



INTERNATIONAL WROUGHT COPPER COUNCIL

**SURVEY OF CAPACITIES OF COPPER MINES, SMELTERS,
REFINERIES AND COPPER WIRE ROD PLANTS
FEBRUARY, 2002 EDITION**

TABLES & NOTES

(In the tables, an "N" in the right hand column denotes an entry in these Notes, an "NN" denotes a new or altered Note)

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Mines

smelted by ZCCM on toll.

Mopani Copper Mines

Glencore 46% / First Quantum Minerals 44% / ZCCM 10%. Sold to Mopani Copper Mines 31/3/00.

Mopani Copper Mines - Mufulira

Res: 27.23Mt @ 3.04% Cu

Mopani Copper Mines - Nkana

NN Res: 75.33Mt @ 2.26% Cu
Negotiations with Kafue consortium collapsed 3/98. Includes Mindola, Central Shaft, and SOB mines. Sold to Mopani 31/3/00.

Phelps Dodge/Equinox Resources - Lumwana

Possible 102,000tpy Cu mine.

Ramcoz - Baluba

N Res: 27.5Mt @ 2.46% Cu
Binani Group 85% / ZCCM 15%. Sold by ZCCM to Binani Group 7/97. Offered for sale by receiver 3/01.

Ramcoz - Luanshya

N Res: 18Mt @ 2.35% Cu
Sold by ZCCM to Binani Group 7/97. Includes Luanshya and Baluba mines. One week strike 10/98. Ramcoz in receivership 11/00. Refinancing reported 12/00. Production to resume 2/01, but disrupted by flooding. Offered for sale by receiver 3/01.

Ramcoz - Muliashi

Res: 46.5Mt @ 1.42% Cu
Binani / Mittal / Dalla Albaraka / ZCCM 15%. Feasibility study completed on Muliashi North Deposit 3/98 for possible 34,000tpy SXEW. Planned s/u 7/02. Construction s/u delayed to 1/01.

ZIMBABWE

Bindura Nickel - Bindura

N Anglo American 80% / Zimbabwe government 20%. Production as copper sulphide.

Mhangura Copper Mines (ZMDC) - Miriam

Res: 4.6Mt @ 1.05% Cu
Closed 3/99.

Munyati Mining - Sanyati SXEW

N Res: 19.96Mt @ 1.21% Cu
5,000tpy SXEW operation s/u 10/95 for 8-10 years. Reunion withdrew 1998. Production suspended 3/00.

COPPER MINE CAPACITIES - NORTH AMERICA

COUNTRY OWNER	MINE	1997 CAP	1997 MINE PROD	1998 CAP	1998 MINE PROD	1999 CAP	1999 MINE PROD	2000 CAP	2000 MINE PROD	2001 CAP	2001 MINE PROD	2002 CAP	2003 CAP	2004 CAP	2005 CAP	
INMET	TROILUS, QUE	5.0	5.1	5.0	4.9	5.0	5.4	5.0	4.8	5.0		5.0	5.0	5.0	5.0	N
INMET	WINSTON LAKE/PICK LAKE, ONT	2.0	1.5	1.0	0.5	0.0		0.0		0.0		0.0	0.0	0.0	0.0	N
TOTAL INMET		7.0	6.6	6.0	5.4	5.0	5.4	5.0	4.8	5.0		5.0	5.0	5.0	5.0	
LAC DES ILES MINES LTD	LAC DES ILES, ONT															
MING METALS	MING/RAMBLER	0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0	0.0	N
MSV RESOURCES	COPPER RAND & PORTAGE, QUE	4.5		0.0		0.0		0.0		0.0		0.0	0.0	0.0	0.0	N
NORANDA	BELL ALLARD, QUE							5.0	5.0	5.0		5.0	5.0	5.0	5.0	N
NORANDA	BRUNSWICK NO 12, NB	8.4	7.0	8.4	7.9	8.4		8.4		8.4		8.4	8.4	8.4	8.4	N
NORANDA	GALLEN, QUE			1.0		1.0		1.0		0.0		0.0	0.0	0.0	0.0	NN
NORANDA	GASPE MINES, QUE	25.0	25.2	25.0	24.7	22.0	21.8	0.0		0.0		0.0	0.0	0.0	0.0	N
NORANDA	HEATH STEELE, NB	5.0	5.6	5.0	5.0	1.0	2.0	0.0		0.0		0.0	0.0	0.0	0.0	N
NORANDA	MATAGAMI, QUE	3.0	3.3	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	
TOTAL NORANDA		41.4	41.1	39.4	37.6	32.4		14.4		13.4		13.4	13.4	13.4	13.4	
NORTHGATE EXPLORATION	KEMESS PASS, BC			10.0	9.5	25.0	20.0	25.0	22.9	25.0		25.0	25.0	25.0	25.0	N
NOVICOURT/AUR/TECK-COMINCO	LOUVICOURT, QUE	55.0	56.2	55.0	55.7	55.0	65.0	55.0	50.8	55.0		55.0	55.0	55.0	55.0	N
PRIME RESOURCES	ESKAY CREEK	0.8		0.8		0.8		0.8		0.8		0.8	0.8	0.8	0.8	N
TASEKO MINES	GIBRALTAR, BC	30.0		30.0	31.8	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	N
TASEKO MINES	GIBRALTAR DL, BC	4.5		2.2	2.2	0.0		0.0		0.0		0.0	0.0	0.0	0.0	N
TOTAL TASEKO MINES		34.5		32.2	34.0	0.0		0.0		0.0		0.0	0.0	0.0	0.0	
TECK-COMINCO	AFTON MILL (AJAX), BC	5.0	4.5	0.0		0.0		0.0		0.0		0.0	0.0	0.0	0.0	N
TOTAL		704.3		799.2		701.2		757.0		744.0		713.0	718.0	718.0	718.0	
NATIONAL PRODUCTION (PER WBMS)			659.5		705.8		620.1		634.2		632.8					
HONDURAS																
ROSARIO RESOURCES (BREAKWATER)	EL MOCHITO	0.7		0.7		0.7		0.7		0.7		0.7	0.7	0.7	0.7	

COPPER SMELTER CAPACITIES - AFRICA

COUNTRY OWNER	TYPE	LOCATION	1997 CAP	1997 SMELT PROD	1998 CAP	1998 SMELT PROD	1999 CAP	1999 SMELT PROD	2000 CAP	2000 SMELT PROD	2001 CAP	2001 SMELT PROD	2002 CAP	2003 CAP	2004 CAP	2005 CAP		
ZAMBIA																		
AVMIN		CHAMBISHI RLE	14.0	13.3	10.0	10.2	0.0		7.0		7.0		7.0	7.0	7.0	7.0		
KONKOLA COPPER MINES		NCHANGA TLP	100.0	61.1	100.0	54.8	100.0	56.0	100.0		100.0		100.0	100.0	100.0	100.0		N
MOPANI COPPER MINES	ELEC	MUFULIRA	185.0	102.1	160.0	96.4	160.0	85.0	160.0		160.0		160.0	160.0	160.0	160.0		N
RAMCOZ (BINANI)	REV	LUANSHYA	60.0	25.2	60.0		0.0		0.0		0.0		0.0	0.0	0.0	0.0		N
SMELTERCO	OXY/CMT	NKANA	240.0	99.8	240.0	110.4	240.0	101.6	240.0		240.0		240.0	240.0	240.0	240.0		NN
TOTAL			599.0	301.5	570.0		500.0	242.6	507.0		507.0		507.0	507.0	507.0	507.0		
NATIONAL PRODUCTION (PER WBMS)				264.2		255.1		289.0		308.3		306.0						
ZIMBABWE																		
BINDURA NICKEL	AU	BINDURA	2.4		2.4		2.4		2.4		2.4		2.4	2.4	2.4	2.4		N
CORSYN CONSOLIDATED MINES		INYATI	5.0		5.0		5.0		5.0		5.0		5.0	5.0	5.0	5.0		
EMPRESS NICKEL MINING CO (RTZ)		EIFFEL FLATS	8.0		8.0		8.0		8.0		8.0		8.0	8.0	8.0	8.0		
MHANGURA COPPER MINES (ZMDC)	REV	ALASKA	30.0	7.7	30.0	7.2	5.0		0.0		0.0		0.0	0.0	0.0	0.0		N
TOTAL			45.4		45.4		20.4		15.4		15.4		15.4	15.4	15.4	15.4		
NATIONAL PRODUCTION (PER WBMS)				18.0		18.0		14.5		14.5		5.3						
TOTAL FOR AFRICA			1223.4		1194.4		1056.4		1072.4		1086.4		1061.4	1061.4	1061.4	1061.4		
TOTAL PRODUCTION FOR AFRICA (PER WBMS)				510.4		470.0		481.8		529.7		509.6						

COPPER REFINERY CAPACITIES - EUROPE

COUNTRY	LOCATION	1997 CAP	1997 REF PROD	1998 CAP	1998 REF PROD	1999 CAP	1999 REF PROD	2000 CAP	2000 REF PROD	2001 CAP	2001 REF PROD	2002 CAP	2003 CAP	2004 CAP	2005 CAP	
TURKEY																
ANADOLU BAKIR	HENDEK	8.0		8.0	5.2	8.0	5.6	8.0	6.7	8.0		0.0	0.0	0.0	0.0	N
ELBAK	KAYSERI	7.4	6.7	9.0	6.9	0.2	0.2	0.0		0.0		0.0	0.0	0.0	0.0	
ERBAKIR	DENIZLI	18.0	15.9	18.0	15.3	18.0	12.5	18.0	12.4	18.0		18.0	18.0	18.0	18.0	
HES	CAYSERI	17.0	8.0	17.0	8.5	17.0	6.5	17.0	8.0	17.0		17.0	17.0	17.0	17.0	
SARKUYSAN	GEBZE	70.0	56.0	70.0	55.9	70.0	35.7	70.0	37.0	70.0		70.0	70.0	70.0	70.0	N
TELKA RABAK	ISTANBUL	36.0	18.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	
TOTAL		156.4	104.6	122.0	91.8	113.2	60.5	113.0	64.1	113.0		105.0	105.0	105.0	105.0	
NATIONAL PRODUCTION (PER WBMS)			114.6		92.0		60.4		67.1		60.0					
UNITED KINGDOM																
IMI REFINERS	WALSALL	46.0	57.6	46.0		46.0		0.0		0.0		0.0	0.0	0.0	0.0	N
TOTAL		46.0	57.6	46.0		46.0		0.0		0.0		0.0	0.0	0.0	0.0	
NATIONAL PRODUCTION (PER WBMS)			60.4		53.8		50.3		0.0		0.0					
YUGOSLAVIAN FEDERATION																
RTB BOR	BOR	165.0		165.0		165.0		165.0		165.0		165.0	165.0	165.0	165.0	N
TOTAL		165.0		165.0		165.0		165.0		165.0		165.0	165.0	165.0	165.0	
NATIONAL PRODUCTION (PER WBMS)			113.5		94.4		49.9		45.6		32.4					
TOTALFOR EUROPE		2724.4		2738.0		2752.7		2715.5		2797.0		2836.5	2871.5	2871.5	2996.5	
TOTAL PRODUCTION FOR EUROPE (PER WBMS)			2571.8		2486.7		2399.7		2477.8		2440.6					

COPPER WIRE ROD CAPACITIES - EASTERN EUROPE, CHINA, CIS, ETC

COUNTRY OWNER	LOCATION	TYPE	1996 CAP	1997 CAP	1998 CAP	1999 CAP	2000 CAP	2001 CAP	2002 CAP	2003 CAP	2004 CAP	2005 CAP	
CHINA													
BEIJING COPPER	BEIJING	CO	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
BEIJING BEST	BEIJING	SW	15.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
CHANGZHOU ORIENTMET/NIPPON MINING/MITSUI/TATSUT CHANGZHOU, JIANGXU		CO			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
CHANGZHOU ORIENTMET/NIPPON MINING/MITSUI/TATSUT CHANGZHOU, JIANGXU		CO	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	
CHAU ELECTRICAL/DONGGUAN	DONGGUAN				20.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
DONGGUAN CDC	GUANGDONG	OU	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
FUZHOU ELECTRIC WIRE	FUZHOU, FUJIAN	OU	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
GUANGDONG CABLE	GUANGDONG	OU	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
GUANGDONG ELECTRIC WORKS	FOSHAN, GUANGDONG	OU	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
GUANGDONG ELECTRIC WORKS	FOSHAN, GUANGDONG	OU	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
HARBIN ELECTRIC	HARBIN, HEILONGJIANG	DF	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
NANJING WAL SIN WIRE & CABLE	NANJING	SW		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	N
SHANGHAI CABLE WORKS	SHANGHAI		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
SHANGHAI CABLE WORKS	SHANGHAI	OU	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
SHANGHAI COPPER MATERIALS	SHANGHAI	SW	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	
SHENYANG	SHENYANG	OU	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
SHENYANG CABLE	SHENYANG	PR	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
SICHUAN CABLE WORKS	CHENGDU, SICHUAN	PR	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	
SOLARTECH	GUANGDONG	SW			15.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	N
TAI WIRE/JIANGXI COPPER	GUANGZHOU				10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
TAIYUAN COPPER	TAIYUAN, SHANGXI	PR	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	
TIANJIN ENAMELLED WIRE	TIANJIN	DF	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
TONGLING NFM	TONGLING	OU	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
WALSIN LIHWA	GUANDONG	SW					40.0	70.0	70.0	70.0	70.0	70.0	N
WUANBAU SPECIAL ENAMELLED WIRE	GUANGZHOU	OU	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
WUHU JINDA COPPER	WUHU, ANHUI	PR	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
WUXI DONJANG GIC	WUXI	OU	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
XIANGTAN CABLE WORKS	XIANGTAN, HUNAN	CO	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	
XIN XIANG ENAMELLED WIRE	XIN XIANG	OU	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
YUNNAN REFINERY	KUNMING, YUNNAN	SW	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
YUNNAN REFINERY	KUNMING, YUNNAN	SW					25.0	50.0	50.0	50.0	50.0	50.0	N
ZHONG YUAN ICC	SHI JIAZHUNG	OU	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
TOTAL			642.0	757.0	902.0	1067.0	1132.0	1187.0	1187.0	1187.0	1187.0	1187.0	