

Table 1. 2. : World exports and imports of minerals and metals by SITC headings

	Exports (fob)						Imports (cif)					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
	(million US\$)											
<b>Minerals and metals <sup>1</sup></b>	<b>157,125</b>	<b>166,178</b>	<b>156,701</b>	<b>151,353</b>	<b>176,441</b>	<b>166,631</b>	<b>172,849</b>	<b>185,321</b>	<b>172,624</b>	<b>170,310</b>	<b>204,035</b>	<b>191,032</b>
<b>Minerals <sup>2</sup></b>	<b>13,610</b>	<b>13,020</b>	<b>12,742</b>	<b>12,000</b>	<b>11,462</b>	<b>11,235</b>	<b>16,749</b>	<b>17,560</b>	<b>15,775</b>	<b>16,352</b>	<b>15,740</b>	<b>14,625</b>
<b>Fertilizers crude</b>	<b>1,406</b>	<b>1,480</b>	<b>1,568</b>	<b>1,481</b>	<b>1,178</b>	<b>1,227</b>	<b>1,859</b>	<b>2,005</b>	<b>2,048</b>	<b>1,884</b>	<b>1,703</b>	<b>1,588</b>
Animal/veget. fertilizers	110	103	130	122	117	120	130	155	175	140	132	140
Sodium nitrate	76	76	70	78	56	52	82	80	73	73	69	65
Phosphate rock	1196	1285	1347	1259	985	1036	1,607	1,739	1776	1645	1476	1362
Potassium salts, natural	24	17	21	21	20	19	41	31	25	26	26	21
<b>Stone and gravel</b>	<b>3,762</b>	<b>3,777</b>	<b>3,578</b>	<b>3,610</b>	<b>3,656</b>	<b>3,644</b>	<b>4,822</b>	<b>5,006</b>	<b>4,678</b>	<b>4,770</b>	<b>5,114</b>	<b>4,721</b>
Marble	410	475	469	484	547	578	429	482	422	494	601	630
Granite	925	843	769	845	793	798	1,368	1,526	1,343	1,339	1,367	1,300
Gypsum, plaster...	609	746	590	602	597	575	906	962	869	874	788	767
Gravel, crushed stone....	1,118	998	1,046	987	974	969	1,251	1,155	1,205	1,188	1,215	1,061
Sands, natural	645	660	631	640	680	655	814	810	748	797	1,048	868
other	55	55	73	53	65	70	53	70	90	80	95	95
<b>Sulphur</b>	<b>778</b>	<b>762</b>	<b>620</b>	<b>632</b>	<b>732</b>	<b>532</b>	<b>973</b>	<b>942</b>	<b>852</b>	<b>935</b>	<b>1,046</b>	<b>811</b>
Sulphur	756	742	596	607	706	512	943	914	827	913	1,021	789
Pyrites unroasted	22	20	24	25	26	20	30	28	25	22	25	22
<b>Natural abrasives</b>	<b>904</b>	<b>904</b>	<b>963</b>	<b>985</b>	<b>1,092</b>	<b>966</b>	<b>1,093</b>	<b>1,181</b>	<b>1,191</b>	<b>1,154</b>	<b>1,171</b>	<b>1,034</b>
Industrial diamonds	365	419	484	549	618	550	279	319	395	375	340	295
Abrasives n.e.s, natural	539	486	479	436	474	416	814	862	796	779	831	739
<b>Other crude minerals</b>	<b>6,760</b>	<b>6,097</b>	<b>6,014</b>	<b>5,292</b>	<b>4,804</b>	<b>4,866</b>	<b>8,001</b>	<b>8,427</b>	<b>7,007</b>	<b>7,609</b>	<b>6,706</b>	<b>6,471</b>
Graphite	129	129	140	137	151	137	178	182	175	166	179	157
Dolomite	154	162	165	164	176	174	202	220	211	200	196	204
Magnesite/Magnesia	823	881	866	708	739	829	1,098	1,092	1,003	906	987	946
Kaolinic clays	1,332	1,356	1,387	1,350	1,411	1,347	1,564	1,641	1,606	1,553	1,635	1,560
Common salt	1,101	995	904	928	843	915	1,312	1,254	1,213	1,220	1,103	1,250
Asbestos	463	365	303	287	303	263	564	548	376	344	325	312
Mica	72	70	55	59	60	60	76	76	75	71	71	72
Fluorspar	233	259	248	227	240	247	292	352	306	283	294	348
Baryte	176	206	178	138	180	200	235	285	267	183	234	254
Borates/boric acid, natural	177	174	186	195	201	192	181	177	175	185	182	169
other	2100	1500	1581	1100	500	500	2,300	2,600	1600	2500	1500	1200
<b>Ores and scrap materials <sup>3</sup></b>	<b>45,364</b>	<b>48,650</b>	<b>44,542</b>	<b>40,353</b>	<b>48,793</b>	<b>46,973</b>	<b>55,084</b>	<b>58,524</b>	<b>53,256</b>	<b>49,848</b>	<b>61,027</b>	<b>58,825</b>
<b>Iron ore and conc.</b>	<b>9,097</b>	<b>9,932</b>	<b>9,913</b>	<b>8,376</b>	<b>9,374</b>	<b>9,195</b>	<b>12,458</b>	<b>13,688</b>	<b>13,252</b>	<b>11,545</b>	<b>13,590</b>	<b>13,349</b>
Roasted iron pyrites	95	94	100	90	80	60	170	175	180	185	165	128
Iron ore not agglom.	6,046	6,540	6,406	5,541	6,118	6,341	8,934	9,636	9,381	8,058	9,344	9,770
Iron ore agglom.	2,956	3,299	3,407	2,744	3,176	2,794	3,354	3,877	3,691	3,302	4,081	3,452
<b>Waste &amp; scrap of iron/steel</b>	<b>6,699</b>	<b>7,648</b>	<b>6,628</b>	<b>5,940</b>	<b>7,456</b>	<b>7,360</b>	<b>8,273</b>	<b>8,772</b>	<b>7,507</b>	<b>6,845</b>	<b>9,005</b>	<b>8,388</b>

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	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
	(million US\$)											
<b>Copper ores ...</b>	<b>6,205</b>	<b>5,942</b>	<b>4,975</b>	<b>5,147</b>	<b>6,508</b>	<b>6,266</b>	<b>5,910</b>	<b>5,806</b>	<b>4,988</b>	<b>5,433</b>	<b>6,474</b>	<b>6,410</b>
Copper ores	6,066	5,786	4,864	5,046	6,409	6,161	5,796	5,675	4,910	5,336	6,378	6,330
Copper matte	129	150	103	88	90	94	107	122	59	77	79	71
Copper cement	10	7	8	13	9	11	7	10	18	20	16	8
<b>Nickel ores..</b>	<b>2,248</b>	<b>1,977</b>	<b>1,591</b>	<b>1,655</b>	<b>2,544</b>	<b>2,138</b>	<b>2,437</b>	<b>2,130</b>	<b>1,638</b>	<b>1,666</b>	<b>2,687</b>	<b>2,129</b>
Nickel ores	381	389	248	240	476	411	471	461	330	337	564	417
Nickel int. prod.	1,867	1,589	1,342	1,415	2,067	1,727	1,966	1,669	1,309	1,329	2,124	1,711
<b>Aluminium ores..</b>	<b>5,673</b>	<b>5,886</b>	<b>5,558</b>	<b>5,291</b>	<b>6,478</b>	<b>6,234</b>	<b>7,141</b>	<b>6,910</b>	<b>6,716</b>	<b>6,276</b>	<b>7,770</b>	<b>7,340</b>
Bauxite..	816	770	738	722	717	733	1,326	1,201	1,219	1,118	1,196	1,284
Alumina	4,857	5,117	4,820	4,568	5,761	5,501	5,815	5,709	5,497	5,158	6,574	6,056
<b>Ores of uranium/thorium</b>	<b>450</b>	<b>460</b>	<b>430</b>	<b>420</b>	<b>320</b>	<b>350</b>	<b>480</b>	<b>520</b>	<b>510</b>	<b>510</b>	<b>460</b>	<b>670</b>
<b>Ores of base metals ...</b>	<b>5,822</b>	<b>6,632</b>	<b>5,606</b>	<b>5,258</b>	<b>5,524</b>	<b>5,167</b>	<b>6,607</b>	<b>7,206</b>	<b>6,283</b>	<b>5,917</b>	<b>6,450</b>	<b>6,448</b>
Lead ores	549	498	550	515	522	548	639	488	559	584	621	623
Zinc ores	2,176	3,006	2,136	2,320	2,428	2,054	2,040	2,830	2,056	2,139	2,265	1,929
Tin ores	211	173	140	134	140	140	294	241	182	166	166	206
Manganese ores	616	594	562	507	585	525	773	726	663	617	655	708
Molybdenum... ores	1,716	1,878	1,679	1,424	1,453	1,559	2,126	2,221	2,154	1,819	2,086	2,407
Molybdenum ores	664	844	704	507	524	619	720	883	791	509	544	548
Titanium ores	603	651	621	569	498	414	824	831	814	794	845	814
Zirconium ores	411	322	287	255	287	324	479	412	392	327	386	424
Niobium... ores <sup>4</sup>	38	61	68	93	144	202	103	96	157	188	311	622
other non-ferrous ores	554	482	539	358	396	342	735	700	669	593	658	575
Chromium ores	382	304	294	236	264	221	522	485	407	360	413	358
Tungsten ores	33	41	24	16	20	26	41	51	37	23	20	29
Cobalt ores	45	48	75	24	37	21	31	29	35	40	45	53
other	94	90	146	82	75	73	140	135	190	170	180	135
<b>Non-ferrous base metals waste &amp; scrap</b>	<b>7,800</b>	<b>8,794</b>	<b>8,283</b>	<b>6,662</b>	<b>8,083</b>	<b>7,528</b>	<b>9,484</b>	<b>10,883</b>	<b>9,438</b>	<b>8,950</b>	<b>10,682</b>	<b>9,859</b>
Ashes & residues	1400	1050	1600	1000	1000	1000	1,700	1,700	1645	1600	1700	1650
Waste & scrap	6,400	7,744	6,683	5,662	7,083	6,528	7,784	9,183	7,793	7,350	8,982	8,209
Copper	3,591	4,051	3,123	2,206	3,123	2,802	4,379	4,729	3,713	3,277	4,126	3,848
Nickel	193	253	175	163	280	221	321	370	233	224	421	319
Aluminium	2,305	3,085	3,082	2,966	3,355	3,199	2,807	3,757	3,554	3,551	4,122	3,777
Lead	99	79	72	74	61	75	104	92	79	80	69	79
Zinc	184	247	195	216	242	208	154	211	182	192	215	164
Tin	29	30	37	37	21	23	20	25	33	27	29	22
<b>Ores, scrap, sweepings of precious metals</b>	<b>1,370</b>	<b>1,377</b>	<b>1,558</b>	<b>1,604</b>	<b>2,508</b>	<b>2,735</b>	<b>2,294</b>	<b>2,608</b>	<b>2,925</b>	<b>2,706</b>	<b>3,909</b>	<b>4,233</b>
ores and concentrates	555	548	515	617	723	662	712	708	729	716	871	1073
waste and scrap (excl. gold)	815	829	1,043	987	1,785	2,073	1,582	1,900	2,196	1,990	3,038	3,160
<b>Aluminium hydroxide<sup>5</sup></b>	<b>472</b>	<b>448</b>	<b>436</b>	<b>448</b>	<b>510</b>	<b>513</b>	<b>488</b>	<b>501</b>	<b>492</b>	<b>516</b>	<b>570</b>	<b>596</b>
<b>Non-ferrous metals<sup>6</sup></b>	<b>97,679</b>	<b>104,061</b>	<b>98,981</b>	<b>98,553</b>	<b>115,676</b>	<b>107,910</b>	<b>99,758</b>	<b>108,122</b>	<b>103,101</b>	<b>102,330</b>	<b>125,029</b>	<b>115,137</b>
<b>Precious metals</b>	<b>9,012</b>	<b>9,902</b>	<b>11,802</b>	<b>12,227</b>	<b>17,339</b>	<b>16,585</b>	<b>9,365</b>	<b>11,026</b>	<b>13,294</b>	<b>14,108</b>	<b>21,545</b>	<b>20,191</b>
Silver	3,589	3,404	3,904	3,360	3,714	3,252	3,894	3,773	4,869	3,888	4,304	3,866
Platinum	5,423	6,497	7,898	8,867	13,625	13,333	5,471	7,253	8,425	10,220	17,240	16,325

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	(million US\$)											
<b>Copper</b>	<b>30,946</b>	<b>32,370</b>	<b>27,916</b>	<b>27,180</b>	<b>31,527</b>	<b>28,816</b>	<b>31,474</b>	<b>32,631</b>	<b>28,617</b>	<b>27,364</b>	<b>33,130</b>	<b>29,578</b>
unwrought	14,965	15,745	12,879	12,429	14,138	13,807	15,068	15,565	12,883	11,949	14,877	13,351
unrefined	1,781	1,906	1,296	1,250	1,379	1,459	1,618	1,648	1,341	1,356	1,617	1,491
refined	12,635	13,266	11,059	10,677	12,197	11,825	12,922	13,396	11,066	10,163	12,731	11,392
master alloys	71	70	65	63	77	79	76	79	61	60	72	76
other alloys	479	503	460	439	485	444	451	442	415	370	457	391
1/2 manufact.	15,981	16,625	15,037	14,751	17,389	15,009	16,406	17,066	15,734	15,415	18,253	16,227
<b>Nickel</b>	<b>5,320</b>	<b>5,581</b>	<b>4,752</b>	<b>5,112</b>	<b>7,045</b>	<b>5,927</b>	<b>5,389</b>	<b>5,803</b>	<b>5,036</b>	<b>5,449</b>	<b>8,198</b>	<b>6,163</b>
unwrought	3,910	4,123	3,303	3,666	5,305	4,099	3,867	4,120	3,385	3,936	6,313	4,315
1/2 manufact.	1,410	1,458	1,450	1,446	1,740	1,829	1,522	1,683	1,651	1,513	1,886	1,848
<b>Aluminium</b>	<b>41,796</b>	<b>44,364</b>	<b>43,688</b>	<b>43,268</b>	<b>48,268</b>	<b>46,648</b>	<b>42,014</b>	<b>45,544</b>	<b>44,342</b>	<b>43,760</b>	<b>49,497</b>	<b>48,041</b>
unwrought	20,672	21,845	20,469	20,246	23,130	22,149	21,445	23,698	21,686	21,433	25,162	24,094
not alloyed	13,613	13,717	12,607	11,751	13,086	12,697	13,688	14,663	12,648	12,076	13,295	13,215
alloyed	7,059	8,128	7,862	8,495	10,044	9,452	7,757	9,036	9,039	9,356	11,867	10,879
1/2 manufact.	21,124	22,519	23,219	23,022	25,138	24,498	20,569	21,846	22,655	22,327	24,335	23,947
<b>Lead</b>	<b>1,837</b>	<b>1,646</b>	<b>1,457</b>	<b>1,502</b>	<b>1,445</b>	<b>1,395</b>	<b>1,960</b>	<b>1,860</b>	<b>1,500</b>	<b>1,531</b>	<b>1,549</b>	<b>1,482</b>
unwrought	1,662	1,475	1,288	1,342	1,277	1,236	1,770	1,683	1,331	1,358	1,366	1,320
1/2 manufact.	176	171	169	160	168	159	190	177	169	172	183	162
<b>Zinc</b>	<b>4,272</b>	<b>5,365</b>	<b>4,626</b>	<b>4,767</b>	<b>5,266</b>	<b>4,250</b>	<b>4,578</b>	<b>6,091</b>	<b>5,341</b>	<b>5,363</b>	<b>6,019</b>	<b>5,087</b>
unwrought	3,685	4,768	4,088	4,215	4,679	3,732	3,922	5,331	4,613	4,628	5,250	4,402
1/2 manufact.	588	597	539	552	587	518	656	760	728	735	770	685
<b>Tin</b>	<b>1,555</b>	<b>1,590</b>	<b>1,512</b>	<b>1,511</b>	<b>1,662</b>	<b>1,257</b>	<b>1,487</b>	<b>1,439</b>	<b>1,419</b>	<b>1,392</b>	<b>1,535</b>	<b>1,278</b>
unwrought	1,380	1,395	1,311	1,281	1,401	1,065	1,301	1,234	1,215	1,180	1,273	1,049
not alloyed	1,283	1,289	1,211	1,169	1,270	967	1,116	1,120	1,089	1,044	1,102	913
alloyed	97	106	99	112	131	98	185	115	126	136	171	135
1/2 manufact.	176	195	201	230	261	192	186	204	204	212	263	229
<b>Misc. non-ferrous metals</b>	<b>2,940</b>	<b>3,245</b>	<b>3,228</b>	<b>2,987</b>	<b>3,125</b>	<b>3,033</b>	<b>3,492</b>	<b>3,727</b>	<b>3,552</b>	<b>3,364</b>	<b>3,556</b>	<b>3,318</b>
Cobalt	1,335	1,370	1,365	1,107	1,079	977	1,429	1,493	1,287	1,040	1,105	861
Molybdenum	72	64	57	47	51	50	85	85	78	149	62	63
Tungsten	85	103	126	93	107	147	114	129	149	129	145	194
Tantalum	230	283	259	399	604	651	224	301	282	386	642	707
Magnesium	567	662	690	662	617	545	677	724	769	747	688	536
Magnesium scrap	51	51	60	78	56	64	54	56	71	99	81	92
Manganese	194	207	190	183	196	234	221	222	239	216	226	271
Antimony	105	86	47	65	67	48	233	176	117	102	118	106
Chromium	134	187	179	175	183	172	156	190	191	170	184	184
Zirconium	14	12	16	14	17	15	15	23	25	15	26	20
other	155	220	240	165	150	130	283	330	345	310	280	285
<b>n.e.s</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>770</b>	<b>614</b>	<b>0</b>	<b>1264</b>	<b>1669</b>	<b>1849</b>

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

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<i>Commodities not included in the minerals and metals group</i>												
<b>Total listed</b>	<b>107,413</b>	<b>104,243</b>	<b>102,176</b>	<b>102,921</b>	<b>111,574</b>	<b>109,684</b>	<b>110,203</b>	<b>114,973</b>	<b>107,595</b>	<b>110,296</b>	<b>115,772</b>	<b>107,151</b>
<b>Gold</b>	<b>33,488</b>	<b>31,668</b>	<b>33,835</b>	<b>26,595</b>	<b>25,783</b>	<b>25,782</b>	<b>29,191</b>	<b>35,649</b>	<b>32,192</b>	<b>27,481</b>	<b>25,162</b>	<b>24,156</b>
<i>unwrought or 1/2-</i>												
<i>manufactured</i>	32,382	30,825	33,168	25,927	24,821	24,792	28,440	34,859	31,364	26,726	24,388	23,320
<i>waste and scrap</i>	1,106	843	667	668	963	990	751	790	829	755	774	836
<b>Gemstones</b>	<b>40,765</b>	<b>41,230</b>	<b>37,934</b>	<b>47,069</b>	<b>54,722</b>	<b>54,533</b>	<b>44,069</b>	<b>44,466</b>	<b>41,372</b>	<b>50,430</b>	<b>57,564</b>	<b>51,207</b>
Diamonds	38,856	39,417	36,303	45,310	53,023	52,910	41,703	42,142	39,426	48,392	55,436	49,382
<i>unsorted</i>	1,579	1,330	1,051	832	1,834	1,412	1,840	1,764	1,019	738	941	561
<i>sorted, cleaved</i>	19,144	19,442	16,762	22,726	26,047	23,292	19,930	20,191	18,442	24,588	26,550	23,259
<i>worked</i>	18,134	18,645	18,491	21,752	25,142	28,207	19,933	20,187	19,965	23,067	27,945	25,562
Precious or semi-precious stones	1,909	1,813	1,631	1,759	1,699	1,623	2,366	2,324	1,946	2,038	2,128	1,825
<i>shaped</i>	237	231	167	226	225	198	317	315	242	314	316	230
<i>worked</i>	1,672	1,582	1,464	1,533	1,474	1,425	2,050	2,009	1,703	1,724	1,812	1,595
<b>1/2 processed or processed minerals</b>	<b>21,467</b>	<b>19,899</b>	<b>19,188</b>	<b>18,713</b>	<b>19,118</b>	<b>18,762</b>	<b>24,109</b>	<b>22,511</b>	<b>21,796</b>	<b>20,801</b>	<b>20,242</b>	<b>20,246</b>
<b>Asbestos</b>	1,371	1,381	1,342	1,321	1,311	1,267	1,229	1,250	1,255	1,226	1,254	1,286
<i>asbestos-cement</i>	389	400	400	384	413	377	353	368	376	355	369	351
<i>manufactures</i>	982	982	942	937	898	890	876	882	879	871	885	935
<b>Fertilizers</b>	19,795	18,217	17,518	17,092	17,518	17,248	22,519	20,874	20,136	19,278	18,695	18,688
<i>phosphoric acid</i>	1,632	1,494	1,802	1,791	1,593	1,490	1,731	2,024	2,111	2,071	1,677	1,774
<i>phosphatic fertilizers</i>	1,023	829	879	792	783	719	925	871	814	712	672	661
<i>potassic fertilizers</i>	2,983	3,277	3,439	3,617	3,523	3,538	3,903	4,298	4,545	4,492	4,434	4,200
<i>nitrogenous fertilizers</i>	7,747	6,037	4,782	4,437	5,512	5,636	8,705	6,730	5,402	5,004	6,052	6,278
<i>fertilizers n.e.s</i>	6,411	6,580	6,616	6,455	6,107	5,866	7,255	6,950	7,263	6,999	5,860	5,774
<b>Sulfuric acid</b>	301	302	328	299	289	247	361	387	406	297	293	272
<b>1/2 processed or processed metals</b>	<b>11,692</b>	<b>11,446</b>	<b>11,219</b>	<b>10,544</b>	<b>11,950</b>	<b>10,607</b>	<b>12,833</b>	<b>12,348</b>	<b>12,235</b>	<b>11,584</b>	<b>12,805</b>	<b>11,543</b>
<b>Chemicals</b>	3,887	3,781	4,290	4,348	4,894	4,705	4,085	4,196	4,659	4,753	5,128	4,859
<i>Cobalt oxides</i>	177	193	207	193	208	169	291	302	306	279	296	209
<i>Titanium oxides</i>	567	546	608	590	685	689	718	655	726	712	720	666
<i>Titanium dioxide pigments</i>	3,142	3,042	3,475	3,565	4,001	3,847	3,076	3,240	3,627	3,763	4,111	3,983
<b>Ferro-alloys</b>	3,952	3,978	3,391	3,043	3,907	3,034	4,776	4,439	3,927	3,477	4,380	3,584
<i>Ferromanganese</i>	1,923	1,995	1,804	1,560	1,765	1,224	2,307	2,166	2,106	1,807	2,061	1,558
<i>Ferro-manganese</i>	938	909	909	736	913	843	1,083	930	913	804	878	861
<i>Ferro-nickel</i>	1,091	1,074	678	746	1,229	968	1,386	1,344	909	867	1,440	1,166
<b>Tin plated/coated steel</b>	3,854	3,688	3,539	3,153	3,150	2,868	3,973	3,713	3,649	3,354	3,298	3,100