

Table 1. 3. : Developing countries exports and imports of minerals and metals by SITC headings

	Exports (fob)					Imports (cif)								
	1994	1996	1997	1998	1999	1994	1996	1997	1998	1999				
	(million US\$ and % of the world total)													
		%				%		%			%			
Minerals and metals ¹	35'356	28.1	44'030	48'113	43'126	43'581	29.1	38'110	26.6	49'776	53'755	46'658	47'903	28.3
Minerals ²	3'692	30.1	4'106	4'317	4'345	4'641	37.5	4'367	27.5	4'779	5'070	4'428	4'276	25.3
Fertilizers crude	736	64.2	919	1'043	1'093	1'139	75.2	591	37.0	690	755	782	732	38.1
Animal/veget. fertilizers	25	29.4	27	27	25	25	29.4	21	19.1	26	25	28	22	15.7
Sodium nitrate	32	66.9	45	46	43	50	64.9	25	34.1	23	21	15	20	27.6
Phosphate rock	677	67.0	830	956	1'008	1'045	78.5	533	38.3	616	688	721	671	39.9
Potassium salts, natural	2	61.5	17	14	18	18	85.0	12	60.8	25	21	18	19	72.6
Stone and gravel	768	23.7	873	858	720	716	20.8	967	23.9	1'213	1'469	1'158	1'268	26.9
Marble	61	18.7	72	80	94	105	22.0	128	38.8	172	234	178	246	54.5
Granite	369	44.6	394	304	262	258	34.6	322	25.5	409	538	344	385	28.6
Gypsum, plaster...	150	27.6	189	213	157	141	23.9	216	28.5	267	293	251	243	27.2
Gravel, crushed stone....	87	9.4	109	106	111	104	10.8	125	11.6	158	162	193	163	14.0
Sands, natural	80	14.2	90	126	66	76	12.3	165	24.4	199	232	182	224	28.6
other	21	43.8	20	30	30	32	60.4	10	20.0	8	10	10	8	10.0
Sulphur	155	25.5	191	194	208	212	33.8	578	65.4	628	614	522	574	66.3
Sulphur	154	26.3	190	193	207	211	34.6	577	67.9	627	613	521	573	67.9
Pyrites unroasted	1	4.8	1	1	1	1	5.9	1	3.0	1	1	1	1	4.5
Natural abrasives	310	30.7	251	232	338	428	42.6	290	21.0	234	252	178	245	14.6
Industrial diamonds	234	51.0	145	138	252	341	59.0	92	18.5	47	64	49	109	11.8
Abrasives n.e.s, natural	75	13.7	106	94	86	88	20.5	198	22.5	187	189	129	136	17.9
Other crude minerals	1'724	27.4	1'871	1'991	1'986	2'146	37.2	1'941	24.3	2'015	1'980	1'789	1'457	18.9
Graphite	68	52.3	73	77	77	70	51.3	33	22.0	39	37	30	32	19.4
Dolomite	22	17.5	29	27	26	21	13.0	19	11.3	25	35	32	30	15.1
Magnesite/Magnesia	262	40.1	338	371	320	302	42.9	186	20.0	234	217	169	157	18.5
Kaolinic clays	103	8.4	122	142	153	173	12.9	326	21.4	321	349	311	315	20.3
Common salt	214	24.6	250	231	246	257	27.7	286	25.7	343	370	355	343	29.0
Asbestos	114	26.8	130	117	90	87	30.3	362	65.7	381	349	261	253	74.1
Mica	21	38.2	25	23	24	23	41.8	10	15.2	12	12	12	10	14.1
Fluorspar	130	76.6	186	200	203	185	80.4	29	14.3	46	36	44	46	16.3
Baryte	74	57.3	105	139	108	82	55.8	59	32.1	70	81	70	63	33.7
Borates/boric acid, natural	137	87.6	149	130	136	141	76.9	30.7	19.8	45	55	56	59	32.6
other	580	24.6	465	535	605	805	50.3	600	20.3	500	438	450	150	5.6
Ores and scrap materials³	12'717	35.2	16'335	16'784	15'023	14'755	37.4	11'827	25.9	14'882	16'158	13'860	14'091	28.0
Iron ore and conc.	3'601	46.7	4'155	4'365	4'554	3'920	46.8	2'992	27.3	3'702	4'409	3'966	3'552	31.2
Roasted iron pyrites	1	1.9	1	1	1	1	1.1	81	77.1	80	85	90	75	40.5

Iron ore not agglom.	2'474	46.8	2'688	2'796	2'894	2'424	45.1	2'312	28.9	2'759	3'231	2'895	2'389	30.2
Iron ore agglom.	1'126	47.3	1'466	1'568	1'659	1'495	51.3	599	20.9	863	1'093	981	1'088	33.0
Waste & scrap of iron/steel	471	7.7	554	656	603	586	10.4	3'590	45.3	3'696	3'809	2'896	2'885	42.5
Copper ores ...	2'965	68.9	4'611	4'327	3'440	3'690	79.5	1'137	23.4	1'697	1'722	1'721	2'214	39.5
Copper ores	2'876	69.0	4'551	4'275	3'385	3'647	80.4	1'122	23.5	1'683	1'707	1'706	2'199	39.9
Copper matte	82	67.0	52	47	50	37	40.3	11	12.2	13	13	14	14	18.4
Copper cement	7	54.6	8	5	6	7	57.9	4	50.0	2	1	1	1	4.5
Nickel ores..	659	45.7	1'034	956	706	955	55.6	119	7.6	184	192	150	174	10.4
Nickel ores	110	65.9	211	206	127	127	47.6	1	0.2	0	3	4	2	0.5
Nickel int. prod.	549	43.0	824	750	580	828	57.0	119	8.9	184	189	146	172	12.9
Aluminium ores..	1'832	39.5	2'068	2'150	1'878	1'824	34.8	1'265	24.0	1'367	1'472	1'365	1'373	22.2
Bauxite..	592	83.0	645	625	566	554	77.4	90	6.8	94	95	83	81	7.5
Alumina	1'241	31.6	1'422	1'525	1'312	1'269	28.1	1'175	29.6	1'273	1'377	1'282	1'292	25.3
Ores of uranium/thorium	270	68.4	240	280	250	250	59.5	2	0.3	2	2	2	2	0.4
Ores of base metals ...	1'472	36.1	1'898	2'133	1'843	1'770	33.1	1'120	22.6	1'662	1'742	1'497	1'499	25.7
Lead ores	200	53.1	262	226	203	185	37.0	76	16.7	140	115	183	171	30.5
Zinc ores	544	35.1	666	961	732	748	32.3	222	13.8	361	489	389	429	20.1
Tin ores	100	59.2	124	95	67	70	51.7	214	94.9	259	229	175	162	97.6
Manganese ores	223	41.1	286	263	323	295	52.3	178	25.8	252	261	199	187	31.1
Molybdenum... ores	232	20.5	294	377	334	297	20.3	316	20.7	449	472	408	428	23.5
Molybdenum ores	170	32.2	244	321	292	255	50.2	130	20.8	127	144	130	119	22.3
Titanium ores	54	16.8	33	31	22	25	4.6	115	19.1	184	206	151	163	21.0
Zirconium ores	3	1.3	8	7	9	6	1.9	63	28.7	114	94	102	92	28.1
Niobium... ores ⁴	6	11.0	10	18	12	11	12.8	8	10.3	24	27	26	54	29.3
other non-ferrous ores	173	55.7	267	211	184	177	46.1	113	24.7	201	177	143	122	21.7
Chromium ores	130	60.9	214	166	153	142	54.2	84	26.1	151	137	107	91	25.9
Tungsten ores	11	47.1	11	9	6	4	21.6	8	24.1	11	6	3	1	5.7
Cobalt ores	20	87.1	25	21	10	14	63.0	8	39.5	20	15	16	15	39.5
other	12	24.0	17	15	15	17	20.7	14	16.5	19	19	17	15	10.0
waste & scrap	1'212	18.8	1'499	1'683	1'560	1'542	23.0	1'594	20.1	2'546	2'777	2'235	2'328	24.1
Ashes & residues	400	36.9	420	530	600	600	70.6	312	18.5	450	400	474	192	8.1
Waste & scrap	812	15.2	1'079	1'153	960	942	16.1	1'282	20.5	2'096	2'377	1'761	2'136	29.3
Copper	503	17.6	680	696	531	523	20.8	756	21.9	1'338	1'366	959	1'168	35.6
Nickel	10	5.6	15	28	20	20	12.6	3	1.3	10	49	4	6	2.7
Aluminium	278	13.5	354	399	383	370	13.0	430	18.6	650	849	699	857	24.6
Lead	7	8.5	13	11	9	8	11.0	19	20.5	16	18	15	14	15.2
Zinc	10	6.9	14	18	15	16	7.3	71	51.2	79	93	82	89	45.9
Tin	4	17.3	4	3	3	6	15.3	4	22.1	4	2	2	2	8.6
Ores, scrap, sweepings of precious metals	235	23.4	276	233	189	216	15.4	8	0.5	26	33	30	66	2.4
ores and concentrates	218	64.3	256	201	150	167	39.2	3	0.8	11	4	13	39	5.4
waste and scrap (excl. gold)	17	2.5	20	32	39	49	5.0	4	0.4	16	29	17	27	1.4
Aluminium hydroxide⁵	27	7.4	28	30	31	39	8.8	110	27.8	133	142	129	242	39.8
Non-ferrous metals⁶	18'920	24.5	23'562	26'981	23'726	24'146	24.8	21'806	26.8	29'626	31'986	27'787	29'294	29.0
Precious metals	719	9.9	1'176	1'309	1'325	1'376	11.2	1'168	15.0	1'470	1'787	1'783	2'190	17.2

Silver	637	25.4	1'071	961	1'244	1'279	38.1	929	31.6	1'020	1'035	1'204	1'290	33.2
Platinum	82	1.7	105	348	81	97	1.1	239	4.9	450.9	752.5	578.9	899.3	10.2
Copper	8'791	34.9	11'545	12'939	10'977	11'008	40.8	9'231	35.9	12'799	13'352	11'376	11'219	41.0
unwrought	6'403	53.8	8'363	9'420	7'656	7'409	60.3	4'303	35.0	6'248	6'452	5'345	5'014	41.2
<i>unrefined</i>	1'078	73.5	1'222	1'055	594	551	44.7	379	26.4	673	729	559	469	34.6
<i>refined</i>	5'271	52.6	7'035	8'236	6'947	6'763	64.0	3'831	36.7	5'442	5'592	4'666	4'419	42.5
<i>master alloys</i>	6	8.2	4	5	5	8	12.5	7	11.2	11	11	7	8	13.4
<i>other alloys</i>	49	13.7	103	123	109	87	20.4	87	23.7	123	121	114	118	31.8
1/2 manufact.	2'388	18.0	3'181	3'519	3'321	3'600	24.5	4'928	36.8	6'550	6'900	6'031	6'205	40.8
Nickel	303	8.5	199	262	244	312	6.1	664	17.6	1'000	1'098	900	1'203	22.2
unwrought	189	7.7	164	218	206	265	7.3	440	16.3	726	788	605	883	22.5
1/2 manufact.	114	10.4	35	45	38	47	3.3	224	20.8	274	309	295	320	21.4
Aluminium	6'068	18.5	6'965	7'943	7'083	7'160	17.0	8'122	23.2	10'945	11'900	10'467	11'010	25.2
unwrought	4'177	26.3	4'674	5'321	4'524	4'491	22.9	3'859	20.6	5'302	5'619	4'408	4'903	22.9
<i>not alloyed</i>	3'399	34.3	3'742	4'029	3'258	3'089	27.0	2'493	20.2	3669	3861	3016	3302	27.3
<i>alloyed</i>	778	13.0	933	1'292	1'266	1'402	17.2	1'367	21.3	1633	1758	1392	1601	17.2
1/2 manufact.	1'891	11.2	2'291	2'622	2'558	2'669	11.9	4'263	26.3	5'644	6'281	6'059	6'106	27.3
Lead	371	31.2	577	476	458	521	34.9	450	36.6	768	696	530	638	38.9
unwrought	339	32.5	551	455	435	497	37.2	374	35.2	698	640	478	584	39.7
1/2 manufact.	32	22.1	26	21	23	24	15.5	76	46.0	70	56	52	55	32.1
Zinc	1'022	27.2	1'096	1'938	1'609	1'667	33.5	1'270	33.1	1'543	2'074	1'759	1'870	35.1
unwrought	915	27.8	948	1'748	1'454	1'513	34.2	1'133	34.1	1'371	1'882	1'573	1'692	36.8
1/2 manufact.	107	22.9	148	190	155	154	28.0	137	26.7	172	192	186	178	24.6
Tin	983	82.5	1'245	1'310	1'217	1'217	81.3	390	30.7	480	447	460	583	39.0
unwrought	941	89.1	1'187	1'232	1'129	1'123	88.4	298	26.5	361	312	332	445	34.5
<i>not alloyed</i>	892	91.3	1'129	1'160	1'067	1'058	91.4	261	26.1	298	261	261	291	27.1
<i>alloyed</i>	49	61.9	58	72	62	65	58.2	37	29.9	63	51	71	154	71.7
1/2 manufact.	42	31.1	57	78	88	94	41.4	93	62.5	120	134	128	138	66.7
Misc. non-ferrous metals	663	28.9	760	805	814	884	28.9	510	18.9	621	632	512	581	17.1
Cobalt	341	32.9	337	317	332	321	26.6	171	15.3	211	193	158	197	16.8
Molybdenum	4	6.7	5	5	6	8	17.3	6	11.3	11	10	11	9	13.0
Tungsten	12	17.2	20	18	20	20	21.5	8	9.7	11	24	27	21	15.9
Tantalum	16	11.1	34	39	39	73	18.4	4	3.5	5	9	12	30	7.9
Magnesium	26	6.1	120	164	199	214	32.8	46	10.1	67	79	74	83	11.1
Magnesium scrap	2	14.3	2	1	1	3	4.2	0	0.5	1	1	1	1	0.6
Manganese	60	37.3	70	81	82	79	47.5	18	9.8	21	22	22	28	13.2
Antimony	126	87.5	93	75	37	56	85.9	96	35.8	102	71	41	39	39.0
Chromium	21	19.8	19	24	23	25	13.4	9	7.1	16	19	16	23	13.5
Zirconium	1	4.9	1	1	1	1	8.1	2	10.1	2.2	1.6	1.6	1.6	10.7
other	55	40.9	60	80	75	85	51.5	150	71.0	175	205	150	150	48.4
n.e.s.	0		0	0	0	0		0		356	400	454		

1/ SITC 27 + 28 + 522.66 + 68

2/ SITC 27

3/ SITC 28

4/ Niobium, tantalum or vanadium ores and concentrates

5/ SITC 522.66

6/ SITC 68

Commodities not included in the minerals and metals group

Total listed	20'440	23.4	30'830	31'214	32'896	29'498	29.6	28'740	32.4	40'000	46'070	38'860	39'086	36.2
Gold	4'842	18.2	10'649	11'246	13'512	8'412	32.5	10'352	43.8	15'310	21'852	16'686	15'581	56.0
<i>unwrought or 1/2-manufactured</i>	4'812	18.7	10'558	11'092	13'351	8'173	32.4	10'294	45.1	15'225	21'739	16'488	15'351	56.8
<i>waste and scrap</i>	30	3.5	91	153	161	239	36.9	58	7.2	86	113	198	230	30.3
Gemstones	9'947	28.1	12'153	12'707	12'643	14'372	31.8	6'857	18.3	8'435	8'407	7'590	9'268	19.0
Diamonds	8'475	25.8	11'090	11'737	11'818	13'486	31.1	6'249	17.9	7'852	7'886	7'193	8'814	18.8
<i>unsorted¹</i>	40	3.1	44	42	21	14	1.7	272	14.4	352	316	198	282	38.4
<i>sorted, cleaved</i>	3'480	22.4	5'709	6'159	6'234	7'346	33.3	2'251	14.2	3'344	3'758	4'171	4'759	20.4
<i>worked</i>	4'956	31.0	5'337	5'537	5'563	6'125	29.9	3'726	21.8	4'156	3'812	2'824	3'773	16.5
Precious or semi-precious stones	1'472	58.5	1'064	970	825	887	50.7	609	23.4	583	521	397	455	22.7
<i>shaped</i>	243	69.8	149	152	126	152	68.0	228	61.1	216	189	141	174	61.9
<i>worked</i>	1'229	56.6	915	818	699	734	48.1	381	17.1	367	331	256	280	16.3
1/2 processed or processed minerals	3'699	23.2	5'145	4'481	4'315	4'293	24.1	8'532	48.1	12'295	11'918	10'954	10'456	52.3
Asbestos	218	17.5	254	262	260	261	20.0	320	30.1	364	395	363	360	30.3
<i>asbestos-cement</i>	79	24.7	90	94	89	81	21.6	65	24.0	88	105	103	95	28.6
<i>manufactures</i>	139	15.0	164	169	171	180	19.3	256	32.1	275	289	260	265	30.9
Fertilizers	3'462	24.1	4'852	4'181	4'016	3'985	24.6	8'121	49.5	11'804	11'364	10'440	9'993	53.9
<i>phosphoric acid</i>	772	59.4	929	765	1'000	1'049	59.0	768	54.0	903	1'151	1'313	1'344	66.0
<i>phosphatic fertilizers</i>	447	57.5	602	431	465	446	57.6	334	46.4	438	459	371	341	48.3
<i>potassic fertilizers</i>	183	7.4	282	263	281	324	10.2	1'641	45.2	1'805	2'218	2'332	2'295	52.5
<i>nitrogenous fertilizers</i>	1'409	29.5	2'064	1'769	1'314	1'296	30.5	2'780	49.8	4'746	3'572	2'293	2'152	43.5
<i>fertilizers n.e.s</i>	652	12.9	975	954	956	870	13.9	2'599	51.7	3'912	3'964	4'131	3'861	59.7
Sulfuric acid	19	6.3	39	38	40	47	15.9	91	32.9	128	159	151	103	37.2
1/2 processed or processed metals	1'952	21.0	2'883	2'780	2'426	2'421	22.5	3'000	29.9	3'960	3'893	3'630	3'781	33.2
Chemicals	424	12.4	592	427	477	456	10.0	1'179	33.9	1'418	1'397	1'451	1'633	35.0
<i>Cobalt oxides</i>	17	12.0	8	9	14	13	4.0	40	19.9	61	51	41	46	16.5
<i>Titanium oxides</i>	95	16.3	117	100	95	83	13.5	278	42.9	370	330	374	343	49.2
<i>Titanium dioxide pigments</i>	312	11.6	468	318	368	360	10.0	860	32.8	987	1'016	1'036	1'244	33.7
Ferro-alloys	1'082	39.6	1'714	1'709	1'296	1'303	42.9	471	13.9	878	962	761	827	24.2
<i>Ferrochromium</i>	350	28.3	513	558	437	456	29.0	181	12.3	325	372	353	359	20.0
<i>Ferro-manganese</i>	327	36.8	374	347	339	305	41.9	156	18.9	218	207	151	173	21.9
<i>Ferro-nickel</i>	406	67.2	827	803	520	542	73.6	135	12.3	336	383	258	296	35.3
Tin plated/coated steel	446	14.1	577	645	653	663	21.0	1'350	42.5	1'665	1'534	1'418	1'321	39.8

¹ The major part of exports is included within the "sorted,cleaved" item

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