Distr.
GENERAL
UNCTAD/COM/55

14 February 1995

ENGLISH ONLY

## UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

REVIEW OF CURRENT MARKET DEVELOPMENTS ON MANGANESE - 1994

Report by the UNCTAD secretariat

#### CONTENTS

		<u>Paragraph</u>
I.	World supply	2 - 7
II.	World demand	8 - 12
III.	International Trade	13 - 16
IV.	World prices	17 - 20

#### **TABLES**

Table 1: Manganese ore production by the ten largest producing countries

Table 2: Major manganese trade partners - 1986, 1993

#### CHARTS

Chart 1: Top five manganese producing countries

Chart 2: World production of ferro manganese

Chart 3: Major exporters of manganese ores

Chart 4: Evolution of manganese prices

### STATISTICAL ANNEXES

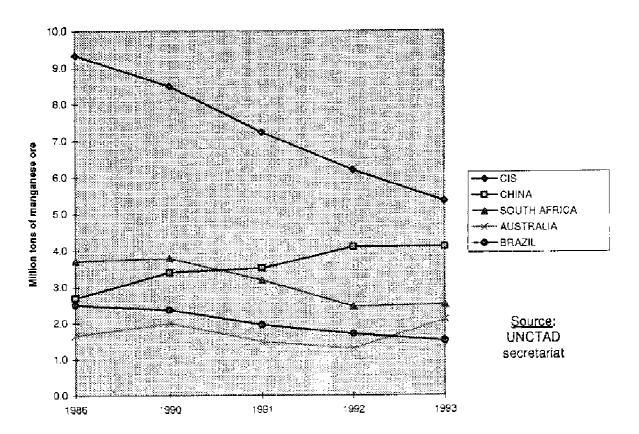
- 1. World production of manganese ore, 1981-1992
- 2. World exports of manganese ore, 1987-1992
- 3. World imports of manganese ore, 1987-1992
- 4. World production of ferromanganese, 1981-1992
- 5. World exports of ferromanganese, 1987-1992
- 6. World imports of ferromanganese, 1987-1992

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	<b>*</b> 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.

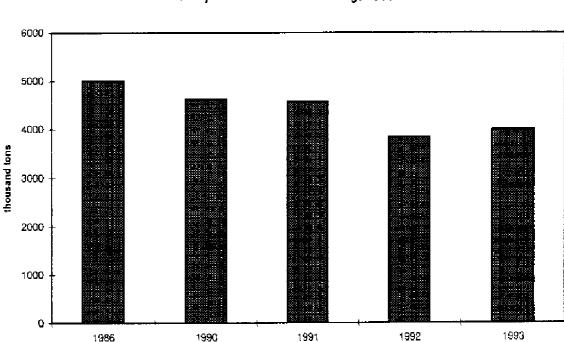


Chart 2
World production of ferro manganese

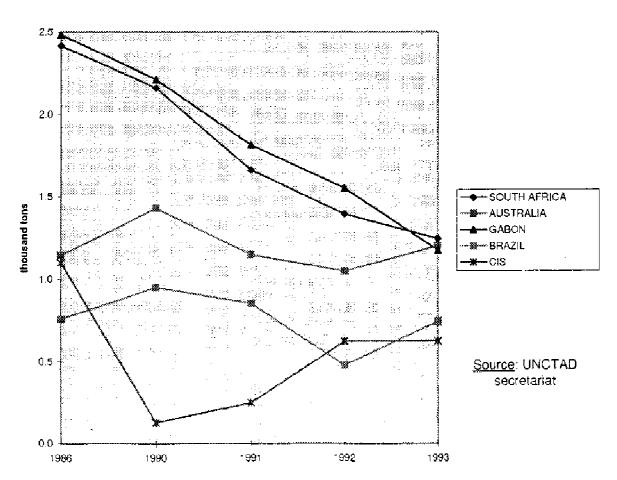
12. The Russian Federation remains the world's largest manganese alloys producer, even though energy shortages forced its plants to operate at only half capacity in 1993. France and Norway remain major importers of ores and top world suppliers of ferro-alloys to the world market. In Brazil, production 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.

Source: UNCTAD secretariat

#### 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

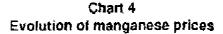
	Share (%	) of		Share (	%) of
Major exporters	world exp	ports	Major importers	world in	nports
	1986	1993		1986	1993
1. South Africa	24.5	21.1	1. Japan	21.3	23.8
2. Australia	13.0	20.4	2. France	9.0	14.4
3. Gabon	28.3	20.0	3. Norway	9.6	11.5
4. Brazil	8.6	12.7	4. China	2.3	10.0
5. CIS	12.5	10.7	5. Republic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

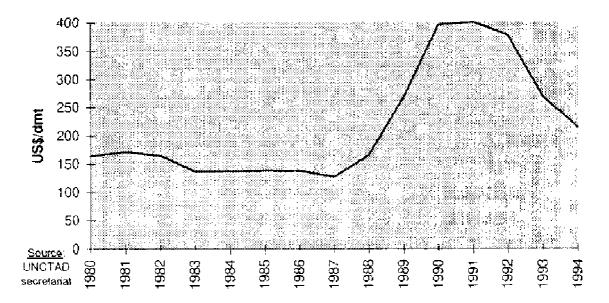
Source: UNCTAD secretariat.

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.





- 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

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

DEVELOPED MARXET   Coronwork COUNTRIES   CASE.   CAS	Region country or area	1981	1982	1980	1984	1985	1996	1987	1988	1999 .	1990)	1991	!992
## AMERICA   18.1   14.0   15.0   -	WORLD	23502.6	24216.7	22585.8	24855.3	25193.5	24797.5	23533.2	24248.7	25192.9	25176.2	21506.9	20718,2
AMERICA  198.1 14.8 15.0	DEVELOPED MARKET	6728.0	6450.4	4359.8	4975.3	5630.6	5385.6	4754.2	5449.0	5762.1	5789.1	4693.6	3764.5
16.50   16.5	AMERICA				-		-	-	-	- 1	-	-	-
Company   17.0		44 5	107	11 8	14.9	13.8	11.4	9.8	19.7	14.9			2.5
Graece   \$8   98   49   44   30   64   38   97   59   60   83   Talay   88   97   70   82   364, 38   37   59   60   83   SOUTH AFRICA   5035,7   \$218.3   2804.0   3048,4   3861.0   3119.3   2892.1   3455.0   3022.2   3792.1   3190.8   ASIA   67.2   76.0   77.0   62.0   21.0   6.0   0.0   ASIA   67.2   76.0   76.0   77.0   62.0   21.0   6.0   0.0   ASIA   67.2   76.0   76.0   76.0   76.0   76.0   76.0   76.0   ASIA   67.2   76.0					14.9	13.6							2.5 2.5
SOUTH AFRICA 5035,7 \$218.3 \$2606.0 \$046,4 \$601.0 \$719.3 \$2892.1 \$745.0 \$792.1 \$792.1 \$790.6 \$2.0 \$21.0 \$6.0 \$770.0 \$62.0 \$21.0 \$6.0 \$1.0 \$0.2 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0	Greece												
SOUTH AFRICA   \$093,7   \$216,3   \$2984,6   \$304,4   \$901,0   \$171,0   \$2.0   \$2.0   \$0.0   \$0.2   \$1.0   \$0.0   \$1	Italy		9/		<u>!</u>		2.,				2702.1	2190.6	2452.0
ASIA ASIA ASIA ASIA ASIA ASIA ASIA ASIA	SOUTH AFRICA	5039.7	5218.3	2996.0	3049.4	3501.0	3719.3	2892.1		30 % a. K	grae.i	7,30.5	
Japan	ASIA							: 1		-	-	- !	-
DCEANIA   1449.0   1427.0   1370.0   1349.0   2000   1648.0   1353.3   1376.1   2124.0   1568.0   1482.0   14	Japan	8/ 2		ļ						74048	1000 0	: 1899 ñs	1300.0
MATERICA 2441.5 2751.3 2756.9 97.44 2956.8 2759.7 2991.9 2364.3 2289.2 2394.4 2854.7 2281.9 2364.3 2289.2 2394.4 2854.7 2281.9 2364.3 2289.2 2394.4 2854.7 2281.9 2364.3 2281.0 1956.0 1956.0 1956.0 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.7 1956.0 2456.0 2													1300.0
AMÉRICA 2441.5 218.3 1.3 1.3 1.3 1.3 1.3 229.4 2890.0 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1900 to 2261 0 1990 to 24997 1944 8 1822.9 1940 to 2261 0 1990 to 24997 1940 to 24997 1940 to 2261 0 1990 to 24997 1940 to 24997		5903.5	6082.4	5746.9	6743.1	6841.1	7208.7	6499.0	6308.8	6824.B		!	6353.7
Argentina 3.1 1.3 1.3 1.7 1.7 2.6 2.7 2.6 2.4 1.2 100.4 10.2 100.4 10.2 100.4 10.2 100.4 10.2 100.4 10.2 100.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.4 10.2 10.4 10.2 10.4 10.4 10.2 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	014501CA	2441.5	2751.3	2285.4	2960.8	2753.7							2902.0
Bright		3.1	1.3										2471
Chie												34 3	23.0
AFRICA 1855.3 1742.0 2110.0 2558.7 2703.5 2809.4 2689.3 2514.7 2867.0 2846.8 22001.4 2600.4 2									395 01	448 0	451.0	275.0	405.0
North Africa 110.0 94.0 73.5 59.1 43.7 36.7 42.5 30.1 32.6 12.8 56.0 Morrocco 110.0 94.0 73.5 59.1 43.7 36.7 42.5 30.1 32.6 12.8 56.0 Morrocco 110.0 94.0 73.5 59.1 43.7 36.7 42.5 30.1 32.6 12.8 56.0 Morrocco 110.0 94.0 73.5 59.1 43.7 36.7 42.5 30.1 32.6 12.8 56.0 Morrocco 110.0 94.0 1404 5 1862 3 2212.9 2344 2 2513.4 2403.2 2251.7 9500 8 2423.0 235.0 Chana 223.1 153.9 173.1 286.7 315.9 253.9 253.6 239.9 234.2 230.0 235.0 Chana 30.8 3.6 2.0 1.0 15.5 15.0 15.0 15.0 15.0 15.0 15.				2110.9	2558.7	2703.5	2809.4	2699.3	2514.7	2857.0	2046.8	2001.4	
Morocco	North Africa	110.0	i 94.0	73.5	59.1	43.7			30.1				33.4 33
Check Africa   1746.3   1848.0   2837.4   2897.8   2293.8   273.2   2293.8   2293.7   2500.8   2423.0   1620.4     Chana   223.1   159.9   173.1   286.7   315.6   259.3   253.6   239.9   334.2   390.0   325.0     Chana   233.1   159.9   173.1   286.7   315.6   259.3   253.6   239.9   334.2   390.0   325.0     Chana   233.1   159.9   173.1   286.7   315.6   259.3   253.6   239.9   334.2   390.0   325.0     Chana   30.8   3.6   2.0   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6     Chana   1575.7   1541.7   1319.9   1204.8   1350.9   1339.4   1325.4   1421.9   1435.4   1587.0   1628.0     Chana   1575.7   1541.7   1319.9   1204.8   1350.9   1339.4   1325.4   1421.9   1435.4   1587.0   1628.0     Chana   1575.7   1541.7   1319.9   1204.8   1350.9   3.8   8.9   8.9   8.9   8.9     Chana   1587.0   140.0   40.0   40.0   34.0   30.0   60.0   49.0   65.0   65.0     Chana   1580   1494.4   1275.3   1154.1   1297.1   1298.5   1282.6   1353.0   1258.5   1522.0   1563.0     South and   1540.8   1494.4   1275.3   1154.1   1297.1   1298.5   1282.6   1353.0   1258.5   1522.0   1563.0     South-East Asia   1540.8   1494.4   1275.3   1154.1   1297.1   1298.5   1282.6   1334.2   1492.0   130.0     India   1526   1468.0   1250.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1250.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1492.0   130.0     Chana   1526   1468.0   1260.0   1260.0   1260.0   130.0   1275.0   1334.2				79.5	59.1	43.7	36.7	42.5	30 1				
Gabon (1491.4) 1484.5   1862.3   2212.9   2344.2   2213.1   2434.2   2213.1   2434.2   2314.3   2434.2   230.9   234.2   390.0   325.0   Zaire   30.8   3.6   2.0   1575.7   1541.7   1319.0   1204.6   1350.9   1339.4   1325.4   1421.5   1435.4   1587.0   1628.0   ASIA   1575.7   1541.7   1319.0   1204.6   1350.9   1339.4   1325.4   1421.5   1435.4   1587.0   1628.0   West Asia   34,9   47.3   43.2   50.5   53.8   42.9   38.9   68.9   76.0   65.0   65.0   Iran (Islamic   20.0   40.0   40.0   40.0   40.0   34.0   30.0   66.0   68.0   65.0   65.0   Turkey   4.9   7.3   0.2   10.5   13.8   9.9   8.9   9.9   8.9   South and   1540.8   1494.4   1275.8   1154.1   1297.1   1296.5   1286.5   1353.0   1358.5   1522.0   1563.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1284.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1284.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1284.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1284.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1284.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   1132.4   1258.7   1264.1   1275.1   1232.6   1334.2   1342.0   1500.0   India   1526.0   1468.0   1250.0   10.0   0.1	Other Africa	1745.3	1648.0	2037.4									19 <b>16.</b> -
Ghana Zalre	Gabon												362.
ASIA 1575.7 1541.7 1349.0 1294.6 1350.9 1339.4 1325.4 1421.5 1435.4 1587.0 1628.0 West Asia   34.9 47.3 43.2 50.5 53.8 42.9 38.9 68.9 78.9 65.0 65.0   1628.						313.0	230.0			-		-	•
West Asia 34,9 47.3 43.2 50.5 53.8 42,9 38.9 68.9 76.6 65.0 66.0 liam (Islamic Republic of) 20.0 40.0 40.0 40.0 34.0 30.0 60.0 48.6 66.0 48.6 65.0 A5.0 liram (Islamic Republic of) 20.0 40.0 40.0 40.0 34.0 30.0 60.0 48.6 66.0 48.6 66.0 liam (Islamic Republic of) 14.9 7.3 3.2 10.5 13.8 69. 89 69.		<b>.</b>				1350.9	1339.4	1325.4	1421.9	1435.4	1587.0	1628.0	1500.
West Asia         34,9         47,3         43,2         50,5         53,6         53,6         50,0         60,0         68,0         68,0         65,0         65,0         73,0         65,0	ASIA			ì				200	695	76.9	65.0	65.0	_
Republic of)		34.9	1 47.3	43.2	50.5	. 53.8	<b>42</b> ,5	40.3					
South and   South-East Asia   I540.8   1494.4   1275.3   1153.1   1297.1   1296.5   1286.5   1353.0   1358.5   1522.0   1563.0   1500.0		20 (	j 40 0	40.0							65.0	65 C	
Squth-East Aeia   1540.8   1484.4   1275.8   1454.1   1287.1   1287.1   1287.5   1288.5   1		14.9	7.3	3.2	10-5	13.8	89	. 89	រ សភ	8.5	•		
South-East Asia   1540.8   1484.4   1275.8   1184.4   1275.8   1284   1287.1   1284   1275.1   1332.6   1334.2   1492.0   1500.0     India	South and	1						4000 5	1252.0	12585	1529 B	1563.0	1500-
India													
Philippines 1.2 9.7 0.7 0.6 0.4 0.8 0.4 2.2 1.3 Philippines 1.2 9.7 0.7 0.1 0.1 0.1 0.1 0.1 1.1 1.1 1.0 16.0 Thailand 10.9 7.7 6.7 8.7 4.4 4.9 9.1 7.9 11.0 16.0 Thailand 10.9 7.7 6.7 8.7 4.4 4.9 9.1 7.9 11.0 16.0 Thailand 10.0 27.4 31.8 19.0 33.0 68.0 110.0 107.0 124.0 120.0 100.0 Tyugoslavia (former) 31.0 27.4 31.8 19.0 33.0 68.0 110.0 107.0 124.0 120.0 100.0 Tyugoslavia (former) 31.0 27.4 31.8 19.0 33.0 68.0 110.0 107.0 124.0 120.0 100.0 Tyugoslavia (former) 30.9 3.8 2.0											14,0	13.0	-
Republic of Korea					0.6	0.4		ስፋ	2 2	13			_
Thailand  EUROFE 31.0 27.4 31.6 19.0 33.0 68.0 110.0 107.0 124.0 120.0 100.0 1	Republic of Korea							. 91	7.9	110	16.0	-	-
EUROPE 31.0 27.4 31.6 19.0 33.0 69.0 110.0 100.0 Yugoslavia (former) 31.0 27.4 31.6 19.0 33.0 68.0 110.0 107.0 120.0 100.0 Yugoslavia (former) 30.9 3.6 2.0	Thailand	70.		Ļ				ł		!	120.0	: : 100.0	
Yugoslavia (former)         31 U         27 4         31 U         32 U </td <td></td> <td></td> <td>• •</td> <td></td> <td></td> <td>!</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			• •			!							
Mainly commodity   248.5   176.0   199.2   312.9   351.2   290.9   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   285.4   274.6   378.0   419.7   359.3   3	Yugoslavia (former)	311	DI 2744	311	100	) 				}	i		ł
248.5   176.0   199.2   312.9   351.2   290.9   293.0   293.		30.3	9 <sub>i</sub> 3.6	2.0	-	-	-	! !	-	-	-	  -  -	-
COUNTRIES IN EASTERN EUROPE 9340.5 10004.9 10058.3 10267.9 19089.8 9503.2 9530.0 9250.9 9278.0 8575.0 7310.0 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		248.	5 176.0	199.2	312.5	351.2	290.9	285.4	274.6	0.870	419.7	359.3	385.
IN EASTERN EUROPE         9340.5  10004.9  10058.3  10267.9  10069.8  9303.2  93.50.0  35.0  30.0  35.0  30.0  37.2  28.1  35.4  40.0  35.0  30.0  30.0  37.2  28.1  35.4  40.0  35.0  30.0  3	·						İ			2 2500	0672 0	7740 0	6500.
Bulgaria         30.01         43.01	IN EASTERN EUROPE												
Czecnostovakia (former) 92 8 83.0 59.0 67.0 63.0 63.0 69.9 42.0 45.0 40.0 40.0 40.0 40.0 40.0 40.0 40						/  55.5		-	-	•	-		: -
Romania 570 55.0 78.0 68.0 67.0 65.0 65.0 69.0 720.0 85.0 720.0 85.0 720.0 85.0 720.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 8					67.0	63.0						400	į -
		57	D 55.0	78 (	9 66.0	) 68.D		65.0				7240 0	6500
		9150	0 9821.0	99761	o 10099.0	), 990000 	1 asap 0	945/6	( J. 1917 )	]			
SOCIALIST COUNTRIES 1530.0 1699.0 2420.0 2869.0 2544.0 2700.0 2750.0 3242.0 3330.0 3404.0 3522.0 0		1530.	0 1699.0	2420.4									

2. World exports of manganese ore, 1987-1992

			Quantity  :  00	actual weigh IOMT)	1)		Valua (Miltion 95 <b>3</b> )						
Region country or pres	1987	198B	1999	1990	1991	:992	1987	198 <b>A</b>	1984	1990	1991	1992	
WORLD	7568.2	5031.2	9959.8	7882.9	6731.7	5457.2	324.5	494.0	910.0	1115.9	953.5	645,R	
DEVELOPED MARKET ECONOMY COUNTRIES	3110.7	4532.3	4791.9	3809.7	3215.9	2695.6	122.3	250.9	369.1	554.8	485.1	339.5	
AMERICA United States	58.7 58.7	65.4 65.4	50.6 50.6	70.0 70.0	211.3 211.3	17.9 17.9	4.3 4.3	7.1 7 1	4.9	9.4 3.4	27.9 27.9	2.9 2.9	
EUROPE	182.2 182.2	178.0 168.0	175.3 167.3	149.6 118.6	192.6 164 8 :	223.7 223.7	23.2	25.7 25.1	33.1 37.9	<b>32.5</b> 27 f	36.61 31.21	34.6 34.6	
EEC Seigium-Luxembourg	0.7	1.4	4 3	0.3	12.9	14.2	0.1	0.2	1.6	0.1	2.3	2.6	
France	107 1	95 6	95 0	52 9 ;	97.3 [	143.7	5.1	5 3	B 5 2 1 ·	4.7  3.8	8.3 2.7	#1.9 3.5	
Germany	2 2	2 9	6.0	11.1	6.8 0.1	17.5 0.2	0.6	0.1	0.11			-	
Itały	0.5	0.7	0.61 #2.41	0.1 45.4	48.9	47.9	16.4	17.9	18.3	17.1	16.5	16.5	
Netherlands	51 91 19 51	57 01 (0.0)	56.4 [ 4.2]	8.4	83	"- "	9.7	03,	q.a	1.3	1 2		
Portugal United Kingdom	03	0.41	0.8	0.4	0.5	0.1	0.21	0.3	0.3	0.1	0.2	0.1	
EFTA	"-	10.0	80	370	27 8	-	0.1	0.6	F 2	5.4 5.4	5 4! 5 4	-	
Norway	-	10,0	8 0	31.04	27.8		0 1	0.6	1 2				
SOUTH AFRICA	1562.9	2705.0	2975.0	2160.0	1662.0	1394.0	57.1	127.8	211.1.	236.6	215.4	159.1	
ASIA Japan	1.8 1.8	0.9 0.9	-	0.1 0.1		-	0.7 0.7	0.3	-			•	
OCEANIA Australia	1 <b>308.0</b> 1308.0	1553.0 1553.0	1591.0 1591.0	1430U9 1430 0	1159.0 1150.0	1050.0	37.0 37.0	90.0	120.0	278.1 276.1	205.2 205.2	142,9 142,9	
DEVELOPING COUNTRIES AND TERRITORIES	3679.2	4256.1	4228.2	3907.2	3322.3	2641.6	170.3	205.9	509.2	542.2	459.8	291.1	
AMERICA	974.1	1216.8	1161.9	1015.4	869.3	553.1	37.4	55.3	74.6	91.0 93.0	91.01 85 6:	44.3 38 3	
Brazil Mexico	715.80 158.31	1048 5 168 3	:034.7 127.2	950.1 85.3	854.0 15.3	479.1 74.0	27.6 9.8	44.6 10.7	63 3 ; 11 <b>3</b>	8 D)	54	6.0	
AFRICA	2573.2	2725.3	2727.5	2550.7	2179.7	1874.9	126.9	140.1	170.3	424.4	353.3	235.9	
North Africa Morocco	43.9 43,9	47.4 47.4	<b>45.8</b> 45.8	<b>44.6</b> 44.6	44.1 44.1	39.8 39.9	6.8 6 8	8.2 8.2	9.6 8.6	9.9 9.9	9.9 8.9	<b>9.4</b> 9.4	
Other Africa	2529.0	2677.9	2681.7	2506.1	21 35.6	1835.1	120.1	131.9	161.7	414.5	343.4	226.5 211.0	
Gabon	i 2290.3	2381 9	2397.7	2211.1	1815.6	1551.1	1123	123 2 B 7	11.7	39 <b>5.</b> 0    19.5	32 <b>4</b> .0	15.5	
Ghana	239.0	296.0	294,03	295.0	320.0	264.0	7.8			ĺ			
ASIA	230.8	314.0	337.9	336.0	268.3	213.6	6.0	10.5	14.3	26.8	15.3	10.9	
West Asia Turkey	-	-	10.3 10.3	11.7 11.7	-	8.5 8.5	•	•	0.7 0.7	0.6 0.6	-	0.3 0.3	
South and	ŧ			ł							15.3	10.6	
South-East Asia	230.8	314.0	327.6	324.3	268.3	205.1	6.0	10.5	13.6 12.0	26.01 24.31	15.3	10.3	
India	225 8	3077			265 3	200.0 5 1	5.8 0.2	0.2	0.7	161	0.1	0.3	
Indonesia	5.0	5.7° 0.6	16.0°		3.0		•	3. î	0.9	0 1		-	
Thatland	i	0.0					ŀ			0,2	3.2	_	
EUROPE Yugoslavia (former)	1.1 1.3	-	0.9 0.9	5.1 5 1	5.01 5.0	-	-	- [	250.0 250.0	0 2	0.2		
Mainly commodify exporting countries	239.0	296.0	284.0	295.0	320.0	284.D	7.8 ! 	8.7	11.7	19.5	19.4)	15.5	
COUNTRIES				JAR A	174.0	125.0	29.8	35.0	30.1;	17.5	17.2	14.5	
IN EASTERN EUROPE	737.1	1002.6	910.9	138.0 3 0	174.V 60	120.0	0.4	0.6	0.7	0.6,	0.5	•	
Bulgaria	11. ( )	12.2 8.4		20	2.0	-	11	10	0 2	0.2	0 2	-	
Kungary USSR (former)	12 0 714.0	982.0	895 D	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	19.5	5.0	2.1	2. 7 2. 2	1.6 1.5;	1. <b>8</b> 1.8	1.5 1.5	0.7 0.7	
China	! 412	40,2	28.8	1 28 0	19.5	50	2.1	2.21	1 19,			04. 1	

3. World imports of manganese ore, 1987-1992

•				lactual weigh 00 MT)	it)					alu <b>e</b> an US <b>i</b> l		
Region country or sres	1987	1988	1989	1990	1991	1992	1997	1988	1989	1990	1991	1992
ORLD	8020.0	9783.0	9933.9	7901.2	6944.D	5769.3	453.1	855.5	851.7	1002.1	1949.8	771.
EVELOPED MARKET CONOMY COUNTRIES	4883,0	6423,8	6252.9	5193.6	4941.5	3860.8	294.3	459.0	812.1	691.7	670.7	544
MERICA	471.B	653.9	748.9	448.6	235.9	140.3	30.7	59.5	72.8	53.1	43. i	35
Canada Inded States	173 0 298 B	220 0 433.0	161 0 587.8	140.01 308.61	16,0 220 9	15 0 125 3	#1.4 #9.3	15.4 35.1	16 4 56 4	15.2 47.3	41.4	33 33
UROPE	2004.0	3835.9	3552.2	3089.0	2433.6	2661.8	175.2	278.7	381.4	421.5	373.6	360
EEC	2162.0	2975 4	2795.9	23 <b>43</b> 9 i	1898.3	2004.9	/38.€	218.3	291.7	327 5	298 2	27
Belgrum-Luxembourg	75.5	232 7	308.5	164 3,	136.7	(49.6)	.5 0 }	17.3	35.0	27.3	25.1	2
9enmark	0.5	0.4	0.5	0.23	0.1	0.2	0.2	011	0.1° 93.5	0.1 121 3	0 1! •24 3	12
rance	702 5	1485.5	851 4	754.7	720, 1 252 5	903 7 { 285 8 {	46 3	108.9 35.9	57.81 57.81	51.2	27.5	4
Sermany Greece	378.6	514.4	546.4	368 A - 22 7	252.5	283.61	22 C	6.8	9.1	3.1	jal	
refand	263	27.5	37.0	22 7	32 5	33.61	16	1 3	98	: 91	2.5	
rerand Jaly	4527	264 3	390 1	348 5	240.8	85	22 2	15 1	1991	33 €	25 B	1
letherlands	125 0	53.4	58.0	71.21	65.8	50	15.4	97	19.3	14.3	- 1 8	1
ortugal	78 1	2.0	2.2	10.31	12 0	2.8	1.3	0.2	9.3	- 11	1.5	
ipain	2023	99.6	329 3	262.4	56 2	74 3 }	F1.2	14.4	33.4	37 5	99)	
Inited Kingdom	120.5	95.5	275.5	319.3	355.3	395 61	13.4	:5 1 57 <b>4</b>	22.5 59.7	36 G 93.9	55 5 [ 75 4]	3
EFTA	642.0	860 5	755 3	745.1	535.3	657.0	36.6	37 4 8.1	0.2	93.9	0.2	2
wstna 3-1	0.5	0.3	0.5 #6.8	0.81 17.81	0.5 8.5	0,1 28,6	0.2 0.5	0.2	15	19:	1 11	
inland lorway	628.2	947.2	724.8	726.3	498 8	619.4	35.2	56 1	69 B	91.5	7 21	8
weden	11.1	11.7	13.4	0.2	27.5	8.9	0.7	1.0	- 4	0.1	? ⊕i	
OUTH AFRICA	3.9	5.4	6.8	R. 6	7.0	4.0	1.7	2.0	: 1,8:	1.9	1.6	
SIA	1580.7	1923.5	1939.0	1648.7	1883.5	1054.4	83.5	127.9	175.6	204.9	252.3	14
sraet		-	-	-	1863 B	1054,4	83.9	0 3 i 127 6 i	0.11 175.5	204.9	252 3	14
apan	1580,7	1923.5	1939 0	1646.7	1000 6	1004,4	83.57	121 01	1773		į	
CEANIA	2.6	8.0	8.1	0.7	0.4	0.2	2.8	1.9	0.5	0.3	0.1	
Australle	2.5	5.9	6.0	0.6	0.3	0.1	2.7	1 8 (	0.5	e 3	וַן מ	
lew Zealand	0.11	0.11	0.1	0,1	0 1	0.1	9.11	0.11			- !	
	1	~				1		i	,		*	
	1041.†	1128.9	1194,1	1028.4	1033.1	680.5	91.5	102.8	123.8	148.4	154.7	10-
ND TERRITORIES					1033.1	680.6 208.9	91.5 27.8	102.8	32.2	38.4	30.9	2
ND TERRITORIES IMERICA	1041.†	1128.9	1194,1	1028.4	263.0 73.8	208.9 61.1	27.8 3.4	30.9 5 9 t	32.2 5.4		30.9 7.9	2
ND TERRITORIES IMERICA Irgentina Brazil	1041.1 333.3 60.4 1.5	1128.9 322.9 78.4 1.3	1194,1 335,4 66 3 8 9	1028.4 279.8	263.0	206.9	27.8	30.9	32.2	38.4	30.9	2
ND TERRITORIES (MERICA Irgentina Jorazii Joide	1041.1 333.3 60.4 1.5 6.1	1128.9 322.9 78.4 1.3 9.4	1194,1 335,4 66 3 6 9 22,1	1028.4 279.8 97.3 3.0	263.0 73.8 9.3	208.9 61.1 0.1	27,8 3.4 2.9	30.9 5.9 2.7	12,2 5,4 1.5	38.4 41.6 -	30.9 7.9 6.1	2
ND TERRITORIES .MERICA rgentina razil hile olombia	1041.1 333.3 60.4 1.5 6.1 12.6	1128,9 322,9 78,4 1,3 9,4 9,8	1194,1 335,4 66,3 6,9 22,1 3,4	1028.4 279.8 97.3 3.0 - 7.8	263.0 73.8	208.9 61.1 0.1 - 13.5	27,8 3.4 2.9	30.9 5 9 t	32.2 5.4	38.4	30.9 7.9	
ND TERRITORIES  IMERICA Ingentina Istazil Ista	1041.1 333.3 60.4 1.5 6.1 12.6 0.2	1128.9 322.9 78.4 1.3 9.4 9.8 0.2	1194,1 335,4 66 3 6 9 22,1	1028.4 279.8 97.3 3.0	263.0 73.8 9.3	208.9 61.1 0.1	27,8 34 2.9 - 2.2 0.2	30.9 5 9: 2.7! - 2.0!	32.2 5.4 1.5 1.2	38.4 *  6 -   9	30.9 7.9 6.1	2
ND TERRITORIES  IMERICA Irgentina Brazil Gale Colombia Dominican Republic Sustemala	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0	1128.9 322.9 78.4 1.3 9.4 9.8 0.2 0.5	1194,1 335,4 66 3 8 9 22 ; 3,4	1028.4 279.8 97.3 3.0 - 7.8	263.0 73.8 9.3	208.9 61.1 0.1 - 13.5	27,8 3.4 2.9	30.9 5.9 2.7	12,2 5,4 1.5	38.4 *  6 -   9	30.9 7.9 6.1	2
EVELOPINO COUNTRIES ND TERRITORIES LMERICA Argentina Strazil Chile Colombia Dominican Republic Sustemala amaica Aexico	1041.1 333.3 60.4 1.5 6.1 12.6 0.2	1128.9 322.9 78.4 1.3 9.4 9.8 0.2	1194,1 335,4 66,3 6,9 22,1 3,4	1028.4 279.8 97.3 3.0 - 7.8	263.0 73.8 9.3	208.9 61.1 0.1 - 13.5	27,8 34 2.9 - 2.2 0.2 0.2	30.9 5 9: 2.7! - 2.0! 0 2	32,2 5,4! 1.5 1.2:	38.4 41.6 1.9	30.9 7.9 0.1 2.4	2
ND TERRITORIES  IMERICA Irgentina Brazil	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1	1128.9 322.9 78.4 1.0 9.4 9.8 0.2 0.5 0.2 140.3	1194,1 335,4 66 3 8 9 22, 1 3,4 - 0,3 187,6 0,5	1028.4 279.8 97.9 3.0 - 7.8 - - 137.5 0.5	263.0 73.8 0.3 - 9.4 - - - - - 0.7	208.9 61.1 0.1 - 13.5 - -	27,8 3 4 2.9 - 2.2 0.2 0.1 16.1	30.9 5 9: 2.7! 2.0! 0 2: 0 2:	32,2 5,4! 1.5; 1.2; 0.2; 0.3;	38.4 416 19 01	30.9 70 0 f 2 d - - - 14 3 0 2	2
ND TERRITORIES  IMERICA Irgentina Strazil  Chile Colombia Confinican Republic Suatemala amaica  Rexido Paragulay Peru	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4	1128.9 322.9 78.4 1.0 9.4 9.8 0.2 0.5 0.2 140.3 -	1194,1 335,4 66 3 8 9 22.1 3,4 - 0.3 167.6 0.5	1028.4 279.8 97.9 3.0 - 7.8 - -	263.0 73.8 0.3 - 9.4 - - - - - -	208.9 61.1 0.1 13.5 - - 71.5 2.8	27.8 3.4 2.9 2.2 0.2 0.1 15.1	30.9 5 9: 2.7! 2.0: 0 2: 0 2: 15 0: 0 2:	32,2 5,4! 1.5; 1.2; 0.2; 0.3;	38.4 41.6 1.9	30.9 7.9 0.1 2.4	2
ND TERRITORIES  IMERICA Irgentina Irazil Ira	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7	1128.9 322.9 78.4 1.0 9.4 9.8 0.2 0.5 0.2 140.3 - 0.6 1.8	1194,1 935,4 66 3 8 9 22,1 3,4 - 0,3 187,6 0,5 0,5	1028.4 279.8 97.9 3.0 - 7.8 - - - 137.5 0.5	269.0 73.8 9.3 - 9.4 - - - - - - - - - - 7 1 7 0.3	208.9 61.1 0.1 13.5 - - 71.5 2.8	27,8 34 2.9 - 2.2 0.2 0.1 16.1 - 0.4	30.9 5 91 2.7! 2.0! 0 2! 15 0! 0 2! 0 2!	32.2 5.4! 1.5 1.2: 0.2: 0.3: 17.2.	38.4 11.6 1.9 9.1 18.2	30.9 79 0 f 2 4 - - 14 3 0 2	2
ND TERRITORIES  MERICA rgentina razil hile clombia comfinican Republic lustemala anaica fexico araguay eru rinidad and Tobago enezuela	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 7 2.0 62.3	1128.9 322.9 78.4 1.3 9.4 9.8 0.2 0.5 0.2 140.3 - 0.6 1.8 90.4	1194.1 335.4 66.9 22.1 3.4 - 0.3 187.6 0.5 0.6 3.0 64.7	1028.4 279.8 97.3 3.0 - 7.8 - - 137.5 0.5 (19	263.0 73.8 9.3 - 9.4 - - 0 7 1 7 9.3 - - 98.8	208.9 61.1 0.1 - 13.5 - - 71.5 2.8 - - 57.9	27,8 34 2.9 - 2.2 0.2 0.1 16.1 - 0.4 0.2 3.1	30.9 59: 2.7: - 2.0: 0.2: 15.0: - 0.2: 0.2: 0.2: 0.2: 0.2: 0.2: 0.2: 0.2:	32.2 5.4! 1.5! 1.2! 0.2! 0.3! (7.2)	38.4 11.6 1.9 9.1 18.2 9.7	30.9 70 0 f 2 d - - - 14 3 0 2	2
ND TERRITORIES  IMERICA Ingentina Istazil Indel	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7	1128.8 322.9 78.4 1.3 9.4 9.8 0.2 0.5 0.2 140.3 - 0.6 1.8 80.4	f194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 187.6 0.5 0.6 3.0 64.7 8.6	1028.4 279.8 97.3 3.0	263.0 73.8 9.3 - 9.4 - - - 0 7 1 7 0.3 - 98.8 7.5	208.9 61.1 0.1 - 13.5 - - 71.5 2.8 - 57.9	27.8 34 29 - 22 02 02 01 15.1 04 02 3.1	30.9 59: 2.7: 2.0: 0.2: 15.0: 0.2: 0.2: 4.5: 3.6:	32.2 5.4! 5.4! 1.5! 0.2: 0.3: 7.2. 	38.4 416 19 - - - - - - - - - - - - - - - - - -	30.9 79 01 24 - 14 3 02 01	2
ND TERRITORIES  MERICA rgentina Irazil  Anile  Joinmois	1041.† 393.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 0.7 2.0 62.3	1128.9 322.9 78.4 1.3 9.4 9.8 0.2 0.5 0.2 140.3 - 0.6 1.8 90.4	1194.1 335.4 66.9 22.1 3.4 - 0.3 187.6 0.5 0.6 3.0 64.7	1028.4 279.8 97.3 3.0 - 7.8 - - 137.5 0.5 (19	263.0 73.8 9.3 - 9.4 - - 0 7 1 7 9.3 - - 98.8	208.9 61.1 0.1 - 13.5 - - 71.5 2.8 - - 57.9	27,8 34 2.9 - 2.2 0.2 0.1 16.1 - 0.4 0.2 3.1	30.9 59: 2.7: - 2.0: 0.2: 15.0: - 0.2: 0.2: 0.2: 0.2: 0.2: 0.2: 0.2: 0.2:	32.2 5.4! 1.5! 1.2! 0.2! 0.3! (7.2)	38.4 11.6 1.9 9.1 18.2 9.7	30.9 7.9 0 f 2 d - 14 3 0 2 0 1	2
MERICA rgentina razil hide ciomoia cominican Republic uatemata amaica sexico sexico seraguay eru rinidad and Tobago enezuela FRICA North Africa	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7	1128.8 322.9 78.4 1.3 9.4 9.8 0.2 0.5 0.2 140.3 - 0.8 80.4 8.2	1194.1 335.4 66.3 6.9 22.1 7.4 - 0.3 187.6 0.5 0.5 0.5 0.5 0.5 0.5	1028.4 279.8 97.3 3.0 - 7.8 - 137.5 0.5 (.9 - 31.6 7.2	263.0 73.8 9.3 - 9.4 - - 90.7 1.7 0.3 - - 98.8 7.5	206.9 61.1 0.1 - 13.5 - 71.5 2.8 - 57.9 15.3	27.8 3.4 2.9 - 2.2 0.2 0.1 16.1 - 0.4 0.2 3.1 3.5	30.9 5.9 2.7	32.2 5.4 1.5 1.2 0.2 0.3 37.2	38.4 416 - 19 - 18.2 - 0.7 - 3.9 3.1 0.5 0.4	30.9 7.9 0 f 2 d - 14 3 0 2 0 1	2
MERICA rgentina razil hite olomoia confincan Republic ustemala emaica lexico araguay eru rinidad and Tobago enezuela FRICA North Africa aypt udan	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7 1.1	1128.8 322.9 78.4 1.3 9.8 0.2 0.2 140.3 - 0.6 1.9 80.4 8.2	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 187.6 0.5 0.6 3.0 64.7 8.6	1028.4 279.8 97.3 3.0 - 7.8 - 137.5 0.5 (.9 - 31.6 7.2	263.0 73.8 9.3 - 9.4 - - 90.7 1.7 0.3 - - 98.8 7.5	208.9 5(1.1 0.1 - 13.5 - - 71.5 2.8 - - 57.9 15.3 12.3	27.8 34 2.9 - 2.2 0.2 0.1 16.1 - 0.4 0.2 3.1 3.5 0.7	30.9 5 9 2.7 - 2.0 0 2 0 2 15 0 0 2 0 2 4 5 3.6 0.7 0.7	12,2 2 5,4 1 1 5 1 1 2 1	38.4 416 - 19 - 01 - 16.2 - 0.7 - 3.9 - 0.5 0.5 0.4	30.9 0 f 2 4 - 14 3 0 2 0 1 5 9 4.3	z
MERICA rgentina razil Aile olombia ooninican Republic iustemala amaica fexico araguay eru rinidad and Tobago enezuela FRICA North Africa gypt udan unisia	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 7.7 2.0 62.3 7.7 1.† 0.4 0.0 9.2	1128.8 322.9 78.4 1.3 9.8 0.2 0.2 0.2 140.3 - 0.6 1.8 80.4 8.2 1.2 0.3	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 187.6 0.5 0.8 3.0 64.7 8.6	1028.4 279.8 97.3 3.0	283.0 73.8 0.3 9.4	208.9 51.1 0.1 13.5 71.5 2.8 57.9 15.3 12.3	27.8 34 2.9 - 2.2 0.2 0.1 18.1 - 0.4 0.2 3.1 3.5 0.7	30.9 5 9 2.7 2.0 0 2 0 2 15 0 0 - 0 2 4 5 3.6 0.7 0.7	32.2 ; 3.4 ; 1.5 ;	38.4 416 - 19 - 18.2 - 0.7 - 3.9 3.1 0.5 0.4	30.9 7.9 0 f 2 d - 14 3 0 2 0 1	2
ND TERRITORIES  MERICA rigentina Itazil Ante Iolomoia Ioonimican Republic Iuatemala amaica fexico araguay eru Iniidad and Tobago fenezuela IFRICA North Africa gypt Iudinisa Other Africa	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 2.0 62.3 7.7 1.1	1128.8 322.9 78.4 1.3 9.4 9.8 0.5 0.2 140.3 140.3 140.3 8.2 1.2 0.4	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.5 0.5 0.5 0.6 4.7 8.6 1.2 0.5	1028.4 279.8 97.9 3.0 7.8 137.5 0.5 (.9 31.6 7.2	263.0 73.8 9.3 9.4	208.9 51.1 0.1 13.5 71.5 2.8 57.9 15.3 12.3 12.2	27.8 34 29 - 22 02 02 01 161 - 04 021 3.1 3.5 0.7 0.4	30.9 5 9 2.7! - 2.01 0 2 15 0) - 0 2 4 5 3.6 0.7 0 4 0 2 0.7	12.2	38.4 (16) - 19 - 01 - 07 - 0.5 0.5 0.4 - 0.1	30.9 7.0 0 f 2 d - 14.3 0.2 0 t - 5.9 4.3 0.9 0.8 - 0.1	2
MERICA rgentina razil hile ciomoia cominican Republic iustemala amaica lexuco araguay eru rinidad and Tobago enezuela FRICA North Africa gypt udan unisia Other Africa ameroon	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 0.7 2.0 62.3 7.7 1.1 0.4 0.3	1128.8 322.9 78.4 1.3 9.8 0.2 0.5 0.2 140.3 0.6 1.8 90.4 8.2 1.2 0.4 0.5 0.3 7.0	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 187.6 0.5 0.8 3.0 64.7 8.6 1.2 0.5 0.5 0.5	1028.4 279.8 97.3 3.0 7.8 - 137.5 0.5 1.9 - 31.6 7.2 1.1 0.9	263.0 73.8 0.3 - 9.4 - - - - - - - - - - - - - - - - -	208.9 61.1 0.1 13.5	27.8 34 29 - 22 02 02 01 151 - 04 02 3.1 3.5 0.7 04 02 0.7	30.9 59 2.7! - 2.01 0 2 15 0) - 0 2 4 5 3.6 0 .7 0 4 0 2 0 2 0 2 0 2 1 5 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	12.2	38.4 (16) 19 - 19 - 18 2 - 0 7 - 3 9 3 1 0 5 0 1 0 4 0 1 2 8 1 D1 1 3	30.9 7.0 0.1 2.4 - 14.3 0.2 0.1 5.9 4.3 0.9 0.8 - 0.3 3.4 1.1	2
MERICA rgentina razil hite olombia ominican Republic ustemata amaica texico araguay eru rinidad and Tobago enezuela FRICA North Africa gypt udan unisia Other Africa ameroon enya	1041.† 333.3 60.4 1.5. 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7 1.f 0.4 0.3	1128.8 322.9 78.4 1.3 9.8 0.2 0.5 0.2 140.3 - 0.6 1.8 90.4 8.2 1.2 0.4 0.5 0.3 7.0 2.8	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 167.6 0.6 0.6 3.0 64.7 8.6 1.2 0.5 0.5 0.5	1028.4 279.8 97.3 3.0	263.0 73.8 0.3 - 9.4 - - - - - - - - - - - - - - - - -	208.9 51.1 0.1 13.5 71.5 2.8 77.5 15.3 12.3 12.2 0.1 13.5 71.5 2.8 71.5 2.8 71.5 2.8 71.5 2.8 71.5 2.8 71.5 2.8 71.5 2.8 71.5 2.8 71.5	27.8 3.4 2.9 - 2.2 0.2 0.1 15.1 - 0.4 0.2 3.1 3.5 0.7 0.4 0.2 0.2 0.1 0.2 0.3 0.4 0.2 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	30.9 59 2.7 2.0 0 2 0 2 15 0 0 2 0 2 4 5 1 0 7 0 4 0 2 0 2 0 2 1 0 2 1 0 2 1 0 2 1 1 0 0 4 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	32,2 5,4 1 5 5 1 2 5 5,4 1 5 5 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	38.4 (16) 19 - 19 - 18 2 - 0 7 - 3 9 3 1 0 5 0 1 0 4 - 0 1 2 8 1 D 1 1 D	30.9 7.0 0 f 2 d - 14.3 0.2 0 t - 5.9 4.3 0.9 0.8 - 0.1	z
ND TERRITORIES  MERICA regentina razell Ante comminican Republic comminican Republic comminican result reru rinidad and Tobago reru rinidad and Tobago renezuela IFRICA  North Africa gypt udan unista  Other Africa cameroon enya ligeria	1041.1 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 2.0 62.3 7.7 1.1 0.4 0.2 6.8 3.2 2.4	1128.8 322.9 78.4 10.3 9.4 9.8 0.5 0.2 140.3 1.9 8.2 1.2 0.4 0.5 0.3 7.0 2.8 2.8 2.9 2.9 3.9 4.9 3.9 4.9 5.8 6.2 6.2 6.3 6.3 7.4 6.2 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1028.4 279.8 97.9 3.0 7.8 -	283.0 73.8 0.3 9.4	208.9 \$1.1 0.1 	27.8 34 29 - 22 02 02 01 151 - 04 02 3.1 3.5 0.7 04 02 0.7	30.9 59 2.7! - 2.01 0 2 15 0) - 0 2 4 5 3.6 0 .7 0 4 0 2 0 2 0 2 0 2 1 5 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	12.2	38.4 (16) 19 - - - - - - - - - - - - - - - - - -	30.9 7.0 0.1 2.4 - - 14.3 0.2 0.1 5.9 .4.3 0.9 0.8 - 0.1 1.4 1.0 1.3 1.4 1.0	1
ND TERRITORIES  LIMERICA Argentina Intralia John John John John John John John John	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7 1.† 0.4 0.5 0.2 6.6 3.2 4 1.0	1128.8 322.9 78.4 1.3 9.8 0.2 0.2 140.3 - 0.6 1.9 80.4 0.5 0.3 7.0 2.8 3.2 1.0	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 167.6 0.5 0.6 3.0 64.7 8.6 1.2 0.5 0.5 0.5	1028.4 279.8 97.9 3.0 7.8 -	283.0 73.8 0.3 9.4	208.9 51.1 0.1 13.5 - 71.5 2.8 - 57.9 15.3 12.3 12.3 12.3 12.3 12.3	27.8 34 2.9 - 2.2 0.2 0.1 15.1 - 0.4 0.2 3.1 3.5 0.7 0.4 0.2 0.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	30.9 59 2.7 - 2.0 0 2 15 0 0 2 0 2 4 5 1 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	2,2   3,4   1.5   1.2	38.4 (16) 19 	30.9 7.0 0 f 2 d - 14.3 0.2 0.1	2
ND TERRITORIES  MERICA rigentina Irazil  Anie  Joiomota	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 0.7 2.0 62.3 7.7 1.f 0.4 0.0 6.6 3.2 2.4 1.0 611.9	1128.8 922.9 78.4 19.8 0.2 0.5 0.2 140.3 0.6 1.2 0.4 0.5 0.3 7.0 2.6 3.2 1.2 2.5 3.3 7.0 3.2 1.2 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3	1194.1 335.4 66.3 8.9 22.1 3.4 - 0.3 187.8 0.5 0.8 3.0 64.7 8.6 1.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1028.4 279.8 97.3 3.0	283.0 73.8 0.3 - 9.4 - - - - - - - - - - - - - - - - -	208.9 61.1 0.1 13.5	27.8 34 29 22 02 02 01 15.1 04 02 3.1 3.5 0.7 04 0.2 0.1 1.3 1.2 0.2 1.3	30.9 59 2.7! 2.00 0.2! 0.2! 0.2! 0.2! 0.4 0.7! 0.4 0.7 0.4 0.2 0.5 0.7 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	22,2' 5,4' 15; 12; 22; 0 3; 17 2; 7, 4, 2.8, 9, 2'; 0.5; 10; 10; 2.3; 10; 10; 2.3; 30,4' 55,8'	38.4 (16) 	30.9 7.0 0.1 2.4 - - 14.3 0.2 0.1 5.9 .4.3 0.9 0.8 - 0.1 1.4 1.0 1.3 1.4 1.0	2
ND TERRITORIES  MERICA regentina razell Ante commina Republic comminan Republic comminan result reru rinidad and Tobago reru rinidad and Tobago reruela i.FRICA  North Africa gypt udan unista  Other Africa cameroon enya ligeria SIA  Wost Asia an (Islamic Republic of)	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 - 0.7 2.0 62.3 7.7 1.† 0.4 0.5 0.2 6.6 3.2 2.4 1.0 611.9 28.7	1128.8 322.9 78.4 1.3 9.8 0.2 0.2 140.3 - 0.6 1.8 90.4 0.5 0.3 7.0 3.2 1.0 697.2 22.3	1194.1 335.4 66.3 6.9 22.1 3.4 - 0.3 167.6 0.6 0.5 0.8 3.0 64.7 8.6 1.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1028.4 279.8 97.9 3.0 - 7.8  137.5 0.5 1.9  137.5 0.5 1.9  2.5 2.1 2.5 2.6 1.0 645.5	283.0 73.8 0.3 9.4	208.9 51.1 0.1 -13.5 -71.5 2.8 -15.3 12.3 12.2 -011 3.0 2.0 1.0 455.4 5.5	27.8 34 29 - 22 02 02 02 01 151 - 04 02 3.1 3.5 0.7 04 0.2 0.1 3.5 3.5 3.5 5.4 4.0 11.6	30.9 59 2.7 - 2.0 0 2 15 0 0 2 0 2 4 5 3.6 0 7 0 4 0 2 0 2 0 5 1 0 1 0 1 6 0 3 5 9.7 9.2	12,2° 5,4° 15° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	38.4 116 19 - 182 - 07 - 3.1 0.5 0.5 0.4 - 0 1 2.8 - 0 1 - 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	30.9 7.0 0 f  2 d  14.3 0.2 0.1  5.9  43 0.9 0.8  1.1 1.0 1.3 1.04.0 5.0	1
MERICA rgentina razil hile olomoia ominican Republic uatemala amaica lexico araguay eru rinidad and Tobago enezuela FRICA North Africa gypt udan unisia Other Africa ameroon enya lgeria SSIA West Asia an (Islamic	1041.† 333.3 60.4 1.5 6.1 12.6 0.2 1.0 0.1 186.4 0.7 2.0 62.3 7.7 1.f 0.4 0.0 6.6 3.2 2.4 1.0 611.9	1128.8 922.9 78.4 19.8 0.2 0.5 0.2 140.3 0.6 1.2 0.4 0.5 0.3 7.0 2.6 3.2 1.2 2.5 3.3 7.0 3.2 1.2 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3	1194.1 335.4 66.3 8.9 22.1 3.4 - 0.3 187.8 0.5 0.8 3.0 64.7 8.6 1.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1028.4 279.8 97.3 3.0	283.0 73.8 0.3 - 9.4 - - - - - - - - - - - - - - - - -	208.9 61.1 0.1 13.5	27.8 34 29 22 02 02 01 15.1 04 02 3.1 3.5 0.7 04 0.2 0.1 1.3 1.2 0.2 1.3	30.9 59 2.7! 2.00 0.2! 0.2! 0.2! 0.2! 0.4 0.7! 0.4 0.7 0.4 0.2 0.5 0.7 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	22,2' 5,4' 15; 12; 22; 0 3; 17 2; 7, 4, 2.8, 9, 2'; 0.5; 10; 10; 2.3; 10; 10; 2.3; 30,4' 55,8'	38.4 (16) 	30.9 7.0 0 f 2 d - 14.3 0.2 0.1	2

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

				(actual weigh 100 MT)	e)		Value (Million US\$)							
Region country or area	19967	1999	1989	1990	1991	1992	*887	1988	1988	1980	1991	1992		
South and		1		ĺ										
South-East Asia	583.2	645.2	748.5	638.4	661.3	449.9	42.8	50.5	74.6	90.1	99.0	66.3		
Hong Kong	n 7	0.6	0.6	1.0	0.0	1.5	D. 1	0.1	0.1	0.2	0.1	0 :		
India	1.1	4.9	5.0	3.5	3 1	3.0	0.5	0.8	10	1.4	1.3	1		
Indonesia	2 0	17	14	2.8	2.7	3.6	9.8	0.5	0.4	0.6	0.7	i.		
Malaysia	12	0.9	1.0	ī.ŏ	1.2	10	0.5	0.5	0.5	0.3	0.4	n.		
Pakisten	27.7	25.11	11.8	0.5	29.7	o i l	1.2	1.11	0.7	0 1	2.2	-		
Philippines	3.6	3 2 1	3.2	20.2	15.0	4.5	1.4.	13	13	2.0	4.0	2.0		
Republic of Korea	369.4	386.6	503.3	397.8	438.01	394.7	18.9	23 7	43 7	49 0	61.91	54.		
Singapore	45,5	51.1	26.1	80.0	46.6	16 4	10.9	10.4	6.4	17.8	11,6	4.0		
SH Lanka	1.3	0.2	0.1	0.2	0.2	0.1	1.3	0.2	0.2					
Taiwan	131.7	170.9	196.0	141 41	125.0	25.0	7.2	11.9	20 3	18.5	16.9	3 (		
EUROPE	88.2	130.6	93.0	98.1	95.0	3.0	5.8	8.6	9.4	12.5	12.5	_		
Yugoslavia (former)	88.2	130.6	93.0	96 1	95.0	3.0	5.8	8.6	9.4	12.5	12.5	-		
Least developed	1 1													
countries	0.5	0.5	0.5	-	-	-	9.2	0. 2	0.2	-	-	-		
Mainly commodity					1	-	1	į		i	ļ			
exporting countries	7.9	10.8	23.4	0.5	1.7	2.8	9.7	0.8	0.7	0,1	0.2	0.1		
OUNTRIES	i	Ĩ		f							1			
N EASTERN EUROPE	1853.7	1893.4	2012.1	1277.2	958.4	542.8	51.3	69.8	67.5	105.7	28.8	54.7		
Bulgaria	65.0	46.7	19.8	18.0	18.0	1.8	2.5	2.0	0.8	0.8	0.8	9.5		
Czechoslovakia (former)	438 0	494.0	871.0	800 Q	400 a .	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	10	-	-		
Hungary	0.4	-	-		0,4	- 1	-	-	-	- 1	0.3	-		
Poland	682.3	693.2	572.0	105.2	130.0	91.0	10.3	11.0	12.2	13.4	FB 3	11.5		
Romania	212.0	205.0	205.3	224 01	132.0	100 0	6.5	10.5	14.5	23.8	1.5.8	12.0		
JSSR (former)	400.0	400.0	285 0	300.0	280 0	150 0	17.51	21.0	11.0	14.0	13.5	8.0		
OCIALIST COUNTRIES	1	1					İ		ŀ					
)F ASIA	265.2	336.9	474.8	402.0	611.0	685.1	18.0	23.9	48.3	56.3	118,4	67.6		
China	236.0	276.7	424.8	357.0	561.0	635.1	15.2	22.0	46.7	54.7	117.7	85.9		
Democratic People's	F 1			1	1						- 1			
Republic of Korea	29 2	80.2	50,0	45.0	50.01	50.0	0.8	1.9	1.8	1.6	1.7	1.7		

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

Region country of grea	1991	1992	1983	1984	1985	1988	1997	1988	1989	1990	1981	1992
WORLD	5729.4	5388.4	4988.9	4900_4	5045.5	5001.7	4954.8	5202.0	4639.9	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
	284.0	213.0	185.0	271.2	257.3	232.5	267.5	268.0	295.0	305.0	300.0	300.0
AMERICA Canada United States	109.0 175.0	105.0 i 108.0	107.0 79.0	116.0 155.2	118,0 139-3	126 D 106 5	165 0 102.5	161.0 105.0	195.0 110.0	185.0 120.0	190.0 120.0	180 0 120.0
EURÓPE	1184.9	1095.7	998.5	1210.3	1138.7	1031.7	978.2	1025.4	1098.3	1081.7	1099.0	11 <b>91.0</b> 971 0
EEC	951.5	892.4	774.5	925.1	871.0	836.4	784 2 90.0	793 5   95 0	897.6 95.0	868.4 90.0	899.0	100.0
Belgit;m-Luxembourg	90.0	900	90.0	95 0	90.0 334.0	87.0 273.6	295.8	281 0	320.0	290 0	300.0	320.0
France	312.0	332 0 219.0	275.0 <u>1</u> 151.5	329.0 260 4 i	187.8	222.31	219.5	225.0	250 0	Z50 U	250 0	270.0
Germany	233.0 71.8	73.4	62.0	50 5	67.3	48.0	19.5	27.2	28 7	30.6	32.0	33.0
Italy Portugal	65.0	27.0	33.0	30 0	29.0	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	60.0 175.0
United Kingdom	84.91	81.0	93.0	75.2	76.9	99.5	92.4	107 3	142.7	143.4 213.3	160.01 200.01	220.0
EFTA	233.4	200.3	224.01	285 21	257 7	195.3	192.0	231 91 231 91	290.7 200.7	213.3	200.0	220.0
Norway	233.4	203.3	224.0	285.2	287 7	1953	192.0				ĺ	
SOUTH AFRICA	441.7	366.1	188.6	236.9	331.3	337.2	315.1	446.9 378.4	403.2 i 394.1	403.6 452.4	259.9 511.9	245.0 418.7
ASTA Japan	568.0 568.0	540.0 540.0	390.0 390.0	485.0 485.0	441.7 441.7	359.0 359.0	332.3	378.4	394 [	452 4	511.9	4187
OCEANIA	67.6	54.7	49.0	74.4	69.0	61.0	51.0	58.0	80.0	80.0	75.0	130.0
Australia	67.5	54.7	49.0	74 1	69.0	61.0	51 <b>0</b>	58 0:	60.0	60.0	75,0	130.0
DEVELOPING COUNTRIES AND TERRITORIES	620.4	575.B	563.3	508.31	802.8	649.2	639.4	660.4	880.5	749,7	798.2	691.6
AMERICA	271.6	296.4	292.4	300.9	320.1	348.3	344.6	372,7	380.6	387.9	3 <b>44.</b> 3 24 0	360.6 25.0
Argentina	25.5	30.6	30.0	28.0	23.6	19.6	21.4	19.7	24 4 180 7	23 6 i 170.5	(69.1	155.4
Braz:I	108.0	120.7	115 2	108.5	134.8	164 1	155.3 6.6	180 B 6.9	7.5	7.3	4.0	49.0
Chile	53	3.0	5.4	4.8	6.5 153.7	6.2 158.4	161.3	165.5	168.0	1883	147.21	131 2
Mexico	131,3, 1.5 <b>i</b>	140.6 1.5	*40.3 1.5	160.1 1.5	155.7	1.8	- 101.01	50.5	- 1	-	-	-
Venezuela			1	1.9	1,9	8.0	8.5	2,6	1_0	1.0		
AFRICA	2.2	2.0	1.8	i,	l.					· ·		
Other Africa Zimbabwe	2.2 2.2	2.0 2.0	1.8 1.8	1.9† 1.9	1.9 1.9	<b>8.0</b> :	<b>8.5</b> 8.5	2.6 2.6	1.9  1.0	1.0	-	· ·
ASIA	295.5	235.4	227.1	238.2	245.0	253.6	249.3	240,0	285.0	328.8	333.9	331.0
South and	ĺ						248.3	240.0	265.0	328.6	333,9	331.0
South-East Asia	295.5	235.4	227.1	23 <b>8.2</b> 158.3	245.0 166.0	253.6 179.9	173.3	138 3	149.1	201.2	198.0	201.0
India	209.0 68 2	158.0 60.4	154.2 52.9	59.9	61.0	53.7	58.0	75 9	85.3	84 0	85.9	80.0
Republic of Korea Taiwan	17 B	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	-	,	- 1	- !	-	-	•	-	.	-	-
	į l		40.01	47.3	35.8	39.3	36.0	45.1	33.9	32.0	30.0	-
EUROPE Yugoslavia (former)	51.1 51.1	<b>42.0</b> 42.0	42.01 42.0	47.3	35.81	39 3	38.0	45.1	33. <b>9</b>	32.0	30.0	٠
Mainly commodity exporting countries	5.3	3.0	5.4	<b>4</b> . B	8_5	6.2	6.6	6.9	7.5	7.3	4.0	49.0
COUNTRIES	:					1035	1628.1	1621.9	962.8	964.9	695.0	620.0
IN EASTERN EUROPE	1966.R	2001.1	2076.5	1474.3 22.0	1584.7 30.0	1 <b>636.</b> 1 32.0	1626.1 31.0	31.0	310	30.0	30.0	20 0
Bulgaria	34.0	34 0 53.7	34 0i 82.5	63 O		57.6	59.2	60.9	63.5!	64.2	55.0	40.5
Czechoslovakia (former) Germany (former DR)	58 1 : 70 0	53.7 64.0		<b>6</b> 5 0		68.0	68.0	69 G	68.0	50.0		,
Poland	150 7	134.4	135.0	97.9	99.4	95.5	95.3	91.1	90 3	71.0	60 0	
Romania	70.0	75.0	80.0	87.0	80.9	82.0	810	70.0	8D 03	49.7 700.0	50.0 500.0	. 501 #501
USSR (former)	1584 0	1640.0	1700 0	[149.4	1250 0	1361.0	1293.6	1300 01	#5 <b>0</b> 0	100.0	200.0	-30 t
SOCIALIST COUNTRIES					ļ		1		امرا	356 A	765.0	850.0
OF ASIA	596.0	542.0	560.0			695.0	745.0	745.0	745.0 675.0	750.01 690.0	: /ms.u   695.0	780
China	526 0	472 0	490,0	490 0	550 Q	625 0	675.0	875.0	ezarvi	4000	000.0	
Democratic People's				ı	1		70.0	70,0	70.0	70 C	70.0	70 (

5. World exports of ferromanganese, 1987-1992

•			((	luantity (60 MT)						nius on USS)		
Region country or area;	1997	1988	999	1990	7991	1997	1987	1988	1989	990	1991	1992
WORLD	1140.9	1278.1	1141.5	1200.0	962.5	860.0	409.5	579.2	674.7	750.5	594.2	553.1
DEVELOPED MARKET ECONOMY COUNTRIES	735.9	839.9	791.3	747.7	650.5	596.8	288.8	406,2	518.9	527.2	433.1	412.5
AMERICA Canada United States	25.7 23.1 2.6	<b>29.7</b> 26 <b>6</b> 3 1	27.9 21.9 8.0	20.5 15.0 5.5	28.3 19.7 14.6	13.9 0.4 13.5	8.7 6.6 2.1	12.6 9.7 2.9	17.0 9.7 7.3	14,3 7.6 6.7	21.1 5.6 15.5	14.2 0.2 14 0
EUROPE	327.6	373.9	402.6	357.3	389.8	348.1	171.7	238.8	315.7	316.4	288.4	278.5
EEC Selgium-Luxemboyrg	150.31	168.5 24 3	233 2 45 A	193.1 22.6	244.7 34.7	197.6 9.0	84 7! B 2	176.2	176 9 25 A	165 4 14.7	177 9	127.5 4.2
France	21.1	319	21.6	25 7	57.7	57 7	196	30 2	28.2	31.9	49.0	95.3
Germany	66.4	80 7 j	95.1	78 4	56.0	38.0	35.6	52.1	77 4:	71.9	45.0	32 4
laly	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	12	9.1	3.2	0.1	0.3	0.5	0.6	0.1	1.4	1.0	0.4!	0.4
Portugal Spain	9.6	3.6	10	0.5	10.5	23.2	1.71	1.7	0.5	03	15 0	- 126
United Kingdom	13.1 14.0	14,3	24 2 38 2	20.4	16.5	22.2 ; 59.6 h	10.9 <i>1</i> 4.4	12.7 3.8	19.4 20.7	16 4 25 6	15.9 35.7	12.5 29.2
EFTA	177.31	205.4	169 4	174 2	145.7	150 5	87 0	120.6	138.8	150.0	1105	151.0
Norway	176 8 (	204.4	168 5	173.4	145.1	150.0	86.5	119.8	139.0	149 0	109 8	116.0
Sweden	D 5	0.9	0.8	0.7	9,5	0.5	0.4	0.7	0.7	0 9	0.6	35.0
Switzerland	- [	9.1	0 1	0.1	9.1	÷	•	0.1	0,1	Q 1	<b>Q</b> 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	98.0
Japan Japan	19.1 E9.1	12.8 12.8	15.1 15.1	5.6 5.6	5.0 5.0	8.4 6.4	9.6 9.6	9.1 î 9 †	11.7	<b>5.9</b> 1 5.91	<b>6.0</b> 6.0	8.2 8.2
OCEANIA Australia	47.5 47.5	34.3 34.3	28.7 28.7	<b>49.1</b> 43.1	24.9 24.9	48.4 46 4	10.7	9.9 9.9	11.6 11.6	19.6 19.6	11.1	15.6 15.6
•	''		•			7.4 7						
DEVELOPING COUNTRIES AND TERRITORIES	100.7	115.5	94.9	151.B	133,3	80.8	32.6	57.3	49.5	86.3	73.2	52.4
AMERICA	88.9	95.2	65.6	117.7	94.1	62.7	29.1	48.7	44.2	71.6	93.2	48.8
Argentina	-	- :	-	0.2	0.4	-	-	- !	- ;	0,1	0.3	a a
Brezil	49.5	45.9	31.0	65.7	61.2	47.3	13.4	17.7	15.4	34.5	32.1	23 g
Chile Mexico	0.6 38.8	9 S	0.2	6.2	0.15		0.2	0.2	0.2	0.2 36.8	30.7	24 0
Venezuela	38.8		34,4	51 <b>6</b>	32.4 t	15.4	15.5 -	30.8	28 6	36.8	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 Turkey	-	-	-	-	-	- 1	-	-	-	-	<b>0.3</b> 0.3	0.1 0.1
•		-	-	-	-	_	-	-	·		0,5	9.1
South and South-East Agia	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	19,6	19.7	15.0	0.3)	1.2	1.3	B 2	4.7	3.5
Philippines		~	۵.۵	-	4.2	0.3	,	- 1			-	•
Republic of Korea	-	-	2 2	14	-	-	-	-	1.3	0.9	-	-
Singapore Taiwan	0.6 0.1	1.7	5.6	2.9	6.3 j	2.6	0.1	-		-	-	· =
EUROPE Yugoslavia (former)	9.5 9.5	15.2 15.2	7.81 7.9 j	10.2	<b>9.</b> 0	-	3.2 3.2	7.41 7.41	2.7 2.7	5.8 5.6	5.0 5.0	-
Mainly commodity		4.4		14.6	0.4	}	- 2	' ']		3.4	٠.٠	
exporting countries	0.6	0.5	0.2	0.2	0.1	-	0.2	0.2	0.2	6.2	- 1	-
COUNTRIES IN EASTERN EUROPE	291_8	265.0	245.2	230.0	105.0	103.0	88.5	96.7	97.0	100.2	52.5	49.4
Butgaria Czechoslovakia (former)	1.9 18.9	أجرا	- (E n	10.0	- 5.0	301	0.3 6.7	5.0	5.0	5.2	2.5	1.4
USSR (former)	274.0	15 0 2 <b>5</b> 0 0	(5.2 230.0	220.0	100.0	100.0	79.5	91,7	92.0	95.0	50,0	48.0
SOCIALIST COUNTRIES	10.5		i	7h C	70.7			40.0		20.01	35.4	38.8
OF ASIA China	12.5 12.5	55.8 55.8	20,2 20,2	70.5 70.5	73. <b>7</b> 1 73.71	79.6 79.6	3.6 3.8	19.0) 19.0)	9.3 9.3	3 <b>6.8</b>	35.4	39.6 39.6
were red	(2.0)	JC.8	£U.£	r 123	1311	/37.0	3.0	120	F. 3	20.0	50	

6. World imports of ferromanganese, 1987-1992

<b>.</b>			Q 10	uentry (100 IAT)		}			Va (Millio	lue n USS)		
Region country of sever	1997	1998	1989	1090	1994	1992	1987	1988	1383	.890	1991	1992
WORLD	1243.0	1452.2	1290.5	1223.9	1072.7	1002.8	489.4	704.5	863.2.	879.9	753.3	654.6
DEVELOPED MARKET ECONOMY COUNTRIES	821.2	1037.2	905.8	870.5	873.6	783.3	330.7	519.1	642.3	678.0	593.9	517,0
AMERICA	355.4	503.0	380.3	327.1	298.1	208.2	139.6	248.9	297.6	274.2	235.1	210.2
Canada United States	39.6(	35.1 467.9	44 B 335 5	29 3 297.8	46.1 250.0	49 9 236.3	18 2¦ 121 47	22 4 226 4	40.8 256.8	27 0 i 247 2	40 <b>8</b> 194 3	36.9 173.3
EUROPE	433.2	489.6	495.9	492.8	494.4	458.3	180.4	256.8	329.4	377.07	333.1	284.9
66C Belgium-Luxembourg Denmark France Germany Greece 'retand	377 4 59 3 1 3 59 4 98 2 3.7 0 2	432.7 84.2 1.5 53.3 109.6 4.0	427 9 50.9 2.4 86.5 99.0 6.5	425.8 47.5 2.5 83.5 (26.9) 5.0(	#32.4 64.4 2.51 78.75 130.9 4.3	402.6 53 6 2 5 44.0 130 2 2 9	757.1 23.4 0.6 25.9 38.0	220.5 30 3 0 7 35 6 53 4; 2 1	281.7 37.2 1.4 58.6 62.1 4.3	324 2) 36 21 1 7] 69 9 98 0 3 7	290 6 39 1 16 83.1 81 9 2 8	247.7 32 0 1 4 35 9 73 6 1 8
italy Netherlands Portugal Spain United Krigdom EFTA Austria Finland Norway Sweden Switzerland	89.4 14.3: 0.5: 14.1: 37.0: 55.8 18.8: 7.9: 3.1 29.0:	88.0 18.9 4.7 9.1 87.9 57.5 23.9 5.9 2.0 31.1	90 9 16 3 5 8 6 5 53.1 74 0 23 9 8.8 9.7 27.0 4.6	78.2 17.6 5.9 13.9 45.7 67.0 10.8 37. 24.9 4.5 4.5 7. 10.8 3.7 24.9	77 9 17.2 5.3 19.5 31.7 62.0 20.0 8 8 9.5 18.9	91.5 18.4 2.0 22.3 25.2 55.7 20.0 5.4 6.2 20.3 3.8	0.1 26.5 5.8 0.3; 5.7 19.8 23.3 8.2 3.4 0.6	43 2 9 2 2 4 3 8 39.8 36 7 13.0 4 5 7 2.5	56 4 10 7 6 5 5 1 44 4 47 7 48,7 1 6 5 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	54 1 13 0 4 1 9 9 43.6: 52 8 18.6 3 4 19.9 4.3	44 5 11 4 3 2 11 4 31.5 42 5 16 9 5 9 3.5 14 5	47 7 11 9 1.9 11 5 31 0 37 2 15 5 3 7 2 3 13 1
SOUTH AFRICA	9.1	0,1	0.1	9.1	_	3.61	0.1	2.5	,	0.1	4.0	_ ·
ASIA Israel Japan	28.0 0.6 27.4	28.1 0.7 27.4	22,8 1.0 21.8	44.4 1 1 43.3	33.6 10 32.6	26.5 1 0 25.5	7.7 0.5 7.2	9.2 9.7 9.5	9.9 1.2 9.7	19.6 1.2 18.3	f8.7 1.0 17.7	13.4 1 0 12.4
OCEANIA Australia New Zealand	4.5 3.9 0.6	6.4 4 9 1 5	6.7 5.3 1.4	8.1 4.0 2.1	9.5 7.5 2.0	12.3 9.9 2.4	2.9 2.5 0.4	4.3 3.6 0.7	5.4 4.3 1.1	5.1 3 4 1 7	7.0 5.3 1.7	8.5 6.9 1.6
DEVELOPING COUNTRIES AND TERRITORIES	194.0	207.6	211.5	214.6	200.2	190.3	76,6	105.4	149.6	*47.7	139.0.	122.5
AMERICA Argentina Brazil Chite Colombia Dominican Republic Ecuador Mexico Paraguay Peru Trinidad and Tobago Uruguay Venezueta	56.1 2.9 - 0.4 8.6 0.4 0.3 0.1 1.9 0.2 61.0	59.7 3.9 - 0.3 7.2 0.3 0.4 0.7 0.4 1.8 0.2 0.6 37.9	46-1 2.4 0.1 3.0 5.9 0.2 0.3 0.4 0.2 2.3 7.1 0.9 30.4	37.8 2.1 50 02 03 0.3 0.5 2.0 0.1 0.6 26.8	35.0 10.7 0.3 3.7 0.1 0.2 0.6 1.1 0.6 0.2 0.5 16.0	22.3 19 38 0,3 0,1 0,1 9,1 1,5 0,5	18.7 211 03. 35. 01: 01: 01: 01: 11:0	23.8 2.5 0.4 3.4 0.1 0.3 0.5 0.5 0.5 0.7 0.4 1.5 0	90.8, 2.3 0.1 2.5; 4.1; 0.1; 0.4; 0.2; 0.6; 0.5 0.8 18.0	27.3 2 2 0.2 2 7 0.2 0 3 0 4 9 3 1 5 1 5 1 6 9	24.7: 1 2  7 2  9 6  2 8  -   9 5  9 6  9 5! 9 6  9 5! 9 7	17.9 1 9 2 1 0 5 2 6 0 4 6 9 9
AFRICA	21.6	23.4	15.8	23.8	29.8	18.1	8.9	13.5	10.8	15.1	19,7	10.3
North Africa Algeria Egypi Morocco Tunisia	18.7 2.2 18.4 0.1	19.9 2.3 11.9 0.2 0.6	1 [.7] 3.6 9.0 0.1	19.0 0.5 17.8 0.2 0.5	26.9 0 2: 28 3: 0 2; 0 2;	15.4 0 2 15.5 0.2 0.5	7.6 1.1 6.4 0.1	11.8 6.4 4.9 0.15 0.4)	8.1 2.7 5.3 0.1 -	12.1 0.7 (0.9 0.2) 0.3:	18.2 0.7 17.2 0.2 0.1	9.3 0.7 8 1 0.2 0.3
Other Africa Kenya Nigeria Zimbabwe	2.9 0 3 2.5 0.1	3.5 0.3 3.0 0.2	4.1 0.3 3.5 0.3	4.8 0.3 4.0 0.5	2.7 0.1 2.0 0.6	1.7 0.1 1.0 0.6	1.2 0.1) 1 1	1.7 0.2 1.3	2.7 0 2 2 5	4.0, 0.4, 3.2( 0.4)	1.5 1.7 0.3	1.0 - 0.7 0.3
ASIA	115.2	128.9	146.6	146.3	130.6	149.9	47.5	85.9	103.5	99.3	90.6	94.4
West Asia Iran (Islamic Republic of) Iraq Qatar	1.0 0.1 2.0	45,1 1 0 0 1 2.0	58.5 1.0 0.1 2.0	1.0	41.6 (.0 - 7.0	50.7 1.0 - 7.0	0 2	21.5	39.1 06 	25.3 0.7 - 1.3	25.0 e s 5 o	28.7 05 48

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

•				50 M L) Tauqida			Value (MHIIon US\$)							
Region country or srea	1987	1988	1989	1950	1991	1992	1987	1983	1929	1990	1951	1992		
di Arabia	<u> </u>		0.3	0.3	0.5	0.5			0.3	) 0.3	0.4+	0.4		
or Arabi an Arab	-	-	V 3	9.3	0.5	0.8	-	-	v.s.	V.51	V.T]			
public	5.0	6.0	4.0	3.0	3.0	20	1.5	2.0	3.5	3.0	2.5	1.7		
(e)	41.7	36.0	51.1	32.0	30 1	40 2	14.3	17.9	33.5	20,0	16.9	21.2		
outh and					-	\$								
outh-East Asia	65.4	83.8	88.1	108.0	89.0	99.2	30.4	44.4	64.4	73.0	85,3	65.7		
gladesh	0.3	- 1					0.3	-		7.0	7.3	3.0		
g Kang	2.4	87)	8.9	12.2	14.1	5.7	0.2	4 2 0 2	4.2	0.3	7.3 <b>0</b> 1	0.1		
a .	0.2	0.35	21.6	0.2	0.1 17.5	0.2 15.6	5 1	3.9	12.0	11.4	10.9	9.5		
nesia	13 7 5 2	6 8 <del>1</del> 7 2 5	21.60 7.6	17.7† 15.91	9.0	7.5	⊃ '! 501	106	12.1	14.4	14.8	12.0		
aysia istan	12.4	11 31	12.2	21.3	8.3	8 2	481	4.5	9 1	12 2	5.2	4.6		
ippines	2.3	3 9	4.0	2.5	23	28	121	2.2	2.4	1.7	1.5	jě		
ublic of Korea	44	3 71	4.3	7.9	9 1	26.6	2 6	2.6	5.1	8.2	7.6	16.6		
Japone	2.0	1 2	3.9	2.4	3 1	3 2	0.8	0.6	2 4	1.5	18	1.7		
yan Yan	189	23 9 :	18.9	21.1	20.0	20.0	7.5	11.7	12.6	19.1	12.0	11.7		
tand	3.6	6.6	<b>6</b> .7	6.8	5.5	9.4	1 A	39	4.7	5.2	4 1	5.6		
ОРЕ	1.1	1.6	3.0	6.9	5.0	-	1.6	2.1	4.5	4.0	4.0	-		
oslavia (former)	1_1	16	3.0	6.9	5.0	•	1.6	2 1	4.5	6.0	4,0	•		
st developed ntries	0.3	-	-	-	-	-	0.3	-	-	=·	=	-		
niy commedity orting countries	0.9	1.0	3.4	0.7	1.5	1.0	0.4	0.7	2.8	0,7	1.1	1.3		
NTRIES								Ì		ļ				
ASTERN EUROPE	220.3	205.4	170.8	137.3	37.4	27.6	79.2	79.3	58.5	55.2	19.4	14.0		
anta	1.0	1.0	9.8	0.8	0.7	0.3	0.5	0.6	0.4	0.4	0.4	0.1		
aria	4.0	3.0	9.0	4.0	3.0	3.0	1.4	1 3	2.2	1.4	10	1.5		
choslovakia (former)	35.0	15.0	6.5	43	4.0	2.0	14.0	7 01	5.4	3.7	3.4	1.5		
nany (former DR)	73.0	75 0	60.0	35 0			29.0	30.0	27.0	16.01 15.01	5.6	3.8		
BairA	36.3	36.4	30.0	25.0	10.1	7.3	5.9	11 0   8 4	16.0 8.0	8.0	7.0	3.0 5.0		
nd Jania	21.0 50.0	25.0 50.0	20,0 47.5	20 0 48.2	15,0 4.6	12.0 3.0	8.4 20.0	21.0	10.5	10.7	2.0	3.6 1.5		
	30.0	Ju 10	7, 3	70.2	7.0	3.0	±0.0 ſ	13	10.0	'*."	- "	1.4		
ALIST COUNTRIES			+		_									
SIA	7.5	2.0	2.4	1.5	1.5	1.6	2.9	0.7	1.8	1.0	1.0	1.0 0.1		
la	0.8	0.5	1,0	-	4	0.1	0.4	03	0.8	-	-	9.		
ocratic People's public of Korea	6.7	1.5	1 4	1.5	1.5	1.5	2.5	0 4	1.0	1.0	1.0	0.8		