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UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

REVIEW OF CURRENT MARKET DEVELOPMENTS ON MANGANESE - 1994

Report by the UNCTAD secretariat

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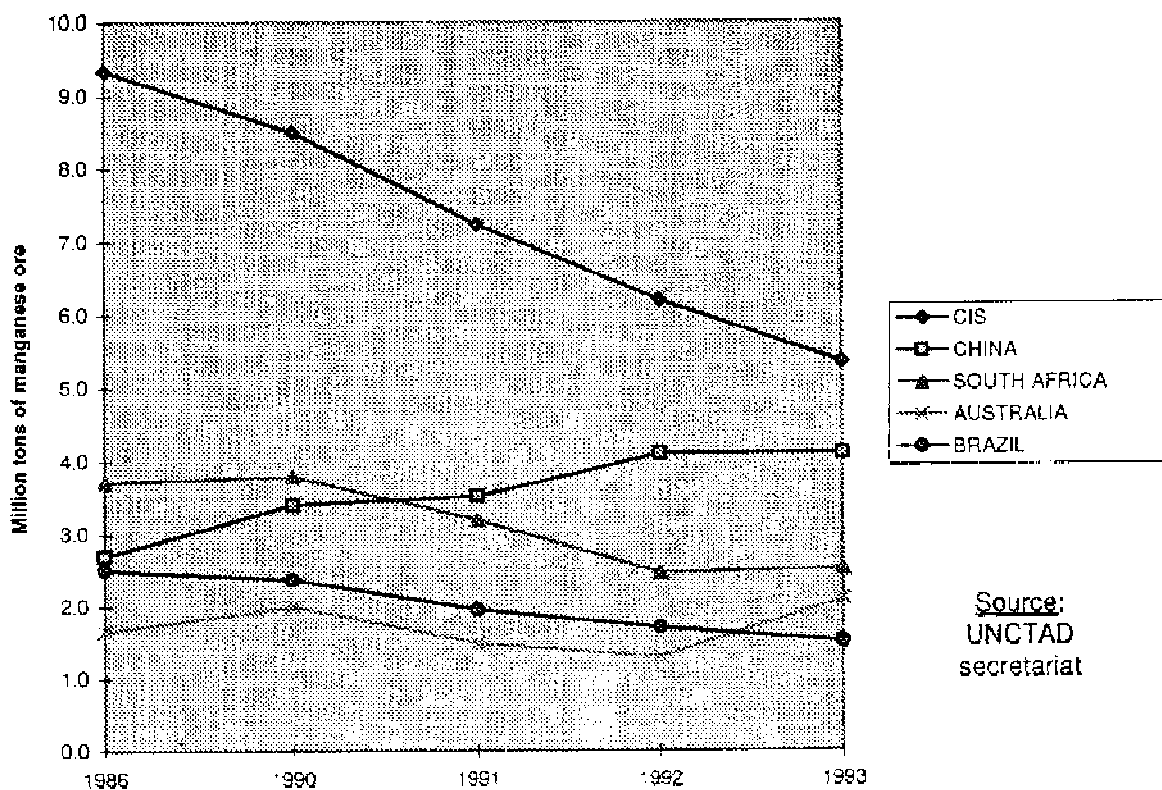
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1. The world market for manganese ores remained sluggish in 1993. Supply exceeded demand, since the slight increase in consumption in market economy countries was insufficient to offset the impact of much lower manganese use in the CIS and Eastern Europe. As a result, the declining trend in the volume of world transactions of manganese ore continued, and exports were 1.5 per cent lower than in 1992. They amounted to less than 6 million tons in 1993, compared to nearly 9 million tons in 1986. Prices of manganese ores also dropped in 1993, and declined further in 1994.

I. World supply

2. World production of manganese ore totalled 18.7 million tons in 1993, nearly 5 per cent lower than in 1992. This was the lowest level since 1986, 27 per cent below the peak of 1989 when world manganese output exceeded 25.5 million tons. About 48 per cent of global production originates from market economy countries where major producing countries are: South Africa, Australia, Brazil, India and Gabon. The share of the CIS in total manganese output declined from 38 to 29 per cent during the 1986-1993 period. By contrast, China has become a major manganese-producing country, and its share in world output is increasing fast. In 1993, it accounted for 22 per cent of world total output.

Chart 1
Top five manganese producing countries



3. The manganese industry has been more and more involved in integrated ore-alloys production. The five major ore suppliers known as the manganese mining oligopoly, are now associated with ferro-manganese smelters. Following the example of South Africa, which already in the 1970s became a large alloy producer, Gabon in the 1980s and, more recently in the 1990s, Australia and Brazil have also established joint-ventures with European ferro-alloy producers. Apparently, nowadays it is only in Asia (Japan, the Republic of Korea, and China) that alloy producers have remained independent.

4. The CIS remains the world's largest manganese producer, but its output is mainly for domestic consumption. CIS output has declined sharply by nearly 35 per cent over the past ten years. This was due not only to the sharp drop in local steel production, but also to the fact that the main high-grade reserves are depleting. Ukraine accounts for nearly 75 per cent of CIS manganese production, mostly for its own consumption, but in 1992 and 1993 its output dropped sharply. Georgia has the best quality reserves, but production stopped in 1993 and has not resumed. Kazakhstan has low-grade ores and produces nearly 5 per cent of CIS manganese total output. It managed to maintain its production level unchanged in 1992 and 1993. It seems that the potential to develop new manganese projects in the CIS region exists, but investors remain cautious.

Table 1
Manganese ore production by the ten largest producing countries
(natural weight, thousand metric tons)

	1986	1990	1991	1992	1993	93-92 %	world share % 93
1. CIS	9,336	8,500	7,240	6,204	5,350	-13.8%	29
2. China	2,700	3,404	3,522	4,100	*4,100	+0.0%	22
3. South Africa	3,719	3,792	3,191	2,464	2,507	+1.7%	13
4. Australia	1,649	1,988	1,482	1,300	2,092	+60.9%	11
5. Brazil	2,499	2,361	1,950	1,703	1,507	-11.5%	8
6. India	1,284	1,492	1,550	1,500	*1,300	-13.3%	7
7. Gabon	2,513	2,423	1,620	1,556	*1,091	-29.9%	6
8. Mexico	459	451	275	405	*350	-13.6%	2
9. Ghana	259	380	325	279	309	+10.8%	2
10. Morocco	37	49	59	49	43	-12.2%	...
TOTAL WORLD	24,798	25,181	21,510	19,588	18,674	-4.7%	100

Source: UNCTAD secretariat.

... Negligible (or below 0.5%)

* E : Estimates

5. Africa accounted for 20 per cent of world manganese production in 1993. South Africa and Gabon are two major world suppliers of manganese ore. However, as major ferro-alloys plants were closed down in Europe, both countries

have been obliged to implement production cutbacks in recent years. Small quantities of manganese are also mined in Ghana, Burkina Faso, Morocco and Côte d'Ivoire. Namibia is reactivating an old mine and planned to start shipments in 1994.

6. Australia and Brazil are both major world suppliers of ores and alloys. Australia's main manganese producer is BHP, which already produced 20 per cent more in 1993 and is expanding the capacity of its ferro-manganese plant. In Brazil, production of manganese ore has declined over the past decade because major deposits exploited by ICOMI are depleting. However, as mining by CVRD of the high-grade Azul reserves found in the Carajas area started in 1985, Brazil in 1993 ranked as the second largest supplier among market-economy countries. India is also a major manganese-producing country and is planning to enter the alloys market.

7. In China, new discoveries of manganese deposits have been announced and the fast expansion of domestic steel production offers good prospects for local manganese producers. Chinese manganese production increased fast after 1985. However, as deposits are of low-grade ores, imports have also grown not only to meet the increasing demand from the steelworks but also because China's exports of ferro-alloys are rapidly increasing.

II. World demand

8. About 90 per cent of the world demand for manganese is used to produce manganese ferro-alloys for steelmaking. Consequently, the fortunes of the manganese market are mainly dependent on the steel industry, and in particular on the quality and grade of the steel products made. Technological changes in steelmaking processes and the gradual decline in the intensity of steel use in developed market economy countries led to lower manganese consumption in recent years. Nevertheless, there is no good substitute for manganese in its major applications.

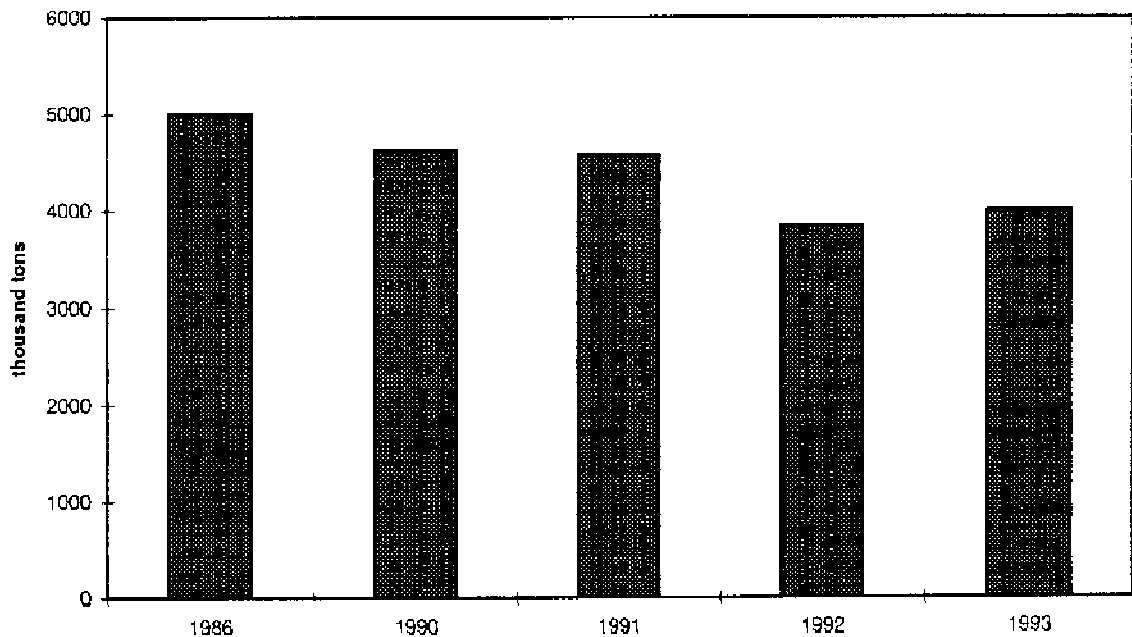
9. On average about 10 kg of manganese is consumed per ton of crude steel. Nowadays, however, some modern steelworks in the OECD region need only 6-9 Kg/ton, while some older plants in Eastern Europe still use up to 12-13kg/ton. With the ongoing modernization of the steel industry, including in the CIS and Eastern Europe, the declining trend in manganese consumption is likely to continue. The use of manganese in other non-metallurgical applications, such as chemicals, ceramics and organic oxidation, is marginal and remains relatively stable.

10. On the other hand, manganese remains the cheapest alloying element and the most widely used. Given its properties to increase the strength, hardness and ductility of steel, today ferro-alloys are used more to produce low carbon steels such as sheets for construction and engineering, as well as to produce non-magnetic special steel products.

11. About 6.5 million tons of manganese alloys were produced worldwide in 1993: nearly 4 million tons of ferro-manganese and 2.5 million tons of silico-

manganese. After three years of declining demand and prices, ferro-alloy markets became more stable in 1993. This reflected the sustained level of crude steel production and the peak in world output of stainless steel, which pushed up demand for ferro-chrome and ferro-nickel in most industrialized countries. Moreover, owing to deficit operations, the shutdown and cutbacks of large ferro-manganese and silico-manganese plants in the European Union region also helped to improve the alloys market balance in 1993.

Chart 2
World production of ferro manganese



Source: UNCTAD secretariat

12. The Russian Federation remains the world's largest manganese alloys producer, even though energy shortages forced its plants to operate at only half capacity in 1993. France and Norway remain major importers of ores and top world suppliers of ferro-alloys to the world market. In Brazil, production of manganese ferro-alloys has increased at an annual rate of over 6 per cent during the past ten years, and the country has become a major world supplier of both ores and processed products. The recent closure of alloy plants by Thyssen in Germany and British Steel in the United Kingdom had a strong impact in the market.

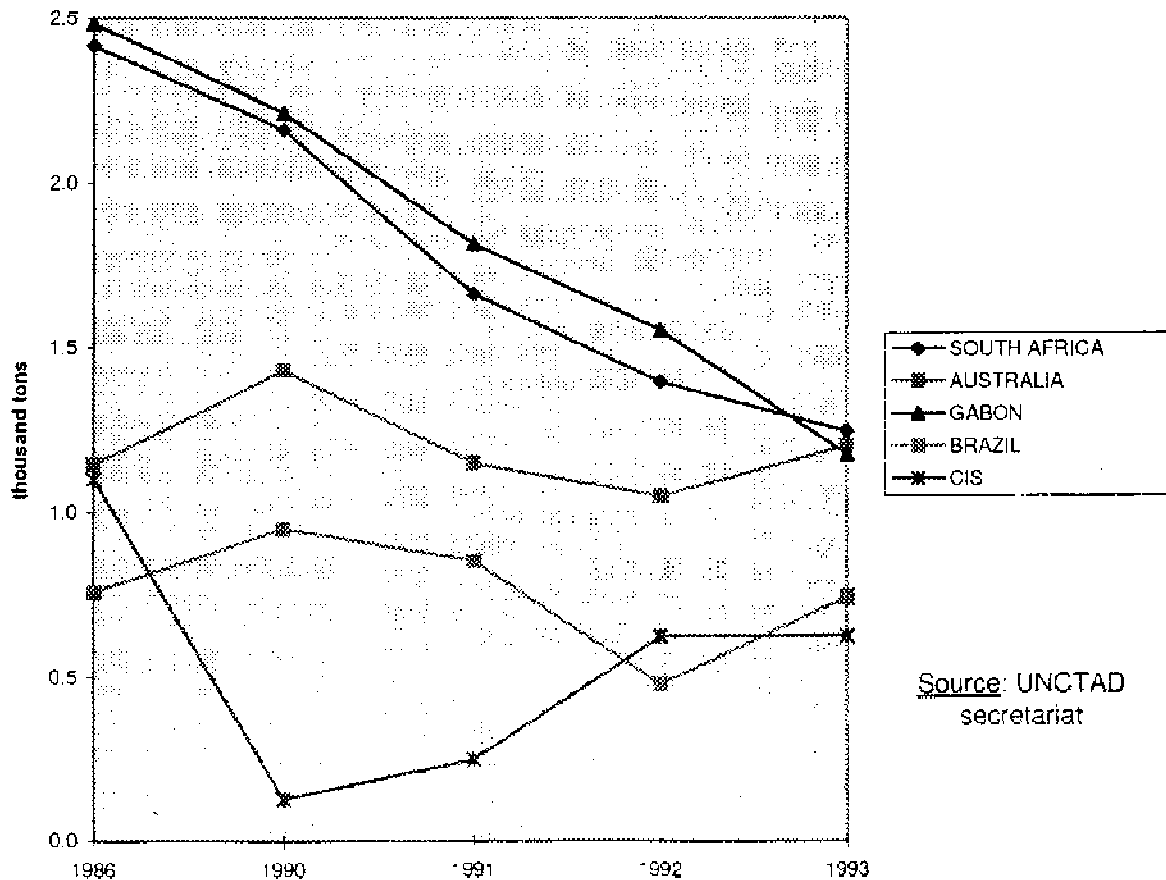
III. International trade

13. Competition is leading to greater vertical integration and stronger commercial links between manganese miners in developing countries and ferro-alloy makers in industrialized regions. As larger volumes of ores are now processed locally, international trade in processed products is expanding faster than trade in manganese ore. Therefore, the share of developing countries in world trade of alloys products is increasing. This shift also reflects the fact that production of ferro-alloys in most industrialized countries became commercially unfeasible because of the sharp increase in production costs.

14. To confirm the above trends, namely that world trade of manganese ore is declining but higher quantities of manganese alloys are going to world markets, figures for 1993 show that while exports of manganese ores decreased by 1.5 per cent, exports of ferro-manganese were 25 per cent higher. This move is taking place despite the fact that international trade in alloys has been hampered by restrictive trade measures, such as the imposition of anti-dumping duties by the United States, Japan and the EU against alloy imports from Brazil, China, South Africa and Ukraine which penalized their exports in 1993.

15. International trade of manganese ore was around 6 million tons in 1993

Chart 3
Major exporters of manganese ores



compared to nearly 10 million tons in 1984. Among the top exporters, the strongest declines took place in Gabon and South Africa, which were the countries most affected by the shrinkage of the European market. Conversely, Brazil and Australia increased their world sales, since their exports are more oriented to the Asian countries.

Table 2
Major manganese trade partners - 1986, 1993

Major exporters	Share (%) of world exports		Major importers	Share (%) of world imports	
	1986	1993		1986	1993
1. South Africa	24.5	21.1	1. Japan	21.3	23.8
2. Australia	13.0	20.4	2. France	9.0	14.4
3. Gabon	28.3	20.0	3. Norway	9.6	11.5
4. Brazil	8.6	12.7	4. China	2.3	10.0
5. CIS	12.5	10.7	5. Republic of Korea	2.6	7.1

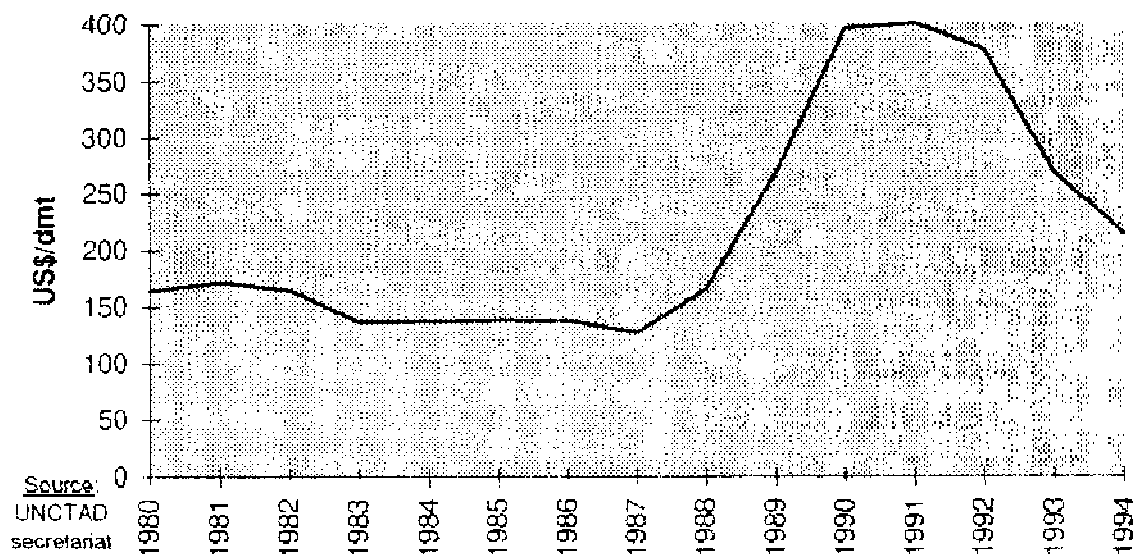
Source: UNCTAD secretariat.

16. All major steel-producing regions outside the CIS - namely the EU, Japan and the United States - rely on manganese imports. Japan remains the most important market for traded manganese ore. In 1993, fuelled by efforts to rebuild stocks, its imports increased by over 25 per cent. France and Norway continue to play an important role as major importers of manganese ore and top alloy suppliers.

IV. World prices

17. Manganese ore is sold on the basis of a dry metric ton (DMT) of contained manganese, of 10kg of Mn content. Since 1990, manganese prices have been declining. In 1994, after three months of negotiations, the benchmark price for annual contracted volumes was settled at US\$ 204/DMT, much lower than in 1993 when on average manganese ores were traded at \$267/DMT, and nearly half of the peak price of US\$ 400/DMT agreed to for 1991.

Chart 4
Evolution of manganese prices



18. Prices for manganese ferro alloys have started to recover. In the case of ferro-manganese and silico-manganese, prices began to move cautiously upward after two years of sharp declines. Average Metal Bulletin quotations for both rose slightly by the end of 1993.

19. High-carbon ferro manganese is usually a cheaper material than manganese metal, and the price of silico-manganese, which is made of low-grade ores, is lower than ferro-manganese. Steelmakers, according to price movements of each material, are able to switch from one product to the other depending on the grade of steel being made and the technological installations of the plants.

20. In 1994, with the recovery of steel demand and higher steel prices, ferro-alloy prices rose mainly during the last quarter of the year, particularly in Europe. Following the general growth in metal prices, an upturn in manganese ore prices is expected for 1995.

STATISTICAL ANNEXES

1. World production of manganese ore, 1981-1992
(thousand metric tons, actual weight)

Region country or area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
WORLD	23502.6	24216.7	22585.8	24855.3	25193.5	24797.5	23533.2	24248.7	25192.9	25178.2	21508.9	20718.2
DEVELOPED MARKET ECONOMY COUNTRIES	8728.6	6450.4	4959.9	4975.3	5638.6	5385.6	4754.2	5449.0	5762.1	5789.1	4693.6	3764.5
AMERICA	138.1	14.8	15.0	-	-	-	-	-	-	-	-	-
United States	138.1	14.8	15.0	-	-	-	-	-	-	-	-	-
EUROPE	14.6	14.3	11.8	14.3	13.8	11.4	3.8	19.7	14.9	9.0	10.6	2.5
EEC	14.6	14.3	11.8	14.3	13.8	11.4	3.8	19.7	14.9	9.0	10.6	2.5
Greece	5.8	5.6	4.6	5.4	5.0	5.0	5.0	10.0	9.0	3.0	2.5	-
Italy	8.8	8.7	7.2	9.5	8.8	6.4	3.8	9.7	5.9	6.0	8.3	-
SOUTH AFRICA	5039.7	5218.3	2886.0	3049.4	3601.0	3719.3	2892.1	3453.0	3623.2	3792.1	3190.8	2462.0
ASIA	67.2	78.0	77.0	62.0	21.0	6.0	-	0.2	-	-	-	-
Japan	67.2	78.0	77.0	62.0	21.0	6.0	-	0.2	-	-	-	-
OCEANIA	1449.0	1127.0	1370.0	1849.0	2003.0	1648.9	1853.3	1878.1	2124.0	1998.0	1482.0	1300.0
Australia	1449.0	1127.0	1370.0	1849.0	2003.0	1648.9	1853.3	1878.1	2124.0	1998.0	1482.0	1300.0
DEVELOPING COUNTRIES AND TERRITORIES	5903.5	6082.4	5748.9	8743.1	6841.1	7208.7	6499.0	6306.8	6824.8	7408.1	5991.3	6353.7
AMERICA	2441.5	2751.3	2285.4	2960.8	2753.7	2991.9	2364.3	2283.2	2398.4	2854.3	2281.9	2902.3
Argentina	3.1	1.3	1.3	1.3	1.7	2.6	2.8	2.5	2.6	2.6	2.6	2.6
Brazil	1835.0	2225.0	1899.0	2457.1	2320.0	2498.7	1944.8	1822.0	1904.0	2361.0	1950.0	2471.7
Chile	25.4	16.1	26.1	26.2	35.8	31.6	31.8	43.7	43.8	29.7	34.3	23.0
Mexico	578.0	508.9	360.0	476.2	396.4	459.0	385.3	395.0	448.0	451.0	276.0	405.0
AFRICA	1855.3	1742.0	2110.9	2558.7	2703.5	2809.4	2699.3	2514.7	2867.0	2046.3	2001.4	1951.4
North Africa	110.0	94.0	73.5	59.1	43.7	36.7	42.5	39.3	32.0	43.8	56.0	33.0
Morocco	110.0	94.0	73.5	59.1	43.7	36.7	42.5	39.3	32.0	43.8	56.0	33.0
Other Africa	1745.3	1648.0	2037.4	2499.6	2659.8	2772.7	2656.8	2484.8	2835.0	2603.0	1945.4	1918.4
Gabon	1491.4	1484.5	1862.3	2212.9	2344.2	2519.4	2403.2	2253.7	2500.8	2423.0	1620.4	1556.4
Ghana	223.1	159.9	173.1	286.7	315.8	258.3	253.6	230.9	334.2	390.0	325.0	382.0
Zaire	30.8	3.6	2.0	-	-	-	-	-	-	-	-	-
ASIA	1575.7	1541.7	1319.0	1204.8	1350.9	1339.4	1325.4	1421.9	1435.4	1587.0	1628.0	1500.0
West Asia	34.9	47.3	43.2	50.5	53.8	42.9	38.9	68.9	76.8	65.0	65.0	-
Iran (Islamic Republic of)	20.0	40.0	40.0	40.0	40.0	34.0	30.0	60.0	60.0	65.0	65.0	-
Turkey	14.9	7.3	3.2	10.5	13.8	8.9	8.9	8.9	8.9	-	-	-
South and South-East Asia	1540.8	1494.4	1275.8	1154.1	1297.1	1296.5	1286.5	1353.0	1358.5	1522.0	1563.0	1500.0
India	1526.0	1468.0	1260.0	1132.4	1258.7	1284.1	1275.1	1332.6	1334.2	1492.0	1580.0	1500.0
Indonesia	2.6	17.9	8.3	12.3	33.5	6.6	1.9	10.3	12.0	14.0	13.0	-
Philippines	1.2	8.7	0.7	0.6	0.4	0.8	0.4	2.2	1.3	-	-	-
Republic of Korea	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-	-	-	-
Thailand	10.9	7.7	6.7	8.7	4.4	4.9	9.1	7.8	11.0	16.0	-	-
EUROPE	31.0	27.4	31.8	19.0	33.0	68.0	110.0	107.0	124.0	120.0	100.0	-
Yugoslavia (former)	31.0	27.4	31.8	19.0	33.0	68.0	110.0	107.0	124.0	120.0	100.0	-
Least developed countries	30.9	3.8	2.0	-	-	-	-	-	-	-	-	-
Mainly commodity exporting countries	248.5	176.0	199.2	312.9	351.2	290.9	285.4	274.6	378.0	419.7	359.3	385.8
COUNTRIES IN EASTERN EUROPE	9340.5	10004.9	10058.3	10267.9	10069.8	9503.2	9500.0	9250.9	9276.0	8575.0	7310.0	6500.0
Bulgaria	50.0	45.0	45.0	45.0	38.0	37.2	38.1	35.4	40.0	35.0	30.0	-
Czechoslovakia (former)	0.9	0.9	0.9	0.9	0.8	-	-	-	-	-	-	-
Hungary	92.8	83.0	59.0	67.0	63.0	63.0	68.9	42.0	45.0	40.0	40.0	-
Romania	57.0	55.0	78.0	66.0	68.0	67.0	65.0	65.0	50.0	-	-	-
USSR (former)	9150.0	9821.0	9876.0	10089.0	9900.0	9336.0	9357.0	9108.5	9141.0	8500.0	7240.0	6500.0
SOCIALIST COUNTRIES OF ASIA	1530.0	1699.0	2420.0	2889.0	2644.0	2700.0	2750.0	3242.0	3930.0	3404.0	3522.0	4100.0
China	1530.0	1699.0	2420.0	2889.0	2644.0	2700.0	2750.0	3242.0	3930.0	3404.0	3522.0	4100.0

Source: UNCTAD secretariat.

2. World exports of manganese ore, 1987-1992

Region country or area	Quantity (actual weight) (1000 MT)						Value (Million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	7588.2	5831.2	9959.8	7882.9	6731.7	5457.2	324.5	494.0	910.0	1115.0	953.5	645.8
DEVELOPED MARKET ECONOMY COUNTRIES	3110.7	4532.3	4791.9	3809.7	3215.9	2685.6	122.3	250.9	369.1	554.8	485.1	338.5
AMERICA	58.7	65.4	50.6	70.8	211.3	17.9	4.3	7.1	4.9	9.0	27.8	2.9
United States	58.7	65.4	50.6	70.8	211.3	17.9	4.3	7.1	4.9	9.0	27.8	2.9
EUROPE	182.2	178.0	175.3	149.6	192.6	223.7	23.2	25.7	33.1	32.5	36.6	34.6
EEC	182.2	168.0	167.3	119.6	164.8	223.7	23.1	25.1	37.0	27.1	31.2	34.6
Belgium-Luxembourg	0.7	1.4	4.3	0.3	12.9	14.2	0.1	0.2	1.8	0.1	2.3	2.6
France	107.1	95.6	95.0	52.9	87.3	143.7	5.1	5.3	8.5	4.7	8.3	11.8
Germany	2.2	2.9	8.0	11.4	6.8	17.6	0.6	1.5	2.1	3.8	2.7	3.5
Italy	0.5	0.7	0.6	0.1	0.1	0.2	-	0.1	0.1	-	-	-
Netherlands	51.9	57.0	56.4	45.4	48.9	47.9	16.4	17.9	18.3	17.1	18.5	16.5
Portugal	19.5	10.0	4.2	8.4	8.9	-	0.7	0.3	0.3	1.3	1.2	-
United Kingdom	0.3	0.4	0.8	0.4	0.5	0.1	0.2	0.3	0.3	0.1	0.2	0.1
EFTA	-	10.0	8.0	37.0	27.8	-	0.1	0.6	7.2	5.4	5.4	-
Norway	-	10.0	8.0	31.0	27.8	-	0.1	0.6	1.2	5.4	5.4	-
SOUTH AFRICA	1562.0	2735.0	2975.0	2168.0	1882.0	1394.0	57.1	127.8	217.1	236.6	215.4	159.1
ASIA	1.8	0.9	-	0.1	-	-	0.7	0.3	-	-	-	-
Japan	1.8	0.9	-	0.1	-	-	0.7	0.3	-	-	-	-
OCEANIA	1308.0	1553.0	1591.0	1430.0	1139.0	1050.0	37.0	90.0	120.0	278.1	205.2	142.9
Australia	1308.0	1553.0	1591.0	1430.0	1139.0	1050.0	37.0	90.0	120.0	278.1	205.2	142.9
DEVELOPING COUNTRIES AND TERRITORIES	3679.2	4258.1	4228.2	3907.2	3322.9	2641.6	170.3	205.8	509.2	542.2	459.8	291.1
AMERICA	874.1	1216.8	1181.9	1015.4	889.3	553.1	37.4	55.3	74.6	91.9	91.0	44.3
Brazil	715.8	1048.5	1034.7	850.1	854.0	479.1	27.6	44.6	63.3	93.0	85.6	38.3
Mexico	158.3	168.3	127.2	85.3	15.3	74.0	9.9	10.7	11.3	8.0	5.4	6.0
AFRICA	2573.2	2725.3	2727.5	2550.7	2179.7	1874.9	126.9	140.1	170.9	424.4	353.3	235.8
North Africa	43.9	47.4	45.9	44.8	44.1	39.8	6.3	8.2	8.8	9.9	9.9	9.4
Morocco	43.9	47.4	45.9	44.8	44.1	39.8	6.3	8.2	8.6	9.9	9.9	9.4
Other Africa	2529.3	2677.9	2681.7	2506.1	2135.6	1835.1	120.1	131.9	161.7	414.5	343.4	226.5
Gabon	2290.3	2381.9	2397.7	2211.1	1815.6	1551.1	112.3	123.2	150.0	386.0	324.0	211.0
Ghana	239.0	296.0	284.0	295.0	320.0	284.0	7.8	8.7	11.7	19.5	19.4	15.5
ASIA	230.8	314.0	337.8	324.3	268.3	205.1	6.0	10.5	13.6	26.0	15.3	10.8
West Asia	-	-	10.3	11.7	-	8.5	-	-	0.7	0.6	-	0.3
Turkey	-	-	10.3	11.7	-	8.5	-	-	0.7	0.6	-	0.3
South and South-East Asia	230.8	314.0	327.5	312.6	268.3	205.1	6.0	10.5	13.6	26.0	15.3	10.8
India	225.8	307.7	310.0	317.5	265.3	200.0	5.8	10.2	12.0	24.3	15.2	10.3
Indonesia	5.0	5.7	16.0	6.7	3.0	5.1	0.2	0.2	0.7	1.6	0.1	0.2
Thailand	-	0.6	1.6	0.1	-	-	-	0.1	0.9	0.1	-	-
EUROPE	1.1	-	0.9	5.1	-	-	-	-	250.0	0.2	0.2	-
Yugoslavia (former)	1.1	-	0.9	5.1	-	-	-	-	250.0	0.2	0.2	-
Mainly commodity exporting countries	239.0	296.0	284.0	295.0	320.0	284.0	7.8	8.7	11.7	19.5	19.4	15.5
COUNTRIES IN EASTERN EUROPE	737.1	1002.6	910.9	138.0	174.0	125.0	29.8	35.6	30.1	17.3	17.2	14.5
Bulgaria	11.0	12.2	13.8	8.0	8.9	-	0.4	0.6	0.7	0.6	0.5	-
Hungary	12.0	8.4	2.1	2.9	2.0	-	1.1	1.9	0.2	0.2	0.2	-
USSR (former)	714.0	982.0	895.0	128.0	166.0	125.0	28.3	33.4	29.2	16.5	16.5	14.5
SOCIALIST COUNTRIES OF ASIA	41.2	40.2	28.8	28.0	18.5	5.0	2.1	2.2	1.6	1.8	1.5	0.7
China	41.2	40.2	28.8	28.0	18.5	5.0	2.1	2.2	1.6	1.8	1.5	0.7

Source: UNCTAD secretariat.

3. World imports of manganese ore, 1987-1992

Region country or area	Quantity (actual weight) (1000 MT)						Value (Million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	8021.0	9783.0	9933.9	7901.2	6944.0	5789.3	453.1	655.5	851.7	1002.1	1040.6	771.5
DEVELOPED MARKET ECONOMY COUNTRIES	4883.0	6423.8	6252.9	5193.8	4041.5	3860.8	294.0	459.0	612.1	691.7	670.7	544.9
AMERICA	471.8	653.0	748.8	448.8	236.9	140.3	30.7	50.5	73.8	83.1	43.1	35.5
Canada	173.0	220.0	161.0	140.0	16.0	16.0	11.4	15.4	16.4	15.2	1.7	1.7
United States	298.8	433.0	587.8	308.8	320.9	175.3	19.3	35.1	58.4	47.9	41.4	33.8
EUROPE	2804.0	3835.9	3552.2	3089.0	2433.6	2681.8	175.2	276.7	381.4	421.5	373.8	380.1
EEC	2162.0	2975.4	2796.9	2343.9	1898.3	2004.9	138.6	219.2	291.7	327.5	296.2	274.7
Belgium-Luxembourg	75.5	232.7	308.5	164.3	136.7	148.8	3.0	17.3	25.0	27.3	25.1	23.7
Denmark	0.5	0.4	0.5	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
France	702.6	1485.5	851.4	754.7	720.1	303.7	16.3	108.9	31.9	121.1	124.3	122.6
Germany	378.6	514.4	546.4	368.8	252.5	285.8	22.0	25.9	37.8	51.2	37.5	48.5
Greece	-	0.1	-	32.7	21.5	23.9	-	0.3	0.1	3.1	3.4	3.6
Ireland	26.9	27.5	37.0	22.7	32.5	33.6	1.6	1.3	2.8	1.9	2.5	2.8
Italy	452.7	264.3	390.1	348.5	240.8	85.1	22.2	18.1	19.8	33.8	56.6	12.5
Netherlands	125.0	53.4	58.0	71.2	65.9	50.1	16.4	9.7	19.9	14.1	1.9	18.5
Portugal	78.1	2.0	2.2	10.3	12.0	2.8	1.3	0.2	0.3	1.1	1.5	0.5
Spain	202.3	199.6	320.3	262.4	58.2	74.3	11.2	14.4	33.4	37.9	9.9	9.4
United Kingdom	120.6	195.5	275.5	219.3	355.3	395.6	13.4	15.1	22.5	36.6	56.5	39.5
EFTA	642.0	860.5	755.3	745.1	535.3	657.0	36.6	57.4	64.7	93.9	75.4	95.4
Austria	0.5	0.3	0.5	0.8	0.5	0.1	0.2	0.1	0.2	0.4	0.2	-
Finland	2.2	1.3	16.8	17.8	8.5	28.6	0.5	0.2	1.5	1.9	1.1	2.5
Norway	628.2	947.2	721.8	728.3	498.8	619.4	35.2	56.1	68.6	81.5	71.2	81.8
Sweden	11.1	11.7	13.4	0.2	27.5	8.9	0.7	1.0	1.4	0.1	2.9	1.1
SOUTH AFRICA	3.9	5.4	6.8	8.8	7.0	4.0	1.7	2.0	1.8	1.9	1.6	1.6
ASIA	1580.7	1923.5	1939.0	1648.7	1663.8	1054.4	83.8	127.9	175.6	204.9	252.3	147.7
Israel	-	-	-	-	-	-	-	0.3	0.1	-	-	-
Japan	1580.7	1923.5	1939.0	1648.7	1663.8	1054.4	83.8	127.8	175.5	204.9	252.3	147.7
OCEANIA	2.8	8.0	8.1	0.7	0.4	0.2	2.8	1.9	0.5	0.3	0.1	-
Australia	2.5	5.9	6.0	0.6	0.3	0.1	2.7	1.8	0.5	0.3	0.1	-
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-	-
DEVELOPING COUNTRIES AND TERRITORIES	1041.1	1128.9	1194.1	1028.4	1033.1	680.6	91.5	102.8	123.8	148.4	154.7	104.3
AMERICA	333.3	322.9	335.4	279.8	263.0	208.9	27.8	30.9	32.2	38.4	30.9	29.4
Argentina	60.4	78.4	66.3	97.3	73.8	61.1	3.4	5.9	3.4	11.6	7.0	5.2
Brazil	1.5	1.3	6.9	3.0	0.3	0.1	2.9	2.7	1.5	-	0.1	0.1
Chile	6.1	9.4	22.1	-	-	-	-	-	-	-	-	-
Colombia	12.6	9.8	3.4	7.8	9.4	13.5	2.2	2.0	1.2	1.9	2.4	3.0
Dominican Republic	0.2	0.2	-	-	-	-	0.2	-	-	-	-	-
Guatemala	1.0	0.5	-	-	-	-	0.2	0.2	0.2	0.1	-	-
Jamaica	0.1	0.2	0.3	-	-	-	0.1	0.2	0.3	-	-	-
Mexico	186.4	140.3	187.6	137.5	80.7	71.5	15.1	15.0	17.2	16.2	14.3	12.6
Paraguay	-	-	0.5	0.5	1.7	2.8	-	-	-	-	0.2	0.1
Peru	0.7	0.6	0.8	1.9	0.3	-	0.4	0.2	-	0.7	0.1	-
Trinidad and Tobago	2.0	1.8	3.0	-	-	-	0.2	0.2	-	-	-	-
Venezuela	62.3	80.4	64.7	31.6	98.8	57.9	3.1	4.5	6.4	3.9	5.9	8.4
AFRICA	7.7	8.2	8.6	7.2	7.5	15.3	3.5	3.6	2.8	3.1	4.3	3.8
North Africa	1.1	1.2	1.2	1.1	2.1	12.3	0.7	0.7	0.5	0.5	0.9	2.5
Egypt	0.4	0.4	0.5	0.9	2.0	12.2	0.4	0.4	0.2	0.4	0.8	2.4
Sudan	0.5	0.5	0.5	-	-	-	0.2	0.2	-	-	-	-
Tunisia	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other Africa	6.6	7.0	5.4	6.1	5.4	3.0	2.8	2.9	2.3	2.6	3.4	1.3
Cameroon	3.2	2.8	2.4	2.5	2.4	2.0	1.3	1.0	1.0	1.0	1.1	0.9
Kenya	2.4	3.2	2.0	2.6	2.0	1.0	1.2	1.6	1.0	1.3	1.0	0.4
Nigeria	1.0	1.0	1.0	1.0	1.0	-	0.3	0.3	0.3	0.3	1.3	-
ASIA	811.9	667.2	759.1	645.5	667.8	455.4	54.4	59.7	80.4	96.4	104.0	71.1
West Asia	28.7	22.0	10.6	7.1	8.3	5.5	11.6	9.2	5.8	6.3	5.0	4.4
Iran (Islamic Republic of)	1.0	1.0	1.0	-	-	-	0.2	-	-	-	-	-
Saudi Arabia	26.1	19.5	8.5	5.7	5.0	5.0	10.9	9.8	5.5	5.7	4.5	4.2
Turkey	1.6	1.5	1.1	1.4	1.3	0.5	0.5	0.4	0.3	0.6	0.5	0.2

3. World imports of manganese ore, 1987-1992
(continued)

Region country or area	Quantity (actual weight) (000 MT)						Value (Million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
South and South-East Asia												
Hong Kong	583.2	645.2	749.5	638.4	661.3	448.9	42.3	50.5	74.6	90.1	99.0	68.7
India	0.7	0.6	0.6	1.0	0.8	1.5	0.1	0.1	0.1	0.2	0.1	0.2
Indonesia	1.1	4.9	5.0	3.5	3.1	3.0	0.6	0.8	1.0	1.4	1.3	1.1
Malaysia	2.0	1.7	1.4	2.8	2.7	3.8	0.8	0.5	0.4	0.8	0.7	1.1
Pakistan	1.2	0.9	1.0	1.0	1.2	1.0	0.5	0.5	0.5	0.3	0.4	0.4
Philippines	27.7	25.1	11.8	0.5	28.7	0.1	1.2	1.1	0.7	0.1	2.2	-
Republic of Korea	3.8	3.2	3.2	20.2	15.0	4.5	1.4	1.3	1.3	2.0	4.0	2.0
Singapore	388.4	388.6	503.3	387.8	438.0	394.7	18.9	23.7	43.7	49.0	61.9	54.8
Sri Lanka	45.5	51.1	28.1	80.0	46.6	16.4	10.9	10.4	6.4	17.8	11.6	4.0
Taiwan	1.3	0.2	0.1	0.2	0.2	0.1	1.3	0.2	0.2	-	-	-
Taiwan	131.7	170.9	198.0	141.4	125.0	25.0	7.2	11.9	20.3	18.5	16.9	3.0
EUROPE												
Yugoslavia (former)	88.2	130.8	93.0	98.1	95.0	3.0	5.8	8.8	8.4	12.5	12.5	-
Yugoslavia (former)	88.2	130.8	93.0	98.1	95.0	3.0	5.8	8.8	8.4	12.5	12.5	-
Least developed countries	0.5	0.5	0.5	-	-	-	0.2	0.2	0.2	-	-	-
Mainly commodity exporting countries	7.9	10.8	23.4	0.5	1.7	2.8	0.7	0.8	0.7	0.1	0.2	0.1
COUNTRIES IN EASTERN EUROPE	1953.7	1889.4	2812.1	1277.2	958.4	542.8	51.3	68.8	67.5	105.7	88.8	54.7
Bulgaria	65.0	46.7	18.8	18.0	16.0	1.8	2.5	2.0	0.8	0.8	0.8	0.2
Czechoslovakia (former)	438.0	484.0	871.0	800.0	400.0	200.0	12.8	23.0	27.1	52.7	50.0	23.0
Germany (former DR)	58.0	64.5	59.0	30.0	-	-	1.7	2.3	1.9	1.0	-	-
Hungary	0.4	-	-	-	0.4	-	-	-	-	-	0.3	-
Poland	682.3	683.2	572.0	105.2	130.0	91.0	10.3	11.0	12.2	13.4	18.3	11.5
Romania	212.0	205.0	205.3	224.0	132.0	100.0	6.5	10.5	14.5	23.8	15.9	12.0
USSR (former)	400.0	400.0	285.0	300.0	280.0	150.0	17.5	21.0	11.0	14.0	13.5	8.0
SOCIALIST COUNTRIES OF ASIA	265.2	338.9	474.8	402.0	611.0	685.1	18.0	23.9	48.3	58.3	119.4	67.6
China	236.0	276.7	424.8	357.0	561.0	635.1	15.2	22.0	48.7	54.7	117.7	65.9
Democratic People's Republic of Korea	29.2	62.2	50.0	45.0	50.0	50.0	0.8	1.9	1.6	1.6	1.7	1.7

Source: UNCTAD secretariat.

4. World production of ferromanganese, 1981-1992
(thousand metric tons)

Region country or area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
WORLD	5729.4	5988.4	4988.9	4900.4	5045.5	5001.7	4954.5	5202.0	4638.9	4787.3	4414.0	4446.3
DEVELOPED MARKET ECONOMY COUNTRIES	2548.2	2269.5	1789.1	2277.8	2238.0	2021.4	1942.1	2174.7	2250.6	2302.7	2245.6	2284.7
AMERICA	284.0	213.0	185.0	271.2	257.3	202.5	267.5	268.0	295.0	305.0	300.0	300.0
Canada	109.0	103.0	107.0	118.0	119.0	126.0	165.0	181.0	185.0	185.0	180.0	180.0
United States	175.0	108.0	78.0	155.2	139.3	106.5	102.5	105.0	110.0	120.0	120.0	120.0
EUROPE	1184.9	1095.7	898.5	1210.3	1138.7	1031.7	976.2	1025.4	1098.3	1081.7	1099.0	1181.0
EEC	951.5	892.4	774.5	925.1	871.0	836.4	784.2	793.5	897.6	868.4	899.0	971.0
Belgium-Luxembourg	90.0	90.0	90.0	95.0	90.0	87.0	90.0	95.0	95.0	90.0	90.0	100.0
France	312.0	332.0	270.0	329.0	334.0	273.6	295.8	281.0	320.0	290.0	300.0	320.0
Germany	233.0	219.0	151.5	260.4	187.8	222.3	219.5	225.0	250.0	250.0	250.0	270.0
Italy	71.8	73.4	62.0	50.6	67.3	48.0	19.5	27.2	28.7	30.8	32.0	33.0
Portugal	65.0	27.0	33.0	30.0	23.0	20.0	17.0	10.0	13.2	12.0	12.0	13.0
Spain	95.7	90.0	95.0	85.0	86.0	86.0	50.0	48.0	50.0	52.2	55.0	60.0
United Kingdom	84.0	81.0	93.0	75.0	78.9	99.5	92.4	107.3	142.7	143.4	180.0	175.0
EFTA	203.4	200.3	224.0	285.2	267.7	195.3	192.0	237.9	200.7	213.3	200.0	200.0
Norway	233.4	203.3	224.0	285.2	267.7	195.3	192.0	237.9	200.7	213.3	200.0	200.0
SOUTH AFRICA	441.7	368.1	188.6	238.9	331.3	337.2	315.1	446.9	403.2	403.6	259.9	245.0
ASIA	568.0	540.0	390.0	485.0	441.7	359.0	332.3	378.4	394.1	452.4	511.9	418.7
Japan	568.0	540.0	390.0	485.0	441.7	359.0	332.3	378.4	394.1	452.4	511.9	418.7
OCEANIA	87.8	54.7	49.0	74.4	69.0	81.0	51.0	58.0	60.0	60.0	75.0	130.0
Australia	87.8	54.7	49.0	74.4	69.0	81.0	51.0	58.0	60.0	60.0	75.0	130.0
DEVELOPING COUNTRIES AND TERRITORIES	620.4	576.8	563.3	588.3	602.8	648.2	638.4	660.4	680.5	749.7	798.2	691.6
AMERICA	271.6	296.4	282.4	300.9	320.1	348.3	344.6	372.7	380.8	387.9	344.3	360.6
Argentina	25.5	30.8	30.0	28.0	23.6	19.6	21.4	19.7	24.4	23.8	24.0	25.0
Brazil	108.0	120.7	115.2	108.5	134.8	184.1	155.3	180.6	180.7	170.5	168.1	155.4
Chile	5.3	3.0	5.4	4.9	6.5	6.2	6.6	6.9	7.5	7.3	4.0	49.0
Mexico	131.3	140.8	140.3	160.1	163.7	158.4	161.3	165.5	168.0	186.3	147.2	131.2
Venezuela	1.5	1.5	1.5	1.5	1.5	1.8	-	-	-	-	-	-
AFRICA	2.2	2.0	1.8	1.9	1.9	8.0	6.5	2.8	1.0	1.0	-	-
Other Africa	2.2	2.0	1.8	1.9	1.9	8.0	6.5	2.8	1.0	1.0	-	-
Zimbabwe	2.2	2.0	1.8	1.9	1.9	8.0	6.5	2.8	1.0	1.0	-	-
ASIA	295.5	235.4	227.1	238.2	245.0	253.6	248.3	240.0	265.0	328.8	333.9	331.0
South and South-East Asia	295.5	235.4	227.1	238.2	245.0	253.6	248.3	240.0	265.0	328.8	333.9	331.0
India	209.0	158.0	154.2	158.3	166.0	179.9	173.3	138.3	148.1	201.2	198.0	201.0
Republic of Korea	68.0	60.4	52.9	59.9	61.0	53.7	58.0	75.9	65.3	84.0	65.9	80.0
Taiwan	17.8	17.0	20.0	20.0	18.0	20.0	17.0	25.8	30.6	43.6	50.0	50.0
Thailand	0.4	-	-	-	-	-	-	-	-	-	-	-
EUROPE	51.1	42.0	42.0	47.3	35.8	39.3	38.0	45.1	33.9	32.0	30.0	-
Yugoslavia (former)	51.1	42.0	42.0	47.3	35.8	39.3	38.0	45.1	33.9	32.0	30.0	-
Mainly commodity exporting countries	5.3	3.0	5.4	4.8	8.5	6.2	6.6	6.9	7.5	7.3	4.0	49.0
COUNTRIES IN EASTERN EUROPE	1966.8	2001.1	2076.5	1474.3	1584.7	1636.1	1628.1	1621.9	962.8	964.9	695.0	620.0
Bulgaria	34.0	34.0	34.0	22.0	30.0	32.0	31.0	31.0	31.0	30.0	30.0	20.0
Czechoslovakia (former)	58.1	53.7	62.5	63.0	62.3	57.6	59.2	60.8	63.5	64.2	55.0	40.5
Germany (former DR)	70.0	64.0	65.0	65.0	63.0	68.0	68.0	68.0	68.0	50.0	-	-
Poland	150.7	134.4	135.0	87.9	99.4	95.5	96.3	31.1	90.5	71.0	60.0	60.0
Romania	70.0	75.0	80.0	87.0	96.0	82.0	81.0	70.0	60.0	49.7	50.0	50.0
USSR (former)	1584.0	1640.0	1700.0	1149.4	1250.0	1361.0	1293.6	1309.0	630.0	700.0	500.0	450.0
SOCIALIST COUNTRIES OF ASIA	596.0	542.0	560.0	560.0	620.0	695.0	745.0	745.0	745.0	750.0	765.0	850.0
China	526.0	472.0	490.0	490.0	550.0	625.0	675.0	675.0	675.0	680.0	695.0	780.0
Democratic People's Republic of Korea	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0

Source: UNCTAD secretariat.

5. World exports of ferromanganese, 1987-1992

Region country or area	Quantity (000 MT)						Value (Million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	1140.9	1278.1	1141.5	1200.0	962.5	860.0	409.5	578.2	674.7	750.5	594.2	553.1
DEVELOPED MARKET ECONOMY COUNTRIES	735.9	828.8	791.3	747.7	650.5	598.8	288.8	406.2	518.9	527.2	433.1	412.5
AMERICA	25.7	29.7	27.9	26.5	28.3	13.9	8.7	12.8	17.0	14.3	21.1	14.2
Canada	23.1	26.6	21.9	15.0	13.7	0.4	6.6	9.7	9.7	7.6	5.6	0.2
United States	2.6	3.1	6.0	5.5	14.6	13.5	2.1	2.9	7.3	6.7	15.5	14.0
EUROPE	327.6	373.9	402.6	367.3	389.8	348.1	171.7	238.8	315.7	316.4	288.4	278.5
EEC	150.3	168.5	233.2	193.1	244.7	187.6	84.7	116.2	176.9	166.4	177.9	127.5
Belgium-Luxembourg	21.3	24.3	45.8	22.6	34.7	9.0	6.2	11.1	25.8	14.7	19.3	4.2
France	21.1	31.9	21.6	25.7	57.7	57.7	19.6	30.2	28.2	31.9	49.0	35.3
Germany	86.4	80.7	95.1	78.4	56.0	38.9	35.6	52.1	77.4	71.9	45.0	32.4
Italy	3.6	3.8	4.1	4.0	7.9	9.6	3.7	4.5	4.5	5.5	12.6	13.5
Netherlands	1.2	0.1	3.2	0.1	0.3	0.5	0.6	0.1	1.4	0.1	0.4	0.4
Portugal	8.6	3.6	1.0	0.5	-	-	-	1.7	0.5	0.3	-	-
Spain	13.1	11.3	24.2	20.4	16.5	23.2	10.9	12.7	16.4	16.4	16.9	12.5
United Kingdom	14.0	9.8	38.2	41.4	77.0	59.8	4.4	3.8	20.7	25.6	35.7	29.2
EFTA	172.3	205.4	169.4	174.2	145.7	150.5	37.0	120.6	138.6	150.0	110.5	151.0
Norway	176.8	204.4	168.5	173.4	145.1	150.0	36.6	119.8	138.0	149.0	108.8	116.0
Sweden	0.5	0.9	0.8	0.7	0.5	0.5	0.4	0.7	0.7	0.9	0.6	35.0
Switzerland	-	0.1	0.1	0.1	0.1	-	-	0.1	0.1	0.1	0.1	-
SOUTH AFRICA	316.0	388.1	317.0	311.2	202.5	180.0	85.9	137.8	162.9	171.0	106.5	88.0
ASIA	19.1	12.8	15.1	5.6	5.0	8.4	9.8	9.1	11.7	5.9	6.0	8.2
Japan	19.1	12.8	15.1	5.6	5.0	8.4	9.6	9.1	11.7	5.9	6.0	8.2
OCEANIA	47.5	34.3	28.7	43.1	24.9	46.4	10.7	9.9	11.6	19.6	11.1	15.6
Australia	47.5	34.3	28.7	43.1	24.9	46.4	10.7	9.9	11.6	19.6	11.1	15.6
DEVELOPING COUNTRIES AND TERRITORIES	100.7	115.5	84.9	151.8	133.3	80.6	32.6	57.3	49.5	86.3	73.2	52.4
AMERICA	88.9	95.2	65.8	117.7	94.1	62.7	28.1	48.7	44.2	71.6	63.2	48.8
Argentina	-	-	-	0.2	0.4	-	-	-	-	0.1	0.3	-
Brazil	48.5	45.8	31.0	65.7	61.2	47.3	13.4	17.7	15.4	34.5	32.1	29.0
Chile	0.6	0.5	0.2	0.2	0.1	-	0.2	0.2	0.2	0.2	-	-
Mexico	38.8	49.9	34.4	51.6	32.4	15.4	15.5	30.8	29.6	36.8	30.7	24.9
Venezuela	-	-	-	-	-	-	-	-	-	-	0.1	1.2
ASIA	2.3	5.1	11.3	23.9	30.2	17.9	0.3	1.2	2.6	9.1	5.0	3.6
West Asia	-	-	-	-	-	-	-	-	-	-	0.3	0.1
Turkey	-	-	-	-	-	-	-	-	-	-	0.3	0.1
South and South-East Asia	2.3	5.1	11.3	23.9	30.2	17.9	0.3	1.2	2.6	9.1	4.7	3.5
India	1.6	3.4	3.5	18.6	19.7	15.0	0.2	1.2	1.3	8.2	4.7	3.5
Philippines	-	-	-	-	4.2	0.3	-	-	-	-	-	-
Republic of Korea	-	-	2.2	1.4	-	-	-	-	1.3	0.9	-	-
Singapore	0.6	1.7	5.6	2.9	8.3	2.6	-	-	-	-	-	-
Taiwan	0.1	-	-	-	-	-	0.1	-	-	-	-	-
EUROPE	9.5	15.2	7.8	10.2	9.0	-	3.2	7.4	2.7	5.8	5.0	-
Yugoslavia (former)	9.5	15.2	7.8	10.2	9.0	-	3.2	7.4	2.7	5.8	5.0	-
Mainly commodity exporting countries	0.6	0.5	0.2	0.2	0.1	-	0.2	0.2	0.2	0.2	-	-
COUNTRIES IN EASTERN EUROPE	291.8	265.0	245.2	230.0	105.0	103.0	66.5	98.7	97.0	100.2	52.5	48.4
Bulgaria	1.9	-	-	-	-	-	0.3	-	-	-	-	-
Czechoslovakia (former)	18.8	15.0	15.2	10.0	5.0	3.0	6.7	5.0	5.0	5.2	2.5	1.4
USSR (former)	274.9	250.0	230.0	220.0	100.0	100.0	79.5	91.7	92.0	95.0	50.0	48.0
SOCIALIST COUNTRIES OF ASIA	12.5	55.8	20.2	70.5	73.7	79.6	3.8	19.0	9.3	36.8	35.4	38.8
China	12.5	55.8	20.2	70.5	73.7	79.6	3.8	19.0	9.3	36.8	35.4	38.8

Source: UNCTAD secretariat.

6. World imports of ferromanganese, 1987-1992

Region country or area	Quantity (1000 t)						Value (Million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	1240.0	1452.2	1290.5	1223.9	1072.7	1002.8	469.4	704.5	663.2	679.9	753.3	654.6
DEVELOPED MARKET ECONOMY COUNTRIES	821.2	1037.2	905.6	870.5	833.6	783.3	330.7	519.1	642.3	678.0	593.9	517.0
AMERICA	355.4	503.0	390.3	327.1	298.1	288.2	136.6	243.8	297.6	274.2	235.1	210.2
Canada	39.6	35.1	44.0	29.3	46.1	49.9	19.2	22.4	40.8	27.0	40.8	36.8
United States	315.8	467.9	346.3	297.8	252.0	238.3	121.4	226.4	256.8	247.2	194.3	173.3
EUROPE	439.2	489.6	495.9	492.8	494.4	458.7	180.4	258.6	329.4	377.0	333.1	294.9
EEC	377.4	432.7	421.9	425.8	432.4	402.6	157.1	220.5	281.7	324.2	290.6	247.7
Belgium-Luxembourg	59.3	64.2	50.9	47.5	64.4	53.6	23.4	30.3	32.2	36.2	38.1	37.0
Denmark	1.3	1.5	2.4	2.3	2.5	2.5	0.6	0.7	1.4	1.7	1.6	1.4
France	59.4	53.3	86.5	83.5	78.7	44.0	25.9	35.6	58.6	69.9	83.1	35.9
Germany	98.2	109.6	89.0	126.9	130.9	130.2	38.0	53.4	62.1	88.0	81.9	73.6
Greece	3.7	4.0	6.5	5.0	4.3	2.9	1.7	2.1	4.3	3.7	2.8	1.6
Ireland	0.2	-	-	-	-	-	0.1	-	-	-	-	-
Italy	89.4	89.0	90.9	78.2	77.9	91.5	36.5	43.2	58.4	54.1	44.5	47.7
Netherlands	14.3	18.9	16.3	17.6	17.2	18.4	5.8	9.2	10.7	13.0	11.4	11.0
Portugal	0.5	4.7	3.8	5.9	5.3	2.0	0.3	2.4	6.5	4.1	3.2	1.8
Spain	14.1	9.1	6.5	13.9	19.5	22.3	5.1	3.8	5.1	8.9	11.4	11.5
United Kingdom	37.0	67.9	53.1	45.7	31.7	25.2	19.8	39.8	44.4	43.6	31.5	31.0
EFTA	55.8	67.5	74.0	67.0	62.0	55.7	23.3	36.3	47.7	52.8	42.5	37.2
Austria	18.8	23.9	23.9	22.2	20.0	20.0	8.2	13.0	14.7	18.6	16.3	15.5
Finland	7.9	5.9	8.8	10.8	8.8	5.4	3.4	3.6	6.6	8.8	5.9	3.7
Norway	3.1	2.0	9.7	3.7	9.5	6.2	0.8	0.5	3.4	1.4	3.5	2.3
Sweden	29.0	31.1	27.0	24.9	18.9	20.3	11.1	16.7	18.5	19.8	14.5	13.1
Switzerland	-	4.8	4.6	5.4	3.8	3.8	-	2.5	3.1	4.3	2.6	2.9
SOUTH AFRICA	0.1	0.1	0.1	0.1	-	-	0.1	-	-	0.1	-	-
ASIA	28.0	28.1	22.8	44.4	33.8	26.5	7.7	8.2	9.9	19.6	18.7	13.4
Israel	0.6	0.7	1.0	1.1	1.0	1.0	0.5	0.7	1.2	1.0	1.0	1.0
Japan	27.4	27.4	21.8	43.3	32.6	25.5	7.2	9.5	9.7	18.6	17.7	12.4
OCEANIA	4.5	6.4	6.7	6.1	0.5	12.3	2.9	4.3	5.4	5.1	7.0	8.5
Australia	3.8	4.9	5.3	4.0	7.5	9.9	2.5	3.6	4.3	3.4	5.3	6.9
New Zealand	0.6	1.5	1.4	2.1	2.0	2.4	0.4	0.7	1.1	1.7	1.7	1.6
DEVELOPING COUNTRIES AND TERRITORIES	194.0	207.6	211.5	214.6	200.2	190.3	76.6	165.4	149.6	147.7	139.0	122.6
AMERICA	56.1	53.7	46.1	37.6	35.0	22.3	18.7	23.9	30.8	27.3	24.7	17.9
Argentina	2.9	3.9	2.4	2.1	1.0	1.9	2.1	2.5	3.3	2.2	1.2	1.8
Brazil	-	-	0.1	-	10.7	3.8	-	-	0.1	-	7.2	2.1
Chile	0.4	0.3	3.0	-	0.3	0.3	0.3	0.4	2.5	0.2	0.5	0.5
Colombia	8.6	7.2	5.8	5.0	3.7	3.9	3.6	3.4	4.1	3.7	2.8	2.6
Dominican Republic	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	-	-
Ecuador	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.1
Mexico	0.1	0.7	0.4	0.3	0.6	9.1	0.1	0.5	0.4	0.4	0.5	0.6
Paraguay	0.1	0.4	0.2	0.5	1.1	1.5	-	0.2	0.2	0.3	0.6	0.8
Peru	1.9	1.8	2.3	2.0	0.6	0.5	1.1	0.8	1.6	1.5	0.5	0.4
Trinidad and Tobago	0.2	0.2	0.1	0.1	0.2	-	0.2	0.2	0.5	1.1	0.1	-
Uruguay	0.2	0.6	0.9	0.6	0.5	-	0.1	0.4	0.8	0.5	0.7	-
Venezuela	41.0	37.9	30.4	26.5	16.0	1.1	11.6	15.0	18.0	16.9	10.4	0.9
AFRICA	21.6	23.4	15.8	23.8	29.8	18.1	8.8	13.5	10.8	15.1	19.7	16.3
North Africa	18.7	18.9	11.7	18.0	26.9	16.4	7.6	11.8	8.1	12.1	18.2	9.3
Algeria	2.2	2.3	3.8	0.5	0.2	0.2	1.1	6.4	2.7	0.7	0.7	0.7
Egypt	18.4	11.9	9.0	17.8	28.3	15.5	4.4	4.9	5.3	10.9	17.2	8.1
Morocco	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
Tunisia	-	0.6	-	0.5	0.2	3.5	-	0.4	-	0.3	0.7	0.3
Other Africa	2.9	3.5	4.1	4.8	2.7	1.7	1.2	1.7	2.7	4.0	1.5	1.0
Kenya	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0.4	-	-
Nigeria	2.5	3.0	3.5	4.0	2.0	1.9	1.1	1.5	2.5	3.2	1.2	0.7
Zimbabwe	0.1	0.2	0.9	0.5	0.6	0.6	-	-	-	0.4	0.3	0.3
ASIA	115.2	128.9	146.6	146.3	130.6	149.9	47.5	65.9	103.5	98.3	90.6	94.4
West Asia	49.8	45.1	58.5	38.3	41.6	50.7	17.4	21.5	39.1	25.3	25.3	28.7
Iran (Islamic Republic of)	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.4	0.6	0.7	0.5	0.5
Iraq	0.1	0.1	0.1	-	-	-	-	-	-	-	-	-
Qatar	2.0	2.0	2.0	2.0	7.0	7.0	1.1	1.2	1.2	1.3	5.6	4.8

6. World imports of ferromanganese, 1987-1992
(continued)

Region country or area	Quantity (000 MT)						Value (million US\$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
of Arabia	-	-	0.3	0.3	0.5	0.5	-	-	0.3	0.3	0.4	0.4
ian Arab	-	-	-	-	-	-	-	-	-	-	-	-
public	5.0	8.0	4.0	3.0	3.0	2.0	1.5	2.0	3.5	3.0	2.5	1.7
key	41.7	38.0	51.1	32.0	30.1	40.2	14.3	17.9	30.5	20.0	18.9	21.3
outh and	-	-	-	-	-	-	-	-	-	-	-	-
outh-East Asia	65.4	83.8	88.1	108.0	89.0	98.2	30.4	44.4	64.4	73.0	85.1	85.7
ladesh	0.3	-	-	-	-	-	0.3	-	-	-	-	-
g Kong	2.4	8.7	8.9	12.2	14.1	5.7	1.1	4.2	4.2	7.0	7.3	3.0
a	0.2	0.3	-	0.2	0.1	0.2	0.2	0.2	-	0.3	0.1	0.1
onesia	13.7	6.8	21.6	17.7	17.5	15.8	5.1	3.8	12.0	11.4	10.9	8.5
aysia	5.2	17.2	7.6	15.9	9.0	7.5	5.0	10.6	12.1	14.4	14.8	12.0
istan	12.4	11.3	12.2	21.3	8.3	8.2	4.8	4.5	9.1	12.2	5.2	4.6
ippines	2.3	3.9	4.0	2.5	2.3	2.8	1.2	2.2	2.4	1.7	1.5	1.9
ublic of Korea	4.4	3.7	4.3	7.8	9.1	26.6	2.6	2.6	5.1	6.2	7.6	16.6
apone	2.0	1.2	3.9	2.4	3.1	3.2	0.8	0.6	2.4	1.5	1.8	1.7
van	18.0	23.9	18.9	21.1	20.0	20.0	7.5	11.7	12.4	13.1	12.0	11.7
iland	3.8	6.8	6.7	6.8	5.5	9.4	1.8	3.9	4.7	5.2	4.1	5.6
LOPE	1.1	1.6	3.0	6.9	5.0	-	1.5	2.1	4.5	6.0	4.0	-
ostavia (former)	1.1	1.6	3.0	6.9	5.0	-	1.6	2.1	4.5	6.0	4.0	-
st developed	-	-	-	-	-	-	-	-	-	-	-	-
ntries	0.3	-	-	-	-	-	0.3	-	-	-	-	-
nly commodity	-	-	-	-	-	-	-	-	-	-	-	-
orting countries	0.9	1.0	3.4	0.7	1.5	1.8	0.4	0.7	2.8	0.7	1.1	1.3
NTRIES												
ASTERN EUROPE	220.3	205.4	170.8	137.3	37.4	27.8	79.2	78.3	58.5	55.2	19.4	14.0
ania	1.0	1.0	0.8	0.8	0.7	0.3	0.5	0.8	0.4	0.4	0.4	0.1
aria	4.0	3.9	8.0	4.0	3.0	3.0	1.4	1.3	2.2	1.4	1.0	1.5
choslovakia (former)	35.0	15.0	6.5	4.3	4.0	2.0	14.0	7.0	5.4	3.7	3.4	1.5
many (former DR)	73.0	75.0	60.0	35.0	-	-	29.0	30.0	27.0	18.0	-	-
gary	38.3	38.4	30.0	25.0	10.1	7.3	5.9	11.0	16.0	15.0	5.6	3.8
and	21.0	25.0	20.0	20.0	15.0	12.0	8.4	8.4	8.0	8.0	7.0	5.5
ania	56.0	56.0	47.5	48.2	4.6	3.0	20.0	21.0	10.5	10.7	2.0	1.5
IALIST COUNTRIES												
ASIA	7.5	2.0	2.4	1.5	1.5	1.8	2.9	0.7	1.8	1.0	1.0	1.0
ia	0.8	0.5	1.0	-	-	0.1	0.4	0.3	0.8	-	-	0.1
ocratic People's	-	-	-	-	-	-	-	-	-	-	-	-
ublic of Korea	6.7	1.5	1.4	1.5	1.5	1.5	2.5	0.4	1.0	1.0	1.0	0.9

Source: UNCTAD secretariat.