....	308	286	278	278	309	321	361	254	264	271	279	292	305	259	279	245	256	250	243	221	189	r	164
Ingot.....	17	16	16	15	16	17	19									2							
Total (Table 3, Item 20).....	1,515	1,423	1,421	1,347	1,427	1,516	1,738	1,599	1,680	1,783	1,867	1,934	1,998	1,717	1,712	1,609	1,637	1,571	1,547	1,456	1,358	r	1,256
Foundries <sup>(a)</sup>																							
Copper.....	99	102	100	84	85	80	85	122	109	113	114	136	139	128	132	134	128	132	110	100	104	r	99
Alloy.....	10	10	10	8	9	8	9	31	30	29	28	28	31	29	24	28	35	30	31	33	39	r	39
Ingot.....	146	149	146	123	124	117	124	134	136	140	125	139	137	126	122	112	109	102	97	90	84	r	80
Total (Table 3, Item 23).....	255	261	256	216	217	205	218	287	275	282	267	303	307	283	278	274	272	264	238	223	227	r	218
Powder Plants <sup>(a)</sup>																							
Copper.....	22	23	22	19	19	18	25	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Alloy.....	3	3	3	2	2	2	3	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ingot.....	2	3	2	2	2	2	3	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Total .....	27	28	27	23	24	22	31	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Other Industries <sup>(a)</sup>																							
Copper.....	87	89	87	74	74	70	76	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ingot.....	39	39	39	33	33	31	34	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Total (Table 3, Item 29).....	125	128	126	106	107	101	110	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Miscellaneous and Discrepancies																							
Copper (Table 3, Item 29).....								106	80	72	78	87	81	69	67	73	77	70	86	89	74	r	72
Ingot.....																							
<b>All Industries</b>																							
<b>Copper.....</b>	<b>3,260</b>	<b>3,238</b>	<b>3,186</b>	<b>3,005</b>	<b>3,146</b>	<b>3,379</b>	<b>3,839</b>	<b>3,751</b>	<b>3,818</b>	<b>4,092</b>	<b>4,209</b>	<b>4,357</b>	<b>4,417</b>	<b>3,823</b>	<b>3,547</b>	<b>3,408</b>	<b>3,575</b>	<b>3,403</b>	<b>3,258</b>	<b>3,229</b>	<b>3,100</b>	<b>r</b>	<b>2,640</b>
<b>Alloy.....</b>	<b>321</b>	<b>299</b>	<b>290</b>	<b>288</b>	<b>320</b>	<b>331</b>	<b>373</b>	<b>285</b>	<b>294</b>	<b>300</b>	<b>307</b>	<b>320</b>	<b>336</b>	<b>288</b>	<b>303</b>	<b>273</b>	<b>291</b>	<b>280</b>	<b>274</b>	<b>254</b>	<b>228</b>	<b>r</b>	<b>203</b>
<b>Ingot (Table 3, Item 10)<sup>(b)</sup>.....</b>	<b>203</b>	<b>207</b>	<b>203</b>	<b>173</b>	<b>175</b>	<b>167</b>	<b>180</b>	<b>134</b>	<b>136</b>	<b>140</b>	<b>125</b>	<b>139</b>	<b>137</b>	<b>126</b>	<b>122</b>	<b>112</b>	<b>109</b>	<b>102</b>	<b>97</b>	<b>90</b>	<b>84</b>	<b>r</b>	<b>80</b>
<b>NET METAL CONSUMED</b>																							
<b>(Table 3, Item 12).....</b>	<b>3,784</b>	<b>3,743</b>	<b>3,679</b>	<b>3,466</b>	<b>3,641</b>	<b>3,877</b>	<b>4,392</b>	<b>4,170</b>	<b>4,248</b>	<b>4,532</b>	<b>4,641</b>	<b>4,816</b>	<b>4,890</b>	<b>4,237</b>	<b>3,972</b>	<b>3,793</b>	<b>3,974</b>	<b>3,785</b>	<b>3,629</b>	<b>3,573</b>	<b>3,412</b>	<b>r</b>	<b>2,923</b>

Sources: U.S. Department of the Interior, U.S. Geological Survey; Global Market Consultants, Inc.; ABMS

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.****Supply of wire mill, brass mill, foundry and powder products  
and their consumption in the end-use markets**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
(1) Bare Wire.....	182	205	192	188	213	290	310	290	300	320	330	340	310	290	270	260	255	225	200	175	r	150
(2) Telecommunications Cable.....	450	502	429	487	491	497	502	563	609	697	628	749	599	384	395	366	375	359	292	225	r	175
(3) Electronic Wire and Cable.....	168	175	170	176	192	228	207	202	241	241	246	290	232	178	238	255	256	265	290	210	r	160
(4) Building Wire.....	1,092	1,146	1,114	1,079	1,114	1,256	1,223	1,172	1,393	1,447	1,562	1,358	1,329	1,270	1,425	1,664	1,700	1,533	1,426	1,259	r	1,000
(5) Magnet Wire.....	519	503	500	540	568	659	672	714	719	700	778	714	615	573	561	570	532	536	493	443	r	350
(6) Power Cable.....	339	299	275	287	302	281	246	266	267	286	303	333	319	288	294	300	372	315	249	326	r	275
(7) Apparatus Wire and Cordage.....	197	180	175	175	212	237	184	210	211	229	235	250	216	185	193	140	140	89	86	124	r	100
(8) Automotive Wire and Cable (except Magnet)	243	228	298	329	368	415	407	401	411	407	442	433	387	407	398	397	391	336	355	275	r	240
(9) Other Insulated Wire and Cable.....	72	88	82	80	80	85	70	85	89	85	56	69	80	80	82	85	93	119	90	54	r	45
(10) Total Insulated Wire and Cable.....	3,080	3,121	3,043	3,153	3,327	3,658	3,511	3,612	3,940	4,092	4,250	4,196	3,776	3,365	3,586	3,777	3,859	3,552	3,281	2,917	r	2,345
<b>(11) Total Wire Mill Products<sup>(a)</sup>.....</b>	<b>3,262</b>	<b>3,326</b>	<b>3,235</b>	<b>3,341</b>	<b>3,540</b>	<b>3,948</b>	<b>3,821</b>	<b>3,902</b>	<b>4,240</b>	<b>4,412</b>	<b>4,580</b>	<b>4,536</b>	<b>4,086</b>	<b>3,655</b>	<b>3,856</b>	<b>4,037</b>	<b>4,114</b>	<b>3,777</b>	<b>3,481</b>	<b>3,092</b>	<b>r</b>	<b>2,495</b>
(12) Strip, Sheet, Plate and Foil.....	920	896	860	928	995	1,154	1,122	1,178	1,230	1,262	1,356	1,421	1,018	1,019	957	1,068	1,035	1,067	999	928	r	692
(13) Mechanical Wire <sup>(b)</sup> .....	72	74	73	79	80	85	88	93	96	98	94	99	85	78	72	80	75	72	62		(b)	
(14) Rod and Bar.....	904	881	881	985	970	1,085	1,053	1,096	1,193	1,190	1,238	1,247	1,025	1,038	965	1,059	1,032	1,022	882	808	r	571
(15) Tube and Pipe <sup>(c)</sup> .....	906	811	859	919	964	1,091	1,097	1,200	1,184	1,244	1,285	1,266	1,202	1,197	1,182	1,233	1,256	1,080	953	812	r	617
<b>(16) Total Brass Mill Products (page 19).....</b>	<b>2,802</b>	<b>2,662</b>	<b>2,673</b>	<b>2,911</b>	<b>3,009</b>	<b>3,415</b>	<b>3,360</b>	<b>3,567</b>	<b>3,703</b>	<b>3,794</b>	<b>3,973</b>	<b>4,033</b>	<b>3,329</b>	<b>3,332</b>	<b>3,177</b>	<b>3,439</b>	<b>3,397</b>	<b>3,241</b>	<b>2,896</b>	<b>2,548</b>	<b>r</b>	<b>1,880</b>
<b>(17) Total Foundry Products.....</b>	<b>474</b>	<b>421</b>	<b>385</b>	<b>380</b>	<b>375</b>	<b>397</b>	<b>380</b>	<b>381</b>	<b>382</b>	<b>383</b>	<b>384</b>	<b>385</b>	<b>300</b>	<b>270</b>	<b>250</b>	<b>230</b>	<b>225</b>	<b>215</b>	<b>200</b>	<b>180</b>	<b>r</b>	<b>160</b>
<b>(18) Total Powder Products.....</b>	<b>41</b>	<b>36</b>	<b>32</b>	<b>35</b>	<b>38</b>	<b>46</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>50</b>	<b>50</b>	<b>41</b>	<b>45</b>	<b>45</b>	<b>50</b>	<b>50</b>	<b>45</b>	<b>40</b>	<b>35</b>	<b>r</b>	<b>30</b>
<b>(19) Domestic Products - Total.....</b>	<b>6,579</b>	<b>6,445</b>	<b>6,325</b>	<b>6,667</b>	<b>6,962</b>	<b>7,806</b>	<b>7,602</b>	<b>7,892</b>	<b>8,368</b>	<b>8,633</b>	<b>8,986</b>	<b>9,004</b>	<b>7,756</b>	<b>7,302</b>	<b>7,328</b>	<b>7,756</b>	<b>7,786</b>	<b>7,279</b>	<b>6,617</b>	<b>5,855</b>	<b>r</b>	<b>4,565</b>
<b>(20) Net Imports of Mill Products (page 20).....</b>	<b>284</b>	<b>197</b>	<b>61</b>	<b>41</b>	<b>38</b>	<b>135</b>	<b>130</b>	<b>108</b>	<b>126</b>	<b>223</b>	<b>376</b>	<b>568</b>	<b>276</b>	<b>249</b>	<b>265</b>	<b>343</b>	<b>266</b>	<b>319</b>	<b>311</b>	<b>224</b>	<b>r</b>	<b>111</b>
<b>(21) Mill Products to Domestic Market*.....</b>	<b>6,863</b>	<b>6,642</b>	<b>6,386</b>	<b>6,708</b>	<b>7,000</b>	<b>7,941</b>	<b>7,732</b>	<b>8,000</b>	<b>8,494</b>	<b>8,856</b>	<b>9,362</b>	<b>9,572</b>	<b>8,033</b>	<b>7,551</b>	<b>7,593</b>	<b>8,099</b>	<b>8,052</b>	<b>7,597</b>	<b>6,928</b>	<b>6,079</b>	<b>r</b>	<b>4,676</b>
(22) Building Construction.....	2,799	2,696	2,635	2,702	2,825	3,179	3,111	3,221	3,455	3,635	3,900	3,918	3,584	3,532	3,640	4,035	4,071	3,721	3,405	3,025	r	2,266
(23) Electrical and Electronic Products.....	1,612	1,655	1,537	1,655	1,761	1,934	1,915	2,020	2,170	2,329	2,400	2,517	2,016	1,598	1,582	1,569	1,525	1,533	1,400	1,274	r	957
(24) Industrial Machinery and Equipment.....	981	902	820	858	825	962	919	946	972	965	1,005	965	749	729	697	682	701	682	575	494	r	419
(25) Transportation Equipment.....	806	770	715	774	878	959	819	841	875	855	915	894	718	754	749	978	961	883	811	647	r	564
(26) Consumer and General Products.....	685	642	620	638	611	776	741	761	811	875	930	1,085	810	776	773	836	794	778	737	639	r	472

Sources: U.S. Department of Commerce, Bureau of the Census; National Electrical Manufacturers Association; IPC Technology/Marketing Research Council; Metal Powder Producers Association; CDA.

Note: Totals 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) - Commercial tube and plumbing tube data combined.

\* Markets include:

**Building Construction** - Building Wire; Plumbing & Heating; Air Conditioning & Commercial Refrigeration; Builders Hardware; Architectural**Electrical & Electronic Products** - Power Utilities; Telecommunications; Business Electronics; Lighting & Wiring Devices**Industrial Machinery & 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 & General Products** - Appliances; Cord Sets; Military & Commercial Ordnance; Consumer Electronics; Fasteners & Closures; Coinage; Utensils & Cutlery; Miscellaneous

Numbers may not sum due to rounding.

**Table 4, Item 17.**

**Supply of brass mill products in the United States**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
<b>Strip, Sheet, Plate and Foil</b>																						
Copper.....	288	287	256	274	291	343	364	383	405	435	477	531	390	363	341	390	391	394	378	343	r	224
Alloy.....	632	609	604	654	704	811	758	795	825	827	879	890	628	655	616	677	644	673	621	586		468
Total.....	920	896	860	928	995	1,154	1,122	1,178	1,230	1,262	1,356	1,421	1,018	1,019	957	1,068	1,035	1,067	999	929	r	692
<b>Mechanical Wire</b>																						
Copper.....	11	13	15	18	18	21	19	21	22	22	22	22	18	16	16	19	18	14	11	(a)	r	(a)
Alloy.....	61	61	58	61	62	64	69	72	74	76	72	77	67	62	56	61	57	58	51	(a)		(a)
Total.....	72	74	73	79	80	85	88	93	96	98	94	99	85	78	72	80	75	72	62	(a)	r	(a)
<b>Rod and Bar<sup>(a)</sup></b>																						
Copper.....	134	141	133	137	145	168	175	183	206	206	217	245	207	177	170	205	212	211	201	188	r	143
Alloy.....	770	740	748	848	825	917	878	913	987	984	1,021	1,003	818	861	795	854	820	812	681	620	r	428
Total.....	904	881	881	985	970	1,085	1,053	1,096	1,193	1,190	1,238	1,247	1,025	1,038	965	1,059	1,032	1,022	882	808	r	571
<b>Tube and Pipe<sup>(b)</sup></b>																						
Copper.....	848	753	798	853	905	1,028	1,037	1,143	1,129	1,188	1,247	1,234	1,180	1,178	1,168	1,218	1,243	1,066	940	800	r	608
Alloy.....	58	58	61	66	59	63	60	57	55	56	38	32	22	19	14	15	13	14	13	12		9
Total.....	906	811	859	919	964	1,091	1,097	1,200	1,184	1,244	1,285	1,266	1,202	1,197	1,182	1,233	1,256	1,080	953	812	r	617
<b>All Mill Products</b>																						
Copper.....	1,281	1,194	1,202	1,282	1,359	1,560	1,595	1,730	1,762	1,851	1,963	2,032	1,794	1,735	1,695	1,832	1,863	1,685	1,529	1,331	r	975
Alloy.....	1,521	1,468	1,471	1,629	1,650	1,855	1,765	1,837	1,941	1,943	2,010	2,001	1,535	1,597	1,482	1,607	1,534	1,556	1,367	1,218	r	905
<b>TOTAL BRASS MILL PRODUCTS.....</b>	<b>2,802</b>	<b>2,662</b>	<b>2,673</b>	<b>2,911</b>	<b>3,009</b>	<b>3,415</b>	<b>3,360</b>	<b>3,567</b>	<b>3,703</b>	<b>3,794</b>	<b>3,973</b>	<b>4,033</b>	<b>3,329</b>	<b>3,332</b>	<b>3,177</b>	<b>3,439</b>	<b>3,397</b>	<b>3,241</b>	<b>2,896</b>	<b>2,549</b>	<b>r</b>	<b>1,880</b>

Sources: CDA; IPC Technology/Marketing Research Council (Copper Foil - 1986-1996).

(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 17a.**

**Supply of brass mill products in selected countries**

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p	
Benelux.....	220	247	243	246	251	269	288	285	305	289	327	365	332	292	277	266	266	266	277	278		256
France.....	619	615	610	601	538	1,090	668	584	747	769	742	461	393	369	263	213	201	201	421	382	r	218
Germany.....	1,798	1,805	1,915	1,961	1,852	2,115	2,152	1,951	2,196	2,296	2,324	2,620	2,464	2,412	2,328	2,561	2,510	2,585	4,096	3,909	r	4,065
Italy.....	1,186	1,211	1,337	1,417	1,352	1,556	1,746	1,672	1,337	1,988	1,938	2,186	2,051	1,980	1,957	1,682	1,369	2,020	1,836	1,584	r	1,235
Japan.....	2,495	2,574	2,717	2,406	2,387	2,532	2,653	2,607	2,611	2,239	2,324	2,559	2,162	2,114	2,175	2,290	2,075	2,195	2,200	1,428	r	1,369
Mexico <sup>1</sup> .....	NA	NA	NA	NA	NA	309	208	163	179	329	346	340	311	307	311	319	276	229	258	232	r	235
Scandinavia.....	411	433	390	367	395	401	438	425	438	453	420	444	429	445	442	469	464	478	381	437		367
South Korea.....	297	333	365	354	569	241	291	307	373	524	640	669	675	708	723	701	720	720	823	757	r	755
Spain.....	196	188	189	199	178	212	228	211	233	262	285	291	218	250	213	166	194	185	194	198		210
Turkey.....	38	147	164	248	262	214	293	314	134	148	143	176	139	97	88	88	144	160	141	121	r	39
United Kingdom.....	544	521	454	421	432	463	492	452	440	409	385	403	178	162	NA	NA	NA	NA	NA	NA		NA
United States.....	2,802	2,662	2,673	2,911	3,009	3,415	3,360	3,567	3,703	3,794	3,973	4,033	3,329	3,332	3,177	3,439	3,397	3,241	2,896	2,549	r	1,880

Sources: World Bureau of Metal Statistics; CDA.

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

<sup>1</sup> Mexico brass mill supply reported starting in 1994.

**Table 4, Item 21.**

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009p
Imports of:																					
Bare Wire (including Stranded).....	21	20	8	19	44	12	12	15	24	118	162	200	40	47	50	42	56	39	38	43	29
Insulated Wire and Cable.....	115	107	90	95	104	127	165	176	213	273	305	356	324	297	314	334	405	418	417	362 r	282
<b>Total Wire Mill Products<sup>(1)</sup>.....</b>	<b>136</b>	<b>127</b>	<b>98</b>	<b>114</b>	<b>148</b>	<b>139</b>	<b>177</b>	<b>191</b>	<b>237</b>	<b>391</b>	<b>468</b>	<b>555</b>	<b>364</b>	<b>344</b>	<b>364</b>	<b>376</b>	<b>461</b>	<b>457</b>	<b>455</b>	<b>405 r</b>	<b>311</b>
Copper-Strip, Sheet, Plate and Foil.....	76	86	79	73	76	83	85	94	113	113	132	174	168	120	111	135	111	120	84	87	64
Rod and Bar.....	12	8	8	11	10	14	30	31	33	32	46	58	59	40	36	51	49	48	63	48	30
Tube and Pipe.....	73	55	36	39	43	66	76	121	122	123	149	180	166	170	188	227	225	285	259	262	192
Alloy-Strip, Sheet, Plate and Foil.....	109	98	84	76	73	85	81	83	84	99	104	155	120	115	93	118	95	92	74	61	43
Mechanical Wire.....	27	25	22	29	28	31	32	34	37	41	37	48	37	35	37	41	35	36	33	36	22
Rod and Bar.....	76	61	44	45	66	126	147	102	152	128	127	183	107	109	114	139	120	132	115	70 r	43
Tube and Pipe.....	67	57	51	55	61	71	70	55	60	56	69	75	71	71	68	77	66	59	51	52	32
<b>Total Brass Mill Products.....</b>	<b>439</b>	<b>391</b>	<b>324</b>	<b>326</b>	<b>358</b>	<b>477</b>	<b>520</b>	<b>520</b>	<b>600</b>	<b>591</b>	<b>664</b>	<b>872</b>	<b>729</b>	<b>660</b>	<b>648</b>	<b>790</b>	<b>700</b>	<b>771</b>	<b>679</b>	<b>616 r</b>	<b>426</b>
<b>Total Powder Products.....</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>8 r</b>	<b>7</b>
<b>TOTAL IMPORTS.....</b>	<b>578</b>	<b>521</b>	<b>425</b>	<b>444</b>	<b>509</b>	<b>620</b>	<b>702</b>	<b>715</b>	<b>842</b>	<b>988</b>	<b>1,137</b>	<b>1,433</b>	<b>1,097</b>	<b>1,010</b>	<b>1,019</b>	<b>1,172</b>	<b>1,169</b>	<b>1,238</b>	<b>1,144</b>	<b>1,028 r</b>	<b>744</b>
Exports of:																					
Bare Wire (including Stranded).....	39	40	46	64	74	48	32	37	65	71	80	113	93	104	82	99	107	102	103	88	66
Insulated Wire and Cable.....	95	108	138	151	201	198	253	278	316	333	355	398	412	370	362	379	392	423	367	400	336
<b>Total Wire Mill Products<sup>(1)</sup>.....</b>	<b>134</b>	<b>148</b>	<b>184</b>	<b>215</b>	<b>275</b>	<b>247</b>	<b>284</b>	<b>315</b>	<b>381</b>	<b>403</b>	<b>435</b>	<b>511</b>	<b>504</b>	<b>475</b>	<b>444</b>	<b>478</b>	<b>498</b>	<b>525</b>	<b>470</b>	<b>488</b>	<b>402</b>
Copper-Strip, Sheet, Plate and Foil.....	9	17	19	23	25	29	33	33	50	47	65	65	43	32	33	38	34	36	32	30	23
Rod and Bar.....	4	6	4	4	3	4	4	5	11	7	5	5	16	16	9	21	33	37	40	44	26
Tube and Pipe.....	45	35	45	44	42	43	48	55	55	61	58	76	68	71	81	70	80	76	77	48	51
Alloy-Strip, Sheet, Plate and Foil.....	21	37	34	33	39	59	69	79	81	121	73	77	67	52	63	72	96	81	72	71	57
Mechanical Wire.....	8	10	13	12	12	18	18	10	20	18	16	24	19	17	16	20	21	29	34	33	23
Rod and Bar.....	58	54	45	53	55	57	66	61	77	71	70	71	70	71	77	88	95	95	64	50	22
Tube and Pipe.....	9	11	13	13	13	21	39	39	31	23	24	22	20	14	17	21	18	16	18	21	15
<b>Total Brass Mill Products.....</b>	<b>154</b>	<b>171</b>	<b>173</b>	<b>181</b>	<b>189</b>	<b>230</b>	<b>277</b>	<b>281</b>	<b>324</b>	<b>348</b>	<b>311</b>	<b>339</b>	<b>304</b>	<b>273</b>	<b>297</b>	<b>331</b>	<b>377</b>	<b>369</b>	<b>337</b>	<b>297</b>	<b>217</b>
<b>Total Powder Products.....</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>15</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>21</b>	<b>27</b>	<b>26</b>	<b>25</b>	<b>19</b>	<b>15</b>
<b>TOTAL EXPORTS.....</b>	<b>294</b>	<b>325</b>	<b>364</b>	<b>402</b>	<b>471</b>	<b>485</b>	<b>571</b>	<b>607</b>	<b>717</b>	<b>764</b>	<b>761</b>	<b>864</b>	<b>821</b>	<b>761</b>	<b>754</b>	<b>829</b>	<b>902</b>	<b>920</b>	<b>833</b>	<b>804</b>	<b>634</b>
<b>NET IMPORTS (Table 4, Item 21).....</b>	<b>284</b>	<b>197</b>	<b>61</b>	<b>41</b>	<b>38</b>	<b>135</b>	<b>130</b>	<b>108</b>	<b>126</b>	<b>223</b>	<b>376</b>	<b>568</b>	<b>276</b>	<b>249</b>	<b>265</b>	<b>343</b>	<b>266</b>	<b>319</b>	<b>311</b>	<b>224 r</b>	<b>110</b>

Sources: U.S. Department of Commerce, Bureau of the Census; Copper & Brass Fabricators Council, Inc; CDA.

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.



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