MULTILATERAL TRADE
NEGOTIATIONS
THE URUGUAY ROUND

RESTRICTED
MTN.GNG/NG3/W/18
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Group of Negotiations on Goods (GATT)

Negotiating Group on Natural
Resource-Based Products

NON-FERROUS METALS AND MINERALS

Updated Information

This paper contains a set of tables on production, consumption and trade of the following base metals: aluminium, copper, lead, nickel, tin and zinc. These tables give updated information of those tables already published in the background studies[1] on the above-mentioned metals which were prepared for the Working Party on Natural Resource-Based Products. The paper also contains m.f.n. tariff treatment based on the HS Nomenclature for those countries which have already submitted their HS tariffs to the secretariat as well as updated lists of non-tariff measures which have been notified to GATT up to the present date. Summary of m.f.n. tariff treatment of other countries based either on H.S. nomenclature where available or on CCCN will be issued as an addendum to this document at a later stage.

[1] MDF/W/61 - Aluminium;
MDF/W/10 - Copper:
MDF/W/20 - Tin;
MDF/W/21 - Nickel;
MDF/W/37 - Zinc;
Spec (83)30/Rev.1 - Lead.

GATT SECRETARIAT
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A L U M I N I U M

TABLE 2

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(as a percentage of world totals)

	Bauxite Production[1]										Alumina Production[2]										Primary Aluminium Production									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries,	62.2	63.4	57.9	51.5	49.6	49.1	51.8	48.8	46.3	47.3	11.2	14.7	20.3	22.1	21.5	20.7	21.9	22.2	23.6	24.5	2.5	3.8	6.6	7.8	9.7	12.0	12.8	17.2	19.2	21.1
of which:																														
Argentina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.8	0.8	0.9	0.9	1.0
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.9	0.9	1.1	1.1	1.1	1.1
Brazil	0.4	0.5	0.7*	1.1	1.2	1.8	4.5	7.0	6.6	7.1	0.4	0.4	0.6*	0.7	1.0	1.4	1.4	2.5	3.2	3.4	0.4	0.5	0.5	0.9	0.9	1.6	1.6	2.9	3.5	4.9
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	0.8	0.5	0.3	0.4	0.3	0.3	0.5	0.5	0.5
Dominican Republic	2.5[3]	2.5[3]	1.9[3,*]	1.4[3]	1.0[3]	0.6[3]	0.6[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dubai	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	1.0	1.0	1.0
Egypt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.7*	1.1	1.2	1.1
Guinea	5.0	4.3	4.1*	5.0	10.9	15.1	15.0	15.9	15.7	16.1	1.9	3.8	2.9	2.2	2.4	2.0	2.1	1.5	1.7	1.6	-	-	-	-	-	-	-	-	-	-
Ghana	0.7[3]	0.9[3]	0.6[3]	0.5[3]	0.4[3]	0.2[3]	0.2[3]	0.1	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.2	1.1	1.1	1.2	-	0.3	0.8
Guyana	9.1[3]	7.8[3]	7.4[3]	4.8[3]	4.9[3]	3.8[3]	3.3[3]	3.3	2.4	2.3	-	2.1	1.5*	1.0	1.1	0.9	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-
Haiti	1.3[3]	1.0[3]	1.1[3]	1.0[3]	0.7[3]	0.6[3]	0.5[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
India	1.4	1.9	2.3	1.7	1.4	2.2	1.9	2.2	2.6	2.6	0.3	0.9	1.4	1.3*	1.3	1.5	1.4	1.6	1.7	1.7	0.4	1.0	1.6	1.2	1.3	1.4	1.2	1.7	1.7	1.7
Indonesia	1.4	1.8	1.8	1.6	1.3	1.2	1.3	1.1	0.9	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.4	1.4
Iran	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	-	0.1	0.3	0.3	0.3[4]
Jamaica	21.1[3]	23.2[3]	20.2[3]	18.0[3]	15.0[3]	12.9[3]	13.0[3]	9.4	7.0	7.6	7.5	5.6	8.0	9.2	8.4	6.4	7.4	4.9	4.8	4.6	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Malaysia	2.7[4]	2.7[4]	1.9	1.5	0.9	0.4	1.0	0.7	0.6	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Mozambique	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pakistan	-	-	-	n.a.	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	0.3	0.3	1.3	1.2	1.0	0.6	0.5	0.5	0.5	0.5	0.1	0.3	1.0	1.0	1.4	1.5	1.6	1.6	1.6	1.6*	-	0.3	1.0	1.1	1.6	1.4	1.5	1.5	1.7	1.7
Sierra Leone	n.a.	0.6	0.8	0.9	0.9	0.8	0.8	1.1	1.3	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suriname	12.5	11.7	10.3	9.3	6.1	5.3	5.3	3.6	4.2	4.1	-	0.5	4.1*	5.1	4.3	4.0	3.6	3.5	3.7	4.2	-	-	0.5	0.4	0.3	0.4*	0.3	0.1	0.2	0.2
Taiwan	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2	0.2	0.2	0.2	0.1	-	-	-	0.2	0.3	0.2	0.3	0.2	0.4	0.4	-	-	-
Turkey	-	-	-	0.5	0.7	0.2	0.6	0.1	0.2	0.3	-	-	n.a.	0.4*	0.3*	0.2*	0.3*	0.2*	0.3*	0.4*	-	-	-	-	0.1	0.2	0.2	0.2	0.3	0.4*
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	3.3	3.7	-	-	0.2	0.2	0.4	1.4	2.0	2.4	2.6	2.7
Yugoslavia	3.7	4.2	3.6	2.9	3.0	3.4	3.4	3.6	4.0	3.8	0.8	0.7	0.6	1.0	1.1	2.6	3.0	3.2	3.3	3.2	0.5	0.6	0.5	0.7	1.3	1.1	1.0	2.0	2.0	2.0
Zimbabwe	n.a.	-	-	n.a.	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								-	-	-
Developed countries,	19.5	18.9	28.8	33.5	36.8	38.5	36.3	39.1	41.0	40.1	68.4	62.6	63.4	62.0	62.0	64.3	63.8	60.9	58.1	57.0	77.4	73.9	72.6	72.2	69.1	68.3	68.3	64.4	61.8	59.3
of which:																														
Australia	0.2	3.2	16.0	23.3	27.2	31.0	29.3	34.1	35.8	35.6	0.3	1.5	10.2	14.9	19.2	22.8	20.6	24.9	25.9	27.1	0.3	1.3	2.0	1.6	1.7	1.8	1.9	4.7	5.5	5.6
Austria	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.2	0.9	0.7	0.7	0.6	0.6	0.6	0.6	0.6
Canada	-	-	-	-	-	-	-	-	-	-	11.1	6.2	5.3	4.2	4.2	2.5	3.5	3.2	3.0	2.9	15.3	11.4	9.4	7.2	6.8	5.7	6.7	7.7	8.3	8.7
EEC	11.8	11.2	9.5	7.7	7.2	5.4	5.3	4.1	4.5	4.0	13.9	11.7	11.8	11.3	13.5	13.0	12.7	15.1	14.4	14.6	12.0	11.9	11.2	14.1	16.8	16.0	16.2	15.0	14.7	15.1
France	7.5	7.1	5.2	3.9	3.3	2.2	2.0	1.7	1.7	1.5	6.6	5.9	4.8	4.1	4.1	3.8	3.6	2.9	2.6	2.5	5.2	5.2	3.7	2.8	3.0	2.6	2.7	2.1	1.9	2.1
Germany, F.R.	-	-	-	-	-	-	-	-	-	-	4.9	4.2	3.6	3.4	4.7	4.7	4.8	4.8	4.9	4.5	3.7	3.5	3.0	4.2	5.3	4.9	4.6	4.9	4.8	4.9
Greece	3.2	3.4	3.9	3.6	3.9	3.2	3.2	2.5	2.7	2.4	n.a.	n.a.	1.5	1.7	1.8	1.5	1.5	1.4	1.2	1.3	-	-	0.9	1.1	1.1	0.9	0.9	0.9	0.8	0.8
Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	1.6	2.0	-	-	-	-	-	-	-	-	-	-
Italy	1.1	0.7	0.4	0.1	-	-	-	-	-	-	2.5	1.7	1.5	1.8	2.6	2.6	2.3	1.8	1.6	1.8	1.9	1.9	1.4	1.4	1.5	1.8	1.7	1.4	1.4	1.6
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	1.4	2.0	1.7	1.6	1.5	1.6	1.7
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	2.1	2.1	2.2	0.6	0.8	1.2	1.2	1.6	1.7	2.4	2.4	2.4	2.3
United Kingdom	-	-	-	-	-	-	-	-	-	-	n.a.	n.a.	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.5	0.4	2.0	2.4	2.4	2.3	1.8	1.8	1.8
Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Japan	-	-	-	-	-	-	-	-	-	-	3.9	4.7	6.1	7.3[5]	5.9[5]	5.6	6.5	4.2	3.9	2.8	2.9	4.5	7.1	8.5	7.9	6.7	6.8	1.8	1.5	1.9
New Zealand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	0.8	1.0	1.0	1.5	1.6	1.5
Norway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	4.2	5.1	4.8	4.6	4.4	4.1	4.8	4.7	4.7
South Africa, Rep. of	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.6	0.5	0.5	1.0	1.1	1.1
Sweden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.5	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5
Switzerland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	1.0	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.5
United States[6]	7.3[3]	4.5[3]	3.2[3]	2.5[3]	2.3[3]	2.0[3]	1.7[3]	0.9	0.8	0.6	39.0	38.4	29.9*	24.3[5]	19.2[5]	20.5	20.5	13.4	11.0	9.6	40.3	37.9	34.9	32.0	27.4	30.0	29.0	25.7	22.5	19.5
Centrally-planned	18.2	17.6	13.4	15.0	13.6	12.3	11.9	12.1	12.7	12.6	20.5	22.7	16.3	15.9	16.5	14.9	14.3	16.9	18.3	18.6	20.1	22.3	20.9	20.0	21.3	19.7	18.9	18.4	19.0	19.7
economies, of which:																														
China, P.R.*	1.3	1.1	0.7	1.1	1.3	1.7	1.8	2.2	2.2	2.4	1.5	1.3	1.3	1.6	1.9	2.2	2.0	2.3	2.8	2.9	1.5	1.4	1.3	2.2	2.3	2.4	2.2	2.7	2.7	3.1
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	0.3*	0.3*	0.4*	0.3*	0.3*	0.2*	0.2*	0.2*	0.6*	0.4*	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2
Germany, D.R.	-	-	-	-	-	-	-	-	-	-	-	-	0.3[5]	0.2[5]	0.2[5]	0.1[5]	0.1[5]	0.1	0.1	0.1*	0.9*	0.7*	0.6*	0.5*	0.5*	0.4*	0.3*	0.4*	0.4*	0.4*
Hungary	4.3	4.0	3.5	3.4	3.7	3.3	3.2	3.2	3.2	3.3	2.4	2.3	2.1[5]	2.4[5]	2.8[5]	2.5[5]	2.4[5]	2.4	2.3	2.4	1.1	0.9	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
North Korea*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	-	0.1	0.1	0.1
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	0.7	1.0	0.8	0.8	0.6	0.6	0.3	0.3	0.3
USSR*[7]	12.7	12.6	9.2	10.5	8.5	7.3	6.9	6.7	7.2	6.9	15.5	18.2	12.3	11.3	11.2	9.8	9.5	11.9	12.8	13.0	15.5	18.2	17.0	15.4	16.7	15.5	15.1	14.4	14.8	15.1
Other	-	-	-	-	-	-	-	-	-	-	1.0	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

[1] Percentages calculated from weight of bauxite as published by official sources, not taking into account variations in composition and moisture content.
[2] Percentages based on calcined alumina for period 1974-1977 and alumina hydrate for period beginning 1978.
[3] Dry weight.
[4] Includes production of Sarawak.
[5] Calcined alumina.
[6] Includes Virgin Islands in the percentages for alumina production.
[7] Includes other raw materials containing aluminium (alunite and nepheline, with 16-18 per cent and 25-30 per cent aluminium oxide, respectively) as well as bauxite with a 25-55 per cent Al_2O_3 content.
* = Estimates
n.a. = not available
Source: Metallstatistiks, 1960-1970, 1965-1975, 1970-1980, 1974-1984, 1976-1986, Metallgesellschaft AG
National statistics for alumina production in 1960 and 1965

TABLE 1

WORLD PRODUCTION OF ALUMINIUM, 1960-1986

(in thousands of metric tons)

	Bauxite Production[1]										Alumina Production[2]										Primary Aluminium Production									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	27,620	37,292	58,536	75,344	77,297	88,852	92,830	92,553	88,921	91,205	9,005	13,191	21,018	27,348	26,680	32,524	34,290	35,253	34,007	34,708	4,528	6,592	10,324	12,837	12,838	15,169	16,051	15,964	15,525	15,552
Developing countries, of which:	17,182	23,657	33,879	38,765	38,365	43,631	48,110	45,133	41,126	43,159	1,005	1,940	4,265	6,042	5,724	6,748	7,528	7,837	8,030	8,490	113	247	683	999	1,228	1,818	2,051	2,744	2,980	3,281
Argentina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	118	133	138	140	151
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103	116	126	126	177	175	178
Brazil	121	188	390*	849	969	1,642	4,152	6,433	5,846	6,446	37	54	120*	201	268	449	493	882	1,096	1,197	18	30	56	112	121	238	261	455	549	757
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	50	52	44	52	45	43	73	82	81
Dominican Republic	689[3]	942[3]	1,090[3,*]	1,086[3]	785[3]	524[3]	511[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dubai	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	155	153	155
Egypt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	101	120*	173	179	177
Guinea	1,378	1,600	2,400*	3,800	8,466	13,379	13,911	14,738	13,956	14,656	173	508	610	615	639	662	708	535	565	572	-	-	-	-	-	-	-	-	-	-
Ghana	194[3]	319[3]	342[3]	349	321[3]	180[3]	197[3]	49	170	204	-	-	-	-	-	-	-	-	-	-	-	-	109	152	143	169	188	-	49	125
Guyana	2,511[3]	2,919[3]	4,309[3]	3,622[3]	3,828[3]	3,354[3]	3,052[3]	3,036	2,153	2,074	-	281	309*	269	294	280	296	-	-	-	-	-	-	-	-	-	-	-	-	-
Haiti	347[3]	383[3]	657[3]	743[3]	522[3]	560[3]	461[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
India	387	706	1,333	1,251	1,094	1,952	1,785	2,078	2,268	2,338	27	120	300	350*	337	500	494	569	571	586	18	64	161	154	167	211	185	268	267	257
Indonesia	396	688	1,040	1,229	993	1,052	1,249	1,003	831	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	217	219
Iran	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	46	11	16	42	43	40*
Jamaica	5,837[3]	8,651[3]	11,821[3]	13,600[3]	11,570[3]	11,505[3]	12,064[3]	8,735	6,239	6,964	676	736	1,689	2,506	2,259	2,074	2,556	1,713	1,622	1,586	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	18	18	18	17	18	17
Malaysia	748[4]	994[4]	1,139	1,143	704	387	920	680	492	566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	34	39	40	43	43	44	43	37
Mozambique	5	6	7	5	5	-	-	-	5	5*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pakistan	1	-	3	n.a.	n.a.	1	-	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	88	108	776	900	779	500	450	460	460	500	10	40	200	282	368	502	558	552	548	550*	-	23	101	141	204	217	241	244	265	260
Sierra Leone	n.a.	207	449	693	716	680	766	1,041	1,185	1,242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suriname	3,455	4,360	6,022	6,976	4,749	4,741	4,903	3,375	3,738	3,731	-	67	870*	1,380	1,148	1,311	1,248	1,237	1,242	1,471	..	3	55	52	35	60*	55	23	29	29
Taiwan	-	-	-	-	-	-	-	-	-	-	9	40	42	55*	46	59	19	-	-	-	8	19	27	35	28	56	64	-	-	-
Turkey	-	10	-	352	558	157	547	132	214	291	-	-	n.a.	109	82*	75*	119*	75*	113*	142*	-	-	-	-	18	32	34	38	54	60*
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,139	1,135	1,269	-	-	23	25	50	205	328	386	403	423
Yugoslavia	1,025	1,574*	2,099*	2,167	2,306	3,012	3,138	3,347	3,538	3,459	73	94	125	275	283	836	1,037	1,135	1,138	1,117	25	39	48	91	166	168	161	312	314	315
Zimbabwe	n.a.	2*	2*	n.a.	n.a.	5	4	23	29	30*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Developed countries, of which:	5,400	7,056	16,836	25,279	28,442	34,245	33,670	36,226	36,480	36,549	6,156	8,252	13,316	16,959	16,552	20,927	21,874	21,452	19,757	19,775	3,503	4,873	7,488	9,272	8,874	10,367	10,959	10,275	9,597	9,215
Australia	70	1,186	9,389	17,596	21,034	27,583	27,179	31,537	31,839	32,432	30	202	2,138	4,089	5,129	7,415	7,079	8,781	8,792	9,423	12	88	204	207	214	270	304	755	852	875
Austria	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	79	90	89	89	93	94	96	94	93
Canada	-	-	-	-	-	-	-	-	-	-	1,004	817	1,105	1,134	1,134	824	1,208	1,126	1,019	1,015	691	753	972	930	878	864	1,068	1,222	1,282	1,355
EEC	3,274	4,189	5,564	5,774	5,603	4,841	4,932	3,833	3,967	3,607	1,253	1,548	2,488	3,087	3,589	4,216	4,339	5,337	4,885	5,061	546	787	1,158	1,812	2,162	2,422	2,599	2,401	2,275	2,342
France	2,067	2,663	3,051	2,970	2,563	1,970	1,892	1,530	1,530	1,379	594	773	999	1,112	1,089	1,239	1,236	1,031	877	884	235	340	381	359	383	395	432	342	293	322
Germany, F.R.	4	4	3	2	1	-	-	-	-	-	437	555	757	922	1,246	1,539	1,651	1,701	1,657	1,560	169	234	309	533	678	742	731	777	745	764
Greece	884	1,274	2,283	2,748	3,006	2,837	3,012	2,296	2,435	2,225	n.a.	n.a.	312	470	475	496	502	482	402	458	-	-	87	143	135	140	146	136	123	124
Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	650	557	685	-	-	-	-	-	-	-	-	-	-
Italy	316	244	225	50	32	26	23	..	-	-	222	220	313	486	697	854	786	625	555	618	84	124	147	184	190	269	271	230	224	243
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	181	258	256	258	247	245	258
Spain	3	4	2*	4	6	8	5	7	2	3*	-	-	-	-	-	-	62	742	729	748	29	53	119	160	210	260	387	381	370	355
United Kingdom	-	-	-	-	-	-	-	-	-	-	n.a.	n.a.	107	97	82	88	102	106	108	108	29	36	40	252	308	360	374	288	275	276
Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	72	62	72	75	82	77	80
Japan	-	-	-	-	-	-	-	-	-	-	355	626	1,285	1,987[5]	1,565[5]	1,822	2,218	1,488	1,336	956	133	294	733	1,097	1,013	1,010	1,092	287	227	140
New Zealand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	109	154	156	243	244	236
Norway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	171	276	527	618	595	674	662	761	724	729
South Africa, Rep. of	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	76	86	87	167	165	170
Sweden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	30	56	93	78	82	82	83	84	77
Switzerland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	67	92	85	79	83	86	79	73	81
United States[6]	2,030[3]	1,681[3]	1,883[3]	1,909[3]	1,800[3]	1,821[3]	1,559[3]	856	674	510	3,514	5,059	6,300*	6,662[5]	5,135[5]	6,650	7,030	4,720	3,725	3,320	1,827	2,499	3,607	4,109	3,519	4,557	4,654	4,099	3,500	3,037
Centrally-planned economies, of which:	5,040	6,578	7,822	11,300	10,490	10,976	11,050	11,194	11,315	11,497	1,844	2,999	3,436	4,347	4,404	4,849	4,888	5,964	6,220	6,443	911	1,470	2,153	2,568	2,736	2,986	3,045	2,945	2,948	3,056
China, P.R.	350	400	400	800	1,000	1,500	1,700	2,000	2,100	2,200	137	174	270*	450*	500	700	700	800	950	1,000	70	9	135	280	300	360	350	425	425	480
Czechoslovakia	-	-	-	-	-	-	-	-	-	-	-	-	70[5]	95[5]	100*[5]	90*[5]	90*[5]	75*	75*	70*	25*	25*	43	48	43	37	38	32	32	33
Germany, D.R.	-	-	-	-	-	-	-	-	-	-	-	-	55[5]	47[5]	48[5]	41[5]	43[5]	43	47	47*	40*	50*	60*	60*	60*	60*	60*	60*	58*	60*	61*
Hungary	1,190	1,478	2,022	2,600	2,890	2,976	2,950	2,994	2,815	3,022	219	308	441[5]	655[5]	756[5]	818[5]	805[5]	846	798	826	50	58	66	68	70	72	74	74	74	74
North Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	8	10	10	10
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	47	99	102	103	97	95	46	47	48
USSR[7]	3,500	4,700	5,400	7,900	6,600	6,500	6,400	6,200	6,400	6,275	1,397	2,396	2,600	3,100	3,000	3,200	3,250	4,200	4,350	4,500	700	1,200	1,750	2,000	2,150	2,350	2,420	2,300	2,300	2,350
Other	-	-	-	-	-	-	-	-	-	-	91	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

[1] Weight of bauxite as published by official sources, not taking into account variations in composition and moisture content.

[2] Based on calcined alumina for period 1974-1977 and alumina hydrate for period beginning 1978.

[3] Dry weight.

[4] Includes production from Sarawak.

[5] Calcined alumina

[6] Includes Virgin Islands in the figures for alumina production.

[7] Includes other raw materials containing aluminium (alunite and nepheline, with 16-18 per cent, and 25-30 per cent respectively) as well as bauxite with 25-55 per cent Al_2O_3 content.

* = Estimates

Source: Metallstatistiks, 1960-1970, 1965-1975, 1970-1980, 1973-1983, 1976-1986; Metallgesellschaft AG
National Statistics for alumina production in 1960 and 1965

TABLE 3

World Consumption of Primary Aluminium, 1960-1986

	In thousands of metric tons										As a percentage of world consumption									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	6,166	6,648	10,027	13,767	11,457	15,993	15,301	15,936	16,163	16,602	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries, of which:	156	349	664	950	1,137	1,648	1,702	2,036	2,177	2,424	3.7	5.2	6.6	6.9	9.9	10.3	11.1	12.8	13.5	14.6
Argentina	n.a.	36	51	73	73	81	60	101	81	121	n.a.	0.5	0.5	0.5	0.6	0.5	0.4	0.6	0.5	0.7
Bahrain	n.a.	n.a.	3	–	5	11	20	18	22	47	n.a.	n.a.	–	–	–	0.1	0.1	0.1	0.1	0.3
Brazil	33	52	84	158	217	266	296	295	348	424	0.8	0.8	0.8	1.1	1.9	1.7	1.9	1.9	2.2	2.6
Cameroon	n.a.	n.a.	11	17	26	27	30	25	30	28	n.a.	n.a.	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Colombia	n.a.	6	9	12	9	16	14	18	22	25	n.a.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Egypt*	n.a.	5	5	13	15	35	40	70	63	58	n.a.	0.1	–	0.1	0.1	0.2	0.3	0.4	0.4	0.3
Hong Kong	n.a.	8	15	15	22	25	30	13	27	21	n.a.	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1
India	25	71	162	148	145	212	234	310	298	310	0.6	1.1	1.6	1.1	1.3	1.3	1.5	1.9	1.8	1.9
Indonesia	n.a.	n.a.	–	3	7	15	14	35*	41	51	n.a.	n.a.	–	–	0.1	0.1	0.1	0.2*	0.3	0.3
Iraq*	n.a.	n.a.	–	–	3	3	15	10	10	17	n.a.	n.a.	–	–	–	–	0.1	0.1	0.1	0.1
Iran	n.a.	3	6	18	27	23	23	67	56	89	n.a.	–	–	0.1	0.2	0.1	0.1	0.4	0.3	0.5
Israel	n.a.	6	12	13	10	19	20	13	14	15*	n.a.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1*
Korea	n.a.	4	15	36	36	94	68	129	146	197	n.a.	0.1	0.1	0.3	0.3	0.6	0.4	0.8	0.9	1.2
Lebanon	n.a.	2	8	10*	19	15	16	6	9	12*	n.a.	–	0.1	0.1*	0.2	0.1	0.1	–	0.1	0.1*
Malaysia	n.a.	1	–	5	6	24	16	32	22	33	n.a.	–	–	–	–	0.1	0.1	0.2	0.1	0.2
Mexico	11	20	33	56	51	100	106	71	76	52	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.4	0.5	0.3
Philippines	n.a.	4	11	15	8	28	17	7	5	6	n.a.	0.1	0.1	0.1	0.1	0.2	0.1	–	–	–
Peru	n.a.	n.a.	3*	6	7	3	5	3	4	5*	n.a.	n.a.	–*	–	0.1	–	–	–	–	–
Romania*	n.a.	31	40	90	120	152	147	122	126	120	n.a.	0.5	0.4	0.6	1.0	0.9	1.0	0.8	0.8	0.7
Taiwan	n.a.	14	34	45	46	109	92	97	148	150	n.a.	0.2	0.3	0.3	0.4	0.7	0.6	0.6	0.9	0.9
Thailand	n.a.	2	8	15	18	43	45	49	45	57*	n.a.	–	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3*
Turkey	n.a.	6	14	37	60	45	45	106	113	98	n.a.	0.1	0.1	0.3	0.5	0.3	0.3	0.7	0.7	0.6
Venezuela	n.a.	3	10	21	39	74	96	130	139	135	n.a.	–	0.1	0.1	0.3	0.5	0.6	0.8	0.9	0.8
Yugoslavia	41	57	100	108	128	164	168	208	210	205	1.0	0.9	1.0	0.8	1.1	1.0	1.1	1.3	1.3	1.2
Other*	46	18	31	37	41	65	85	101	122	148	1.1	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.8	0.9
Developed countries, of which:	3,081	4,939	7,311	10,329	7,601	11,134	10,435	10,700	10,656	10,731	74.0	74.3	72.9	75.0	66.3	69.6	68.2	67.1	65.9	64.6
Australia	39[1]	67	124	146	132	220	228	265	284	294	0.9[1]	1.0	1.2	1.1	1.1	1.4	1.5	1.7	1.8	1.8
Austria	37	42	75	87	84	112	102[2]	127	128	129	0.9	0.6	0.7	0.6	0.7	0.7	0.7[2]	0.8	0.8	0.8
Canada	102	182	220	301	286	340	329[2]	336	344	354	2.4	2.7	2.2	2.2	2.5	2.1	2.1[2]	2.1	2.1	2.1
EEC	1,085	1,337	2,168	2,676	2,289	3,221	3,243	3,279	3,263	3,464	26.0	20.1	21.6	19.4	20.0	20.1	21.2	20.6	20.2	20.9
Belgium-Luxembourg	63	115	175	219	178	242	233	289	268	273	1.5	1.7	1.7	1.6	1.5	1.5	1.5	1.8	1.7	1.6
Denmark	6	7	9	3	5	11	15	21	22	32	0.1	0.1	0.1	–	–	0.1	0.1	0.1	0.1	0.2
France	213	248	413	450	399	596	601	579	586	593	5.1	3.7	4.1	3.3	3.5	3.7	3.9	3.6	3.6	3.6
Germany, F.R.	313	387	670	856	704	1,068	1,042	1,152	1,161	1,187	7.5	5.8	6.7	6.2	6.1	6.7	6.8	7.2	7.2	7.1
Greece	n.a.	9	29	37	39	77	86	94	88	84	n.a.	0.1	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.5
Ireland	n.a.	8	5	3	3	5	3	2	2	2	n.a.	0.1	–	–	–	–	–	–	–	–
Italy	99	128	279	336	270	448	458	448	470	510	2.4	1.9	2.8	2.4	2.4	2.8	3.0	2.8	2.9	3.1
Netherlands	14	19	53	94	77	100	106	108	89	123	0.3	0.3	0.5	0.7	0.7	0.6	0.7	0.7	0.6	0.7
Portugal	n.a.	1	2	4	4	21	27	25	32	39	n.a.	–	–	–	–	0.1	0.2	0.2	0.2	0.2
Spain	20	64	129	186	217	235	263	191	195	232	0.3	1.0	1.3	1.3	1.9	1.5	1.7	1.2	1.2	1.4
United Kingdom	357	351	404	488	393	418	409	370	350	389	8.6	5.3	4.0	3.5	3.4	2.6	2.7	2.3	2.2	2.3
Finland	3	8	19	18	19	27	25	17	17	18	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1
Japan	151	298	911	1,612	1,171	1,803	1,639	1,767	1,818	1,850	3.6	4.5	9.1	11.7	10.2	11.3	10.7	11.1	11.2	11.1
New Zealand	n.a.	9	13	29	16	27	25	29	35	30	n.a.	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2
Norway	18	18	73	108	93	98	118	127	129	123	0.4	0.3	0.7	0.8	0.8	0.6	0.8	0.8	0.8	0.7
South Africa, Rep. of	11	20	49	65	52	55	78	77	77	75	0.3	0.3	0.5	0.5	0.4	0.3	0.5	0.5	0.5	0.5
Sweden	38	44	79	100	110	103	76	87	94	95	0.9	0.7	0.8	0.7	1.0	0.6	0.5	0.5	0.6	0.6
Switzerland	48	62	92	111	84	111	118	135	143	156	1.1	0.9	0.9	0.8	0.7	0.7	0.8	0.8	0.9	0.9
United States	1,541	2,852	3,488	5,076	3,265	5,017	4,454	4,454	4,324	4,143	37.0	42.9	34.8	36.9	28.5	31.4	29.1	27.9	26.8	25.0
Other	8	–	–	–	–	–	–	–	–	–	0.2	–	–	–	–	–	–	–	–	–
Centrally-planned economies, of which:	929	1,360	2,051	2,487	2,719	3,211	3,163	3,200	3,330	3,447	22.3	20.5	20.5	18.1	23.7	20.1	20.7	20.1	20.6	20.8
Bulgaria	n.a.	4	16	35	38	48*	50	55	55	57	n.a.	0.1	0.2	0.2	0.3*	0.3	0.3	0.3	0.3	0.3
China*	90	95	225	370	440	580	550	630	700	750	2.2	1.4	2.2	2.7	3.8	3.6	3.6	4.0	4.3	4.5
Czechoslovakia	35*	51*	107	140	136	125	131	122	112	120*	0.8*	0.8*	1.1	1.0	1.2	0.8	0.9	0.8	0.7	0.7*
Germany, D.R.*	75	140	155	180	200	220	220	218	230	227	1.8	2.1	1.5	1.3	1.7	1.4	1.5	1.4	1.4	1.4
Hungary	40	39	92	137	166	166	166	193	200	215	1.0	0.6	0.9	1.0	1.4	1.0	1.1	1.2	1.2	1.3
Poland	40	58	120	134	138	170	158	134	130	135	1.0	0.9	1.2	1.0	1.2	1.1	1.0	0.8	0.8	0.8
USSR*	632	971	1,330	1,480	1,580	1,865	1,850	1,800	1,850	1,885	15.2	14.6	13.3	10.7	13.8	11.7	12.1	11.3	11.4	11.4
Other*	17	2	6	11	21	37	38	48	53	58	0.4	–	–	0.1	0.2	0.2	0.2	0.3	0.3	0.3

[1] Australia and Oceania.

[2] Probably includes secondary aluminium.

* – Estimates

Source: Metallstatistik, 1960-1970, 1965-1975, 1970-1980, 1973-1983 and 1976-1986; Metallgesellschaft AG.

TABLE 4

DIRECTION OF TRADE BY MAIN EXPORTERS, 1986
('000 metric tons)

Bauxite (gross weight)			Alumina (gross weight)			Aluminium		
Main exporters	Volume	%	Main exporters	Volume	%	Main exporters	Volume	%
Guinea[1]*	11,437	100.0	Australia[1]	7,667	100.0	Canada	1,164	100.0
to:			to:			to:		
EEC	4,690	41.0	United States	3,051	39.8	United States	857	73.6
United States	3,356	29.3	Canada	502	6.5	Japan	102	8.8
USSR	2,950	25.8	Norway	451	5.9	Korea, Rep.of	28	2.4
Canada	315	2.8	EEC	344	4.5	Hong Kong	23	2.0
Other	126	1.1	Switzerland	125	1.6	Turkey	22	1.9
			Other	3,194	41.7	EEC	21	1.8
Australia[2]	4,032	100.0				Sweden	20	1.7
to:			Jamaica[1]*	1,425	100.0	Taiwan	20	1.7
EEC	2,039	50.6	to:			Other	71	6.1
Japan	1,354	33.6	Canada	618	43.4			
United States	593	14.7	EEC	506	35.5	Norway[4]	647	100.0
Other	46	1.1	United States	140	9.8	to:		
			Norway	130	9.1	EEC	569	87.9
Jamaica[1]*	3,338	100.0	Sweden	31	2.2	Sweden	25	3.9
to:						Switzerland	21	3.2
United States	2,517	75.4				Austria	14	2.2
USSR	821	24.6	EEC	1,024	100.0	Other	18	2.8
			to:					
			Norway	224	21.9	Australia[4]	579	100.0
Brazil[1]*	3,054	100.0	Austria	176	17.2	to:		
to:			Canada	88	8.6	Japan	291	50.3
Canada	1,162	38.0	Sweden	74	7.2	Korea, Rep.of	70	12.1
EEC	213	7.0	Yugoslavia	69	6.7	China, P.R.	65	11.2
United States	100	3.3	Poland	65	6.3	Taiwan	59	10.2
Other	1,579	51.7	USSR	50	4.9	United States	25	4.3
			Switzerland	31	3.0	Thailand	25	4.3
Sierra Leone[1]*	1,109	100.0	United States	29	2.8	Other	44	7.6
to:			Other	218	20.2			
EEC	868	78.3				USSR*[2]	359	100.0
Canada	241	21.7	Suriname[1]*	1,009	100.0	to:		
			to:			Hungary	190	52.9
			Norway	469	46.5	Japan	65	18.1
Guyana[1]*	1,019	100.0	EEC	299	29.6	EEC	36	10.0
to:			United States	216	21.4	Yugoslavia	33	9.2
United States	287	28.2	Sweden	25	2.5	Norway	9	2.5
Canada	237	23.2				Turkey	8	2.2
EEC	227	22.3				Other	18	5.0
USSR	222	21.8	Yugoslavia	561	100.0			
Other	46	4.5	to:			United States	208	100.0
			USSR	534	95.2	to:		
EEC	849	100.0	Romania	15	2.7	Japan	131	63.0
to:			Czechoslovakia	10	1.8	Canada	30	14.4
USSR	398	46.9	Norway	2	0.3	Taiwan	14	6.7
Romania	350	41.2				Korea, Rep.of	11	5.3
Yugoslavia	36	4.2				Mexico	7	3.4
Canada	34	4.0	United States	475	100.0	Other	15	7.2
Other	31	3.6	to:					
			Canada	261	55.0			
Yugoslavia	765	100.0	Mexico	83	17.5			
to:			Ghana	77	16.2			
USSR	387	50.6	Japan	21	4.4			
Romania	226	29.5	Other	33	6.9			
Czechoslovakia	106	13.9						
EEC	42	5.5	Japan[3]	384	100.0			
Other	4	0.5	to:					
			Canada	243	63.3			
Indonesia[1]*	597	100.0	Korea, Rep.of	46	12.0			
to:			Indonesia	25	6.5			
Japan	597	100.0	Thailand	14	3.6			
			Other	56	14.6			
China, P.R.[1]*	521	100.0	Hungary[1]*	365	100.0			
to:			to:					
EEC	243	46.6	USSR	350	95.9			
United States	181	34.7	Other	15	4.1			
Other	97	18.6						
			Venezuela[1]*	333	100.0			
			to:					
			Norway	135	40.5			
			Sweden	62	18.6			
			United States	55	16.5			
			Canada	46	13.8			
			EEC	35	10.5			

[1] Based on statistics of importing countries.

[2] Imports by various countries of destination.

[3] Including aluminium hydroxide.

[4] Including alloys.

*Estimates

Source: Metallstatistik 1976-1986, Metallgesellschaft AG, Frankfurt 1987
Nimexe Statistics, 1986

TABLE 5

DIRECTION OF TRADE BY MAIN IMPORTERS, 1986
('000 metric tons)

Bauxite (gross weight)			Alumina (gross weight)			Aluminium		
Main importers	Volume	%	Main importers	Volume	%	Main importers	Volume	%
EEC	8,660	100.0	United States[3]	3,585	100.0	United States[4]	1,347	100.0
from:			from:			from:		
Guinea	4,690	54.2	Australia	3,051	85.1	Canada	869	64.5
Australia	2,039	23.5	Suriname	216	6.0	Brazil	116	8.6
Sierra Leone	867	10.0	Jamaica	140	3.9	Venezuela	69	5.1
China, P.R.	243	2.8	Venezuela	56	1.6	United Arab Emirates	69	5.1
Guyana	227	2.6	Trinidad	37	1.0	Ghana	65	4.8
Brazil	213	2.5	Canada	30	0.8	South Africa	32	2.4
Ghana	201	2.3	Brazil	20	0.6	Australia	32	2.4
Other	180	2.1	Other	35	1.0	Argentina	31	2.3
						Bahrain	18	1.3
United States[1]	7,158	100.0	Canada	1,724	100.0	Other	46	3.4
from:			from:					
Guinea	3,356	46.9	Jamaica	618	35.8	Japan[5]	1,076	100.0
Jamaica	2,517	35.2	Australia	502	29.1	from:		
Australia	593	8.3	Japan	269	15.6	Australia	275	25.6
Guyana	287	4.0	United States	237	13.7	New Zealand	162	15.0
China, P.R.	181	2.5	EEC	52	3.0	Indonesia	158	14.7
Suriname	123	1.7	Venezuela	46	2.7	Venezuela	155	14.4
Other	101	1.4				United States	130	12.1
						Canada	66	6.1
USSR[2]*	4,777	100.0	EEC	1,563	100.0	Bahrain	43	4.0
from:			from:			Brazil	35	3.3
Guinea	2,950	61.8	Jamaica	506	32.4	Other	52	4.8
Jamaica	820	17.2	Australia	344	22.0			
EEC	398	8.3	Suriname	299	19.1			
Yugoslavia	387	8.1	Guinea	268	17.1	EEC	924	100.0
Guyana	222	4.6	Venezuela	35	2.2	from:		
			Austria	23	1.5	Norway	350	37.8
			West Indies	16	1.0	Romania	78	8.4
Japan	2,307	100.0	Other	72	4.6	Yugoslavia	77	8.3
from:						Egypt	67	7.3
Australia	1,354	58.7	Norway	1,459	100.0	Iceland	55	6.0
Indonesia	597	25.9	from:			Cameroon	48	5.2
Malaysia	238	10.3	Suriname	469	32.1	USSR	37	4.0
China, P.R.	44	1.9	Australia	451	30.9	Brazil	33	3.6
Guyana	34	1.5	EEC	230	15.8	Suriname	32	3.5
Other	40	1.7	Venezuela	135	9.3	Ghana	29	3.1
			Jamaica	130	8.9	Other	118	12.8
Canada	2,113	100.0	Other	44	3.0			
from:								
Brazil	1,162	55.0	USSR[2]*	1,005	100.0			
Guinea	315	14.9	from:					
Sierra Leone	241	11.4	Yugoslavia	534	53.1			
Guyana	237	11.2	Hungary	350	34.8			
United States	48	2.3	India	64	6.4			
China, P.R.	31	1.5	EEC	48	4.8			
Other	79	3.7	Other	9	0.9			

[1] "Imports for consumption", up to 1981 "General imports" (including deliveries to warehouses).

[2] Exports by various countries of origin.

[3] "Imports for consumption", up to 1981 "General imports" (including deliveries to warehouses). Including aluminium hydroxide.

[4] "Imports for consumption", up to 1982 "General imports" (including deliveries to warehouses) and also including aluminium alloys.

[5] Including aluminium containing less than 99 per cent AL.

*Estimates

Source: Metallstatistik 1976-1986, Metallgesellschaft AG, Frankfurt 1987
Nimexe Statistics, 1986

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN ALUMINIUM AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Export embargo	Non-ferrous metals	Pakistan
	Alumina	Australia
Export restriction	Mineral ores (CCCN ex 26.01)	Canada
Export suspension	Aluminium waste and acrap (CCCN ex 76.01)	Brazil, Colombia
Prior export permission	Aluminium ores and concentrates containing precious metals (CCCN 26.01.04.00)	Colombia
Export quotas	Certain minerals and metals	India
	Aluminium waste and scrap (CCCN ex 76.01)	EEC
Export licence	Ash and residues (CCCN 26.03)	Tunisia
	Ferro-alloys (CCCN 73.02)	Tunisia
	Unwrought aluminium; aluminium waste and scrap (CCC 76.01)	Tunisia
	Aluminium scrap (CCCN ex 76.01)	Yugoslavia
	Wrought bars, rods, angles, shapes and sections of aluminium, aluminium wire (CCCN 76.02)	Tunisia
	Wrought plates, sheets and strips of aluminium (CCCN 76.03)	Tunisia
	Gauze, cloth, grill etc. (CCCN 76.16.B)	Tunisia
	Other articles of aluminium (CCCN ex 76.16.D)	Tunisia
Export licence or administrative documentation requirement	Metallic ores, slag and ash	Brazil
	Non-ferrous metal waste and scrap	Austria, Dominican Rep.
	Aluminium waste and scrap (CCCN ex 76.01)	Korea,Rep.of, New Zealand, Norway
Liberal export licensing	Ash and residues of certain minerals (CCCN 26.03)	Finland
Export taxes	Minerals	Canada
	Bauxite (CCCN ex 26.01)	Guyana, Haiti
	Ashes and residues containing metal or metallic compounds, of aluminium (CCCN ex 26.03)	Switzerland
	Tooling waste and scrap of aluminium (CCCN ex 76.01)	Switzerland
	Aluminium scrap (CCCN ex 76.01)	Argentina
II. On Imports		
Prohibition or embargo	Ash and residues (CCCN 26.03)	Argentina, Colombia
	Aluminium chloride (CCCN 28.30.00.08)	Argentina
	Aluminium sulphate (CCCN 28.38.02.01.05)	Argentina
	Sections for structures of aluminium (CCCN ex 76.02)	Malta
	Tubes of aluminium (CCCN ex 76.06)	Senegal

Non-tariff measures	Product	Country(ies) maintaining the measure
	Tube fittings sheated (CCCN ex 76.07)	Senegal
	Structures, sections for structures (CCCN ex 76.08)	Malta
	Aluminium doors, windows and frames therefore (CCCN ex 76.08)	Pakistan
	Reservoirs, tanks and similar containers of aluminium, except those for machinery (CCCN 76.09.B)	Pakistan
	Articles of a kind commonly used for domestic purposes, sanitary ware for indoor use and parts of such articles (CCCN 76.15)	Argentina
	Aluminium domestic utensils (CCCN ex 76.15) and certain aluminium manufactures	Egypt
	Room heaters; gas cookers and water heaters (CCCN 76.15.A.01)	Pakistan
	Other domestic articles and parts therefore (CCCN 76.15.A.03)	Pakistan
	Indoor sanitary ware, excluding sinks and wash basins (CCCN 76.15.B.02)	Pakistan
	Articles of a kind commonly used, for domestic purposes and sanitary ware for indoor use (CCCN 76.15.01.00, 76.15.02.00)	Peru
	Hairpins, curling, etc. (CCCN 76.16B)	Pakistan
	Insulated cables, flexible cords, electric wire (except those made of steel, nickel-chrome or nickeline) and other similar products (CCCN ex 85.23.00)	Argentina
Restriction	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
	Aluminium sulphate (CCCN 28.38.930)	Indonesia
	Ferro-alloys (CCCN 73.02)	EEC (Spain)
	Conduct cables for T.V. aerials (CCCN 85.23.12)	EEC (Greece)
Bilateral quota	Tubes and pipes of aluminium (CCCN 76.06.B)	Japan
	Insulated electric wire, cable, etc. (CCCN 85.23)	Japan
Global quota	Cupric and aluminium sulphates (CCCN 28.38.007)	New Zealand
	Aluminium products under CCCN headings 76.02, 76.06, 76.07, 76.09, 76.10, 76.12	New Zealand
	Wrought plates of aluminium, unworked, as approved by the Minister (CCCN 76.03.011)	New Zealand
	Aluminium foil, as approved by the Minister (CCCN 76.04.001)	New Zealand
	Structures and parts of structures of aluminium, excluding fittings (CCCN ex 76.08)	New Zealand
	Articles used for domestic purposes, of aluminium, excluding pressure cookers and parts (CCCN ex 76.15)	New Zealand
	Fittings for ships, etc. (CCCN 76.16.041); rings, tags for animals (CCCN 76.16.051); other articles of aluminium not elsewhere specified, other than spools, reels and similar supports for films etc., (CCCN ex 76.16.059)	New Zealand

Non-tariff measures	Product	Country(ies) maintaining the measure
	Co-axial wire and cable (CCCN 85.23.001); cable bars, strips, and the like, other than those approved by the Minister (CCCN 85.23.019, 85.23.029)	New Zealand
Quantitative restrictions	Ores and concentrates (CCCN 26.01)	Sri Lanka
	Aluminium ores and concentrates (CCCN 26.01.6)	Yugoslavia
	Aluminium oxide and hydroxide (CCCN ex 28.20)	EEC (Italy, Spain)[1], Yugoslavia
	Aluminium sulphate (CCCN 28.38.27) and aluminium ammonium bisulphate (CCCN 28.38.47)	EEC (Italy)[1]
	Aluminium sulphate (CCCN 28.38.47)	EEC (Fed.Rep. of Germany)[1 2]
	Ferro-alloys (CCCN 73.02)	EEC (Fed.Rep. of Germany, Italy, Spain)[1]
	Ferro-aluminium etc., (CCCN 73.02.20)	Yugoslavia
	Articles of metal (CCCN ex 76)	Senegal
	Unwrought aluminium (CCCN 76.01-11)	EEC (France, Fed.Rep.Germany, Italy)[1,2]
	Primary and secondary aluminium alloys (CCCn 76.01.21, 76.01.29)	EEC (France, Fed.Rep.of Germany[3], Italy)[1]
	Aluminium products under CCCN headings 76.02, 76.03, 76.04, 76.06, 76.07, 76.12	EEC (Italy)[1,3]
	Aluminium products under CCCN headings 76.02, 76.03, 76.04, 76.05, 76.06, 76.08, 76.09, 76.11	Yugoslavia
	Aluminium powders and flakes (CCCN 76.05)	Sri Lanka
	Stranded wire, cables, cordages, etc. (CCCN 76.12)	EEC (Denmark[1],Italy[1,3])
	Utensils over 10 lt (CCCN ex 76.15.1b) of aluminium	Yugoslavia
	Bolts and nuts	EEC (Denmark, Fed.Rep. of Germany)[4]
	Insulated electric wire, cables, etc. (CCCN 85.23)	EEC (Denmark, Spain, Greece, Italy)[1]
Automatic Licensing	Wrought bars, rods, angles, shapes (CCCN 76.02)	Sweden
Discretionary licensing	Aluminium ores and concentrates (CCC 26.01.04.00)	Colombia, Tunisia
	Ash and residues (CCCN 26.03)	Turkey, Tunisia
	Aluminium hydroxide gel aluminium hydroxide complying with United States of America Pharmacopoeia, 16th edition (CCCN 28.20.02.)	Argentina

Non-tariff measures	Product	Country(ies) maintaining the measure
	Aluminium oxide (CCCN 28.20.0100) and artificial corundum (CCCN 28.20.0300)	Colombia
	Aluminium oxide (CCCN 28.20.10) and hydroxide (CCCN 28.20.20)	Turkey
	Aluminium sulphate (CCCN ex 28.38)	Tunisia
	Fluorides, complex fluorine salts (CCCN 28.29)	Colombia
	Ferro-alloys (CCCN 73.02)	Ghana
	Some ferro-alloys, including ferro-aluminium (CCCN ex 73.02)	Colombia
	Aluminium and articles thereof, excluding waste and scrap (CCCN Chapter 76, except for ex 76.01)	Ghana
	Aluminium and articles thereof under CCCN headings 76.01, 76.02, 76.03, 76.04, 76.06, 76.08, 76.15	Turkey
	Aluminium waste and scrap (CCCN 76.01.02.00)	Colombia
	Aluminium products under CCCN headings 76.02, 76.05, 76.06, 76.07, 76.08, 76.09, 76.11, 76.16	Colombia, Tunisia
	Wrought bars, rods, angles, shapes etc. (CCCN 76.02.001, 76.02,009)	New Zealand
	Aluminium wire (incl. electric) (CCCN ex 76.02)	Nigeria
	Wrought plates of aluminium (CCCN 76.03.99)	Israel, Tunisia
	Unworked plates, sheets and strips as may be approved by the Minister (CCCN 76.03.11); wrought plates of aluminium worked or unworked, excluding those as approved by the Minister (CCCN 76.03.001, 76.03.019)	New Zealand
	Aluminium products under CCCN headings 76.04, 76.08	Nigeria
	Other aluminium foil (CCCN 76.04.9900)	Israel
	Aluminium foil as may be approved by the Minister (CCCN 76.04.001)	New Zealand
	Aluminium foil excluding as approved by the Minister (CCCN 76.04.009)	New Zealand
	Aluminium products under CCCN headings 76.06, 76.07, 76.09, 76.12	New Zealand
	Structures and parts of structures (other than exempt goods) (CCCN 76.08.000.01.C, 76.09.000.11.D. 76.08.000.29.G)	New Zealand
	Containers for the transport of milk (CCCN 76.10.01.01); collapsible tubular containers (CCCN 76.10.89.01); containers of a volume of 335cm^3 (12 ounces) (CCCN 76.10.89.09)	Colombia
	Stranded wire, cables, etc., of aluminium wire (CCCN 76.12)	Israel
	Other stranded wire and cables (CCCN ex 76.12)	Nigeria
	Articles of a kind commonly used for domestic purposes, sanitary ware, etc. of aluminium (CCCN 76.15.000.08.A, 76.15.000.71.A, 76.15.000.19.G.	New Zealand
	Aluminium consoles with connectors and cabling for lighting and low or high-tension voltage electricity production, whether or not with piping or connections and cabling for internal communications systems, for use in hospital services (CCCN 76.16.00.00.06)	Argentina

Non-tariff measures	Product	Country(ies) maintaining the measure
	Nails, bolts, nuts and screws (CCCN 76.16.01.00); gauze, cloth, grill, netting and reinforcing fabric (CCCN 76.16.03.00); chains and parts thereof (CCCN 76.16.89.02); staples for closing bags intended for food-stuffs (CCCN 76.16.89.05)	Colombia
	Fittings for ships, boats and other vessels (CCCN 76.16.041), nose rings for animals etc., (CCCN 76.16.051); nails, tacks, staples and the like (CCCN 76.16.059.01.B); bolts and bolt ends, nuts, screws (CCCN 76.16.059.11.K); washers, spring washers (CCCN 76.16.059.21.G); turnbuckles, thimbles, foreye-splices, boat hooks (CCCN 76.16.059.31.D); (CCCN 76.16.059.31.D); other bobbins, spools, caps,etc (CCCN 76.16.059.71.C); boxes specially designed to house electrical equipment (CCCN 76.16.059.81.L); other articles of aluminium (CCCN 76.16.059.99.C)	New Zealand
	Nails, bolts, bolts ends, nuts, screw studs (CCCN ex 76.16)	Nigeria
	Co-axial cables (CCCN 85.23.00.01.01, 85.23.00.01.02)	Argentina
	Wire with 2 or 3 multiple-strand conductors each not over 1.5 mm^2 (CCCN 85.23.3000); with 16 conductors or more, single-stranded (CCCN 85.23.4000); containing insulation paper (CCCN 85.23.9910), other (CCCN 85.23.9929); insulated electronic wire, cable not elsewhere specified (CCCN 85.23.9990)	Israel
	Co-axial wire and cable (CCCN 85.23.001); insulated electric wire, cables, bars, etc., other than as may be approved by the Minister (CCCN 85.23.019, 85.23.022, 85.23.028, 85.23.029)	New Zealand
	Insulated wire and cables (CCCN ex 85.23)	Nigeria, Tunisia
Licensing	Aluminium and articles thereof (CCCN Chapter 76)	Peru
	Aluminium hollow ware; metal structural forms	Jamaica
	Louvre-blades for own use (CCCN ex 76.08)	Ghana
	Electric power insulated cables, etc. (CCCN 85.23.01, 85.23.02); other electric wires and cables (CCCN 85.23.21-29); other cables (CCCN 85.23.90)	Côte d'Ivoire
Liberal licensing	Aluminium hydroxide (CCCN ex 28.20)	South Africa
	Chlorides and oxychlorides; bromides and oxybromides; iodides and oxyiodides (CCCN 28.30)	South Africa
	Sulphates and persulphates (CCCN 28.38)	South Africa
	Salts of metallic acids, except sodium dichromate and permanganate (CCCN ex 28.47)	South Africa
	Ferro-alloys (CCCN 73.02)	South Africa
	Unwrought aluminium unalloyed (CCCN 76.01.0100); die-casting alloy (CCCN 76.01.0201); other unwrought alloyes (CCCN 76.01.0299)	Korea, Rep.of
	Aluminium and articles thereof under CCCN headings 76.01, 76.02, 76.03, 76.04, 76.06, 76.07, 76.08, 76.09, 76.10, 76.11, 76.12	South Africa
	Aluminium foil with under 99.99% aluminium, excluding paper-backed foil for pharmaceutical packing, etched foil (CCCN ex 76.04.0200)	Korea, Rep.of
	Articles used for domestic purposes, of aluminium exlcuding kitchen and household ware (not coated with precious metal) (CCCN ex 76.15)	South Africa

Non-tariff measures	Product	Country(ies) maintaining the measure
	Other articles of aluminium exluding bodkins and and needles, including crochet hooks; corset busks and similar supports (CCCN ex 76.16)	South Africa
	(Synthetic rubber insulated cable: cap tire; for automobiles; for elevators; for ships; heat-resistent (CCCN ex 85.23.0101)	Korea,Rep.of
	Artificial plastic insulated cable: IV OW, DV; for signaller,controller; cap tire; for automobiles; elevators; fire-proof (CCCN ex 85.23.0102)	Korea,Rep.of
	Electric wire for winding: enamel, heatproof; enamel cold resistant; magnet wire (CCCN ex 85.23.0202)	Korea,Rep. of
	Metal-armoured cable: under 200V (copper,aluminium cores) (CCCN ex 85.23.0301-0302)	Korea,Rep.of
	Other electric power cable under 200V copper, aluminium cores(CCCN ex 85.23.0399)	Korea,Rep.of
	Communication cable; telephone (TIV and TOV); jelly-filled; insulated with polyethylene, PVC.pef, communication paper; co-axial with metal coverings; co-axial uncovered	Korea, Rep. of
	Insulated wire and cables exluding automobile wiring harnesses (CCCN ex 85.23)	South Africa
Licence suspended	Aluminium hydroxide (CCCN 28.20.0200)	Brazil
	Aluminium fluoride (CCCN 28.29.0100;28.29.0200)	Brazil
	Aluminium products under CCCN headings 76.08, 76.09, 76.10, 76.11, 76.15	Brazil
	Aluminium articles under CCCN heading 76.16 except CCCN tariff items CCCN 76.16.0100 tacks,nails,cramps, hooks, hook nails,etc) CCCN 76.16.0200 (bolts, nuts, washers, screw hooks, rivets, etc), and CCCN ex 76.16.99.00 (other)	Brazil
	Insulated electric wire, cable, etc. (CCCN.85.23)	Brazil
Prior import deposits	Ash and residues (CCCN 26.03)	EEC(Greece)
	Aluminium sulphate (CCCN 28.38A)	EEC(Greece)
	Aluminium and articles thereof (CCCN Chapter 76)	EEC(Greece)
	Insulated cables, electric wire etc. except for ignition wiring sets and wiring sets for use in civil aircraft (CCCN 85.23B)	EEC(Greece)
Various internal taxes: (i) high revenue taxes	Stranded wire, cables, ropes, cordage of aluminium (CCCN ex 76.12)	EEC(member state unspecified)[5]
	Insulated electric wire (CCCN ex 85.23)	EEC(member state unspecified)[5]
(ii) turnover tax	Ores and concentrates (CCCN 26.01)	EEC (Italy)
(iii) transactions tax	Household utensils of aluminium (CCCN ex 76.15)	Niger
Technical standards and regulations	Chemical products (CCCN Chapter 28)	Switzerland
	Aluminium redraw rod for electrical purposes (CCCN ex 76.02)	Philippines
	Aluminium tubes (CCCN ex 76.06)	Japan
	Aluminium plumbing pipe fittings (CCCN ex 76.07)	United States
	Rigid portable tanks (of greater than 450 litres capacity) for the transport of hazardous liquids (CCCN ex 76.09)	New Zealand

Non-tariff measures	Product	Country(ies) maintaining the measure
	Aluminium cans for canning (CCCN ex 76.10)	Japan
	High pressure gas facilities (CCCN ex 76.11)	Japan
	Aluminium containers for liquefied petroleum gases (CCCN 76.11)	Finland, Sweden
	Articles of a kind commonly used for domestic purposes, sanitary ware, etc. (CCCN 76.15)	Finland
	Domestic pressure pans and pots (CCCN ex 76.15)	Japan
	Electrical equipment (CCCN Chapter 85)	Japan, United States
	RF cables (CCCN ex 85.23)	India
	Insulated wires (CCCN ex 85.23)	Japan
	Electrical wiring (CCCN ex 85.23)	New Zealand
	Thermoplastic insultated electric wires and cables (CCCN ex 85.23)	Philippines
Technical certification systems	Aluminium butt-welding pipe fittings (CCCN ex 76.07)	Japan
	Components for car parking lot in metal; metal roof components for terrace; metal balcony and balcony components for dwelling (CCCN ex 76.08)	Japan
	Coatings combined with anodic oxidation and organic finishing that are processed on surfaces of aluminium structures and articles (CCCN 76.08,76.15)	Japan
	Household pressure pot and pressure cooking pot (CCCN ex 76.15)	Japan
	Canteens of aluminium (CCCN ex 76.15)	Japan
	Contact conductors with insulating covers (CCCN ex 85.23)	Japan
	Plastic-insulated cables for high voltage installations (CCCN ex 85.23)	Sweden
Domestic price measure	Metallic ores and concentrates (CCCN ex 26.01)	Brazil
Surcharges port taxes etc.	Metallic ores and concentrates (CCCN ex 26.01)	Austria
State-trading	Metallic ores and concentrates (CCCN ex 26.01)	India, Tunisia

[1]Restriction on imports originating in state-trading countries

[2]Restrictions on imports except German Democratic Republic

[3]Restriction suspended in respect to Romania

[4]Non-tariff measure notified by Czechoslovakia

[5]Non-tariff measure notified by Romania

Source: GATT: - NTM/INV/I-V; NTM/INV/I-V/Add.1-10; NTM/W/7/Rev.2/Add.1,2; NTM/W/12/Add.8,9
- BOP/257; BOP/258
- L/5542/Add.4-8; L/5640/Add.29/Suppl.1; (L/5687/Add.1,2); L/5770/Add.3; (L/5770/Add.3/Corr.1; L/5803/Add.1; L/5870/Add.1; L/5889; 1/5869(Add.1; L/5945; L/5950
- SCM/66/Add.4/Rev.1
- TBT/W/68/Rev.1

Table 7

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING ALUMINIUM AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.06	2606.00	Aluminium ores and concentrates.	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
	2620.40	- Containing mainly aluminium	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
26.21	2621.00	Other slag and ash, including seaweed ash (kelp).	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
28.18		Aluminium oxide (including artificial corundum); aluminium hydroxide.											
	2818.10	- Artificial corundum	2% U	1% B, 6% B 4)	Free B	5.2% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.70/100kg B	Free, 0.7¢/kg
	2818.20	- Other aluminium oxide	2% U	Free B	Free B	5.7% B	Free B	4.9% B	Free B	Free B	Free B	SwF0.10/100kg B	Free
	2818.30	- Aluminium hydroxide	2% U	Free B	Free B	5.7% B 7) A:5.5%	Free B	4.7% B A:3.9%	Free B	Free B	Free B	SwF0.10/100kg B	Free
28.25		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.											
	2825.10	- Hydrazine and hydroxylamine and their inorganic salts	2% U	Free B	Free B	6% B	Free B	5.8% B 9) A:4.6%	Free B	7.7% B	3.8% B A:Free	SwF1.50/100kg B	3.7%
	2825.90	- Other	2% U	Free B	Free B	11% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B	SwF1.50/100kg B	3.7%
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.32	-- Of aluminium	2% U	Free B	10% B	6.6% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.50/100kg B	Free
		- Chloride oxides and chloride hydroxides:											
	2827.49	-- Other	2% U	Free B	12.5% B	5.3% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.50/100kg B	7%
		- Bromides and bromide oxides:											
	2827.59	-- Other	2% U	Free B	Free B	6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B	SwF2.50/100kg B	3.6%
	2827.60	- Iodides and iodide oxides	2% U	Free B	12.5% B	6.9% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.50/100kg B	4.2%
28.29		Chlorates and perchlorates; bromates and perbromates; iodates and periodates.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8% B, 6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B, 5) 5.8% B	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.90	- Other	2% U	Free B	Free B	6.9% B	Free B	3.7% B A:3%	Free B	Free B	Free B	SwF0.50/100kg B	3%

28.33		Sulphates; alums; peroxosulphates (persulphates).												
		- Other sulphates:												
	2833.22	-- Of aluminium	15% U *	24% B	Free B, 9.2% B	9% B	Free B	14.9% B IA:3.9%		18% U *	Free B	13.5% B	SwF0.90/100kg B	Free
	2833.30	- Alums	2% U	Free B	8.5% B	6% B, 10% B	Free B	14.9% B IA:3.9%		Free B	Free B	13.2% B	SwF0.60/100kg B	11.6%
	2833.40	- Peroxosulphates (persulphates)	2% U	Free B	9.2% B	6.3% B	Free B	14.9% B IA:3.9%		Free B	Free B	Free B	SwF2.40/100kg B	3.1%
28.34		Nitrites; nitrates.												
	2834.10	- Nitrites	2% U	Free B	8% B	7% B	Free B	14.9% B IA:3.9%	9)	Free B	Free B	15.8% B IA:Free	SwF1.10/100kg B	3.1%
		- Nitrates:												
	2834.29	-- Other	2% U	Free B	12.5% B	3% B	Free B	14.9% B IA:3.9%		Free B	Free B	Free B	SwF1.50/100kg B	3.5%
28.36		Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate.												
		- Other:												
	2836.99	-- Other	2% U	Free B	12.5% B	6.6% B, 8% B	1% B IA:Free	14.9% B IA:3.9%		Free B	Free B	Free B	SwF2.40/100kg B	3.7%
28.37		Cyanides, cyanide oxides and complex cyanides.												
		- Cyanides and cyanide oxides:												
	2837.19	--Other	Free U	Free B	Free B	6.2% B	Free B	14.9% B IA:3.9%	9)	Free B	Free B	Free B	SwF0.75/100kg B	Free
	2837.20	- Complex cyanides	Free U	Free B	Free B	12% B	Free B	14.9% B IA:3.9%	9)	Free B	Free B	Free B	SwF0.75/100kg B	1.7%
28.38	2838.00	Fulminates, cyanates and thiocyanates.	2% U	Free B	12.5% B	6.3% B	Free B	14.9% B IA:3.9%		Free B	Free B	Free B	SwF1.50/100kg B	3.1%
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.												
	2842.10	- Double or complex silicates	2% U	Free B	Free B	6% B	Free B	14.9% B IA:3.9%		Free B	Free B	Free B	SwF2.00/100kg B	3.7%
	2842.90	- Other	2% U	Free B	Free B	6.2% B	Free B	14.9% B IA:3.9%		Free B	Free B	Free B	SwF2.00/100kg B	3.3%
76.01		Unwrought aluminium.												
	7601.10	- Aluminium, not alloyed	2% U	S 140/kg B	Free B, 10.3% B, 11.98 ¢/kg B	6% B	Free B	1% B		Free U, 9.5% U *	Free B	Free B	SwF22.00/100kg B	Free,2.6%
	7601.20	- Aluminium alloys	2% U	S 140/kg B	Free B, 10.3% B, 11.98 ¢/kg B	6% B	Free B	1% B		Free U, 9.5% U *	Free B	Free B	SwF22.00/100kg B	Free-2.6%
76.02	7602.00	Aluminium waste and scrap.	2% U	S 49/kg B IA:Free	Free B	Free-3.2% B	Free B	Free B		Free U	Free B	Free B	SwF22.00/100kg B	Free
76.03		Aluminium powders and flakes.												
	7603.10	- Powders of non-lamellar structure	15% U	8% B	9.2% B	5.3% B	Free B	15.8% B IA:4.6%		Free U	Free B	Free B	SwF45.00/100kg B	5.7%
	7603.20	- Powders of lamellar structure; flakes	15% U	8% B	9.2% B, 10.3% B	6.3% B	Free B	15.8% B IA:4.6%		Free U	Free B	Free B, 13.8% B	SwF45.00/100kg B	3.9%
76.04		Aluminium bars, rods and profiles.												
	7604.10	- Of aluminium, not alloyed	15% U	11% B	12.1%-10.3% B	10% B	11.4% B	11.5% B IA:9.2%		25.5% U *	15.8% B	12.5% B	SwF42.00/100kg B	12.6%-5%
		- Of aluminium alloys:												
	7604.21	-- Hollow profiles	15% U	15% B	8% B, 10.3% B	10% B	11.4% B	12.8% B IA:10.2%		25.5% U *	15.8% B	12.5% B	SwF42.00/100kg B	11.5%
	7604.29	-- Other	15% U	11% B	12.1%-10.3% B	10% B	11.4% B	11.5% B IA:9.2%		22% U *; 45% B IA:25.5% *	15.8% B	12.5% B	SwF42.00/100kg B	12.6%-5%

76.05		Aluminium wire.												
		- Of aluminium, not alloyed												
	7605.11	-- Of which the maximum cross-sectional dimension exceeds 7 mm	15% U	11% B	2.1%-10.3% B	10% B	1.4% B	11.5% B A:9.2%	22% U *	Free B	2.5% B	SwF41.00/100kg B	2.6%
	7605.19	-- Other	15% U	11% B	8% B, 10.2% B	10% B	1.4% B	12.8% B A:10.2%	22% U *	Free B	2.5% B	SwF41.00/100kg B	4.2%
		- Of aluminium alloys:												
	7605.21	-- Of which the maximum cross-sectional dimension exceeds 7 mm	15% U	11% B	2.1%-10.3% B	10% B	1.4% B	11.5% B A:9.2%	22% U *	Free B	2.5% B	SwF41.00/100kg B	2.6%
	7605.29	-- Other	15% U	11% B	8% B, 10.2% B	10% B	1.4% B	12.8% B A:10.2%	22% U *	Free B	2.5% B	SwF41.00/100kg B	4.2%
76.06		Aluminium plates, sheets and strip, of a thickness exceeding 0.2 mm.												
		- Rectangular (including square):												
	7606.11	-- Of aluminium, not alloyed	15% U	11% B; 15% B A:13%	2.1% B, 10.3% B	10% B	1.7% B	3% B	25.5% U *, 29% U *	Free E, 6) 9% U	2.5% B	SwF33.00/100kg B	2.7%,3%
	7606.12	-- Of aluminium alloys:	15% U	11% B; 15% B A:13%	Free-10.3% B	10% B	1.7% B	Free B,3% B	25.5% U *, 29% U *	Free B, 6) 9% U	2.5% B	SwF33.00/100kg B	3%,6.5%
		- Other:												
	7606.91	-- Of aluminium, not alloyed	15% U	15% B	2.1% B, 10.3% B	10% B	1.7% B	3% B	25.5% U *, 29% U *	9% U	2.5% B	SwF33.00/100kg B	2.7%,3%
	7606.92	-- Of aluminium alloys:	15% U	15% B	2.1% B, 10.3% B	10% B	1.7% B	Free B,3% B	25.5% U *, 29% U *	9% U	2.5% B	SwF33.00/100kg B	3%,6.5%
76.07		Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2 mm.												
		- Not backed:												
	7607.11	-- Rolled but not further worked	20% U	7% B, 11% B	Free-9.2% B	10% B	6.2% B	12.8% B A:10.2%	22.5% U *	Kr1.00/kg B	2.5% B	SwF58.00/100kg B	3%-5.8%
	7607.19	-- Other	20% U	11% B	9.2%-12.2% B	10% B	6.2% B	12.8% B A:10.2%	22.5% U *	Kr1.00/kg B	2.5% B	SwF77.00/100kg B	3%-5.7%
	7607.20	- Backed	20% U	11% B	9.2%-12.2% B	10% B	6.2% B	12.8% B A:10.2%	22.5% U *	Kr1.00/kg B	2.5% B	SwF58.00/100kg B, SwF77.00/100kg B	Free,3.7%
76.08		Aluminium tubes and pipes.												
	7608.10	- Of aluminium, not alloyed	15% U	15% B 6)	8.1% B 6)	Free B, 10% B	1.4% B	12.8% B A:10.2%	25.5% U *	5.8% B	2.5% B 6)	SwF43.00/100kg B	5.7%
	7608.20	- Of aluminium alloys	15% U	15% B 6)	8.1% B 6)	Free B, 10% B	1.4% B	12.8% B A:10.2%	25.5% U *	5.8% B	2.5% B 6)	SwF43.00/100kg B	5.7%
76.09	7609.00	Aluminium tube or pipe fittings (for example, couplings, elbows, sleeves).	20% U	8% B	10.3% B	7% B	1.4% B	15.8% B A:4.6%	Free U	6.2% B	3.2% B	SwF70.00/100kg B	5.7%
76.10		Aluminium structures (excluding prefabricated buildings of heading No. 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures.												
	7610.10	- Doors, windows and their frames and thresholds for doors	20% U	9% B	10.3% B	7% B	4.4% B	15.1% B A:4.1%	50% B A:28.5% *	Kr0.70/kg B	3.2% B	SwF48.00/100kg B	5.7%
	7610.90	- Other	20% U	9% B	10.3% B	7% B	4.4% B	15.1% B A:4.1%	50% B A:28.5% *	Kr0.70/kg B	3.2% B	SwF48.00/100kg B	5.7%
76.11	7611.00	Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment	20% U	9% B	Free B, 10.3% B	7% B	4.4% B	15.8% B A:4.6%	15% B; 50% B A:25.5% *	Kr0.72/kg B	3.2% B	SwF32.00/100kg B	2.6%

76.12		Aluminium casks, drums, cans, boxes and similar containers (including rigid or collapsible tubular containers), for any material (other than compressed or liquefied gas), of a capacity not exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.												
	7612.10	- Collapsible tubular containers	20% U	9% B	10.3% B	7% B	3.6% B	5.8% B A:4.6%		50% B A:28.5% *		Kr1.12/kg B	3.8% B	SwF71.00/100kg B	2.4%
	7612.90	- Other	20% U	9% B	10.3% B	7% B	3.8% B	5.8% B A:4.6%	12)		12)	Kr1.12/kg B	3.2% B	SwF71.00/100kg B	Free,5.7%
76.13	7613.00	Aluminium containers for compressed or liquefied gas.	20% U	9% B	10.3% B	7% B	4.4% B	5.8% B A:4.6%		Free B		Kr1.01/kg B	3.2% B	SwF47.00/100kg B	5%
76.14		Stranded wire, cables, plaited bands and the like, of aluminium, not electrically insulated.													
	7614.10	- With steel core	15% U	8% B	10.2% B	7% B	3.8% B	7.9% B A:6.3%		25.5% U *		Kr0.16/kg B	2.5% B	SwF44.00/100kg B	4.9%
	7614.90	- Other	15% U	8% B	10.2% B	7% B	3.8% B	7.9% B A:6.3%		25.5% U *		Kr0.16/kg B	2.5% B	SwF44.00/100kg B	4.9%,5.7%
76.15		Table, kitchen or other household articles and parts thereof, of aluminium; pot scourers and scouring or polishing pads, gloves and the like, of aluminium; sanitary ware and parts thereof, of aluminium.													
	7615.10	- Table, kitchen or other household articles and parts thereof; pot scourers and scouring or polishing pads, gloves and the like	20% U	11% B	10.2% B	7% B	7.5% B	5.1% B A:4.1%	10)	50% B A:28.5% *		13% B	3.2% B	SwF63.00/100kg B	3.8%-5.7%
	7615.20	- Sanitary ware and parts thereof	20% U	11% B	10.2% B, 11.4% B	7% B	7.5% B	5.1% B A:4.1%	10)	28.5% U		13% B	3.2% B	SwF63.00/100kg B	3.8%
76.16		Other articles of aluminium.													
	7616.10	- Nails, tacks, staples (other than those of heading No. 83.05), screws, bolts, nuts, screw hooks, rivets, cotters, cotter-pins, washers and similar articles	20% U	8% B	10.3% B	7% B	4.1% B	5.1% B A:4.1%	11)	5% B; 50% B A:28.5% *		3.8% B	3.2% B	SwF87.00/100kg B, SwF92.00/100kg B	4.7%-6.3%
	7616.90	- Other	20% U	8% B	Free B, 10.3% B	7% B	4.1% B	5.1% B A:4.1%	11)	13)	14)	5% B	3.2% B	SwF47.00/100kg B, SwF87.00/100kg B	5.7%

B - Bound rate. U - Unbound rate. A - Applied rate.

1) Australian tariff rates indicate rates stated in the Combined Australian Customs Tariff Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
3) The Harmonised System comes into force 1st January 1989. The United States will present its Schedule based on the HS at a later stage.
4) 2818.10B: Temporary rate: Free.
5) Perchlorates: Bound at 5.8%.
6) In accordance with the Agreement on Trade in Civil Aircraft and under Customs control: -with fittings, suitable for conducting gases or liquids: Free.
7) For part of this item the rate of duty has been suspended or reduced.
8) - Of corrugated sheets: Free B.
9) These items are subject to the "Poisonous and Deleterious Substance Law".
10) These items are subject to the "Food Sanitation Law" (tableware etc.), and to Commodity tax.
11) Commodity tax.
12) 761290.01: 50% B, A:28.5% *;
761290.09: Free U;
761290.11: 50% B, A: 28.5% *;
761290.19: 5% B.
13) 761690.01: Free B;
761690.09: 5% B.
761690.11: 25.5% U *;
761690.19: 28.5% U *;
761690.21: Free B;
761690.29: 15%-50% B, A:28.5% *.
14) This item is subject to Article XXVIII Negotiations as a result of the introduction of the 1978 Tariff.

C O P P E R

Table 2

LD PRODUCTION OF COPPER, 1960-1986
i in thousand metric tons; regional and
ta as a percentage of world production)

World Smelter Production								World Production of Refined Copper (including copper from scrap)									
970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
320	7,291	7,277	7,733	7,675	8,077	8,211	8,261	4,998	6,058	7,592	8,544	8,177	9,181	9,286	9,539	9,730	9,846
4.0	30.9	32.3	34.1	35.3	38.3	39.9	38.9	17.9	18.9	19.9	19.4	22.4	23.4	24.4	27.3	28.4	28.5
-	-	-	-	-	0.7	1.1	1.4	-	-	0.2	0.3	0.3	0.3	0.4	0.9	1.2	1.5
1.2	8.1	9.9	12.3	12.4	13.6	13.2	13.6	4.5	4.8	6.1	4.9	6.5	8.5	8.7	9.2	9.1	9.6
0.1	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4
-	-						-	-	-	-	-	-	-	-	-	-	-
-	-	0.1	-	-	0.6	0.7	0.5	-	-	0.1	0.1	-	-	-	-	0.1	0.1
0.1	0.1	0.1	0.6	0.8	1.2	1.7	1.7	-	-	0.1	0.1	0.3	0.7	0.8	1.5	1.6	1.7
-	-						-	-	-	-	-	-	-	-	-	-	-
1.9	1.0	1.0	1.1	1.1	0.7	0.8	0.7	0.6	0.8	0.7	0.7	0.9	1.1	1.1	0.8	1.3	0.8
-	-						-	-	-	-	-	-	-	-	-	-	-
-	-						-	-	-	-	-	-	-	-	-	-	-
2.8	2.4	2.2	4.4	4.5	4.1	4.3	3.5	0.6	0.7	0.5	0.5	0.7	2.5	2.4	2.3	2.3	2.3
-	-	-	-	-	1.3	1.6	1.5	-	-	-	-	-	-	-	1.0	1.3	1.4
0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	n.a.	n.a	0.2*	0.1*	0.5*	0.7	0.7	0.5	0.4	0.5
0.3	0.3	0.4	0.3	0.2	0.4	0.4	0.4	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.5	0.7	0.8
0.3	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4	1.8	1.7	1.4	1.2	1.0	1.7	1.5	0.7	0.9	1.2	1.6	1.7	1.5	1.4	1.3	1.4	1.4
0.8	9.4	8.9	7.7	7.9	6.6	6.6	6.2	8.1	8.6	7.6	7.5	7.7	6.1	6.5	5.5	5.2	4.9
6.1	6.3	6.4	4.8	5.5	5.8	5.8	5.8	2.9	2.5	2.5	2.7	2.8	1.1	1.5	2.4	2.3	2.2
0.3	0.4	0.5*	0.4	0.3	0.3	0.3	0.4	-	0.2	0.4	0.6	0.6	0.1	0.1	0.2	0.2	0.2
0.1	0.1	0.1	0.2	0.2	0.8	0.8	0.7	0.1	-	0.1	0.1	0.1	0.2	0.2	0.7	0.9	0.7
7.2	49.4	45.8	43.3	41.4	39.0	37.0	37.3	66.1	64.4	61.5	59.2	54.8	53.5	52.4	48.5	47.5	47.6
1.8	2.2	2.5	2.1	2.3	2.2	2.1	2.1	1.6	1.5	1.9	2.1	2.4	1.9	2.0	2.1	2.0	1.9
-	-	-	-	-	-	-	-	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3
7.1	6.3	6.7	4.8	6.4	5.8	5.6	5.7	7.6	6.5	6.5	5.8	6.5	4.3	5.4	5.3	5.1	5.0
2.4	3.4	3.8	3.3	3.2	3.0	2.9	3.3	16.8	16.1	14.3	12.8	13.5	11.7	12.6	12.2	12.5	12.5
0.2	0.2	0.2	-	-	-	-	-	4.0*	4.9*	4.4	4.3	4.1	3.9	4.6	4.2	4.2	4.2
1.3	2.2	2.4	2.0	2.0	1.8	1.8	2.1	6.2	5.6	5.3	4.8	5.2	4.2	4.0	3.9	4.2	4.3
-	-						-	-	-	-	-	-	-	-	-	-	-
-	-						-	0.8	0.7	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4
-	-						-	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.5	0.7	0.7
-	-						-	-	-	-	-	-	-	-	-	-	-
0.1	-	-	-	-	-	-	-	0.4	0.1	-	-	-	-	-	-	-	-
0.9	1.0	1.1	1.3	1.2	1.1	1.1	1.3	0.8	0.8	1.0	1.1	1.6	1.5	1.7	1.6	1.6	1.6
-	-						-	4.3	3.8	2.7	2.0	1.9	1.3	1.7	1.4	1.3	1.3
0.5	0.7	0.6	0.7	0.6	1.0	0.8	1.0	0.6	0.5	0.4	0.5	0.4	0.5	0.4	0.6	0.6	0.7
7.9	11.2	10.2	11.0	11.6	10.2	9.8	10.0	5.0	6.0	9.3	11.1	10.0	10.7	10.9	9.8	9.6	9.6
0.5	0.5	0.4	0.3	0.4	0.4	0.5	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3
2.8	2.8	2.8	2.9	2.9	2.8	2.6	2.8	0.2	0.3	1.0	1.1	1.1	1.7	1.6	1.5	1.5	1.4
0.5	0.6	0.8	0.7	0.7	1.0	1.2	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.9
3.6	21.7	18.0	17.3	13.1	12.6	11.5	10.9	32.9	32.1	26.8	24.5	19.7	21.5	18.1	15.6	14.8	15.0
8.7	19.7	21.9	22.7	23.3	22.7	23.1	23.8	16.0	16.7	18.5	21.4	22.7	23.1	23.2	24.2	24.1	23.9
0.7	0.7	0.8*	0.7	0.8	0.9	0.8	0.9	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.8
1.6	1.6	2.1	2.2	2.3	2.7	3.0	3.6	2.0	1.8	1.6	2.3	2.8	3.2	3.2	3.3	3.3	3.3
1.1	2.1	3.2	4.4	4.8	4.5	4.6	4.5	0.4	0.6	0.9	1.8	3.0	3.7	3.8	3.9	4.0	3.9
4.6	14.5	15.1	14.6	14.7	13.9	13.9	14.0	12.2	12.7	14.2	15.2	14.9	14.2	14.0	14.4	14.4	14.2
0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	1.1	1.2	1.3	1.4	1.3	1.4	1.5	1.7	1.7	1.7

er sulphate.

	World Mine Production (cu.content)													
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	
World	4,242	4,963	6,403	7,511	7,182	7,766	7,737	8,262	8,394	8,513	4,287	4,964	6,320	7
Developing countries, of which:	1,859	2,068	2,473	2,998	3,041	3,381	3,491	3,820	3,886	3,936	1,689	1,876	2,152	2
Brazil	-	2	4	3	2	-	-	35	41	35	-	-	-	
Chile	532	585	692	735	828	1,063	1,106	1,291	1,356	1,400	505	558	647	
India	9	10	10	22	24	28	28	47	48	49	9	10	9	
Indonesia	-	-	-	38	63	60	59	83	89	96	-	-	-	
Iran*	3	1	1	2	4	3	1	43	40	50	-	1	1	
Korea, Rep. of	-	1	1	1	2	1	1	2	2	2	1	2	5	
Malaysia	-	-	-	-	4	24	27	29	30	28	-	-	-	
Mexico	60	55	61	81	78	107	175	189	179	182	52	47	60	
Morocco	n.a.	n.a.	3	4	5	8	8	21	33	19	-	-	-	
Papua New Guinea	-	-	-	183	173	171	147	164	175	179	-	-	-	
Peru	184	180	220	203	176	405	367	364	391	397	164	159	177	
Philippines	44	63	160	221	226	298	305	233	222	211	-	-	-	
Romania	n.a.	n.a.	32	40	35	29	28	30	30	28	n.a.	n.a.	32	
Turkey	27	34	31	28	34	31	21	31	30	31	26	26	19	
Uganda	15	16	18	14	8	-	-	-	-	-	15	17	17	
Yugoslavia 1	33	63	91	112	115	111	117	116	117	117	36	49	87	
Zambia	576	696	684	707	677	588	596	565	520	544	576	696	683	
Zaire 2	302	289	387	489	495	400	460	501	502	503	302	289	386	
Zimbabwe	14	18	30	52	48	30	27	23	21	18	-	17	21	
Other	60	55	48	63	44	24	18	53	60	46	3	5	8	
Developed countries of which:	1,745	2,072	2,734	3,081	2,712	2,783	2,603	2,561	2,592	2,643	1,964	2,261	2,983	3
Australia 3	111	92	158	220	219	238	244	236	260	249	72	75	112	
Austria	2	2	2	3	2	-	-	-	-	-	2	1	1	
Canada	399	461	610	824	734	636	716	722	739	768	361	385	450	
EEC: 4	33	24	35	66	68	42	49	67	63	56	104	130	155	
Belgium-Luxembourg*	-	-	-	-	-	-	-	-	-	-	15	18	10	
Germany, F.R. 5	2	1	1	1	2	1	1	1	1	1	62	75	84	
Greece	-	-	-	1	2	-	-	-	-	-	-	-	-	
France	1	-	-	-	-	-	-	-	-	-	-	-	-	
Italy 6	3	2	2	1	1	-	1	1	-	-	5	3	2	
Ireland	6	-	8	13	10	5	4	-	-	-	-	-	-	
Portugal	3	4	4	4	-	1	1	-	-	-	3	3	4	
Spain	18	18	20	46	52	35	42	64	61	54	13	31	55	
United Kingdom 7	-	-	-	-	1	-	-	1	1	1	6	-	-	
Finland	28	30	31	38	39	41	37	30	28	26	32	33	34	
Japan	89	107	120	91	85	59	53	43	43	35	188	260	501	
Norway	15	15	20	30	28	29	29	25	19	22	22	20	32	
South Africa(Inc.Namibia)	70	99	172	205	214	245	251	248	243	253	48	86	176	
Sweden	18	16	26	45	41	46	43	87	91	87	16	31	33	
United States	980	1,226	1,560	1,559	1,282	1,447	1,181	1,103	1,106	1,147	1,119	1,240	1,489	1
Centrally-planned econoay countries of which:	638	823	1,196	1,432	1,429	1,602	1,643	1,881	1,916	1,935	634	827	1,185	1
Bulgaria	11	30	40	48	55*	60	62	73	78	80	16	25	44	
China 8*	72	87	100	120	140	160	165	180	190	200	72	87	100	
Poland	11	15	83	152	230	340	343	431	432	435	17	27	69	
USSR*	500	650	925	1,060	950	970	980	1,020	1,030	1,030	500	650	925	1
Other	44	41	48	52	54	72	93	177	186	190	29	38	47	

[1] Since 1964 primary copper only, electrolytic refined copper and blister copper directly used for manufacturing copper sulpha

[2] Including leached cathodes for further refining elsewhere.

[3] 1960,1965 and 1970 mining production figures include Australia and Oceania.

[4] For comparative purposes total figures for the EEC include twelve member States for the whole period.

[5] Including production from leaching of ores.

Source: Metal Statistics 1960-70, 1965-75, 1970-80, 1976-86, Metallgesellschaft A.G.

Table 1

UCTION OF COPPER, 1960-1986
usands of metric tons)

Smelter Production						World Production of Refined Copper (including copper from scrap)									
1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
7,277	7,733	7,675	8,077	8,211	8,261	4,998	6,058	7,592	8,544	8,177	9,181	9,286	9,539	9,730	9,846
2,352	2,636	2,712	3,092	3,279	3,218	894	1,143	1,515	1,658	1,836	2,148	2,268	2,606	2,762	2,806
-	-	-	61	94	116	-	3	19	29	29	34	39	86	121	147
724	949	953	1,098	1,089	1,124	226	289	465	415	535	780	811	880	884	943
22	22	28	40	34	39	9	9	9	12	13	19	23	33	28	36
-					-	-	-	-	-	-	-	-	-	-	-
7	1	-	47	60	40	-	-	6	7	3	3	1	5	12	12
10	50	64	100	140	146	-	2	5	9	22	63	73	141	150	165
					-	-	-	-	-	-	-	-	-	-	-
71	88	88	61	66	60	28	46	54	62	70	101	103	84	123	82
					-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-
162	344	349	334	354	288	30	40	36	39	54	230	224	219	227	226
-	-	-	109	134	124	-	-	-	-	-	-	-	99	130	137
43	41	41	38	36	36	n.a.	n.a.	12*	10*	45*	66	65	45	42	45
27	22	16	32	34	36	12	6	14	9	15	22	19	51	61	75
8	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
124	109	94	85	137	127	36	56	89	138	138	138	131	128	135	140
648	595	609	532	544	514	403	522	581	639	629	564	607	522	510	487
463*	370	426	466	472	475	145	152	190	230	226	103	144	225	227	218
35	31	27	24	23	29	-	15	29	51	47	8	7	23	22	23
8	14	17	65	67	61	5	3	6	8	10	17	21	65	85	68
3,332	3,345	3,176	3,148	3,040	3,079	3,304	3,901	4,670	5,060	4,485	4,912	4,866	4,623	4,619	4,688
180	163	175	180	169	169	84	93	146	178	194	171	182	197	194	186
2	-	-	-	-	-	15	18	22	23	27	33	31	33	37	33
488	375	493	470	490	473	378	394	493	498	529	397	505	504	500	493
276	258	247	239	242	268	838	975	1,084	1,092	1,101	1,072	1,177	1,165	1,216	1,229
15	1	1	1	1	1	200*	300*	338	367	332	363	424	397	413	414
177	158	154	149	152	162	309	342	406	407	422	383	374	379	414	422
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	40	41	34	33	40	45	47	41	44	42
-	-	-	-	-	-	16	13	16	17	22	16	12	50	64	65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	1	1	1	1	18	4	4	3	3	3	4	5	4	5
83	99	91	88	88	104	42	47	80	94	130	140	154	156	152	155
-	-	-	-	-	-	213	228	206	171	152	122	161	137	125	126
46	55	47	78	69	85	31	31	34	43	36	43	41	57	59	64
742	854	889	821	802	828	248	366	705	951	819	984	1,014	935	936	943
26	27	34	37	38	35	17	15	26	26	20	22	27	30	31	30
203	225	226	227	212	229	12	16	75	91	92	152	148	148	146	143
56	52	57	82	95	84	38	51	51	60	57	62	56	64	65	88
1,313	1,336	1,008	1,014	940	908	1,643	1,942	2,034	2,098	1,610	1,976	1,686	1,490	1,435	1,479
1,593	1,752	1,787	1,837	1,902	1,964	800	1,014	1,407	1,826	1,856	2,121	2,152	2,305	2,349	2,352
60*	58	59	70	70	70	14	24	38	48	52	62	63	70	73	74
150	170	175	220	245	300	100	110	120	200	230	290	295	320	320	320
230	341	367	365	380	370	22	37	72	156	249	336	357	372	387	388
1,100	1,130	1,130	1,120	1,140	1,155	610	770	1,075	1,300	1,220	1,300	1,300	1,380	1,400	1,400
53	53	56	62	67	69	54	73	102	122	105	133	137	163	169	170

[6] Including copper content in copper precipitate.

[7] Production of "rough copper", mainly secondary copper

[8] 1960,1965 and 1970 mining production figures include China and Korea, D.P.R.

* Estimates

n.a. not available

(world
count

	World Mine Production (cu.content)											
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965
World	4,242	4,963	6,403	7,511	7,182	7,766	7,737	8,262	8,394	8,513	4,287	4,964
Developing countries, of which:	43.8	41.7	38.6	39.9	42.3	43.5	45.1	46.2	46.4	46.2	39.4	37.8
Brazil	-	-	0.1	-	-	-	-	0.4	0.5	0.4	-	-
Chile	12.5	11.8	10.8	9.8	11.5	13.7	14.3	15.6	16.2	16.5	11.8	11.2
India	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.2	0.2
Indonesia	-	-	-	0.5	0.9	0.8	0.8	1.0	1.1	1.1	-	-
Iran*	0.1	-	-	-	0.1	-	-	0.5	0.5	0.6	-	-
Korea, Rep. of	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	0.1	0.3	0.4	0.4	0.4	0.3	-	-
Mexico	1.4	1.1	0.9	1.1	1.1	1.4	2.3	2.3	2.1	2.1	1.2	0.9
Morocco	n.a.	n.a.	-	-	0.1	0.1	0.1	0.3	0.4	0.2	-	-
Papua New Guinea	-	-	-	2.4	2.4	2.2	1.9	2.0	2.1	2.1	-	-
Peru	4.3	3.6	3.4	2.7	2.4	5.2	4.6	4.4	4.6	4.6	3.8	3.2
Philippines	1.0	1.3	2.5	2.9	3.1	3.8	3.9	2.8	2.6	2.5	-	-
Romania	n.a.	n.a.	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	n.a.	n.a
Turkey	0.6	0.7	0.5	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.6	0.5
Uganda	0.3	0.3	0.3	0.2	0.1	-	-	-	-	-	0.3	0.3
Yugoslavia 1	0.8	1.3	1.4	1.5	1.6	1.4	1.5	1.4	1.4	1.4	0.8	1.0
Zambia	13.6	14.0	10.7	9.4	9.4	7.6	7.7	6.8	6.2	6.4	13.4	14.0
Zaire 2	7.1	5.8	6.0	6.5	6.9	5.1	6.0	6.1	6.0	5.9	7.0	5.8
Zimbabwe	0.3	0.4	0.5	0.7	0.7	0.4	0.3	0.3	0.3	0.2	-	0.3
Other	1.4	1.1	0.7	0.8	0.6	0.3	0.2	0.5	0.7	0.6	0.1	0.1
Developed countries, of which:	41.1	41.7	42.7	41.0	37.8	35.8	33.7	31.0	30.9	31.1	45.8	45.5
Australia 3	2.6	1.8	2.5	2.9	3.0	3.1	3.2	2.9	3.1	2.9	1.7	1.5
Austria	-	-	-	-	-	-	-	-	-	-	-	-
Canada	9.4	9.3	9.5	11.0	10.2	8.2	9.3	8.7	8.8	9.0	8.4	7.8
EEC: 4	0.8	0.5	0.5	0.9	0.9	0.5	0.6	0.8	0.7	0.6	2.4	2.6
Belgium-Luxembourg	-	-	-	-	-	-	-	-	-	-	0.3	0.4
Germany, F.R. 5	-	-	-	-	-	-	-	-	-	-	1.4	1.5
Greece	n.a.	n.a.	n.a.	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Italy 6	0.1	-	-	-	-	-	-	-	-	-	0.1	0.1
Ireland	0.1	-	0.1	0.2	0.1	0.1	-	-	-	-	-	-
Portugal	0.1	0.1	0.1	-	-	-	-	-	-	-	0.1	0.1
Spain	0.4	0.4	0.3	0.6	0.7	0.4	0.5	0.8	0.7	0.6	0.3	0.6
United Kingdom 7	-	-	-	-	-	-	-	-	-	-	0.1	-
Finland	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.7	0.7
Japan	2.1	2.2	1.9	1.2	1.2	0.8	0.7	0.5	0.5	0.4	4.4	5.2
Norway	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.5	0.4
South Africa (including Namibia)	1.6	2.0	2.7	2.7	3.0	3.1	3.2	3.0	2.9	3.0	1.1	1.7
Sweden	0.4	0.3	0.4	0.6	0.6	0.6	0.6	1.0	1.1	1.0	0.4	0.6
United States	23.1	24.7	24.4	20.8	17.8	18.6	15.3	13.4	13.1	13.5	26.1	25.0
Centrally-planned economy countries, of which:	15.0	16.6	18.7	19.1	19.9	20.6	21.2	22.8	22.7	22.7	14.8	16.7
Bulgaria	0.3	0.6	0.6	0.6	0.8*	0.8	0.8	0.9	0.9	0.9	0.4	0.5
China, 8*	1.7	1.7	1.6	1.6	1.9	2.1	2.1	2.2	2.2	2.4	1.7	1.7
Poland	0.3	0.3	1.3	2.0	3.2	4.4	4.4	5.2	5.2	5.1	0.4	0.5
USSR*	11.8	13.1	14.4	14.1	13.2	12.5	12.7	12.4	12.2	12.1	11.7	13.1
Other	1.0	0.8	0.7	0.7	0.7	0.9	1.2	2.1	2.2	2.2	0.7	0.8

[1]Since 1964 primary copper only electrolytic refined copper and blister copper, directly used for manufacturing

[2]Including leached cathodes for further refining elsewhere.

[3]1960, 1965 and 1970 mining production figures include Australia and Oceania.

[4]For comparative purposes total figures for the EEC include twelve member States for the whole period.

[5]Including production from leaching of ores.

[6]Including copper content in copper precipitate.

[7]Production of "rough copper", mainly secondary copper.

[8]1960, 1965 and 1970 mining production figures include China and Korea, D.P.R.

*Estimates
n.a. not available

urce: Metal Statistics 1960-70, 1965-75, 1973-83, 1976-86, Metallgesellschaft A.G.

Table 3

WORLD CONSUMPTION OF REFINED COPPER, 1960-1986

	Thousands of metric tons										Percentage of world consumption									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	4,756	6,193	7,291	8,740	7,444	9,849	9,364	9,855	9,858	10,083	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing Countries	225	332	400	566	611	979	1,017	1,122	1,202	1,360	4.7	5.4	5.5	6.5	8.2	9.9	10.9	11.4	12.2	13.5
of which:																				
Argentina	26	23	29	37	39	60	53	45	39	45	0.5	0.4	0.4	0.4	0.6	0.6	0.6	0.5	0.4	0.5
Brazil	30	31	74	125	155	229	246	189	196	255	0.6	0.5	1.0	1.4	2.1	2.3	2.6	1.9	2.0	2.5
Chile	13	73	21	34	27	49	43	35	26	36	0.3	1.2	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.4
India[1]	62	62	55	63	24	68	77	81	98	110	1.3	1.0	0.7	0.7	0.3	0.7	0.8	0.8	0.9	1.1
Korea, Rep. of	n.a.	2	10	14	35	85	64	188	207	262	n.a.	-	0.2	0.2	0.5	0.9	0.9	1.9	2.1	2.6
Mexico	20	36	54	66	71	101	117	95	120	75	0.4	0.6	0.7	0.8	1.0	1.0	1.3	1.0	1.2	0.7
Romania	n.a.	19	23	55	65	85	80	60	50	55	n.a.	0.3	0.3	0.6	0.9	0.9	0.9	0.6	0.5	0.6
Turkey	n.a.	6	14	14	16	22	33	55	76	77	n.a.	-	0.2	0.2	0.2	0.2	0.4	0.6	0.8	0.8
Yugoslavia	45	59	89	85	103	132	123	130	147	123	1.0	0.9	1.2	1.0	1.4	1.3	1.3	1.3	1.5	1.2
Other	29	21	31	73	76	148	161	244	243	322	0.6	0.3	0.4	0.8	1.0	1.5	1.7	2.5	2.5	3.2
Developed countries	3,619	4,714	5,459	6,415	4,877	6,638	6,153	6,525	6,371	6,419	76.1	76.1	74.9	73.4	65.5	67.4	65.7	66.2	64.6	63.6
of which:																				
Australia[2]	72	102	114	133	97	127	126	123	124	117	1.5	1.6	1.6	1.5	1.3	1.3	1.4	1.3	1.3	1.2
Austria	28	31	48	39	34	18	19	22	15	19	0.6	0.5	0.7	0.4	0.5	0.2	0.2	0.2	0.2	0.2
Canada	107	209	229	231	185	243	209	216	223	226	2.2	3.4	3.1	2.6	2.5	2.5	2.2	2.2	2.3	2.2
EEC[3]	1,681	1,885	2,174	2,336	2,110	2,504	2,491	2,394	2,360	2,420	35.3	30.4	29.8	26.7	28.3	25.4	26.6	24.3	23.9	24.0
Belgium-Luxembourg	92*	121	145	164	177	303	304	299	310	303	1.9	1.9	2.0	1.9	2.4	3.1	3.3	3.0	3.1	3.0
Denmark	4	4	5	6	4	3	2	1	-	-	0.1	0.1	-	0.1	0.1	-	-	-	-	-
Germany, Fed.Rep.	516	536	698	727	635	794	748	792	754	771	10.8	8.6	9.6	8.3	8.5	8.1	8.0	8.0	7.7	7.7
France	237	287	331	408	365	358	433	412	398	401	5.0	4.6	4.5	4.5	4.9	3.6	4.6	4.2	4.0	4.0
Greece	n.a.	6	12	18	18	24	35	34	39	39	n.a.	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4
Italy	185	192	274	295	290	352	388	348	362	394	3.9	3.1	3.8	3.4	3.9	3.6	4.1	3.5	3.7	3.9
Netherlands	32	32	39	38	37	26	18	22	18	24	0.7	0.5	0.5	0.4	0.5	0.3	0.2	0.2	0.2	0.2
Portugal	10*	10	11	11	13	11	18	19	16	18	n.a.	0.2	0.1	n.a.	0.2	0.1	0.2	0.2	0.2	0.2
Spain	45	47	105	140	120	132	136	114	116	130	0.9	0.8	1.4	1.6	1.4	1.4	1.5	1.2	1.2	1.3
United Kingdom	560	650	554	535	451	499	409	353	347	340	11.8	10.5	7.6	6.1	6.1	5.0	4.4	3.6	3.5	3.4
Finland	31	38	38	33	34	51	58	68	72	75	0.7	0.6	0.5	0.4	0.5	0.5	0.6	0.7	0.7	0.7
Japan	304	428	821	1,202	827	1,330	1,158	1,368	1,231	1,219	6.4	6.9	11.2	13.4	11.1	13.5	12.4	13.9	12.5	12.1
South Africa	26	33	35	63	65	69	90	84	70	77	0.5	0.5	0.5	0.7	0.9	0.7	1.0	0.9	0.7	0.8
Sweden	92	95	87	114	94	108	105	116	110	104	1.9	1.5	1.2	1.3	1.3	1.1	1.1	1.2	1.1	1.0
Switzerland	39	41	48	23	26	16	14	8	9	14	0.8	0.7	0.7	0.3	0.3	0.2	0.2	0.08	0.1	0.1
United States	1,225	1,844	1,860	2,221	1,399	2,164	1,868	2,107	2,144	2,137	25.8	29.8	25.5	18.8	21.9	19.9	20.0	21.4	21.8	21.2
Other	14	8	5	9	6	8	15	19	13	14	0.5	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1
Centrally-planned economies	912	1,147	1,433	1,759	1,956	2,232	2,194	2,208	2,285	2,304	19.2	18.5	19.6	20.1	26.3	22.7	23.4	22.4	23.2	22.9
of which:																				
China, Peoples Rep.*[4]	110	120	180	270	300	360	370	390	425	450	2.3	1.9	2.5	3.1	4.0	3.7	4.0	4.0	4.3	4.5
German Dem.Rep.*	65	82	90	102	112	120	123	122	131	120	1.4	1.3	1.2	1.2	1.5	1.2	1.3	1.2	1.3	1.2
Poland	n.a.	67	76	137	153	202	211	209	205	214	n.a.	1.1	1.0	1.6	2.1	2.1	2.3	2.1	2.1	2.1
USSR*	652	783	950	1,110	1,220	1,360	1,300	1,280	1,305	1,300	13.7	12.6	13.0	12.6	16.4	13.8	13.9	13.0	13.3	12.9
Other*	85	95	137	150	171	190	190	207	219	220	1.8	1.5	1.9	1.7	2.3	1.9	2.0	2.1	2.2	2.2

[1] Beginning 1975 new reporting basis.

[2] Includes Oceania for the years 1960, 1965 and 1970.

[3] For comparative purposes total figures for the EEC include twelve members States for the whole period.

[4] Includes Korea, D.P.R. for the years 1960, 1965 and 1970.

Source: Metal statistics, 1960-1970 and 1976-1986, published by Metallgesellschaft A.G.

Table 4

Direction of Trade by Main Suppliers, 1986
(in thousand metric tons)

Ores and Concentrates (Cu. content)			Blister and Anodes			Refined Copper		
Country	Volume	%	Country	Volume	%	Country	Volume	%
Canada	341.4	100.0	Zaire[3]	275.7	100.0	Chile	895.7	100.0
Japan	253.7	74.3	EEC	267.8	97.1	EEC	427.7	47.6
China, P.R.	30.4	8.9	Yugoslavia	7.9	2.9	United States	132.2	14.8
Norway	20.2	5.9				Brazil	87.0	9.7
Taiwan	14.8	4.3	Chile	199.4	100.0	Japan	53.4	6.0
Korea, Rep.of	14.0	4.1				China, P.R.	31.2	3.5
Other	8.3	2.4	EEC	75.5	37.9	Korea, Rep.of	25.1	2.8
			United States	29.5	14.8	Taiwan	17.1	1.9
Chile	270.7	100.0	Turkey	24.4	12.2	Other	122.0	13.6
			China, P.R.	15.4	7.7			
Japan	77.9	28.8	Yugoslavia	13.9	7.0	Zambia	466.3	100.0
EEC	52.9	19.5	Other	40.7	20.4			
Brazil	50.7	18.7				EEC	227.0	48.7
Korea, Rep.of	33.7	12.4	Peru	94.7	100.0	Japan	93.8	20.1
Canada	26.6	9.8				India	34.2	7.3
Other	28.9	10.7	EEC	53.6	56.6	Malaysia	11.6	2.5
			Japan	32.9	34.7	Indonesia	8.2	1.8
Papua New Guinea	178.8	100.0	China, P.R.	2.8	3.0	Finland	7.5	1.6
			United States	1.1	1.2	Sweden	7.0	1.5
Japan	77.4	43.3	Other	4.2	4.4	Other	77.0	16.5
EEC	73.8	41.3						
Korea, Rep.of	18.4	10.3				Canada[4]	304.8	100.0
China, P.R.	9.2	5.1						
						United States	193.6	63.5
United States	174.3	100.0				EEC	91.9	30.2
						Sweden	9.7	3.2
Japan	131.6	75.5				China, P.R.	3.3	1.1
Korea, Rep.of	14.1	8.1				Other	6.3	2.0
China, P.R.	12.5	7.2						
Canada	6.3	3.6				Zaire	222.8	100.0
Taiwan	5.0	2.9						
Other	4.8	2.7				EEC	145.0	63.4
						United States	26.0	11.4
Indonesia[1]	106.0	100.0				Canada	14.4	6.3
(gross weight)	298.6	100.0				India	14.2	6.2
						Brazil	7.4	3.2
Japan	275.2	92.2				Korea, Rep.of	5.2	2.3
Korea, Rep.of	13.9	4.6				Other	10.6	4.6
China, P.R.	9.4	3.1						
						Peru	193.0	100.0
Mexico[2]	98.6	100.0						
						EEC	98.0	50.8
EEC	65.6	66.5				United States	44.3	23.0
Japan	10.0	10.1				Japan	16.9	8.8
Other	23.0	23.3				Taiwan	7.9	4.1
						Brazil	7.0	3.6
Philippines	93.3	100.0				Other	18.9	9.8
Japan	75.2	80.6				Philippines	124.6	100.0
Korea, Rep.of	6.8	7.3						
China, P.R.	5.1	5.5				Japan	41.3	33.1
Taiwan	2.7	2.9				Taiwan	38.0	30.5
Other	3.5	3.7				Korea, Rep.of	28.8	23.1
						Other	16.5	13.2
						Poland	105.8	100.0
						EEC	100.3	94.8
						Other	5.5	5.2

[1] Gross weight figures; Foreign Trade Statistics of Indonesia.

[2] Estimates, based on statistics of importing countries.

[3] Includes leach anthodes.

[4] Includes some blister.

Source: World Metal Statistics, March 1988, published by the World Bureau of Metal Statistics
Indonesia, Foreign Trade Statistics, 1986

Table 5

Direction of Trade by Main Importers, 1986
(in thousand metric tons)

Ores and Concentrates (Cu. content)			Blister and Anodes			Refined Copper		
Country	Volume	%	Country	Volume	%	Country	Volume	%
Japan[1]	851.7	100.0	EEC	427.3	100.0	EEC	1,370.7	100.0
(gross weight)	3,036.9	100.0						
			Zaire	160.3	37.5	Chile	428.7	31.3
Canada	910.0	30.0	Chile	81.2	19.0	Zaire	214.8	15.7
United States	457.3	15.1	South Africa	55.3	12.9	Zambia	164.8	12.0
Chile	322.2	10.6	Peru	53.5	12.5	Poland	101.9	7.4
Philippines	306.9	10.1	Sweden	19.0	4.4	Peru	98.4	7.2
Papua New Guinea	277.8	9.1	Finland	15.2	3.6	Canada	95.8	7.0
Indonesia	256.5	8.4	Other	42.8	10.0	South Africa	66.9	4.9
Australia	180.5	5.9				Australia	39.8	2.9
Other	325.7	10.7	United States			Sweden	29.1	2.1
						Norway	20.5	1.5
EEC[1]	808.9	100.0	Chile	26.4	54.0	Tanzania	18.4	1.3
(gross weight)			Mexico	19.1	39.0	Austria	15.4	1.1
			Canada	3.3	6.7	USSR	15.2	1.1
Papua New Guinea	280.3	34.7				Other	61.4	4.5
Mexico	183.6	22.7	Korea, Rep.of	34.6	100.0			
Chile	118.3	14.6		15.7	100.0	United States	491.7	100.0
Morocco	59.2	7.3				Canada	199.6	40.6
Norway	48.9	6.0	Japan	15.7	100.0	Chile	149.2	30.3
Peru	41.4	5.1				Peru	53.6	10.9
Australia	24.5	3.0				Zaire	36.0	7.3
Yugoslavia	22.2	2.7				South Africa	10.1	2.0
Other	30.5	3.8				Other	13.5	2.7
Korea, Rep.of[1]	215.7	100.0				Japan	272.4	100.0
(gross weight)	389.1	100.0						
						Zambia	138.6	50.9
Papua New Guinea	70.1	18.0				Chile	46.3	17.0
Canada	67.7	17.4				Philippines	41.3	15.2
Chile	57.7	14.8				Peru	17.1	6.3
United States	41.8	10.7				Australia	11.2	4.1
Philippines	35.2	9.0				Other	17.9	6.6
India	29.0	7.5						
Austria	18.4	4.7				Brazil	107.8	100.0
Other	69.2	17.8						
						Chile	87.0	80.7
						Peru	7.0	6.5
						Other	13.8	12.8

[1] Gross weight figures

[2] Data indicated in the Statistical Yearbook are different from those given in the World Metal Statistics

Source: World Metal Statistics, March 1988, published by the World Bureau of Metal Statistics
Statistical Yearbook of Foreign Trade, 1986, published by the Office of Customs Administration, Republic of Korea
External Trade-Nimexe, 1986

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN COPPER AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Embargoes	Ash and residues containing metals or metallic compounds (CCCN 26.03)	Austria
	Copper matte, unwrought copper (CCCN ex 74.01)	Brazil, Colombia, Indonesia
	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Indonesia
	Copper and articles thereof (CCCN ex 74)	Canada, Pakistan
	Wrought bars, shapes and sections (CCCN ex 74.03)	Egypt
	Other articles used for domestic purposes (CCCN ex 74.18	Egypt
Export restraints	Copper matte; unwrought copper (CCCN ex 74.01) (CCCN ex 74.01)	Austria, Dominican Republic, EEC, Korea, Rep.of, Malaysia, New Zealand, Yugoslavia
	Metallic ores and concentrates (CCCN ex 26.01)	Brazil, New Zealand
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Brazil, Finland
Export quota	Ash and residues of copper and copper alloys (HS ex 26.20)	EEC
	Waste and scrap of copper and copper alloys (HS ex 74.04.00)	EEC
Export taxes	Metallic ores, slag and ash (CCCN ex 26)	Canada,Guyana,Haiti,Philippines
	Copper and articles thereof (CCCN ex 74)	Canada
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Switzerland
	Copper matte; unwrought copper (CCCN ex 74.01)	Switzerland
Non-automatic license	Copper ore (CCCN 26.01.04.00)	Korea, Rep.of
II. On imports		
Prohibition	Metallic ores and concentrates (CCCN ex 26.01)	Pakistan
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Pakistan
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	Malaysia
	Copper waste (CCCN ex 74.01)	Bangladesh
	Imitation gold and chemical gold (CCCN ex 74.01A)	Pakistan
	Fired ammunition cases (CCCN ex 74.01B)	Pakistan
	Super enamelled copper wire (CCCN 74.03)	Bangladesh
	Tubes and pipes of copper (CCCN ex 74.07)	Senegal
	Brass water fittings (CCCN ex 74.08)	Bangladesh
	Tube and pipe fittings of copper (CCCN ex 74.08)	Senegal
	Nails, tacks, bolts, nuts, etc. of copper (CCCN 74.15)	Bangladesh
	Other articles used for domestic purposes of copper (CCCN 74.18)	Bangladesh,
	Articles incorporating a dolphin (CCCN ex 74.18)	Malta
	Domestic articles and parts (CCCN 74.18A); Sanitary ware and parts (CCCN 74.18B	Pakistan, Peru
	Other articles of copper (CCCN 74.19)	Bangladesh
	Hairpins, curling pins (CCCN 74.19D): Doors, windowframes, etc. (CCCN 74.19F); Various stationary items (CCCN ex 74.19H01	Pakistan

Non-tariff measures	Product	Country(ies) maintaining the measure
	Articles incorporating a Dolphin, tabernacle doors (CCCN ex 74.19)	Malta
	Specified electric wires and cables (CCCN ex 85.23)	Bangladesh
Quota (Unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Yugoslavia
	Copper chloride (CCCN 28.30.1 C)	Yugoslavia
	Sulphates and persulphates of copper (CCCN 28.38.2f)	Yugoslavia
	Copper and articles thereof (CCCN ex 74)	Senegal
	Unrefined copper (CCCN 74.01.3); refined copper (CCCN 74.01.4)	Yugoslavia
	Rods of unalloyed copper (CCCN 74.03.2A) Wire of unalloyed copper (CCCN 74.03.4A)	Yugoslavia
Global quota	Sulphates and persulphates (CCCN ex 28.38)	New Zealand
	Tubes and pipes of copper (CCCN 74.07)	Spain
	Other bolts, etc. as approved (CCCN 74.15.041) Other bolts, etc. excluding as approved (CCCN 74.15.049)	New Zealand
	Springs of copper (CCCN 74.16)	New Zealand
	Cooking and heating apparatus (CCCN 74.17)	New Zealand
	Other articles used for domestic purposes of copper (CCCN 74.18)	New Zealand
	Rings, tags for animals (CCCN 74.19.001)	New Zealand
	Office desk equipment; fittings for ships, for fire hoses, etc. (CCCN ex 74.19.009)	New Zealand
	Insulated electric wire, cable (CCCN 85.23)	New Zealand
Bilateral quota	Wrought bars, shapes and sections of copper, copper wire (CCCN 74.03)	EEC (Portugal)
	Tubes and pipes of copper (CCCN 74.07)	EEC (Portugal)
Quantitative restriction, Licensing	Chlorides and oxychlorides (CCCN ex 28.30)	EEC (Italy)[1]
	Sulphates and persulphates (CCCN ex 28.38)	EEC (Germany, F.R., Italy)[1]
	Metallic ores, slag and ash (CCCN ex 26)	India
	Copper and articles thereof (CCCN ex 74)	India
	Other articles of copper (CCCN ex 74.19)	Malta
	Metallic ores, slag and ash (CCCN ex 26)	Switzerland
	Copper and articles thereof (CCCN ex 74)	Turkey
	Insulated electric wire, cable (CCCN 85.23)	EEC(Denmark,Greece,Italy,Spain)[1]
Licensing (method unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Malawi
	Sulphates and persulphates (CCCN ex 28.38)	Jamaica
	Carbonates and percarbonates (CCCN ex 28.42)	Malta
	Chromium plated (CCCN 74.08.A)	Pakistan
	Stranded wire, cables, etc. of copper wire (CCCN 74.10)	Jamaica
	Cooking and heating apparatus (CCCN 74.17)	Jamaica
	Gas cookers and water heaters (CCCN 74.17A); Room heaters (CCCN 74.17B); Liquid fuel stoves and burners (CCCN 74.17C)	Pakistan

Non-tariff measures	Product	Country(ies) maintaining the measure
	Domestic articles and parts (CCCN 74.18.100)	Jamaica
	Other articles of copper (CCCN 74.19.990)	Jamaica
	Candlesticks (excluding solid brass or bronze for altar) (CCCN ex 74.19)	Malta
	Other articles of copper (CCCN ex 74.19B)	Tunisia
	Insulated electric wire, cable (CCCN 85.23)	Ivory Coast, Jamaica
Liberal licensing	Metallic ores and concentrates (CCCN ex 26.01	Korea, Rep.of,Switzerland
	Carbonates and percarbonates (CCCN ex 28.42)	Korea, Rep.of
	Copper matte; unwrought copper (CCCN ex 74.01)	Korea, Rep.of
	Wrought plates, sheets and strips (CCCN 74.04)	Korea, Rep.of
	Copper foil (CCCN ex 74.05)	Korea, Rep.of
	Insulated electric wire, cable (CCCN ex 85.23)	Korea, Rep.of
Automatic licensing	Ash and residues containing metals or metallic compounds (CCCN 26.03)	South Africa
	Hydrazine, other inorganic bases and metallic oxides (CCCN 28.28)	South Africa
	Chlorides and oxychlorides (CCCN ex 28.30)	Switzerland
	Other chlorides (CCCN 28.30.50.90)	South Africa
	Sulphates and persulphates (CCCN ex 28.38)	Switzerland
	Copper sulphate (CCCN 28.38.15)	South Africa
	Nitrites and nitrates (CCCN ex 28.39)	South Africa, Switzerland
	Carbonates and percarbonates (CCCN ex 28.42)	South Africa, Switzerland
	Cyanides and complex cyanides (CCCN 28.43)	South Africa
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN 28.48)	South Africa, Switzerland
	Refined copper (CCCN 74.01.40)	South Africa
	Angles shapes and sections (CCCN 74.03.021)	New Zealand
	Wire (CCCN 74.03.039)	New Zealand
	Bars, rods (CCCN 74.03.10)	South Africa
	Angles shapes and sections (CCCN 74.03.20)	South Africa
	Wrought plates, sheets and strip of copper (CCCN 74.04)	South Africa
	Copper foil (CCCN 74.05)	South Africa
	Copper flakes (CCCN ex 74.06)	South Africa
	Tubes and pipes of copper (CCCN 74.07)	South Africa
	Tube and pipe fittings of copper (CCCN 74.08)	New Zealand, South Africa
	Stranded wire, cables, etc. of copper wire excluding insulated electric wire (CCCN ex 74.10) electric wires (CCCN ex 74.10)	New Zealand
	Other bolts, etc. excluding as approved (CCCN 74.15.049)	New Zealand
	Other articles used for domestic purposes, of copper (CCCN 74.18.90)	South Africa
	Other articles of copper (CCCN 74.19.90)	South Africa
	Insulated electric wire (CCCN ex 85.23)	New Zealand, South Africa

Non-tariff measures	Product	Country(ies) maintaining the measure
Non-automatic licensing	Metallic ores and concentrates (CCCN ex 26.01)	Argentina,Colombia,New Zealand, Japan, Peru, Tunisia
	Metallic ores, slag and ash (CCCN 26)	Sri Lanka, Zambia
	Ash and residues containing metals or metallic compounds (CCCN 26.03)	Argentina,Colombia,Sri Lanka, Turkey, Tunisia
	Copper oxide (CCCN ex 28.28)	India
	Other oxychlorides and hydroxychlorides (CCCN 28.30.00.02.99)	Argentina
	Other chlorides (CCCN 28.30.01.99)	Colombia
	Copper chloride and oxychloride (CCCN ex 28.30)	India
	Sulphides, polysulphides (CCCN ex 28.35)	Argentina,Colombia,India, Sri Lanka
	Other sulphates (CCCN 28.38.02.01.99)	Argentina
	Sulphates and persulphates (CCCN ex 28.38)	India
	Other alums (CCCN 28.38.02.02.00)	Argentina
	Copper sulphate (CCCN 28.38.01.10)	Colombia
	Other alums (CCCN 28.38.02.99)	Colombia, Tunisia
	Nitrites and nitrates (CCCN ex 28.39)	Bangladesh,India,Israel, Sri Lanka,Tunisia
	Other nitrates (CCCN 28.39.00.02.99)	Argentina
	Carbonates and percarbonates (CCCN ex 28.42)	Argentina,Colombia,India,Peru, Turkeyia,
	Copper cyanide (CCCN 28.43.00.01.03)	Argentina
	Cyanides and complex cyanides (CCCN ex 28.48)	India,Peru,Tunisia,Turkey
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	India, Turkey
	Copper scrap (CCCN ex 74.01)	Bangladesh
	Unwrought copper (CCCN ex 74.01)	Ghana
	Copper matte, unwrought copper and waste (CCCN 74.01)	Colombia,Nigeria,Peru,Turkey
	Master alloys (CCCN 74.02)	Ghana, Peru, Tunisia
	Copper wire (CCCN ex 74.03)	Bangladesh
	Wrought bars, shapes and sections of copper, copper wire (CCCN 74.03)	Colombia,Ghana,Nigeria,Peru, Tunisia,Turkey
	Brass and bronze electrodes, rods, wires; phosphor bronze and tambac brass wires (CCCN 74.03.009)	India
	Unalloyed copper bars and rods, excluding wire rod (CCCN 74.03.009)	New Zealand
	Other bars and rods (CCCN 74.03.019)	New Zealand
	Wrought plates, sheets and strip of copper (CCCN 74.04.01.00; 02.99; 03.99)	Colombia
	Wrought plates, sheets and strip of copper (CCCN 74.04)	Ghana, Peru, Tunisia
	Cold rolled, hard drawn phosphor bronze rods (CCCN ex 74.04)	India
	Wrought plates, sheets and strip of copper (CCCN 74.04.10; 21; 22; 31; 32; 41; 42; 49; 51; 52)	Turkey

Non-tariff measures	Product	Country(ies) maintaining the measure
	Copper foil (CCCN 74.05.00.01.03)	Argentina
	Copper foil (CCCN 74.05)	Ghana, Peru, Tunisia
	Copper clad laminated sheet (CCCN 74.05.01.01)	Korea, Rep.of
	Copper powders and flakes (CCCN 74.06)	Ghana, Peru
	Bronze powder, granules, flakes (CCCN ex 74.06)	India
	Tubes and pipes of copper (CCCN 74.07)	EEC(Spain),Ghana,Peru,Turkey
	Finned copper-nickel tubes (CCCN ex 74.07)	India
	Unalloyed copper, diam. 3mm-90mm (CCCN 74.07.009) (CCCN 74.07.009)	New Zealand
	Tube and pipe fittings of copper (CCCN 74.08)	Colombia,Ghana,Peru
	Stranded wire, cables etc. of copper wire (CCCN 74.10)	Colombia,Ghana,Nigeria,Peru
	Gauze cloth, etc. and expanded metal of copper (CCCN 74.11)	Colombia,Ghana,Peru
	Nails, tacks, bolts, nuts etc. of copper (CCCN 74.15)	Colombia,Ghana,Nigeria,Peru
	Springs of copper (CCCN 74.16)	Colombia,Ghana,Peru
	Cooking and heating apparatus of copper (CCCN 74.17)	Argentina,Colombia,Ghana,Peru
	Other articles used for domestic purposes, of copper (CCCN 74.18)	Argentina,Colombia,Ghana, Nigeria,Peru,Turkey
	Other articles of copper (CCCN 74.19)	Argentina,Colombia,Ghana, Nigeria.Peru,Turkey,Switzerland
	Insulated electric wire, cable (CCCN ex 85.23)	Argentina,Colombia,EEC(Spain), Ghana,India,Israel,Nigeria
License suspended	Copper powders and flakes (CCCN 74.06)	Brazil
	Stranded wire, cables etc. of of copper wire (CCCN 74.10)	Brazil
	Springs of copper (CCCN 74.16)	Brazil
	Cooking and heating apparatus of copper (CCCN 74.17)	Brazil
	Other articles used for domestic purposes excluding 74.18.01.99 (CCCN ex 74.18)	Brazil
	Other articles of copper (CCCN 74.19)	Brazil
	Insulated electric wire, cable (CCCN 85.23)	Brazil
Restriction (unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
	Round bars and rods of unalloyed copper (CCCN 74.03.211)	Indonesia
	Wrought bars, shapes and sections (CCCN 74.03)	EEC (Portugal)
	Tubes and pipes of copper (CCCN ex 74.07)	EEC (Portugal)
	Chlorides and oxychlorides (CCCN ex 28.30)	Indonesia
	Sulphates and persulphates (CCCN ex 28.30)	Indonesia
	Carbonates and percarbonates (CCCN ex 28.42)	Indonesia
	Insulated electric wire, cable (CCCN ex 85.23)	Indonesia
State trading	Metallic ores, slag and ash (CCCN ex 26); copper products (CCCN 74.01-08)	India
	Metallic ores and concentrates (CCCN ex 26.01)	Tunisia

Non-tariff measures	Product	Country(ies) maintaining the measure
Quantitative restrictions made effective through State trading operations	Sulphides, polysulphides (CCCN 28.35)	Sri Lanka
	Nitrites and nitrates (CCCN 28.39)	Sri Lanka
Border tax adjustments	Metallic ores and concentrates (CCCN 26.01)	EEC (Italy)
	Insulated electric wire, cable (CCCN ex 85.23)	EEC
Domestic price measure	Copper matte; unwrought copper (CCCN ex 74.01)	Japan, Korea, Rep.of
	Metallic ores and concentrates (CCCN 26.01)	Brazil
Surcharges, port taxes etc.	Metallic ores and concentrates (CCCN ex 26.01)	Austria
Marking/labelling/pakaging	Other articles used for domestic purposes (CCCN ex 74.18)	Canada
Consular/formalities/ documentation	Copper and articles thereof (CCCN ex 74) (CCCN ex 74)	USA
Testing/certification arrangements	Insulated electric wire, cable (CCCN ex 85.23) (CCCN ex 85.23)	EEC (Denmark)

[1]Quantitative restrictions applied on products originating in State-trading countries.

Source: NTM/W/17/Add.2; NTM/W/17/Add.2/Corr.1; NTM/W/6/Rev.4

Table 7

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING COPPER AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.03	2603.00	Copper ores and concentrates.	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	1.7¢/kg on Pb content
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
	2620.30	- Containing mainly copper	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	0.7¢/kg on Cu content + 0.7¢/kg on Pb content
26.21	2621.00	Other slag and ash, including seaweed ash (kelp).	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
28.25		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.											
	2825.10	- Hydrazine and hydroxylamine and their inorganic salts	2% U	Free B	Free B	6% B	Free B	5.8% B A: 4.6%	Free B	7.7% B	Free B 3.8% B A: Free	SwF1.50/100kg B	3.7%
	2825.50	- Copper oxides and hydroxides	2% U	Free B	Free B	3.2% B	Free B	7.2% B A: 5.8%	Free B	Free B	Free B	SwF1.50/100kg B	3.9%, 4.3%, 5%
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.39	-- Other	2% U	Free B	12.5% B	6% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.20/100kg B	4.9%-16%
		- Chloride oxides and chloride hydroxides:											
	2827.41	-- Of copper	15% U *	Free B	12.5% B	3.2% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF0.50/100kg B	3.9%
		- Bromides and bromide oxides:											
	2827.59	-- Other	2% U	Free B	Free B	6.9% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B	SwF2.50/100kg B	3.6%
	2827.60	- Iodides and iodide oxides	2% U	Free B	12.5% B	6.9% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.50/100kg B	Free
28.29		Chlorates and perchlorates; bromates and perbromates; iodates and periodates.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8%-6.9% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B, 5.8% B	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.90	- Other	2% U	Free B	Free B	6.9% B	Free B	3.7% B A: 3%	Free B	Free B	Free B	SwF0.50/100kg B	3%

28.33		Sulphates; alums; peroxosulphates (persulphates).											
		- Other sulphates:											
	2833.25	-- Of copper	15% U *	8% B	6.8% B, 9.2% B	3.2% B	Free B	5.8% B A: 4.6%	18% U *	Free B	3.2% B	SwF2.60/100kg B	1.4%
	2833.40	- Peroxosulphates (persulphates)	2% U	Free B	9.2% B	6.3% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.40/100kg B	3.1%
28.34		Nitrites; nitrates.											
	2834.10	- Nitrites	2% U	Free B	8% B	7% B	Free B	4.9% B A: 3.9%	Free B	Free B	5.8% B A: Free	SwF1.10/100kg B	3.1%
		- Nitrates:											
	2834.29	-- Other	2% U	Free B	12.5% B	4.6% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF1.50/100kg B	3.5%
28.36		Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate.											
		- Other:											
	2836.99	-- Other	2% U	Free B	12.5% B	3.7% B	1% B A: Free	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.40/100kg B	3.7%
28.37		Cyanides, cyanide oxides and complex cyanides.											
		- Cyanides and cyanide oxides:											
	2837.19	--Other	Free U	Free B	Free B	6.2% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.75/100kg B	Free
	2837.20	- Complex cyanides	Free U	Free B	Free B	12% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.75/100kg B	1.7%
28.38	2838.00	Fulminates, cyanates and thiocyanates.	2% U	Free B	12.5% B	6.3% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF1.50/100kg B	3.1%
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.											
	2842.10	- Double or complex silicates	2% U	Free B	Free B	6% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.00/100kg B	3.7%
	2842.90	- Other	2% U	Free B	Free B	6.2% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.00/100kg B	3.3%
74.01		Copper mattes; cement copper (precipitated copper).											
	7401.10	- Copper mattes	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	SwF0.20/100kg B	0.7¢/kg on Cu content+ 0.7¢/kg on Pb content
	7401.20	- Cement copper (precipitated copper)	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	SwF0.20/100kg B	1.7% on the value of the Cu content
74.02	7402.00	Unrefined copper; copper anodes for electrolytic refining.	2% U	Free B	Free B	Free B	Free B	7.3% B A: 6)	Free B	Free B	Free B	SwF0.20/100kg B	1% on the value of the Cu content
74.03		Refined copper and copper alloys, unwrought.	2% U	Free B	Free B	Free B	Free B						
		- Refined copper:											
	7403.11	-- Cathodes and sections of cathodes	2% U	Free B	Free B	Free B	Free B	21 yen/kg B A: 6)	5% B	Free B	Free B	SwF0.20/100kg B	1%
	7403.12	-- Wire-bars	2% U	Free B	4% B	Free B	Free B	21 yen/kg B A: 6)	5% B	Free B	Free B	SwF0.20/100kg B	1%
	7403.13	-- Billets	2% U	Free B	Free B	Free B	Free B	21 yen/kg B A: 6)	Free B	Free B	Free B	SwF0.20/100kg B	1%
	7403.19	-- Other	2% U	Free B	Free, 10.3% B	Free B	Free B	21 yen/kg B A: 6)	Free, 5% B	Free B	Free B	SwF0.20/100kg B	1%

		- Copper alloys:												
	7403.21	-- Copper-zinc base alloys (brass)	12% U	Free B	14%, 10.3% B	Free B	Free B	121 yen/kg B IA: 6)	Free, 5% B	Free B	Free B	SwF0.20/100kg B	11%	
	7403.22	-- Copper-tin base alloys (bronze)	12% U	Free B	10.3% B	Free B	Free B	121 yen/kg B IA: 6)	Free, 5% B	Free B	Free B	SwF0.20/100kg B	11%	
	7403.23	-- Copper-nickel base alloys (cupro-nickel) or copper-nickle-zinc base alloys (nickel silver)	12% U	Free B	14.6% B, 10.3% B 5)	Free B	Free B	121 yen/kg B IA: 6)	Free, 5% B	Free B	Free B	SwF0.20/100kg B	11%	
	7403.29	-- Other copper alloys (other than master alloys of heading No. 74.05)	12% U	Free B	14% B,10.2% B	Free B	Free B	121 yen/kg B IA: 6)	Free, 5% B	Free B	Free B	SwF0.20/100kg B	11%	
74.04	7404.00	Copper waste and scrap.	12% U	Free B	Free B, 4% B, 10.2% B	Free B	Free B	Free B	Free B	Free B	Free B	SwF0.05/100kg B, SwF0.20/100kg B	Free	
74.05	7405.00	Master alloys of copper.	12% U	11% B	10.3% B	Free B	Free B	16% IA: 4.8% B	Free B	Free B	Free B	SwF0.50/100kg B	12.8%, 6%	
74.06		Copper powders and flakes.												
	7406.10	- Powders of non-lamellar structure	12% U	18% B	14%, 10.6% B	11.4% B	Free B	17.2% IA: 5.8% B	Free B	Free B	Free B	SwF13.00/100kg B	15.4%	
	7406.20	- Powders of lamellar structure; flakes	12% U	18% B	14%, 10.6% B	16.2% B	Free B	17.2% IA: 5.8% B	Free B	Free B	13.8% B	SwF79.00/100kg B	13%	
74.07		Copper bars, rods and profiles.												
	7407.10	- Of refined copper	10% U	15% B	14%-10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	15% B, 50% B, IA: 22% * and 25.5% *	Free B, 13.8% B	12.5% B	SwF6.00/100kg B- SwF20.00/100kg B	11%, 6.3%	
		- Of copper alloys:												
	7407.21	-- Of copper-zinc base alloys (brass)	10% U	15% B	14%-10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *; 150% B IA: 25.5%	13.8% B, 0.06/kg B	12.5% B	SwF11.00/100kg B- SwF22.00/100kg B	11.9%-3.2%	
	7407.22	-- Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	10% U	15% B	14%-10.3% B	16% B	11.8% B	15.8% IA: 4.6% B	122% U *; 150% B IA: 25.5%	13.8% B, Free B	11.4% B, 12.5% B	SwF11.00/100kg B- SwF22.00/100kg B	16.2%, 6.3%	
	7407.29	-- Other	10% U	15% B	14%-10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *; 150% B IA: 25.5%	13.8% B, Free B	11.4% B, 12.5% B	SwF11.00/100kg B- SwF22.00/100kg B	11.6%, 5.2%	
74.08		Copper wire.												
		- Of refined copper:												
	7408.11	-- Of which the maximum cross-sectional dimension exceeds 6 mm	10% U	15% B	14%-10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *	Free B	12.5% B	SwF6.00/100kg B- SwF13.00/100kg B	11%, 4%	
	7408.19	-- Other	10% U	15% B	14.5%, 10.2% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *	Free B	12.5% B	SwF6.00/100kg B- SwF23.00/100kg B	14%	
		- Of copper alloys:												
	7408.21	-- Of copper-zinc base alloys (brass)	10% U	15% B	14%-10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *	Free B	12.5% B	SwF6.00/100kg B- SwF24.00/100kg B	14%	
	7408.22	-- Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	10% U	15% B	14%-10.3% B	16% B	11.8% B	15.8% IA: 4.6% B	122% U *	Free B	11.4% B, 12.5% B	SwF6.00/100kg B- SwF24.00/100kg B	14%, 4.4%	
	7408.29	-- Other	10% U	15% B	14%, 10.3% B	16% B	11.8% B	17.2% IA: 5.8% B	122% U *	Free B	11.4% B, 12.5% B	SwF6.00/100kg B- SwF24.00/100kg B	14%, 4.4%	
74.09		Copper plates, sheets and strip, of a thickness exceeding 0.15 mm.												
		- Of refined copper:												
	7409.11	-- In coils	10% U	15% B	14%, 10.3% B	16% B	13.5% B	16.5% B IA:5.2%	15% B	0.06/kg B	12.5% B	SwF13.00/100kg B, SwF33.00/100kg B	11%, 6.7%	
	7409.19	-- Other	10% U	15% B	14%, 10.3% B	16% B	13.5% B	16.5% B IA:5.2%	15% B	0.06/kg B	12.5% B	SwF13.00/100kg B, SwF77.00/100kg B	11%, 4.7%	

		- Of copper-zinc base alloys (brass):												
	7409.21	-- In coils	10% U	5% B	4%, 10.3% B	6% B	3.5% B	6% B A:4.8%	5% B	0.06/kg B	2.5% B	SwF14.00/100kg B, SwF77.00/100kg B	1.9%	
	7409.29	-- Other	10% U	5% B	4%, 10.3% B	6% B	3.5% B	6% B A:4.8%	5% B	0.06/kg B	2.5% B	SwF15.00/100kg B, SwF77.00/100kg B	1.9%	
		- Of copper-tin base alloys (bronze):												
	7409.31	-- In coils	10% U	5% B	4%, 10.3% B	6% B	3.5% B	6% B A:4.8%	5% B	0.06/kg B	1.4% B, 2.5% B	SwF14.00/100kg B, SwF77.00/100kg B	1.7%, 5.1%	
	7409.39	-- Other	10% U	5% B	4%, 10.3% B	6% B	3.5% B	6% B A:4.8%	5% B	0.06/kg B	1.4% B, 2.5% B	SwF15.00/100kg B, SwF77.00/100kg B	1.7%, 5.1%	
	7409.40	- Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	10% U	5% B	4%, 10.3% B	6% B	3.5% B	5.8% B A:4.6%	5% B	0.06/kg B	1.4% B, 2.5% B	SwF15.00/100kg B, SwF77.00/100kg B	6.3%	
	7409.90	- Of other copper alloys	10% U	5% B	4%, 10.3% B	6% B	3.5% B	6% B A:4.8%	5% B	0.06/kg B	1.4% B, 2.5% B	SwF15.00/100kg B, SwF77.00/100kg B	1.7%, 5.1%	
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.												
		- Not backed:												
	7410.11	-- Of refined copper	10% U	6% B	4%, 10.3% B	6.5% B	5.1% B	6% B A: 4.8%	5% B A: Free	Free B	2.5% B	SwF24.00/100kg B, SwF55.00/100kg B	1%	
	7410.12	-- Of copper alloys	10% U	6% B	4%, 10.3% B	6.5% B	5.1% B	6.5% B A: 5.2%	5% B A: Free	Free B	1.4% B, 2.5% B	SwF24.00/100kg B, SwF55.00/100kg B	1%	
		- Backed:												
	7410.21	-- Of refined copper	10% U	7% B	4%, 10.3% B	6.5% B	5.1% B A: Free	6% B A: 4.8%	5% B A: Free	Free B	2.5% B	SwF55.00/100kg B	1.5%, 5.3%	
	7410.22	-- Of copper alloys	10% U	7% B	4%, 10.3% B	6.5% B	5.1% B A: Free	6% B A: 4.8%	5% B A: Free	Free B	1.4% B, 2.5% B	SwF55.00/100kg B	1.5%	
74.11		Copper tubes and pipes.												
	7411.10	- Of refined copper	10% U	7% B	4%, 10.3% B	6% B	3.8% B	6.5% B A: 5.2%	5% B, 18% U *	3.8% B	2.5% B	SwF16.00/100kg B, SwF19.00/100kg B	1.5%, 5%	
		- Of copper alloys:												
	7411.21	-- Of copper-zinc base alloys (brass)	10% U	7% B	4%, 10.3% B	6% B	3.8% B	6.5% B A: 5.2%	18% U *	3.8% B	2.5% B	SwF16.00/100kg B, SwF19.00/100kg B	1.4%, 4.5%	
	7411.22	-- Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	10% U	7% B	4%, 10.3% B	6% B	3.8% B	6.5% B A: 5.2%	18% U *	3.8% B	2.5% B	SwF16.00/100kg B, SwF19.00/100kg B	5.1%	
	7411.29	-- Other	10% U	7% B	Free-10.3% B	6% B	3.8% B	8.2% B A: 6.6%	18% U *	3.8% B	2.5% B	SwF16.00/100kg B, SwF19.00/100kg B	1.4%, 4.5%	
74.12		Copper tube or pipe fittings (for example, couplings, elbows, sleeves).												
	7412.10	- Of refined copper	20% U	8% B	10.3% B	6.5% B	4.4% B	5.8% B A: 4.6%	22.5% U *	5.1% B	3.2% B	SwF38.00/100kg B, SwF54.00/100kg B	11.2%	
	7412.20	- Of copper alloys	20% U	8% B	10.3% B	6.5% B	4.4% B	5.8% B A: 4.6%	22.5% U *	5.1% B	3.2% B	SwF38.00/100kg B, SwF54.00/100kg B	3.2%	
74.13	7413.00	Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated.	10% U	8% B 4)	10.3% B	Free-6.5% B	3.8% B	7.2% B A: 5.8%	29% U * 35% U * 55% U *	0.10/kg B	2.5% B 4)	SwF33.00/100kg B	4%-5.7%	

74.14		Cloth (including endless bands), grill and netting, of copper wire; expanded metal of copper.												
	7414.10	- Endless bands, for machinery	25% U	7% B	10.2% B	6.5% B	2.2% B	4.9% B A: 3.9%	5% B	3.8% B	3.2% B	SwF28.00/100kg B	Free-10%	
	7414.90	- Other	25% U	8% B	10.2% B	6.5% B	2.2% B	5.8% B A: 4.6%	5% B	Free B	3.2% B	SwF37.00/100kg B	4.9%	
74.15		Nails, tacks, drawing pins, staples (other than those of heading No. 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	20% U	6% B	10.3% B	6.5% B	5.1% B	5.8% B A: 4.6%	Free B; 7) 5% B *; 22% U *	5.1% B	3.2% B	SwF28.00/100kg B	5.1%	
		- Other articles, not threaded:												
	7415.21	-- Washers (including spring washers)	25% U	7% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	22.5% U *	5.1% B	3.2% B	SwF28.00/100kg B	5.9%	
	7415.29	-- Other	25% U	7% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	5% B	5.1% B	3.2% B	SwF28.00/100kg B, SwF58.00/100kg B	4.7%	
		- Other threaded articles:												
	7415.31	-- Screws for wood	40% B A: 25%	7% B	10.2% B	4.9% B	5.1% B	5.8% B A: 4.6%	22.5% U *	5.1% B	3.2% B	SwF43.00/100kg B	5.5%	
	7415.32	-- Other screws; bolts and nuts	25% U	7% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	5% B, 8) 22.5% U	5.1% B	3.2% B	SwF32.00/100kg B, SwF35.00/100kg B	11.4%-6.3%	
	7415.39	-- Other	25% U	7% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	Free B, 5% U	5.1% B	3.2% B	SwF32.00/100kg B, SwF58.00/100kg B	5.7%	
74.16	7416.00	Copper springs.	25% U	6% B	10.3% B	6.5% B	3.8% B	5.8% B A: 4.6%	5% B	3.8% B	3.2% B	SwF98.00/100kg B	5.7%	
74.17	7417.00	Cooking or heating apparatus of a kind used for domestic purposes, non-electric, and parts thereof, of copper.	25% U	14% B	12.5% B	6.5% B	3.6% B	5.8% B A: 4.6%	55% B, A: 25.5% *	3.8% B	3.2% B	SwF55.00/100kg B	4.2%	
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.												
	7418.10	Table, kitchen or other household articles and parts thereof; pot scourers and scouring or polishing pads, gloves and the like	20% U	12% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.1%	50% B A: 25.5% *	3.8% B	3.2% B	SwF52.00/100kg B, SwF87.00/100kg B	13.7%-4.9%	
	7418.20	- Sanitary ware and parts thereof	20% U	12% B	10.3% B	4.9% B	5.1% B	5.1% B A: 4.1%	50% B A: 25.5% *	3.8% B	3.2% B	SwF26.00/100kg B, SwF52.00/100kg B	13.7%, 4.9%	

74.19		Other articles of copper.											
	7419.10	- Chain and parts thereof	20% U	9% B	10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	10% B, A: 9.5% *	3.8% B	3.2% B	SwF67.00/100kg B	5.1%
		- Other:											
	7419.91	-- Cast, moulded, stamped or forged, but not further worked	20% U	8% B	Free B, 10.3% B	4.9% B	5.1% B	5.8% B A: 4.6%	50% B * A: 25.5%	3.8% B	3.2% B	SwF26.00/100kg B	5%
	7419.99	-- Other	20% U	9.5% B	Free-15% B	4.9% B	5.1% B	5.8% B A: 4.6%; 10% B	Free B; 20%-50% U A: 25.5% * 9)	3.8% B	3.2% B, 3.8% B	SwF42.00/100kg B- SwF92.00/100kg B	5%-10%

B - Bound rate. U - Unbound rate. A - Applied rate.

1) Australian tariff rates indicate rates stated in the Combined Customs Tariff and Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988. Tariff lines with "asterix" are foreseen for reductions in stages until 1992.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
3) The Harmonised System comes into force 1 January 1989. The United States will present its Schedule based on the HS at a later stage.
4) In accordance with the Agreement on Trade in Civil Aircraft and under customs control, with fittings: Free
5) 740323.10 - Applied rate: Free
6) Under the Japanese sliding tariff system, tariff duties increase/decrease with the decrease/increase in prices of refined copper.
7) Nails of unalloyed copper or silicon bronze.
8) Screw hooks and screw rings.
9) Subject to Article XXVIII Negotiations as a result of the introduction of the 1978 tariff.

L E A D
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TABLE 1

WORLD MINE PRODUCTION OF LEAD, 1960-1986

	Thousands of metric tons										Percentages of world production									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	2,372	2,784	3,443	3,673	3,560	3,585	3,569	3,378	3,493	3,380	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries	685	731	808	885	772	815	787	837	855	840	32.0	28.3	25.6	25.8	21.7	22.7	22.1	24.8	24.5	24.9
of which:																				
Algeria	10	10	7	4	2	4	4	4	4	4	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Argentina	27	32	36	35	30	32	33	29	29	29	1.1	1.2	1.0	0.9	0.8	0.9	0.9	0.9	0.8	0.9
Bolivia	21	18	26	24	18	16	16	7	6	3	0.9	0.7	0.7	0.7	0.5	0.4	0.5	0.2	0.2	0.1
Brazil	10	24	20	27	22	28	25	19	18	17	0.4	0.9	0.6	0.7	0.6	0.8	0.7	0.6	0.5	0.5
Honduras	4	9	15	21	22	16	13	21	21	12	0.2	0.3	0.4	0.6	0.6	0.4	0.4	0.6	0.6	0.4
India	5	4	3	7	12	15	14	19	26	25	0.2	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	0.7
Iran	17	12	23	38	50	15	12	20	21	20	0.7	0.4	0.7	1.0	1.4	0.4	0.3	0.6	0.6	0.6
Korea, Rep. of	1	4	13	13	12	12	12	11	10	24	0.1	0.1	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.7
Mexico	191	169	172	179	162	161	152	193	187	197	8.1	6.1	5.0	5.6	4.6	4.5	4.3	5.7	5.4	5.8
Morrocco	95	77	76	93	70	111	115	99	107	73	4.0	2.8	2.2	2.5	2.0	3.1	3.2	2.9	3.1	2.2
Peru	132	171	174	204	155	184	189	194	202	194	5.6	6.1	5.0	5.6	4.4	5.1	5.3	5.7	5.8	5.7
Romania*	12	15	40	45	34	34	23	30	35	34	0.5	0.5	1.2	1.2	1.0	1.0	0.7	0.9	1.0	1.0
Tunisia	18	15	23	15	11	9	8	4	2	2	0.8	0.5	0.7	0.4	0.3	0.3	0.2	0.1	0.1	0.1
Yugoslavia	91	106	127	119	127	130	121	114	115	117	3.8	3.8	3.7	3.2	3.6	3.6	3.4	3.4	3.3	3.5
Zambia	15	35	33	37	26	17	15	25	23	24	0.6	1.3	1.0	1.0	0.7	0.5	0.4	0.7	0.7	0.7
Other	36	30	20	24	19	31	35	48	49	65	1.5	1.1	0.6	0.7	0.5	0.9	1.0	1.4	1.4	1.9
Developed countries	1,116	1,344	1,820	1,809	1,737	1,756	1,790	1,564	1,652	1,577	47.1	48.3	52.8	48.7	48.8	49.0	50.1	46.3	47.3	46.7
of which:																				
Australia	306	361	441	395	395	402	382	418	474	418	12.9	13.0	12.8	10.8	11.0	11.2	10.7	12.4	13.6	12.4
Austria	5	5	5	5	6	5	4	4	6	5	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1
Canada	193	275	357	401	353	342	297	307	285	349	8.1	9.9	10.4	10.9	9.9	9.5	8.3	9.1	8.2	10.3
EEC[1]	214	175	256	241	229	293	283	227	209	194	9.0	6.3	7.4	6.5	6.5	8.2	7.9	6.7	6.0	5.7
Denmark (Greenland)	7	-	-	6	23	32	29	18	18	16	0.3	-	-	0.2	0.6	0.9	0.8	0.5	0.5	0.5
France	18	18	29	25	22	30	29	2	3	3	0.8	0.6	0.8	0.7	0.6	0.8	0.8	0.1	0.1	0.1
Germany, F.R.	51	52	43	40	39	33	31	27	26	22	2.2	1.9	1.2	1.1	1.1	0.9	0.9	0.8	0.7	0.7
Greece	13	9	9	19	14	22	22	22	20	21	0.5	0.3	0.3	0.5	0.4	0.6	0.6	0.7	0.6	0.6
Ireland	1	3	63	57	37	69	58	37	35	36	0.1	0.1	1.8	1.5	1.0	1.9	1.6	1.1	1.0	1.1
Italy	50	35	35	27	29	28	23	21	16	11	2.1	1.3	1.0	0.7	0.8	0.8	0.6	0.6	0.5	0.3
Spain	73	56	73	64	59	74	87	96	87	82	3.1	2.0	2.1	1.7	1.7	2.1	2.4	2.8	2.5	2.4
United Kingdom	1	2	4	3	6	5	4	4	4	3	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
Finland	2	6	5	2	1	1	1	3	2	2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Japan	40	56	64	53	51	47	45	49	50	40	1.7	2.0	1.9	1.4	1.4	1.3	1.3	1.5	1.4	1.2
Norway	3	4	3	3	3	3	3	4	3	3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
South Africa[2]	65	110	71	63	53	42	132	137	123	125	2.7	3.9	2.1	1.7	1.5	1.2	3.7	4.1	3.5	3.7
Sweden	55	69	78	76	69	84	70	80	76	89	2.3	2.5	2.3	2.1	1.9	2.3	2.0	2.4	2.2	2.6
United States	233	284	540	570	577	537	573	335	424	352	9.8	10.2	15.7	15.5	16.2	15.0	16.0	9.9	12.1	10.4
Centrally-planned Economies	571	709	815	979	1,051	1,014	992	977	986	963	24.0	25.4	23.7	26.7	29.5	28.3	27.8	28.9	28.2	28.5
of which:																				
Bulgaria	95	100	99	105	108	108	100	95	97	97	4.0	3.6	2.9	2.9	3.0	3.0	2.8	2.8	2.8	2.9
Poland	39	41	57	68	77	57	48	53	51	43	1.6	1.5	1.7	1.9	2.2	1.6	1.3	1.6	1.5	1.3
USSR*	300	400	470	570	600	590	580	570	580	550	12.6	14.3	13.6	15.5	16.9	16.5	16.3	16.9	16.6	16.3
China, P.R.*	80	100	110	130	140	155	160	165	175	185	3.4	3.6	3.2	3.5	3.9	4.3	4.5	4.9	5.0	5.5
Korea, P.R.*	50	60	70	100	120	100	100	90	80	85	2.1	2.1	2.0	2.7	3.3	2.8	2.8	2.7	2.3	2.5
Other	7	8	9	6	6	4	4	4	3	3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1

*Estimates

[1]For comparative purposes, total figures for the EEC include 12 member states for the whole period. [2]Including Namibia

Source: Lead and Zinc Statistics, Monthly Bulletin of the International Lead and Zinc Study Group. Several issues

Definition: Lead content by analysis of lead ores and concentrates plus the lead content of other ores and concentrates known to be intended for lead recovery.

TABLE 2

WORLD PRODUCTION OF REFINED LEAD, 1960-1986

	Thousands of metric tons										Percentages of world production									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	3,277	3,714	4,688	4,991	4,846	5,622	5,405	5,437	5,645	5,474	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries of which:	488	509	567	609	663	773	703	726	847	883	15.1	13.7	12.1	12.2	13.7	14.0	13.0	13.4	15.0	16.1
Algeria	4	4	4	4	4	5	5	5	4	4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Argentina	29	39	38	48	64	53	42	31	35	34	0.9	1.0	0.8	1.0	1.3	1.0	0.8	0.6	0.6	0.6
Brazil	10	10	36	59	63	98	85	64	73	85	0.3	0.3	0.8	1.2	1.3	1.7	1.6	1.2	1.3	1.6
India	4	3	2	9	15	21	26	24	24	29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.4	0.4	0.5
Korea, Rep.of	2	2	4	4	6	13	15	27	36	60	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.6	1.1
Mexico	173	164	175	167	176	208	159	172	203	185	5.4	4.4	3.7	3.3	3.6	3.7	2.9	3.2	3.6	3.4
Morocco	31	17	25	1	9	37	42	48	63	55	1.0	0.5	0.5	0.0	0.2	0.7	0.8	0.9	1.1	1.0
Peru	74	87	74	86	75	90	87	72	83	66	2.3	2.3	1.6	1.7	1.6	1.6	1.6	1.3	1.5	1.2
Romania	12	16	35	40	45	41	41	46	49	49	0.4	0.4	0.7	0.8	0.9	0.7	0.8	0.8	0.9	0.9
Taiwan	4	4	5	5	6	20	24	44	49	54	0.1	0.1	0.0	0.1	0.1	0.4	0.4	0.8	0.9	1.0
Tunisia	20	15	23	27	24	17	19	8	4	3	0.6	0.4	0.5	0.5	0.5	0.3	0.3	0.1	0.1	0.1
Yugoslavia	89	101	97	98	130	111	102	100	123	155	2.7	2.7	2.1	2.0	2.7	2.0	1.9	1.8	2.2	2.8
Zambia	15	22	27	27	19	13	10	9	10	6	0.5	0.6	0.6	0.5	0.4	0.2	0.2	0.2	0.2	0.1
Other	21	25	22	34	27	46	46	76	91	98	0.6	0.7	0.5	0.7	0.6	0.8	0.8	1.4	1.6	1.8
Developed countries of which:	1,953	2,313	3,081	3,232	3,019	3,566	3,421	3,383	3,439	3,239	60.5	62.3	65.7	64.8	62.3	62.4	63.3	62.2	60.9	59.2
Australia	209	219	213	221	193	248	234	220	216	171	6.5	5.9	4.5	4.4	4.0	4.4	4.3	4.0	3.8	3.1
Austria	11	12	13	15	15	17	17	26	25	25	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.5
Canada	164	209	221	237	216	252	235	254	240	258	5.1	5.6	4.7	4.7	4.5	4.5	4.4	4.7	4.3	4.7
EEC[1]	723	803	1,165	1,230	1,166	1,407	1,348	1,397	1,388	1,350	22.4	21.7	24.9	24.7	21.9	22.6	22.5	25.7	24.6	24.7
Belgium	87	101	89	98	103	92	106	120	105	90	2.7	2.7	1.9	2.0	2.1	1.6	2.0	2.2	1.9	1.6
Denmark	8	11	16	13	14	30	24	10	1	-	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.2	0.0	0.0
France	110	128	180	206	169	220	219	206	224	231	3.4	3.5	3.8	4.1	3.5	3.9	4.1	3.8	4.0	4.2
Germany, F.R.	223	256	356	359	316	373	350	357	356	367	6.9	6.9	7.6	7.2	6.5	6.6	6.5	6.6	6.3	6.7
Greece	4	7	16	21	16	22	21	12	14	19	0.1	0.2	0.3	0.4	0.3	0.4	0.4	0.2	0.2	0.3
Ireland	4	4	4	5	5	7	7	9	9	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Italy	52	53	101	100	90	126	134	145	140	132	1.6	1.4	2.1	2.0	1.8	2.2	2.5	2.7	2.5	2.4
Netherlands	14	16	25	42	37	35	32	34	37	36	0.4	0.4	0.5	0.8	0.8	0.6	0.6	0.6	0.7	0.7
Portugal	2	1	1	1	2	5	6	6	7	6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Spain	71	54	90	120	101	129	124	160	168	130	2.2	1.5	1.9	2.4	2.1	2.3	2.3	2.9	3.0	2.4
United Kingdom	148	172	287	285	313	368	325	338	327	329	4.6	4.6	6.1	5.3	6.5	6.6	6.0	6.2	5.8	6.0
Finland	3	4	4	4	4	6	3	4	5	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Japan	136	174	275	305	252	283	305	363	367	362	4.2	4.7	5.9	6.1	5.2	5.0	5.6	6.7	6.5	6.6
New Zealand	2	4	4	4	5	9	7	6	4	4	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Norway	2	2	1	1	1	0	0	-	-	-	0.1	0.1	0.1	0.1	0.0	0	0	0.0	0.0	0.0
South Africa[2]	-	66	68	68	68	72	78	67	75	70	-	1.7	1.5	1.4	1.4	1.3	1.5	1.2	1.3	1.3
Sweden	55	55	53	42	37	41	39	73	70	79	1.7	1.5	1.2	0.8	0.8	0.7	0.7	1.3	1.2	1.4
Switzerland	4	4	5	5	5	5	5	2	2	2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
United States	644	761	1,057	1,100	1,057	1,226	1,150	971	1,047	917	20.0	20.5	22.5	22.0	21.8	21.8	21.3	17.9	18.5	16.8
Centrally-planned economies of which:	706	807	957	1,070	1,164	1,283	1,281	1,328	1,359	1,352	21.9	21.9	20.4	21.4	24.0	22.8	23.7	24.4	24.1	24.7
Bulgaria[4]	95	100	99	100	110	120	118	114	116	119	2.9	2.7	2.1	2.0	2.3	2.1	2.2	2.1	2.1	2.2
Czechoslovakia	15	15	18	17	18	19	20	21	21	24	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.4
Germany, D.R.[4]	25	25	30	35	39	42	41	45	45	46	0.8	0.7	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Poland	40	41	55	68	76	82	82	83	87	88	1.2	1.1	1.2	1.4	1.6	1.5	1.5	1.5	1.5	1.6
USSR[4]	390	460	580	650	700	780	780	800	810	790	12.1	12.4	12.4	13.0	14.4	13.9	14.4	14.7	14.3	14.4
China, P.R.[4]	90	110	120	130	140	170	175	200	215	220	2.8	2.9	2.5	2.6	2.9	3.0	3.2	3.7	3.8	4.0
Korea, P.R.[4]	50	55	55	70	80	70	65	65	65	65	1.5	1.4	1.2	1.4	1.6	1.2	1.2	1.2	1.2	1.2
Other	1	1	-	-	1	0	0	-	-	-	0.1	0.1	-	-	0.0	0	0	-	-	-
Unreported production[3]	80	85	83	80	-	-	-	-	-	-	2.5	2.3	1.8	1.6	-	-	-	-	-	-

[1] For comparative purposes, total figures for the EEC include twelve member States for the whole period.
[2] Including Namibia.
[3] Estimates of production of refined lead and lead alloys recovered from secondary materials not included in reported data.

[4] Estimates

Source: International Lead and Zinc Study Group

Definition: Total production by smelters and refineries of refined pig lead, including the lead content of antimonial lead and including production on toll in the reporting country - regardless of the type of source material, i.e. whether ores, concentrates, lead bullion, mattes, residues, slags or scrap. Pig lead and lead alloys recovered from secondary materials remelting alone without undergoing further treatment before re-use are excluded.

TABLE 3

WORLD CONSUMPTION OF REFINED LEAD, 1960-1986

	Thousands of metric tons										Percentages of world production									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	3080	3671	4502	5218	4757	5624	5404	5441	5494	5537	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing Countries	176	267	369	488	555	664	689	754	871	929	5.8	7.2	8.2	9.4	11.6	11.8	12.8	13.9	15.9	16.8
of which:																				
Algeria	(NA)	(NA)	1	5	5	5	16	11	15	13	(NA)	(NA)	0.0	0.1	0.1	0.1	0.3	0.2	0.3	0.2
Argentina	29	39	42	36	53	56	46	31	33	34	0.9	0.7	1.1	0.7	1.1	1.0	0.9	0.6	0.6	0.6
Brazil	18	18	37	79	76	98	82	64	73	92	0.6	0.5	0.8	1.5	1.6	1.7	1.5	1.2	1.3	1.7
Egypt	(NA)	(NA)	6	8	10	15	14	28	30	30	(NA)	(NA)	0.1	0.1	0.2	0.3	0.3	0.5	0.5	0.5
India	25	37	42	41	45	59	54	60	72	77	0.8	1.0	0.9	0.8	0.9	1.0	1.0	1.1	1.3	1.4
Iran	2	2	8	6	14	10	16	20	17	24	0.1	0.0	0.2	0.1	0.3	0.2	0.3	0.4	0.3	0.4
Korea, Rep. of	2	2	5	7	16	33	30	57	81	88	0.1	0.0	0.1	0.1	0.3	0.6	0.6	1.0	1.5	1.6
Malaysia	2	2	3	4	7	12	13	13	16	21	16	0.1	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.3
Mexico	32	56	75	88	77	96	85	110	125	95	1.0	1.5	1.7	1.7	1.6	1.7	1.6	2.0	2.3	1.7
Morocco	(NA)	(NA)	3	3	4	4	6	5	5	3	(NA)	(NA)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Peru	3	6	7	13	13	20	26	16	14	20	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.3	0.3	0.4
Romania[a]	12	11	32	40	48	49	51	51	55	54	0.4	0.3	0.7	0.8	1.0	0.9	0.9	0.9	1.0	1.0
Taiwan	3	4	5	10	14	18	24	41	40	49	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.8	0.7	0.9
Thailand	1	2	3	7	10	10	16	17	16	23	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4
Tunisia	(NA)	(NA)	3	3	5	5	5	4	4	3	(NA)	(NA)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Turkey	1	3	8	9	8	7	11	19	22	23	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.4	0.4
Venezuela	3	4	5	7	10	11	14	24	26	28	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5
Yugoslavia	23	4	46	70	83	84	105	95	116	145	0.7	1.2	1.0	1.3	1.7	1.5	1.9	1.7	2.1	2.6
Zambia	1	4	6	6	6	3	3	2	3	3	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.0	0.1	0.1
Other	19	34	32	46	51	69	72	83	103	109	0.6	0.9	0.7	0.9	1.1	1.2	1.3	1.5	1.9	2.0
Developed Countries	2182	2568	3063	3529	2940	3567	3303	3296	3233	3232	70.8	70.0	68.0	67.6	61.8	63.4	61.1	60.6	58.8	58.4
of which:																				
Australia	57	60	62	74	72	74	71	59	59	60	1.8	1.6	1.4	1.4	1.5	1.3	1.3	1.1	1.1	1.1
Austria	21	21	30	30	29	47	53	62	62	61	0.7	0.6	0.7	0.6	0.6	0.8	1.0	1.1	1.1	1.1
Canada	66	85	87	114	92	122	113	122	100	102	2.1	2.3	1.9	2.2	1.9	2.2	2.1	2.2	1.8	1.8
EEC[1]	955	1075	1268	1416	1226	1475	1431	1397	1362	1380	31.0	29.3	28.1	27.1	25.8	26.1	26.4	25.7	24.8	24.9
Belgiue	55	51	61	68	50	58	59	72	66	72	1.8	1.4	1.4	1.3	1.1	1.0	1.1	1.3	1.2	1.3
Denmark	20	22	27	19	19	30	23	15	13	15	0.6	0.6	0.6	0.4	0.4	0.5	0.4	0.3	0.2	0.3
France	161	145	200	223	190	211	212	209	208	205	5.2	4.0	4.4	4.3	4.0	3.7	3.9	3.8	3.8	3.7
Germany, F.R.	258	302	358	351	283	361	333	357	346	359	8.4	8.2	8.0	6.7	6.0	6.4	6.1	6.6	6.3	6.5
Greece	5	8	24	44	23	27	28	20	23	16	0.2	0.2	0.5	0.8	0.5	0.5	0.5	0.4	0.4	0.3
Ireland	5	5	7	7	7	7	7	10	10	12	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Italy	78	92	191	234	192	258	275	238	235	238	2.5	2.5	4.2	4.5	4.0	4.6	5.1	4.4	4.3	4.3
Netherlands	51	58	50	55	44	56	62	47	45	46	1.7	1.6	1.1	1.1	0.9	1.0	1.1	0.9	0.8	0.8
Portugal	6	8	10	12	9	19	22	27	26	23	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.4
Spain	29	72	78	121	103	115	114	107	116	112	0.9	2.0	1.7	2.3	2.2	2.0	2.1	2.0	2.1	2.0
United Kingdom	287	312	262	282	306	333	296	295	274	282	9.3	8.5	5.8	5.4	6.4	5.9	5.5	5.4	5.0	5.1
Finland	14	12	10	17	18	21	23	19	24	15	0.5	0.3	0.2	0.3	0.4	0.4	0.4	0.3	0.4	0.3
Japan	163	209	271	348	266	365	393	391	397	390	5.3	5.7	6.0	6.7	5.6	6.5	7.2	7.2	7.2	7.0
New Zealand	8	10	10	11	14	15	14	12	10	8	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1
Norway	9	10	13	14	15	13	14	13	13	15	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3
South Africa, Rep. of	13	17	24	27	41	50	53	42	48	49	0.4	0.5	0.5	0.5	0.9	0.9	1.0	0.8	0.9	0.9
Sweden	44	52	47	34	29	22	25	26	27	24	1.4	1.4	1.1	0.6	0.6	0.4	0.5	0.5	0.5	0.4
Switzerland	23	28	31	21	18	19	19	10	10	10	0.7	0.8	0.7	0.4	0.4	0.3	0.4	0.2	0.2	0.2
United States	809	989	1210	1423	1120	1344	1094	1143	1121	1118	26.3	26.9	26.9	27.3	23.5	24.0	20.2	21.0	20.4	20.2
Centrally-planned economies	642	751	987	1121	1262	1393	1412	1391	1390	1376	20.8	20.5	21.9	21.5	26.6	24.8	26.1	25.6	25.3	24.9
of which:																				
Bulgaria[a]	35	40	77	85	95	108	110	114	115	116	1.1	1.1	1.7	1.6	2.0	1.9	2.0	2.1	2.1	2.1
Czechoslovakia	42	43	44	49	53	60	60	48	46	48	1.4	1.2	1.0	1.0	1.1	1.1	1.1	0.9	0.8	0.9
Germany, D.R.[a]	65	80	80	85	91	100	100	89	91	93	2.1	2.2	1.8	1.6	1.9	1.8	1.8	1.6	1.7	1.7
Poland	51	52	69	85	95	87	86	90	94	91	1.6	1.4	1.5	1.6	2.0	1.5	1.6	1.7	1.7	1.6
USSR[a]	360	405	525	610	700	780	800	790	780	760	11.7	11.0	11.7	11.7	14.8	13.9	14.8	14.5	14.2	13.7
China, P.R.[a]	70	100	160	170	185	210	210	215	220	2252	2.3	2.7	3.5	3.3	3.9	3.7	3.9	4.0	4.0	4.1
Other[a]	19	31	32	37	43	48	46	45	44	43	0.6	0.9	0.7	0.7	0.9	0.9	0.9	0.8	0.8	0.8
Unreported Consumption[2]	80	85	83	80	-	-	-	-	-	-	2.6	2.3	1.9	1.5	-	-	-	-	-	-

[1] For comparative purposes, total figures for the EEC include twelve member states for the whole period.

[2] Estimates of consumption of refined lead and lead alloys recovered from secondary materials not included in reported data.

[3] Estimates

Source: International Lead and Zinc Study Group

Definition: Total consumption of refined pig lead, including the lead content of antimonial lead, regardless of the type of material from which produced i.e, ores, concentrates, lead bullion, lead alloy, residues, slags or scrap. Pig lead and lead alloys recovered from secondary materials remelting alone without undergoing further treatment before re-use are excluded.

TABLE 4

DIRECTION OF TRADE BY MAIN EXPORTERS, 1986

(as a percentage share of total exports)

Lead Ores and Concentrates (lead content)		Lead Bullion		Refined Lead	
Country	%	Country	%	Country	%
Peru*	121.0	Australia	185.0	Canada	112.0
to:		to:		to:	
EEC	33.8	EEC	81.7	United States	74.1
United States	19.8	Korea, Rep.of	9.5	EEC	23.2
Japan	19.3	Japan	8.7	Other	2.7
Korea, P.D.R.	7.3	Other	0.1		
USSR	6.8			Australia	111.0
Yugoslavia	5.2			to:	
Brazil	4.4			India	38.7
Other	3.4			Indonesia	11.7
				Japan	11.7
Canada	108.0			EEC	4.5
to:				Thailand	4.5
Japan	41.7			Korea, Rep. of	2.7
EEC	38.0			Other	26.1
Australia	5.5				
United States	5.5			Mexico	105.0
Other	9.3			to:	
				EEC	56.0
Australia	92.0			United States	26.1
to:				Brazil	4.9
Japan	31.5			Yugoslavia	3.9
EEC	25.0			Japan	2.9
United States	12.0			Cuba	2.0
Other	31.5			Other	4.2
South Africa	66.0			EEC	60.8
to:				to:	
EEC	64.0			Austria	31.1
Other	36.0			Turkey	14.3
				Czechoslovakia	11.7
Sweden	33.0			Egypt	7.4
to:				Switzerland	7.0
EEC	54.5			Other	28.4
Other	45.5				
				Peru	52.0
				to:	
				EEC	41.6
				Korea, Rep.of	20.5
				Venezuela	16.7
				Japan	13.4
				United States	4.6
				Other	3.2
				Sweden	51.0
				to:	
				EEC	37.0
				Germany, D.R.	14.6
				Norway	11.9
				USSR	10.2
				Finland	8.6
				Poland	7.2
				Other	10.4
				Morocco[1]	41.0
				to:	
				EEC	98.0
				Others	2.0

[1] Based on the statistics of the importing country.

*Estimates

Source: Lead and Zinc Statistics, Monthly Bulletin of the International Lead and Zinc Study Group, June 1988.
Metallstatistik, 1976-1986, Metallgesellschaft AG, Frankfurt 1987.
Nimexe Statistics 1986.

TABLE 5

DIRECTION OF TRADE BY MAIN IMPORTERS, 1986

(as a percentage share of total imports)

Lead Ores and Concentrates (lead content)		Lead Bullion		Refined Lead	
Country	%	Country	%	Country	%
EEC Gross Weight	448.3	EEC	169.7	EEC	483.4
Lead content	276.0*	from:		from:	
from:		Australia	90.3	Peru	71.3
South Africa	19.2	Sweden	4.9	Morocco	8.3
Australia	18.2	*Korea, P.D.R.	4.0	Mexico	7.2
Canada	16.5	Other	0.7	Canada	5.4
Peru	14.0			South Africa	2.0
Sweden	11.4	Japan	19.2	USSR	2.0
Morocco	3.4	from:		Other	3.8
Bolivia	3.0	Australia	58.9		
Honduras	2.6	Korea, P.D.R.	41.1	United States	140.0
Other	11.7			from:	
				Canada	75.0
Japan	199.0			Mexico	20.7
from:				Peru	0.7
Canada	24.6			Other	3.6
Australia	22.2				
Peru	16.4			Austria	38.0
South Africa	13.7			from:	
Thailand	10.9			EEC	71.9
United States	6.7			South Africa	14.4
China, P.R.	3.7			Sweden	6.3
Other	1.8			Other	7.4
Sweden	48.6			Korea, Rep.of	35.0
from:				from:	
Chile	41.8			Peru	33.1
Norway	30.8			China, P.R.	19.2
Philippines	7.1			United States	8.7
Other	20.3			Australia	8.1
				Other	30.9
				Japan	28.0
				from:	
				Australia	50.0
				Peru	25.0
				Mexico	14.3
				Other	10.7
				India[1]	16.0
				from:	
				Australia*	100.0
				Finland	16.0
				from:	
				Sweden	45.5
				USSR	41.3
				EEC	13.2
				Taiwan	16.0
				from:	
				Australia	51.6
				Japan	23.2
				Peru	15.3
				United States	9.2
				Other	0.5

[1]Based on the statistics of the exporting country.

*Estimates

Source: Lead and Zinc Statistics, Monthly Bulletin of the International Lead and Zinc Study Group, June 1988
Metallstatistik, 1976-1986, Metallgesellschaft, Frankfurt 1987
Nimexe Statistics, 1986
Republic of Korea, Statistical Yearbook of Foreign Trade, December 1986
Foreign Trade, Official Statistics of Finland, 1986, Volume 1, Helsinki 1987
Foreign Trade 1986, Quarterly Bulletin, Imports, January-December, Annual Data, Sweden

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN LEAD AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Export embargo	Ash and residues containing metals (CCCN 26.03)	Austria
	Lead and articles thereof (CCCN ex 78)	Pakistan
	Lead waste and scrap (CCCN ex 78.01)	Brazil, Colombia
Export restrictions	Metallic ores, slag and ash (CCCN ex 26)	Canada[1]
Export quotas	Certain minerals and metals (CCCN ex 26)	India
	Lead waste and scrap (CCCN ex 78.01)	EEC
Export licensing or administrative documentation requirement	Metallic ores and concentrates (CCCN ex 26.01)	Brazil, New Zealand
	Ash and residues containing metals (CCCN 26.03)	Brazil, Finland, Tunisia
	Lead and articles thereof (CCCN ex 78)	Malaysia
	Lead, unwrought and waste (CCCN ex 78.01)	Malaysia
	Unwrought lead (CCCN ex 78.01)	Korea, Rep.of
	Lead waste and scrap (CCCN ex 78.01)	Austria, Dominican Republic, New Zealand, Sri Lanka
	Lead articles (CCCN 78.02, 78.03, 78.04, 78.05)	Tunisia
Export taxes	Metallic ores, slag and ash (CCCN ex 26)	Canada
	Lead ashes and residues (CCCN ex 26.03)	Switzerland
	Lead and articles thereof (CCCN ex 78)	Canada
	Lead waste and scrap (CCCN ex 78.01)	Switzerland
II. On imports		
Prohibition or embargo	Lead waste (CCCN ex 78.01)	Bangladesh
	Tubes and pipes of lead (CCCN 78.05)	Egypt, Senegal
Quota unspecified	Lead ores (CCCN 2601.7a)	Yugoslavia
	Metallic articles (CCCN ex 78)	Senegal
	Unwrought lead (CCCN 78.01.1)	Yugoslavia
Quantitative restrictions	Lead oxides (CCCN 28.27)	EEC (Italy)
	Sulphates and persulphates (CCCN ex 28.38)	EEC (Germany, F.R., Italy)
	Lead articles (CCCN 78.02 to 78.06)	EEC (Italy)
Licensing	Metallic ores, slag and ash (CCCN ex 26)	India, Japan, Switzerland
	Lead concentrates (CCCN 26.01.7b)[1]	Yugoslavia
	Lead waste and scrap (CCCN ex 78.01)[2]	Yugoslavia
Licensing (unspecified)	Wheel balancing weights (CCCN 78.06.900)	Jamaica
Liberal licensing	Lead ores and concentrates (26.01.700)	Korea, Rep.of
Automatic licensing	Ash and residues containing metals (CCCN 26.03)	South Africa
	Other chlorides (28.30.5090)	South Africa

Non-tariff measures	Product	Country(ies) maintaining the measure
Non-automatic licensing	Metallic ores, slag and ash (CCCN 26)	Sri Lanka, Tunisia, Zambia
	Lead ores and concentrates (CCCN 26.01.07000)	Argentina, Tunisia
	Ash and residues containing metals (CCCN 26.03)	Argentina, Colombia, Sri Lanka, Turkey
	Litharge, red lead, white lead (CCCN 28.27)	India
	Lead protoxide (CCCN 28.27.0001) and saline lead oxide (CCCN 28.27.0002)	Argentina
	Other chlorides, oxychlorides and hydroxchlorides (CCCN ex 28.30.000199, 28.30.000299)	Argentina
	Other chlorides (CCCN 28.30.199)	Colombia
	Sulphides and polysulphides (CCCN 28.35)	Sri Lanka
	Sulphides other than those of strontium, zinc, mercury and molybdenum, polysulphides (CCCN 28.35.0099)	Argentina
	Other sulphides than sodium (CCCN 28.35.0199)	Argentina, Colombia
	Nitrites and nitrates (CCCN 28.39)	Israel
	Lead arsenates (CCCN ex 28.48)	India
	Lead and articles thereof (CCCN 78)	Peru, Tunisia
	Lead, other than waste and scrap, and lead articles (CCCN ex 78)	Ghana
	Lead, unwrought and waste (CCCN 78.01)	Argentina, Colombia
	Tubes and pipes of lead (CCCN 78.05.0100)	Colombia
	Other articles of lead (CCCN 78.06)	Turkey
License temporarily suspended	Other articles of lead (CCCN 78.06)	Brazil
Prior Import deposit	Lead and some articles thereof (CCCN 78.01), 78.05, 78.06)	EEC (Greece)
Restriction unspecified	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
State trading	Metallic ores, slag and ash (CCCN ex 26)	India
	Lead ore (CCCN ex 26.01)	Tunisia
	Lead and articles thereof other than manufactures under CCCN 78.06 (CCCN ex 78)	India
	Lead or lead alloy and articles thereof (CCCN ex 78)	Tunisia
Turnover tax	Metallic ores and concentrates (CCCN 26.01)	EEC (Italy)
Domestic price measures	Metallic ores and concentrates (CCCN ex 26.01)	Brazil
Technical standards and regulations	Lead and plumiferus materials (CCCN ex 26.03, ex 28.27, ex 28.30, ex 28.38, ex 28.39, ex 28.40 ex 28.48)	Sweden

[1]The relevant sections of provincial legislation have never been used

[2]Conditionally liberalized imports (LBO) carried out within an established right to payment

Source: NTM/W/17/Add.2; NTM/W/17/Add.2/Corr.1
NTM/W/6/Rev.3; NTM/W/6/Rev.3(Add.1-4
NTM/INV/I-V; NTM/INV/I-V/Add.1-13
TBT/W/68/Rev.1
L/5945/Rev.1; L/6126

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING LEAD AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.07	2607.00	Lead ores and concentrates.	2% U	Free B	4.8% B A: Free	Free B	Free B	Free B	Free B	Free B	Free B	Free B	1.7cts/kg on Pb content+ 0.7cts/kg on Zn content
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
	2620.20	- Containing mainly lead	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	0.7cts/kg on Cu content + 0.7 cts/kg on Pb content
26.21	2621.00	Other slag and ash, including seaweed ash (kelp).	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
28.24		Lead oxides; red lead and orange lead.											
	2824.10	- Lead monoxide (litharge, massicot)	2% U	15% B	12.5% B	10.5% B	3.8% B	7% B A:5.6%	Free B	Free B	Free B	SwF2.20/100kg B	2.4% 9)
	2824.20	- Red lead and orange lead	2% U	15% B	10.5% B	10.5% B	3.8% B	7% B A:5.6%	Free B	Free B	Free B	SwF8.00/100kg B	3.4% 10)
	2824.90	- Other	2% U	15% B	12.5% B	10.5% B	3.8% B	3.7% B 7) A:3%	Free B	Free B	Free B	SwF2.30/100kg B+	4.8%,15%
28.25		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.											
	2825.10	- Hydrazine and hydroxylamine and their inorganic salts	2% U	Free B	Free B	6% B	Free B	5.8% B 7) A:4.6%	Free B	7.7% B	Free B,3.8% B, A:Free	SwF1.50/100kg B	3.7%
	2825.90	- Other	2% U	Free B	Free B	11% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B	SwF1.50/100kg B	3.7%
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.39	-- Other	2% U	Free B	12.5% B	6% B	Free B	4.9% B 7) A:3.9%	Free B	Free B	Free B	SwF2.20/100kg B	3.7%
		- Chloride oxides and chloride hydroxides:											
	2827.49	-- Other	2% U	Free B	12.5% B	3.2% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.50/100kg B	17%
		- Bromides and bromide oxides:											
	2827.59	-- Other	2% U	Free B	Free B	6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B	SwF2.50/100kg B	3.6%
	2827.60	- Iodides and iodide oxides	2% U	Free B	12.5% B	6.9% B	Free B	4.9% B 7) A:3.9%	Free B	Free B	Free B	SwF2.50/100kg B	4.2%
28.29		Chlorates and perchlorates; bromates and perbromates; iodates and periodates.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B 7) A:3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8%,6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B,5.8% B	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.90	- Other	2% U	Free B	Free B	6.9% B	Free B	3.7% B 7) A:3%	Free B	Free B	Free B	SwF0.50/100kg B	3%

28.33		Sulphates; aluss; peroxosulphates (persulphates).												
		- Other sulphates:												
	2833.29	-- Other	12% U	Free B	19.2% B	14.6% B	Free B	14.9% B A:3.9%		Free B	Free B	13.2% B	SwF1.50/100kg B	13.7%
	2833.40	- Peroxosulphates (persulphates)	12% U	Free B	19.2% B	16.3% B	Free B	14.9% B A:3.9%		Free B	Free B	Free B	SwF2.40/100kg B	13.1%
28.34		Nitrites; nitrates.												
	2834.10	- Nitrites	12% U	Free B	18% B	17% B	Free B	14.9% B A:3.9%	7)	Free B	Free B	15.8% B A:Free	SwF1.10/100kg B	13.1%
		- Nitrates:												
	2834.29	-- Other	12% U	Free B	12.5% B	16.9% B	Free B	14.9% B A:3.9%	7)	Free B	Free B	Free B	SwF1.50/100kg B	13.5%
28.36		Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate.												
	2836.70	- Lead carbonate	12% U	19% B	12.5% B	18% B	11% B A: Free	14.9% B A:3.9%	7)	Free B	Free B	Free B	SwF9.00/100kg B	10.5%
28.37		Cyanides, cyanide oxides and complex cyanides.												
		- Cyanides and cyanide oxides:												
	2837.19	--Other	Free U	Free B	Free B	16.2% B	Free B	14.9% B A:3.9%		Free B	Free B	Free B	SwF0.75/100kg B	Free
	2837.20	- Complex cyanides	Free U	Free B	Free B	12% B	Free B	14.9% B A:3.9%	7)	Free B	Free B	Free B	SwF0.75/100kg B	11.7%
28.38	2838.00	Fulminates, cyanates and thiocyanates.	12% U	Free B	12.5% B	16.3% B	Free B	14.9% B A:3.9%		Free B	Free B	Free B	SwF1.50/100kg B	13.1%
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.												
	2842.10	- Double or complex silicates	12% U	Free B	Free B	16% B	Free B	14.9% B A:3.9%		Free B	Free B	Free B	SwF2.00/100kg B	13.7%
	2842.90	- Other	12% U	Free B	Free B	16.2% B	Free B	14.9% B A:3.9%		Free B	Free B	Free B	SwF2.00/100kg B	13.3%
78.01		Unwrought lead.												
	7801.10	- Refined lead	12% U	14% B	Free 0, 10.2% B	13.5% B	Free B	8yen/kg B (A: 8)		Free B	Free B	Free B	SwF0.20/100kg B	13.5% on the value of the Pb content 4)
		- Other:												
	7801.91	-- Containing by weight antimony as the principal other element	12% U	14% B	16.8% B, 10.2% B	13.5% B	Free B	16.5% or 5.80yen/kg,whichever is the greater A:5.2% or 4.64yen/kg,whichever is the greater		Free B	Free B	Free B	SwF0.20/100kg B	13.5% on the value of the Pb content 4)
	7801.99	-- Other	12% U	14% B	10.2% B	Free-3.5% B6)	Free B	Alloyed: 14.7% or 8 yen/kg B, whichever is the greater, A:3.8% or 5.12yen/kg whichever is the greater; Other: 16% B (A: 8) 8yen/kg B (A: 8)		Free B; 14% U(solder)8	Free B	Free B	SwF0.20/100kg B	13.5% on the value of the Pb content 4)
78.02	7802.00	Lead waste and scrap.	12% U	Free B	Free B	Free B	Free B	13.2% B A:2.6%		Free B	Free B	Free B	SwF0.20/100kg B	12.3% on the value of the Pb content 4)
78.03	7803.00	Lead bars, rods, profiles and wire.	12% U	16% B	14%-10.2% B	18% B	Free B	15.6% B A:4.6%		5% B; 14% U(solder)8	Free B	Free B	SwF8.00/100kg B	11.2%

78.04		Lead plates, sheets, strip and foil; lead powders and flakes.												
		- Plates, sheets, strip and foil:												
	7804.11	-- Sheets, strip and foil of a thickness (excluding any backing) not exceeding 0.2 mm	2% U	8% B	10.2% B 6)	8% B	Free B	6.5% B A:5.2%	5% B; 25% B,A:22% *	Free B	Free B	SwF21.00/100kg B	2.2%
	7804.19	-- Other	2% U	7% B	4%-10.2% B	8% B	Free B	8.2% B A:6.6%	5% B; 25% B,A:22% *	Free B	Free B	SwF5.00/100kg B	3.4%
	7804.20	- Powders and flakes	2% U	8% B	4%,10.2% B	2.2% B	Free B	6.5% B A:5.2%	Free B	Free B	Free B	SwF2.00/100kg B	11.25%
78.05	7805.00	Lead tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).	2% U	7% B	10.2% B	9% B	Free B	7.2% B A:5.8%	5% B	Free B	Free B	SwF6.00/100kg B	2%
78.06	7806.00	Other articles of lead.	20% U	8% B	10.2% B	6%,8% B	5.1% B	5.8% B A:4.6%	50% B * A:25.5%	3.2% B	Free B,3.2% B, 3.8% B	SwF10.00/100kg B, SwF18.00/100kg B	3.9%

B: Bound rate.
U: Unbound rate.
A: Applied rate.
1) Australian tariff rates indicate rates stated in the Combined Australian Customs Tariff Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
3) The Harmonised System comes into force 1st January 1989. The United States will present its Schedule based on the HS at a later stage.
4) Duty on unwrought lead other than lead buillon, temporarily reduced to 3% on the value of the lead content but not less than 2.34cts/kg on lead content.
5) 780199.10: Entry under this sub-heading subject to conditions laid down in the relevant Community provisions.
6) 780411.10 - Sheets, strip and foil of a thickness not exceeding 0.2 mm,of lead-tin alloys, whether or not containing antimony, applied rate: Free.
7) These items come under the Poisonous and Deleterious Substance Control Law(except for trilead tetroxide).
8) Under the Japanese sliding tariff system, tariff duties increase/decrease with the decrease/increase in prices of refined lead.
9) Duty on litharge temporarily increased.
10) Duty on red lead may be modified.

N I C K E L

TABLE 1

WORLD PRODUCTION OF NICKEL, 1960-1986

(in thousand metric tons metal content)

	Mine Production											Smelter Production (1)										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	342	437	663	678	752	673	740	665	749	791	783	325	414	585	643	689	663	750	686	756	769	757
Developing countries and territories of which:	69	95	198	209	236	251	257	226	243	271	267	28	42	53	96	119	114	115	111	129	140	140
Botswana	-	-	-	-	6	16	15	18	19	20	19	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	1	3	4	3	3	4	11	13	13	14	-	2	2	2	2	2	2	11	13	13	14
Colombia	-	-	-	-	-	-	-	16	16	14	19	-	-	-	-	-	-	-	13	16	11	19
Cuba(2)	14	29	37	35	37	32	38	39	33	34	35	14	26	18	17	18	19	20	21	18	16	17
Dominican Rep.(3)	-	-	-	30	27	25	15	22	27	28	22	-	-	-	30	27	25	16	22	27	28	22
Guatamala	-	-	-	-	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	2	11	16	15	36	40	41	48	48	67	-	-	-	-	-	4	4	5	5	5	4
New Caledonia(4)	53	61	138	113	129	80	87	46	58	72	65	11	16	27	36	53	30	33	22	29	36	33
Philippines(5)	-	-	-	-	9	33	35	20	16	28	12	-	-	-	-	9	19	23	6	3	15	3
Yugoslavia	-	-	-	-	-	-	-	2	2	3	3	-	-	-	-	-	-	-	1	7	3	3
Zimbabwe	-	-	9	11	9	19	14	11	11	11	11	-	-	5	11	9	15	15	10	10	11	16
Taiwan	2	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	2	9
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Developed countries of which:	211	256	347	342	373	254	316	239	305	317	312	235	286	402	404	410	365	448	357	406	408	396
Australia	-	-	30	40	76	70	74	77	77	86	78	-	-	14	20	33	39	35	42	39	41	42
Austria*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2
Canada	195	235	277	249	242	126	185	125	174	170	181	127	160	189	158	158	84	152	96	121	119	124
EEC:(6)	-	-	9	14	15	15	14	13	16	16	10	46	49	57	61	64	36	43	41	43	41	49
Germany,F.R.	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	10	8	11	10	11	3	10	5	5	7	8
Greece(3)	-	-	9	14	15	15	14	13	16	16	10	-	-	9	14	15	15	14	13	16	16	10
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	34	40	37	37	39	19	19	23	22	18	31
Finland	2	3	5	6	6	6	6	5	7	9	12	-	3	4	6	6	11	13	15	15	16	18
Japan	-	-	-	1	-	1	1	-	-	1	1	30	32	38	43	37	31	37	29	36	37	38
South Africa	3*	5	12	19	21	25	26	19	22	29	29	1*	3*	9*	15	14	18	19	19	20	24	28
United States(7)	11	12	14	13	13	11	10	-	9	6	1	12	13	14	13	20	40	40	31	41	33	2
Centrally-planned economies, of which:	62	87	119	127	144	169	167	200	201	203	204	62	86	130	144	160	184	187	218	221	221	221
Albania	*	4	5	6	6	8	8	9	10	10	10	-	-	-	-	-	4	4	4	4	4	4
China,P.R.*	-	-	-	7	8	11	11	17	17	19	22	-	-	-	7	8	11	11	16	17	20	22
Czechoslovakia*	-	-	-	-	-	-	-	-	-	-	-	-	1	2*	3	3	2	2	3	4	4	4
Germany,D.R.	-	1	2	2	2	2	3	2	2	2	2	-	1*	2*	2*	3*	3*	3*	3	3	3	3
Poland	1	1	1*	1*	1*	1*	1*	-	-	-	-	1	2	1*	2	2	2	2	-	-	-	-
USSR*	58	80	110	111	125	145	143	172	172	172	170	58	80	124	130	143	160	165	192	193	190	188
Others*	2	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

(1) Primary nickel and nickel contained in ferro-nickel, nickel oxide sinter and monel metals smelter directly from ores
(2) Smelter production figures indicate nickel content in oxide sinter
(3) Nickel content in ferro-nickel (smelter)
(4) Since 1973 figures of mining production indicate the nickel content only, any co-content being excluded. Nickel content of ferro nickel, nickel matte and exported ores are totalled as follows:

	1973	1975	1979	1980	1983	1984	1985	1986	
Smelter Products	57.2	71.1	42.6	48.1	26.6	34.4	44.2	42.2	(in thousand metric tons)
Exported ores and concentrates	50.6	43.3	38.5	36.9	19.9	24.6	26.3	19.7	

(5) Excluding mixed nickel-cobalt sulphides (smelter)
(6) For comparative purposes total figures for the EEC include twelve member states for the whole period
(7) Mining production figures indicate recovered nickel content in ferro-nickel and as by-product in copper refineries.

* Figures based on estimates
(-) nil or less than 500 metric tons

Source: Metall Statistik, Metallgesellschaft AG, various issues.

TABLE 2

WORLD PRODUCTION OF NICKEL, 1960-1986

(as percentage of world production)

	Mine Production											Smelter Production (1)										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries and territories of which:	20.2	21.7	29.9	30.8	31.3	37.2	34.7	34.0	32.4	34.3	34.1	8.6	10.1	9.1	14.9	17.3	17.2	15.3	16.2	17.1	18.2	18.5
Botswana	-	-	-	-	0.8	2.4	2.0	2.7	2.5	2.5	2.4	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	0.2	0.4	0.6	0.4	0.4	0.5	1.7	1.7	1.6	1.8	-	0.2	0.3	0.3	0.3	0.3	0.3	1.6	1.7	1.7	1.8
Colombia	-	-	-	-	-	-	-	2.4	2.1	1.8	2.4	-	-	-	-	-	-	-	1.9	2.1	1.4	2.5
Cuba(2)	4.1	6.6	5.6	5.2	4.9	4.7	5.1	5.9	4.4	4.3	4.5	4.3	6.3	3.1	2.6	2.6	2.9	2.7	3.1	2.4	2.1	2.2
Dominican Rep.(3)	-	-	-	4.4	3.6	3.7	2.0	3.3	3.6	3.5	2.8	-	-	-	4.7	3.9	3.8	2.1	3.2	3.6	3.6	2.9
Guatemala	-	-	-	-	-	0.9	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0.5	1.7	2.4	2.0	5.3	5.4	6.2	6.4	6.1	6.6	-	-	-	-	-	0.6	0.5	0.7	0.7	0.7	0.5
New Caledonia(4)	15.5	14.0	20.8	16.7	17.1	11.9	11.8	6.9	7.7	9.1	8.3	3.4	3.9	4.6	5.6	7.6	4.6	4.4	3.2	3.6	4.7	4.4
Philippines(5)	-	-	-	-	1.2	4.9	4.7	3.0	2.1	3.5	1.5	-	-	-	-	1.3	2.9	3.1	0.9	0.4	2.0	0.4
Yugoslavia	-	-	-	-	-	-	-	0.3	0.3	0.4	0.4	-	-	-	-	-	-	-	0.1	0.9	0.4	0.4
Zimbabwe	-	-	1.4	1.6	1.2	2.8	1.9	1.7	1.5	1.4	1.4	-	-	-	1.7	1.3	2.3	2.0	1.5	1.3	1.4	2.1
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.3	1.2
Other	0.6	0.2	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-
Developed countries of which:	61.7	58.6	52.3	50.5	49.6	37.7	42.7	35.9	40.7	39.8	39.8	72.3	69.1	68.7	62.8	59.5	55.1	59.7	52.0	53.7	53.1	52.3
Australia	-	-	4.5	5.9	10.1	10.4	10.0	11.6	10.3	10.9	10.0	-	-	0.2*	3.1	4.8	5.9	4.7	6.1	5.2	5.3	5.5
Austria*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	0.3	0.3
Canada	57.0	53.8	41.8	36.7	32.1	18.7	25.0	18.8	23.2	21.5	23.1	39.1	38.6	32.3	24.6	22.8	12.7	20.3	14.0	16.0	15.5	16.4
EEC:(6)	-	-	1.4	2.1	2.0	2.2	1.9	2.0	2.1	2.0	1.3	14.2	11.8	9.7	9.5	9.2	5.4	5.7	6.0	5.7	5.3	6.5
Germany,F.R.	-	-	-	-	-	-	-	-	-	-	-	3.1	1.9	1.9	1.6	1.6	0.5	1.3	0.7	0.7	0.9	1.1
France	-	-	-	-	-	-	-	-	-	-	-	3.1	1.9	1.9	1.6	1.6	0.5	1.3	0.7	0.7	0.9	1.1
Greece(3)	-	-	1.4	2.1	2.0	2.2	1.9	2.0	2.1	2.0	1.3	-	-	1.5	2.2	2.2	2.3	1.9	1.9	2.1	2.1	1.3
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	10.5	9.7	6.3	5.8	5.6	2.9	2.5	3.4	2.9	2.3	4.1
Finland	0.6	0.7	0.7	0.9	0.8	0.8	0.8	0.8	0.9	1.1	1.5	-	0.7	0.7	0.9	0.9	1.7	1.7	2.2	2.0	2.1	2.4
Japan	-	-	-	-	-	-	-	-	-	-	-	5.8	6.3	15.4	13.7	11.3	4.7	4.9	4.2	4.8	4.8	5.0
Norway	-	-	-	0.1	-	0.1	0.1	-	-	0.1	0.1	9.2	7.7	6.5	6.7	5.3	4.7	4.9	4.2	4.8	4.8	5.0
South Africa	0.9	1.1	1.8	2.8	2.8	3.7	3.5	2.9	2.9	3.7	3.7	0.3*	0.7*	1.5*	2.3	2.0	2.7	2.4	2.8	2.6	3.1	3.7
United States(7)	3.2	2.7	2.1	1.9	1.7	1.6	1.4	-	1.2	0.8	0.1	3.7	3.1	2.4	2.0	2.9	6.0	5.3	4.5	5.4	4.3	0.3
Centrally-planned economies, of which:	18.1	19.9	17.9	18.7	19.1	25.1	22.6	30.1	26.8	25.7	26.1	19.1	20.8	22.2	22.4	23.2	27.8	24.9	31.8	29.2	28.7	29.2
Albania	-	0.9	0.7	0.9	0.8	1.2	1.1	1.4	1.3	1.3	1.3	-	-	-	-	-	0.6	0.5	0.6	0.5	0.5	0.5
China,P.R.*	-	-	-	1.0	1.1	1.6	1.5	2.6	2.3	2.4	2.8	-	-	-	1.1	1.2	1.7	1.5	2.3	2.2	2.6	2.9
Czechoslovakia*	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.3*	0.5	0.4	0.5	0.3	0.4	0.5	0.5	0.5
Germany,D.R.	-	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	-	0.2*	0.3*	0.3*	0.4*	0.5*	0.4*	0.4	0.4	0.4	0.4
Poland	0.3	0.2	0.1	0.1*	0.1*	0.1*	0.1*	-	-	-	-	0.3	0.5	0.2*	0.3	0.3*	0.3*	0.3*	-	-	-	-
USSR*	17.0	18.3	16.5	16.2	16.6	21.5	19.3	25.9	23.0	21.7	21.7	17.3	19.3	21.2	20.2	20.6	24.1	22.0	28.0	25.5	24.7	24.8
Other*	0.6	-	-	-	-	-	-	-	-	-	-	0.6	0.2	-	-	-	-	-	-	-	-	-

(1) Primary nickel and nickel contained in ferro-nickel, nickel oxide sinter and monel metals smelted directly from ores
(2) Smelter production figures indicate nickel content in oxide sinter
(3) Nickel content in ferro-nickel (smelter)
(4) Since 1973 figures of mining production indicate the nickel content only, any co-content being excluded. Nickel content of ferro-nickel, nickel matte and exported ores are totalled as follows:

	1973	1975	1979	1980	1983	1984	1985	1986	
Smelter Products	57.2	71.1	42.6	48.1	25.6	37.3	44.2	42.2	(in thousand metric tons)
Exported ores and concentrates	50.6	42.3	38.5	36.9	19.9	21.5	26.3	19.7	

(5) Excluding mixed nickel-cobalt sulphides (smelter)
(6) For comparative purposes total figures for the EEC include twelve member states for the whole period
(7) Mining production figures indicate recovered nickel content in ferro-nickel and as by-product in copper refineries.

* Figures based on estimates
(-) nil or less than 500 metric tons

Source: Metall Statistik, Metallgesellschaft, various issues.

TABLE 3

WORLD CONSUMPTION OF NICKEL (1) 1960-1986

	in thousand metric tons											as a percentage of world consumption										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	293	427	575	653	576	745	711	698	789	778	781	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries	3	3	7	14	22	34	40	46	58	60	77	1.0	0.7	1.2	2.1	3.8	4.6	5.6	6.6	7.4	7.7	9.9
of which:																						
Argentina	-	-	-	1	1	1	1	1	1	1	1	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Brazil	-	1	2	5	4	8	11	7	10	11	13	0.0	0.2	0.3	0.8	0.7	1.1	1.5	1.0	1.3	1.4	1.7
India	-	-	2	1	3	6	7	13	16	14	16	0.0	0.0	0.3	0.2	0.5	0.8	1.0	1.9	2.0	1.8	2.0
Hong Kong	-	-	-	-	-	1	1	1	1	1	2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
Korea, Rep. of (2)	-	-	-	-	-	1	3	3	3	3	7	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.4	0.4	0.9
Mexico	-	-	1	1	3	5	3	1	4	3	1	0.0	0.0	0.2	0.2	0.5	0.7	0.4	0.1	0.5	0.4	0.1
Romania *	-	-	-	3	5	6	6	7	9	11	10	0.0	0.0	0.0	0.5	0.9	0.8	0.8	1.0	1.1	1.4	1.3
Turkey	-	-	-	-	-	-	-	1	1	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Yugoslavia	-	-	1	1	2	2	2	2	3	5	5	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.6	0.6
Other (3)	3	2	1	2	4	4	6	10	10	10	21	1.0	0.5	0.2	0.3	0.7	0.5	0.8	1.4	1.3	1.3	2.7
Developed Countries	216	314	443	500	393	529	491	457	534	519	503	73.7	73.5	77.0	76.6	68.2	71.0	69.1	65.5	67.7	66.7	64.4
of which:																						
Australia(incl. Oceania)	2	2	4	5	2	5	5	3	4	5	5	0.7	0.5	0.7	0.8	0.3	0.7	0.7	0.4	0.5	0.6	0.6
Austria	3	3	6	5	4	5	5	4	5	5	5	1.0	0.7	1.0	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6
Canada	4	8	15	11	11	8	10	8	9	9	10	1.4	1.9	2.6	1.7	1.9	1.1	1.4	1.1	1.1	1.2	1.3
EEC (4)	80	101	140	149	130	193	171	154	188	179	191	27.3	23.7	24.3	22.8	22.6	25.9	24.1	22.1	23.8	23.0	24.5
Germany, F.R.	23	31	40	55	43	76	68	63	78	75	77	7.8	7.3	7.0	8.4	7.5	10.2	9.6	9.0	9.9	9.6	9.9
Belgium-Lux.	2	1	3	4	4	5	4	5	6	7	7	0.7	0.2	0.5	0.6	0.7	0.7	0.6	0.7	0.8	0.9	0.9
France	19	21	36	30	32	39	38	32	39	32	32	6.5	4.9	6.3	4.6	5.6	5.2	5.3	4.6	4.9	4.1	4.1
United Kingdom	28	37	37	31	27	35	23	22	26	25	27	9.6	8.7	6.4	4.7	4.7	4.7	3.2	3.8	3.3	3.2	3.5
Italy	7	9	20	23	17	27	27	22	28	29	30	2.4	2.1	3.5	3.5	3.0	3.6	3.8	3.2	3.5	3.7	3.8
Netherlands	1	1	1	1	1	1	1	1	1	2	3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.4
Spain	-	1	3	5	5	9	9	8	9	8	14	0.0	0.2	0.5	0.8	0.9	1.2	1.3	1.1	1.1	1.0	1.8
Other EEC	-	-	-	-	1	1	1	1	1	1	1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Finland	1	-	-	-	-	7	8	10	13	15	13	0.3	0.0	0.0	0.0	0.0	0.9	1.1	1.4	1.6	1.9	1.7
Japan	18	29	99	114	83	132	124	118	145	136	127	6.1	6.8	17.2	17.5	14.4	17.7	17.4	16.9	18.4	17.5	16.3
Norway	-	1	1	1	1	-	-	-	-	-	-	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
South Africa	-	-	4	5	5	3	4	6	8	9	9	0.0	0.0	0.7	0.8	0.9	0.4	0.6	0.9	1.0	1.2	1.2
Sweden	9	13	23	27	22	22	20	16	20	17	17	3.1	3.0	4.0	4.1	3.8	3.0	2.8	2.3	2.5	2.2	2.2
Switzerland	1	1	2	1	2	1	1	1	1	1	1	0.3	0.2	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1
United States (5)	98	156	149	182	133	153	143	137	141	143	125	33.4	36.5	25.9	27.9	23.1	20.5	20.1	19.6	17.9	18.4	16.0
Centrally Planned Economies, of which:	74	110	125	139	161	182	180	195	197	199	201	25.3	25.8	21.7	21.3	28.0	24.4	25.3	27.9	25.0	25.6	25.7
Bulgaria *	-	-	-	-	1	1	1	2	1	1	1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.3	0.1	0.1	0.1
China, P.R. *	-	-	-	18	18	19	18	18	18	18	19	0.0	0.0	0.0	2.8	3.1	2.6	2.5	2.6	2.3	2.3	2.4
Czechoslovakia	-	-	-	7	9	10	10	10	10	11	11	0.0	0.0	0.0	1.1	1.5	1.3	1.4	1.4	1.3	1.4	1.4
Germany, D.R. *	-	-	-	8	9	11	10	9	10	10	11	0.0	0.0	0.0	1.2	1.6	1.5	1.4	1.3	1.3	1.3	1.4
Hungary *	-	-	-	1	2	2	2	3	3	3	4	0.0	0.0	0.0	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5
Poland *	-	-	-	5	7	9	8	7	7	8	8	0.0	0.0	0.0	0.8	1.2	1.2	1.1	1.0	0.9	1.0	1.0
USSR *	74	110	125	100	115	130	130	145	147	147	146	25.3	25.8	21.7	15.3	20.0	17.4	18.3	20.8	18.6	18.9	18.7
Other *	-	-	-	-	-	-	1	1	1	1	1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

(1) Including nickel content in ferro-nickel and nickel oxide sinter; since 1973 excluding consumption of nickel chemicals.
(2) Figures for 1973 included in other developing countries consumption.
(3) Including Taiwan, Thailand and other Asian, African and American developing countries.
(4) For comparative purposes total figure for the EEC include twelve member states for the whole period.
(5) Figures for 1965 and 1970 provided by the US-Bureau of Mines while those indicated by International Nickel Co. were 167.8 and 149.7 thousand metric tons respectively. From 1973 to 1978 reported consumption is indicated; beginning 1979 apparent consumption.
* Figures based on estimates.
\- nil or less than 500 metric tons or 0.1 percent of world consumption.

Source: Metall Statistik, Metallgesellschaft AG, various issues.
------ World Metal Statistics, World Bureau of Metal Statistics, February 1988.

TABLE 4

Direction of Trade by Main Suppliers, 1986
(in thousand metric tons)

Exporting countries[1]	Ores and concentrates		Matte,speiss and other intermediate products of nickel metallurgy		Fero-nickel, nickel oxide sinter, unwrought nickel and alloys	
Australia[2](1984/85)	Total (gross weight)	3.9[3]	Total	n.a.[4]	Total	n.a.[5]
	United States	3.8	Canada		EEC	
	Other	0.1	EEC		India	
			Finland		Finland	
			India		Japan	
			Japan		United States	
			Sweden			
			United States			
Brazil (1985)					Total	11.6
					Argentina	0.2
					EEC	8.5
					Switzerland	2.1
					United States	0.5
					Other	0.3
Canada			Total (Ni content)	57.8[6]	Total	99.9
			EEC(United Kingdom)	28.4	EEC	23.4
			Norway	29.3	United States	56.0
			Other	0.1	Other	20.5
Colombia[7]					Ferro-nickel	
					Total(Ni content)	19.5
Cuba (1985)			Total	28.9		
			Matte and speiss		Nickel-oxide sinter, (Ni content)	
			Total (Ni content)	2.1	Total	6.6
			Austria	0.4	Czechoslovakia	1.2
			EEC (Italy)	1.7	EEC(Italy,Germany,F.R)	2.2
			Oxide and hydroxide[8]		India	0.3
			Total (Ni content)	9.2	Germany, D.R.	0.6
			Czechoslovakia	2.3	Romania	0.4
			EEC	1.4	Hungary	0.2
			USSR	3.0	Korea, D.R.	0.3
			Germany,D.R.	1.0	Yugoslavia	0.3
			Other	1.5[8]	Austria	0.4
			Nickel Sulfide(Ni content)		Sweden	0.3
			Total	17.6	Other	0.4
			USSR	17.6		
Dominican Rep.					Total (Ni content)	22.0
					EEC(Netherlands)	7.2
					United States	8.2
					Other	6.6
EEC			Total (Ni content)	0.6	(i) Total(Ferro-nickel) (Ni content)	16.7
			Sweden	0.4	Austria	0.9
			Other	0.2	Finland	7.4
					Sweden	8.3
					(ii) Total(nickel,alloy) (unwrought)	13.7
					Austria	0.5
					Czechoslovakia	0.7
					Hong Kong	0.5
					India	0.3
					Japan	4.0
					Korea,Rep.of	0.8
					Sweden	3.1
					Turkey	0.1
					United States	2.5
					Other	1.2
Finland					Total (Ni content)	15.1
					Czechoslovakia	0.3
					EEC	6.3
					Hong Kong	0.5
					Japan	0.7
					Korea,Rep.of	0.4
					India	0.3
					Singapore	0.1
					USSR	0.6
					Switzerland	0.2
					United States	5.1
					Other	0.6
Indonesia	Total (Ni content)	27.6	Total (Ni content)	28.6	Total (Ni content)	4.1
	Japan	27.2	Total (gross weight)	49.8	EEC	n.a.
	Other	0.4	EEC(Netherlands,UK)	9.1	Japan	n.a.
			Japan	40.7		

Exporting countries	Ores and concentrates		Matte, speiss and other intermediate products of nickel metallurgy		Ferro-nickel, nickel oxide sinter, unwrought nickel and alloys	
Japan			Total (gross weight)	2.4	Total (Ni content)	7.3
			Taiwan	2.4	EEC	7.1
					Indonesia	0.1
					Other	0.1
New Caledonia	Total (Ni content)	18.9	Total (Ni content)	9.5	Total (Ni content)	32.6
	Japan	18.9	EEC (France)	9.5	EEC (France)	15.0
			Other	-	Other	17.6
Norway	Total (Ni content)	0.6			Total	37.9
	Finland	0.6			Argentina	0.2
					Australia	0.2
					Brazil	0.3
					Canada	1.8
					EEC	12.2
					Hong Kong	1.9
					Japan	2.7
					Singapore	0.4
					Sweden	0.7
					USSR	0.2
					United States	16.8
					Other	0.5
Philippines	Total (Ni content)	5.8			Total	2.5
	Japan	5.8			EEC	0.1
					United States	0.3
					Japan	0.4
					Other	1.7
South Africa[9] (1984)			Total	4.6	Total (Ni content)	13.1
			Norway	4.4	EEC	4.6
			EEC (Benelux)	0.2	Sweden	1.7
					United States	3.6
					Other	3.2
United States					Total	2.5
					Canada	0.5
					EEC (Netherlands)	-
					Other	2.0
USSR[10] 1984					Total	35.3
					Austria	0.4
					Czechoslovakia	4.2
					EEC	22.6
					Japan	5.5
					Finland	0.6
					Sweden	0.8
					Switzerland	0.1
					Yugoslavia	1.0

[1]Botswana has since 1985 been exporting most of its nickel-copper matte to Norway under an agreement with Falconbridge International of Bermuda - detailed trade information is not available. Smelter production was all matte in 1981 (18,278 tons), a combination of matte and pellets in 1982 and 1983 (17.756; 18,216) and all pellets in 1985 and 1986 (19,565; 18,974) respectively. Zimbabwe exports refined nickel products to Western Europe, and the United States - total exports in recent years are as follows: 1978 - 16,500 tons; 1979 - 13,900 tons; 1980 - 14,450 tons; 1981 - 11,700 tons; 1982 - 12,000 tons; 1983 - 16,240 tons; 1984 - 11,300 tons; 1985 - 10,900 tons; 1986 - 14,325 tons. Details of export destinations are not available.

[2]1986 (Mine production - 78,000 tons; refinery production 41,900 tons; local consumption 3,000 tons)

[3]Quantity exported of domestic production (1984/85)

[4]Value of exports ('000 A$) 259,971 (quantity and destination are country confidential). List of export markets based on importing sources.

[5]Value of exports ('000 A$) (quantity and destination are country confidential). List of export markets based on importing sources.

[6]Includes concentrates

[7]Since mining started in 1982 the annual ferro-nickel production estimated at between 11.5 and 20.0 thousand metric tons has been exported to Europe, Japan and the United States. 1986 production has been estimated at 19,500 tons.

[8]Includes contained cobalt

[9]Smelter production of South Africa (1986) is estimated at 27,800 tons and local consumption at 8,500. (World Metal Statistics - August 1987, World Bureau of Metal Statistics); Metallgesellschaft (1987)

[10]USSR exports to Western countries is estimated at about 24,000 tons in 1985, 33,000 tons in 1986 and 56,000 tons in 1987. Major export markets are the EEC, Japan, Sweden, Finland, Republic of Korea, Indonesia

Source: Canada, Dominican Republic, Finland, Japan, New Caledonia, Philippines, United States: Metal Statistics Bulletin, March 1987, World Bureau of Statistics, London.

Australia: Foreign Trade, Exports and Imports, 1984-85 Part I, Australian Bureau of Statistics.

Brazil: Comercio Exterior do Brazil, Vol.I, Exportacao, Banco do Brasil SA., CACEX; Minerals Year book 1985 (Bureau of Mines USA)

Cuba: Minerals Yearbook 1985 (Bureau of Mines, Ministry of Exterior USA); Anuario Estadistico de Cuba (1985)

EEC: Nimexe 1986, Analytical Tables of Foreign Trade, Exports, Eurostat

Indonesia: Exports of 1986 Biro Pusat Statistik; Mining Annual Review 1987, published by Mining Journal, London, June 1987.

Norway: Commodity Trade Statistics, Jan.-Dec. 1986, UN Statistical office.

South Africa: Minerals Yearbook 1986 - Vol.III - US Department of Interior Bureau of Mines.

USSR: British Geological Survey - World Mineral Statistics 1980-1984, Mining Annual Review 1987; World Metal Statistics 1988 (WBMS)

TABLE 5
Direction of Trade by Main Importers, 1986
(thousand metric tons)

Importing countries	Ores and concentrates		Matte,speiss and other intermediate products of nickel metallurgy		Ferro-nickel, nickel oxide sinter, unwrought nickel and alloys	
Canada	Total (Ni content)	1.1[1]	Total (Ni content)	8.3	Total (unwrought nickel and alloys)	3.5
	EEC	0.3	Australia	8.3	Norway	1.7
	United States	0.8			United States	1.5
					EEC	0.2
					Other	0.1
EEC	Total (Ni content)	3.9	Total[e] (Ni content)	51.1	(i) Total(ferro-nikel) (Ni content)	44.7
	Australia	0.9	Australia	10.0	Austria	0.3
	South Africa	n.a.	Canada	30.0	Brazil	1.7
			Cuba	0.5	Canada	0.4
			New Caledonia	9.7	Colombia	7.6
			Norway	0.3	Dominican Rep.	8.9
			Philippines	0.1	Indonesia	3.0
			South Africa	0.2	Japan	1.9
			United States	0.2	New Caledonia	20.2
					Yugoslavia	0.6
					Other	0.1
					(ii) Total (unwrought)	91.5
					Australia	10.5
					Canada	14.3
					Finland	5.4
					Norway	9.4
					Philippines	2.2
					South Africa	12.5
					United States	2.0
					USSR	29.0
					Zimbabwe	4.8
					Dominican Rep.	0.4
					Other	1.0
Finland	Total (gross weight)	11.0	Total (Ni content)	9.3	Total (unwrought)	2.7
	Norway	10.9	Australia	6.7	Canada	2.0
			Canada	2.6	USSR	0.5
					United States	0.2
India[2]	Total (gross weight)	18.9	Total (gross weight)	1.6	Total (ferro-nickel) (gross weight)	19.0
	EEC (Germany,F.R.,UK)	18.9	Canada	0.3	Australia	0.1
			Cuba	0.5	Austria	0.3
			EEC	0.4	Brazil	0.4
			Other	0.4	Colombia	3.9
					Dominican Rep.	1.4
					EEC	7.8
					New Caledonia	2.5
					Singapore	0.6
					United States	1.4
					Other	0.6
					Total (nickel and alloys unwrought)	9.2
					Australia	0.8
					Austria	0.1
					Canada	1.0
					EEC	2.1
					Finland	1.0
					Norway	1.3
					Singapore	0.1
					United States	0.3
					USSR	2.3
					Zimbabwe	0.1
					Other	0.1
Japan	Total (est.Ni content)	62.9	Matte,speiss(est.Ni content)		(i) Total(ferro-nickel (gross weight)	38.7
	Indonesia	27.3	Total	45.0	Colombia	2.9
	New Caledonia	24.6	Australia	16.5	Dominican Rep.	6.0
	Philippines	10.6	Indonesia	28.0	C.Dominica	1.6
	Papua-New Guinea	0.4	Albania	0.3	Indonesia	13.1
			Yugoslavia	0.1	New Caledonia	13.6
			Cuba	0.1	United States	0.2
					EEC	1.2
					Austria	0.1
					(ii) Total(refined nickel and alloys) (unwrought)	24.3
					Australia	2.8
					Canada	4.1
					China	1.6
					EEC	3.3
					Finland	0.8
					Norway	2.8
					Philippines	0.8
					South Africa	0.7
					United States	0.5
					USSR	3.7
					Zimbabwe	3.2

Importing countries	Ores and concentrates	Matte,speiss and other intermediate products of nickel metallurgy		Ferro-nickel, nickel oxide sinter, unwrought nickel and alloys	
Norway		Total (gross weight)	101.1	Total	n.g.
		Botswana	27.6		
		Canada	68.8		
		Australia	0.6		
		EEC	0.4		
		South Africa	1.4		
		United States	1.3		
		Brazil	0.4		
		Philippines	0.3		
		Zimbabwe	0.3		
Sweden		Total	3.5	Total (ferro-nickel) (gross weight)	13.4[3]
		Australia	3.5	Australia	0.1
				Colombia	1.7
				Dominican Rep.	2.5
				EEC	2.8
				New Caledonia	6.2
				Other	0.1
				Total (nickel,alloys)	10.3
				Australia	0.2
				Canada	2.3
				EEC	3.5
				Finland	0.6
				Norway	0.6
				Philippines	0.2
				South Africa	1.0
				United States	0.6
				USSR	0.5
				Zimbabwe	0.7
United States		Total (matte,speiss)	2.9[4]	(i) Ferro-nickel(Ni content)	
		Canada	2.9	Total	12.9
				Colombia	2.8
				Dominican Rep.	5.1
				Japan	0.4
				New Caledonia	4.5
				Other	0.1
				(ii) Refined Nickel	
				Total	100.6
				Australia	11.0
				Botswana	0.2
				China	0.5
				Canada	58.8
				EEC	2.9
				Finland	4.8
				Norway	15.1
				Philippines	1.3
				South Africa	2.9
				Switzerland	0.1
				Zimbabwe	2.6
				Other	0.3

[1] Excludes scrap.

[2] The Year April 1984 - March 1985.

[3] Ferro-nickel.

[4] Includes mixed oxide and nickel salts.

e = estimates; n.g. = negligible

Source: Canada, Finland, Japan: World Metal Statistics, August 1987, World Bureau of Metal Statistics; National Trade Statistics.
EEC: Nimexe 1986, Analytical Tables of Foreign Trade, Exports, Eurostat
Finland: World Metal Statistics 1987; National Trade Statistics
India: Monthly statistics of the Foreign Trade of India, Vol. II - Imports, March 1985, Directorate General of Commercial Intelligence and Statistics, Calcutta.
Japan: Exports and Imports/86. 12, Japan Tariff Association
Sweden: Utrikeshandel 1986, Kwartals Statistic Import, January-December, Statistika Cantralbyran
Norway: Commodity Trade Statistics: Jan.-Dec. 1986, UN Statistical Office; World Metal Statistics - 1988.

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN NICKEL AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Embargoes	Ash and residues containing metals or metallic compounds (CCCN 26.03)	Austria
	Nickel matte, unwrought nickel (CCCN ex 75.01)	Austria, Brazil, Colombia, Switzerland
	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Indonesia
	Nickel and articles thereof (CCCN ex 27)	Canada, Pakistan
	Wrought plates, etc. of nickel (CCCN ex 75.03)	EEC (United Kingdom)
Export restraints	Nickel matte, unwrought nickel (CCCN ex 75.01)	Austria, Dominican Republic, Korea, Rep.of, Malaysia, New Zealand, Norway
	Metallic ores and concentrates (CCCN ex 26.01)	Brazil, New Zealand
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Brazil, EEC, Finland
Export taxes	Nickel and articles thereof (CCCN ex 75)	Argentina, Canada
	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Guyana, Haiti, Philippines
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Switzerland
	Nickel matte, unwrought nickel (CCCN ex 75.01)	Switzerland
II. On imports		
Prohibition	Metallic ores and concentrates (CCC ex 26.01)	Pakistan
	Ash and residues containing metalls or metallic compounds (CCCN ex 26.03)	Pakistan
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	Malaysia
	Nickel waste (CCCN 75.01)	Bangladesh
	Tubes and pipes of nickel (CCCN 75.04)	Senegal
	Sanitary articles (CCCN 75.06.B)	Bangladesh
Quotas (unspecified)	Nickel ores and concentrates (CCCN 26.01)	Yugoslavia
	Chlorides and oxychlorides (CCCN ex 28.30)	Yugoslavia
	Nickel and articles thereof (CCCN ex 75)	Senegal
	Unwrought nickel (CCCN 75.01.3)	Yugoslavia
	Electro-plating anodes of nickel (CCCN 75)	Yugoslavia
Global quotas	Sulphates and persulphates (CCCN ex 28.38)	New Zealand
Quantitative restrictions licensing	Chlorides and oxychlorides (CCCN ex 28.27)	EEC (Italy)[1]
	Sulphates and persulphates (CCCN ex 28.38)	EEC(Germany Fed.Rep., Italy)[1]
	Metallic ores, slag and ash (CCCN ex 26)	India, Switzerland
	Nickel and articles thereof (CCCN ex 75)	India
Licensing (unspecified)	Sulphates and persulphates (CCCN ex 28.38)	Jamaica
	Metallic ores and concentrates (CCCN ex 26.01)	Malawi
	Carbonates and percarbonates (CCCN ex 28.42)	Malta
Liberal licensing	Metallic ores and concentrates (CCCN ex 26.01)	Korea, Rep. of, Switzerland
	Carbonates and percarbonates (CCCN ex 28.42)	Korea, Rep. of

Non-tariff measures	Product	Country(ies) maintaining the measure
Automatic licensing	Ash and residues containing metals or metallic compounds (CCCN 26.03)	South Africa
	Hydrazine, other inorganic bases and metallic oxides etc., (CCCN 28.28)	South Africa
	Sulphates and persulphates (CCCN ex 28.38)	Switzerland
	Nitrites and nitrates (CCCN ex 28.39)	South Africa, Switzerland
	Carbonates and percarbonates (CCCN ex 28.42)	South Africa, Switzerland
	Cyanides and complex cyanides (CCCN ex 28.43)	South Africa
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	South Africa, Switzerland
	Chlorides and oxychlorides (CCCN ex 28.30)	Switzerland
Non-automatic licensing	Metallic ores and concentrates (CCCN ex 26.01)	Argentina, Colombia, Japan, New Zealand, Peru, Sri Lanka, Tunisia, Zambia
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Argentina, Colombia, Sri Lanka, Tunisia, Turkey
	Other oxides and hydroxides (CCCN 28.28.02.99)	Colombia
	Nickel chloride (CCCN 28.30.00.01.11)	Argentina
	Other oxychlorides and hydroxychlorides (CCCN 28.30.00.02.99)	Argentina
	Nickel chloride (CCCN ex 28.30)	India
	Sulphides, polysulphides (CCCN ex 28.35)	Argentina, India, Sri Lanka
	Other sulphides (CCCN 28.35)	Colombia
	Nickel sulphate (CCCN 28.38.01.08)	Argentina, Tunisia
	Alums (CCCN 28.38.02.02.00)	Argentina
	Nickel sulphate (CCCN 28.38.01.09)	Colombia, India
	Nitrites and nitrates (CCCN ex 28.39)	Argentina, Bangladesh, India, Israel, Sri Lanka, Tunisia
	Nickel carbonate (CCCN ex 28.42)	India
	Carbonates and percarbonates (CCCN ex 28.42)	Argentina, Colombia, Peru, Turkey
	Cyanides and complex cyanides (CCCN ex 28.43)	India, Peru, Tunisia, Turkey
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	India, Turkey
	Unwrought nickel excluding matte, waste, scrap, (CCCN ex 75.01)	Ghana
	Nickel-based alloys (CCCN ex 75.01, 02)	India
	Wrought bars, rods etc., of nickel, nickel wire (CCCN 75.02)	Ghana, Nigeria
	Wrought plates etc., of nickel powder and waste (CCCN 75.03)	Ghana
	Tubes and pipes of nickel (CCCN 75.04)	Colombia, Ghana
	Electro-plating anodes of nickel (CCCN 75.05)	Ghana
	Other articles of nickel (CCCN 75.06)	Colombia, Ghana, Tunisia
	Perforated screens (CCCN 75.06)	India
License suspended	Nickel chloride (CCCN 28.30.20.00)	Brazil
	Tubes and pipes of nickel (CCCN 75.04 excluding 75.04.01.00; 02.00)	Brazil
	Other articles of nickel (CCCN 75.06)	Brazil

Non-tariff measures	Product	Country(ies) maintaining the measure
Restriction (unspecified)	Chlorides and oxychlorides (CCCN ex 28.30)	Indonesia
	Sulphates and persulphates (CCCN ex 28.38)	Indonesia
	Carbonates and percarbonates (CCCN ex 28.42)	Indonesia
	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
Quantitative restriction made effective through State trading operations	Sulphides, polysulphides (CCCN 28.35)	Sri Lanka
	Nitrites and nitrates (CCCN 28.39)	Sri Lanka
State-trading	Metallic ores, slag and ash (CCCN ex 26)	India
	Nickel matte, unwrought nickel (CCCN ex 75.01)	India
	Wrought bars, rods etc., of nickel (CCCN ex 75.02)	India
	Wrought plates etc., of nickel, powder and waste (CCCN 75.03)	India
	Tubes and pipes of nickel (CCCN 75.04)	India
	Electro-plating anodes of nickel (CCCN 75.05)	India
	Metallic ores and concentrates (CCCN ex 26.01)	Tunisia
Border tax adjustments	Metallic ores and concentrates (CCCN 26.01)	EEC (Italy)
Domestic price measure	Metallic ores and concentrates (CCCN ex 26.01)	Brazil
Surcharges port taxes, etc.	Metallic ores and concentrates (CCCN ex 26.01)	Austria
Testing/certification arrangements	Other articles of nickel (CCCN ex 75.06)	United States

[1]Quantitative restrictions applied on products originating in State-trading countries.

Source: NTM/W/17/Add.2; NTM/W/17/Add.1/Corr.1; NTM/W/6/Rev.4

Table 7

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING NICKEL AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.04	2604.00	Nickel ores and concentrates	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
	2620.90	- Other	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
28.25		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.											
	2825.40	Nickel oxides and hydroxides	2% U	Free B	Free B	Free B	Free B	7.2% B A: 5.8%	Free B	Free B	Free B	SwF1.50/100kg B	Free
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.35	-- Of nickel	2% U	Free B	12.5% B	10.4% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.20/100kg B	3.7%
28.29		Chlorates and perchlorates; bromates and perbromates; iodates and periodates.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B 6) A: 3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8%B-6.9%B	Free B	5.8% B A: 4.6%	Free B	Free B	FreeB,5.8%B	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.90	Other	2% U	Free B	Free B	6.9% B	Free B	3.7% B A: 3%	Free B	Free B	Free B	SwF0.50/100kg B	3%
28.33		Sulphates;alums; perosulphates (persulphates).											
		- Other sulphates:											
	2833.24		2% U	8% B	9.2% B	5% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B	SwF2.10/100kg B	3.2%
28.34		Nitrites; nitrates.											
	2834.10	-Nitrites	2% U	Free B	8% B	7% B	Free B	4.9% B A: 3.9%	Free B	Free B	5.8% B A:Free	SwF1.10/100kg B	3.1%
		-Nitrates:											
	2834.29	--Other	2% U	Free B	12.5% B	8% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF1.50/100kg B	3.5%
28.36		Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate.											
	2836.99	--Other	2% U	Free B	12.5% B	6.6%B, 8%B	11% B A: Free	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.40/100kg B	3.7%
28.37		Cyanides,cyanide oxides and complex cyanides.											
		-Cyanides and cyanide oxides:											
	2837.19	--Other	Free U	Free B	Free B	6.2% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF0.75/100kg B	Free
	2837.20	-Complex cyanides	Free U	Free B	Free B	12% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF0.75/100kg B	11.7%
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.											
	2842.10	-Double or complex silicates	2% U	Free B	Free B	6% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.00/100kg B	3.7%
	2842.90	-Other	2% U	Free B	Free B,	6.2% B	Free B	4.9% B	Free B	Free B	Free B	SwF2.00/100kg B	3.3%

										A: 5.4%							
75.01		Nickel mattes, nickel oxide sinters and other intermediate products of nickel metallurgy.															
	7501.10	- Nickel mattes	12%	U	Free	B	Free B	Free	B	Free B	Free B	Free	B	Free	B	Free	B	SwF0.25/100kg B	Free
	7501.20	- Nickel oxide sinters and other intermediate products of nickel metallurgy	12%	U	Free	B	Free B	Free	B	Free B	Free B; 181 yen/kg B; 7) 17.2% B A: 5.8%	Free	B	Free	B	Free	B	SwF0.25/100kg B	Free
75.02		Unwrought nickel.																	
	7502.10	- Nickel, not alloyed	12%	U	Free	B	Free B	Free	B	Free B	181yen/kg B 7)	Free	B	Free	B	Free	B	SwF0.25/100kg B	Free
	7502.20	- Nickel alloys	12%	U	Free	B	Free B	Free	B	Free B	Free 8-9% B A: 8.1%	Free	B	Free	B	Free	B	SwF0.25/100kg B	Free
75.03	7503.00	Nickel waste and scrap.	12%	U	Free	B	Free B	Free	B	Free B	Free B	Free	B	Free	B	Free	B	SwF0.25/100kg B	Free
75.04	7504.00	Nickel powders and flakes.	12%	U	6%	B	Free, 10.2% B	0.5%	B	Free B	Free B, 6% B, A:4.8%; 65yen/kg B A: 52yen/kg	Free	B	Free	B	Free	B	SwF0.40/100kg B	Free
75.05		Nickel bars, rods, profiles and wire.																	
	7505.11	- Bars, rods and profiles:	12%	U	7%	B	4.2%- 10.2% B 5)	4.4%	E	11.8% B	17.2% B A: 5.8%	5% B A: Free		Free	B	1.4%	B	SwF26.00,SwF34.00/ 100 kg B	3.7%-5.5%
	7505.12	-- Of nickel alloys	12%	U	7%	B	4.2%- 10.2% B 5)	4.4%	B	11.8% B	15.8% B A: 4.6%	5% B A: Free		Free	B	1.4%	B	SwF26.00,SwF34.00/ 100 kg B	3.7%-5.5%
		- Wire:																	
	7505.21	-- Of nickel, not alloyed	12%	U	7%	B	4.3%- 10.2% B 5)	4.4%	B	11.8% B	17.2% B A: 5.8%	Free 4)		Free	B	1.4%	B	SwF26.00,SwF34.00/ 100 kg B	3.7%,4.7%
	7505.22	-- Of nickel alloys	12%	U	7%	B	4.3%- 10.2% B 5)	4.4%	B	11.8% B	15.8% B A: 4.6%	Free 4)		Free	B	1.4%	B	SwF26.00,SwF34.00/ 100 kg B	3.7%,4.7%
75.06		Nickel plates, sheets, strip and foil.																	
	7506.10	- Of nickel, not alloyed	12%	U	6%	B	4.3% B, 10.2% B 5)	4.9%	B	Free B	Free, 17.2% B A: 5.8%	5% B A: Free		Free	B	1.4%	B	SwF25.00,SwF 100.00/100kg B	3.5%-4.7%
	7506.20	- Of nickel alloys	12%	U	6%	B	4.3% B, 10.2% B 5)	4.9%	B	Free B	15.8% B A: 4.6%	5% B A: Free		Free	B	1.4%	B	SwF25.00,SwF 100.00/100kg B	3.5%-4.7%
75.07		Nickel tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).																	
		- Tubes and pipes:																	
	7507.11	-- Of nickel, not alloyed	12%	U	6%	B	4.3% B, 10.2% B 5)	5.3%	B	11.8% B	17.2% B A: 5.8%	5% B A: Free		2.2%	B	1.4%	B	SwF27.00/100kg B	3%
	7507.12	-- Of nickel alloys	12%	U	6%	B	4.3% B, 10.2% B 5)	5.3%	B	11.8% B	16.5% B A: Free	5% B A: Free		2.2%	B	1.4%	B	SwF27.00/100kg B	3%
	7507.20	- Tube or pipe fittings	20%	U	6%	B	10.2% B	5.8%	B	11.8% B	16.5% B A: Free	5% B A: Free		2.2%	B	1.4%	B	SwF27.00/100kg B	3.6%
75.08	7508.00	Other articles of nickel.	12%	U	6%	B	Free- 11% B	4.6%	B	5% B	15.8% B 8) A: 4.6%	5% B A: Free,5%		2.5%	B	Free 13.2%	B, B	SwF80.00,SwF 110.00/100kg B	4.7%,5.5%

B - Bound rate. U - Unbound rate. A - Applied rate.

1) Australian tariff rates indicate rates stated in the Combined Australian Customs Tariff and Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department.
3) The Harmonised System comes into force 1st January 1989. The United States will present its Schedule based on the HS at a later stage.
4) This product shall be exempt from Normal Tariff customs duties which exceed the duties on such products under any Commonwealth Preference Tariff by more than 5 per cent ad valorem.
5) 7505.11.12 - Bars and rods of a maximum cross-sectional dimension exceeding 12.7 mm; 7505.12.12, 7505.12.31, 7505.21.21, 7505.22.21, 7506.10.10, 7506.20.10, 7507.11.10, 7507.12.10: Applied rate: Free.
6) These items are subject to the" Poisonous and Deleterious Substance Control Law".
7) A: 11.7% or 72.90 yen/kg, whichever is the less.
8) Commodity tax.

T I N

Table 1

World Production of Tin, 1960-1986
(in thousands of metric tons)

	Mine production (tin content)										Smelter Production (Primary)(4)									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	188.8	204.5	232.4	223.0	218.8	238.1	235.6	206.5	196.3	181.1	205.6	201.5	233.7	224.2	218.0	238.9	232.8	208.7	208.6	199.0
Developing countries, of which:	130.7	145.9	167.2	166.4	162.7	180.4	181.0	149.7	140.9	120.3	86.0	99.1	132.3	141.0	139.2	170.1	173.0	132.9	129.7	123.4
Argentina	0.1	0.5	2.2	0.4	0.5	0.4	0.6	0.3	0.5	0.3	0.1	0.1*	0.1*	0.1*	0.1*	0.1*	0.1*	0.3	0.2	0.4
Bolivia(1)	19.7	24.2	27.8	31.2	32.0	27.8	27.5	19.9	16.1	10.5	1.1	3.5	0.3	6.9	7.6	15.7	17.5	14.1	10.7	6.5
Brazil	1.6	1.7	3.0	3.6	4.5	6.6	6.9	20.0	26.5	25.4	1.3	1.8	3.1	5.0	6.6	10.1	8.8	18.9	24.3	24.4
Burma	1.0	0.7	0.3	0.6	0.4	1.2	1.1	1.9	1.6	1.4								0.7	0.5	1.0*
Burundi		0.1	0.1	0.1	0.1	–	–													
Indonesia	23.0	14.9	19.1	22.5	25.3	29.4	32.5	23.2	21.8	24.6	2.0	1.2	5.2	14.6	17.8	27.8	30.5	22.5	20.4	22.1
Korea, Rep.of	n.a.	n.a.	0.1	0.1	–	0.1	–	–	–	–	n.a.	n.a.	n.a.	n.a.	n.a.	0.5	0.4	1.2	1.6	1.5
Laos	0.4	0.3	1.4	0.7	0.5	0.6	0.6	0.6	0.6	0.4										
Malaysia	52.8	64.7	73.8	72.3	64.4	63.0	61.4	41.3	36.9	29.1	77.4	73.6	90.3	82.5	83.1	73.1	71.3	46.9	45.5	43.8
Mexico				0.3	0.5	0.0	0.1	0.4	0.4	0.6	0.4	0.5	0.5	0.9	1.0	1.3	1.4	1.5	1.5	2.2
Nigeria	7.8	9.7	8.0	5.8	4.7	2.8	2.5	1.3	0.8	0.1	–	9.5	8.1	6.0	4.7	2.9	2.7	1.3	1.0	0.1
Peru	n.a.	n.a.	n.a.	0.2	0.3	0.9	1.1	3.0	3.8	4.8										
Rwanda	1.3(2)	1.4	1.3	1.4	1.3	1.4	1.6	1.1	0.8	–	n.a.	n.a.	n.a.	–	–	–	–	–	–	–
Singapore	–	–	–	–	–	–	–	–	–	–	n.a.	n.a.	n.a.	–	–	4.0	4.0	3.5	4.0	0.5
Thailand	12.3	19.4	21.8	20.9	16.4	34.0	33.7	21.6	16.6	16.8	–	5.6	22.1	22.9	16.6	33.2	34.7	19.7	18.0	19.7
Zaire	9.1	6.3	6.5	5.4	4.6	3.3	3.2	2.9	2.2	1.9	2.5	1.8	1.4	1.0	0.7	0.5	0.5	0.1	0.1	0.1
Zimbabwe	0.6	0.5	0.6	0.6	1.0	0.9	0.9	1.2	1.2	1.0	n.a.	n.a.	n.a.	1.1	1.0	0.9	0.9	1.2	1.2	1.1
Other	1.0	1.5	1.2	0.5	6.2	8.0	7.3	11.4	11.0	3.4	1.2	1.5	1.2					1.0	0.7	–
Developed countries, of which:	6.9	9.4	15.0	19.9	19.5	20.8	20.3	18.1	16.9	18.3	68.4	53.2	51.2	46.1	39.5	32.1	25.8	36.4	37.1	33.2
Australia(3)	2.2	3.9	8.9	10.8	9.6	12.6	11.6	7.9	6.9	8.7	2.3	3.2	5.7	6.9	5.3	5.4	4.8	2.9	2.7	1.4
Canada				0.1	0.3	0.3	0.2	0.2	0.2	2.1										
EEC	2.2	2.5	2.6	4.9	5.3	3.4	4.0	5.7	6.0	4.0	50.1	46.3	39.4	31.6	25.0	19.3	14.5	24.6	26.2	24.3
Belgium-Luxembourg											8.1	4.3	4.3	3.7	4.6	2.2	2.8	–	–	–
France	–	0.5	0.3	0.3	0.1	–	–	–	–	–										
Germany, Fed.Rep.											0.8	1.5	1.2	1.0	1.3	2.5	0.6	0.4*	1.0*	0.4*
Netherlands											11.8	18.4	6.3	–	1.8	1.7	1.1	6.5	6.0	5.9
Spain	0.2	0.1	0.2	0.5	0.7	0.5	0.4	0.4	0.5	0.3	0.7	1.8	2.7	5.8	5.2	4.5	3.8	3.5	3.9	2.9
Portugal	0.8	0.6	0.4	0.5	0.4	0.2	0.3	0.3	0.3	0.2	0.6	0.6	0.4	0.7	0.5	0.4	0.4	0.4	0.5	0.2
United Kingdom	1.2	1.3	1.7	3.6	4.1	2.7	3.3	5.0	5.2	4.3	28.1	18.7	24.5	20.4	11.6	8.0	5.8	13.8	14.8	14.9
Japan	0.9	0.9	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.5	1.7	1.6	1.4	1.4	1.2	1.3	1.3	1.4	1.4	1.3
South Africa (incl. Namibia)	1.6	2.1	2.7*	3.3	3.6	3.7	3.9	3.2	3.2	2.9	n.a.	n.a.	n.a.	1.6	1.6	1.6	2.2	2.4	2.5	1.9
United States						0.1	0.1	0.1	0.1	0.1	14.3	3.1	4.7	4.6	6.4	4.5	3.0	5.1	4.3	4.3
Centrally-planned economies, of which:	51.2	49.2	50.2	36.5	36.6	37.0	34.4	38.7	38.5	42.5	51.2	49.2	50.2	37.1	39.3	36.7	34.0	39.4	41.8	42.4
China, P.R.*	30.0	25.0	23.0	22.0	20.0	17.0	16.0	17.5	18.0	22.0	30.0	25.0	23.0	22.0	22.0	17.0	15.0	17.0	19.0	20.0
Czechoslovakia	0.2*	0.2*	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	n.a.	n.a.	0.1	n.a.	n.a.	0.1	0.2	0.4	0.5	0.6*
Germany, D.R.*	1.0	1.0	1.0	1.0	1.2	1.6	1.8	2.5	2.8	2.8	1.2	1.2	1.1	1.1	1.3	1.6	1.8	3.0	3.3	3.3
Mongolia								1.0	1.0	1.0										
Vietnam*	n.a.	n.a.	n.a.	0.3	0.3	0.2	0.4	0.5	0.5	0.5	n.a.	n.a.	n.a.	–	–	–	–	0.5	0.5	0.5
USSR*	20.0	23.0	26.0	13.0	15.0	18.0	16.0	17.0	16.0	16.0	20.0	23.0	26.0	14.0	16.0	18.0	17.0	18.5	18.5	18.0

*Estimates

(1) Up to 1972 exports, since 1973 mine production.
(2) Including mine production of Burundi.
(3) Including tin content of tin-tungsten concentrates.
(4) Figures may include some recycled tin.

Source: Metal Statistics 1960-1970, 1972-1982 and 1976-1986, Metallgesellschaft AG
Tin Statistics, various issues, published by the International Tin Council

Table 2

World Production of Tin, 1960-1986
(Percentage of World Production)

	Mine production (tin content)										Smelter Production (Primary)(4)									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries, of which:	69.2	71.4	71.9	74.7	74.4	75.9	76.8	72.5	71.8	66.4	42.2	50.1	57.8	65.5	66.2	73.1	75.9	63.7	62.2	62.0
Argentina	0.1	0.2	0.9	0.2	0.2	0.2	0.3	0.1	0.3	0.2	–	–*	–*	–*	–*	–*	0.1*	0.1	0.1	0.2
Bolivia(1)	10.4	11.8	12.0	14.0	14.6	11.7	11.7	9.6	8.2	5.6	0.5	1.7	0.1	3.1	3.5	6.6	7.5	6.8	5.1	3.3
Brazil	0.8	0.8	1.3	1.6	2.0	2.8	2.9	9.7	13.5	14.0	0.6	0.9	1.3	2.2	3.0	4.2	3.8	9.1	11.6	12.3
Burma	0.5	0.3	0.1	0.3	0.2	0.5	0.5	0.9	0.8	0.8								0.3	0.2	0.5
Burundi	–	–	–	–	–	–	–	–	–	–										
Indonesia	12.2	7.3	8.2	10.1	11.6	12.3	13.8	11.2	11.1	13.6	1.0	0.6	2.2	6.5	8.2	11.6	13.1	10.8	9.8	11.1
Korea, Rep.of	n.a.	n.a.	–	–	–	0.4	–	–	–	–	n.a.	n.a.	n.a.	n.a.	n.a.	0.2	0.2	0.6	0.8	0.8
Laos	0.2	0.1	0.6	0.3	0.2	0.3	0.3	0.3	0.3	0.2										
Malaysia	28.0	31.6	31.8	32.4	29.4	26.5	26.1	20.0	18.8	16.1	37.6	36.5	38.6	36.8	38.1	30.6	30.6	22.5	21.8	22.0
Mexico				0.1	0.2	0.0	0.0	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.5	0.5	0.6	0.7	0.7	1.1
Nigeria	4.1	4.7	3.4	2.6	2.1	1.2	1.1	0.6	0.4	0.1	–	4.7	3.5	2.7	2.2	1.2	1.2	0.6	0.5	0.1
Peru	n.a.	n.a.	n.a.	0.1	0.1	0.4	0.5	1.5	1.9	2.7										
Rwanda	0.7(2)	0.7	0.6	0.6	0.6	0.6	0.7	0.5	0.4	–	n.a.	n.a.	n.a.	–	–	–	–	–	–	–
Singapore											n.a.	n.a.	n.a.	–	–	1.7	1.7	1.7	1.9	0.3
Thailand	6.5	9.5	9.4	9.4	7.5	14.3	14.3	10.5	7.9	9.3	–	2.8	9.5	10.2	7.6	13.9	14.9	9.4	8.6	9.9
Zaire	4.8	3.1	2.8	2.4	2.1	1.4	1.4	1.4	1.1	1.0	1.2	0.9	0.6	0.4	0.3	0.2	0.2	–	–	0.1
Zimbabwe	0.3	0.2	0.3	0.3	0.5	0.4	0.4	0.6	0.6	0.6	n.a.	n.a.	n.a.	0.5	0.5	0.4	0.4	0.6	0.6	0.6
Other	0.6	0.7	0.5	0.2	2.8	3.4	3.1	5.5	5.6	1.9	0.7	0.7	0.5					0.5	0.3	–
Developed countries, of which:	3.6	4.5	6.4	8.9	8.9	8.7	8.6	8.8	8.6	10.1	32.9	25.5	20.7	18.0	15.7	11.6	9.5	17.4	17.8	16.7
Australia(3)	1.2	1.9	3.8	4.8	4.4	5.3	4.9	3.8	3.5	4.8	1.1	1.6	2.4	3.1	2.4	2.3	2.1	1.4	1.3	0.7
Canada				0.0	0.1	0.1	0.3	0.3	0.1	1.1										
EEC	1.1	1.2	1.1	2.1	2.4	1.4	1.6	2.8	3.1	2.2	23.7	21.3	15.5	11.2	8.9	6.0	4.4	11.8	12.6	12.2
Belgium-Luxembourg					0.1						3.9	2.1	1.8	1.7	2.1	0.9	1.2	–	–	–
France	–	0.2	0.1		–	–	–	–	–	–										
Germany, Fed.Rep.											0.4	0.7	0.5	0.4	0.6	1.0	0.3	0.2	0.5	0.2
Netherlands											5.7	9.1	2.7	–	0.8	0.7	0.5	3.1	2.9	3.0
Spain	0.1	–	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.9	1.2	2.6	2.4	1.9	1.6	1.7	1.8	1.5
Portugal	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1
United Kingdom	0.6	0.6	0.7	1.6	1.9	1.1	1.4	2.4	2.6	2.4	13.7	9.3	10.5	9.1	5.3	3.3	2.5	6.6	7.1	7.5
Japan	0.5	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.8	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.7
South Africa (incl. Namibia)	0.8	1.0	1.2*	1.5	1.6	1.6	1.7	1.5	1.6	1.6	n.a.	n.a.	n.a.	0.7	0.7	0.7	0.9	1.1	1.2	1.0
United States								–	–	–	7.0	1.5	2.0	2.1	2.9	1.9	1.3	2.4	2.1	2.2
Centrally-planned economies, of which:	27.1	24.1	21.6	16.4	16.7	15.5	14.6	18.7	19.6	23.5	24.9	24.4	21.5	16.5	18.0	15.4	14.6	18.9	20.0	21.3
China, P.R.*	15.9	12.2	9.9	9.9	9.1	7.1	6.8	8.5	9.2	12.1	14.6	12.4	9.8	9.8	10.1	7.1	6.4	8.1	9.1	10.1
Czechoslovakia	0.1*	0.1*	0.1	0.1	–	0.1	0.1	0.1	0.1	0.1	n.a.	n.a.	–	n.a.	n.a.	–	0.1	0.2	0.2	0.3
Germany, D.R.*	0.5	0.5	0.4	0.5	0.7	0.8	1.2	1.2	1.4	1.5	0.6	0.5	0.5	0.6	0.7	0.8	1.4	1.4	1.6	1.7
Mongolia							0.5	0.5	0.5	0.6										
Vietnam*	n.a.	n.a.	n.a.	0.1	0.1	0.2	0.2	0.2	0.3	0.3	n.a.	n.a.	–	–	–	–	0.2	0.2	0.2	0.3
USSR*	10.6	11.2	11.2	5.8	6.9	7.6	6.8	8.2	8.2	8.8	9.7	11.4	11.1	6.2	7.3	7.5	7.3	8.7	8.9	9.0

*Estimates

(1) Up to 1972 exports, since 1973 mine production.
(2) Including mine production of Burundi.
(3) Including tin content of tin-tungsten concentrates.
(4) Figures may include some recycled tin.

Source: Metal Statistics 1960-1970, 1972-1982 and 1976-1986, Metallgesellschaft AG
Tin Statistics, various issues, published by the International Tin Council

Table 3

World Consumption of Tin(1), 1960-1986

	in thousands of metric tons										as a percentage of world consumption									
	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1984	1985	1986
World	201.3	225.1	237.9	254.4	216.6	231.7	222.1	214.4	208.6	217.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries, of which:	14.9	19.8	21.0	24.7	23.2	27.8	25.7	30.3	29.4	38.4	7.4	8.8	8.8	9.7	10.7	12.0	11.5	14.1	14.1	17.8
Argentina	1.8	1.4	1.8	1.5	1.8	1.3	1.2	1.2	0.8	1.6	0.9	0.6	0.8	0.6	0.8	0.6	0.5	0.6	0.4	0.7
Brazil	1.6	1.8	2.8	4.3	3.8	5.4	5.0	4.2	4.3	4.9	0.8	0.8	1.2	1.7	1.8	2.3	2.3	2.0	2.1	2.3
Egypt	0.3	1.6	0.4	0.5	0.4	0.2	0.4	0.4	0.4	0.4	0.1	0.7	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
India	3.3	4.7	4.8	2.7	2.9	2.5	2.3	2.3	2.3	2.9	1.6	2.1	2.0	1.1	1.3	1.1	1.0	1.1	1.1	1.3
Korea, Republic of	n.a.	n.a.	n.a.	0.9	0.8	1.8	1.8	3.6	2.6	5.2	n.a.	n.a.	n.a.	0.4	0.4	0.8	0.8	1.7	1.2	2.4
Mexico	n.a.	n.a.	n.a.	2.2	1.8*	1.6*	1.8	1.6	1.0	1.2	n.a.	n.a.	n.a.	0.9	0.8*	0.7*	0.8	0.7	0.5	0.6
Pakistan	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	-
Romania	0.3	1.7	2.6	3.3	3.1	3.0	3.0	2.0	2.0	2.0	0.1	0.8	1.1	1.3	1.4	1.3	1.4	0.9	1.0	0.9
Turkey	1.0	0.9	1.0	1.4	1.2	2.9	0.5	0.9	0.9	1.1	0.5	0.4	0.4	0.6	0.6	1.3	0.2	0.4	0.4	0.5
Yugoslavia	1.3	1.3	1.4	0.8	1.0	1.3	1.0	1.1	1.4	1.5	0.6	0.6	0.6	0.3	0.5	0.6	0.5	0.5	0.7	0.7
Other	4.9	6.0	5.8	6.7	6.1	7.6	8.5	12.8	13.6	17.5	2.4	2.7	2.4	2.6	2.8	3.3	3.8	6.0	6.5	8.1
Developed countries, of which:	145.1	151.4	156.7	181.8	141.9	151.4	142.9	132.0	128.0	127.4	72.8	67.2	65.9	71.5	65.6	65.3	64.4	61.6	61.4	58.6
Australia(2)	4.2	4.9	4.2	4.3	3.3	3.4	3.1	2.6	2.7	2.5	2.1	2.2	1.8	1.7	1.5	1.5	1.4	1.2	1.3	1.2
Austria	0.9	0.6	0.6	0.6	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
Canada	3.9	5.0	4.4	5.2	4.3	4.8	4.5	4.1	3.8	3.6	1.9	2.2	1.8	2.0	2.0	2.1	2.0	1.9	1.8	1.7
EEC	64.0	59.7	63.8	69.3	57.6	57.7	54.9	50.4	48.5	52.2	31.8	26.5	26.8	27.3	26.6	24.9	24.8	23.5	23.3	24.0
Belgium-Luxemboug	2.8	2.5	3.1	3.5	4.4	2.4	2.6	1.7	1.9	1.1	1.4	1.1	1.3	1.4	2.0	1.0	0.9	0.8	0.9	0.5
Denmark	2.8	0.8	0.8	0.4	0.3	0.3	0.1	-	0.1	0.1	1.4	0.4	0.3	0.2	0.1	0.1	-	-	-	-
France	11.4	10.3	10.5	11.7	9.7	9.7	10.1	7.8	6.9	7.6	5.7	4.6	4.4	4.6	4.5	4.2	4.5	3.6	3.3	3.5
Germany, Fed.Rep.(3)	14.5*	13.0	15.1	16.9	13.0	15.2	15.9	16.0	16.6	17.4	7.2	5.8	6.3	6.6	6.0	6.6	7.2	7.5	8.0	8.0
Greece	n.a.	n.a.	n.a.	0.4	0.6	0.8	0.5	0.3	0.4	0.6	n.a.	n.a.	n.a.	0.2	0.3	0.3	0.2	0.1	0.3	0.3
Italy	5.1	6.4	7.2	8.4	6.3	6.0	5.8	4.5	5.0	5.6	2.5	2.8	3.0	3.3	2.9	2.6	2.6	2.1	2.4	2.6
Netherlands(3)	3.2	3.4	5.5	4.8	3.9	4.8	5.0	5.6	5.1	5.8	1.6	1.5	2.3	1.9	1.8	2.1	2.3	2.6	2.4	2.7
Spain	1.0	2.3	3.0	3.8	4.3	4.4	4.6	3.9	3.4	3.4	0.5	1.0	1.3	1.5	2.0	1.9	2.1	1.8	1.6	1.7
Portugal	n.a.	n.a.	n.a.	1.0	0.7	0.9	0.4	0.6	0.7	0.9	n.a.	n.a.	n.a.	0.4	0.3	0.4	0.2	0.3	0.3	0.4
United Kingdom(3)	23.2	21.0	18.6	18.4	14.4	13.2	9.9	10.0	9.4	9.7	11.5	9.3	7.8	7.2	6.7	5.7	4.5	4.7	4.5	4.5
Finland	0.4	0.4	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	-	0.1	0.1	0.1	-	0.1
Japan	14.6	17.0	25.3	38.8	28.1	31.2	30.9	33.3	31.6	31.5	7.3	7.5	10.6	15.3	13.0	13.5	13.9	15.5	15.1	14.5
New Zealand				0.3	0.4	0.3	0.3	0.1	0.1	0.1				0.1	0.2	0.1	0.1	0.1	-	-
Norway	0.2	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
South Africa	2.0	1.3	1.9	2.3	2.2	2.0	2.0	1.7	1.9	1.9	1.0	0.6	0.8	0.9	1.0	0.9	0.9	0.8	0.9	0.9
Sweden	0.8	0.9	0.4	0.4	0.6	0.5	0.8	0.3	0.4	0.5	0.4	0.4	0.2	0.2	0.3	0.2	0.4	0.1	0.2	0.2
Switzerland	0.8	1.0	0.8	0.8	0.7	0.7	0.8	0.6	0.8	1.2	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.6
United States	52.4	59.5	53.9	59.1	43.6	49.5	44.3	37.8	37.1	32.7	26.0	26.5	22.7	23.2	20.2	21.4	19.9	17.6	17.8	15.0
Other	0.9	0.7	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.3	0.3	0.0	-	0.0	-	-	-	-
Centrally-planned economies, of which:	41.3	54.2	60.2	47.9	51.1	52.5	53.5	52.1	51.2	51.5	20.5	24.1	25.3	13.8	23.6	22.7	24.1	24.3	24.5	23.7
Bulgaria	0.2	0.3	0.6	0.9	0.9	1.0	0.9	1.0	1.0	1.0	0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
China, P.R.*	8.0	15.0	15.0	14.4	13.9	14.5(2)	13.8	11.0	11.0	11.5	4.0	6.7	6.3	5.7	6.4	6.3	6.2	5.1	5.3	5.3
Czechoslovakia	2.0	3.1	3.4	3.5	3.4	3.2	4.3	3.3	3.1	3.2	1.0	1.4	1.4	1.4	1.6	1.4	1.9	1.5	1.5	1.5
Germany, D.R.*	1.5	2.5	2.5	2.5	2.6	3.0	3.1	3.0	3.3	3.3	0.7	1.1	1.1	1.0	1.2	1.3	1.4	1.4	1.6	1.5
Hungary	1.0	1.0	1.2	1.5	1.7	1.4	1.6	1.7	1.3	1.4	0.5	0.4	0.5	0.6	0.8	0.6	0.7	0.8	0.6	0.6
Poland	1.8	2.5	3.5	4.8	4.3	3.9	3.3	3.6	3.0	3.6	0.9	1.1	1.5	1.9	2.0	1.7	1.5	1.7	1.4	1.7
USSR*	26.3	28.8	33.0	19.0	23.0	24.0	25.0	27.0	27.0	26.0	13.1	12.8	13.9	7.5	10.6	10.4	11.3	12.6	12.9	12.0
Other*(4)	0.5	1.0	1.0	1.3	1.3	1.5	1.5	1.5	1.5	1.5	0.2	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7

*Estimates

(1)Primary tin metal, for some countries figures might include some recycled tin.
(2)Data for 1960, 1965, 1970 include Oceania.
(3)From 1973, including secondary pure tin.
(4)Including Cuba.

Source: Metal Statistics 1960-1970, 1976-1986, Metallgesellschaft AG

Table 4

Direction of Trade: Tin-in-concentrates, 1986
(in metric tons)

Main exporters	Volume	%	Main importers	Volume	%
Bolivia	8,618	100.0	EEC[3]	13,180	100.0
EEC	2,096	24.3		38,180	100.0
Other	6,522	75.7	Bolivia	23,701	62.1
			Canada	3,833	10.0
Australia	7,212	100.0	Zaire	3,395	8.9
Malaysia	6,898	95.6	China, P.R.	1,289	3.4
EEC	240	3.3	Burma	1,185	3.1
Other	8	0.1	Australia	1,016	2.7
			Other	3,761	9.8
China, P.R.[1]	6,094	100.0			
Malaysia	2,800	45.9	Malaysia[4]	12,455	100.0
Singapore	2,205	36.2	Australia	7,235	58.1
Other	1,089	17.9	China, P.R.	2,800	22.5
			Zaire	1,076	8.6
Peru[1]	4,631	100.0	Indonesia	615	4.9
United States	3,676	79.4	Bolivia	497	4.0
EEC(UK)	943	20.4	Other	232	1.9
Other	12	0.2			
			United States	4,030	100.0
Chile[1]	4,247	100.0	Peru	3,676	91.2
EEC(UK)	3,974	93.6	Bolivia	259	6.4
Other	267	6.3	Other	95	2.4
Singapore	3,620	100.0	Singapore	3,158	100.0
Malaysia	2,019	55.8	China, P.R.	2,205	69.8
Korea, Rep.of	581	16.0	Burma	234	7.4
EEC	563	15.6	Thailand	191	6.0
USSR	295	8.1	Other	528	16.7
Other	162	4.5			
			Mexico	2,114	100.0
Indonesia[2]	3,286	100.0	United States	2,102	99.4
Malaysia	3,286	100.0	Other	12	0.6
Zaire[p]	2,641	100.0			
EEC	1,524	57.7			
Malaysia	1,076	40.7			
Other	41	1.6			

[1]As reported by some importing countries. Some double counting may be involved for China, P.R.

[2]Figures reported as tin concentrates. Conversion into tin-in-concentrates - based on an assumed grade of 70 per cent.

[3]The EEC statistics give volume of tin concentrates. Moreover, main suppliers diverge from those given in the Tin Statistics published by the International Tin Council.

[4]Figures include trans-shipments.

p - Preliminary

Source: Tin Statistics, 1976-1986, published by the International Tin Council
External Trade - Nimexe, 1986

Table 5

Direction of Trade: Tin metal, 1986[1]
(in metric tons)

Main exporters	Volume	%	Main importers	Volume	%
Malaysia[2]	40,504	100.0	United States	35,768	100.0
Japan	13,017	32.1	Brazil	9,456	26.4
EEC	10,416	25.7	Malaysia	6,230	17.4
Singapore	4,416	10.9	Bolivia	4,893	13.7
Taiwan	3,186	7.9	China, P.R.	2,954	8.3
United States	3,128	7.7	Thailand	1,900	5.3
Korea, Rep.of	2,189	5.4	Chile	1,777	5.0
India	2,102	5.2	Other	8,558	23.9
Other	2,050	5.1			
			EEC[4]	33,616	100.0
Singapore[3]	29,914	100.0	Malaysia	9,527	28.3
Japan	9,402	31.4	Indonesia	7,642	22.7
United States	6,474	21.6	Brazil	3,744	11.1
EEC	5,075	17.0	Bolivia	3,237	9.6
USSR	1,800	6.0	Thailand	3,161	9.4
Korea, Rep.of	1,336	4.5	Singapore	1,395	4.1
Philippines	1,127	3.8	South Africa	1,166	3.5
Other	4,700	15.7	United States	1,150	3.4
			Other	2,954	7.7
Indonesia	23,804	100.0			
Singapore	15,199	63.9	Japan	31,769	100.0
EEC	7,605	31.9	Malaysia	14,794	46.6
USSR	1,000	4.2	Thailand	8,755	27.6
			Indonesia	4,903	15.4
EEC[4]	9,151	100.0	China, P.R.	1,378	4.3
USSR	5,217	57.0	Brazil	1,260	4.0
United States	509	5.6	Other	679	2.1
Sweden	362	4.0			
Norway	234	2.6	USSR	13,809	100.0
Canada	179	2.0	EEC	5,609	40.6
Other	2,650	29.0	Malaysia	3,108	22.5
			Singapore	1,810	13.1
Brazil[5]	19,165	100.0	Indonesia	1,000	7.2
United States	10,599	55.3	Other	2,282	16.5
EEC(UK)	4,963	25.9			
Argentina	1,258	6.6	Taiwan	4,221	100.0
USSR	686	3.6	Malaysia	3,102	73.5
Other	1,659	8.7	Thailand	822	19.5
			Other	297	7.0
Thailand	18,567	100.0			
Japan	5,522	29.7	Hong Kong	4,166	100.0
EEC	3,205	17.3	China, P.R.	2,903	69.7
United States	1,430	7.7	Singapore	501	12.0
Other	8,410	45.3	Malaysia	357	8.6
			Other	405	9.7

Main exporters	Volume	%	Main importers	Volume	%
China, P.R.[5]	7,710	100.0	Canada	3,925	100.0
United States	2,954	38.3	United States	1,496	38.3
Hong Kong	2,903	37.7	Brazil	966	24.7
Japan	1,378	17.9	Bolivia	686	17.6
Other	475	6.1	Other	777	19.9
United States[6]	3,236	100.0	Korea, Rep.of	3,706	100.0
(with re-export)	1,547	100.0	Malaysia	2,353	63.5
Canada	1,067	69.0	Indonesia	893	24.1
Mexico	115	7.4	Singapore	195	5.3
Other	36	6.1	Other	265	7.2
			Poland	3,625	100.0
			Malaysia	1,882	51.9
			Brazil	460	12.7
			Other	1,283	35.4

[1]Primary and secondary tin metal; small tonnages of tin alloys may also be included.

[2]Figures include trans-shipments via Singapore.

[3]As reported by source.

[4]Figures include tin alloys.

[5]As reported by some importing countries.

[6]Figures include tin alloys, unwrought. Including re-exports.

Source: Tin Statistics, 1976-1986, published by the International Tin Council
External Trade - Nimexe 1986

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN TIN AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Embargoes	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Austria
	Tin, unwrought and waste (CCCN ex 80.01)	Brazil
	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Indonesia
	Tin, unwrought and waste (CCCN ex 80.01)	Colombia
	Tin and articles thereof (CCCN ex 80)	Canada, Pakistan, Sri Lanka
Export restraints	Tin, unwrought and waste (CCCN ex 80.01)	Austria, Malaysia, New Zealand, Yugoslavia
	Metallic ores and concentrates (CCCN ex 26.01)	Brazil, New Zealand
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Brazil, EEC, Finland
Export taxes	Wrought bars, rods etc., of tin (CCCN ex 80.02)	Argentina
	Tin and articles thereof (CCCN ex 80)	Canada
	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Guyana, Haiti, Philippines
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Switzerland
	Tin, unwrought and waste (CCCN ex 80.01)	Switzerland
II. On imports		
Prohibition	Metallic ores and concentrates and roasted iron pyrites (CCCN ex 26.01)	Pakistan
	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	Pakistan
	Tin, waste (CCCN 80.01)	Bangladesh
	Tubes and pipes of tin (CCCN 80.05)	Senegal
	Other salts and peroxysalts of inorganic acids including azides (CCCN ex 28.48)	Malaysia
Prohibition except under defined conditions	Tin ore over 2 kg (CCCN ex 26)	Thailand
	Tin alloys over 2 kg (CCCN 80.01)	Thailand
	Tin foil (CCCN 80.04)	Thailand
Quota (unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Yugoslavia
	Chlorides and oxychlorides (CCCN ex 28.30)	Yugoslavia
	Tin and articles thereof (CCCN ex 80.01)	Senegal
	Unwrought tin (CCCN 80.01)	Yugoslavia
	Wrought bars, rods etc., of tin (CCCN 80.02)	Yugoslavia
	Wrought plates, sheets and strip of tin (CCCN 80.03)	Yugoslavia
	Other articles of tin (CCCN 80.06)	Yugoslavia
Quantitative restrictions; licensing	Salts of metallic acids (CCCN ex 28.47)	EEC (Italy)
	Metallic ores, slag and ash (CCCN ex 26)	India, Switzerland
	Tin and articles thereof (CCCN ex 80)	India

Non-tariff measures	Product	Country(ies) maintaining the measure
Licensing (unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Malawi
	Domestic articles and parts (CCCN 80.06.100)	Jamaica
Liberal licensing	Metallic ores and concentrates (CCCN 26.01	Korea, Rep. of, Switzerland
Automatic licensing	Ash and residues containing metals or metallic compounds (CCCN ex 26.03)	South Africa
	Hydrazine, other inorganic bases and metallic oxides etc. (CCCN ex 28.28)	South Africa
	Chlorides and oxychlorides (CCCN ex 28.30)	Switzerland
	Salts of metallic acid (CCCN ex 28.47)	South Africa
	Other salts and peroxysalts of inorganic acids excluding azids (CCCN ex 28.48)	South Africa, Switzerland
Non-automatic licensing	Metallic ores and concentrates (CCCN 26.01)	Argentina, Colombia, Japan, New Zealand, Peru, Sri Lanka, Tunisia, Zambia
	Ash and residues containing metals or metallic or metallic compounds	Argentina, Colombia, Sri Lanka, Tunisia, Turkey
	Tin oxides and hydroxides (CCCN 28.28.00.14.00)	Argentina
	Other oxychlorides and hydroxychlorides (CCCN 28.30.00.02.99)	Argentina
	Other sulphides, polysulphides (CCCN 28.35.00.99.00)	Argentina
	Sulphides, Polysulphides (CCCN 28.35)	Sri Lanka, India
	Other sulphides (CCCN 28.35.01.99)	Colombia
	Other chromates (CCCN 28.47.00.01.99)	Argentina
	Salts of metallic acids (CCCN ex 28.47)	India
	Other salts and peroxysalts of inorganic acids excluding azides (CCCN ex 28.48)	India, Turkey
	Tin, unwrought and waste (CCCN 80.01.02.00)	Colombia
	Tin, unwrought excluding waste and scrap (CCCN 80.01.02.00)	Ghana
	Wrought bars, rods etc., of tin (CCCN 80.02)	Colombia, Ghana
	Wrought plates, sheets and strips of tin (CCCN 80.03)	Ghana, Nigeria
	Tin foil etc., tin powders and flakes (CCCN 80.04)	Ghana, Thailand
	Tubes and pipes of tin (CCCN 80.05)	Ghana, Tunisia
	Other articles of tin (CCCN 80.06.00.01.00)	Argentina
	Other articles of tin (CCCN 80.06.89.02; 89.99)	Colombia
	Other articles of tin (CCCN 80.06)	Ghana, Tunisia
License suspended	Other articles of tin (CCCN 80.06)	Brazil
Restriction (unspecified)	Chlorides and oxychlorides (CCCN ex 28.30)	Indonesia
	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
	Tin, unwrought and waste (CCCN ex 80.01)	Thailand
Quantitative restrictions made effective through State trading operations	Sulphides, Polysulphides (CCCN 28.35)	Sri Lanka

Non-tariff measures	Product	Country(ies) maintaining the measure
State-trading	Metallic ores, slag and ash (CCCN ex 26)	India
	Metallic ores and concentrates (CCCN ex 26.01)	Tunisia
	Tin, unwrought and waste (CCCN 80.01)	India
	Wrought bars, rods etc. of tin (CCCN 80.02)	India
	Wrought plates, sheets and strip of tin (CCCN 80.03)	India
	Tin foil etc., tin powders and flakes (CCCN 80.04)	India
	Tubes and pipes of tin (CCCN 80.05)	India
Border tax adjustment	Metallic ores and concentrates (CCCN 26.01)	EEC (Italy)
Domestic price measure	Metallic ores and concentrates (CCCN ex 26.01)	Brazil
Surcharges port taxes	Metallic ores and concentrates (CCCN ex 26.01)	Austria

Source: NTM/W/17/Add.2; NTM/W/17/Add.2/Corr.1; NTM/W/6/Rev.4

Table 7

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING TIN AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.09	2609.00	Tin ores and concentrates.	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
	2620.90	- Other	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	5%
26.21	2621.00	Other slag and ash, including seaweed ash (kelp).	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free
28.25		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.											
	2825.10	- Hydrazine and hydroxylamine and their inorganic salts	2% U	Free B	Free B	6% B	Free B	5.8% B 5) A:4.6%	Free B	7.7% B	Free B, 3.8% B A: Free	SwF1.50/100kg B	3.7%
	2825.90	- Other	2% U	8% B	12.5% B	5.7% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF1.50/100kg B	4.2%
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.37	-- Of tin	2% U	8% B	Free B, 12.5% B	4.1% B	Free B	4.9% B 5) A:3.9%	Free B	Free B	Free B	SwF2.20/100kg B	4.2%
		- Chloride oxides and chloride hydroxides:											
	2827.49	-- Other	2% U	Free B	12.5% B	5.3% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF0.50/100kg B	7%
		- Bromides and bromide oxides:											
	2827.59	-- Other	2% U	Free B	Free B	6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B	SwF2.50/100kg B	3.6%
	2827.60	- Iodides and iodide oxides	2% U	Free B	12.5% B	6.9% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.50/100kg B	4.2%
28.29		Chlorates and perchlorates; bromates and perbromates; iodates and periodates.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B 5) A:3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8% B, 6.9% B	Free B	5.8% B A:4.6%	Free B	Free B	Free B, 5.8% B	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.90	- Other	2% U	Free B	Free B	6.9% B	Free B	3.7% B 5) A:3%	Free B	Free B	Free B	SwF0.50/100kg B	3%
28.33		Sulphates; alums; peroxosulphates (persulphates).											
		- Other sulphates:											
	2833.29	-- Other	2% U	Free B	9.2% B	5.3% B	Free B	4.9% B A:3.9%	Free B	Free B	3.2% B	SwF1.50/100kg B	3.7%
	2833.40	- Peroxosulphates (persulphates)	2% U	Free B	9.2% B	6.3% B	Free B	4.9% B A:3.9%	Free B	Free B	Free B	SwF2.40/100kg B	3.1%

28.34		Nitrites; nitrates.												
	2834.10	- Nitrites	12% U	Free B	18% B	17% B	Free B	14.9% B A:3.9%	5) Free B	Free B	15.8% B A:Free	SwF1.10/100kg B	13.1%	
		- Nitrates:												
	2834.29	-- Other	12% U	Free B	12.5% B	13% B	Free B	14.9% B A:3.9%	5) Free B	Free B	Free B	SwF1.50/100kg B	13.5%	
28.36		Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate.												
		- Other:												
	2836.99	-- Other	12% U	Free B	12.5% B	16.6% B, 18% B	11% B A:Free	14.9% B A:3.9%	Free B	Free B	Free B	SwF2.40/100kg B	13.7%	
28.37		Cyanides, cyanide oxides and complex cyanides.												
		- Cyanides and cyanide oxides:												
	2837.19	--Other	Free U	Free B	Free B	16.2% B	Free B	14.9% B A:3.9%	5) Free B	Free B	Free B	SwF0.75/100kg B	Free	
	2837.20	- Complex cyanides	Free U	Free B	Free B	12% B	Free B	14.9% B A:3.9%	5) Free B	Free B	Free B	SwF0.75/100kg B	11.7%	
28.38	2838.00	Fulminates, cyanates and thiocyanates.	12% U	Free B	12.5% B	16.3% B	Free B	14.9% B A:3.9%	Free B	Free B	Free B	SwF1.50/100kg B	13.1%	
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.												
	2842.10	- Double or complex silicates	12% U	Free B	Free B	16% B	Free B	14.9% B A:3.9%	Free B	Free B	Free B	SwF2.00/100kg B	13.7%	
	2842.90	- Other	12% U	Free B	Free B	16.2% B	Free B	14.9% B A:3.9%	Free B	Free B	Free B	SwF2.00/100kg B	13.3%	
80.01		Unwrought tin.												
	8001.10	- Tin, not alloyed	12% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	SwF0.30/100kg B	Free	
	8001.20	- Tin alloys	12% U	11% B	Free U, 6.8% B, 10.2% B 4)	Free B	Free B	13.2% B A:2.6%	Free B, 15% U(solder)	Free B	Free B	SwF0.30/100kg B	Free	
80.02	8002.00	Tin waste and scrap.	12% U	Free B	Free	Free B	Free B	Free B	15% U	Free B	Free B	SwF0.30/100kg B	Free	
80.03	8003.00	Tin bars, rods, profiles and wire.	12% U	15% B	Free-10.2% B	13.2% B	Free B	13.7% B A:3%	15% B, 15% U(solder)	Free B	Free B	SwF0.70/100kg B, SwF10.00/100kg B	14.2%	
80.04	8004.00	Tin plates, sheets and strip, of a thickness exceeding 0.2 mm	12% U	15% B	15.5%-10.2% B	12.5% B	Free B	13.7% B A:3%	15% B	Free B	Free B	SwF12.00/100kg B	12.4%	
80.05		Tin foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials), of a thickness (excluding any backing) not exceeding 0.22 mm; tin powders and flakes.												
	8005.10	- Foil	12% U	17% B	Free B	14% B	Free B	14.9% B A:3.9%	15% B 6)	13.8% B	11.4% B	SwF51.00/100kg B	17%	
	8005.20	- Powders and flakes	12% U	18% B	14%, 10.2% B	12.9% B	Free B	14.9% B A:3.9%	15% U	Free B	Free B	SwF0.50/100kg B	14.2%	
80.06	8006.00	Tin tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).	12% U	15% B	10.2% B	14.5% B	Free B	14.9% B A:3.9%	15% B	Free B	Free B	SwF14.00/100kg B	12.4%	
80.07	8007.00	Other articles of tin.	12% U	18% B	10.2% B	15.3% B	15.1% B	15.8% B A:4.6%	150% B A:18% +	13.2% B	13.2% B,3.8% B	SwF42.00/100kg B, SwF92.00/100kg B	13.1%, 14.2%	

B - Bound rate. U - Unbound rate. A - Applied rate.

1) Australian tariff rates indicate rates stated in the combined Australian Customs Tariff and Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
3) The Harmonised System comes into force 1 January 1989. The United States will present its Schedule based on the HS at a later stage.
4) 8001.20.10: Tin-antimony alloys: Free U;
8001.20.20: Tin-lead-antimony alloys: 6% B;
8001.20.90: Other: 10.2% B.
5) These items are subject to the Poisonous and Deleterious Substance Control Law.
6) Excludes printed and embossed foil.

Z I N C

TABLE 1

WORLD MINE PRODUCTION OF ZINC, 1960-1986

	Thousand metric tons (metal content)											Percentage of world production										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	3,384	4,351	5,589	6,075	6,171	6,294	6,140	6,466	6,708	6,830	6,803	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries	846	998	1,173	1,372	1,347	1,369	1,319	1,475	1,564	1,626	1,622	25.0	22.9	20.9	22.5	21.8	21.7	21.5	22.8	23.3	23.8	23.8
of which:																						
Algeria	39	37	17	13	12	3	8	11	12	13	14	1.2	0.8	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
Argentina	35	30	39	41	37	37	33	37	35	36	39	1.0	0.7	0.7	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6
Bolivia	4	13	47	53	49	44	50	47	38	38	33	0.1	0.3	0.8	0.9	0.8	0.7	0.8	0.7	0.6	0.6	0.5
Brazil	-	-	11	27	34	68	67	73	79	85	93	-	-	0.2	0.4	0.5	1.1	1.1	1.1	1.2	1.2	1.4
Honduras	4	10	19	25	25	20	16	38	42	44	27	0.1	0.2	0.3	0.4	0.4	0.3	0.3	0.6	0.6	0.6	0.4
India	5	5	8	15	23	43	32	37	41	53	45	0.2	0.1	0.1	0.2	0.4	0.7	0.5	0.6	0.6	0.8	0.6
Iran	9	15	29	33	80	25	30	39	47	50	36	0.3	0.3	0.5	0.5	1.3	0.4	0.5	0.4	0.7	0.7	0.5
Korea, Rep.of	-	7	23	48	46	62	57	56	49	46	34	-	0.2	0.4	0.8	0.7	1.0	1.0	0.9	0.7	0.7	0.5
Mexico	271	225	266	271	249	245	238	275	303	291	285	8.0	5.2	4.8	4.5	4.0	3.9	3.9	4.3	4.5	4.2	4.2
Peru	178	283	332	434	405	491	488	553	555	583	598	5.3	6.5	5.9	7.1	6.6	7.8	7.9	8.5	8.3	8.5	8.8
Romania	8	12	48	60	49	45	40	40	39	40	39	0.2	0.3	0.9	1.0	0.8	0.7	0.7	0.6	0.6	0.6	0.6
Turkey	4	2	24	25	26	25	23	32	34	33	41	0.1	0.1	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6
Yugoslavia	56	92	101	97	103	102	95	87	86	89	95	1.7	2.1	1.8	1.6	1.7	1.6	1.5	1.1	1.3	1.3	1.4
Zambia	40	66	66	80	66	54	43	41	57	51	51	1.2	1.5	1.2	1.3	1.1	0.8	0.7	0.6	0.9	0.8	0.8
Zaire	109	119	103	88	80	73	67	75	68	74	82	3.2	2.7	1.9	1.5	1.3	1.1	1.1	1.2	1.0	1.1	1.2
Other	81	82	40	62	63	32	32	34	79	100	110	2.4	1.9	0.7	1.0	1.0	0.5	0.5	0.5	1.2	1.5	1.6
Developed countries	1,795	2,483	3,208	3,232	3,220	3,281	3,234	3,390	3,549	3,540	3,496	53.0	57.1	57.5	53.3	52.2	52.2	52.7	52.4	52.9	51.8	51.4
of which:																						
Australia	295	326	447	441	468	487	464	660	634	686	633	8.7	7.5	8.0	7.3	7.6	7.7	7.6	10.2	9.5	10.0	9.3
Austria	8	8	12	20	20	21	19	19	21	22	16	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Canada	390	826	1,253	1,351	1,229	1,204	1,059	1,070	1,207	1,172	1,291	11.6	19.0	22.4	22.2	19.9	19.1	17.2	16.5	18.0	17.2	19.0
EEC (1)	360	302	472	440	485	677	738	662	727	726	675	10.6	7.0	8.5	7.3	7.9	10.8	12.0	10.2	10.8	10.6	9.9
Denmark (Greenland)	10	-	-	27	89	87	86	79	71	70	62	0.3	-	-	0.5	1.5	1.4	1.4	1.1	1.1	1.0	0.9
France	17	21	19	12	14	37	37	34	36	41	40	0.5	0.5	0.3	0.2	0.2	0.6	0.6	0.5	0.5	0.6	0.6
Germany, F.R.	98	116	138	142	134	117	121	114	113	118	104	2.9	2.7	2.5	2.3	2.1	1.9	2.0	1.8	1.7	1.7	1.5
Greece	17	11	9	20	14	23	27	21	23	21	23	0.5	0.2	0.2	0.3	0.2	0.4	0.4	0.4	0.3	0.3	0.3
Ireland	1	-	98	66	67	205	223	186	206	192	182	0.0	-	1.7	1.1	1.1	3.2	3.6	2.9	3.1	2.8	2.7
Italy	131	116	110	79	79	65	57	43	42	45	26	3.9	2.7	2.0	1.3	1.3	1.0	0.9	0.7	0.6	0.6	0.4
Spain	86	38	98	94	85	143	183	176	229	234	233	2.5	0.9	1.8	1.6	1.4	2.3	3.0	2.7	3.4	3.4	3.4
United Kingdom	-	-	-	-	3	-	4	9	7	5	5	-	-	-	-	0.1	-	0.1	0.1	0.1	0.1	0.1
Finland	42	69	63	59	53	54	58	56	60	61	60	1.3	1.6	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Japan	157	221	280	264	254	243	238	256	253	253	222	4.6	5.0	5.0	4.3	4.1	3.9	3.9	4.0	3.8	3.7	3.3
Norway	10	13	10	15	24	28	28	32	27	28	27	0.3	0.3	0.2	0.2	0.4	0.4	0.5	0.5	0.4	0.4	0.4
South Africa (Incl. Namibia)	25	30	46	46	108	99	115	137	134	128	137	0.7	0.7	0.8	0.8	1.7	1.6	1.9	2.1	2.0	1.9	2.0
Sweden	74	79	93	119	111	174	167	205	208	212	219	2.2	1.8	1.7	2.0	1.8	2.8	2.7	3.2	3.1	3.1	3.2
United States	434	609	532	477	468	294	348	293	278	252	216	12.8	14.0	9.6	7.9	7.6	4.7	5.7	4.5	4.1	3.7	3.2
Centrally-planned economies	746	870	1,208	1,471	1,604	1,644	1,587	1,601	1,595	1,664	1,685	11.0	22.0	21.6	24.2	26.0	26.1	25.8	24.8	23.8	24.4	24.8
of which:																						
Bulgaria	77	80	76	80	83	75	70	68	65	68	70	2.3	1.8	1.4	1.3	1.4	1.2	1.1	1.0	1.0	1.0	1.0
Poland	144	152	187	203	210	237	217	189	191	191	184	4.2	3.5	3.3	3.4	3.4	3.8	3.6	2.9	2.9	2.8	2.7
USSR*	375	450	700	900	1,010	1,020	1,000	1,025	980	1,000	970	11.1	10.3	12.5	14.8	16.4	16.2	16.3	15.9	14.6	14.6	14.3
China, P.R.*	70	90	100	110	120	155	150	160	190	200	220	2.1	2.1	1.8	1.8	1.9	2.5	2.4	2.5	2.8	2.9	3.2
Korea, P.R.*	75	90	130	160	160	135	130	140	150	185	225	2.2	2.1	2.3	2.6	2.6	2.1	2.1	2.2	2.2	2.7	3.3
Other*	5	8	15	18	21	22	20	19	19	20	16	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(1) For comparative purposes, total figures for the EEC include twelve member States for the whole period.

* Estimates

Definition: Zinc content by analysis of zinc ores and concentrates, plus the zinc content of other ores and concentrates known to be intended for zinc recovery.

Source: International Lead and Zinc Study Group

TABLE 2

WORLD PRODUCTION OF REFINED ZINC, 1960-1986

	Thousand metric tons											Percentages of world production										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	3,156	4,063	5,234	5,826	5,461	6,434	6,162	6,332	6,591	6,779	6,670	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries	231	319	447	454	592	745	686	911	927	1,011	1,026	7.4	7.9	8.5	7.9	10.8	11.6	11.2	14.4	14.1	14.9	15.4
of which:																						
Algeria	-	-	-	-	5	23	25	31	35	35	30	-	-	-	-	0.1	0.4	0.4	0.5	0.5	0.5	0.5
Argentina	17	23	29	33	40	41	28	34	29	31	29	0.6	0.6	0.6	0.5	0.7	0.6	0.5	0.5	0.4	0.5	0.4
Brazil	-	-	9	22	32	64	78	100	107	116	130	-	-	0.1	0.4	0.6	1.0	1.3	1.6	1.6	1.7	2.0
India	-	-	23	13	26	63	44	54	56	71	74	-	-	0.4	0.2	0.5	1.0	0.7	0.8	0.9	1.1	1.1
Korea, Rep.of	-	-	2	13	21	81	76	106	106	109	126	-	-	0.0	0.2	0.4	1.3	1.2	1.7	1.6	1.6	1.9
Mexico	53	63	85	71	154	160	145	175	180	182	176	1.7	1.6	1.6	1.2	2.8	2.5	2.4	2.8	2.7	2.7	2.6
Peru	32	63	71	70	63	68	66	154	149	163	156	1.0	1.5	1.4	1.2	1.1	1.0	1.1	2.4	2.3	2.4	2.3
Romania	10	20	50	50	49	47	46	42	48	41	43	0.3	0.5	1.0	0.8	0.9	0.7	0.7	0.7	0.7	0.6	0.6
Thailand	-	-	-	-	-	-	-	-	4	59	59	-	-	-	-	-	-	-	-	0.1	0.9	0.9
Turkey	-	-	-	-	-	17	13	14	20	22	15	-	-	-	-	-	0.3	0.2	0.2	0.3	0.3	0.2
Yugoslavia	36	46	61	63	89	99	86	100	103	95	102	1.1	1.1	1.2	1.2	1.6	1.5	1.4	1.6	1.6	1.4	1.5
Zambia	30	47	53	53	47	38	33	38	29	23	22	1.0	1.2	1.0	1.0	0.9	0.6	0.5	0.6	0.4	0.3	0.3
Zaire	53	57	64	66	66	44	44	63	66	64	64	1.7	1.4	1.2	1.2	1.2	0.7	0.7	1.0	1.0	0.9	1.0
Developed countries	2,217	2,839	3,574	3,857	3,214	4,004	3,822	3,779	4,008	4,026	3,888	70.2	69.8	68.3	66.1	58.9	62.2	62.0	59.7	60.8	59.4	58.3
of which																						
Australia	122	202	268	306	200	310	306	303	306	293	310	3.9	5.0	5.1	5.3	3.7	4.8	5.0	4.8	4.8	4.3	4.7
Austria	12	13	16	17	17	23	22	24	24	25	24	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Canada	237	325	418	533	426	580	592	617	683	692	571	7.5	8.0	8.0	0.2	7.8	9.0	9.6	9.7	10.4	10.2	8.6
EEE (1)	827	892	1,180	1,333	1,188	1,476	1,490	1,497	1,567	1,588	1,633	26.2	21.9	22.6	22.8	21.8	22.9	24.2	23.6	23.7	23.4	24.5
Belgium/Luxembourg	246	238	232	277	228	252	247	263	271	271	269	7.8	5.9	4.4	4.8	4.2	3.9	4.0	4.2	4.1	4.0	4.0
France	149	192	224	258	181	249	253	249	259	247	257	4.7	4.7	4.3	4.4	3.3	3.9	4.1	3.9	3.9	3.4	3.9
Germany, F.R.	192	178	301	395	295	356	365	356	356	367	371	6.1	4.4	5.8	6.8	5.4	5.5	5.9	5.6	5.4	5.4	5.6
Italy	85	81	142	182	180	203	207	156	167	210	230	2.7	2.0	2.7	3.1	3.3	3.1	3.4	2.5	2.5	3.1	3.5
Netherlands	36	42	47	31	116	154	169	187	210	203	198	1.1	1.0	0.9	0.5	2.1	2.4	2.7	3.0	3.2	3.0	3.0
Portugal	-	-	-	-	-	-	2	4	6	6	6	-	-	-	-	-	-	0.1	0.1	0.1	1.0	1.0
Spain	45	54	88	106	135	186	162	198	212	211	216	1.4	1.3	1.7	1.7	2.5	2.9	2.6	3.1	3.2	3.1	3.2
United Kingdom	74	107	146	84	53	76	87	88	86	74	86	2.3	2.6	2.8	1.4	1.0	1.2	1.4	1.4	1.3	1.1	1.3
Finland	-	-	56	81	110	147	147	155	159	161	155	-	-	1.1	1.4	2.0	2.3	2.4	2.5	2.4	2.4	2.3
Japan	187	376	681	844	698	789	735	701	754	740	708	5.9	9.2	13.0	14.4	12.8	12.3	11.9	11.1	11.4	10.9	10.6
Norway	44	53	62	81	61	78	79	91	94	93	90	1.4	1.3	1.2	1.4	1.1	1.2	1.3	1.4	1.4	1.4	1.4
South Africa	-	-	27	57	64	75	81	82	90	94	81	-	-	0.5	1.0	1.2	1.2	1.3	1.3	1.4	1.4	1.2
United States	788	978	866	605	450	526	370	305	331	334	316	25.0	24.1	16.5	10.4	8.2	8.2	6.0	4.8	5.0	4.9	4.7
Centrally-planned economies	708	905	1,213	1,515	1,655	1,685	1,654	1,640	1,651	1,742	1,756	22.4	22.3	23.2	26.0	30.3	26.2	26.8	25.9	25.1	25.7	26.3
of which:																						
Bulgaria	17	66	76	80	92	89	91	93	93	90	90	0.5	1.6	1.5	1.4	1.7	1.4	1.5	1.5	1.4	1.3	1.4
Poland	176	190	209	235	243	209	217	170	176	180	179	5.6	4.7	4.0	4.0	4.4	3.2	3.5	2.7	2.7	2.7	2.7
USSR*	400	475	725	940	1,030	1,080	1,060	1,060	1,050	1,050	1,030	12.7	11.7	13.9	16.1	18.9	16.8	17.2	16.8	15.9	15.5	15.4
China, P.R.*	70	90	100	110	125	160	155	185	190	215	220	2.2	2.2	1.9	1.9	2.3	2.5	2.5	2.9	2.9	3.2	3.3
Korea, P.D.R.*	45	70	90	130	140	120	105	105	115	180	210	1.4	1.7	1.7	2.2	2.6	1.9	1.7	1.6	1.7	2.7	3.2
Other	-	14	13	20	25	27	26	27	27	27	27	-	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4

(1) For comparative purposes, total figures for the EEC include twelve member States for the whole period.

* Estimates

Definition: Total production by smelters and refineries of zinc in marketable form or used directly for alloying including production on toll in the reporting country, regardless of the type of source material, i.e. whether ores, concentrates, residues, slags or scrap. Remelted zinc and zinc dust are excluded.

Source: International Lead and Zinc Study Group

TABLE 3

WORLD CONSUMPTION OF REFINED ZINC 1960-1986

	Thousand metric tons											Percentages of world consumption										
	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986	1960	1965	1970	1973	1975	1979	1980	1983	1984	1985	1986
World	3,114	4,099	5,013	6,195	5,042	6,427	6,208	6,367	6,577	6,577	6,767	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Developing countries	215	289	473	621	637	975	935	1,030	1,102	1,149	1,262	7.0	7.0	9.4	10.1	12.4	15.2	15.0	16.2	16.8	17.5	18.7
of which:																						
Argentina	17	27	34	37	42	43	31	30	29	26	29	0.5	0.6	0.7	0.6	0.8	0.7	0.5	0.5	0.4	0.4	0.4
Brazil	31	32	53	80	91	123	134	102	114	141	151	1.0	0.8	1.1	1.3	1.8	1.9	2.1	1.6	1.7	2.1	2.2
India	60	70	90	90	82	116	95	125	130	130	135	1.9	1.7	1.8	1.5	1.6	1.8	1.5	2.0	2.0	2.0	2.0
Indonesia	0	0	4	20	20	45	50	60	45	51	48	0.0	0.0	0.1	0.3	0.4	0.7	0.8	0.9	0.7	0.8	0.7
Korea, Rep.of	3	4	12	23	35	73	68	109	124	120	152	0.1	0.1	0.2	0.4	0.7	1.1	1.1	1.7	1.9	1.8	2.3
Mexico	23	33	47	59	53	83	89	88	101	101	92	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.4	1.5	1.5	1.4
Peru	2	5	5	10	9	29	23	16	33	41	51	0.1	0.1	0.1	0.2	0.2	0.5	0.4	0.3	0.5	0.6	0.8
Rowania	8	11	32	40	50	61	60	49	47	41	43	0.3	0.3	0.6	0.6	1.0	1.0	1.0	0.7	0.7	0.6	0.6
Thailand	8	11	17	21	17	33	37	41	36	42	47	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.7
Yugoslavia	27	44	57	64	65	66	73	90	102	105	90	0.9	1.1	1.1	2.0	1.3	1.0	1.2	1.4	1.6	1.6	1.3
Other	36	52	122	177	173	303	275	320	341	351	424	1.2	1.2	2.5	2.9	3.4	4.7	4.4	5.0	5.2	5.5	6.3
Developed countries	2,256	3,011	3,457	4,258	2,945	3,828	3,605	3,582	3,668	3,650	3,716	72.4	73.5	69.0	68.7	58.4	59.5	58.1	56.3	55.7	55.5	54.9
of which:																						
Australia	97	102	115	121	82	99	96	83	77	87	86	3.1	2.5	2.3	2.0	1.6	1.6	1.5	1.3	1.2	1.3	1.3
Austria	13	17	23	21	24	25	27	27	31	32	33	0.4	0.4	0.5	0.3	0.5	0.4	0.4	0.4	0.5	0.5	0.5
Canada	51	85	96	127	126	156	133	144	146	156	153	1.6	2.1	1.9	2.1	2.5	2.4	2.1	2.3	2.2	2.4	2.3
EEC (1)	1,011	1,130	1,337	1,604	1,127	1,497	1,496	1,434	1,450	1,424	1,482	32.4	27.6	26.7	25.8	22.3	23.3	24.1	22.5	22.1	21.7	21.9
Belgium/Luxembourg	105	123	128	180	103	139	155	166	156	169	172	3.4	3.0	2.6	2.9	2.0	2.2	2.5	2.6	2.4	2.6	2.5
Denmark	12	11	12	13	11	16	15	9	10	12	12	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
France	172	186	220	290	223	287	330	271	282	247	260	5.5	4.5	4.4	4.7	4.4	4.5	5.3	4.3	4.3	3.8	3.8
Germany, F.R.	297	330	396	438	297	417	406	405	425	410	434	9.5	8.0	7.9	7.1	5.9	6.5	6.6	6.4	6.5	6.2	6.4
Greece	4	6	8	15	12	21	19	11	12	15	15	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2
Ireland	2	1	3	5	4	4	4	2	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-
Italy	85	116	178	220	150	225	236	208	210	218	232	2.7	2.8	3.5	3.5	3.0	3.5	3.8	3.3	3.2	3.3	3.4
Netherlands	26	31	37	36	34	51	45	54	60	51	54	0.8	0.8	0.7	0.6	0.7	0.8	0.7	0.9	0.9	0.8	0.8
Portugal	1	1	10	11	8	14	17	9	11	9	10	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.1	0.2
Spain	32	44	77	102	86	98	105	107	101	103	110	1.0	1.1	1.6	1.6	1.7	1.5	1.7	1.7	1.4	1.6	1.6
United Kingdom	176	282	278	305	207	239	181	177	182	189	182	8.9	6.9	5.5	4.9	4.1	3.7	2.9	2.8	2.7	2.9	2.7
Finland	5	6	9	16	16	22	25	26	22	26	26	0.2	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4
Japan	189	330	638	814	563	779	752	771	774	780	753	6.1	8.0	12.7	13.1	11.2	12.1	12.1	12.1	11.7	11.9	11.1
New Zealand	2	3	15	21	15	20	16	19	20	21	20	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Norway	14	19	24	26	20	19	20	22	20	21	19	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3
South Africa, Rep.of	28	37	55	62	65	78	84	83	90	84	83	0.9	0.9	1.1	1.0	1.3	1.2	1.4	1.3	1.4	1.3	1.2
Sweden	31	34	34	43	44	41	35	34	37	31	32	1.0	0.8	0.7	0.7	0.9	0.6	0.6	0.5	0.6	0.5	0.5
Switzerland	24	26	27	28	16	21	25	20	21	26	30	0.8	0.6	0.5	0.5	0.3	0.3	0.4	0.3	0.3	0.4	0.4
United States	790	1,221	1,074	1,364	839	1,057	879	934	980	962	999	25.3	29.8	21.4	22.0	16.6	16.5	14.2	14.7	14.9	14.6	14.8
Centrally-planned economies	643	799	1,083	1,316	1,460	1,624	1,668	1,755	1,807	1,778	1,789	20.6	19.5	21.6	21.2	29.0	25.3	26.9	27.6	27.5	27.0	26.4
of which:																						
Bulgaria	7	14	28	40	40	64	65	75	80	75	73	0.2	0.3	0.5	0.6	0.8	1.0	1.0	1.3	1.2	1.1	1.1
Czechoslovakia	36	41	45	55	74	65	67	56	58	58	61	1.2	1.0	0.9	0.9	1.5	1.0	1.1	0.8	0.9	0.9	0.9
German D.R.*	35	59	52	55	63	68	68	70	75	76	74	1.1	1.4	1.0	0.9	1.2	1.1	1.1	1.1	1.1	1.2	1.1
Poland	94	114	129	149	162	176	178	143	154	157	157	3.0	2.8	2.6	2.4	3.2	2.7	2.9	2.3	2.3	2.4	2.3
USSR*	375	450	680	840	900	1,000	1,030	1,050	1,050	1,000	990	12.0	11.0	13.6	13.6	17.9	15.6	16.6	16.5	16.0	15.2	14.6
China, P.R.*	80	100	115	125	160	190	200	290	330	350	360	2.6	2.5	2.3	2.0	3.2	3.0	3.2	4.5	5.0	5.3	5.3
Other*	16	21	34	52	61	61	60	67	60	62	74	0.5	0.5	0.7	0.8	1.2	0.9	1.0	1.1	1.0	0.9	1.1

(1) For comparative purposes, total figures for the EEC include twelve member States for the whole period.

* Estimates

Definition: Total consumption of refined metallic zinc including zinc used directly for the production of zinc alloys, regardless of the type of source material from which produced, i.e. ores, concentrates, residues, slags or scrap. Remelted zinc and zinc dust are excluded.

Source: International Lead and Zinc Study Group

TABLE 4

DIRECTION OF TRADE BY MAIN EXPORTING AND IMPORTING COUNTRIES, ZINC ORES AND CONCENTRATES, 1986

Principal exporters			Principal importers		
Country	'000 tons metal content	%	Country	'000 tons, metal content	%
Australia	433	100.0	EEC (gross weight)	2,039 (1,310)	100.0
to: Japan	254	58.7	from: Canada	671	32.9
EEC	68	15.7	Peru	413	20.3
Korea, Rep.of	33	7.6	Australia	299	14.7
India	5	1.2	Sweden	222	10.9
Others	73	16.9	Mexico	119	5.8
			Bolivia	60	2.9
Peru (1985)	388	100.0	Honduras	40	2.0
			Morocco	26	1.3
to: EEC	144	36.0	Turkey	22	1.0
Japan	108	27.0	Others	167	8.2
United States	25	6.3			
Others	123	30.7	Japan	436	100.0
Canada	394	100.0	from: Australia	236	54.1
			Peru	108	24.8
to: EEC	259	65.7	Canada	62	14.2
Japan	52	13.2	Mexico	7	1.6
United States	15	3.8	Korea, Dem.Rep.	5	1.1
USSR	10	2.5	Others	18	4.1
Others	58	14.7			
			Finland	109	100.0
Sweden	217	100.0			
			from: Sweden	39	35.8
to: EEC	72	33.2	EEC(Greenland)	14	12.8
Finland	39	18.0	Others	56	51.4
Norway	39	18.0			
Others	67	30.9	Korea, Rep.of*	85	100.0
			from: Australia	81	95.2
			Others	4	4.8

*Estimates

Source: International Lead and Zinc Study Group
Metallgesellschaft, Metallstatistik 1976-1986, Frankfurt am Main
Statistical Office of the European Communities, External Trade (Analytical Tables - Nimexe 1986), I 74-83 Export, Luxembourg

TABLE 5

DIRECTION OF TRADE BY MAIN EXPORTING AND IMPORTING COUNTRIES, REFINED ZINC, 1986

Principal exporters			Principal importers		
Country	'000 tons metal content	%	Country	'000 tons, metal content	%
Canada	427	100.0	United States	667	100.0
to: United States	333	78.0	from: Canada	349	52.3
EEC	29	6.8	EEC	91	13.6
India	4	0.9	Mexico	52	7.8
China	2	0.5	Peru	44	6.6
Others	59	13.8	Australia	41	6.2
			Finland	23	3.5
Australia	218	100.0	Zaire	16	2.4
			Others	51	7.7
to: Indonesia	38	17.4			
Taiwan	35	16.1	EEC	138	100.0
United States	34	15.6			
Hong Kong	16	7.3	from: Finland	49	35.5
New Zealand	12	5.5	Norway	34	24.6
Malaysia	10	4.6	Canada	30	21.7
India	10	4.6	Poland	9	6.5
EEC	6	2.8	Zaire	3	2.2
China	6	2.8	Algeria	2	1.4
Others	51	23.4	Others	11	8.0
EEC	209	100.0	Japan	92	100.0
to: United States	69	33.0	from: Korea, Dem.Rep.	39	42.4
Turkey	19	9.1	Peru	15	16.3
Switzerland	17	8.1	China	8	8.7
China	13	6.2	Australia	10	10.9
USSR	9	4.3	Others	20	21.7
Canada	8	3.8			
Brazil	5	2.4	India*	(69)[1]	
Pakistan	4	1.9		(59)[2]	100.0
Czechoslovakia	4	1.9			
Others	61	29.2	from: EEC	15	25.4
			Zambia	10	17.0
Finland	119	100.0	Others	34	57.6
to: EEC	45	37.8	Indonesia*	55	100.0
United States	22	18.5			
Sweden	13	10.9	from: Australia	45	81.8
Others	39	32.8	Others	10	18.2
Peru	105	100.0			
to: United States	44	41.9			
China	7	6.7			
Others	54	51.4			
Mexico	81	100.0			
to: United States	52	64.2			
Others	29	35.8			

[1] 1985 figures.

[2] 1984-1985 figures.

* Estimates

Source: International Lead and Zinc Study Group
Metallgesellschaft, Metallstatistik 1976-1986, Frankfurt am Main
Statistical Office of the European Communities, External Trade (Analytical Tables - Nimexe 1986), I, 74-83 Import, Luxembourg

TABLE 6

NON-TARIFF MEASURES AFFECTING TRADE IN ZINC AND ARTICLES THEREOF

Non-tariff measures	Product	Country(ies) maintaining the measure
I. On exports		
Export embargo	Ash and residues containing metals (CCCN 26.03)	Austria
	Metallic ores and concentrates (CCCN ex 26.03)	Canada, Indonesia
	Zinc and articles thereof (CCCN ex 79)	Pakistan, Canada
	Zinc unwrought and waste (CCCN ex 79.01)	Colombia
Export restraints	Zinc, unwrought and waste (CCCN ex 79.01)	Austria, Dominican Republic
	Ash and residues containing metals (CCCN ex 26.03)	EEC, Finland
	Zinc and articles thereof (CCCN ex 79)	Malaysia
	Zinc, unwrought and waste (CCCN ex 79.01)	Korea, Rep. of, Malaysia, New Zealand, Yugoslavia
	Metallic ores and concentrates (CCCN ex 26.01)	Zew Zealand
Export taxes	Metallic ores and concentrates (CCCN ex 26.01)	Canada, Haiti
	Ash and residues containing metals (CCCN ex 26.03)	Switzerland
	Zinc, unwrought and waste (CCC ex 79.01)	Switzerland
	Zinc and articles thereof (CCCN ex 79)	Canada
Export controls	Zinc products	Australia
II. On imports		
Prohibition	Zinc waste (CCCN 79.01)	Bangladesh
	Tubes and pipes of zinc (CCCN 79.04)	Senegal
	Metallic ores and concentrates (CCCN ex 26.01)	Pakistan
	Ash and residues containing metals (CCCN ex 26.03)	Pakistan
Quotas (unspecified)	Zinc ores (CCCN 26.01.8a)	Yugoslavia
	Zinc concentrates (CCCN 26.01.8b)	Yugoslavia
	Zinc unwrought (CCCN 79.01)	Yugoslavia
	Zinc and articles thereof (CCCN 79)	Senegal
	Chlorides and oxychlorides (CCCN ex 28.30)	Yugoslavia
Quantitative restrictions, licensing	Zinc oxide and zinc peroxide (CCCN 28.19)	EEC (Italy)[1]
	Zinc, unwrought and waste (CCCN 79.01)	EEC(Benelux,Italy)[1]
	Wrought bars, rods etc. of zinc (CCCN 79.02)	EEC(Italy)[1]
	Wrought plates, sheets and strip (CCCN ex 79.03)	EEC(Benelux,Germany,Fed.Rep, Italy)[1]
	Tubes and pipes of zinc (CCCN 79.04)	EEC(Italy)[1]
	Other articles of zinc (CCCN ex 79.06)	EEC(Italy)[1]
	Metallic ores and concentrates (CCCN 26.01)	India, Japan,Switzerland
	Zinc oxide and zinc peroxide (CCCN ex 28.19)	Sweden
	Zinc and articles thereof (CCCN ex 79)	India, Turkey

Non-tariff measures	Product	Country(ies) maintaining the measure
Licensing (unspecified)	Metallic ores and concentrates (CCCN ex 26.01)	Malawi
Liberal licensing	Metallic ores and concentrates (CCCN 26.01)	Korea, Rep. of, Switzerland
	Zinc unwrought and waste (CCCN ex 79.01)	Korea, Rep. of
Automatic licensing	Ash and residues containing metals or metallic compounds (CCCN 26.03)	South Africa
	Zinc oxide (CCCN 28.19)	New Zealand
	Zinc oxide and zinc peroxide (CCCN 28.19)	South Africa
	Chlorides and oxychlorides (CCCN ex 28.30)	South Africa, Switzerland
Non-automatic licensing	Metallic ores, slag and ash (CCCN 26)	Colombia, New Zealand, Peru, Sri Lanka, Tunisia, Zambia
	Zinc ores and concentrates (CCCN 26.01.08.00.00)	Argentina
	Ash and residues containing metals or metallic compounds (CCCN 26.03)	Argentina, Colombia, Peru, Sri Lanka, Tunisia, Turkey
	Zinc waste and scrap (CCCN 79.01.01.00.00)	Argentina
	Alloyed zinc (CCCN 79.01.02.00)	Colombia
	Zinc unwrought and waste (CCCN 79.01)	Colombia, Peru, Turkey
	Zinc waste and scrap (CCCN 79.01)	Ghana
	Wrought bars, rods, etc. of zinc, zinc wire (CCC 79.01)	Ghana, Peru, Turkey
	Wrought plates, sheets and strips of zinc (CCC 79.03)	Colombia, Ghana, Peru
	Tubes and pipes of zinc (CCCN 79.04)	Colombia,Ghana,Peru,Tunisia
	Other articles of zinc (CCCN 79.06)	Brazil, Colombia, Ghana, Nigeria, Peru, Tunisia
	Household articles of zinc (CCCN 79.06.00.01.00)	Argentina
	Zinc oxide and zinc peroxide (CCCN 28.19)	Argentina
	Zinc oxide (CCCN 28.19)	Colombia, India
	Zinc chloride (CCCN 28.30)	Argentina, Colombia, India
	Sulphides, polysulphides, other (CCCN 28.35,01.99)	Colombia
	Sulphides, polysulphides (CCCN ex 28.35)	Argentina, India, Sri Lanka
	Zinc sulphate (CCCN 28.38C)	Tunisia
	Zinc oxide and peroxide (CCCN 28.19)	Peru
	Zinc chloride (CCCN 28.30.01.05)	Peru
	Zinc unwrought and waste (CCCN 79.01)	Brazil
	Wrought bars, rods, etc. of zinc, zinc wire (CCCN 79.02)	Brazil
	Wrought plates, sheets and strip of zinc (CCCN 79.03)	Brazil, Turkey
	Tubes and pipes of zinc (CCCN 79.04)	Brazil
Licence suspended (temporarily)	Other articles of zinc (CCCN 79.06.01.00, 06.00, 07.00)	Brazil
	Zinc oxide and zinc peroxide (CCCN 28.29)	Brazil
	Zinc unwrought and waste (CCCN ex 79.01)	Korea, Rep. of

Non-tariff measures	Product	Country(ies) maintaining the measure
Restriction (unspecified)	Zinc oxide for paint and pharmaceutical industries (CCCN 28.19.110)	Indonesia
	Other zinc oxide (CCCN 28.19.190)	Indonesia
	Zinc chloride (CCCN 28.30)	Indonesia
	Metallic ores and concentrates (CCCN ex 26.01)	Thailand
State-trading	Metallic ores, slag and ash (CCCN ex 26)	India
	Zinc unwrought and waste (CCCN 79.01)	India
	Wrought bars, rods, etc. of zinc, zinc wire (CCCN 79.02)	India
	Wrought plates, sheets and strip of zinc (CCCN 79.03)	India
	Tubes and pipes of zinc (CCCN 79.04)	India
	Zinc unwrought and waste (CCCN ex 79.01)	Tunisia
	Zinc and articles thereof (CCCN ex 79)	India
	Metallic ores and concentrates (CCCN ex 26.01)	Tunisia
	Sulphides, polysulphides (CCCN 28.35)	Sri Lanka
Border tax adjustments	Metallic ores and concentrates (CCCN 26.01)	EEC
Domestic price measures	Metallic ores and concentrates (CCCN ex 26.01)	Brazil
Surcharges, port taxes, etc	Metallic ores and concentrates (CCCN ex 26.01)	Austria

[1] Quantitative restrictions applied on products originating in State-trading countries

Source: NTM/W/17/Add.2
NTM/W/6/Rev.4
NTM/W/17/Add.2/Corr.1
NTM/INV/I-V/Add.17
L/5640/Add.29/Rev.1
L/5640/Add.34
L/6209
L/6225
L/6235

Table 7

SUMMARY OF THE POST-TOKYO ROUND TARIFFS AFFECTING ZINC AND ARTICLES THEREOF APPLIED BY DEVELOPED COUNTRIES BASED ON THE HARMONISED SYSTEM OF COMMODITY DESCRIPTION AND CLASSIFICATION

Heading No.	H.S. Code	Description	Australia 1)	Austria	Canada	EEC	Finland	Japan	New Zealand 2)	Norway	Sweden	Switzerland	United States 3)
26.08	2608.00	Zinc ores and concentrates	2% U	Free B	10.4% B A: Free	Free B	Free B	Free B	Free B	Free B	Free B	Free B	1.7 cts/kg on Pb content +0.7¢/kg on Zn content
26.20		Ash and residues (other than from the manufacture of iron or steel), containing metals or metallic compounds.											
		- Containing mainly zinc:											
	2620.11	-- Hard zinc spelter	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	1.5%
	2620.19	-- Other	2% U	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	Free B	1.3 cts/kg,0.7¢/kg on Cu content+ 0.7¢/kg on Pb content 8)
28.17	2817.00	Zinc oxide; zinc peroxide	2% U	7% B	10.5% B	11% B	Free B, 16% B	6.5% B A: 5.2%	Free U	Nok0.14/kg B, Free B	Free B	SwF1.40/100kg B	Free
28.27		Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides.											
		- Other chlorides:											
	2827.36	-- Of zinc	15% U *	3%+935,30 B A: Free	12.5% B	6% B	Free B	5.8% B 5) A: 4.6%	Free B	Free B	Free B	SwF0.50/100kg B	1.6%
		- Chloride oxides and chloride hydroxides:											
	2827.49	-- Other	2% U	Free B	12.5% B	5.3% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF0.50/100kg B	7%
		- Bromides and bromide oxides:											
	2827.59	-- Other	2% U	Free B	Free B	6.9% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B	SwF2.50/100kg B	3.7%
	2827.60	- Iodides and iodide oxides	2% U	Free B	12.5% B	6.9% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.50/100kg B	4.2%
28.29		Chlorates and perchlorates; bromates and perbromates; iodites and periodites.											
		- Chlorates:											
	2829.19	-- Other	2% U	6% B	12.5% B	8% B	Free B	4.9% B 5) A: 3.9%	Free B	Free B	Free B	SwF1.90/100kg B	3.3%
	2829.90	- Other	2% U	Free B	Free B	4.8% B, 6.9% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B, (5.8% B 4)	SwF2.40/100kg B	3.7%
28.30		Sulphides; polysulphides.											
	2830.20	- Zinc sulphide	2% U	6% B	Free B	6.9% B	Free B	3.7% B 5) A: 3%	Free B	Free B	Free B	SwF0.50/100kg B	2.8%
28.33		Sulphates; alums; peroxosulphates (persulphates).											
		- Other sulphates:											
	2833.26	-- Of zinc	15% U *	8% B	9.2% B	9% B	Free B	5.8% B 5) A: 4.6%	Free B	Free B	Free B	SwF0.70/100kg B	1.6%
28.34		Nitrites; nitrates.											
	2834.10	- Nitrites	2% U	Free B	8% B	7% B	Free B	4.9% B 5) A: 3.9%	Free B	Free B	5.8% B A: Free	SwF1.10/100kg B	3.1%
		- Nitrates:											
	2834.29	-- Other	2% U	Free B	12.5% B	3% B	Free B	4.9% B 5) A: 3.9%	Free B	Free B	Free B	SwF1.50/100kg B	3.5%

28.36		Carbonates; peroxocarbonates(percarbonates); commercial ammonium carbonate containing ammonium carbamate.													
		- Other:													
	2836.99	-- Other	2% U	Free B	12.5% B	6.6% B, 8% B	1% B A: Free	4.9% B 5) A: 3.9%	Free B	Free B	Free B	SwF2.40/100kg B	3.7%		
28.37		Cyanides, cyanide oxides and complex cyanides.													
		- Cyanides and cyanide oxides:													
	2837.19	-- Other	Free U	Free B	Free B	6.2% B	Free B	4.9% B 5) A: 3.9%	Free B	Free B	Free B	SwF0.75/100kg B	Free		
	2837.20	- Complex cyanides	Free U	Free B	Free B	12% B	Free B	4.9% B 5) A: 3.9%	Free B	Free B	Free B	SwF0.75/100kg B	1.7%		
28.38	2838.00	Fulminates, cyanates and thiocyanates.	2% U	Free B	12.5% B	6.3% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF1.50/100kg B	3.1%		
28.42		Other salts of inorganic acids or peroxoacids, excluding azides.													
	2842.10	- Double or complex silicates	2% U	Free B	Free B	6% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.00/100kg B	3.7%		
	2842.90	- Other	2% U	Free B	12.5% B	6.2% B	Free B	4.9% B A: 3.9%	Free B	Free B	Free B	SwF2.00/100kg B	3.3%		
79.01		Unwrought zinc.													
		- Zinc, not alloyed:													
	7901.11	-- Containing by weight 99.99% or more of zinc	2% U	2% B	Free B	3.5% B	Free B	8yen/kg B A: 6)	Free B,5% B	Free B	Free C	SwF0.10/100kg B	1.5%		
	7901.12	-- Containing by weight less than 99.99% of zinc	2% U	2% B	Free B	3.5% B	Free B	8yen/kg B A: 6)	Free B,5% B	Free B	Free B	SwF0.10/100kg B	1.5%, 19%		
	7901.20	- Zinc alloys	2% U	2% B	Free B, 17.5% B	3.5% B	Free B	17.20yen/kg B, A:6.24yen/kg; 17.80yen/kg B, A:5.76yen/kg; Free B	Free B,5% B	Free B	Free B	SwF0.10/100kg B	19%		
79.02	7902.00	Zinc waste and scrap.	2% U	Free B	Free B	Free B	Free B	1.9% B A: Free	Free B	Free B	Free B	SwF0.20/100kg B	12.1% A:Free		
79.03		Zinc dust, powders and flakes.													
	7903.10	- Zinc dust	10% U *	8% B	Free B	4.4% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B	SwF0.25/100kg B	0.7 cts/kg		
	7903.90	- Other	2% U	8% B	4%B, 10.2%B	4.4% B	Free B	5.8% B A: 4.6%	Free B	Free B	Free B	SwF0.25/100kg B	9.5%		
79.04	7904.00	Zinc bars, rods, profiles and wire.	2% U	6% B	Free B, 8% B, 10.2% B	8% B	Free B	4.8% B A: 3.8%	Free B, 5% B	7) Free B	Free B	SwF4.00/100kg B	4.2%		
79.05	7905.00	Zinc plates, sheets, strip and foil.	2% U	7% B	Free B,5.5% B, 10.2% B	8% B	Free B	7.2% B A: 5.8%	5% B	7) 2.2% B	Free B	SwF4.00/100kg B	4.2%		
79.06	7906.00	Zinc tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).	2% U	7% B	10.2% B	8% B	Free B	4.8% B A: 3.8%	Free B	Free B	Free B	SwF4.00/100kg B	3.8%		

79.07		Other articles of zinc:											
	7907.10	- Gutters, roof capping, skylight frames and other fabricated building components	20% U	7% B	10.2% B	7% B	5.1% B	4.9% B A: 3.9%	50% B A: 25.5%	3.8% B	Free B	SwF17.00/100kg B	5.7%
	7907.90	- Other	20% U	8% B	Free B,5.5% B, 10.2% B	7% B	5.1% B	5.8% B A: 4.6%	50% B A: 25.5%	3.8% B	Free B, 3.2% B	SwF18.00/100kg B, SwF46.00/100kg B	3.4%,5.7%

B: Bound rate.
U: Unbound rate.
A: Applied rate.
1) Australian tariff rates indicate rates stated in the Combined Australian Customs Tariff and Statistical Nomenclature, issued by the Australian Customs Service, in force since 1 January 1988. Tariff lines with "asterix" are foreseen for reductions in stages until 1992.
2) New Zealand's tariff rates indicate rates given in the Customs Tariff of New Zealand-1988, issued by the New Zealand Customs Department. Tariff lines with "asterix" are foreseen for reductions in stages until 1990 or 1992.
3) The Harmonised System comes into force 1st January 1989. The United States will present its Schedule based on the HS at a later stage.
4) Perchlorates: bound at 5.8%.
5) These items come under the Poisonous and Deleterious Substance Control Law.
6) Under the Japanese sliding tariff system, tariff duties increase/decrease with the decrease/increase in prices of refined zinc.
7) Zinc plates, sheets, strip and foil, perforated but not further worked, bound at 7.5%;
hollow profiles, bound Free.
8) Duty on zinc dross and zinc skimmings temporarily suspended.