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Canadian Minerals Yearbook (CMY) - 2009

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HIGHLIGHTS

- Prolonged strikes at Vale's Canadian nickel-copper mines contributed to an 18% decline in mined copper output in 2009.
- The permanent closure of two Canadian copper smelters and one Canadian copper refinery was announced.
- Strong Chinese demand and sluggish supply supported a steady upward price trend throughout 2009.

RECENT WORLD COPPER DATA

	2007	2008	2009	2008/07	2009/08
	(000 tonnes)			(% change)	
Mine production	15 474	15 528	15 754	0.3	1.5
Primary refined production	15 191	15 399	15 466	1.4	0.4
Secondary refined production	2 743	2 823	2 911	2.9	3.1
Total refined production	17 934	18 222	18 377	1.6	0.9
Usage (consumption)	18 239	18 062	18 206	-1.0	0.8
Refined balance (1)	-305	160	171	n.a.	n.a.
Refined stocks at year-end (2)	1 027	1 156	1 406	..	..

Source: International Copper Study Group, June 2010 bulletin.

.. Not available; n.a. Not applicable.

(1) Surplus or deficit is calculated using total refined production minus refined usage.

(2) includes producer, consumer, government, exchange, and merchant stocks.

LME COPPER PRICES

	2006	2007	2008	2009

Cash US\$/lb	305	323	315	234
Cash US\$/t	6 721	7 117	6 955	5 149
3 months US\$/t	6 665	7 088	6 887	5 171
15 months US\$/t	6 038	6 650	6 685	5 192
27 months US\$/t	5 383	6 083	6 472	5 183

Source: Bloomsbury Minerals Economics Ltd.

RECENT CANADIAN COPPER DATA

	2007	2008	2009 (p)
	(tonnes)		
Mine output (1)	596 249	606 999	494 524
Primary mine production (2)	577 545	583 376	481 374
Reported mine production (3)	593 113	598 056	480 640
Refined production	453 453	443 650	335 896
Domestic shipments	194 332	185 240	131 554
Refined imports	11 715	11 654	10 566
Apparent copper usage (4)	206 047	196 894	142 120
Refined copper exports	297 713	289 991	221 639

Source: Natural Resources Canada (NRCAN).

(p) Preliminary.

(1) Metal content in concentrates produced based on NRCAN surveys. (2) Recoverable metal in concentrates shipped based on NRCAN surveys.

(3) Reported copper mine production is taken from company reports and is a mixture of copper in concentrates produced and payable copper in concentrates, depending upon the company. (4) Usage = domestic shipments + refined imports.

Note: NRCAN data are rounded to the nearest 100 t, except for reported copper mine production, which is rounded to the nearest 1000 t.

Copper is the third-ranking metal produced and used in the world, behind aluminum and steel. Global refined copper production in 2009 was reported at 18.4 Mt. Of this amount, 16%, or 2.9 Mt, was produced from recycled sources (refer also to the Recent World Copper Data table above).

After beginning the year at US\$1.39/lb, copper prices rose steadily, reaching a high on December 31 of US\$3.33/lb. The copper price averaged US\$2.34/lb in 2009, down US\$0.83 from the 2008 average of US\$3.17/lb.¹

CANADIAN PRODUCTION SUMMARY

The locations of Canadian mines and metallurgical operations that produced copper in 2009 can be viewed by using Natural Resources Canada's Interactive Maps tool at <http://mmsd.mms.nrcan.gc.ca/stat-stat/map-car/index-eng.aspx>.

Mined copper production data for each mine in Canada that produced copper for 2007, 2008, and 2009 are detailed in the table below.

CANADIAN MINES PRODUCING COPPER IN CONCENTRATE, 2007-09

Name of Mine	Operator	2007	2008	2009
		(tonnes)		
Brunswick	Xstrata plc	8 344	6 000	7 000
Copper Rand (includes Joe Mann)	Campbell Resources Inc.	1 914	2 853	—
Duck Pond	Aur Resources Inc.	12 000	13 000	14 000
Gibraltar (McLeese Lake)	Taseko Mines Limited	24 766	26 717	30 890
Gibraltar SX/EW	Taseko Mines Limited	1 089	1 542	998

Greenwood gold mine	Merit Mining Corp.	—	400	—
Fabie Bay	First Metals Inc.	—	5 000	—
Highland Valley	Teck Cominco	139 000	119 000	118 000
Huckleberry	Imperial Metals Corp.	25 013	16 882	15 876
Hudson Bay 777 and Trout Lake	HudBay Minerals Inc.	54 300	51 500	48 397
Lac des Iles	North American Palladium Ltd.	2 511	2 097	—
Kemess South	Northgate Exploration Limited	30 903	23 544	23 812
Kidd Creek	Xstrata plc	46 615	42 723	43 600
Montcalm	Xstrata plc	5 582	5 091	1 179
Mouska	Iamgold	—	308	320
Langlois	Breakwater Resources	1 315	1 994	—
LaRonde	Agnico-Eagle	7 482	7 128	7 146
Minto	Capstone Mining Corporation	4 727	20 865	28 123
Mount Polley	Imperial Metals Corporation	26 084	27 354	15 359
Myra Falls	Breakwater Resources Limited	6 086	5 024	3 653
Perseverance	Xstrata plc	—	3 793	8 600
Raglan	Xstrata plc	6 729	6 402	7 188
Sudbury Operations (1)	Vale	122 000	129 000	55 000
Sudbury Division Strathcona mill Cu output	Xstrata plc	21 853	19 138	21 600
Troilus	Inmet Mining Corporation	2 800	5 700	5 900
Voisey's Bay	Vale	42 000	55 000	24 000
Total		593 113	598 055	480 640

Source: Author's calculations based on company reports.

— Nil.

(1) In 2009, included output from the Copper Cliff, Creighton, Stovie, Garson, McCreedy/East Coleman, and Gertrude mines, plus three mines owned by FNX Mining Company Inc.

Mined copper output of 495 000 t in 2009 represented an 18.5% decrease from 2008 output of 607 000 t. Nearly all of the decline was attributable to prolonged strikes at Vale's Sudbury operations and at the Voisey's Bay mine in Newfoundland and Labrador. The trend in mine production, excluding Vale's operations, reveals a year-on-year decline of only 3%. Details on significant developments at individual operations are discussed in the Canadian Developments section.

Based on data reported to Natural Resources Canada via monthly surveys, refined copper production was 335 900 t in 2009, compared with 443 700 t in 2008. Operations at both of the refineries that operated during the year – Kidd Creek in Timmins, Ontario, and Canadian Copper Refinery (CCR) in Montréal, Quebec – were affected by lower anode receipts from the Canadian smelters supplying these plants.

CANADIAN DEVELOPMENTS

Mined copper output from Vale's Canadian operations was severely affected by prolonged strikes at both the Voisey's Bay mine and the Sudbury nickel operations, where copper is produced alongside nickel. Reported 2009 mined copper output from the Sudbury operations was 55 000 t, a 56% decline from the previous year. Reported smelter production was 42 000 t of copper, compared to 115 000 t in 2008.

Vale announced an eight-week shut-down at the Sudbury nickel mining and processing facility starting in June 2009 in response to weak global demand for nickel. This was followed by a strike announcement on July 13 by unionized maintenance and production employees at the Sudbury and Port Colbourne operations. Partial production at the Sudbury mine site resumed in September 2009 and focused on operating two high-copper mining zones at the company's Clarabelle mill. The strike at Sudbury ended on July 13, 2010, when workers ratified a new five-year collective bargaining agreement.

Mined copper output from the Voisey's Bay nickel mine was reported at 24 000 t in 2009, down 56% from 2008 output of 55 000 t. Operations were affected by a four-week shut-down in July, followed by a strike that began on August 3, 2009, which, as of September 23, 2010, remained unresolved.

The Kidd Creek copper smelter and refinery was temporarily shut down for eight weeks in early April in response to weak demand for the sulphuric acid that is produced as a by-product from its smelting operations. A second shut-down of approximately eight weeks was announced in September in response to a shortage of third-party copper concentrates brought on by tight global copper concentrate supplies and a lack of feed from local supplier Vale due to the strike action at its Sudbury operations.

In December, Xstrata plc announced that operations at its Kidd Creek copper and zinc metallurgical plants in Timmins would permanently cease on May 1, 2010, as part of a plan to restructure its Canadian metallurgical operations. The Kidd Creek mine and concentrator remain in operation. Low global smelting and refining charges, low sulphuric acid prices, rising costs, and the appreciation of the Canadian dollar against the U.S. dollar were all cited by Xstrata as factors in its decision to close the plants. The copper concentrate produced at the Kidd mine is being shipped to the Horne smelter in Rouyn-Noranda for processing.

Production at Xstrata's Montcalm mine was temporarily suspended at the end of March and then indefinitely suspended from June onward due to an unacceptable risk profile following unplanned ground movement.

In August, Hudbay Minerals Inc. announced plans to permanently close its copper smelter in Flin Flon, Manitoba, by July 1, 2010, and its copper refinery in White Pine, Michigan. Copper anodes produced at the Flin Flon plant were shipped to the White Pine refinery for further processing into copper cathodes. The age of the plant, poor terms for buying third-party concentrates, and new limits for sulphur dioxide and mercury emissions under federal regulations were factors in the closure decision. A filtration plant and concentrate load-out facility were installed in 2009 to allow the shipment of copper concentrates produced at HudBay Minerals' 777 and Trout Lake mines to domestic smelters or to ports for overseas shipment.

HudBay Minerals' 2009 exploration activities resulted in the discovery of a new copper-gold zone at the Lalor deposit. The new zone is separate and distinct from the base-metal and gold zones that the company first discovered in 2007. In October 2009, HudBay filed an updated NI 43-101 mineral resource estimate for the base-metal zone and an \$85 million capital investment for Phase 1 mine development of the deposit was approved. In 2010, HudBay will spend \$8.3 million to further explore the Lalor Lake deposit, including further outlining the new copper-gold zone. (Additional details on the development of Lalor can be found in the *Canadian Minerals Yearbook's* 2009 chapter on zinc.)

A two-year extension of the mine life at Huckleberry, to early 2012, was announced in June 2009. Huckleberry, located in northwestern British Columbia, is owned by Imperial Metals Corporation (50%) and a consortium of Japanese companies (50%).

Construction work on the Copper Mountain project advanced in 2009 towards a mid-2011 start-up date. The project, owned by Vancouver-based Copper Mountain Mining Corporation (75%) and Mitsubishi Materials Corporation (25%), is located near Princeton, British Columbia, and consists of a 35 000-t/d concentrator and a super pit that incorporates three former pits mined prior to 1996. During 2009, site excavation for the concentrator was completed and mill foundation work began. The mine is expected to produce an average of 47 000 t of copper annually over the first 12 years of an estimated 17-year mine life.

New Gold Inc. advanced work on development of its New Afton mine, located 10 km from Kamloops in south-central British Columbia. This new underground mine is expected produce an estimated average of 34 000 t of copper, 214 000 oz of silver, and 85 000 oz of gold annually over a 12-year mine life starting in the second half of 2012. During 2009, \$50 million of the approximately \$410 million capital cost of the project was spent to advance development of the underground and surface infrastructure to 92% completion.

In November, Taseko Mines Limited announced it had entered into a joint-venture agreement with a Japanese consortium (Sojitz Corporation, Dowa Mining, and Furukawa) under which the Japanese partners would pay Taseko \$187 million for a 25% interest in the Gibraltar copper-molybdenum mine in north-central British Columbia. During 2009, Taseko advanced work on a project to expand the mill capacity at Gibraltar from 46 000 t/d to 55 000 t/d by the end of 2010.

Xstrata's CCR refinery in Montréal-East produced 278 200 t of cathode in 2009, a 19% decline compared to 2008, due to reduced supply from Vale as a result of the strike at Sudbury and lower output at the Horne smelter.

In 2009, cathode production from the Kidd Creek refinery dropped by 38% from 2008 levels to 54 100 t as a result of lower anode production from the Kidd Creek smelter. With the closure of the Kidd Creek smelter in 2010, Xstrata's CCR refinery in Montréal will be the sole remaining copper refinery in Canada.

MARKET REVIEW AND OUTLOOK

Global Supply/Demand and Price Outlook

WORLD COPPER USAGE BY REGION/COUNTRY

	2007	2008	2009	2008/07	2009/08
	(000 tonnes)			(% change)	
United States	2 137	2 020	1 952	-5.5	-3.4
Other America	1 082	1 103	619	1.9	-43.9
Europe	5 145	4 889	3 862	-5.0	-21.0
Japan	1 252	1 184	875	-5.4	-26.1

China	4 957	5 202	7 189	4.9	38.2
Other Asia	3 246	3 214	3 274	-1.0	1.9
Oceania	148	151	130	2.0	-13.9
Africa	272	299	306	9.9	2.3
Total world	18 239	18 062	18 207	-1.0	0.8
World excluding China	13 282	12 860	11 018	-3.2	-14.3

Source: International Copper Study Group, June 2010 bulletin, Tables 2 and 7.

A country and regional breakdown of world copper usage, or demand, over the 2007-09 period indicates that demand for copper in 2009 contracted in virtually every region or country other than Africa and China. A strong 38% growth in Chinese demand was able to offset declines elsewhere, resulting in a small year-on-year net increase in global demand of just 0.8%, according to International Copper Study Group (ICSG) figures published in June 2010. The phenomenal rate of growth in demand from China was partly fueled by infrastructure spending by the Chinese government, a shortage of scrap, and restocking of strategic stockpiles. This growth rate is not expected to be maintained in 2010.

On the supply side, growth in mined copper output was sluggish at 1.5%, continuing a trend in slow growth that began in 2005. A number of factors are contributing to the sluggish supply growth, including pit stability issues, slower-than-expected ramp-ups at new mines, strikes, weather, and declining average grades at several of the largest copper mines.

ACTUAL AND FORECAST WORLD COPPER SUPPLY AND DEMAND

	2008	2009	2010	2011	09/08	10/09	11/10
	(000 t)				(% change year on year)		
Mine production	15 528	15 756	16 805	17 301	1.5	6.7	3.0
Refined production	18 222	18 401	18 515	19 094	1.0	0.6	3.1
Copper usage	18 062	18 206	17 937	18 851	0.8	-1.5	5.1
Refined copper balance (1)	160	195	578	243	n.a.	n.a.	n.a.

Source: International Copper Study Group, 2010-2011 Forecast, issued April 30, 2010.

n.a. Not applicable.

(1) Refined production minus copper usage.

A supply/demand balance forecast for 2009 and 2010, released by the ICSG in June 2010, indicated that world refined copper supply growth of 1.5% only slightly outpaced growth in copper demand of 0.8%. As a result, the balance between world demand and supply was a small surplus of 195 000 t, virtually the same level as the calculated 2008 surplus of 160 000 t. The ICSG forecasted a surplus in 2010 and 2011. However, more recent forecasts, which reflect strong second-quarter demand data, are indicating a deficit in 2010 and 2011 based on the expectation that global demand for copper is accelerating and that supply growth will not keep pace in the near term.

Although the average price of copper in 2009 fell to US\$2.34/lb from the 2008 average of US\$3.15/lb, prices climbed steadily throughout the year as Chinese demand for refined copper remained strong, in part due to low scrap availability, while markets experienced the above-noted supply disruptions. London Metal Exchange copper prices climbed from US\$1.39/lb at the start of the year to US\$3.33/lb at year-end. Steady demand growth and the low level of global stocks should result in continued firm prices. Copper prices are expected to hold above the US\$3.20/lb level through 2012. Beyond 2012, mine supply growth from new projects and expansions could outpace demand and put downward pressure on prices.

OTHER COPPER INFORMATION

Applications

Copper is used in many applications. Due to its high electrical conductivity, a primary application of copper is in the fabrication of wire and cable used to carry power and signals. The high conductivity means good efficiency and fewer losses due to electrical resistance. Copper's good corrosion resistance means that it is a very durable electrical conductor. High conductivity means a smaller cross-section for wires relative to other metals, which is important for small motors, hand tools, and crowded conduit spaces. However, in long-distance transmission lines, the heavier density of copper relative to conductivity means that aluminum is preferred over copper as the current-carrying metal for such lines.

Copper also has a high thermal conductivity that makes it a choice material for heat exchangers such as automotive radiators and those used for solar heating. More information about the applications of copper can be found on the web sites of various copper development organizations. An extensive review of applications is available at www.copperinfo.com/cproducts/index.html.

Copper Use in Canada

Canadian copper use is not surveyed on an annual basis. However, apparent use can be calculated by adding the imports of refined copper to the reported domestic shipments of copper producers. For 2009, drawing from the Canadian data table at the beginning of this chapter, apparent consumption would be calculated by adding 10 566 t of refined imports to 131 554 t of producers' domestic shipments, for a total of 142 120 t.

Other Information Sources on Copper Use in Canada

The Canadian Copper & Brass Development Association (CCBDA) assists copper and copper alloy users on many matters, including technical information. Its web site contains technical information that can be ordered on-line for such topics as alloy castings, tubing, forgings, etc. Technical assistance and library services are also available. The membership includes both users and producers of copper. Companies making wire, tubes, rod, plumbing fixtures, castings, and forgings are among those that are members of the CCBDA. The Association's web site can be found at www.ccbda.org.

The Canadian Association of Recycling Industries (CARI) is Canada's national organization for recycling industries, of which metal recycling, and copper recycling in particular, is an important component. The Association represents companies through the entire chain of recycling from scrap collection to processing and utilization (www.cari-acir.org).

The Canadian Foundry Association (CFA), formed in 1975, is the national association of foundries in Canada. Its members include brass and bronze foundries. The CFA's web site, located at www.foundryassociation.ca, contains a membership list with links to the members' web sites. In addition, Industry Canada maintains a web site that allows searches for companies engaged in the semi-fabrication of metals and fabrication metals, including copper and copper alloys. The Canadian Company Capabilities data base can be searched using terms such as "copper," "brass" or "bronze." The site is located at www.ic.gc.ca/eic/site/ccc-rec.nsf/eng/home.

Natural Resources Canada maintains a Canadian recycling web site at www.nrcan.gc.ca/mms-smm/busi-indu/rec-rec-eng.htm. A key feature of the site is a searchable database of Canadian companies involved in metals and minerals recycling.

Other Sources of Copper Information

Much more information is available on copper supply, demand, and uses, as well as on the health and environmental aspects of copper. Good sources of information on production are the web sites of those companies that produce copper. Securities information is available from SEDAR, the System for Electronic Document Analysis and Retrieval (see www.sedar.com).

Production, trade, and capacity data are published by the International Copper Study Group, an intergovernmental organization consisting of 22 member countries served by a secretariat based in Lisbon, Portugal. Various publications are sold by the ICSG, including its monthly *Copper Bulletin*. Yearly subscriptions are available. In addition, the ICSG sells a *Directory of Copper Mines and Plants* spanning a five-year period. Details of these and other publications are available at www.icsg.org in the "Publications" section.

The International Copper Association (ICA) maintains a web site located at www.copperinfo.com/index4.html with information about:

- copper products: building products, consumer and electronic items, transportation, agriculture, industrial applications, machinery, and future applications;
- energy efficiency: air conditioners and refrigerators, copper bus bars, motors, power cables, solar energy, transformers, and case studies;
- health and nutrition: aquatic life, biological importance, copper deficiency, copper research, information flow project, drinking water, good health with copper, plant and animal health, pregnancy and infants, public health benefits, quick facts, and ICA research;
- environment: climate change mitigation, copper research, information flow project, energy conservation, natural presence, recycling, sustainability, and ICA research; and
- about copper: copper alloys, copper exchanges, copper markets, copper mining, and copper products.

The U.S. Geological Survey (USGS) is another source of detailed information on the world copper industry. The copper information available includes yearly reviews, monthly articles, and an annual summary. The copper portal for the USGS is located at <http://minerals.usgs.gov/minerals/pubs/commodity/copper/>.

Information about copper use is also available from the International Wrought Copper Council. Its site, located at www.coppercouncil.org, has links to member companies and organizations.

A NOTE ON STATISTICS BASED ON "PRODUCTION" VS. "SHIPMENTS"

Canadian statistics include a report of "mine production" (which is actually mill or concentrator production) that represents the total amount of copper produced in concentrates by Canadian mines. However, Canadian statistics also include a "primary production" figure, which is actually the total amount of copper contained in concentrates that is shipped from the mine site in a year. This measure of production is less widely used and is not consistent with the definitions used by the ICSG; Canadian "mine production" data are consistent with the ICSG definition.

The preliminary estimate for 2009 shipments of copper in concentrates ("primary production") was 481 374 t, which is less than the over 583 376 t of copper in concentrates reported as being produced in 2009. The production data are usually higher than shipments as production relates to the total content of copper in concentrates produced whereas the shipments data relate to the estimated recoverable copper in concentrates shipped. In certain instances, material produced at the end of one year may not be shipped until the next year, causing a further difference between the data series.

Companies may show production data that report the total amount of copper contained in the concentrates produced in a year or the “payable production” may be shown. The latter reflects the amount of copper for which the mine is paid by the custom smelter. The deduction reflects the inability of the smelters to achieve 100% recoverability of the copper in the feed material. For some operations that report payable production, it is possible to calculate the production of copper contained if one knows the tonnage of ore processed, the copper grade of the material processed, and the recovery factor at the mill.

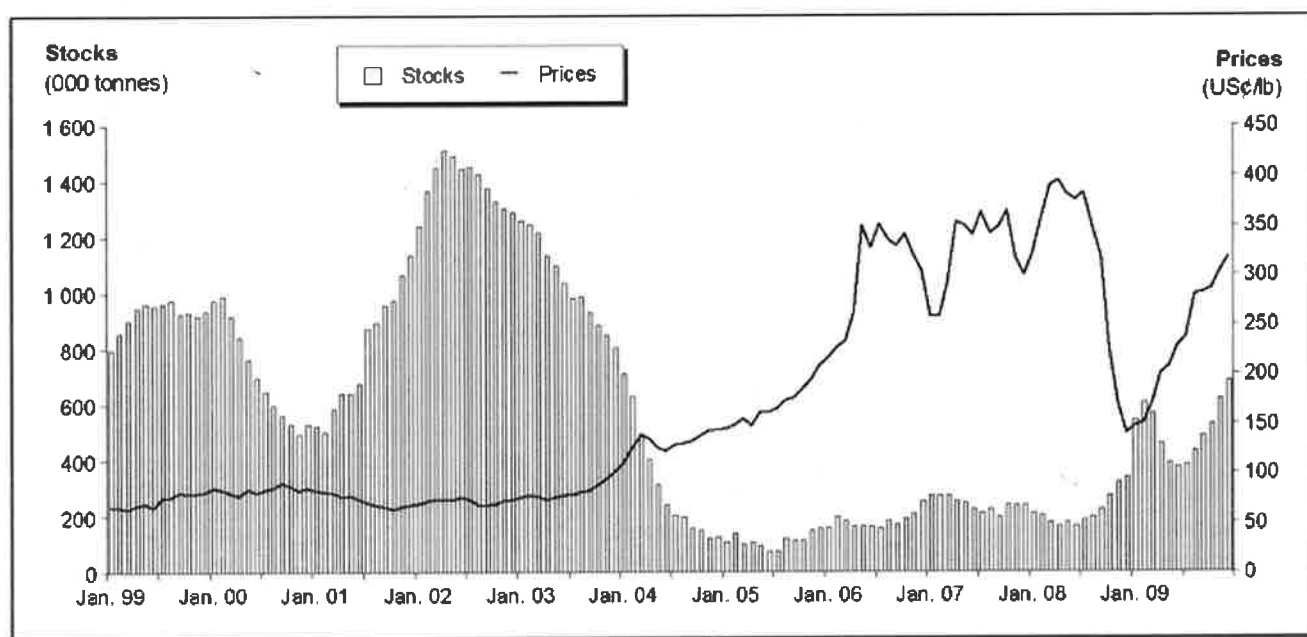
¹ London Metal Exchange Official Daily Settlement Price, US\$/lb.

Notes: (1) For definitions and valuation of mineral production, shipments, and trade, please refer to the chapter entitled “Definitions and Valuation: Mineral Production, Shipments, and Trade.” (2) Information in this review was current as of September 20, 2010. Some information on developments related to copper supply/demand and price trends that occurred in 2010 has been included. (3) Various Internet sites have been identified in this article. Please note that Natural Resources Canada has no control over the content of the web sites of other organizations, which may be modified, updated, or deleted at any time. (4) This and other reviews, including previous editions, are available on the Internet at <http://www.nrcan.gc.ca/minerals-metals/business-market/canadian-minerals-yearbook/4070>.

Note to Readers

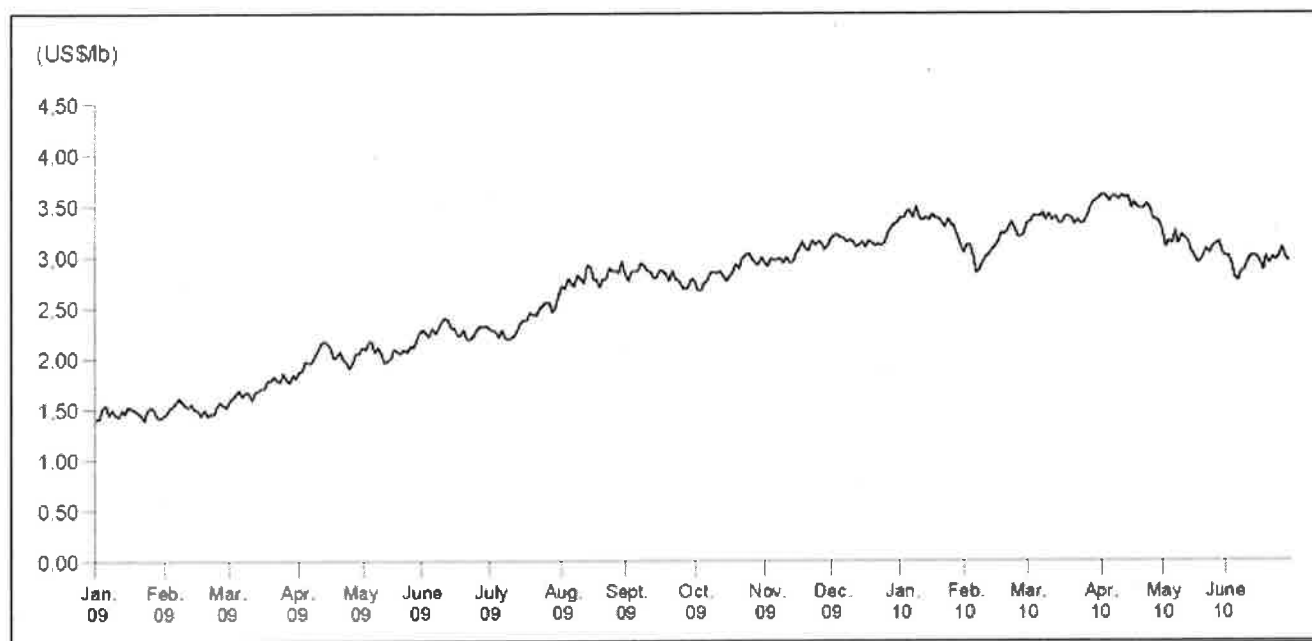
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Figure 1
Copper, Exchange Stocks and Prices, 1999-2009



Sources: London Metal Exchange; International Copper Study Group.

Figure 2
Copper, Daily London Metal Exchange Cash Settlement Price, January 2009 to June 2010



Source: London Metal Exchange.

TARIFFS

Item No.	Description	Canada		United States		EU	Japan
		MFN	GPT	USA	Canada	Conventional Rate (1)	WTO (2)
26.03	Copper ores and concentrates	Free	Free	Free	Free	Free	Free
26.04	Nickel ores and concentrates	Free	Free	Free	Free	Free	Free
26.07	Lead ores and concentrates	Free	Free	Free	Free	Free	Free
26.08	Zinc ores and concentrates	Free	Free	Free	Free	Free	Free
2616.10	Precious metal ores and concentrates: silver ores and concentrates	Free	Free	Free	Free	Free	Free
2620.30	Slag, ash and residues (other than from the manufacture of iron or steel) containing metals, arsenic or their compounds: containing mainly copper	Free	Free	Free	Free	Free	Free
2825.50	Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides: copper oxides and hydroxides	Free	Free	Free	Free	3.2%	4.8%
2833.25	Sulphates; alums; peroxosulphates (persulphates): other sulphates: of copper	Free-5.5%	Free	Free	Free	3.2%	3.9%
2836.99	Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate: other: other	Free-3.5%	Free-3%	Free	Free	3.7-5.5%	3.3%
2837.19	Cyanides, cyanide oxides and complex cyanides: cyanides and cyanide oxides: other	Free	Free	Free	Free	5.5%	3.3%
3212.90	Pigments (including metallic powders and flakes) dispersed in non-aqueous media, in liquid or paste form, of a kind used in the manufacture of paints (including enamels);	Free-3%	Free	Free	Free	6.5%	2.1-4.1%

	stamping foils; dyes and other colouring matter put up in forms or packings for retail sale: other						
74.01	Copper mattes; cement copper (precipitated copper)	Free	Free	Free	Free	Free	Free
74.02	Unrefined copper; copper anodes for electrolytic refining	Free	Free	Free	Free	Free	Free-3%
74.03	Refined copper and copper alloys, unwrought						
7403.11	Refined copper: cathodes and sections of cathodes	Free	Free	Free	Free	Free	Free-3%
7403.12	Refined copper: wire-bars	Free	Free	Free	Free	Free	Free-3%
7403.13	Refined copper: billets	Free	Free	Free	Free	Free	Free-3%
7403.19	Refined copper: other	Free	Free	Free	Free	Free	Free-3%
7403.21	Copper alloys: copper-zinc base alloys (brass)	Free	Free	Free	Free	Free	Free
7403.22	Copper alloys: copper-tin base alloys (bronze)	Free	Free	Free	Free	Free	Free-3%
7403.29	Copper alloys: other copper alloys (other than master alloys of heading 74.05)	Free	Free	Free	Free	Free	Free-3%
74.04	Copper waste and scrap	Free	Free	Free	Free	Free	Free
74.05	Master alloys of copper	Free	Free	Free	Free	Free	3%
7406.10	Copper powders and flakes: powders of non-lamellar structure	Free	Free	Free	Free	Free	3%
7406.20	Copper powders and flakes: powders of lamellar structure; flakes	Free	Free	Free	Free	Free	3%
74.07	Copper bars, rods and profiles						
7407.10	Of refined copper	2.5-3%	Free	Free	Free	4.8%	3%
7407.21	Of copper alloys: of copper-zinc base alloys (brass)	Free-2%	Free	Free	Free	4.8%	3%
7407.29	Of copper alloys: other	2-3%	Free	Free	Free	4.8%	3%
74.08	Copper wire						
7408.11	Of refined copper: of which the maximum cross-sectional dimension exceeds 6 mm	Free-3%	Free	Free	Free	4.8%	3%
7408.19	Of refined copper: other	3%	Free	Free	Free	4.8%	3%
7408.21	Of copper alloys: of copper-zinc base alloys (brass)	Free-3%	Free	Free	Free	4.8%	3%
7408.22	Of copper alloys: of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel-silver)	2.5-3%	Free	Free	Free	4.8%	3%
7408.29	Of copper alloys: other	2.5-3%	Free	Free	Free	4.8%	3%
74.09	Copper plates, sheets and strip, of a thickness exceeding 0.15 mm						
7409.11	Of refined copper: in coils	Free	Free	Free	Free	4.8%	3%
7409.19	Of refined copper: other	Free	Free	Free	Free	4.8%	3%
7409.21	Of copper-zinc base alloys (brass): in coils	Free	Free	Free	Free	4.8%	3%
7409.29	Of copper-zinc base alloys (brass): other	Free	Free	Free	Free	4.8%	3%
7409.31	Of copper-tin base alloys (bronze): in coils	Free	Free	Free	Free	4.8%	3%
7409.39	Of copper-tin base alloys (bronze): other	Free	Free	Free	Free	4.8%	3%

7409.40	Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel-silver)	Free	Free	Free	Free	4.8%	3%
7409.90	Of other copper alloys	Free	Free	Free	Free	4.8%	3%
74.10	Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials), of a thickness (excluding any backing) not exceeding 0.15 mm						
7410.11	Not backed: of refined copper	Free	Free	Free	Free	5.2%	3%
7410.12	Not backed: of copper alloys	Free	Free	Free	Free	5.2%	3%
7410.21	Backed: of refined copper	Free	Free	Free	Free	5.2%	3%
7410.22	Backed: of copper alloys	Free	Free	Free	Free	5.2%	3%
74.11	Copper tubes and pipes						
7411.10	Of refined copper	2.5%	Free	Free	Free	4.8%	3%
7411.21	Of copper alloys: of copper-zinc base alloys (brass)	2%	Free	Free	Free	4.8%	3%
7411.22	Of copper alloys: of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel-silver)	2.5%	Free	Free	Free	4.8%	3%
7411.29	Of copper alloys: other	2.5%	Free	Free	Free	4.8%	3%
74.12	Copper tube or pipe fittings (for example, couplings, elbows, sleeves)						
7412.10	Of refined copper	3%	Free	Free	Free	5.2%	Free
7412.20	Of copper alloys	3%	Free	Free	Free	5.2%	Free
74.13	Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated						
74.15	Nails, tacks, drawing pins, staples (other than those of heading 83.05) and similar articles, of copper or of iron or steel with heads of copper; screws, bolts, nuts, screw hooks, rivets, cotters, cotter-pins, washers (including spring washers) and similar articles, of copper						
7415.10	Nails and tacks, drawing pins staples and similar articles	2.5%	Free	Free	Free	4%	Free
7415.21	Other articles, not threaded: washers (including spring washers)	3%	Free	Free	Free	3%	Free
7415.29	Other articles, not threaded: other	3%	Free	Free	Free	3%	Free
7415.33	Other threaded articles: screws; bolts and nuts	Free-3%	Free	Free	Free	3%	Free
7415.39	Other threaded articles: other	3%	Free	Free	Free	3%	Free
74.18	Table, kitchen or other household articles and parts thereof, of copper; pot scourers and scouring or polishing pads, gloves and the like of copper; sanitary ware and parts thereof, of copper						
7418.11	Pot scourers and scouring or polishing pads, gloves and the like	3%	Free	Free	Free	3%	Free
7418.19	Other	3%	Free	Free	Free	3-4%	Free
7418.20	Sanitary ware and parts thereof	3%	Free	Free	Free	3%	Free
74.19	Other articles of copper						
7419.10	Chain and parts thereof	3%	Free	Free	Free	3%	Free
7419.91	Other: cast, moulded, stamped or forged, but not further worked	Free-3%	Free	Free	Free	3%	Free
7419.99	Other: other	Free-9.5%	Free-5%	Free	Free	3-4.3%	Free

Sources: Canadian *Customs Tariff*, effective January 2010, Canada Border Services Agency; *Harmonized Tariff Schedule of the United States*, 2010; *Official Journal of the European Union* (Tariff Information), October 31, 2009 edition; *Customs Tariff Schedules of Japan*, 2010.

GPT General Preferential Tariff; MFN Most Favoured Nation; WTO World Trade Organization.

(1) The customs duties applicable to imported goods originating in countries that are Contracting Parties to the General Agreement on Tariffs and Trade or with which the European Community has concluded agreements containing the most-favoured-nation tariff clause shall be the conventional duties shown in column 3 of the Schedule of Duties. (2) WTO rate is shown; lower tariff rates may apply circumstantially.

TABLE 1. COPPER MINE PRODUCTION, SHIPMENTS, AND TRADE, 2007-09

Item No.		2007		2008		2009 (p)	
		(kilograms)	(\$000)	(kilograms)	(\$000)	(kilograms)	(\$000)
MINE PRODUCTION (1)		596 248 600	..	607 956 884	..	489 441 529	..
SHIPMENTS (2)							
	Newfoundland and Labrador	62 579 959	478 737	66 902 245	496 013	38 525 706	222 524
	New Brunswick	8 905 768	68 129	7 187 554	53 289	7 936 687	45 842
	Quebec	21 607 319	165 296	37 216 773	275 925	28 811 842	166 417
	Ontario	180 992 078	1 384 589	186 360 961	1 381 680	118 684 416	685 521
	Manitoba	55 516 755	424 703	51 512 290	381 912	48 934 603	282 646
	British Columbia	245 458 070	1 877 754	217 571 608	1 613 076	210 077 009	1 213 405
	Yukon	2 485 191	19 012	17 251 905	127 906	27 409 628	158 318
	Total	577 545 140	4 418 220	584 003 336	4 329 801	480 379 891	2 774 674
	Refined	453 453 225	..	442 050 371	..	335 052 327	..
EXPORTS							
2603.00.10	Copper ores and concentrates: copper content						
	Japan	102 880	748 363	95 632	682 693	72 720	398 187
	China	25 114	184 930	22 820	138 557	53 497	265 533
	South Korea	12 703	80 376	19 439	131 079	31 732	175 110
	United States	10 639	16 488	55 824	126 257	42 890	126 860
	Philippines	4 162	26 453	12 962	93 895	21 115	121 524
	Germany	29 434	150 601	70 845	250 300	13 574	82 949
	Sweden	10 609	83 603	22 713	50 761	9 340	59 736
	Bulgaria	—	—	11 000	8 826	5 877	24 842
	India	13 038	104 679	8 743	44 597	3 784	20 694
	Spain	6 506	47 099	12 702	49 990	2 781	15 690
	Other countries	1 037	9 128	1 512	10 561	—	—
	Total	216 122	1 451 720	334 192	1 587 516	257 310	1 291 125
2604.00.00.10, 2607.00.00.10, 2608.00.00.10, 2616.10.00.10	Silver ores and concentrates: copper content						
	Belgium	1	5	23	203	397	970
	Germany	1 078	9 309	44	361	45	966
	China	154	481	2	11	7	47

	India	—	—	—	—	3	25
	Other countries	2 458	22 082	18 134	37 955	—	—
	Total	3 691	31 877	18 203	38 530	452	2 008
2620.30	Copper ash and residues						
	United States	204	952	319	1 210	451	1 476
	China	—	—	—	—	78	175
	Total	204	952	319	1 210	529	1 651
2825.50	Copper oxides and hydroxides						
	United Arab Emirates	...	...	—	—	—	—
	United States	24	179	—	—	—	—
	Total	24	179	—	—	—	—
2833.25	Copper sulphates						
	United States	9 521	11 514	10 078	10 724	4 350	7 427
	Denmark	—	—	—	—	20	48
	South Korea	—	—	12	59	12	21
	Singapore	—	—	—	—	5	9
	Taiwan	—	—	—	—	5	9
	Greece	36	61	—	—	3	4
	Other countries	536	940	96	163	...	...
	Total	10 093	12 515	10 186	10 946	4 395	7 518
7401.00	Copper mattes; cement copper (precipitated copper)						
	Norway	24 140	177 948	21 071	152 153	19 080	106 643
	China	—	—	—	—	1 686	2 554
	Australia	15	76	235	1 127	67	229
	United States	158	678	—	—	—	—
	Total	24 313	178 702	21 306	153 280	20 833	109 426
7402.00	Copper anodes						
	United States	86 152	651 404	85 220	627 136	62 073	342 770
	United Kingdom	...	2	—	—	10	32
	Australia	—	—	—	—	2	13
	Denmark	—	—	—	—	1	3
	Other countries	9 750	70 421	10	51	...	...
	Total	95 902	721 827	85 230	627 187	62 086	342 818
7403.11 and and 7403.19	Refined copper and copper alloys, unwrought; refined copper						
	United States	244 206	1 817 741	242 277	1 906 378	189 301	1 032 672
	China	—	—	18	803	19 274	78 447
	Italy	47 786	351 399	41 445	314 895	9 172	37 369
	United Kingdom	—	—	—	—	2 570	9 751
	Finland	—	—	97	736	592	2 223

	Hong Kong	—	—	—	—	201	1 325
	Taiwan	405	2 980	834	5 041	207	823
	Thailand	—	—	—	—	115	535
	Other countries	5 316	42 567	5 320	41 803	207	447
	Total	297 713	2 214 687	289 991	2 269 656	221 639	1 163 592
7403.21 and 7403.29	Refined copper and copper alloys, unwrought; other copper alloys						
	United States	6 166	25 677	4 329	25 228	1 634	10 274
	India	21	126	64	347	211	1 060
	Mexico	—	—	45	247	5	26
	South Korea	—	—	—	—	3	20
	Austria	—	—	2	15	1	5
	Other countries	8	84	49	175	1	4
	Total	6 195	25 887	4 489	26 012	1 855	11 389
7404.00	Copper waste and scrap						
	China	87 662	248 064	95 259	254 357	105 992	208 588
	United States	41 003	223 226	41 987	228 470	32 157	144 786
	Hong Kong	4 259	7 322	1 146	1 934	1 915	3 730
	South Korea	2 553	11 858	4 535	11 705	799	3 027
	Belgium	17 308	7 407	3 788	5 687	1 898	2 257
	India	1 588	6 751	713	2 555	565	1 646
	Taiwan	1 465	2 127	1 913	2 714	475	1 122
	Italy	556	2 848	188	613	180	1 034
	Vietnam	905	466	358	361	894	900
	Spain	426	903	690	1 399	641	866
	Japan	621	2 647	841	2 240	174	817
	Other countries	4 955	12 889	1 975	7 438	766	1 784
	Total	163 301	526 508	153 393	519 473	146 456	370 557
7405.00	Master alloys of copper						
	Sweden	—	—	—	—	48	614
	United States	26	177	40	313	—	—
	Netherlands	—	—	1	5	—	—
	Total	26	177	41	318	48	614
7406.10 and 7406.20	Copper powders and flakes						
	United States	17	211	1	30	13	155
	Germany	—	—	1	10	4	33
	Other countries	47	643	23	160	—	2
	Total	64	854	25	200	17	190
7407.10 and 7407.29	Copper bars, rods and profiles of refined copper and copper alloys						
	United States	785	6 576	805	8 233	1 226	9 540

	Poland	11	59	4	51	9	108
	South Africa	—	—	1	7	8	98
	Germany	—	—	6	72	4	40
	Vietnam	—	—	—	—	2	23
	South Korea	—	—	1	33	1	17
	Trinidad and Tobago	—	—	—	—	1	13
	Taiwan	—	—	—	—	1	13
	Russia	...	5	—	—	1	11
	Other countries	33	303	19	240	...	26
	Total	829	6 943	836	8 636	1 253	9 889
7408.29	Copper wire of refined copper and copper alloys						
	United States	126 323	962 276	115 912	902 360	89 511	516 385
	Colombia	2 955	25 467	2 943	25 915	2 681	25 583
	Dominican Republic	2 353	18 783	1 653	14 459	1 072	5 987
	Trinidad and Tobago	2 779	19 423	2 763	18 922	1 086	5 533
	Kuwait	—	—	693	5 889	695	4 652
	Cuba	3 426	25 778	1 844	14 559	408	2 802
	Jamaica	256	2 016	287	2 388	318	1 787
	Brazil	1	3	197	1 680	177	1 472
	Barbados	163	1 048	196	1 164	185	1 051
	Other countries	601	3 931	4 375	34 363	239	1 501
	Total	138 857	1 058 725	130 863	1 021 699	96 372	566 753
7409.11 and 7410.22	Copper and copper alloy plates, sheets, strip and foil						
	Hong Kong	7	81	50	339	41	291
	United States	13	109	—	—	11	117
	Australia	—	—	...	1	5	46
	Pakistan	—	—	—	—	6	40
	China	1	7	2	12	5	35
	United Arab Emirates	...	2	2	13	4	24
	Brazil	—	—	—	—	1	13
	Other countries	65	305	36	248	1	20
	Total	86	504	90	613	74	586
7411.10 and 7411.29	Copper tubes and pipes						
	United States	9 637	87 182	11 011	105 059	9 839	74 122
	India	47	236	105	1 386	390	4 348
	Singapore	105	1 217	178	2 329	54	649
	China	219	1 208	437	2 785	64	469
	United Kingdom	276	2 473	302	3 413	39	354
	Panama	31	305	17	206	21	229

	Saudi Arabia	—	—	12	145	16	165
	Sri Lanka	4	48	—	—	11	140
	Australia	32	367	29	347	12	119
	Other countries	94	659	194	1 868	57	527
	Total	10 445	93 695	12 285	117 538	10 503	81 122
		(n.a.)	(\$000)	(n.a.)	(\$000)	(n.a.)	(\$000)
7412.10 and 7412.20	Copper tube or pipe fittings (e.g., couplings, elbows, sleeves)						
	United States	..	33 221	..	32 971	..	24 305
	China	..	540	..	18	..	429
	New Zealand	..	59	..	21	..	363
	Australia	..	94	..	66	..	92
	South Africa	..	70	..	175	..	55
	United Arab Emirates	..	63	..	154	..	54
	Russia	..	139	..	129	..	53
	Chile	..	42	..	12	..	50
	Other countries	..	944	..	856	..	492
	Total	..	35 172	..	34 402	..	25 893
		(n.a.)	(\$000)	(n.a.)	(\$000)	(n.a.)	(\$000)
7413.00	Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated						
	United States	473	4 958	1 190	10 108	315	3 631
	Australia	1	4	47	374	55	427
	Madagascar	—	—	1	6	5	42
	Nigeria	...	...	—	—	4	28
	Mexico	8	36	39	463	2	18
	United Kingdom	22	166	10	80	2	17
	France	1	12	17	132	1	11
	Greenland	...	1	—	—	1	10
	Indonesia	...	1	1	6	1	10
	Other countries	28	224	60	515	5	59
	Total	533	5 402	1 365	11 684	391	4 253
		(n.a.)	(\$000)	(n.a.)	(\$000)	(n.a.)	(\$000)
7415, 7416, 7419	Other items of copper						
	United States	..	36 490	..	34 987	..	18 989
	Sweden	..	7	..	47	..	495
	United Kingdom	..	177	..	137	..	406
	United Arab Emirates	..	100	..	223	..	384
	Germany	..	545	..	996	..	278
	China	..	333	..	271	..	265
	Saudi Arabia	..	2	..	35	..	230

	Singapore	..	159	..	246	..	222
	Peru	..	69	..	73	..	182
	Mexico	..	173	..	374	..	173
	India	..	14	..	28	..	171
	France	..	87	..	132	..	170
	Cameroon	—	—	..	2	..	134
	Other countries	..	3 093	..	1 961	..	1 227
	Total	..	41 249	..	39 512	..	23 326
Total exports		..	6 407 575	..	6 468 412	..	4 012 710
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
IMPORTS (1)							
2603.00.00.10	Copper ores and concentrates: copper content						
	United States	23 285	157 096	28 090	198 191	23 270	107 117
	Peru	27 427	181 038	12 129	84 745	24 732	105 636
	Bulgaria	4 354	27 550	4 240	29 436	3 533	17 253
	Other countries	1 793	8 897	29 357	77 674	55	222
	Total	56 859	374 581	73 816	390 046	51 590	230 228
2604.00.00.10, 2607.00.00.10, 2608.00.00.10, 2616.10.00.10	Other ores and concentrates: copper content						
	Australia	—	—	—	—	690	3 829
	South Africa	2 189	17 323	...	...	318	1 183
	Other countries	379	1747	30	110	...	...
	Total	2 568	19 070	30	110	1 008	5 012
2620.30	Copper ash and residues						
	United States	75 708	132 195	53 230	90 072	40 036	56 659
	Australia	4 779	29 485	8 934	25 610	9 737	11 316
	Taiwan	248	513	4 864	11 820	4 016	9 624
	Germany	2 680	5 177	5 109	12 079	3 883	8 450
	Other countries	8 477	20 298	1	...	...	...
	Total	91 892	187 668	72 138	139 581	57 672	86 049
2825.50.00.10 and 2825.50.00.20	Copper oxides and hydroxides						
	United States	2 840	11 517	3 298	13 815	1 392	7 433
	China	2	6	...	...	14	44
	Japan	1	4	2	5	3	12
	Other countries	6	24	10	68	1	4
	Total	2 849	11 551	3 310	13 888	1 410	7 493
2833.25	Copper sulphates						
	China	4 723	11 413	3 562	9 773	4 935	12 312
	Russia	3 022	6 952	4 565	13 100	4 002	9 797

	Chile	3 978	8 359	5 802	11 813	5 210	8 724
	United States	2 413	6 014	2 190	5 753	2 343	5 254
	Taiwan	1 410	3 433	1 742	4 821	1 059	2 494
	Peru	459	1 200	623	1 878	387	801
	Mexico	122	387	166	475	243	510
	Other countries	1 469	3 303	916	3 095	270	558
	Total	17 596	41 061	19 566	50 708	18 449	40 450
2836.99.10.20	Copper carbonates						
	United States	...	1	3	7	1	2
2836.99.90.10	Other copper carbonates						
	United States	10	23	5	11	4	9
	Peru	—	—	—	—	2	4
	China	11	25	...	1	1	2
	Other countries	11	25	3	6	...	...
	Total	32	73	8	18	7	15
2837.19.00.10	Copper cyanides						
	United States	22	133	12	90	9	74
	South Korea	8	59	3	23	1	9
	Other countries	—	—	...	...	...	...
	Total	30	192	15	113	10	83
3212.90.90.12	Pigments based on copper or copper alloy powders and flakes						
	United States	19	238	5	93	22	248
	Germany	1	24	3	50	1	23
	Other countries	2	31	...	...	...	...
	Total	22	293	8	143	23	271
7401.00.00.10	Copper mattes						
	United States	9 849	25 705	6 086	6 974	1 085	1 322
	China	—	—	1	1	—	—
	Total	9 849	25 705	6 087	6 975	1 085	1 322
7401.00.00.20	Cement copper (precipitated copper)						
	Malaysia	174	355	—	—	—	—
	Peru	506	1 733	—	—	—	—
	United States	1 732	3 532	2	4	—	—
	Other countries	14	31	17	35	—	—
	Total	2 426	5 651	19	39	—	—
7402.00.00.10 to 7402.00.00.20	Copper anodes						
	Chile	98 552	671 591	88 309	642 997	69 956	368 627
	United States	3 135	10 212	5 388	31 667	11 889	39 510
	Belgium	—	—	503	2 080	61	224

	United Kingdom	15	22	27	135	14	72
	Other countries	...	...	1	2	10	14
	Total	101 702	681 825	94 228	676 881	81 930	408 447
7403.11 to 7403.19	Refined copper and copper alloys, unwrought; refined copper						
	United States	5 397	38 101	10 574	72 968	10 436	58 307
	Germany	146	1 281	229	1 772	64	434
	Japan	6	39	18	152	33	268
	Serbia	—	—	—	—	24	145
	Other countries	6 166	47 428	833	5 978	9	74
	Total	11 715	86 849	11 654	80 870	10 566	59 228
7403.21 to 7403.29	Refined copper and copper alloys, unwrought; copper alloys						
	United States	9 392	74 144	11 650	96 020	4 796	20 220
	China	208	1 531	183	1 888	27	250
	Taiwan	131	33	131	29	3	73
	United Kingdom	33	216	2	202	2	48
	Germany	3	112	1	112	1	43
	Italy	2	23	2	41	4	41
	Other countries	61	597	38	291	8	109
	Total	9 830	76 656	12 007	98 583	4 841	20 784
7404.00	Copper waste and scrap						
	United States	142 139	224 615	50 184	228 870	40 050	139 158
	Cuba	819	3 226	996	4 773	1 215	5 383
	Canada	85	159	33	164	306	822
	Jamaica	—	—	—	—	36	251
	China	16	122	29	211	17	139
	Costa Rica	23	97	117	91	35	115
	Other countries	125	569	309	1 649	122	258
	Total	143 207	228 788	51 668	235 758	41 781	146 126
7405.00	Master alloys of copper						
	United States	233	1 362	110	956	49	371
	China	75	543	74	615	30	246
	Other countries	92	598	38	316	22	149
	Total	400	2 503	222	1 887	101	766
7406.10 and 7406.20	Copper powders and flakes						
	United States	3 350	18 930	2 266	17 240	1 778	11 545
	Italy	12	78	11	120	78	591
	France	198	1 235	139	1 400	40	331
	Spain	—	—	4	47	10	119
	Other countries	346	2 001	10	104	36	305

	Total	3 906	22 244	2 430	18 911	1 942	12 891
7407.10 and 7407.29	Copper bars, rods and profiles of refined copper and copper alloys						
	United States	38 969	282 699	33 392	250 184	16 691	94 847
	China	272	2 992	362	3 734	353	3 083
	South Korea	382	2 834	788	5 499	464	3 026
	Mexico	151	1 528	314	3 126	222	2 109
	Germany	310	3 601	357	3 307	200	1 952
	France	321	3 286	252	2 567	212	1 742
	India	507	3 566	471	3 362	245	1 523
	Switzerland	6	96	30	233	222	1 450
	United Kingdom	110	1 362	77	1 224	56	781
	Italy	29	239	55	505	72	608
	Peru	79	724	137	1 362	76	601
	Other countries	610	5 341	388	3 511	287	2 141
	Total	41 746	308 268	36 623	278 614	19 100	113 863
7408.11 and 7408.29	Copper wire of refined copper and of copper alloys						
	United States	41 347	324 230	37 652	297 614	35 669	210 427
	Germany	148	1 744	97	1 538	120	1 419
	South Korea	230	1 924	112	991	140	994
	France	40	759	37	863	36	888
	Mexico	75	592	621	1 368	84	663
	China	69	556	52	467	54	412
	United Kingdom	34	473	31	494	29	354
	Malaysia	42	431	94	710	49	327
	Taiwan	39	465	27	281	37	271
	Vietnam	—	—	...	2	21	257
	Japan	35	434	28	378	22	232
	Other countries	549	4 148	68	720	54	490
	Total	42 608	335 756	38 819	305 426	36 315	216 734
7409.11 and 7410.22	Copper and copper alloy plates, sheets, strip and foil						
	United States	17 639	155 260	12 646	121 116	10 643	93 015
	Germany	2 501	24 925	2 903	25 774	2 089	15 770
	India	890	4 497	1 695	6 904	1 542	9 887
	Luxembourg	488	4 381	367	5 708	453	7 192
	China	687	5 266	497	4 011	1 037	5 106
	Bulgaria	20	164	435	4 350	596	4 512
	Japan	206	3 465	246	8 041	88	3 397
	Taiwan	401	4 506	313	3 999	193	3 034
	France	5	53	7	88	79	2 768

	Netherlands	2 280	16 616	1 387	10 927	370	2 520
	Sweden	822	5 720	508	5 239	228	1 974
	Other countries	2 179	14 349	1 457	10 106	268	2 081
	Total	28 118	239 202	22 461	206 263	17 586	151 256
7411.10	Copper tubes and pipes of refined copper						
	United States	8 097	79 806	7 073	69 130	4 571	43 338
	China	3 268	29 612	5 526	50 136	1 919	13 961
	Chile	756	7 210	900	7 609	1 278	8 814
	Mexico	181	1 857	652	7 389	736	6 792
	South Korea	1 655	14 435	1 162	11 307	902	6 303
	Malaysia	200	1 896	344	3 496	214	1 910
	Germany	112	1 457	52	827	66	832
	France	100	534	75	872	63	723
	Finland	6	63	6	61	39	600
	Other countries	59	546	72	698	122	1 032
	Total	14 434	137 416	15 862	151 525	9 910	84 305
7411.21	Pipes and tubes, copper-zinc base alloys						
	China	716	7 387	988	10 377	539	4 564
	United States	416	4 632	493	5 456	293	3 362
	Germany	254	2 374	136	1 374	161	1 249
	Mexico	34	392	188	2 221	79	699
	Serbia	65	526	64	518	67	419
	India	4	41	...	3	38	377
	Taiwan	16	191	7	81	10	141
	Chile	1	10	36	308	20	129
	Portugal	—	—	—	—	29	118
	Other countries	32	392	33	664	15	227
	Total	1 538	15 945	1 945	21 002	1 251	11 285
7411.22	Pipes and tubes, copper-nickel base alloys or copper-nickel-zinc base alloys						
	United States	278	3 335	174	2 703	185	3 175
	China	58	776	106	1 452	84	837
	Mexico	170	1 196	64	849	42	531
	United Kingdom	20	160	12	183	8	302
	Germany	3	45	15	310	3	130
	Other countries	19	186	16	243	16	156
	Total	548	5 698	387	5 740	338	5 131
7411.29	Plates and tubes, copper alloys, n.e.s.						
	United States	618	8 116	756	11 167	610	7 616
	China	73	681	318	2 872	196	1 488

	Mexico	8	81	12	152	7	161
	South Korea	3	32	10	129	23	155
	Other countries	36	556	32	492	16	288
	Total	738	9 466	1 128	14 812	852	9 708
7412.10	Fittings, pipe or tube, of refined copper						
	United States	1 171	12 498	868	15 367	722	12 184
	South Korea	345	4 405	634	6 579	730	7 765
	China	291	3 192	354	4 346	402	4 580
	Germany	22	440	21	290	52	1 890
	Spain	7	97	9	90	37	468
	Brazil	43	252	29	291	19	219
	Poland	3	25	2	10	14	207
	Taiwan	4	46	13	244	10	195
	United Kingdom	...	...	2	24	6	117
	Other countries	70	903	64	756	10	155
	Total	1 956	21 858	1 996	27 997	2 002	27 780
7412.20	Fittings, pipe or tube, copper alloys						
	United States	6 040	47 486	5 492	43 258	4 009	31 964
	China	4 167	19 901	3 914	26 050	3 241	23 390
	Taiwan	960	6 301	892	7 286	731	6 872
	South Korea	494	5 876	997	4 419	2 317	5 331
	Australia	1	28	49	1 522	116	4 084
	Germany	270	3 336	249	4 743	123	2 413
	Italy	239	2 372	196	2 015	219	1 997
	Indonesia	231	938	407	2 413	247	1 588
	Mexico	116	635	188	1 146	139	1 100
	Thailand	176	946	84	802	79	790
	India	24	289	38	587	63	748
	United Kingdom	40	735	31	397	72	624
	Other countries	323	2 778	296	2 925	184	2 545
	Total	13 081	91 610	12 833	97 563	11 540	83 446
7413.00	Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated						
	United States	11 190	72 804	10 644	74 612	9 132	51 085
	Germany	97	617	66	488	55	258
	China	6	59	8	144	19	149
	Thailand	...	...	3	30	9	77
	Mexico	15	173	2	42	5	70
	India	...	3	...	4	10	44
	Canada	548	4 799	27	223	6	35

	Other countries	54	525	49	533	18	137
	Total	11 910	78 980	10 799	76 076	9 254	51 855
7415.10	Nails, tacks, drawing pins, staples and similar articles of copper or of iron or steel with copper heads						
	United States	23	248	30	314	44	330
	China	56	339	61	231	45	175
	Taiwan	6	73	20	134	9	85
	Italy	4	25	1	15	2	16
	Japan	1	4	...	4	1	9
	United Kingdom	1	11	1	10	1	6
	Belgium	1	14	—	—	1	5
	Germany	1	8	1	7	...	5
	Other countries	5	28	17	36	...	1
	Total	98	750	131	751	103	632
7415.21	Copper washers, including spring washers						
	United States	687	2 001	1 326	2 100	373	1 419
	China	92	723	44	531	141	505
	South Korea	1 778	472	1 519	233	1 397	232
	United Kingdom	13	240	28	332	16	181
	Germany	9	92	21	107	52	105
	Other countries	132	746	97	578	49	331
	Total	2 711	4 274	3 035	3 881	2 028	2 773
7415.29	Articles of copper, not threaded, n.e.s., similar to those of headings 7415.10 and 7415.21						
	United States	562	3 321	601	3 428	214	2 380
	China	132	483	82	401	34	303
	New Zealand	39	259	18	330	7	134
	France	23	144	17	170	18	128
	Canada	2	18	2	16	6	94
	Other countries	432	522	73	461	33	366
	Total	1 190	4 747	793	4 806	312	3 405
7415.33	Screws, bolts and nuts of copper, excluding wood screws						
	United States	958	4 078	666	3 331	564	2 858
	Taiwan	298	1 515	399	1 525	358	1 220
	China	217	2 015	273	2 350	143	1 168
	Germany	295	575	257	700	162	296
	United Kingdom	5	48	7	119	20	151
	Indonesia	7	105	13	207	7	110
	Other countries	142	496	147	465	61	294
	Total	1 922	8 832	1 762	8 697	1 315	6 097
7415.39	Articles of copper, threaded, n.e.s., similar to bolts, nuts and screws						

	United States	582	2 296	641	2 087	452	2 553
	China	72	921	121	1 376	84	1 069
	Germany	10	303	12	441	11	444
	Taiwan	42	506	28	237	39	243
	Other countries	10	352	14	262	14	218
	Total	716	4 378	816	4 403	600	4 547
7419.10	Chain and parts thereof of copper						
	United States	20	177	14	183	24	215
	China	20	128	11	72	12	78
	South Korea	2	27	7	25	2	26
	Italy	1	16	1	16	1	10
	Other countries	4	23	...	40	1	22
	Total	47	371	33	336	40	351
7419.91	Articles of copper, not further worked than cast, moulded, stamped or forged						
	United States	1 253	17 182	630	11 495	674	11 096
	Italy	94	1 275	61	741	45	606
	China	50	626	174	1 121	95	575
	Taiwan	33	386	77	455	111	443
	Indonesia	33	380	20	240	24	311
	Canada	...	3	...	2	16	189
	India	1	8	12	126	9	116
	Other countries	40	347	46	228	26	139
	Total	1 504	20 207	1 020	14 408	999	13 475
		(n.a.)	(\$000)	(n.a.)	(\$000)	(n.a.)	(\$000)
7419.99	Articles of copper, n.e.s.						
	United States	..	26 132	..	27 253	..	22 078
	China	..	13 015	..	14 638	..	9 289
	Taiwan	..	3 585	..	3 360	..	3 005
	India	..	3 110	..	3 020	..	1 959
	Germany	..	2 866	..	2 509	..	1 506
	Italy	..	1 268	..	1 689	..	1 059
	United Kingdom	..	1 296	..	753	..	1 002
	Thailand	..	557	..	676	..	766
	France	..	328	..	704	..	584
	Mexico	..	318	..	604	..	560
	Switzerland	..	256	..	88	..	501
	Indonesia	..	346	..	429	..	376
	Finland	..	506	..	1	..	291
	Canada	..	280	..	274	..	282

Japan	..	150	..	194	..	153
Sweden	..	92	..	139	..	109
Brazil	..	26	..	66	..	108
Other countries	..	2 063	..	2 550	..	568
Total	..	56 194	..	58 947	..	44 186
Total imports	..	3 108 663	..	2 995 765	..	1 849 996

Sources: Natural Resources Canada; Statistics Canada.

– Nil; . . Not available; . . . Amount too small to be expressed; n.a. Not applicable; n.e.s. Not elsewhere specified; (p) Preliminary.

(1) Copper contained in concentrates produced. (2) Anode copper recovered in Canada from domestic concentrates plus exports of payable copper in concentrate and matte. (3) Imports from "Other countries" may include re-imports from Canada.

Notes: HS Code change from 7401.10 and 7401.20 to 7401.00.00 as of 2007. HS Code change from 7401.10 to 7401.00.00.10 as of 2007. HS Code change from 7401.20 to 7401.00.00.20 as of 2007. HS Code change from 7414.20, 7414.90 and 7416.00 to 7419.99.90.90 as of 2007. Numbers may not add to totals due to rounding.

TABLE 2. CANADA, COPPER PRODUCTION, TRADE (1) AND USE, HISTORICAL, 1988-2009

	Production		Exports		Imports		Use
	Shipments (2)	scope="row" Refinery Output	Concentrates and Matte (6)	Refined (5)	Total (4)	Refined (7)	Refined (3)
	(tonnes)						
1988	758 478	528 723	348 404	268 680	617 084	4 660	236 281
1989	704 432	515 216	348 811	321 690	670 501	4 408	213 046
1990	771 433	515 835	374 875	335 941	710 816	2 611	180 605
1991	780 362	538 339	348 080	377 985	726 065	2 321	159 170
1992	761 694	539 302	346 842	385 761	732 603	8 916	156 132
1993	709 650	561 580	319 840	408 364	728 204	21 155	185 565
1994	590 784	549 869	237 553	388 568	626 121	19 594	199 350
1995	700 843	572 616	274 492	434 691	709 183	24 176	189 550
1996	652 499	559 200	409 578	384 337	793 915	28 700	218 280
1997	647 779	560 582	515 547	381 475	897 023	22 602	224 776
1998	690 762	562 261	433 685	355 826	789 511	18 685	246 212
1999	581 583	548 563	355 839	294 107	649 946	16 475	266 504
2000	621 889	551 393	426 007	288 334	714 341	11 875	272 076
2001	614 312	567 720	359 634	308 898	668 531	7 994	265 210
2002	584 195	494 522	311 920	238 117		11 692	274 133

					550 036		
2003	540 998	454 866	196 538	218 810	415 349	21 712	257 338
2004	544 558	526 955	180 910	279 741	460 651	53 336	297 184
2005	577 304	515 223	275 281	296 958	572 238	64 638	289 721
2006	586 489	500 463	288 939	279 946	568 885	58 715	300 567
2007	577 545	453 453	219 814	297 713	517 528	11 716	206 048
2008	584 003	442 050	352 395	289 991	642 386	11 653	...
2009 (p)	480 380	335 052	257 762	221 641	479 403	10 566	...

Sources: Natural Resources Canada; Statistics Canada.

... Not available; (p) Preliminary.

(1) Beginning in 1988, exports and imports are based on the new Harmonized System and may not be in complete accordance with previous method of reporting. (2) From 1975 to 1988, anode copper recovered in Canada from domestic concentrate plus exports of payable copper in concentrates and matte. Starting in 1989 to date, recoverable copper in concentrate shipped. (3) Producers' domestic shipments of refined copper plus imports of refined shapes. (4) Data include HS Codes 2603.00.10, 2604.00.00.10, 2607.00.00.10, 2608.00.00.10, 2616.10.00.10, 7401.10, and 7401.20. (5) Data include HS Codes 7403.11 to 7403.19. (6) Data included HS Code 2603.00.10, 2604.00.00.10, 2607.00.00.10, 2608.00.00.10 and 2616.10.00.10. (7) Data include HS Codes 7403.11 to 7403.19.

Notes: Numbers may not add to totals due to rounding. The Use survey is currently suspended by Natural Resources Canada.

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