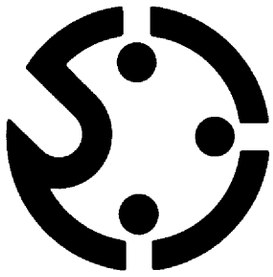


INTERNATIONAL IRON AND STEEL INSTITUTE

Steel Statistical Yearbook 1991

COMMITTEE ON STATISTICS
Brussels, 1991

INTERNATIONAL
IRON AND STEEL
INSTITUTE

Steel Statistical Yearbook 1991

COMMITTEE ON STATISTICS
Brussels 1991

© Copyright by
INTERNATIONAL IRON AND STEEL INSTITUTE
Association internationale à but scientifique
1991

ALL RIGHTS RESERVED
For permission to reproduce any part of this material,
or for additional copies write to:

Secretary General
INTERNATIONAL IRON AND STEEL INSTITUTE
Rue Colonel Bourg, 120
B-1140 Brussels, Belgium

Printed in Belgium

INTRODUCTION

This yearbook presents a cross-section of steel industry statistics which are exchanged or published by the International Iron and Steel Institute. The contents were finalised in November 1991.

In general the statistics presented are based on a broad definition of the steel industry and its products, covering blast furnaces and their associated raw material preparation facilities; steel melting and casting shops, with associated foundries; hot and cold rolling and finishing; manufacture of tube and pipe, and wire drawing. Crude steel is defined as the total of usable ingots, continuously cast semi-finished products, and liquid steel for castings. Pig iron comprises both steelmaking and foundry iron, but excludes direct reduced iron. Countries are classified on an economic and geographic basis: the Western World excludes the USSR, the People's Republic of China, and other centrally planned economies. Western World countries are divided into two categories, industrial and developing, in many of the tables.

The terms F.R. Germany and German Democratic Republic refer to the territories prior to unification in all tables except Table 3A and Table 17A.

The unit of measurement employed is the metric ton (1,000 kg. or 2,205 lbs.). Due to rounding, some columns or rows may not add exactly to the stated totals. E indicates that the figure has been estimated by IISI, three dots (...) indicates that an item of information was not available. Further explanatory notes related to specific tables can be found in the Appendix.

Enquiries should be addressed to:-

Philip L. Norris
Department of Economic Affairs
International Iron and Steel Institute
rue Colonel Bourg, 120
B-1140 Brussels
Belgium

CONTENTS

Table		Page
	Production	
1	World Crude Steel Production Summary	1
2	Crude Steel Production by Country	2
3	Monthly Crude Steel Production (29 reporting countries)	4
3A	Monthly Crude Steel Production (43 reporting countries)	6
4	Crude Steel Production by Process	8
5	Continuously Cast Steel	10
	Deliveries	
6	Total Deliveries of Steel Products	
	Argentina	14
	Belgium	15
	Brazil	16
	Canada	17
	France	18
	F.R. Germany	19
	Italy	20
	Japan	21
	Republic of Korea	22
	Luxembourg	23
	Netherlands	24
	Portugal	25
	Spain	26
	Taiwan (R.O.C.)	27
	United Kingdom	28
	United States	29
	Table 6A - selected countries	30
	Trade	
7	Exports of Finished and Semi-Finished Products	36
8	Imports of Finished and Semi-Finished Products	38
9	Steel Trade as a Percentage of World Steel Production	40
	Consumption	
10	Apparent Consumption of Crude Steel	41
11	Apparent Crude Steel Consumption Per Capita	44
12	Apparent Consumption of Finished Steel	47
13A	Steel Intensity of G.D.P. (crude steel)	50
13B	Steel Intensity of G.D.P. (finished steel)	51
	Raw Materials	
14	Direct Reduced Iron Production	52
15	Production of Pellets	53
16	Sinter Production	54
17	Pig Iron Production	56
17A	Monthly Iron Production (36 reporting countries)	58
18	Pig Iron Exports	60
19	Pig Iron Imports	61
20	Iron Ore Production	62
21	Iron Ore Exports	64
22	Iron Ore Imports	65
23	Scrap Consumption	67
24	Scrap Exports	68
25	Scrap Imports	69
	Appendix :	
26	Coke Production	72
27	Crude Steel Production in B.O.F.s	76
28	Crude Steel Production in E.A.F.s	84
29	Crude Steel Production in O.H.F.s	92
30	Steel Tube Production	100
31	Seamless Tube Production	102
32	Welded Tube Production	104
33	Stainless Steel Production	106
34	Explanatory Notes	109

ERRATA - Steel Statistical Yearbook 1991

	Table 10	Table 11	Table 12	
	1984	1984	1984	
Belgium-Luxembourg	4,353	426	3,603	
Denmark	1,610	315	1,376	
France	15,492	282	13,312	
F.R. Germany	31,053	506	27,102	
Greece	1,588	160	1,357	
Ireland	430	122	368	
Italy	21,735	381	18,864	
Netherlands	4,110	285	3,375	
Portugal	1,192	118	961	
Spain	7,026	183	5,872	
United Kingdom (D)	14,330	254	11,411	
E.C. Total	**102,919**	**320**	**87,622**	<<
Austria	2,399	318	2,133	
Finland	2,051	420	1,838	
Norway	1,401	339	1,175	
Sweden	3,716	446	2,820	
Switzerland	2,197	341	1,986	
Turkey	5,271	108	4,566	
Yugoslavia	5,014	218	4,207	
Others	193	133	165	
Other Western Europe	**22,242**	**212**	**18,889**	
Total Western Europe	**125,162**	**294**	**106,511**	<<
Canada	13,282	532	10,450	
United States	111,714	473	87,735	
Japan (D)	74,367	619	69,097	
Australia	6,054	389	4,877	
New Zealand	778	241	703	
South Africa	6,013	195	4,617	
Total Industrial Cts.	**337,369**	**394**	**283,989**	<<
Argentina	3,081	103	2,226	
Bolivia	60	10	51	
Brazil	10,673	80	9,295	
Chile	656	55	506	
Colombia	1,147	41	949	
Costa Rica	146	60	125	
Dominican Republic	122	19	104	
Ecuador	299	33	256	
El Salvador	64	13	55	
Guatemala	98	13	84	
Honduras	58	14	50	
Mexico	7,331	96	6,172	
Nicaragua	40	13	34	
Panama	84	40	72	
Paraguay	31	9	27	
Peru	476	25	398	
Trinidad & Tobago	164	140	140	
Uruguay	85	28	72	
Venezuela	2,086	124	1,779	
Others	444	31	380	
Total Latin America	**27,145**	**71**	**22,774**	

	Table 10	Table 11	Table 12	
	1984	1984	1984	
Algeria	2,581	122	2,206	
Egypt	2,323	51	2,021	
Kenya	200	10	171	
Libyan Arab Republic	361	112	309	
Morocco	799	37	683	
Nigeria	1,665	18	1,423	
Tanzania	68	3	58	
Tunisia (D)	576	82	467	
Zaire	85	3	73	
Zambia	13	2	11	
Zimbabwe (D)	133	17	106	
Other Africa	1,245	5	1,064	
Total Africa	**10,050**	**20**	**8,592**	
Bahrain	123	300	105	
Iran	4,656	101	3,980	
Iraq	877	58	750	
Israel	582	140	498	
Jordan	353	107	302	
Kuwait	1,117	681	955	
Lebanon	518	194	443	
Oman	453	380	387	
Qatar	15	55	13	
Saudi Arabia	4,599	413	3,931	
Syrian Arab Republic	862	87	737	
Other	3,025	312	2,585	
Total Middle East	**17,181**	**163**	**14,686**	
Bangladesh	351	4	300	
Hong Kong	1,796	333	1,536	
India (D)	13,900	19	9,555	
Indonesia	2,626	16	2,305	
Republic of Korea (D)	10,620	263	8,938	
Malaysia	2,448	160	2,092	
Pakistan	1,198	13	1,024	
Philippines (D)	808	15	673	
Singapore (D)	2,174	859	1,873	
Taiwan (R.O.C.) (D)	6,086	320	5,071	
Thailand	2,328	46	1,990	
Other	1,161	11	993	
Total Asia	**45,497**	**33**	**36,350**	
Total Developing Cts.	**99,873**	**42**	**82,402**	
Total Western World	**437,242**	**135**	**366,391**	<<

ERRATA - Steel Statistical Yearbook 1991

	Table 10	Table 11	Table 12	
	1984	1984	1984	
Albania	238	82	183	
Bulgaria	2,990	334	2,337	
Czechoslovakia	10,805	699	8,529	
German Dem. Rep.	8,723	523	6,975	
Hungary	3,328	313	2,782	
Poland	15,206	412	11,940	
Romania	11,748	519	9,597	
U.S.S.R. (E)	159,562	580	125,318	
Total Eastern Europe	**212,600**	**646**	**167,662**	
Cuba	1,049	105	807	
China	60,834	58	47,174	
Other Asian C.P.E.s	7,158	92	5,625	
Total C.P.E.s	**281,641**	**185**	**221,268**	
World Total	**718,883**	**151**	**567,659**	<<

	Table 13A	Table 13B	
	1984	1984	
Belgium-Luxembourg	0.0531	0.0439	
Denmark	0.0289	0.0247	
France	0.0302	0.0259	
F.R. Germany	0.0510	0.0445	
Greece	0.0490	0.0419	
Ireland	0.0234	0.0200	
Italy	0.0525	0.0456	
Netherlands	0.0334	0.0274	
Portugal	0.0593	0.0488	
Spain	0.0433	0.0362	
United Kingdom	0.0323	0.0257	
E.C. Total	**0.0416**	**0.0354**	<<
Austria	0.0377	0.0335	
Finland	0.0390	0.0349	
Norway	0.0260	0.0218	
Sweden	0.0377	0.0286	
Switzerland	0.0246	0.0222	
Turkey	0.1056	0.0915	
Yugoslavia (E)	0.1175	0.0986	
Other Western Europe	**0.0489**	**0.0416**	
Total Western Europe	**0.0427**	**0.0364**	<<
Canada	0.0398	0.0313	
United States	0.0292	0.0229	
Japan	0.0580	0.0539	
Australia	0.0395	0.0318	
New Zealand	0.0354	0.0320	
South Africa	0.1057	0.0812	
Total Industrial Cts.	**0.0392**	**0.0330**	<<
Argentina	0.0448	0.0324	
Brazil	0.0517	0.0450	
Chile	0.0420	0.0324	
Mexico	0.0424	0.0357	
Trinidad & Tobago	0.0213	0.0182	
Venezuela	0.0353	0.0301	
Israel	0.0251	0.0214	
Saudi Arabia	0.0509	0.0435	
Nigeria	0.0225	0.0192	
Tunisia	0.0735	0.0596	
Zimbabwe	0.0324	0.0257	
India	0.0692	0.0476	
Indonesia	0.0308	0.0270	
Republic of Korea	0.1318	0.1109	
Philippines (G.N.P.)	0.0251	0.0209	
Singapore	0.1204	0.1038	
Taiwan (R.O.C.)	0.0995	0.0829	
Total Developing Cts.	**0.0561**	**0.0455**	
Total Western World	**0.0413**	**0.0345**	<<

Table 1

WORLD CRUDE STEEL PRODUCTION SUMMARY

million metric tons

Year	Production	Year	Production
1900	28.3	1950	189.8
1901	31.0	1951	211.3
1902	34.5	1952	211.8
1903	36.1	1953	235.1
1904	36.3	1954	224.4
1905	44.9	1955	270.5
1906	51.2	1956	283.9
1907	53.0	1957	293.0
1908	41.4	1958	271.7
1909	54.2	1959	306.6
1910	60.3	1960	347.1
1911	60.5	1961	345.8
1912	72.8	1962	352.1
1913	76.4	1963	377.6
1914	60.4	1964	428.1
1915	66.6	1965	450.5
1916	78.2	1966	469.3
1917	82.0	1967	493.0
1918	77.2	1968	523.6
1919	58.5	1969	570.7
1920	72.5	1970	595.3
1921	45.2	1971	582.3
1922	68.8	1972	630.5
1923	78.3	1973	696.4
1924	78.5	1974	703.4
1925	90.4	1975	643.5
1926	93.4	1976	675.2
1927	101.8	1977	675.2
1928	110.0	1978	716.5
1929	120.8	1979	746.7
1930	95.1	1980	716.2
1931	69.6	1981	707.0
1932	50.7	1982	645.0
1933	68.0	1983	663.5
1934	82.4	1984	710.1
1935	99.5	1985	718.9
1936	124.3	1986	713.5
1937	135.7	1987	736.4
1938	110.0	1988	780.0
1939	137.1	1989	786.2
1940	140.6	1990	769.9
1941	153.8		
1942	151.4		
1943	159.6		
1944	151.2		
1945	113.1		
1946	111.6		
1947	136.0		
1948	155.3		
1949	160.0		

Table 2

CRUDE STEEL PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	12,377	9,992	10,154	11,300	10,683	9,713	9,783	11,217	10,948	11,414
Denmark	612	560	493	548	528	632	606	650	624	610
France	21,258	18,402	17,582	19,000	18,808	17,857	17,693	19,122	19,335	19,015
F.R. Germany	41,610	35,880	35,729	39,389	40,497	37,134	36,248	41,023	41,073	38,434
Greece	930	933	866	936	985	1,009	907	959	956	1,050
Ireland	33	61	141	166	203	208	220	271	324	326
Italy	24,777	24,009	21,811	24,061	23,898	22,882	22,859	23,760	25,213	25,510
Luxembourg	3,790	3,510	3,294	3,987	3,945	3,705	3,302	3,661	3,721	3,560
Netherlands	5,472	4,353	4,484	5,739	5,517	5,283	5,082	5,518	5,681	5,412
Portugal	555	502	674	690	665	710	732	812	762	746
Spain	12,896	13,178	13,009	13,497	14,193	11,882	11,691	11,886	12,765	12,935
United Kingdom	15,573	13,704	14,986	15,121	15,722	14,725	17,414	18,950	18,740	17,841
E.C. Total	**139,883**	**125,084**	**123,223**	**134,434**	**135,644**	**125,740**	**126,537**	**137,829**	**140,142**	**136,853**
Austria	4,656	4,258	4,411	4,870	4,660	4,292	4,301	4,560	4,717	4,291
Finland	2,428	2,414	2,416	2,639	2,518	2,586	2,669	2,798	2,921	2,860
Norway	848	768	876	916	944	836	851	910	678	385
Sweden	3,770	3,900	4,210	4,705	4,813	4,710	4,595	4,779	4,692	4,454
Switzerland	934	835	835	978	987	1,075	866	988	1,064	1,105
Turkey	2,425	3,183	3,834	4,330	4,864	5,928	7,044	7,982	7,799	9,322
Yugoslavia	3,977	3,840	4,134	4,236	4,480	4,520	4,367	4,485	4,500	3,608
Other Western Europe	**19,038**	**19,198**	**20,716**	**22,674**	**23,266**	**23,947**	**24,693**	**26,502**	**26,371**	**26,025**
Total Western Europe	**158,921**	**144,282**	**143,939**	**157,108**	**158,910**	**149,687**	**151,230**	**164,331**	**166,513**	**162,878**
Canada	14,811	11,871	12,832	14,699	14,637	14,081	14,737	14,866	15,458	12,281
United States	109,614	67,656	76,762	83,941	80,068	74,032	80,877	90,650	88,834	88,900
Japan	101,676	99,548	97,179	105,586	105,279	98,275	98,513	105,681	107,908	110,331
Australia	7,635	6,371	5,676	6,302	6,609	6,674	6,100	6,387	6,735	6,666
New Zealand	221	252	234	280	227	287	409	560	682	742
South Africa	9,005	8,280	7,180	7,732	8,507	8,895	8,991	8,837	9,337	8,619
Total Industrial Cts.	**401,883**	**338,260**	**343,802**	**375,648**	**374,237**	**351,931**	**360,857**	**391,312**	**395,467**	**390,418**
Argentina	2,526	2,913	2,943	2,647	2,942	3,235	3,633	3,631	3,893	3,640
Brazil	13,226	12,995	14,671	18,386	20,455	21,233	22,228	24,657	25,055	20,567
Central America	113	248	270	102	101	133	129	116	97	84
Chile	644	492	618	692	689	706	726	909	800	771
Colombia	402	422	482	507	530	632	689	712	711	733
Ecuador	28	28	23	18	18	17	25	23	23	20
Mexico	7,663	7,056	6,978	7,560	7,399	7,225	7,642	7,779	7,851	8,706
Paraguay							13	62	55	52
Peru	364	273	299	337	397	486	496	430	364	284
Trinidad & Tobago		183	210	187	172	326	361	361	347	371
Uruguay	15	28	46	41	39	31	30	30	37	35
Venezuela	2,030	2,226	2,367	2,777	3,055	3,401	3,699	3,646	3,196	3,177
Total Latin America	**27,011**	**26,863**	**28,906**	**33,254**	**35,798**	**37,427**	**39,672**	**42,357**	**42,429**	**38,439**

Table 2
(continued)

CRUDE STEEL PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	557	868	892	755	1,414	1,450	1,533	1,412	1,042	1,050 E
Egypt	1,015	1,074	979	928	1,028	1,013	1,433	2,025	2,114	2,235
Nigeria	22	90	182	229	321	200	184	234	213	220
Tunisia	180	112	170	173	167	189	196	150	194	184
Zimbabwe	691	538	647	423	731	674	597	598	569	586
Other Africa (E)	70	70	75	75	75	75	75	75	75	75 E
Total Africa	**2,535**	**2,752**	**2,945**	**2,583**	**3,736**	**3,601**	**4,018**	**4,494**	**4,207**	**4,350**
Iran	565	550	734	854	836	838	839	978	1,081	1,425
Israel	114	87	83	92	100	110	116	99	100	135
Qatar	469	495	480	488	533	507	491	527	563	572
Saudi Arabia	0	0	275	842	1,106	1,100	1,365	1,614	1,768	1,790
Other (E)	100	100	100	100	100	100	100	100	100	100 E
Total Middle East	**1,248**	**1,232**	**1,672**	**2,376**	**2,675**	**2,655**	**2,911**	**3,318**	**3,612**	**4,021**
Bangladesh	134	78	58	88	122	116	120	120	120	120 E
Hong Kong (E)	120	120	120	120	120	120	120	120	150	150 E
India	10,765	10,997	10,237	10,549	11,936	12,197	13,121	14,309	14,608	14,963
Indonesia	621	693	983	1,171	1,374	1,729	2,059	2,054	2,383	2,892
Republic of Korea	10,753	11,758	11,915	13,034	13,539	14,555	16,782	19,118	21,873	23,125
Malaysia (E)	210	210	350	350	400	450	680	925	1,125	1,200 E
Pakistan (E)	35	50	120	300	750	900	1,000	1,200	1,200	1,200 E
Philippines (E)	350	350	200	250	300	400	450	500	550	600 E
Singapore	263	359	305	362	365	390	441	432	495	489
Taiwan (R.O.C.)	3,157	4,152	5,022	4,934	5,186	5,545	5,771	8,288	9,047	9,747
Thailand	300	312	244	381	447	463	534	552	750	900 E
Other (E)	40	50	50	50	60	60	60	70	70	70 E
Total Asia	**26,748**	**29,129**	**29,604**	**31,589**	**34,599**	**36,925**	**41,138**	**47,688**	**52,371**	**55,456**
Total Developing Cts.	**57,542**	**59,976**	**63,127**	**69,802**	**76,808**	**80,608**	**87,739**	**97,857**	**102,619**	**102,267**
Total Western World	**459,425**	**398,237**	**406,929**	**445,450**	**451,045**	**432,539**	**448,596**	**489,169**	**498,086**	**492,684**
Albania (E)	50	60	70	80	90	100	100	100	112	100 E
Bulgaria	2,483	2,586	2,825	2,878	2,945	2,898	3,044	2,880	2,899	2,401
Czechoslovakia	15,270	14,992	15,024	14,831	15,036	15,112	15,416	15,379	15,465	14,877
German Dem. Rep.	7,467	7,168	7,219	7,573	7,852	7,967	8,243	8,133	7,829	5,566
Hungary	3,645	3,702	3,617	3,770	3,647	3,716	3,622	3,582	3,315	2,866
Poland	15,719	14,794	16,236	16,533	16,126	17,144	17,145	16,873	15,094	13,633
Romania	13,025	13,055	12,593	14,437	13,795	14,276	14,962	14,314	14,415	9,754
U.S.S.R.	148,517	147,153	152,511	154,230	154,653	160,537	161,874	163,037	160,096	154,414
Total Eastern Europe	**206,176**	**203,510**	**210,095**	**214,332**	**214,144**	**221,750**	**224,406**	**224,298**	**219,225**	**203,611**
Cuba	330	301	364	338	408	411	402	314	336	270
P.R. China	35,604	37,160	40,021	43,475	46,794	52,208	56,280	59,430	61,590	66,349
D.P.R. Korea (E)	5,500	5,800	6,100	6,500	6,500	6,600	6,730	6,830	6,930	7,000 E
Total C.P.E.s	**247,610**	**246,771**	**256,580**	**264,645**	**267,846**	**280,969**	**287,818**	**290,872**	**288,081**	**277,230**
World Total	**707,035**	**645,008**	**663,509**	**710,095**	**718,891**	**713,508**	**736,414**	**780,041**	**786,167**	**769,914**

E - estimate

Table 3

MONTHLY CRUDE STEEL PRODUCTION

thousand metric tons

European Community (10)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
January	10,948	11,620	9,466	10,920	10,968	11,043	9,705	11,442	12,172	11,461	11,189
February	11,096	11,493	9,675	11,174	10,795	10,517	9,964	11,104	11,486	11,136	10,820
March	12,375	12,355	10,956	11,947	12,194	11,262	11,253	11,744	12,174	12,437	11,790
April	11,586	11,739	10,211	10,940	11,485	11,081	10,656	11,079	12,212	11,559	11,513
May	12,293	11,968	10,823	11,732	11,777	10,567	11,376	11,602	11,916	11,863	11,497
June	11,963	11,044	10,621	11,404	11,877	10,516	10,935	11,664	12,009	11,413	11,476
July	11,517	9,726	9,537	11,036	11,164	9,874	10,327	10,941	11,480	10,931	10,761
August	9,836	7,596	7,944	8,889	9,252	8,299	8,458	9,706	10,197	9,817	8,721
September	11,972	9,593	10,587	11,525	11,403	10,712	10,360	11,748	11,601	11,523	11,152
October	12,134	9,604	11,294	11,946	11,873	11,064	11,298	12,386	11,834	11,769	11,736
November	11,986	9,202	10,980	11,490	11,426	10,565	10,912	12,066	11,589	11,474	
December	10,937	8,173	10,009	10,269	10,183	9,103	10,034	10,963	9,969	9,809	
Year total	**138,643**	**124,113**	**122,103**	**133,272**	**134,397**	**124,603**	**125,278**	**136,445**	**138,638**	**135,193**	**110,655**

United States

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
January	9,607	7,017	5,052	7,230	6,336	6,955	5,668	7,602	7,919	7,475	6,874
February	9,097	6,510	5,149	7,386	6,215	6,505	5,436	7,243	7,278	6,916	6,082
March	10,657	7,300	6,464	8,215	7,502	7,209	6,690	7,950	8,162	7,716	6,607
April	10,199	6,354	6,615	8,162	7,141	7,064	6,715	7,619	7,927	7,447	6,431
May	10,363	6,057	6,724	8,323	7,103	6,909	6,932	8,013	7,832	7,736	6,419
June	9,481	5,487	6,344	7,208	6,615	6,105	6,667	7,285	7,413	7,386	6,366
July	9,217	5,187	6,279	6,768	6,359	5,763	6,644	7,542	7,217	7,349	6,657
August	9,181	5,023	6,369	6,273	6,468	5,142	6,799	7,421	7,067	7,666	6,701
September	8,725	4,806	6,472	5,786	6,282	5,120	6,980	7,472	6,910	7,341	6,607
October	8,167	4,773	6,978	6,081	6,669	5,522	7,324	7,559	7,416	7,642	6,917
November	7,223	4,123	6,589	5,826	6,396	5,317	7,150	7,152	6,700	7,276	
December	6,959	4,042	6,342	5,455	6,104	5,331	7,180	7,216	6,551	6,733	
Year total	**108,876**	**66,679**	**75,377**	**82,713**	**79,190**	**72,942**	**80,185**	**90,074**	**88,392**	**88,683**	**65,661**

Japan

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
January	8,314	8,787	7,677	8,645	8,875	8,568	7,797	9,081	9,055	9,172	9,533
February	7,785	8,206	7,121	8,325	8,426	7,877	7,261	8,540	8,344	8,274	8,839
March	8,354	8,813	7,759	8,608	9,162	8,496	7,987	8,788	8,986	9,170	9,614
April	8,438	8,788	7,964	8,822	9,113	8,438	8,237	8,794	9,082	9,126	9,500
May	8,516	8,766	8,207	9,031	9,159	8,526	8,225	8,795	9,191	9,335	9,635
June	8,416	8,453	8,005	8,719	8,779	8,267	7,946	8,537	8,968	8,980	9,345
July	8,748	8,191	8,408	9,068	8,965	8,077	8,153	8,940	9,189	9,189	9,238
August	8,516	7,925	8,139	8,836	8,539	7,764	8,158	8,559	8,769	9,157	9,016
September	8,398	7,867	8,202	8,621	8,289	7,910	8,010	8,618	8,710	9,077	8,894
October	9,006	8,060	8,913	9,186	8,917	8,227	8,984	9,365	9,435	9,822	9,246
November	8,668	7,888	8,459	8,828	8,498	8,024	8,862	8,822	8,933	9,394	
December	8,516	7,803	8,315	8,895	8,559	8,101	8,893	8,842	9,247	9,643	
Year total	**101,675**	**99,547**	**97,169**	**105,584**	**105,281**	**98,275**	**98,513**	**105,681**	**107,909**	**110,339**	**92,860**

Table 3
(continued)

MONTHLY CRUDE STEEL PRODUCTION

thousand metric tons

Other Reporting Countries

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
January	8,487	8,537	7,605	9,233	9,192	10,232	10,202	11,525	12,086	11,925	11,952
February	8,138	7,998	7,318	8,795	8,806	9,480	9,671	10,923	11,452	10,948	11,012
March	9,202	8,832	8,288	9,671	10,170	10,526	10,650	11,822	12,673	12,215	12,436
April	8,660	8,261	8,014	9,226	9,365	9,970	10,171	11,223	12,089	11,351	11,754
May	8,892	8,501	8,360	9,390	9,831	10,234	10,662	11,503	11,924	11,497	11,828
June	8,497	8,033	8,169	9,105	9,611	9,765	10,346	11,289	11,486	11,203	11,437
July	8,230	7,881	7,990	8,899	9,186	9,412	10,045	11,217	11,496	10,778	11,315
August	7,830	8,219	8,477	9,312	9,726	9,929	10,561	11,482	11,939	11,131	12,254
September	7,919	7,989	8,606	9,175	9,986	10,056	10,920	11,558	11,532	11,322	12,263
October	8,149	7,905	9,106	9,666	10,439	10,457	11,292	12,089	12,276	11,754	12,595
November	7,870	7,551	8,855	9,197	10,116	10,258	10,999	11,666	11,777	11,442	
December	8,355	7,367	8,661	9,267	10,249	10,217	11,049	11,851	11,892	11,536	
Year total	**100,229**	**97,074**	**99,449**	**110,936**	**116,677**	**120,536**	**126,568**	**138,148**	**142,622**	**137,103**	**118,845**

Total 29 Reporting Countries

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
January	37,356	35,961	29,800	36,028	35,371	36,798	33,372	39,650	41,232	40,033	39,547
February	36,116	34,207	29,263	35,680	34,242	34,379	32,332	37,810	38,560	37,274	36,753
March	40,588	37,300	33,467	38,441	39,028	37,493	36,580	40,304	41,995	41,538	40,448
April	38,883	35,142	32,804	37,150	37,104	36,553	35,779	38,715	41,310	39,484	39,198
May	40,064	35,292	34,114	38,476	37,870	36,236	37,195	39,913	40,863	40,431	39,379
June	38,357	33,017	33,139	36,436	36,882	34,653	35,894	38,775	39,876	38,983	38,624
July	37,712	30,985	32,214	35,771	35,674	33,126	35,169	38,640	39,382	38,247	37,970
August	35,363	28,763	30,929	33,310	33,985	31,134	33,976	37,168	37,972	37,771	36,691
September	37,014	30,255	33,867	35,107	35,960	33,798	36,270	39,396	38,753	39,262	38,917
October	37,456	30,342	36,291	36,879	37,898	35,270	38,898	41,399	40,961	40,987	40,494
November	35,747	28,764	34,883	35,341	36,436	34,164	37,923	39,706	38,999	39,586	
December	34,767	27,385	33,327	33,886	35,095	32,752	37,156	38,872	37,659	37,721	
Year total	**449,423**	**387,413**	**394,098**	**432,505**	**435,545**	**416,356**	**430,544**	**470,348**	**477,561**	**471,318**	**388,022**

In these tables, the European Community figures comprise the following ten countries: Belgium, Denmark, F.R. Germany, France, Italy, Luxembourg, Netherlands, Portugal, Spain, United Kingdom. Ireland and Greece, which do not directly report monthly production to IISI, are excluded.

Other reporting countries include Austria, Finland, Norway, Sweden, Turkey, Yugoslavia, Canada, Argentina, Brazil, Chile, Mexico, Venezuela, Australia, India, Republic of Korea, South Africa, and Taiwan (R.O.C.).

The other countries included in the monthly crude steel production report IISI 101/102 comprise: Nigeria from 1984; Qatar, Saudi Arabia, and Zimbabwe from 1988; Czechoslovakia, the former German Democratic Republic, Hungary, Poland, the U.S.S.R., and P.R. China from 1990; and Egypt, Iran, and Romania from 1991. These countries have been excluded from the above figures to retain comparability over the years shown.

The above figures may differ slightly from those in Table 2, due to annual revisions which cannot be allocated month-by-month.

Table 3A

MONTHLY CRUDE STEEL PRODUCTION

thousand metric tons

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Belgium	1,031	963	1,061	940	1,031	916	812	958	922	975	1,009
Denmark	45	59	58	41	51	51	16	57	59	65	66
France	1,627	1,546	1,756	1,611	1,714	1,729	1,669	1,168	1,654	1,646	1,559
F.R. Germany (1)	3,855	3,720	4,179	3,747	3,956	3,536	3,553	3,518	3,614	3,704	3,659
Greece	82	87	93	81	93	96	86	29	75	101	95
Ireland	25	23	35	28	26	33	19	16	34	30	26
Italy	2,164	2,170	2,462	2,248	2,288	2,206	1,953	1,495	2,153	2,173	2,180
Luxembourg	312	273	326	296	278	298	299	279	302	318	301
Netherlands	438	429	439	467	446	466	478	491	455	420	394
Portugal	62	53	65	65	66	71	67	54	49	66	48
Spain	1,083	1,047	1,090	1,106	1,069	1,131	1,015	851	1,108	1,140	1,100
United Kingdom	1,508	1,436	1,682	1,632	1,580	1,501	1,458	1,319	1,567	1,545	1,494
E.C. Total	**12,232**	**11,806**	**13,245**	**12,261**	**12,597**	**12,034**	**11,426**	**10,236**	**11,992**	**12,183**	**11,931**
Austria	347	363	397	386	373	353	349	344	354	372	364
Finland	254	227	247	253	249	235	186	247	226	261	226
Norway	32	30	34	26	35	28	9	39	37	40	32
Sweden	435	383	448	424	420	337	25	337	419	433	410
Turkey	801	741	821	731	779	748	693	782	802	811	818
Yugoslavia	343	334	370	321	249	327	293	290	279	293	285
Canada	1,185	1,083	1,283	1,192	1,336	1,276	1,047	700	722	745	777
United States	7,475	6,916	7,716	7,447	7,736	7,386	7,349	7,666	7,341	7,642	7,276
Argentina	239	285	312	311	278	306	169	342	328	367	349
Brazil	1,969	1,731	1,896	1,468	1,541	1,516	1,629	1,551	1,804	1,904	1,733
Chile	61	52	58	51	57	52	73	79	74	85	66
Mexico	743	674	760	748	692	681	711	742	747	784	725
Venezuela	271	271	306	240	261	262	295	296	271	239	233
I.R. Iran	100	140	126	140	132	113	77	75	95	118	139
Qatar	53	48	25	49	53	49	50	52	47	53	52
Saudi Arabia	162	155	70	158	165	156	163	157	160	161	161
India	1,320	1,220	1,391	1,222	1,128	1,161	1,245	1,226	1,255	1,300	1,260
Taiwan (R.O.C.)	798	701	679	818	847	748	776	816	825	908	878
Republic of Korea	1,871	1,782	1,974	1,868	1,945	1,905	1,947	1,952	1,904	1,915	1,973
Japan	9,172	8,274	9,170	9,126	9,335	8,980	9,189	9,157	9,077	9,822	9,394
Australia	576	451	538	555	532	530	553	626	601	573	569
Egypt	192	165	197	183	181	183	173	189	188	181	189
South Africa	681	620	702	738	776	739	778	764	674	722	744
Nigeria	6	14	15	26	22	22	17	17	21	23	18
Zimbabwe	45	45	55	56	49	48	60	54	53	38	39
Total 37 countries	**41,362**	**38,512**	**42,834**	**40,798**	**41,766**	**40,174**	**39,282**	**38,734**	**40,294**	**41,975**	**40,640**
Czechoslovakia	1,292	1,230	1,353	1,291	1,277	1,184	1,179	1,178	1,170	1,259	1,265
former G.D.R. (2)	664	560	680	593	615	492	390	374	360	283	336
Hungary	268	252	203	243	272	263	239	222	235	245	260
Poland	1,219	1,158	1,250	1,186	1,154	1,080	1,060	1,070	1,100	1,131	1,094
Romania	808	778	944	962	977	873	788	769	727	672	734
U.S.S.R.	13,453	12,517	13,899	13,183	13,323	12,787	12,579	12,728	12,225	12,676	12,158
P.R. China	5,171	4,918	5,604	5,510	5,680	5,415	5,212	5,430	5,938	5,972	5,787
Total 43 countries	**63,573**	**59,365**	**66,087**	**63,173**	**64,449**	**61,776**	**60,339**	**60,131**	**61,689**	**63,930**	**61,939**

E - estimated

(1) - including former G.D.R.

(2) - excluded from totals to avoid double counting

Table 3A
(continued)

MONTHLY CRUDE STEEL PRODUCTION

thousand metric tons

Dec	1990 Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	1991 Year-to-date
797	**11,415**	1,000	939	1,020	1,017	1,018	966	813	782	941	**8,496**
42	**610**	59	59	56	60	62	65	16	62	63	**502**
1,336	**19,015**	1,607	1,517	1,698	1,620	1,697	1,732	1,471	1,050	1,452	**13,843**
2,980	**44,020**	3,540	3,519	3,800	3,656	3,514	3,686	3,560	3,192	3,445	**31,911**
78	**996**	94	81	87	74	100	99	70	39	80	**724**
31	**326**	25	23	34	25	25	35	18	12	35	**232**
1,947	**25,439**	2,121	2,086	2,287	2,170	2,244	2,087	2,125	1,077	2,199	**18,396**
279	**3,561**	206	271	296	297	302	299	301	272	301	**2,546**
493	**5,416**	482	431	372	378	378	417	413	463	457	**3,792**
33	**699**	29	29	32	49	51	51	55	46	33	**375**
965	**12,705**	1,085	1,030	1,095	1,105	1,050	1,050	1,080	830	1,080	**9,405**
1,178	**17,900**	1,359	1,238	1,443	1,431	1,495	1,438	1,229	1,218	1,456	**12,307**
10,158	**142,102**	**11,608**	**11,223**	**12,220**	**11,882**	**11,935**	**11,925**	**11,151**	**9,042**	**11,542**	**102,529**
290	**4,291**	363	353	371	366	352	359	378	352	339	**3,233**
250	**2,861**	259	220	265	253	255	222	189	232	240	**2,134**
41	**384**	38	25	38	42	36	45	9	36	43	**312**
383	**4,454**	413	371	412	380	367	353	28	343	398	**3,065**
796	**9,322**	566	726	845	759	859	784	840	842	775	**6,995**
227	**3,611**	229	187	238	234	180	202	139	190	198	**1,797**
935	**12,281**	1,113	1,108	1,182	1,017	1,054	1,079	851	1,088	1,190	**9,683**
6,733	**88,683**	6,874	6,082	6,607	6,431	6,419	6,366	6,657	6,701	6,607	**58,744**
336	**3,621**	279	218	222	251	243	272	281	255	293	**2,315**
1,839	**20,580**	1,845	1,694	1,914	1,870	1,929	1,703	1,863	1,991	1,996	**16,805**
65	**773**	44	70	86	79	84	79	76	83	78	**679**
617	**8,625**	804	666	756	703	628	578	581	601	669	**5,986**
233	**3,177**	232	230	270	276	255	238	257	253	260	**2,271**
170	**1,425**	169	187	168	189	183	175	192	173	180	**1,616**
40	**571**	51	39	40	49	54	50	50	50	49	**431**
165	**1,833**	156	141	158	166	168	164	179	176	165	**1,472**
1,237	**14,963**	1,396	1,259	1,487	1,313	1,282	1,289	1,325	1,410	1,404	**12,165**
951	**9,747**	934	755	841	873	837	863	912	948	912	**7,874**
2,090	**23,125**	2,202	1,951	2,243	2,113	2,183	2,104	2,167	2,162	2,101	**19,226**
9,643	**110,339**	9,533	8,839	9,614	9,500	9,635	9,345	9,238	9,016	8,894	**83,615**
562	**6,666**	471	482	454	412	456	460	601	638	577	**4,551**
214	**2,235**	218	205	224	220	229	200	204	219	218	**1,936**
684	**8,622**	763	698	813	812	828	807	818	831	855	**7,225**
21	**220**	0	5	12	14	14	15	15	15	15	**105**
44	**586**	51	32	47	18	36	54	54	56	60	**408**
38,724	**485,097**	**40,612**	**37,765**	**41,527**	**40,221**	**40,501**	**39,731**	**39,054**	**37,700**	**40,060**	**357,171**
1,219	**14,897**	1,248	1,120	1,208	1,192	1,130	940	918	907	890	**9,553**
240	**5,587**	300	300	309	270	313	315	302	270	275	**2,654**
229	**2,931**	213	208	217	186	194	135	137	95	125	**1,511**
1,137	**13,639**	1,175	991	1,086	916	920	817	806	776	799	**8,286**
668	**9,700**	611	457	699	695	620	613	658	668	662	**5,683**
12,886	**154,414**	12,707	11,494	12,570	10,581	11,403	11,062	11,027	11,056	10,499	**102,399**
6,604	**67,241**	5,519	5,217	5,890	5,613	5,742	5,675	5,633	6,016	5,820	**51,125**
61,467	**747,919**	**62,085**	**57,252**	**63,197**	**59,404**	**60,510**	**58,973**	**58,233**	**57,219**	**58,854**	**535,727**

Table 4

CRUDE STEEL PRODUCTION BY PROCESS - 1989

	thousand metric tons					percentage of total production			
	B.O.F.	E.A.F.	O.H.	Other	Total	B.O.F.	E.A.F.	O.H.	Other
Belgium	9,960	988			10,948	91.0	9.0	0.0	0.0
Denmark		624			624	0.0	100.0	0.0	0.0
France	13,956	5,379			19,335	72.2	27.8	0.0	0.0
F.R. Germany	33,943	7,130			41,073	82.6	17.4	0.0	0.0
Greece		956			956	0.0	100.0	0.0	0.0
Ireland		324			324	0.0	100.0	0.0	0.0
Italy	11,173	14,035		5	25,213	44.3	55.7	0.0	0.0
Luxembourg	3,721				3,721	100.0	0.0	0.0	0.0
Netherlands	5,419	262			5,681	95.4	4.6	0.0	0.0
Portugal	384	340			724	53.0	47.0	0.0	0.0
Spain	5,617	7,148			12,765	44.0	56.0	0.0	0.0
United Kingdom	13,628	5,113			18,740	72.7	27.3	0.0	0.0
E.C. Total	**97,801**	**42,299**	**0**	**5**	**140,104**	**69.8**	**30.2**	**0.0**	**0.0**
Austria	4,333	384			4,717	91.9	8.1	0.0	0.0
Finland	2,445	476			2,921	83.7	16.3	0.0	0.0
Norway	234	444			678	34.5	65.5	0.0	0.0
Sweden	2,610	2,082			4,692	55.6	44.4	0.0	0.0
Turkey	2,810	4,667	322		7,799	36.0	59.8	4.1	0.0
Yugoslavia	1,934	1,465	1,099		4,498	43.0	32.6	24.4	0.0
Other Western Europe	**14,366**	**9,518**	**1,421**	**0**	**25,305**	**56.8**	**37.6**	**5.6**	**0.0**
Total Western Europe	**112,166**	**51,817**	**1,421**	**5**	**165,409**	**67.8**	**31.3**	**0.9**	**0.0**
Canada (1)	10,734	4,724			15,458	69.4	30.6	0.0	0.0
United States	52,922	31,885	4,029		88,835	59.6	35.9	4.5	0.0
Japan	74,874	33,034			107,908	69.4	30.6	0.0	0.0
Australia	6,258	477			6,735	92.9	7.1	0.0	0.0
New Zealand	440	242			682	64.5	35.5	0.0	0.0
South Africa	5,995	3,222		120	9,337	64.2	34.5	0.0	1.3
Total Industrial Cts.	**263,389**	**125,400**	**5,450**	**125**	**394,364**	**66.8**	**31.8**	**1.4**	**0.0**
Argentina	1,955	1,732	206		3,893	50.2	44.5	5.3	0.0
Brazil	18,739	5,660	1	655	25,055	74.8	22.6	0.0	2.6
Chile	747	53			800	93.4	6.6	0.0	0.0
Mexico	2,965	4,065	821		7,851	37.8	51.8	10.5	0.0
Peru	188	176			364	51.7	48.3	0.0	0.0
Venezuela		2,704	491		3,196	0.0	84.6	15.4	0.0
India	5,927	4,052	4,629		14,608	40.6	27.7	31.7	0.0
Republic of Korea	15,421	6,452			21,873	70.5	29.5	0.0	0.0
Taiwan (R.O.C.)	6,001	3,046			9,047	66.3	33.7	0.0	0.0
Total Western Cts.	**315,331**	**153,340**	**11,598**	**780**	**481,049**	**65.6**	**31.9**	**2.4**	**0.2**
Bulgaria	1,455	1,155	290		2,899	50.2	39.8	10.0	0.0
Czechoslovakia	7,242	2,021	6,202		15,465	46.8	13.1	40.1	0.0
German Dem. Rep.	2,388	2,385	3,042	14	7,829	30.5	30.5	38.9	0.2
Hungary	1,541	362	1,411		3,314	46.5	10.9	42.6	0.0
Poland	7,222	2,480	5,387	5	15,094	47.8	16.4	35.7	0.0
Romania	7,453	3,460	3,503		14,416	51.7	24.0	24.3	0.0
U.S.S.R.	55,538	20,925	83,554	79	160,096	34.7	13.1	52.2	0.0
Total Eastern Europe	**82,839**	**32,788**	**103,389**	**98**	**219,113**	**37.8**	**15.0**	**47.2**	**0.0**
Total	**398,169**	**186,128**	**114,987**	**878**	**700,162**	**56.9**	**26.6**	**16.4**	**0.1**

(1) Oxygen figure includes Open Hearth.

Table 4
(continued)

CRUDE STEEL PRODUCTION BY PROCESS - 1990

	thousand metric tons					percentage of total production			
	B.O.F.	E.A.F.	O.H.	Other	Total	B.O.F.	E.A.F.	O.H.	Other
Belgium	10,374	1,041			11,414	90.9	9.1	0.0	0.0
Denmark		610			610	0.0	100.0	0.0	0.0
France	13,614	5,401			19,015	71.6	28.4	0.0	0.0
F.R. Germany	31,328	7,106			38,434	81.5	18.5	0.0	0.0
Greece		1,050			1,050	0.0	100.0	0.0	0.0
Ireland		326			326	0.0	100.0	0.0	0.0
Italy	11,200	14,310			25,510	43.9	56.1	0.0	0.0
Luxembourg	3,560				3,560	100.0	0.0	0.0	0.0
Netherlands	5,180	232			5,412	95.7	4.3	0.0	0.0
Portugal	337	409			746	45.2	54.8	0.0	0.0
Spain	5,593	7,342			12,935	43.2	56.8	0.0	0.0
United Kingdom	13,169	4,672			17,841	73.8	26.2	0.0	0.0
E.C. Total	**94,355**	**42,498**	**0**	**0**	**136,853**	**68.9**	**31.1**	**0.0**	**0.0**
Austria	3,921	370			4,291	91.4	8.6	0.0	0.0
Finland	2,405	456			2,860	84.1	15.9	0.0	0.0
Norway		385			385	0.0	100.0	0.0	0.0
Sweden	2,712	1,743			4,455	60.9	39.1	0.0	0.0
Turkey	3,762	4,955	605		9,322	40.4	53.2	6.5	0.0
Yugoslavia	1,715	1,100	793		3,608	47.5	30.5	22.0	0.0
Other Western Europe	**14,515**	**9,008**	**1,398**	**0**	**24,921**	**58.2**	**36.1**	**5.6**	**0.0**
Total Western Europe	**108,870**	**51,507**	**1,398**	**0**	**161,774**	**67.3**	**31.8**	**0.9**	**0.0**
Canada	7,773	4,508			12,281	63.3	36.7	0.0	0.0
United States	53,028	32,701	3,171		88,900	59.6	36.8	3.6	0.0
Japan	75,640	34,691			110,331	68.6	31.4	0.0	0.0
Australia	6,134	532			6,666	92.0	8.0	0.0	0.0
New Zealand	505	237			742	68.1	31.9	0.0	0.0
South Africa	5,473	3,034		112	8,619	63.5	35.2	0.0	1.3
Total Industrial Cts.	**257,423**	**127,210**	**4,569**	**112**	**389,314**	**66.1**	**32.7**	**1.2**	**0.0**
Argentina	1,986	1,625	29		3,640	54.6	44.6	0.8	0.0
Brazil	15,214	4,896		457	20,567	74.0	23.8	0.0	2.2
Chile	728	44			771	94.3	5.7	0.0	0.0
Mexico	3,530	4,462	713		8,706	40.5	51.3	8.2	0.0
Peru	103	180			284	36.4	63.6	0.0	0.0
Venezuela		2,879	298		3,177	0.0	90.6	9.4	0.0
India	6,173	4,114	4,676		14,963	41.3	27.5	31.3	0.0
Republic of Korea	15,937	7,188			23,125	68.9	31.1	0.0	0.0
Taiwan (R.O.C.)	5,627	4,042		78	9,747	57.7	41.5	0.0	0.8
Total Western Cts.	**306,720**	**156,640**	**10,286**	**646**	**474,293**	**64.7**	**33.0**	**2.2**	**0.1**
Bulgaria (E)	1,200	960	240		2,401	50.0	40.0	10.0	0.0
Czechoslovakia	7,102	1,958	5,817		14,877	47.7	13.2	39.1	0.0
German Dem. Rep. (E)	1,910	1,750	1,890	16	5,566	34.3	31.4	34.0	0.3
Hungary (1)	1,424	261	1,181		2,866	49.7	9.1	41.2	0.0
Poland	7,211	2,455	3,965	2	13,633	52.9	18.0	29.1	0.0
Romania	5,267	2,370	2,117		9,754	54.0	24.3	21.7	0.0
U.S.S.R.	54,365	20,130	79,846	73	154,414	35.2	13.0	51.7	0.0
Total Eastern Europe	**78,479**	**29,884**	**95,056**	**91**	**203,510**	**38.6**	**14.7**	**46.7**	**0.0**
Total	**385,200**	**186,524**	**105,342**	**737**	**677,803**	**56.8**	**27.5**	**15.5**	**0.1**

(1) Oxygen figure includes Basic Bessemer/Thomas

Table 5

CONTINUOUSLY CAST STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	3,789	3,294	3,903	5,597	6,412	7,036	8,391	9,871	9,951	10,469
Denmark	586	542	480	545	528	632	606	650	624	610
France	10,918	10,769	11,218	12,708	15,168	16,094	16,475	17,969	18,156	17,940
F.R. Germany	22,319	22,214	25,654	30,294	32,208	31,404	31,898	36,325	36,875	35,092
Greece	930	933	866	936	985	1,009	907	959	956	1,050
Ireland	32	61	141	166	203	208	220	271	324	326
Italy	12,578	14,056	14,886	17,638	18,794	19,322	20,506	22,074	23,731	24,180
Luxembourg	265	680	794	1,044	1,117	1,282	1,238	1,252	1,246	1,215
Netherlands	1,159	1,350	1,610	2,220	2,155	2,258	3,302	4,171	4,949	5,061
Portugal	212	236	291	277	293	319	332	375	372	382
Spain	5,098	5,525	5,965	6,666	8,084	7,267	7,797	8,843	10,979	11,506
United Kingdom	4,958	5,341	6,986	7,858	8,620	8,903	11,294	13,356	15,031	14,909
E.C. Total	**62,844**	**65,001**	**72,794**	**85,949**	**94,567**	**95,734**	**102,966**	**116,116**	**123,194**	**122,740**
Austria	2,907	3,290	3,862	4,336	4,352	4,061	4,117	4,357	4,515	4,113
Finland	2,231	2,255	2,259	2,485	2,355	2,440	2,508	2,628	2,746	2,798
Norway	136	227	320	471	525	474	459	486	409	355
Sweden	2,517	2,965	3,354	3,744	3,880	3,858	3,842	3,967	3,862	3,820
Switzerland	934	835	835	978	987	1,075	866	988	1,064	1,105
Turkey	1,173	1,772	2,438	3,118	3,197	4,614	5,576	6,752	6,420	7,660
Yugoslavia	1,720	1,826	2,133	2,194	2,395	2,415	2,388	2,776	2,876	2,534
Other Western Europe	**11,618**	**13,170**	**15,201**	**17,326**	**17,691**	**18,937**	**19,756**	**21,954**	**21,892**	**21,280**
Total Western Europe	**74,462**	**78,171**	**87,995**	**103,275**	**112,258**	**114,671**	**122,722**	**138,070**	**145,086**	**144,020**
Canada	4,771	3,895	4,802	5,647	6,384	6,456	7,216	10,300	11,760	9,424
United States	22,247	19,616	24,652	33,266	35,527	40,882	48,339	55,549	57,553	59,619
Japan	71,843	78,377	83,819	94,097	95,940	91,113	91,916	98,367	100,856	103,652
Australia	992	1,118	1,398	1,701	1,792	1,800	2,713	4,568	5,390	5,430
New Zealand	221	252	234	280	227	287	409	560	682	742
South Africa	4,970	5,067	4,316	4,758	5,500	5,684	5,746	6,153	6,854	6,350
Total Industrial Cts.	**179,506**	**186,496**	**207,216**	**243,024**	**257,628**	**260,893**	**279,061**	**313,566**	**328,181**	**328,496**
Argentina	1,244	1,510	1,429	1,254	1,839	2,100	2,372	2,478	2,865	2,769
Brazil	4,816	5,336	6,505	7,589	8,949	9,782	10,123	12,075	13,517	12,024
Chile	9	4	8	11	13	19	12	15	16	17
Colombia	165	196	208	220	255	292	333	374	381	380 E
Mexico	2,447	2,675	3,849	4,082	3,774	3,416	4,143	4,348	4,564	5,312
Paraguay							13	62	55	52
Peru	146	151	164	165	181	260	259	238	218	180 E
Trinidad & Tobago		183	210	187	172	326	361	361	347	371
Uruguay		10	23	41	39	31	30	30	37	35 E
Venezuela	1,049	1,379	1,554	1,724	1,994	2,234	2,464	2,531	2,420	2,367
Egypt	672	658	626	695	759	746	1,369	1,707	1,739	1,946
Nigeria		81	163	162	232	126	130	139	128	139
Zimbabwe	119	48	82	47	104	99	97	122	111	120
Qatar	469	495	480	488	533	507	491	527	563	572
Saudi Arabia			275	842	1,106	1,100	1,365	1,614	1,768	1,790
Indonesia	436	474	710	943	1,136	1,548	1,869	1,936	2,284	2,795
Republic of Korea	4,765	6,012	6,739	7,903	8,574	10,349	14,017	16,885	20,575	22,218
Singapore	243	342	288	352	360	370	422	413	476	489
Taiwan (R.O.C.)	1,848	3,360	4,250	4,277	4,411	4,894	5,155	7,754	8,423	9,370
Total Western Cts.	**197,933**	**209,411**	**234,779**	**274,006**	**292,059**	**299,093**	**324,086**	**367,177**	**388,666**	**391,440**

Table 5
(continued)

CONTINUOUSLY CAST STEEL

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	30.6	33.0	38.4	49.5	60.0	72.4	85.8	88.0	90.9	91.7
Denmark	95.8	96.8	97.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
France	51.4	58.5	63.8	66.9	80.6	90.1	93.1	94.0	93.9	94.3
F.R. Germany	53.6	61.9	71.8	76.9	79.5	84.6	88.0	88.5	89.8	91.3
Greece	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Ireland	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Italy	50.8	58.5	68.2	73.3	78.6	84.4	89.7	92.9	94.1	94.8
Luxembourg	7.0	19.4	24.1	26.2	28.3	34.6	37.5	34.2	33.5	34.1
Netherlands	21.2	31.0	35.9	38.7	39.1	42.7	65.0	75.6	87.1	93.5
Portugal	38.2	47.0	43.2	40.1	44.1	44.9	45.4	46.2	48.8	51.2
Spain	39.5	41.9	45.9	49.4	57.0	61.2	66.7	74.4	86.0	89.0
United Kingdom	31.8	39.0	46.6	52.0	54.8	60.5	64.9	70.5	80.2	83.6
E.C. Total	**44.9**	**52.0**	**59.1**	**63.9**	**69.7**	**76.1**	**81.4**	**84.2**	**87.9**	**89.7**
Austria	62.4	77.3	87.6	89.0	93.4	94.6	95.7	95.5	95.7	95.9
Finland	91.9	93.4	93.5	94.2	93.5	94.4	94.0	93.9	94.0	97.8
Norway	16.0	29.6	36.5	51.4	55.6	56.7	53.9	53.4	60.3	92.2
Sweden	66.8	76.0	79.7	79.6	80.6	81.9	83.6	83.0	82.3	85.8
Switzerland	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Turkey	48.4	55.7	63.6	72.0	65.7	77.8	79.2	84.6	82.3	82.2
Yugoslavia	43.2	47.6	51.6	51.8	53.5	53.4	54.7	61.9	63.9	70.2
Other Western Europe	**61.0**	**68.6**	**73.4**	**76.4**	**76.0**	**79.1**	**80.0**	**82.8**	**83.0**	**81.8**
Total Western Europe	**46.9**	**54.2**	**61.1**	**65.7**	**70.6**	**76.6**	**81.1**	**84.0**	**87.1**	**88.4**
Canada	32.2	32.8	37.4	38.4	43.6	45.8	49.0	69.3	76.1	76.7
United States	20.3	29.0	32.1	39.6	44.4	55.2	59.8	61.3	64.8	67.1
Japan	70.7	78.7	86.3	89.1	91.1	92.7	93.3	93.1	93.5	93.9
Australia	13.0	17.5	24.6	27.0	27.1	27.0	44.5	71.5	80.0	81.5
New Zealand	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
South Africa	55.2	61.2	60.1	61.5	64.7	63.9	63.9	69.6	73.4	73.7
Total Industrial Cts.	**44.7**	**55.1**	**60.3**	**64.7**	**68.8**	**74.1**	**77.3**	**80.1**	**83.0**	**84.1**
Argentina	49.2	51.8	48.6	47.4	62.5	64.9	65.3	68.2	73.6	76.1
Brazil	36.4	41.1	44.3	41.3	43.7	46.1	45.5	49.0	53.9	58.5
Chile	1.4	0.8	1.3	1.6	1.9	2.7	1.7	1.7	2.0	2.2
Colombia	41.0	46.5	43.1	43.4	48.1	46.2	48.2	52.5	53.5	51.8
Mexico	31.9	37.9	55.2	54.0	51.0	47.3	54.2	55.9	58.1	61.0
Paraguay							100.0	100.0	100.0	100.0
Peru	40.0	55.5	54.9	49.0	45.5	53.5	52.4	55.5	59.9	63.4
Trinidad & Tobago		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Uruguay		35.7	49.5	100.0	100.0	100.0	100.0	99.3	99.4	99.3
Venezuela	51.7	62.0	65.6	62.1	65.3	65.7	66.6	69.4	75.7	74.5
Egypt	66.2	61.3	63.9	74.9	73.8	73.6	95.5	84.3	82.3	87.1
Nigeria		90.0	89.6	70.7	72.3	63.0	70.7	59.5	59.9	63.2
Zimbabwe	17.2	8.9	12.7	11.1	14.2	14.7	16.2	20.4	19.5	20.4
Qatar	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Saudi Arabia			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Indonesia	70.2	68.4	72.3	80.6	82.7	89.5	90.8	94.3	95.8	96.6
Republic of Korea	44.3	51.1	56.6	60.6	63.3	71.1	83.5	88.3	94.1	96.1
Singapore	92.4	95.3	94.4	97.2	98.6	94.9	95.7	95.6	96.2	100.0
Taiwan (R.O.C.)	58.5	80.9	84.6	86.7	85.1	88.3	89.3	93.6	93.1	96.1
Total Western Cts.	**44.4**	**54.5**	**59.7**	**63.5**	**67.3**	**72.1**	**75.5**	**78.4**	**81.5**	**83.2**

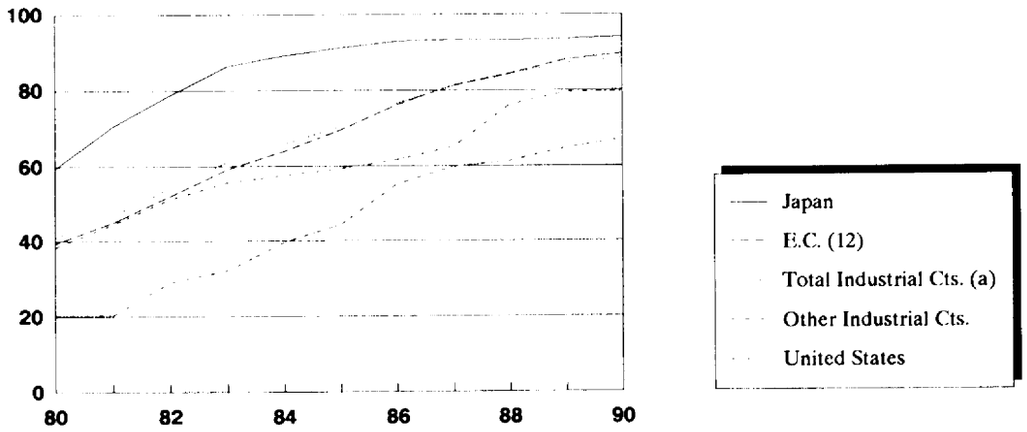
Table 5
(continued)

CONTINUOUSLY CAST STEEL
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Bulgaria (E : 89/90)			197	288	273	404	377	446	460	390	E
Czechoslovakia	228	375	766	1,077	1,156	1,246	1,310	1,338	1,422	1,707	
German Dem. Rep.	1,180	1,233	1,308	1,937	2,649	2,908	3,101	3,219	3,211	2,290	E
Hungary	1,290	1,243	1,420	1,757	1,698	1,937	2,023	2,263	1,842	1,841	
Poland	605	635	653	1,663	1,660	1,820	1,889	1,874	1,162	960	
Romania	2,690	2,927	3,280	4,366	4,127	4,549	4,848	4,509	4,924	3,533	
U.S.S.R.	18,100	18,600	18,900	19,600	21,022	24,051	26,108	27,085	27,622	27,657	
Total Eastern Europe	**24,093**	**25,013**	**26,524**	**30,688**	**32,585**	**36,915**	**39,656**	**40,734**	**40,643**	**38,378**	
P.R. China	2,540	2,750	3,585	4,605	5,069	6,232	7,243	8,719	10,051	14,707	
Total	**224,566**	**237,174**	**264,888**	**309,299**	**329,713**	**342,240**	**370,985**	**416,630**	**439,360**	**444,525**	

E - estimate

Continuously Cast Steel
percentage of crude steel production



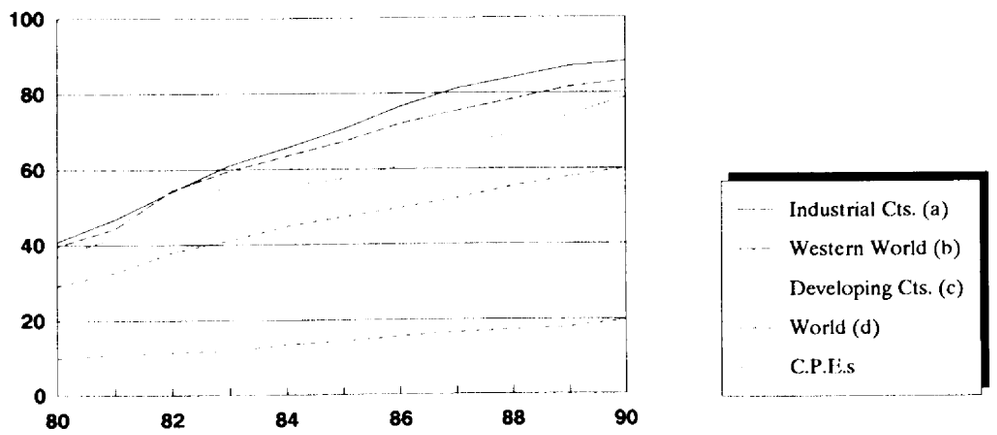


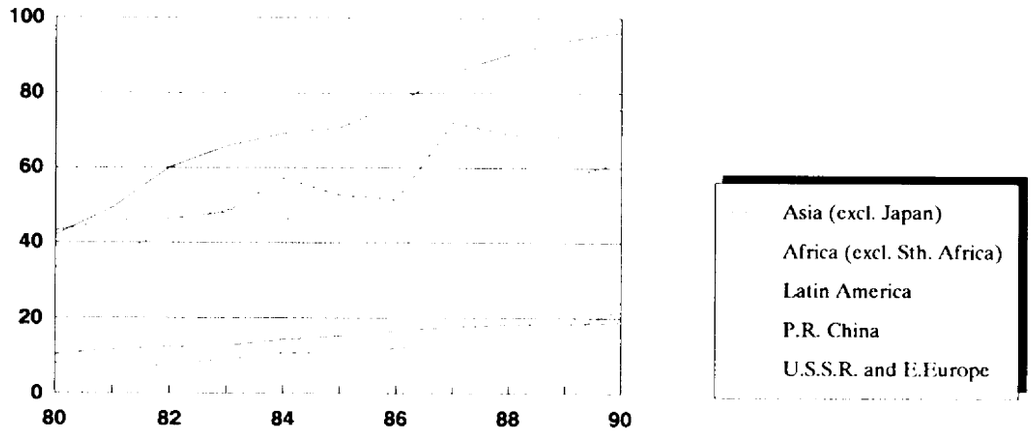
Table 5
(continued)

CONTINUOUSLY CAST STEEL
percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Bulgaria (E : 89/90)			7.0	10.0	9.3	13.9	12.4	15.5	15.9	16.2
Czechoslovakia	1.5	2.5	5.1	7.3	7.7	8.2	8.5	8.7	9.2	11.5
German Dem. Rep.	15.8	17.2	18.1	25.6	33.7	36.5	37.6	39.6	41.0	41.1
Hungary	35.4	33.6	39.3	46.6	46.6	52.1	55.9	63.2	55.6	64.2
Poland	3.8	4.3	4.0	10.1	10.3	10.6	11.0	11.1	7.7	7.0
Romania	20.7	22.4	26.0	30.2	29.9	31.9	32.4	31.5	34.2	36.2
U.S.S.R.	12.2	12.6	12.4	12.7	13.6	15.0	16.1	16.6	17.3	17.9
Total Eastern Europe	**11.7**	**12.3**	**12.6**	**14.3**	**15.2**	**16.7**	**17.7**	**18.2**	**18.5**	**18.9**
P.R. China	7.1	7.4	9.0	10.6	10.8	11.9	12.9	14.7	16.3	22.2
Total	**32.7**	**38.0**	**41.2**	**44.9**	**47.4**	**49.7**	**52.2**	**55.4**	**58.0**	**60.0**

E - estimate

Continuously Cast Steel
percentage of crude steel production



Based on available data.

(a) - The countries included accounted for 79% of crude steel production in the Western World, 1990.

(b) - The countries included accounted for 95% of crude steel production in the Western World, 1990.

(c) - The countries included accounted for 78% of crude steel production in Developing Countries, 1990.

(d) - The countries included accounted for 96% of crude steel production in the World, 1990.

Table 6 **TOTAL DELIVERIES OF STEEL PRODUCTS**

Argentina **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes										
Ingots & Semis for sale	285	238	215	163	7	18	308	459	234	
Railway Track Material	21	21	64	29	25	35	4	7	2	
Structurals and Bar Mill Products:										
Heavy Structurals	66	44	50	69	50	45	25	52	63	
Bars & Light Shapes	222	151	142	246	192	199	157	277	293	
Re-inforcing Bars (1)	627	552	516	485	476	336	273	335	382	
Total	**915**	**747**	**708**	**800**	**718**	**580**	**455**	**664**	**738**	
Wire Rods	58	67	77	93	194	220	328	242	218	
Hot Rolled Strip	4	11	42	86	90	41	87	55	101	
Plates	207	272	148	217	153	47	62	105	114	
Sheet and Coil:										
Hot Rolled Sheet & Coil	214	75	30	60	147	242	139	283	341	
Cold Rolled Sheet & Coil	641	527	392	524	557	527	459	734	779	
Galvanised Sheet	152	127	94	88	120	128	21	0	0	
Other Coated Sheet	7	7	10	6	8	10	1	0	0	
Total	**1,014**	**736**	**526**	**678**	**832**	**907**	**620**	**1,017**	**1,120**	
Tinplate & Black Plate	71	43	52	87	79	94	89	85	90	
Wheels & Axles (rolled & forged) (2)	7	8	6	5	3	4	5	26	25	
Steel Tubes and Fittings (3)										
Drawn Wire	157	107	92	117	131	132	92	118	154	
Cold Rolled Strip	17	23	44	29	32	20	34	55	47	
Cold Drawn Bars (4)										
Total Carbon Steels	**2,756**	**2,273**	**1,974**	**2,304**	**2,264**	**2,098**	**2,084**	**3,157**	**3,261**	
Special Steel Grades (all products)	528	413	407	434	478	475	458	472*	557*	
Total Steel Products	**3,284**	**2,686**	**2,381**	**2,738**	**2,742**	**2,573**	**2,542**	**3,157**	**3,261**	

(1) Includes concrete reinforcing wire.
(2) Includes other forgings for railway wagons. From 1986 read Forgings
(3) Welded tubes included in plates, sheets and cold rolled strip.
(4) Included in special steels.
* - not included in totals to avoid double counting.

For 1988-90 see Table 6A

Table 6
Belgium

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
CARBON STEEL GRADES:										
Semis for Seamless Tubes	0	0	0	0	0	0	0	0	0	0
Ingots & Semis for sale	442	472	712	646	438	350	449	280	254	330
Railway Track Material	0	0	0	0	0	0	0	0	0	0
Structurals and Bar Mill Products:										
Heavy Structurals	821	462	519	488	529	491	433	506	516	72
Bars & Light Shapes	392	282	320	264	223	199	119	153	217	179
Re-inforcing Bars	261	262	202	205	200	138	125	80	20	29
Total	**1,474**	**1,006**	**1,041**	**957**	**952**	**828**	**677**	**739**	**753**	**280**
Wire Rods	653	572	503	570	607	530	465	451	420	534
Hot Rolled Strip	65	64	58	84	93	84	104	59	17	30
Plates	1,638	1,341	1,084	1,131	1,194	961	977	1,107	1,140	1,178
Sheet and Coil:										
Hot Rolled Sheet & Coil	2,412	2,002	2,147	2,541	2,584	2,430	2,662	3,057	2,993	3,753
Cold Rolled Sheet & Coil	1,906	1,542	1,444	1,692	1,888	1,856	1,966	2,246	2,287	2,184
Electrical Sheet	120	79	100	95	101	96	94	105	75	57
Galvanised Sheet (1)	715	626	679	734	747	724	741	971	1,139	1,215
Other Coated Sheet	0	0	0	0	0	0	0	0	0	0
Total	**5,153**	**4,249**	**4,370**	**5,062**	**5,320**	**5,106**	**5,463**	**6,379**	**6,493**	**7,209**
Tinplate & Black Plate	351	418	473	572	531	479	495	445	380	354
Wheels & Axles (rolled & forged)	...	...	...	...	...	...	...	...	...	...
Steel Tubes and Fittings	...	...	...	...	...	...	...	...	...	...
Drawn Wire	...	...	...	...	...	...	...	...	...	...
Cold Rolled Strip	...	...	...	...	...	...	...	...	...	...
Cold Drawn Bars	...	...	...	...	...	...	...	...	...	...
Total Carbon Steels	**9,776**	**8,122**	**8,241**	**9,022**	**9,135**	**8,338**	**8,630**	**9,460**	**9,457**	**9,916**
Special Steel Grades (all products)	472	478	510	640	539	470	503	744	680	629
Total Steel Products	**10,248**	**8,600**	**8,751**	**9,662**	**9,674**	**8,808**	**9,133**	**10,204**	**10,137**	**10,545**

(1) Other Coated Sheet included with Galvanised Sheet.
Excluding tonnages of coils re-exported after sub-contract rolling for other EC steelworks.

Table 6 **TOTAL DELIVERIES OF STEEL PRODUCTS**

Brazil **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	0	0	0	0	0	0	0	0	0	
Ingots & Semis for sale	1,004	919	536	400	703	2,530	3,626	4,322	5,482	
Railway Track Material	108	113	57	104	76	88	110	96	57	
Structurals and Bar Mill Products:										
Heavy Structurals	212	243	219	162	129	142	176	555	559	
Bars & Light Shapes	698	728	521	537	645	819	828	1,375	1,121	
Re-inforcing Bars	1,587	1,682	1,796	1,722	1,794	2,218	2,393	2,225	2,089	
Total	**2,497**	**2,653**	**2,536**	**2,421**	**2,568**	**3,179**	**3,397**	**4,155**	**3,769**	
Wire Rods	256	307	383	420	429	484	796	1,942	1,992	
Hot Rolled Strip										
Plates	1,975	2,337	2,018	1,636	1,773	2,107	2,580	2,333	1,833	
Sheet and Coil:										
Hot Rolled Sheet & Coil	1,397	1,607	1,242	1,701	2,607	2,702	2,428	2,867	2,598	
Cold Rolled Sheet & Coil	1,719	1,920	1,554	1,703	1,987	2,015	1,964	2,846	2,918	
Electrical Sheet	21	37	29	45	41	53	62			
Galvanised Sheet	182	191	169	182	166	193	305	925	1,000	
Other Coated Sheet	39	31	49	63	93	123	137			
Total	**3,358**	**3,786**	**3,043**	**3,694**	**4,894**	**5,086**	**4,896**	**6,638**	**6,516**	
Tinplate & Black Plate	588	652	406	541	476	517	474			
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings	224	276	305	281	178	294	255	348	336	
Drawn Wire	35	1,012	839	920	798	923	978			
Cold Rolled Strip										
Cold Drawn Bars	45	67	46	41	43	70	51			
Total Carbon Steels	**10,090**	**12,122**	**10,169**	**10,458**	**11,938**	**15,278**	**17,163**	**19,834**	**19,985**	
Special Steel Grades (all products)	832	980	814	753	723	1,046	1,242			
Total Steel Products	**10,922**	**13,102**	**10,983**	**11,211**	**12,661**	**16,324**	**18,405**	**19,834**	**19,985**	

For 1986 and 1987, reporting basis has been changed; major categories of rolled products only are shown, and special steels are not separately identified. Tubes are seamless only.

For 1988-90 see Table 6A

Table 6
Canada

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	266	306	315	191	128	223	228	62	167	
Ingots & Semis for sale	234	508	682	334	620	316	141	208	185	
Railway Track Material	417	376	412	248	262	305	207	241	231	
Structurals and Bar Mill Products:										
Heavy Structurals	834	902	850	437	507	578	694	676	775	
Bars & Light Shapes	1,428	1,164	1,188	868	978	1,262	1,314	1,281	1,410	
Re-inforcing Bars	530	765	681	543	526	475	564	548	656	
Total	**2,792**	**2,831**	**2,719**	**1,848**	**2,011**	**2,315**	**2,572**	**2,505**	**2,841**	
Wire Rods	1,141	1,237	987	898	1,025	1,088	1,048	1,139	1,163	
Hot Rolled Strip (1)										
Plates	1,701	1,773	1,803	1,123	1,015	1,483	1,476	1,403	1,807	
Sheet and Coil:										
Hot Rolled Sheet & Coil	2,557	2,320	2,274	1,999	2,113	2,764	2,740	2,840	2,945	
Cold Rolled Sheet & Coil	1,937	1,849	1,761	1,710	1,784	1,870	1,918	1,889	1,921	
Electrical Sheet (2)										
Galvanised Sheet	1,066	997	951	930	950	1,072	1,212	1,244	1,346	
Other Coated Sheet (2)										
Total	**5,560**	**5,166**	**4,986**	**4,639**	**4,847**	**5,706**	**5,870**	**5,973**	**6,212**	
Tinplate & Black Plate (2)										
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip (2)										
Cold Drawn Bars	119	98	95	68	90	123	119	131	143	
Total Carbon Steels	**12,230**	**12,295**	**11,999**	**9,349**	**9,998**	**11,559**	**11,661**	**11,662**	**12,749**	
Special Steel Grades (all products) (3)										
Total Steel Products	**12,230**	**12,295**	**11,999**	**9,349**	**9,998**	**11,559**	**11,661**	**11,662**	**12,749**	

(1) Included with Hot Rolled Sheet and Coil.
(2) Included with Cold Rolled Sheet and Coil.
(3) Included with Carbon Steel grades.

For 1988-90 see Table 6A

Table 6 **TOTAL DELIVERIES OF STEEL PRODUCTS**

France **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	498	491	343	285	165	140	119	68	31	
Ingots & Semis for sale	260	334	190	269	404	528	813	671	624	
Railway Track Material	322	314	254	254	191	212	217	248	150	
Structurals and Bar Mill Products:										
Heavy Structurals	987	983	938	768	769	727	698	680	671	
Bars & Light Shapes	962	1,000	790	760	741	759	729	631	630	
Re-inforcing Bars	977	738	719	560	548	532	555	479	484	
Total	**2,926**	**2,721**	**2,447**	**2,088**	**2,058**	**2,018**	**1,982**	**1,790**	**1,785**	
Wire Rods	2,143	2,084	2,022	1,564	1,638	1,749	1,938	1,744	1,670	
Hot Rolled Strip	1,192	1,029	836	682	621	552	493	504	371	
Plates	2,112	2,455	2,564	1,540	1,590	1,618	1,675	1,504	1,638	
Sheet and Coil:										
Hot Rolled Sheet & Coil	1,425	1,320	1,462	1,079	1,429	1,611	1,519	1,701	1,850	
Cold Rolled Sheet & Coil	3,372	3,252	3,000	2,189	2,291	2,322	2,441	2,189	2,167	
Electrical Sheet	195	254	211	198	248	235	236	226	226	
Galvanised Sheet	1,101	1,152	1,189	1,141	1,264	1,496	1,597	1,793	1,956	
Other Coated Sheet (1)										
Total	**6,093**	**5,978**	**5,862**	**4,607**	**5,232**	**5,664**	**5,793**	**5,909**	**6,199**	
Tinplate & Black Plate	1,108	1,143	1,008	880	944	965	974	1,016	982	
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**16,654**	**16,549**	**15,526**	**12,169**	**12,843**	**13,446**	**14,004**	**13,454**	**13,450**	
Special Steel Grades (all products)	2,944	3,011	2,862	1,969	2,137	2,658	2,450	2,246	2,318	
Total Steel Products	**19,598**	**19,560**	**18,388**	**14,138**	**14,980**	**16,104**	**16,454**	**15,700**	**15,768**	

(1) Included with Galvanised Sheet.

For 1988-90 see Table 6A

Table 6 **TOTAL DELIVERIES OF STEEL PRODUCTS**

F.R. Germany **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	971	890								
Ingots & Semis for sale	5,610	5,603	6,274	5,241	4,755	6,128	6,698	5,455	5,072	
Railway Track Material	531	456	475	367	306	342	369	285	263	
Structurals and Bar Mill Products:										
Heavy Structurals	2,022	2,209	1,982	1,520	1,524	1,435	1,543	1,463	1,437	
Bars & Light Shapes	3,431	3,186	3,714	3,087	3,035	3,097	3,098	2,890	2,778	
Re-inforcing Bars	1,403	1,246								
Total	**6,856**	**6,641**	**5,696**	**4,607**	**4,559**	**4,532**	**4,641**	**4,353**	**4,215**	
Wire Rods	4,016	3,626	3,234	2,688	2,849	3,067	3,264	3,254	3,352	
Hot Rolled Strip	2,654	2,516	2,334	2,084	2,104	2,093	2,065	2,007	1,956	
Plates	7,661	7,194	5,232	4,415	4,025	4,396	4,831	4,353	3,752	
Sheet and Coil:										
Hot Rolled Sheet & Coil	1,562	1,774	4,467	3,516	3,734	4,699	4,485	4,408	4,777	
Cold Rolled Sheet & Coil	5,619	5,478	5,292	4,803	4,924	4,964	5,051	4,742	5,126	
Electrical Sheet	361	372								
Galvanised Sheet	1,724	1,751	1,808	1,816	1,912	2,149	2,201	2,268	2,627	
Other Coated Sheet										
Total	**9,266**	**9,375**	**11,567**	**10,135**	**10,570**	**11,812**	**11,737**	**11,418**	**12,530**	
Tinplate & Black Plate	858	963	1,017	1,026	1,078	999	1,019	994	1,068	
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**38,423**	**37,264**	**35,829**	**30,563**	**30,246**	**33,369**	**34,624**	**32,119**	**32,208**	
Special Steel Grades (all products)										
Total Steel Products	**38,423**	**37,264**	**35,829**	**30,563**	**30,246**	**33,369**	**34,624**	**32,119**	**32,208**	

Since 1981, semis for tubes are included with Ingots; reinforcing bars are included with other bars; electrical sheet is included in cold rolled sheet; and the figures include all grades.
Galvanised sheet includes other coated sheet.

For 1988-90 see Table 6A

Table 6
Italy

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988*	1989*	1990*
CARBON STEEL GRADES:										
Semis for Seamless Tubes	645	676	523	606	568	545	583	675	676	749
Ingots & Semis for sale	850	825	871	616	658	473	384	...	...	...
Railway Track Material	214	230	217	275	265	260	291	317	293	185
Structurals and Bar Mill Products:										
Heavy Structurals	1,058	883	966	750	646	653	685	734	836	927
Bars & Light Shapes	2,773	2,381	2,592	2,260	2,563	2,349	2,546	3,411	3,596	3,636
Re-inforcing Bars	4,680	3,527	3,359	3,474	3,442	3,884	4,187	4,298	4,955	5,169
Total	**8,511**	**6,791**	**6,917**	**6,484**	**6,651**	**6,886**	**7,418**	**8,443**	**9,387**	**9,732**
Wire Rods	1,317	1,500	1,530	1,750	1,815	1,819	1,811	2,671	2,831	2,813
Hot Rolled Strip	732	552	438	491	322	342	376	407	403	451
Plates	3,074	2,761	2,477	2,841	3,079	2,359	2,208	3,377	3,222	3,058
Sheet and Coil:										
Hot Rolled Sheet & Coil	1,305	1,357	1,423	1,447	1,958	1,773	1,787	1,801	1,990	1,985
Cold Rolled Sheet & Coil	2,345	2,229	2,172	2,149	1,881	2,232	2,099	4,319	4,409	4,134
Electrical Sheet	167	175	196	205	199	201	189	(194)	(206)	(191)
Galvanised Sheet	617	595	653	708	746	846	929	(1312)	(1338)	(1331)
Other Coated Sheet	140	139	64	71	105	157	270	...	...	...
Total	**4,574**	**4,495**	**4,508**	**4,580**	**4,889**	**5,209**	**5,274**	**6,120**	**6,399**	**6,119**
Tinplate & Black Plate	414	427	501	499	476	427	529	(513)	(480)	(448)
Wheels & Axles (rolled & forged)	(51)	(52)	(46)	(39)	(29)	(28)	(33)	...	...	...
Steel Tubes and Fittings	(4299)	(3713)	(3663)	(3837)	(3583)	(3324)	(3515)	(4549)	...	...
Drawn Wire	(638)	(776)	(828)	(849)	(912)	(909)	(985)	(926)	...	...
Cold Rolled Strip	(444)	(461)	(477)	(490)	(459)	(514)	(556)	(617)	...	...
Cold Drawn Bars	(661)	(563)	(592)	(708)	(753)	(782)	(841)	(852)	...	...
Total Carbon Steels	**20,331**	**18,257**	**17,982**	**18,142**	**18,723**	**18,320**	**18,874**	**22,010**	**23,211**	**23,107**
Special Steel Grades (all products) (1)	3,827	3,572	3,009	3,649	3,448	3,255	3,192	(5039)	(4996)	(4580)
Total Steel Products	**24,158**	**21,829**	**20,991**	**21,791**	**22,171**	**21,575**	**22,066**	**22,010**	**23,211**	**23,107**

* - Production not deliveries.
The figures shown in parentheses are not added into totals to avoid double-counting; they cover all grades of products concerned.
(1) ECSC steel products only, i.e. excluding products shown in brackets.

Table 6 **TOTAL DELIVERIES OF STEEL PRODUCTS**

Japan **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes										
Ingots & Semis for sale	293	271	252	221	233	270	238	321	232	
Railway Track Material	545	518	436	496	450	614	596	464	417	
Structurals and Bar Mill Products:										
Heavy Structurals	7,376	7,424	7,519	7,515	7,118	7,409	7,040	6,289	6,902	
Bars & Light Shapes	19,023	18,410	15,969	16,496	16,667	16,935	18,391	17,630	17,777	
Re-inforcing Bars (1)										
Total	**26,399**	**25,834**	**23,488**	**24,011**	**23,785**	**24,344**	**25,431**	**23,919**	**24,679**	
Wire Rods	5,248	5,367	4,096	3,729	4,257	4,562	4,435	4,341	3,973	
Hot Rolled Strip (2)										
Plates	10,762	11,232	10,504	9,596	8,558	9,828	9,826	8,065	7,730	
Sheet and Coil:										
Hot Rolled Sheet & Coil	11,675	11,111	8,829	8,565	9,290	9,174	8,776	8,068	7,824	
Cold Rolled Sheet & Coil	12,393	12,648	11,470	10,962	11,488	11,698	11,549	11,086	10,880	
Electrical Sheet	1,220	1,025	947	1,021	1,181	1,301	1,265	1,301	1,494	
Galvanised Sheet	6,519	6,562	5,940	6,205	6,810	7,709	8,139	8,655	9,892	
Other Coated Sheet	1,119	1,168	1,149	1,186	1,509	1,824	1,875	1,863	2,010	
Total	**32,926**	**32,514**	**28,335**	**27,939**	**30,278**	**31,706**	**31,604**	**30,973**	**32,100**	
Tinplate & Black Plate	1,865	1,886	1,673	1,626	1,608	1,619	1,577	1,525	1,689	
Wheels & Axles (rolled & forged)	97	102	78	65	96	69	54	43	63	
Steel Tubes and Fittings	9,516	9,582	9,563	8,628	7,446	8,281	8,273	7,858	7,116	
Drawn Wire										
Cold Rolled Strip (3)										
Cold Drawn Bars										
Total Carbon Steels	**87,651**	**87,306**	**78,425**	**76,311**	**76,711**	**81,293**	**82,034**	**77,509**	**77,999**	
Special Steel Grades (all products)	12,483	12,915	13,546	13,976	13,430	15,456	16,421	15,094	13,740	
Total Steel Products	**100,134**	**100,221**	**91,971**	**90,287**	**90,141**	**96,749**	**98,455**	**92,603**	**91,739**	

(1) Re-inforcing bars included with Bars & Light Shapes.
(2) Hot rolled strip included with Hot Rolled Sheet & Coil.
(3) Cold rolled strip included with Cold Rolled Sheet & Coil.

For 1988-90 see Table 6A

Table 6 — **TOTAL DELIVERIES OF STEEL PRODUCTS** *

Republic of Korea — **thousand metric tons**

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES										
Semis for Seamless Tubes										
Ingots & Semis for sale										
Railway Track Material	35	27	53	49	75	111	97	102		
Structurals and Bar Mill Products:										
Heavy Structurals										
Bars & Light Shapes (1)	779	637	846	1,087	1,219	1,398	1,539	1,912		
Re-inforcing Bars	1,582	1,986	1,808	2,351	2,756	3,056	3,218	3,591		
Total	**2,361**	**2,623**	**2,654**	**3,438**	**3,975**	**4,454**	**4,757**	**5,503**		
Wire Rods	414	554	587	639	671	715	999	1,083		
Hot Rolled Strip										
Plates	1,433	1,496	1,765	1,812	1,845	1,975	2,016	2,129		
Sheet and Coil:										
Hot Rolled Sheet & Coil (2)	494	582	1,856	2,006	1,855	1,969	1,849	2,294		
Cold Rolled Sheet & Coil										
Electrical Sheet										
Galvanised Sheet	183	190	307	333	425	485	511	603		
Other Coated Sheet	1,245	1,059	1,196	1,036	1,307	1,506	1,460	1,509		
Total	**1,922**	**1,831**	**3,359**	**3,375**	**3,587**	**3,960**	**3,820**	**4,406**		
Tinplate & Black Plate	68	71	84	101	124	149	148	177		
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings	1,096	1,122	1,424	1,297	1,666	1,872	1,881	1,662		
Drawn Wire @	210	198	258	308	398	520	492	567		
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**7,329**	**7,724**	**9,926**	**10,711**	**11,943**	**13,236**	**13,718**	**15,062**		
Special Steel Grades (all products)										
Total Steel Products	**7,329**	**7,724**	**9,926**	**10,711**	**11,943**	**13,236**	**13,718**	**15,062**		

* - Production, not deliveries.

@ - not included in totals to avoid double counting.

(1) - includes all sections

(2) - includes Hot Rolled Strip

For 1987-90 see Table 6A

Table 6
Luxembourg

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989*	1990*
CARBON STEEL GRADES										
Semis for Seamless Tubes										
Ingots & Semis for sale	1,191	1,231	898	908	1,135	671	523	521		
Railway Track Material	200	169	106	124	137	140	116	114	118	116
Structurals and Bar Mill Products:										
Heavy Structurals	1,050	931	825	832	850	902	856	1,013	1,350	1,313
Bars & Light Shapes	287	391	316	353	371	347	290	350	344	320
Re-inforcing Bars	366	319	352	399	423	325	301	301	294	323
Total	**1,703**	**1,641**	**1,493**	**1,584**	**1,644**	**1,574**	**1,447**	**1,664**	**1,988**	**1,956**
Wire Rods	311	268	290	325	304	327	282	251	524	513
Hot Rolled Strip	574	464	465	338	365	299	283	338	318	295
Plates	208	180	179	1						
Sheet and Coil:										
Hot Rolled Sheet & Coil				264	251	195	242	295		
Cold Rolled Sheet & Coil	185	166	154	150	183		148	151	351	344
Electrical Sheet										
Galvanised Sheet	65	72	67	66	65	65	79	78		
Other Coated Sheet			43	183	196	232	278	373		
Total	**250**	**238**	**264**	**663**	**695**	**492**	**747**	**897**	**351**	**344**
Tinplate & Black Plate										
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip					27	33	29	27	(28)	(28)
Cold Drawn Bars										
Total Carbon Steels	**4,437**	**4,191**	**3,695**	**3,943**	**4,307**	**3,536**	**3,427**	**3,812**	**3,299**	**3,224**
Special Steel Grades (all products)	51	51	51	44	37	52	61	87		
Total Steel Products	**4,488**	**4,242**	**3,746**	**3,987**	**4,344**	**3,588**	**3,488**	**3,899**	**3,299**	**3,224**

* - Production not deliveries.

Table 6
Netherlands

TOTAL DELIVERIES OF STEEL PRODUCTS *

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
CARBON STEEL GRADES:										
Semis for Seamless Tubes	0	0	0	0	0	0	0	0	676	749
Ingots & Semis for sale (1)	986	614	849	1,308	1,285	1,335	1,353	1,531	0	0
Railway Track Material	0	0	0	0	0	0	0	0	0	0
Structurals and Bar Mill Products:										
Heavy Structurals	0	0	0	0	0	0	0	0	0	0
Bars & Light Shapes	0	0	0	0	0	0	0	0	0	0
Re-inforcing Bars	234	180	215	226	262	258	284	318	326	338
Total	**234**	**180**	**215**	**226**	**262**	**258**	**284**	**318**	**326**	**338**
Wire Rods	302	269	222	234	228	244	244	254	272	227
Hot Rolled Strip	237	203	230	230	254	257	245	283	297	261
Plates	303	248	214	280	256	237	173	237	275	239
Sheet and Coil:										
Hot Rolled Sheet & Coil	638	641	591	708	703	591	649	611	766	802
Cold Rolled Sheet & Coil	1,602	1,484	1,490	1,546	1,464	1,427	1,448	1,563	1,663	1,722
Electrical Sheet	0	0	0	0	0	0	0	0	0	0
Galvanised Sheet	0	0	0	0	0	0	1	102	(102)	(180)
Other Coated Sheet	0	0	0	0	0	0	0	0	0	0
Total	**2,240**	**2,125**	**2,081**	**2,254**	**2,167**	**2,018**	**2,098**	**2,276**	**2,429**	**2,524**
Tinplate & Black Plate	513	516	525	566	533	484	498	525	(546)	(553)
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**5,310**	**4,634**	**4,837**	**5,602**	**5,510**	**5,367**	**5,396**	**5,940**	**4,275**	**4,338**
Special Steel Grades (all products)										
Total Steel Products	**5,310**	**4,634**	**4,837**	**5,602**	**5,510**	**5,367**	**5,396**	**5,940**	**4,275**	**4,338**

* - Production, not deliveries.
(1) Exports.

Table 6
Portugal

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	0	0	0	0	0	0	0	0	0	
Ingots & Semis for sale	9	5	2	2	13	3	0	9	1	
Railway Track Material	1	3	3	8	3	0	0	3	7	
Structurals and Bar Mill Products:										
Heavy Structurals	16	17	25	27	16	19	27	23	21	
Bars & Light Shapes	81	91	91	103	74	85	91	86	108	
Re-inforcing Bars	334	374	382	399	331	312	262	316	402	
Total	**431**	**482**	**498**	**529**	**421**	**416**	**380**	**425**	**531**	
Wire Rods	88	95	90	86	126	145	207	166	136	
Hot Rolled Strip	0	0	0	0	0	0	0	0	0	
Plates	0	0	0	0	0	0	0	0	0	
Sheet and Coil:										
Hot Rolled Sheet & Coil	0	0	0	0	0	0	0	0	0	
Cold Rolled Sheet & Coil	62	80	61	58	54	56	29	20	52	
Electrical Sheet	0	0	0	0	0	0	0	0	0	
Galvanised Sheet	42	38	36	36	36	62	88	68	87	
Other Coated Sheet	0	0	0	0	0	0	0	0	0	
Total	**104**	**118**	**97**	**94**	**90**	**118**	**117**	**88**	**139**	
Tinplate & Black Plate	61	70	54	65	62	69	56	48	59	
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**694**	**773**	**744**	**784**	**715**	**751**	**760**	**739**	**873**	
Special Steel Grades (all products)	0	0	0	0	0	0	0	0	0	
Total Steel Products	**694**	**773**	**744**	**784**	**715**	**751**	**760**	**739**	**873**	

For 1988-90 see Table 6A

Table 6
Spain

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988*	1989*	1990*
CARBON STEEL GRADES:										
Semis for Seamless Tubes	406	443	385	530	535	402	367	289	300	273
Ingots & Semis for sale	612	786	802	683	1,158	791	811	...	...	...
Railway Track Material	118	98	97	85	57	40	52	82	69	106
Structurals and Bar Mill Products:										
Heavy Structurals	1,563	1,348	1,423	1,393	1,558	1,250	1,252	1,379	1,379	1,366
Bars & Light Shapes	1,545	1,452	1,528	1,609	1,517	1,343	1,349	1,473	1,304	1,182
Re-inforcing Bars	2,177	2,226	2,201	2,869	2,976	2,176	2,229	2,125	2,186	2,326
Total	**5,285**	**5,026**	**5,152**	**5,871**	**6,051**	**4,769**	**4,830**	**4,977**	**4,869**	**4,874**
Wire Rods	525	662	723	968	958	1,081	1,175	1,112	1,204	1,255
Hot Rolled Strip	204	216	223	250	297	320	304	407	385	388
Plates	1,012	749	608	639	576	553	587	671	716	706
Sheet and Coil:										
Hot Rolled Sheet & Coil	769	407	800	992	916	562	818	981	1,207	1,216
Cold Rolled Sheet & Coil	1,092	1,213	1,263	1,197	1,292	1,288	1,320	2,284	2,540	2,658
Electrical Sheet	26	25	20	31	33	17	20	0	0	0
Galvanised Sheet (1)	328	347	374	405	351	383	378	538	669	715
Other Coated Sheet	9	9	11	10	10	29	38	0	0	0
Total	**2,224**	**2,001**	**2,468**	**2,635**	**2,602**	**2,279**	**2,574**	**3,265**	**3,747**	**3,874**
Tinplate & Black Plate (1)	402	436	434	528	392	415	402	404	449	499
Wheels & Axles (rolled & forged)	31	25	19	17	22	0	0	0	0	...
Steel Tubes and Fittings								971	1,053	...
Drawn Wire										
Cold Rolled Strip								221	232	...
Cold Drawn Bars										
Total Carbon Steels	**10,819**	**10,442**	**10,911**	**12,206**	**12,648**	**10,650**	**11,102**	**11,995**	**12,575**	**11,476**
Special Steel Grades (all products)										
Total Steel Products	**10,819**	**10,442**	**10,911**	**12,206**	**12,648**	**10,650**	**11,102**	**11,995**	**12,575**	**11,476**

* - Production not deliveries.
(1) For 1988-90 only, not included in totals to avoid double counting.
(2) Included above.

Table 6
Taiwan (R.O.C.)

TOTAL DELIVERIES OF STEEL PRODUCTS *

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
CARBON STEEL GRADES										
Semis for Seamless Tubes										
Ingots & Semis for sale										
Railway Track Material	4	5	8							1
Structurals and Bar Mill Products:										
Heavy Structurals										
Bars & Light Shapes	550	548	748	754	869	952	1,090	1,153	1,535	1,115
Re-inforcing Bars	1,759	1,852	1,709	2,026	1,532	1,624	1,773	1,999	3,066	5,194
Total	**2,309**	**2,400**	**2,457**	**2,780**	**2,401**	**2,576**	**2,863**	**3,152**	**4,601**	**6,309**
Wire Rods	484	513	608	676	761	922	816	760	721	739
Hot Rolled Strip										
Plates	598	673	579	535	626	678	755	773	759	793
Sheet and Coil:										
Hot Rolled Sheet & Coil		339	1,209	1,220	1,204	1,172	1,070	1,878	2,316	2,329
Cold Rolled Sheet & Coil		88	483	569	534	951	1,106	1,589	1,569	1,411
Electrical Sheet										
Galvanised Sheet @	26	24	12	12	12	13	13	32	137	96
Other Coated Sheet @								35	72	107
Total		**427**	**1,692**	**1,789**	**1,738**	**2,123**	**2,176**	**3,467**	**3,885**	**3,740**
Tinplate & Black Plate @	57	31	41	50	56	36	47	113	87	130
Wheels & Axles (rolled & forged)										
Steel Tubes and Fittings										
Drawn Wire										
Cold Rolled Strip										
Cold Drawn Bars										
Total Carbon Steels	**3,395**	**4,018**	**5,344**	**5,780**	**5,526**	**6,299**	**6,610**	**8,152**	**9,966**	**11,582**
Special Steel Grades (all products)										
Total Steel Products	**3,395**	**4,018**	**5,344**	**5,780**	**5,526**	**6,299**	**6,610**	**8,152**	**9,966**	**11,582**

* - Production, not deliveries.
@ - not added into totals to avoid double counting.
Some of the above products are re-rolled material.

Table 6
United Kingdom

TOTAL DELIVERIES OF STEEL PRODUCTS
(thousand metric tons)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CARBON STEEL GRADES:										
Semis for Seamless Tubes	3	2	13	1				3	6	
Ingots & Semis for sale	630	392	379	476	667	477	668	1,071	1,594	
Railway Track Material	259	161	226	221	262	232	216	174	237	
Structurals and Bar Mill Products:										
Heavy Structurals	1,831	1,314	1,789	1,570	1,551	1,417	1,643	1,705	1,945	
Bars & Light Shapes	1,503	977	956	809	769	803	814	754	782	
Re-inforcing Bars	1,102	781	788	723	823	811	937	903	950	
Total	**4,436**	**3,072**	**3,533**	**3,102**	**3,143**	**3,031**	**3,394**	**3,362**	**3,677**	
Wire Rods	1,452	839	959	795	857	957	948	933	1,013	
Hot Rolled Strip	345	175	165	171	205	215	209	189	216	
Plates	2,220	1,386	1,701	1,599	1,495	1,516	1,541	1,373	1,555	
Sheet and Coil: (1)										
Hot Rolled Sheet & Coil	223	1,325	2,198	2,014	2,286	2,353	2,384	2,473	2,798	
Cold Rolled Sheet & Coil	1,435									
Electrical Sheet	198									
Galvanised Sheet	513									
Other Coated Sheet	353									
Total	**2,722**	**1,325**	**2,198**	**2,014**	**2,286**	**2,353**	**2,384**	**2,473**	**2,798**	
Tinplate & Black Plate	1,152	624	864	911	938	967	910	940	1,074	
Wheels & Axles (rolled & forged)	48									
Steel Tubes and Fittings	1,200	928	1,110	1,085	1,072	1,222	1,154	1,090	1,182	
Drawn Wire										
Cold Rolled Strip	405	291	286	277	275	287	288	286	312	
Cold Drawn Bars	423	304	287	257	257	304	280	271	276	
Total Carbon Steels	**15,295**	**9,499**	**11,721**	**10,909**	**11,457**	**11,561**	**11,992**	**12,165**	**13,940**	
Special Steel Grades (all products)	1,343	892	968	929	805	1,003	1,082	976	1,057	
Total Steel Products	**16,638**	**10,391**	**12,689**	**11,838**	**12,262**	**12,564**	**13,074**	**13,141**	**14,997**	

Reporting basis changed from 1980; figures for 1979 are not comparable.
(1) No breakdown available.

For 1988-90 see Table 6A

Table 6
United States

TOTAL DELIVERIES OF STEEL PRODUCTS
(thousand metric tons)

	All Grades	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
A1	Solids for Seamless Tubes	...	...	...	...	...	...	...	...	...	...
A2	Ingots and Semis	2,417	1,164	910	1,195	1,255	1,353	1,465	1,748	1,890	1,803
B	Railway Track Material	1,142	611	736	1,041	749	510	388	558	510	380
C1	Heavy Sections	4,727	3,232	3,286	3,770	4,263	4,108	4,644	4,726	4,859	5,527
C2	Light Sections	1,336	860	971	1,074	1,206	826	1,080	1,246	1,194	1,109
C3	Reinforcing Bars	4,184	3,673	3,878	4,021	3,925	3,900	4,462	4,619	4,550	4,813
C4	Other Hot Rolled Bars	6,251	4,316	4,653	5,507	5,169	5,124	5,487	5,860	5,716	6,037
C5	Wire Rods	2,758	2,187	2,592	2,803	2,687	3,143	3,484	3,672	3,768	3,924
C6	Drawn Wire (a)	1,647	1,187	1,233	1,109	1,031	980	1,002	973	909	833
C7	Cold Finished Bars	1,480	921	1,070	1,346	1,139	1,140	1,235	1,360	1,335	1,348
C	**Total Long Products**	**22,382**	**16,376**	**17,682**	**19,631**	**19,419**	**19,221**	**21,393**	**22,456**	**22,331**	**23,591**
D1	Hot Rolled Strip	599	452	574	590	532	576	596	1,091	984	628
D2	Hot Rolled Wide Coils (>3mm)	...	...	...	...	...	...	...	...	...	...
D3	Hot Rolled Wide Coils (<3mm)	...	...	...	...	...	...	...	...	...	...
D4	Hot Rolled Plates (>3mm) (b)	6,750	3,761	3,462	3,936	3,926	3,234	3,672	6,648	6,700	7,208
D5	Hot Rolled Plates (<3mm)	12,203	8,212	10,541	11,914	11,750	11,038	11,837	11,421	11,701	12,145
D6	Cold Rolled Plates, Sheets, & Coils	13,060	10,099	12,502	12,396	12,314	12,020	12,573	12,584	12,569	11,974
D7	Cold Rolled Strip	962	657	835	909	795	835	843	854	789	740
D8	Electrical Sheet and Strip	543	404	415	445	375	377	422	475	439	441
D9	Tinplate, TFS and Strip	4,470	3,920	3,908	3,685	3,423	3,448	3,618	3,691	3,734	3,657
D10	Zinc Coated Sheet and Strip	5,373	4,871	5,837	6,132	6,847	7,368	8,248	9,298	9,701	9,021
D11	Other Coated Sheet and Strip	758	630	858	1,006	1,018	1,068	1,114	1,145	1,249	1,142
D	**Total Flat Products**	**44,718**	**33,005**	**38,932**	**41,012**	**40,979**	**39,965**	**42,923**	**47,207**	**47,866**	**46,956**
E1	Steel Tubes, Seamless	9,330	4,560	2,943	3,878	3,716	2,573	3,238	4,031	3,638	4,220
E2	Steel Tubes, Welded (c)										
E	**Total Steel Tubes**	**9,330**	**4,560**	**2,943**	**3,878**	**3,716**	**2,573**	**3,238**	**4,031**	**3,638**	**4,220**
F	Railway Tyres, Wheels and Axles	191	98	66	83	92	71	79	(included in B)		90
T	**Total All Products**	**80,181**	**55,813**	**61,269**	**66,840**	**66,209**	**63,691**	**69,486**	**75,999**	**76,234**	**77,040**
U	Adjustment to Avoid Double Countin										
V	**Net Totals ***	**80,181**	**55,813**	**61,269**	**66,840**	**66,209**	**63,691**	**69,486**	**75,999**	**76,234**	**77,040**
	* of which:										
V1	Stainless Steel Total	1,055	811	1,031	1,132	1,135	1,077	1,286	1,439	1,336	1,375
V2	Other Alloys Total	9,736	6,102	5,583	6,788	6,742	5,948	6,459	4,130	3,758	4,216
	Tool Steel (d)	61	40	42	55	55	51	53	58	61	53

Notes:

a including Wire Products
b including Plates in Coils
c included in E1
d excluded from main table

Due to the introduction of the new Harmonised System of reporting, some of these series are not strictly compatible with those shown on the preceding pages.

Table 6A

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	All Grades	Argentina			Brazil		
		1988	1989*	1990*	1988	1989	1990
A1	Solids for Seamless Tubes	...	...	...	...	...	...
A2	Ingots and Semis	262	527	1,418	6,141	6,843	4,716
B	Railway Track Material	12	14	25	82	18	25
C1	Heavy Sections	75	82	36	204	207	92
C2	Light Sections	52	53	40	271	274	200
C3	Reinforcing Bars	368	343	174	2,196	2,385	2,193
C4	Other Hot Rolled Bars	95	124	145	832	1,013	876
C5	Wire Rods	285	311	379	1,130	917	994
C6	Drawn Wire	136	129	110	1,048	1,207	953
C7	Cold Finished Bars	33	11	23	282	115	100
C	**Total Long Products**	**1,045**	**1,052**	**907**	**5,963**	**6,117**	**5,408**
D1	Hot Rolled Strip	103	95	108	...	...	...
D2	Hot Rolled Wide Coils (>3mm)	522	...	...	1,950	3,049	2,693
D3	Hot Rolled Wide Coils (<3mm)	58	...	...			
D4	Hot Rolled Plates (>3mm)	64	170	336	2,680	2,390	1,911
D5	Hot Rolled Plates (<3mm)	8	687	532	1,395	367	252
D6	Cold Rolled Plates, Sheets, and Coil	834	709	559	2,898	2,687	2,020
D7	Cold Rolled Strip	19	50	28	...	...	...
D8	Electrical Sheet and Strip	...	...	...	75	100	80
D9	Tinplate, TFS and Strip	78	...	...	532	560	394
D10	Zinc Coated Sheet and Strip	...	61	46	369	385	319
D11	Other Coated Sheet and Strip	...	...	...	341	362	246
D	**Total Flat Products**	**1,685**	**1,773**	**1,610**	**10,241**	**9,900**	**7,915**
E1	Steel Tubes, Seamless	399	484	511	278	318	230
E2	Steel Tubes, Welded	...	...	...	...	...	...
E	**Total Steel Tubes**	**399**	**484**	**511**	**278**	**318**	**230**
F	Railway Tyres, Wheels and Axles	6	...	...	...	...	...
T(A..F)	**Total All Products**	**3,409**	**3,851**	**4,472**	**22,704**	**23,197**	**18,292**
U	Adjustment to avoid double counting						
V(T-U)	**Net Totals ***	**3,409**	**3,851**	**4,472**	**22,704**	**23,197**	**18,292**
	* of which:						
V1	Stainless Steel Total	5	...	...	133	138	130
V2	Other Alloys Total	246	...	...	560	797	671

* - production not deliveries

Due to the introduction of the new Harmonised System of reporting, some of these series are not strictly compatible with those shown on the preceding pages.

Table 6A

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	All Grades	Canada			P.R. China*		
		1988	1989	1990	1988	1989	1990
A1	Solids for Seamless Tubes	188	78	63	...	...	...
A2	Ingots and Semis	205	221	416	...	...	...
B	Railway Track Material	184	174	105	1,238	1,225	1,266
C1	Heavy Sections	761	692	563	3,675	3,543	3,607
C2	Light Sections	209	141	120			}
C3	Reinforcing Bars	651	746	708	16,042	16,181	16,753 }
C4	Other Hot Rolled Bars	1,248	1,228	1,018			}
C5	Wire Rods	1,160	1,181	1,029 }	7,982	8,822	9,989
C6	Drawn Wire			}	...	...	...
C7	Cold Finished Bars	155	126	114	...	...	...
C	**Total Long Products**	**4,184**	**4,114**	**3,552**	**27,699**	**28,546**	**30,349**
D1	Hot Rolled Strip			}			}
D2	Hot Rolled Wide Coils (>3mm)	2,835	3,239	2,620 }	1,388	1,508	1,689 }
D3	Hot Rolled Wide Coils (<3mm)			}			}
D4	Hot Rolled Plates (>3mm)	2,295	2,140	1,937	6,007	6,512	6,839
D5	Hot Rolled Plates (<3mm)		included in D2		5,157	5,244	5,524 }
D6	Cold Rolled Plates, Sheets, and Coil			}			}
D7	Cold Rolled Strip	1509	1,439	1207 }	...	...	...
D8	Electrical Sheet and Strip			}	603	642	673
D9	Tinplate, TFS and Strip	458	460	416	...	...	...
D10	Zinc Coated Sheet and Strip	1,402	1,462	1,247	...	...	...
D11	Other Coated Sheet and Strip		included in D7		...	246	740 a
D	**Total Flat Products**	**8,499**	**8,740**	**7,427**	**13,155**	**14,152**	**15,465**
E1	Steel Tubes, Seamless		included in A1		1,783	1,941	2,112
E2	Steel Tubes, Welded		included in D		2,242	2,142	2,208
E	**Total Steel Tubes**				**4,025**	**4,083**	**4,320**
F	Railway Tyres, Wheels and Axles	...	...	...	...	...	...
T(A..F)	**Total All Products**	**13,260**	**13,327**	**11,563**	**46,890**	**48,590**	**51,532** b
U	Adjustment to avoid double counting						
V(T-U)	**Net Totals** *	**13,260**	**13,327**	**11,563**	**46,890**	**48,590**	**51,532**
	* of which:						
V1	Stainless Steel Total	...	...	...	4,859	4,805	4,568 }
V2	Other Alloys Total	...	...	...			}

* - production not deliveries.

Notes:

a - 'Other Steel Products'.

b - not equal to sum of categories.

Table 6A

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	All Grades	France			F.R. Germany		
		1988	**1989**	**1990**	**1988**	**1989**	**1990**
A1	Solids for Seamless Tubes	169	164	152	2,693	2,478	2,099
A2	Ingots and Semis	749	684	725	2,942	2,544	2,270
B	Railway Track Material	187	156	181	259	224	217
C1	Heavy Sections	757	740	694	1,672	1,721	1,723
C2	Light Sections	1,196	209	173	2,048	2,047	1,942
C3	Reinforcing Bars	750	865	881	942	892	865
C4	Other Hot Rolled Bars	a	825	987	included in C2		
C5	Wire Rods	2,140	2,124	2,076	3,820	3,915	3,726
C6	Drawn Wire	...	...	...	...	...	...
C7	Cold Finished Bars	...	...	...	...	...	...
C	**Total Long Products**	**4,843**	**4,763**	**4,813**	**8,482**	**8,575**	**8,256**
D1	Hot Rolled Strip	455	436	386	2,169	2,344	2,238
D2	Hot Rolled Wide Coils (>3mm)	1,449	1,495	1,526	5,355	5,831	5,373
D3	Hot Rolled Wide Coils (<3mm)	1,952	1,784	1,523	...	...	...
D4	Hot Rolled Plates (>3mm)	1,172	1,192	1,099	3,904	4,028	3,420
D5	Hot Rolled Plates (<3mm)	79	98	74	102	60	53
D6	Cold Rolled Plates, Sheets, and Coil	2,672	2,569	2,457	4,907	5,125	4,663
D7	Cold Rolled Strip	...	...	...	...	...	...
D8	Electrical Sheet and Strip	254	281	235	460	505	472
D9	Tinplate, TFS and Strip	1,009	964	960	1,161	1,193	1,184
D10	Zinc Coated Sheet and Strip	2,257	2,303	2,458 }	2,976	3,179	3,201
D11	Other Coated Sheet and Strip			}	...	...	...
D	**Total Flat Products**	**11,298**	**11,122**	**10,719**	**21,034**	**22,265**	**20,604**
E1	Steel Tubes, Seamless	...	...	...	...	...	...
E2	Steel Tubes, Welded	...	...	...	...	...	...
E	**Total Steel Tubes**	**...**	**...**	**...**	**...**	**...**	**...**
F	Railway Tyres, Wheels and Axles	...	...	...	...	...	...
T(A..F)	**Total All Products**	**17,246**	**16,889**	**16,590**	**35,410**	**36,086**	**33,446**
U	Adjustment to avoid double counting						
V(T-U)	**Net Totals ***	**17,246**	**16,889**	**16,590**	**35,410**	**36,086**	**33,446**
	* of which:						
V1	Stainless Steel Total	622	578	628	994	963	1,042
V2	Other Alloys Total	879	989	905	1,995	2,126	1,989

Notes:
a - C4 included in C2

Table 6A

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	All Grades	Indonesia*			Japan		
		1988	1989	1990	1988	1989	1990
A1	Solids for Seamless Tubes	...	...	...	...	...	...
A2	Ingots and Semis	...	...	...	...	...	...
B	Railway Track Material	...	...	...	395	342	385
C1	Heavy Sections	87	94	176	7,299	8,798	10,210
C2	Light Sections			}	11,904	12,723	13,139
C3	Reinforcing Bars	841	928	1,391 }			}
C4	Other Hot Rolled Bars			}	12,035	12,669	13,821 }
C5	Wire Rods	452	449	537]	7,501	7,392	7,311
C6	Drawn Wire			]	4,125	4,264	4,379
C7	Cold Finished Bars	...	...	...	1,280	1,341	1,396
C	**Total Long Products**	**1,380**	**1,471**	**2,104**	**44,144**	**47,187**	**50,256**
D1	Hot Rolled Strip			}			}
D2	Hot Rolled Wide Coils (>3mm)	944	1,300	1,325 }	9,055	9,027	8,782 }
D3	Hot Rolled Wide Coils (<3mm)			}			}
D4	Hot Rolled Plates (>3mm)	...	...	...	9,108	9,856	10,213
D5	Hot Rolled Plates (<3mm)	...	...	...	226	208	162
D6	Cold Rolled Plates, Sheets, and Coil	328	458	439	12,317	11,701	10,390
D7	Cold Rolled Strip	...	...	...	569	587	587
D8	Electrical Sheet and Strip	...	...	...	1,684	1,611	1,479
D9	Tinplate, TFS and Strip	...	...	...	1,783	1,744	1,719
D10	Zinc Coated Sheet and Strip	149	145	159	10,803	11,727	12,287
D11	Other Coated Sheet and Strip	...	...	...	2,051	2,026	2,074
D	**Total Flat Products**	**1,421**	**1,903**	**1,923**	**47,596**	**48,487**	**47,693**
E1	Steel Tubes, Seamless	...	...	...	2,886	...	...
E2	Steel Tubes, Welded	...	...	...	8,077	...	...
E	**Total Steel Tubes**	**244**	**274**	**327**	**10,963**	**11,013**	**10,358**
F	Railway Tyres, Wheels and Axles	...	...	...	34	40	51
T(A..F)	**Total All Products**	**3,045**	**3,648**	**4,354**	**103,132**	**107,069**	**108,743**
U	Adjustment to avoid double counting				5,405	5,605	5,776
V(T-U)	**Net Totals ***	**3,045**	**3,648**	**4,354**	**97,727**	**101,464**	**102,967**
	* of which:						
V1	Stainless Steel Total	...	...	...	...	...	...
V2	Other Alloys Total	...	...	...	...	...	...

* - production not deliveries.

Table 6A

TOTAL DELIVERIES OF STEEL PRODUCTS

thousand metric tons

	All Grades	R.o.Korea*				Portugal		
		1987	1988	1989	1990	1988	1989	1990
A1	Solids for Seamless Tubes	...	...	...	...	...	...	...
A2	Ingots and Semis	...	...	...	...	2	1	1
B	Railway Track Material	125	93	60	78	10	0	0
C1	Heavy Sections	1,305	1,469	1,593	1,823 }	27	27	21
C2	Light Sections				}	55	104	90
C3	Reinforcing Bars	3,401	3,605	4,080	4,722	458	440	413
C4	Other Hot Rolled Bars	879	993	972	1,157	46	...	...
C5	Wire Rods	1,152	1,161	1,598	1,658	108	99	106
C6	Drawn Wire	(619)	(708)	(694)	(757) a	...	...	...
C7	Cold Finished Bars		included in C4			...	...	...
C	**Total Long Products**	**6,737**	**7,227**	**8,243**	**9,360**	**694**	**670**	**629**
D1	Hot Rolled Strip	58	48	48	}	...	...	...
D2	Hot Rolled Wide Coils (>3mm)	2,428	3,038	3,459	4,162 }	...	...	...
D3	Hot Rolled Wide Coils (<3mm)				}	...	...	...
D4	Hot Rolled Plates (>3mm)	2,381	2,311	2,262	2,717	...	...	...
D5	Hot Rolled Plates (<3mm)	483	538	455	}	0	0	0
D6	Cold Rolled Plates, Sheets, and Coil	1,762	1,896	2,732	3,075 }	89	72	64
D7	Cold Rolled Strip	71	103	110	}	...	...	...
D8	Electrical Sheet and Strip	113	140	153	}	...	...	...
D9	Tinplate, TFS and Strip	225	244	273	317	59	52	55
D10	Zinc Coated Sheet and Strip	911	786	1,204	1,779	75	98	107
D11	Other Coated Sheet and Strip	26	28	25	...	...	...	...
D	**Total Flat Products**	**8,459**	**9,133**	**10,720**	**12,050**	**224**	**221**	**226**
E1	Steel Tubes, Seamless	...	...	...	...	...	...	...
E2	Steel Tubes, Welded	...	...	...	...	...	...	...
E	**Total Steel Tubes**	**1,883**	**2,112**	**2,410**	**2,657**	**...**	**...**	**...**
F	Railway Tyres, Wheels and Axles	302	322	323	...	...	...	...
T(A..F)	**Total All Products**	**17,507**	**18,887**	**21,756**	**24,145**	**929**	**892**	**856**
U	Adjustment to avoid double counting							
V(T-U)	**Net Totals ***	**17,507**	**18,887**	**21,756**	**24,145**	**929**	**892**	**856**
	* of which:							
V1	Stainless Steel Total	...	...	...	...	...	...	...
V2	Other Alloys Total	...	...	...	...	...	...	...

* - production not deliveries.

Notes:

a - not included in totals to avoid double counting.

Table 6A **TOTAL DELIVERIES OF STEEL PRODUCTS**

thousand metric tons

	All Grades	Sweden			United Kingdom		
		1988	1989	1990	1988	1989	1990
A1	Solids for Seamless Tubes	...	...	...	533	471	438
A2	Ingots and Semis	521	417	269	1,904	1,726	1,480
B	Railway Track Material	45	46	41	220	231	235
C1	Heavy Sections	159	158	141 }	2,228	2,253	2,303
C2	Light Sections			}	346	321	345
C3	Reinforcing Bars	246	259	285	715	720	691
C4	Other Hot Rolled Bars	553	488	439	944	1,065	1,059
C5	Wire Rods	224	97	74	1,813	1,914	1,898
C6	Drawn Wire	44	30	23	...	...	...
C7	Cold Finished Bars	100	102	86	342	340	318
C	**Total Long Products**	**1,326**	**1,134**	**1,048**	**6,387**	**6,613**	**6,614**
D1	Hot Rolled Strip	128	116	110	352	350	284
D2	Hot Rolled Wide Coils (>3mm)	260	331	416 }	3,058	3,119	2,918 }
D3	Hot Rolled Wide Coils (<3mm)			}			}
D4	Hot Rolled Plates (>3mm)	729	767	743]			}
D5	Hot Rolled Plates (<3mm)			]			}
D6	Cold Rolled Plates, Sheets, and Coil	544	538	523	3,641	3,728	3,560 a
D7	Cold Rolled Strip	123	122	114	404	398	366
D8	Electrical Sheet and Strip	included in D6					a
D9	Tinplate, TFS and Strip			}	1,042	976	860
D10	Zinc Coated Sheet and Strip	380	433	419 }			a
D11	Other Coated Sheet and Strip			}			a
D	**Total Flat Products**	**2,164**	**2,307**	**2,325**	**8,497**	**8,571**	**7,987**
E1	Steel Tubes, Seamless	179	175	144	364	397	377
E2	Steel Tubes, Welded	94	79	87	1,117	1,122	1,088
E	**Total Steel Tubes**	**273**	**254**	**231**	**1,482**	**1,519**	**1,465**
F	Railway Tyres, Wheels and Axles	...	...	...	...	...	...
T(A..F)	**Total All Products**	**4,329**	**4,156**	**3,914**	**19,023**	**19,131**	**18,219**
U	Adjustment to avoid double counting				2,342	2,252	2,139
V(T-U)	**Net Totals ***	**4,329**	**4,156**	**3,914**	**16,681**	**16,879**	**16,080**
	* of which:						
V1	Stainless Steel Total	336	315	318	362	313	325
V2	Other Alloys Total	770	781	707	900	893	812

Notes:

a - D8, D10, and D11 included in D6.

Table 7 **EXPORTS OF SEMI-FINISHED & FINISHED STEEL PRODUCTS**

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Belgium-Luxembourg	12,638	10,841	11,257	12,586	12,634	11,760	12,388	14,198	14,205	14,043	
Denmark	586	475	799	640	543	577	618	645	640	605	
France	11,416	9,393	9,529	11,187	11,408	10,966	11,039	11,338	11,485	11,362	
F.R. Germany	19,318	17,308	16,675	18,910	20,690	18,689	18,885	18,977	19,878	19,076	
Greece	377	291	487	705	708	723	630	542	884	775	
Ireland	36	55	113	143	187	191	213	245	316	313	
Italy	8,234	6,991	7,367	7,779	8,007	7,247	7,234	6,775	7,743	7,977	
Netherlands	4,908	4,004	4,231	5,105	5,137	5,166	5,215	5,600	5,763	5,697	
Portugal	20	32	166	229	327	243	161	119	147	204	
Spain	5,027	4,884	5,685	6,541	7,781	5,195	4,776	3,899	4,458	4,148	
United Kingdom	3,934	3,519	4,083	4,138	4,893	5,289	6,450	6,676	6,735	7,091	
E.C. Total	**66,494**	**57,793**	**60,392**	**67,963**	**72,315**	**66,046**	**67,608**	**69,013**	**72,254**	**71,291**	
Austria	2,702	2,455	2,705	3,193	3,185	2,809	3,053	3,076	3,111	2,172	
Finland	1,027	868	1,070	1,143	1,333	1,274	1,540	1,424	1,469	1,636	
Norway	665	567	704	733	754	570	760	718	650	552	
Sweden	2,011	2,230	2,326	2,826	3,089	2,867	2,854	2,915	2,809	2,747	
Switzerland	564	594	893	924	913	908	860	850	870	906	
Turkey	125	174	1,051	1,388	2,720	2,633	2,177	2,805	3,343	3,811	
Yugoslavia	264	371	571	895	1,135	916	1,711	1,878	1,028	1,666	
Other Western Europe	**7,358**	**7,259**	**9,320**	**11,102**	**13,129**	**11,977**	**12,955**	**13,666**	**13,280**	**13,490**	
Total Western Europe	**73,852**	**65,052**	**69,712**	**79,065**	**85,444**	**78,023**	**80,563**	**82,679**	**85,534**	**84,781**	
Canada	3,575	3,193	2,681	3,087	3,207	3,461	3,819	3,687	3,715	3,799	
United States	2,634	1,671	1,087	889	845	843	1,024	1,877	4,153	3,903	
Japan	28,456	28,641	30,875	31,929	31,527	28,707	25,217	23,304	19,743	16,631	
Australia	1,549	1,313	1,294	900	1,400	1,203	1,115	790	1,066	1,970	
New Zealand	45	87	120	150	150	150	140	72	312	350	E
South Africa	1,630	1,985	1,739	1,708	2,899	3,164	2,636	2,145	1,842	2,947	
Total Industrial Cts.	**111,741**	**101,942**	**107,508**	**117,729**	**125,472**	**115,550**	**114,514**	**114,554**	**116,365**	**114,381**	
Argentina	608	789	677	537	1,111	1,175	1,064	1,569	2,248	1,966	
Brazil	1,864	2,388	5,132	6,464	7,109	6,139	6,546	10,916	10,771	8,986	
Chile	5	163	146	99	100	127	94	65	14	139	
Colombia	4	0	0	0	0	0	0	0	6	10	E
Costa Rica	17	7	0	8	9	14	14	22	23	25	E
El Salvador	2	1	0	0	0	1	1	1	1	1	E
Guatemala	19	19	16	11	8	9	10	10	10	10	E
Honduras	1	1	1	0	0	0	0	0	0	0	E
Mexico	42	293	1,004	894	433	1,164	1,173	1,167	1,321	1,404	
Nicaragua	3	2	11	9	4	6	6	6	6	6	E
Panama	0	0	0	0	0	0	0	1	0	0	E
Peru	0	8	15	2	19	2	0	0	4	2	
Trinidad & Tobago	0	95	136	110	86	146	153	165	177	200	E
Uruguay	4	1	1	1	1	14	10	8	14	15	E
Venezuela	389	293	852	801	1,266	913	1,041	824	960	1,243	
Others	5	2	10	9	6	16	30	15	15	15	E
Total Latin America	**2,963**	**4,062**	**7,999**	**8,945**	**10,153**	**9,726**	**10,143**	**14,769**	**15,570**	**14,022**	

Table 7
(continued)

EXPORTS OF SEMI-FINISHED & FINISHED STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Egypt	31	14	33	11	17	38	61	66	70	100 E
Tunisia	6	7	2	9	15	28	25	30	49	42
Zimbabwe	319	381	383	318	356	364	320	323	336	305
Total Africa	**356**	**402**	**418**	**338**	**388**	**430**	**406**	**419**	**455**	**447**
Israel	25	4	2	3	39	16	15	15	15	20 E
Jordan	5	7	2	4	5	5	5	5	5	5 E
Kuwait	210	305	176	104	100	100	100	100	100	75 E
Qatar	450	393	395	443	480	480	480	480	480	541
Saudi Arabia				100	400	420	550	380	400	668
Total Middle East	**690**	**709**	**575**	**654**	**1,024**	**1,021**	**1,150**	**980**	**1,000**	**1,309**
Hong Kong	115	125	307	630	893	719	800	850	850	900 E
India	0	11	25	154	15	27	50	113	221	306
Indonesia	16	2	0	50	111	225	665	807	629	297
Republic of Korea	4,663	5,546	5,639	5,848	5,650	5,860	6,040	6,992	7,346	7,230
Malaysia	19	21	28	84	72	75	75	75	75	75 E
Philippines	8	1	3	0	4	1	4	5	15	30 E
Singapore	412	426	316	409	369	411	465	585	680	646
Taiwan (R.O.C.)	1,193	1,850	2,090	1,951	1,885	1,443	1,102	1,656	1,596	1,754
Thailand	82	41	38	69	148	150	150	150	200	200 E
Total Asia	**6,508**	**8,023**	**8,446**	**9,195**	**9,147**	**8,911**	**9,351**	**11,233**	**11,612**	**11,438**
Total Developing Cts.	**10,517**	**13,196**	**17,438**	**19,132**	**20,712**	**20,088**	**21,050**	**27,401**	**28,637**	**27,215**
Total Western World	**122,258**	**115,138**	**124,947**	**136,861**	**146,183**	**135,638**	**135,565**	**141,954**	**145,002**	**141,596**
Bulgaria	1,073	933	896	1,039	920	959	792	528	675	439
Czechoslovakia	3,407	3,299	3,518	3,776	3,893	3,980	4,128	4,027	3,803	3,715
German Dem. Rep.	3,139	2,893	4,245	4,208	4,094	4,278	4,882	4,650	3,102	3,355
Hungary	1,112	1,021	1,135	1,423	1,268	1,292	1,231	1,550	1,350	1,780
Poland	1,667	1,639	2,336	2,296	2,187	2,234	2,257	2,348	2,382	2,458
Romania	2,083	1,901	2,175	2,779	2,932	3,060	3,100	3,100	3,383	1,902
U.S.S.R.	7,089	7,575	5,320	5,473	8,738	9,305	9,118	9,248	9,120	8,480
Total Eastern Europe	**19,570**	**19,261**	**19,625**	**20,993**	**24,032**	**25,108**	**25,508**	**25,451**	**23,816**	**22,129**
China	617	1,101	492	203	181	198	277	159	780	2,090
Total C.P.E.s	**20,187**	**20,362**	**20,117**	**21,196**	**24,213**	**25,306**	**25,785**	**25,610**	**24,596**	**24,219**
World Total	**142,445**	**135,500**	**145,064**	**158,057**	**170,396**	**160,944**	**161,349**	**167,564**	**169,598**	**165,815**

E - estimate

Table 8

IMPORTS OF SEMI-FINISHED & FINISHED STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	2,777	2,771	3,256	3,536	3,518	3,509	3,780	5,126	4,673	4,632
Denmark	1,442	1,713	1,447	1,548	1,690	1,629	1,503	1,595	1,699	1,702
France	8,233	8,371	7,576	8,173	7,900	7,996	8,469	9,422	9,898	10,520
F.R. Germany	11,743	10,519	11,924	11,635	12,214	12,942	12,543	14,054	15,106	15,268
Greece	1,095	982	1,539	1,262	1,404	1,453	1,494	1,400	1,768	1,967
Ireland	452	424	334	369	361	328	358	435	490	484
Italy	4,859	4,848	4,787	5,760	6,241	6,957	7,776	9,076	10,073	10,687
Netherlands	3,457	3,400	3,231	3,767	4,057	4,136	3,822	4,630	4,903	5,176
Portugal	624	979	652	642	695	672	841	1,237	2,357	1,951
Spain	1,138	1,500	1,081	1,133	1,452	2,588	2,432	2,696	3,168	3,395
United Kingdom	3,399	3,925	3,429	3,646	3,865	4,233	4,391	5,225	5,500	5,405
E.C. Total	**39,219**	**39,432**	**39,256**	**41,471**	**43,397**	**46,443**	**47,409**	**54,896**	**59,635**	**61,187**
Austria	905	864	895	996	1,041	1,211	1,169	1,343	1,471	1,711
Finland	622	661	624	616	704	687	809	688	889	862
Norway	1,135	1,251	1,037	1,140	1,163	1,184	1,103	1,077	1,080	1,291
Sweden	1,724	1,915	1,820	1,959	1,754	1,841	1,938	2,117	2,136	2,070
Switzerland	1,795	1,572	1,821	2,026	2,035	2,087	2,160	2,163	2,490	2,358
Turkey	868	905	1,408	2,203	3,070	2,155	1,897	1,589	2,815	2,153
Yugoslavia	2,040	1,552	1,547	1,548	1,663	2,142	3,442	2,471	1,356	1,356
Others	132	160	149	165	167	225	197	270	240	250 E
Other Western Europe	**9,221**	**8,880**	**9,301**	**10,653**	**11,597**	**11,532**	**12,715**	**11,718**	**12,477**	**12,051**
Total Western Europe	**48,440**	**48,312**	**48,557**	**52,124**	**54,994**	**57,975**	**60,124**	**66,614**	**72,112**	**73,238**
Canada	3,012	1,198	1,288	1,924	2,382	2,157	2,763	3,821	2,631	2,806
United States	18,051	15,116	15,486	23,735	22,004	18,772	18,520	18,952	15,713	15,575
Japan	1,557	2,011	2,744	4,003	2,903	3,308	4,981	6,871	7,250	7,127
Australia	800	900	600	700	700	600	910	842	766	545
New Zealand	468	544	559	600	550	460	530	486	301	300 E
South Africa	161	168	179	243	125	91	114	191	178	148
Total Industrial Cts.	**72,489**	**68,249**	**69,412**	**83,329**	**83,658**	**83,362**	**87,941**	**97,777**	**98,951**	**99,738**
Argentina	655	609	654	899	461	554	765	990	631	267
Bolivia	112	55	29	51	32	35	72	73	75	75 E
Brazil	898	421	85	102	102	566	520	113	305	193
Chile	67	41	25	71	76	167	174	167	196	311
Colombia	490	565	394	530	604	480	416	492	560	350
Costa Rica	95	60	97	133	138	110	53	134	178	200 E
Dominican Republic	64	129	67	104	52	62	78	52	154	180 E
Ecuador	290	272	120	240	344	237	146	192	272	300 E
El Salvador	46	37	43	55	54	65	45	48	51	60 E
Guatemala	136	105	96	94	101	107	83	95	100	120 E
Honduras	49	34	51	50	58	45	37	38	39	40 E
Mexico	3,052	1,217	429	701	680	518	340	531	705	1,049
Nicaragua	43	75	70	43	90	90	99	104	107	110 E
Panama	84	83	67	72	81	83	82	32	29	30 E
Paraguay	26	37	37	27	31	35	38	40	43	50 E
Peru	330	158	49	118	135	62	74	120	100	71
Trinidad and Tobago	126	177	94	90	98	74	82	86	91	100 E
Uruguay	77	50	28	39	26	63	102	68	81	90 E
Venezuela	854	932	259	211	151	238	403	389	148	226
Others	247	216	195	302	190	162	155	207	183	200 E
Total Latin America	**7,742**	**5,274**	**2,889**	**3,932**	**3,503**	**3,754**	**3,763**	**3,972**	**4,049**	**4,022**

Table 8
(continued)

IMPORTS OF SEMI-FINISHED & FINISHED STEEL PRODUCTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	1,537	1,351	1,391	1,561	1,482	1,500	1,250	1,250	1,300	1,300 E
Egypt	966	1,123	1,353	1,225	1,980	4,016	2,144	2,200	2,300	2,300 E
Kenya	132	97	161	171	218	150	232	186	179	172
Libyan Arab Republic	1,044	375	551	309	490	282	361	400	486	401
Morocco	489	617	540	683	649	448	494	517	603	518
Nigeria (E:1988-91)	3,869	3,342	1,527	1,227	2,153	2,160	2,423	2,200	2,200	2,200 E
Tanzania	32	66	70	58	56	42	51	50	55	50
Tunisia	323	433	421	317	309	278	256	382	353	449
Zaire	51	52	50	73	24	19	27	59	46	27
Zambia	12	9	8	11	23	24	2	5	5	5 E
Zimbabwe	50	126	102	62	109	113	80	100	100	100 E
Other Africa	950	500	750	1,000	1,000	800	600	600	600	600 E
Total Africa	**9,455**	**8,091**	**6,924**	**6,697**	**8,493**	**9,832**	**7,920**	**7,949**	**8,228**	**8,121**
Bahrain	47	89	117	105	94	51	25	33	40	27
Iran	1,887	3,114	4,392	3,250	4,532	3,036	4,147	3,100	3,600	4,900
Iraq	1,208	955	1,000	750	852	394	579	580	782	650 E
Israel	394	427	346	422	437	506	600	600	650	700 E
Jordan	362	324	371	306	249	359	332	350	350	350 E
Kuwait	805	929	767	1,059	406	443	204	229	145	105
Lebanon	287	315	340	443	320	166	97	100	100	100 E
Oman	194	261	256	387	452	246	250	250	250	250 E
Qatar	101	108	70	39	104	98	100	100	100	100 E
Saudi Arabia	3,198	5,307	4,645	3,311	2,681	2,180	1,580	2,590	1,450	1,571
Syrian Arab Republic	434	768	404	737	980	181	104	94	110	123
Other	1,700	1,500	2,500	2,500	2,500	1,500	1,000	1,000	1,000	1,000 E
Total Middle East	**10,617**	**14,097**	**15,208**	**13,309**	**13,607**	**9,160**	**9,018**	**9,026**	**8,577**	**9,876**
Bangladesh	288	122	142	225	320	278	257	299	268	271
Hong Kong	1,707	1,825	1,805	2,063	2,393	2,553	1,790	2,760	1,777	1,787 E
India	2,706	2,463	1,727	1,569	2,166	2,455	2,004	1,899	1,950	2,100 E
Indonesia	2,091	2,063	1,614	1,328	986	1,193	1,140	1,400	1,175	1,934
Republic of Korea	2,115	1,345	2,144	2,934	2,632	2,909	3,761	3,382	3,806	5,570
Malaysia	1,277	1,826	1,974	1,877	1,454	1,066	1,120	1,101	1,368	1,500 E
Pakistan	551	1,110	1,115	768	775	700	600	600	600	600 E
Philippines	784	1,218	1,238	533	346	549	1,070	844	1,215	1,900
Singapore	1,974	2,256	2,400	2,040	1,697	1,625	1,681	2,205	2,399	2,728
Taiwan (R.O.C.)	2,266	1,665	1,341	1,507	1,441	2,396	3,536	5,667	5,942	5,683
Thailand	1,369	1,847	2,457	1,733	2,145	1,769	2,038	2,462	2,834	3,136
Other	910	850	800	950	980	1,000	1,250	1,300	1,300	1,300 E
Total Asia	**18,038**	**18,590**	**18,757**	**17,527**	**17,335**	**18,493**	**20,246**	**23,919**	**24,634**	**28,509**
Total Developing Cts.	**45,852**	**46,053**	**43,778**	**41,464**	**42,938**	**41,238**	**40,948**	**44,865**	**45,488**	**50,529**
Total Western World	**118,342**	**114,302**	**113,191**	**124,794**	**126,597**	**124,600**	**128,889**	**142,642**	**144,438**	**150,267**
Albania	80	121	120	120	120	120	120	120	120	120 E
Bulgaria (E: 1988)	1,477	1,378	1,262	1,123	1,029	1,003	883	800	674	1,460
Czechoslovakia	356	366	530	751	835	918	692	512	308	221
German Dem. Rep.	4,736	5,035	5,744	5,097	5,169	5,183	5,487	5,250	5,100	3,210
Hungary	1,115	1,022	1,096	1,069	1,041	1,111	1,075	1,170	940	1,355
Poland	1,396	1,330	1,240	1,295	1,363	1,324	1,219	1,271	1,056	236
Romania	977	915	978	683	840	1,335	1,199	1,271	501	562
U.S.S.R. (E)	8,921	10,083	9,302	9,514	10,713	10,100	10,000	10,500	10,200	10,000 E
Total Eastern Europe	**19,058**	**20,250**	**20,272**	**19,652**	**21,110**	**21,094**	**20,675**	**20,894**	**18,899**	**17,164**
Cuba	550	450	475	540	590	590	600	600	600	500 E
China	3,319	3,938	9,780	13,315	19,635	19,379	12,273	8,718	8,197	4,000
Other Asian C.P.E.s	450	450	500	500	500	500	500	500	500	500 E
Total C.P.E.s	**23,377**	**25,088**	**31,027**	**34,007**	**41,835**	**41,563**	**34,048**	**30,712**	**28,196**	**22,164**
World Total	**141,719**	**139,390**	**144,218**	**158,801**	**168,432**	**166,163**	**162,937**	**173,354**	**172,635**	**172,431**

E - estimate

Table 9

WORLD STEEL TRADE AS A PERCENTAGE OF WORLD STEEL PRODUCTION

million metric tons

Crude Steel Equivalent

Year	Exports	Production	Exports Percent
1970	117.5	595.3	19.7
1971	125.5	582.3	21.6
1972	133.0	630.5	21.1
1973	147.5	696.4	21.2
1974	171.2	703.4	24.3
1975	149.2	643.5	23.2
1976	164.9	675.2	24.4
1977	166.1	675.2	24.6
1978	180.6	716.5	25.2
1979	186.1	746.7	24.9
1980	183.0	716.2	25.6
1981	185.2	707.0	26.2
1982	176.2	645.0	27.3
1983	188.6	663.5	28.4
1984	205.5	710.1	28.9
1985	221.5	718.9	30.8
1986	209.2	713.5	29.3
1987	209.8	736.4	28.5
1988	217.8	780.0	27.9
1989	220.5	786.2	28.0
1990	215.6	769.9	28.0

Finished Steel

Year	Exports	Production	Exports Percent
1975	114.8	492.1	23.3
1976	126.8	521.9	24.3
1977	127.8	534.3	23.9
1978	139.0	567.2	24.5
1979	143.2	597.2	24.0
1980	140.8	579.8	24.3
1981	142.4	566.0	25.2
1982	135.5	534.9	25.3
1983	145.1	547.2	26.5
1984	158.1	576.2	27.4
1985	170.4	597.4	28.5
1986	160.9	605.8	26.6
1987	161.3	623.7	25.9
1988	167.6	662.0	25.3
1989	169.6	671.7	25.3
1990	165.8	662.5	25.0

In the upper table, total exports of semi-finished and finished steel products were multiplied by 1.3 to obtain the crude steel figures shown in the left-hand column. However, using a constant 1.3 makes no allowance for yield improvement, thus leading to increasing overstatement of the export share. In the lower table, both exports and production are shown in finished weight product, giving a more realistic export share.

Table 10

APPARENT CONSUMPTION OF CRUDE STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	3,887	3,525	3,646	4,353	3,756	3,741	3,171	4,449	3,738	4,210
Denmark	1,645	2,029	1,256	1,610	1,862	1,846	1,622	1,736	1,829	1,855
France	17,461	17,197	15,298	15,492	14,812	14,522	14,820	16,983	17,563	18,076
F.R. Germany	32,608	27,917	30,242	31,053	30,824	30,626	29,103	35,482	35,712	34,166
Greece	1,796	1,753	2,104	1,588	1,794	1,852	1,900	1,940	1,962	2,403
Ireland	535	499	401	430	405	366	387	489	522	520
Italy	20,747	21,482	18,815	21,735	21,880	22,554	23,468	26,333	27,814	28,532
Netherlands	3,653	3,608	3,261	4,110	4,203	4,037	3,456	4,404	4,711	4,830
Portugal	1,291	1,640	1,261	1,192	1,109	1,227	1,551	2,157	3,409	2,830
Spain	8,167	9,080	7,468	7,026	6,711	8,821	8,962	10,502	11,307	12,088
United Kingdom (D)	16,090	15,180	14,710	14,330	14,350	14,820	14,980	17,490	17,400	16,690
E.C. Total	**107,880**	**103,909**	**98,463**	**88,589**	**101,707**	**104,412**	**103,420**	**121,965**	**125,966**	**126,199**
Austria	2,550	2,436	2,371	2,399	2,264	2,510	2,203	2,630	2,891	3,778
Finland	1,974	2,183	1,918	2,051	1,815	1,931	1,853	1,976	2,274	2,001
Norway	1,442	1,613	1,283	1,401	1,429	1,562	1,258	1,337	1,184	1,212
Sweden	3,436	3,539	3,633	3,716	3,292	3,543	3,556	3,873	3,927	3,689
Switzerland	2,296	1,917	1,862	2,197	2,228	2,379	2,304	2,441	2,856	2,711
Turkey	3,316	4,049	4,252	5,271	5,272	5,381	6,724	6,605	7,199	7,438
Yugoslavia	6,123	5,257	5,298	5,014	5,108	5,978	6,421	5,181	4,884	3,249
Others	159	190	175	193	194	260	226	309	273	284
Other Western Europe	**21,297**	**21,184**	**20,790**	**22,242**	**21,603**	**23,544**	**24,546**	**24,351**	**25,487**	**24,362**
Total Western Europe	**129,177**	**125,093**	**119,253**	**110,832**	**123,310**	**127,956**	**127,967**	**146,317**	**151,453**	**150,560**
Canada	14,118	9,419	11,132	13,282	13,641	12,512	13,472	15,022	14,214	11,143
United States	128,969	84,290	94,484	111,714	105,593	95,286	101,468	110,698	102,332	102,480
Japan (D)	71,136	69,504	65,614	74,367	73,377	69,941	75,751	86,871	93,278	99,032
Australia	6,683	5,850	4,811	6,054	5,740	5,925	5,853	6,447	6,393	5,044
New Zealand	689	758	720	778	670	630	840	1,018	670	687
South Africa	7,264	6,146	5,345	6,013	5,267	5,302	6,042	6,573	7,420	5,397
Total Industrial Cts.	**358,035**	**301,060**	**301,358**	**323,039**	**327,598**	**317,552**	**331,393**	**372,945**	**375,760**	**374,342**
Argentina	2,582	2,699	2,915	3,081	2,180	2,510	3,283	2,958	2,031	1,691
Bolivia	135	65	34	60	37	40	83	84	85	85
Brazil	12,046	10,609	8,583	10,673	11,995	14,529	14,973	11,721	12,623	10,197
Chile	726	334	462	656	658	758	830	1,041	1,036	994
Colombia	992	1,101	959	1,147	1,255	1,209	1,188	1,298	1,370	1,138
Costa Rica	94	63	114	146	151	112	44	128	176	199
Dominican Republic	78	153	79	122	60	71	90	60	176	204
Ecuador	378	351	165	299	418	291	192	243	333	361
El Salvador	53	43	50	64	63	75	51	54	58	67
Guatemala	141	102	94	98	108	113	84	97	102	125
Honduras	58	39	59	58	68	51	42	43	44	45
Mexico	11,368	8,181	6,296	7,331	7,693	6,451	6,653	7,025	7,124	8,289
Nicaragua	48	87	70	40	100	97	107	112	115	118
Panama	101	98	79	84	94	95	94	36	33	34
Paraguay	31	44	43	31	36	40	57	108	104	108
Peru	765	450	340	476	537	557	583	572	477	365
Trinidad & Tobago	152	281	160	164	186	244	279	271	249	258
Uruguay	103	86	77	85	67	88	135	99	114	120
Venezuela	2,585	2,976	1,676	2,086	1,754	2,614	2,957	3,142	2,264	2,007
Others	405	502	487	444	315	302	273	336	288	294
Total Latin America	**32,841**	**28,265**	**22,743**	**27,145**	**27,774**	**30,247**	**31,998**	**29,429**	**28,800**	**26,699**

Table 10
(continued)

APPARENT CONSUMPTION OF CRUDE STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	2,411	2,471	2,529	2,581	3,138	3,182	2,968	2,841	2,521	2,525
Egypt	2,104	2,376	2,522	2,323	3,288	5,594	3,753	4,443	4,648	4,717
Kenya	159	115	189	200	254	173	266	213	204	195
Libyan Arab Republic	1,259	445	649	361	570	326	415	457	553	454
Morocco	590	732	636	799	755	517	567	591	686	588
Nigeria	4,689	4,056	1,979	1,665	2,825	2,693	2,966	2,749	2,716	2,716
Tanzania	39	78	82	68	65	48	59	57	63	57
Tunisia (D)	601	666	717	576	547	511	494	599	589	708
Zaire	62	62	59	85	28	22	31	68	53	31
Zambia	14	11	9	13	27	28	2	6	6	6
Zimbabwe (D)	184	134	112	133	162	164	153	173	211	200
Other Africa	1,216	663	958	1,245	1,238	999	764	761	758	756
Total Africa	**13,328**	**11,810**	**10,442**	**10,050**	**12,896**	**14,256**	**12,439**	**12,956**	**13,007**	**12,953**
Bahrain	57	106	138	123	109	59	29	38	46	31
Iran	2,841	4,246	5,903	4,656	6,107	4,343	5,601	4,522	5,177	6,985
Iraq	1,457	1,133	1,177	877	991	455	665	663	890	738
Israel	559	589	488	582	563	676	788	768	822	907
Jordan	431	376	434	353	284	409	376	394	393	391
Kuwait	718	741	696	1,117	356	396	119	147	51	34
Lebanon	346	374	400	518	372	192	111	114	114	113
Oman	234	310	301	453	526	284	287	286	284	284
Qatar	48	157	97	15	96	66	55	93	131	72
Saudi Arabia	3,858	6,298	5,742	4,599	3,759	3,132	2,548	4,140	2,963	2,814
Syrian Arab Republic	524	911	476	862	1,140	209	119	107	125	140
Other	2,151	1,880	3,043	3,025	3,008	1,832	1,248	1,243	1,238	1,235
Total Middle East	**13,223**	**17,120**	**18,895**	**17,181**	**17,310**	**12,050**	**11,947**	**12,516**	**12,233**	**13,743**
Bangladesh	481	223	225	351	494	437	415	462	425	428
Hong Kong	2,040	2,137	1,883	1,796	1,865	2,237	1,257	2,303	1,204	1,157
India (D)	14,000	13,900	11,600	13,900	14,400	15,290	17,640	19,040	20,036	21,700
Indonesia	3,024	3,087	2,845	2,626	2,367	2,817	2,591	2,716	2,991	4,712
Republic of Korea (D)	7,480	7,630	8,620	10,620	11,310	12,190	15,050	15,830	18,270	21,650
Malaysia	1,727	2,352	2,640	2,448	2,007	1,594	1,880	2,098	2,596	2,817
Pakistan	700	1,367	1,432	1,198	1,651	1,708	1,689	1,886	1,883	1,881
Philippines (D)	1,061	1,200	1,513	808	674	1,020	1,624	1,901	2,182	1,900
Singapore (D)	2,011	2,398	2,630	2,174	2,042	2,079	2,216	2,545	3,021	3,453
Taiwan (R.O.C.) (D)	5,563	5,074	5,770	6,086	6,316	7,835	9,401	11,630	14,100	15,350
Thailand	1,852	2,455	3,091	2,328	2,770	2,332	2,702	3,195	3,747	4,232
Other	1,138	1,059	992	1,161	1,200	1,214	1,495	1,556	1,549	1,545
Total Asia	**41,078**	**42,882**	**43,242**	**45,497**	**47,096**	**50,754**	**57,961**	**65,162**	**72,003**	**80,824**
Total Developing Cts.	**100,469**	**100,078**	**95,322**	**99,873**	**105,076**	**107,307**	**114,345**	**120,063**	**126,044**	**134,219**
Total Western World	**458,505**	**401,138**	**396,681**	**422,912**	**432,674**	**424,859**	**445,738**	**493,008**	**501,804**	**508,561**

Table 10
(continued)

APPARENT CONSUMPTION OF CRUDE STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Albania	156	220	228	238	248	257	257	257	269	257
Bulgaria	3,027	3,185	3,312	2,990	3,090	2,956	3,164	3,238	2,897	3,741
Czechoslovakia	11,173	11,060	11,034	10,805	10,970	11,043	10,852	10,711	10,828	10,257
German Dem. Rep.	9,564	9,974	9,180	8,723	9,223	9,117	9,010	8,891	10,348	5,384
Hungary	3,649	3,703	3,568	3,328	3,363	3,492	3,430	3,120	2,810	2,351
Poland	15,356	14,381	14,770	15,206	15,035	15,939	15,772	15,448	13,330	10,675
Romania	11,584	11,774	11,047	11,748	11,109	12,068	12,531	11,972	10,740	8,052
U.S.S.R. (E)	150,936	150,463	157,768	159,562	157,255	161,582	163,032	164,679	161,511	156,403
Total Eastern Europe	**205,445**	**204,760**	**210,907**	**212,600**	**210,293**	**216,455**	**218,048**	**218,317**	**212,734**	**197,119**
Cuba	1,057	895	991	1,049	1,183	1,185	1,188	1,099	1,120	923
China	39,201	40,935	52,349	60,834	72,540	77,549	72,105	70,689	71,322	68,832
Other Asian C.P.E.s	6,095	6,394	6,760	7,158	7,157	7,256	7,385	7,484	7,584	7,653
Total C.P.E.s	**251,797**	**252,984**	**271,007**	**281,641**	**291,174**	**302,444**	**298,725**	**297,589**	**292,759**	**274,527**
World Total	**710,302**	**654,122**	**667,688**	**704,553**	**723,848**	**727,303**	**744,463**	**790,597**	**794,563**	**783,089**

Apparent Consumption of Crude Steel

million metric tons

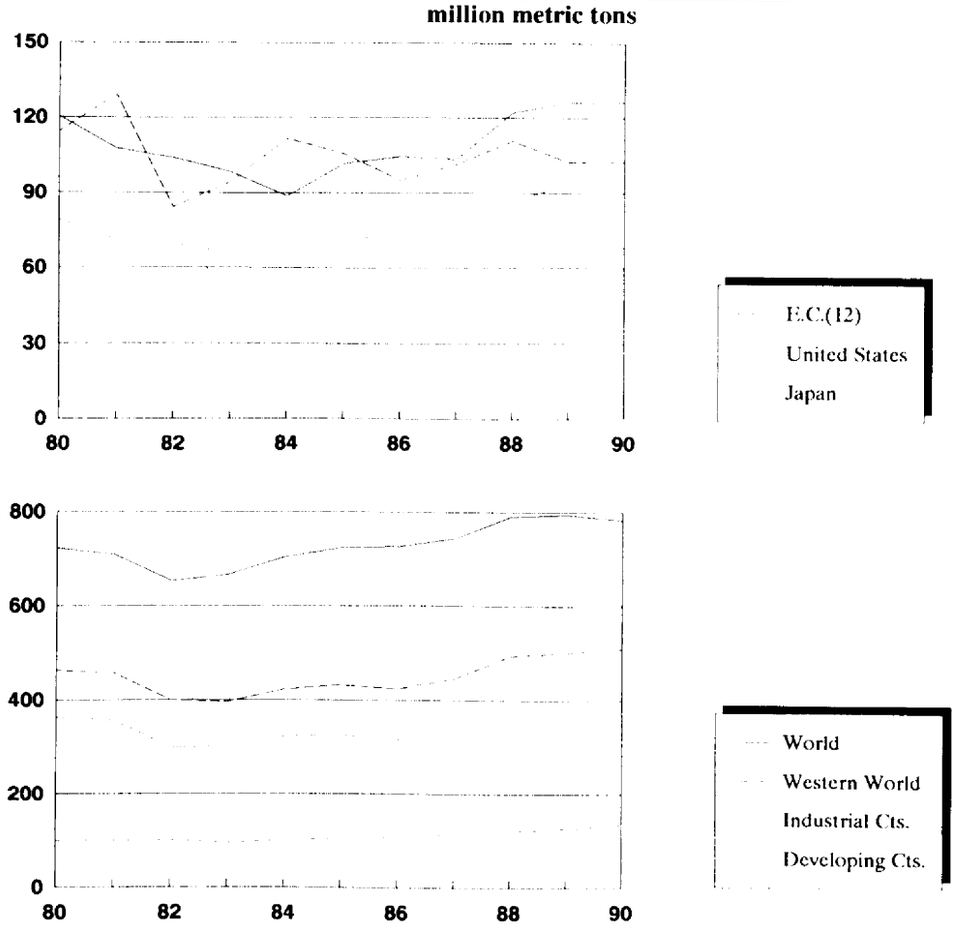


Table 11

APPARENT CONSUMPTION PER CAPITA

kilograms crude steel

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	380.3	344.6	356.4	425.5	367.2	365.7	309.7	434.0	365.3	412.3
Denmark	321.2	396.3	245.7	315.1	364.4	360.6	316.2	338.4	356.5	360.9
France	322.3	315.7	279.5	281.9	268.5	262.2	266.4	303.9	312.7	320.3
F.R. Germany	528.8	453.2	492.7	508.0	505.6	502.0	476.5	577.4	575.4	540.3
Greece	184.6	179.1	213.6	160.4	180.7	185.7	190.3	194.0	195.6	239.1
Ireland	155.5	143.4	114.6	121.9	114.5	103.4	109.2	138.1	148.7	148.6
Italy	367.1	379.3	331.0	381.3	382.9	393.9	409.3	458.4	483.5	494.8
Netherlands	256.4	252.1	227.1	285.0	290.3	277.3	235.7	298.4	317.7	323.3
Portugal	130.9	165.1	126.0	118.1	109.2	120.2	151.3	209.6	325.6	268.8
Spain	216.4	239.1	195.7	183.3	174.4	228.5	231.5	270.6	290.8	310.3
United Kingdom (D)	285.5	269.6	261.0	253.8	253.4	261.1	263.1	306.5	304.0	291.6
E.C. Total	**338.1**	**324.9**	**307.2**	**275.9**	**316.0**	**323.6**	**319.7**	**375.7**	**386.3**	**384.9**
Austria	337.3	321.8	314.0	317.7	299.5	332.0	291.0	346.0	379.4	490.0
Finland	411.3	451.9	394.6	420.3	370.5	392.5	375.8	399.2	458.4	401.0
Norway	351.8	392.6	310.6	338.5	344.2	374.6	300.3	317.5	279.8	285.9
Sweden	413.0	424.8	436.1	445.5	394.3	423.9	423.4	458.9	462.6	430.9
Switzerland	361.6	300.0	290.0	341.2	344.4	366.1	351.8	370.4	429.5	404.1
Turkey	72.9	87.0	89.1	107.6	105.0	104.1	126.3	121.9	126.9	126.7
Yugoslavia	272.5	232.2	232.4	218.3	220.9	256.9	274.2	219.8	206.1	136.5
Others	113.7	134.7	121.8	133.1	131.2	174.3	149.8	201.7	177.3	183.0
Other Western Europe	**212.0**	**208.0**	**201.4**	**212.3**	**203.3**	**218.1**	**223.5**	**219.2**	**223.7**	**209.5**
Total Western Europe	**307.9**	**296.6**	**281.4**	**260.2**	**288.1**	**297.2**	**295.3**	**335.8**	**344.2**	**339.0**
Canada	580.0	383.2	449.0	531.7	542.2	493.6	525.8	579.8	542.1	420.2
United States	560.9	363.1	403.3	472.7	442.8	395.9	417.9	451.7	413.7	410.0
Japan (D)	604.6	586.6	549.9	619.3	607.2	575.7	620.5	708.5	757.6	801.6
Australia	447.9	385.4	312.6	389.1	363.5	369.9	359.9	389.8	379.8	295.2
New Zealand	220.8	239.8	224.9	240.8	206.0	193.8	256.2	309.4	202.4	205.0
South Africa	251.3	208.1	177.0	194.7	166.8	164.2	183.0	194.8	215.0	153.0
Total Industrial Cts.	**427.0**	**356.4**	**354.1**	**377.0**	**379.5**	**365.2**	**378.1**	**422.4**	**421.6**	**416.0**
Argentina	90.1	92.8	98.8	103.0	71.9	81.7	105.4	93.8	63.6	52.3
Bolivia	23.4	10.9	5.6	9.6	5.8	6.1	12.1	12.0	11.8	11.5
Brazil	97.1	83.6	66.1	80.5	88.5	104.9	105.9	81.2	85.6	67.8
Chile	64.1	29.0	39.4	55.0	54.3	61.5	66.2	81.6	79.9	75.5
Colombia	37.5	40.8	34.9	40.9	43.8	41.4	40.0	42.9	42.3	34.5
Costa Rica	41.5	27.3	46.8	60.4	60.4	41.8	16.1	46.0	61.7	68.0
Dominican Republic	14.0	25.6	12.9	19.4	9.4	10.9	13.4	8.7	25.1	28.5
Ecuador	45.2	40.7	18.6	32.9	44.5	30.2	19.4	23.8	31.7	33.4
El Salvador	11.4	9.3	10.6	13.2	12.7	14.9	10.1	10.6	11.1	12.8
Guatemala	19.8	14.0	12.6	12.7	13.5	13.8	10.0	11.2	11.4	13.6
Honduras	15.1	9.9	14.3	13.7	15.5	11.4	9.0	9.0	8.9	8.9
Mexico	159.3	112.0	84.3	96.1	98.7	81.1	81.9	84.8	84.3	96.2
Nicaragua	16.9	29.4	23.0	12.5	30.6	28.7	30.5	30.9	30.6	30.5
Panama	50.6	48.2	37.6	39.6	43.0	42.8	41.4	15.5	13.9	14.1
Paraguay	9.6	13.2	12.4	8.7	9.8	10.6	14.6	26.8	25.0	25.3
Peru	43.1	24.7	18.2	24.8	27.3	27.6	28.1	26.9	21.9	16.3
Trinidad & Tobago	139.5	250.7	140.0	140.1	157.9	203.2	230.8	224.0	206.0	209.4
Uruguay	35.3	29.2	26.1	28.4	22.3	29.0	44.5	32.4	36.9	38.8
Venezuela	167.0	186.7	102.2	123.8	101.3	147.0	161.8	167.5	117.6	101.7
Others	29.1	35.7	34.1	30.8	21.5	20.3	18.2	22.2	18.5	18.6
Total Latin America	**91.6**	**77.0**	**60.6**	**70.8**	**70.9**	**75.6**	**78.4**	**70.6**	**67.5**	**61.3**

Table 11
(continued)

APPARENT CONSUMPTION PER CAPITA

kilograms crude steel

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	125.2	124.4	123.3	121.9	143.6	141.3	128.9	120.1	103.8	101.2
Egypt	50.5	55.5	57.3	51.4	70.8	117.3	76.6	88.2	89.9	88.7
Kenya	9.2	6.4	10.1	10.2	12.5	8.2	11.6	8.9	8.2	8.1
Libyan Arab Republic	438.8	148.8	208.5	111.6	169.6	93.3	114.2	121.3	126.2	100.1
Morocco	28.6	35.9	30.4	37.2	34.3	22.9	24.5	24.8	28.1	23.5
Nigeria	57.9	48.5	22.9	17.8	29.5	27.4	29.3	26.2	25.9	25.0
Tanzania	2.0	4.0	4.0	3.2	3.0	2.2	2.5	2.4	2.5	2.2
Tunisia (D)	91.5	99.4	104.8	81.9	75.3	68.5	64.7	77.1	74.5	86.6
Zaire	2.3	2.2	2.0	2.8	0.9	0.7	1.0	2.0	1.5	0.9
Zambia	2.5	1.8	1.5	2.0	4.0	3.8	0.3	0.8	0.7	0.7
Zimbabwe (D)	25.0	17.9	14.5	16.7	19.3	19.5	17.7	19.5	23.1	21.3
Other Africa	5.7	3.0	4.2	5.4	5.2	4.1	3.0	2.9	3.4	2.7
Total Africa	**28.9**	**24.9**	**21.3**	**19.8**	**24.6**	**26.5**	**22.4**	**22.6**	**23.9**	**21.5**
Bahrain	162.0	285.5	353.1	299.6	260.3	133.8	62.4	80.3	92.9	61.3
Iran	69.6	99.9	133.6	101.3	127.7	87.8	109.7	86.1	95.5	127.9
Iraq	106.6	80.3	80.7	58.2	63.6	28.2	40.7	38.4	48.7	39.0
Israel	141.5	146.2	118.7	139.9	133.1	157.1	180.3	172.9	182.0	194.6
Jordan	143.1	121.4	135.7	107.1	83.2	116.1	103.4	105.2	101.2	97.6
Kuwait	501.9	493.7	443.1	681.3	208.1	221.2	63.9	75.2	25.0	15.9
Lebanon	130.1	140.5	150.4	194.1	139.4	71.8	41.9	43.0	42.6	42.0
Oman	227.2	284.2	264.3	380.5	424.0	220.1	214.2	205.6	196.2	189.1
Qatar	200.1	603.0	361.0	54.9	319.0	213.0	165.5	272.3	373.3	194.8
Saudi Arabia	393.2	614.4	537.2	413.2	324.0	259.5	187.2	295.3	205.3	189.2
Syrian Arab Republic	58.2	98.0	49.5	86.8	111.0	19.7	10.9	9.5	10.7	11.5
Other	224.0	188.6	295.1	311.5	270.7	159.1	104.6	100.5	96.5	95.9
Total Middle East	**138.3**	**172.7**	**183.9**	**162.9**	**156.8**	**105.7**	**100.7**	**102.2**	**96.4**	**106.3**
Bangladesh	5.3	2.4	2.4	3.6	5.0	4.3	4.0	4.4	4.0	3.7
Hong Kong	393.9	406.4	352.0	332.7	341.5	404.5	224.0	405.5	209.1	199.5
India (D)	20.3	19.7	16.1	18.9	19.2	20.0	22.6	23.9	24.7	26.2
Indonesia	20.0	20.0	18.0	16.3	14.4	16.7	15.1	15.5	16.7	26.3
Republic of Korea (D)	193.2	194.0	216.0	262.8	277.1	296.0	362.0	377.2	431.1	506.0
Malaysia	122.4	162.4	177.7	160.4	128.0	98.9	113.7	123.8	149.6	157.7
Pakistan	8.2	15.6	15.8	12.8	17.2	17.2	16.5	17.9	17.3	16.8
Philippines (D)	21.4	23.6	29.1	15.1	12.3	18.2	28.3	32.4	36.3	30.9
Singapore (D)	824.2	970.9	1,052.0	859.3	797.7	802.7	849.0	960.4	1,127.2	1,151.0
Taiwan (R.O.C.) (D)	306.7	274.9	308.0	320.1	328.0	402.7	477.9	584.6	701.0	754.7
Thailand	38.8	50.4	62.2	45.9	53.6	44.3	50.4	58.6	67.6	74.0
Other	13.5	10.6	9.7	11.0	11.1	11.0	14.3	14.1	13.8	13.5
Total Asia	**32.2**	**32.5**	**32.1**	**33.0**	**33.4**	**35.3**	**39.7**	**43.7**	**47.3**	**51.9**
Total Developing Cts.	**45.8**	**44.3**	**41.2**	**42.0**	**43.2**	**43.1**	**45.0**	**46.1**	**48.1**	**49.3**
Total Western World	**151.2**	**129.2**	**125.2**	**130.8**	**131.2**	**126.4**	**130.4**	**141.4**	**142.9**	**140.3**

Table 11
(continued)

APPARENT CONSUMPTION PER CAPITA

kilograms crude steel

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Albania	57.3	79.1	80.4	82.0	83.7	85.2	83.5	81.8	84.0	79.0
Bulgaria	340.5	357.1	370.5	333.7	344.9	329.9	352.7	360.6	322.3	415.2
Czechoslovakia	729.3	719.6	716.0	698.9	707.7	711.1	697.0	686.2	692.3	655.0
German Dem. Rep.	571.3	597.3	549.7	523.3	554.3	548.5	541.5	533.4	622.3	323.3
Hungary	341.0	346.7	334.7	313.3	317.9	331.6	327.0	298.9	270.2	222.8
Poland	427.8	396.9	403.9	412.0	404.2	425.5	418.8	408.0	352.2	279.6
Romania	518.3	523.7	489.9	519.3	489.0	528.6	546.3	519.4	463.9	347.0
U.S.S.R. (E)	563.8	557.2	578.9	580.1	566.6	576.6	576.4	577.0	561.5	542.0
Total Eastern Europe	**540.2**	**534.3**	**546.1**	**546.2**	**536.3**	**547.7**	**547.6**	**544.2**	**527.2**	**486.6**
Cuba	108.7	91.3	100.1	105.0	117.2	116.1	115.3	105.6	106.5	87.0
China	38.9	40.1	50.7	58.2	68.5	72.2	66.2	63.9	63.5	60.4
Other Asian C.P.E.s	82.9	85.2	88.3	91.6	89.7	89.1	88.8	88.8	88.0	87.0
Total C.P.E.s	**171.1**	**169.9**	**180.0**	**184.9**	**188.9**	**193.8**	**188.9**	**185.8**	**180.4**	**167.1**
World Total	**157.7**	**142.4**	**142.9**	**148.1**	**149.6**	**147.8**	**148.9**	**155.3**	**154.8**	**148.7**

Apparent Consumption Per Capita

kilograms crude steel

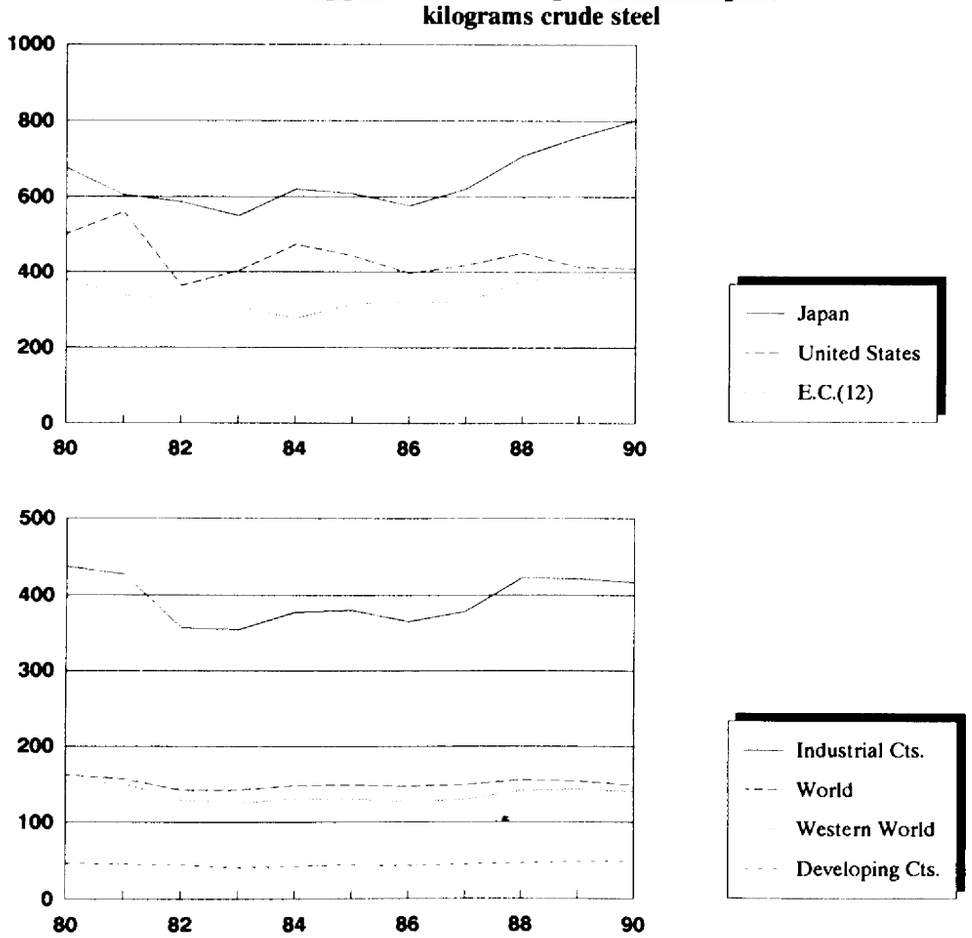


Table 12

APPARENT CONSUMPTION OF FINISHED STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	3,121	2,851	2,976	3,603	3,150	3,190	2,754	3,870	3,259	3,681
Denmark	1,363	1,710	1,067	1,376	1,601	1,599	1,413	1,519	1,607	1,635
France	14,639	14,583	13,082	13,312	13,002	12,933	13,258	15,212	15,730	16,200
F.R. Germany	27,437	23,801	26,186	27,102	27,011	27,045	25,835	31,523	31,787	30,481
Greece	1,489	1,477	1,788	1,357	1,543	1,604	1,654	1,697	1,724	2,117
Ireland	443	420	341	368	349	317	337	428	459	458
Italy	17,377	18,218	16,202	18,864	19,147	19,913	20,886	23,549	24,919	25,588
Netherlands	2,914	2,926	2,666	3,375	3,454	3,338	2,961	3,836	4,176	4,323
Portugal	1,059	1,365	1,044	981	919	1,018	1,288	1,793	2,846	2,372
Spain	6,717	7,497	6,206	5,872	5,677	7,511	7,699	9,130	10,007	10,746
United Kingdom (D)	11,451	11,542	11,207	11,411	11,435	11,628	12,549	14,742	15,124	13,977
E.C. Total	**88,012**	**86,390**	**82,763**	**76,211**	**87,287**	**90,096**	**90,632**	**107,300**	**111,639**	**111,578**
Austria	2,176	2,127	2,103	2,133	2,026	2,250	1,979	2,361	2,596	3,393
Finland	1,763	1,953	1,717	1,838	1,625	1,731	1,660	1,770	2,037	1,803
Norway	1,141	1,305	1,050	1,175	1,206	1,321	1,059	1,124	1,007	1,083
Sweden (D)	2,775	2,692	2,688	2,820	2,647	2,761	2,851	3,020	3,013	2,872
Switzerland	2,075	1,733	1,683	1,986	2,014	2,151	2,083	2,206	2,582	2,451
Turkey	2,766	3,418	3,634	4,566	4,522	4,703	5,889	5,833	6,335	6,544
Yugoslavia	5,067	4,381	4,443	4,207	4,297	5,028	5,412	4,417	4,177	2,807
Others	132	160	149	165	167	225	197	270	240	250
Other Western Europe	**17,895**	**17,769**	**17,467**	**18,889**	**18,504**	**20,170**	**21,129**	**21,002**	**21,986**	**21,202**
Total Western Europe	**105,907**	**104,160**	**100,230**	**95,100**	**105,791**	**110,266**	**111,761**	**128,301**	**133,625**	**132,780**
Canada (D)	11,507	7,410	8,670	10,450	10,923	10,481	11,400	12,500	11,900	10,400
United States (D)	94,573	68,214	74,418	87,735	84,750	79,187	84,240	90,303	85,712	85,950
Japan (D)	63,272	63,601	61,168	69,097	69,861	67,702	72,891	80,961	88,306	92,807
Australia	5,258	4,638	3,860	4,877	4,625	4,773	4,853	5,580	5,606	4,433
New Zealand	623	685	651	703	605	569	760	920	605	621
South Africa (D)	5,331	4,692	4,311	4,617	4,066	4,113	4,239	4,660	4,880	4,480
Total Industrial Cts.	**286,470**	**253,400**	**253,308**	**272,578**	**280,621**	**277,092**	**290,144**	**323,226**	**330,635**	**331,471**
Argentina (D)	2,174	2,232	2,218	2,226	1,569	2,126	2,613	2,310	1,710	1,280
Bolivia	112	55	29	51	32	35	72	73	75	75
Brazil (D)	9,590	8,952	7,613	9,295	10,293	12,560	12,738	10,700	11,700	9,000
Chile	560	257	356	506	508	586	640	803	800	768
Colombia	818	916	793	949	1,047	1,005	991	1,090	1,152	955
Costa Rica	78	53	97	125	129	97	38	112	154	175
Dominican Republic	64	129	67	104	52	62	78	52	154	180
Ecuador	313	296	140	256	359	252	168	213	293	318
El Salvador	44	36	43	55	54	65	44	47	51	59
Guatemala	117	86	80	84	93	98	73	85	90	110
Honduras	48	33	50	50	58	44	36	38	39	40
Mexico	9,234	6,711	5,311	6,172	6,446	5,373	5,603	5,933	6,038	7,057
Nicaragua	40	73	60	34	86	84	93	98	101	104
Panama	84	83	67	72	81	83	82	31	29	30
Paraguay	26	37	37	27	31	35	50	95	91	95
Peru	630	380	287	398	446	469	490	483	405	312
Trinidad & Tobago	126	237	136	140	160	211	243	237	219	227
Uruguay	86	73	66	72	58	76	118	87	100	106
Venezuela	2,168	2,537	1,437	1,779	1,503	2,242	2,539	2,710	1,972	1,745
Others	336	423	414	380	271	261	238	294	253	259
Total Latin America	**26,646**	**23,599**	**19,299**	**22,774**	**23,275**	**25,763**	**26,948**	**25,491**	**25,426**	**22,894**

Table 12
(continued)

APPARENT CONSUMPTION OF FINISHED STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	1,999	2,082	2,149	2,206	2,698	2,756	2,585	2,485	2,216	2,225
Egypt	1,806	2,024	2,157	2,021	2,856	4,858	3,370	3,922	4,090	4,181
Kenya	132	97	161	171	218	150	232	186	179	172
Libyan Arab Republic	1,044	375	551	309	490	282	361	400	486	401
Morocco	489	617	540	683	649	448	494	517	603	518
Nigeria	3,887	3,418	1,682	1,423	2,429	2,333	2,583	2,405	2,387	2,394
Tanzania	32	66	70	58	56	42	51	50	55	50
Tunisia (D)	471	517	564	467	420	420	404	466	483	560
Zaire	51	52	50	73	24	19	27	59	46	27
Zambia	12	9	8	11	23	24	2	5	5	5
Zimbabwe	304	198	269	106	382	333	280	300	264	311
Other Africa	1,008	559	814	1,064	1,064	865	665	666	666	666
Total Africa	**11,235**	**10,014**	**9,014**	**8,592**	**11,309**	**12,529**	**11,054**	**11,460**	**11,481**	**11,510**
Bahrain	47	89	117	105	94	51	25	33	40	27
Iran	2,355	3,577	5,016	3,980	5,251	3,762	4,878	3,956	4,551	6,155
Iraq	1,208	955	1,000	750	852	394	579	580	782	650
Israel	464	496	415	498	484	585	686	672	723	799
Jordan	357	317	369	302	244	354	327	345	345	345
Kuwait	595	624	591	955	306	343	104	129	45	30
Lebanon	287	315	340	443	320	166	97	100	100	100
Oman	194	261	256	387	452	246	250	250	250	250
Qatar	40	132	83	13	82	57	48	81	115	64
Saudi Arabia	3,198	5,307	4,879	3,931	3,232	2,713	2,219	3,622	2,604	2,480
Syrian Arab Republic	434	768	404	737	980	181	104	94	110	123
Other	1,783	1,584	2,585	2,585	2,586	1,587	1,087	1,087	1,088	1,088
Total Middle East	**10,962**	**14,426**	**16,054**	**14,686**	**14,883**	**10,439**	**10,403**	**10,949**	**10,753**	**12,111**
Bangladesh	399	188	191	300	425	378	361	404	373	377
Hong Kong	1,691	1,801	1,600	1,536	1,603	1,938	1,094	2,015	1,059	1,020
India (D)	10,382	10,496	9,857	9,555	10,744	11,520	13,830	14,930	15,670	13,187
Indonesia	2,612	2,659	2,466	2,305	2,085	2,507	2,310	2,434	2,687	4,238
Republic of Korea (D)	6,314	6,455	7,540	8,938	9,687	10,405	13,745	14,519	16,946	20,090
Malaysia	1,432	1,982	2,243	2,092	1,726	1,381	1,637	1,835	2,282	2,482
Pakistan	580	1,152	1,217	1,024	1,420	1,480	1,471	1,650	1,655	1,657
Philippines (D)	884	1,000	1,261	673	562	850	1,353	1,584	1,818	2,399
Singapore (D)	1,932	2,128	2,413	1,873	1,555	1,513	1,693	1,933	2,254	2,696
Taiwan (R.O.C.) (D)	4,636	4,229	4,808	5,071	5,263	6,529	7,834	9,690	11,750	12,790
Thailand	1,536	2,069	2,626	1,990	2,381	2,020	2,353	2,795	3,293	3,729
Other	943	892	842	993	1,032	1,052	1,302	1,361	1,362	1,362
Total Asia	**33,341**	**35,051**	**37,065**	**36,350**	**38,482**	**41,573**	**48,984**	**55,149**	**61,148**	**66,027**
Total Developing Cts.	**82,184**	**83,090**	**81,432**	**82,402**	**87,950**	**90,304**	**97,390**	**103,049**	**108,807**	**112,542**
Total Western World	**368,654**	**336,490**	**334,740**	**354,980**	**368,571**	**367,396**	**387,533**	**426,274**	**439,442**	**444,014**

Table 12
(continued)

APPARENT CONSUMPTION OF FINISHED STEEL

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Albania	119	168	175	183	191	199	199	199	209	199
Bulgaria	2,314	2,434	2,566	2,337	2,412	2,328	2,483	2,548	2,291	2,920
Czechoslovakia	8,726	8,650	8,672	8,529	8,664	8,730	8,599	8,495	8,593	8,179
German Dem. Rep.	7,500	7,822	7,228	6,975	7,471	7,425	7,363	7,289	8,453	4,445
Hungary	2,981	3,016	2,934	2,782	2,807	2,938	2,902	2,680	2,388	2,027
Poland	11,902	11,156	11,481	11,940	11,804	12,523	12,405	12,155	10,441	8,394
Romania	9,275	9,450	8,931	9,597	9,075	9,869	10,261	9,789	8,869	6,639
U.S.S.R. (E)	118,512	118,206	123,842	125,318	123,769	127,523	128,915	130,311	127,949	124,023
Total Eastern Europe	**161,329**	**160,903**	**165,830**	**167,662**	**166,193**	**171,535**	**173,128**	**173,466**	**169,192**	**156,828**
Cuba	809	687	761	807	912	915	919	849	867	715
China	30,432	31,792	40,556	47,174	56,132	60,180	56,263	55,448	56,147	54,927
Other Asian C.P.E.s	4,767	5,008	5,296	5,625	5,633	5,725	5,837	5,921	6,004	6,062
Total C.P.E.s	**197,337**	**198,389**	**212,443**	**221,268**	**228,870**	**238,355**	**236,147**	**235,684**	**232,210**	**218,532**
World Total	**565,991**	**534,879**	**547,183**	**576,248**	**597,441**	**605,750**	**623,680**	**661,958**	**671,652**	**662,546**

Apparent Consumption of Finished Steel

million metric tons

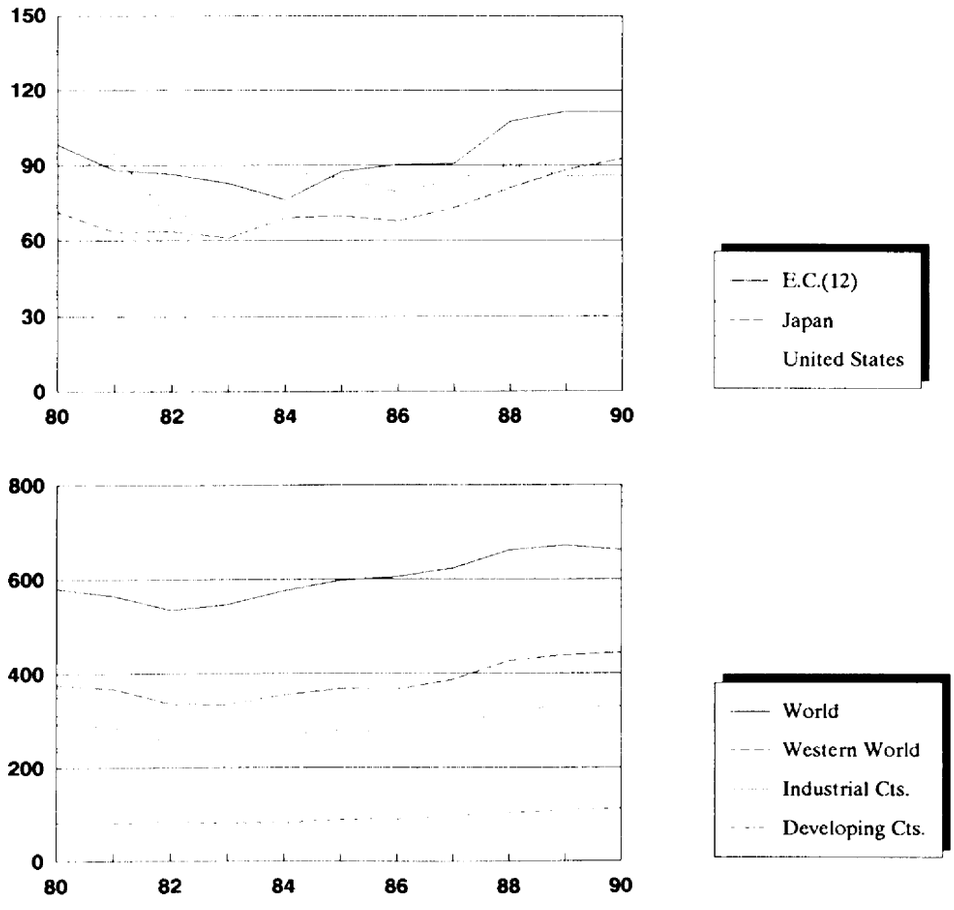


Table 13A

STEEL INTENSITY OF G.D.P

kg crude steel consumption per US$ at 1985 prices

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	0.0493	0.0440	0.0454	0.0531	0.0451	0.0442	0.0367	0.0492	0.0397	0.0432
Denmark	0.0326	0.0390	0.0236	0.0289	0.0321	0.0307	0.0271	0.0286	0.0298	0.0296
France	0.0356	0.0342	0.0302	0.0302	0.0283	0.0271	0.0270	0.0298	0.0296	0.0296
F.R. Germany	0.0555	0.0478	0.0511	0.0510	0.0496	0.0481	0.0450	0.0529	0.0515	0.0472
Greece	0.0574	0.0558	0.0667	0.0490	0.0537	0.0546	0.0563	0.0553	0.0543	0.0666
Ireland	0.0310	0.0282	0.0228	0.0234	0.0215	0.0195	0.0197	0.0240	0.0242	0.0230
Italy	0.0523	0.0539	0.0467	0.0525	0.0515	0.0516	0.0521	0.0562	0.0576	0.0579
Netherlands	0.0306	0.0307	0.0273	0.0334	0.0334	0.0314	0.0267	0.0331	0.0341	0.0338
Portugal	0.0651	0.0801	0.0618	0.0593	0.0534	0.0567	0.0684	0.0916	0.1373	0.1093
Spain	0.0534	0.0587	0.0474	0.0433	0.0405	0.0515	0.0496	0.0552	0.0567	0.0585
United Kingdom	0.0388	0.0361	0.0337	0.0323	0.0311	0.0309	0.0298	0.0335	0.0327	0.0312
E.C. Total	**0.0457**	**0.0437**	**0.0407**	**0.0358**	**0.0401**	**0.0400**	**0.0386**	**0.0438**	**0.0438**	**0.0427**
Austria	0.0421	0.0398	0.0379	0.0377	0.0347	0.0381	0.0328	0.0377	0.0398	0.0497
Finland	0.0414	0.0442	0.0377	0.0390	0.0334	0.0348	0.0321	0.0325	0.0355	0.0313
Norway	0.0290	0.0323	0.0245	0.0260	0.0246	0.0258	0.0204	0.0217	0.0192	0.0193
Sweden	0.0374	0.0381	0.0384	0.0377	0.0327	0.0345	0.0338	0.0357	0.0355	0.0332
Switzerland	0.0261	0.0220	0.0212	0.0246	0.0240	0.0249	0.0237	0.0244	0.0275	0.0255
Turkey	0.0755	0.0883	0.0883	0.1056	0.0999	0.0941	0.1095	0.1035	0.1118	0.1058
Yugoslavia (E)	0.1335	0.1151	0.1206	0.1175	0.1191	0.1345	0.1460	0.1202	0.1156	0.0785
Other Western Europe	**0.0494**	**0.0486**	**0.0468**	**0.0489**	**0.0459**	**0.0483**	**0.0491**	**0.0474**	**0.0486**	**0.0453**
Total Western Europe	**0.0463**	**0.0444**	**0.0417**	**0.0378**	**0.0410**	**0.0413**	**0.0402**	**0.0444**	**0.0445**	**0.0431**
Canada	0.0447	0.0308	0.0353	0.0398	0.0390	0.0346	0.0358	0.0382	0.0351	0.0275
United States	0.0365	0.0245	0.0264	0.0292	0.0266	0.0233	0.0240	0.0250	0.0225	0.0223
Japan	0.0618	0.0587	0.0537	0.0580	0.0546	0.0507	0.0528	0.0570	0.0585	0.0588
Australia	0.0472	0.0416	0.0340	0.0395	0.0357	0.0360	0.0341	0.0363	0.0345	0.0269
New Zealand	0.0342	0.0375	0.0346	0.0354	0.0301	0.0276	0.0367	0.0450	0.0292	0.0300
South Africa	0.1280	0.1092	0.0970	0.1057	0.0937	0.0920	0.1054	0.1100	0.1217	0.0893
Total Industrial Cts.	**0.0447**	**0.0378**	**0.0368**	**0.0375**	**0.0368**	**0.0346**	**0.0350**	**0.0377**	**0.0368**	**0.0358**
Argentina	0.0377	0.0415	0.0435	0.0448	0.0331	0.0361	0.0463	0.0427	0.0307	0.0267
Brazil	0.0584	0.0511	0.0428	0.0517	0.0538	0.0606	0.0603	0.0472	0.0493	0.0386
Chile	0.0422	0.0226	0.0315	0.0420	0.0411	0.0448	0.0465	0.0543	0.0491	0.0429
Mexico	0.0643	0.0465	0.0378	0.0424	0.0434	0.0377	0.0384	0.0394	0.0390	0.0442
Trinidad & Tobago	0.0173	0.0307	0.0192	0.0213	0.0256	0.0386	0.0412	0.0414	0.0381	0.0394
Venezuela	0.0392	0.0448	0.0267	0.0353	0.0293	0.0411	0.0444	0.0445	0.0348	0.0292
Israel	0.0258	0.0269	0.0217	0.0251	0.0234	0.0271	0.0298	0.0283	0.0298	0.0313
Saudi Arabia	0.0381	0.0612	0.0625	0.0509	0.0434	0.0342	0.0282	0.0427	0.0305	0.0289
Nigeria	0.0516	0.0444	0.0226	0.0225	0.0349	0.0323	0.0357	0.0301	0.0283	0.0268
Tunisia	0.0845	0.0941	0.0967	0.0735	0.0661	0.0626	0.0574	0.0685	0.0651	0.0729
Zimbabwe	0.0461	0.0325	0.0268	0.0324	0.0372	0.0366	0.0346	0.0378	0.0445	0.0407
India	0.0821	0.0784	0.0603	0.0692	0.0680	0.0691	0.0759	0.0747	0.0749	0.0772
Indonesia	0.0404	0.0403	0.0357	0.0308	0.0271	0.0305	0.0269	0.0265	0.0271	0.0398
Republic of Korea	0.1130	0.1074	0.1085	0.1318	0.1312	0.1259	0.1387	0.1267	0.1423	0.1547
Philippines (G.N.P.)	0.0303	0.0337	0.0420	0.0251	0.0226	0.0328	0.0496	0.0542	0.0589	0.0495
Singapore	0.1400	0.1562	0.1584	0.1204	0.1154	0.1153	0.1123	0.1160	0.1261	0.1331
Taiwan (R.O.C.)	0.1130	0.0995	0.1044	0.0995	0.0984	0.1094	0.1168	0.1346	0.1520	0.1542
Total Developing Cts.	**0.0615**	**0.0588**	**0.0521**	**0.0561**	**0.0555**	**0.0576**	**0.0618**	**0.0610**	**0.0625**	**0.0639**
Total Western World	**0.0469**	**0.0405**	**0.0387**	**0.0398**	**0.0391**	**0.0375**	**0.0383**	**0.0406**	**0.0400**	**0.0395**

E - estimate

G.N.P. - Steel Intensity of G.N.P. not G.D.P.

Totals include listed countries only.

Table 13B

STEEL INTENSITY OF G.D.P

kg finished steel consumption per US$ at 1985 prices

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	0.0396	0.0356	0.0371	0.0439	0.0378	0.0377	0.0318	0.0428	0.0346	0.0378
Denmark	0.0270	0.0329	0.0200	0.0247	0.0276	0.0266	0.0236	0.0250	0.0262	0.0261
France	0.0298	0.0290	0.0258	0.0259	0.0249	0.0241	0.0242	0.0267	0.0265	0.0265
F.R. Germany	0.0467	0.0408	0.0442	0.0445	0.0434	0.0425	0.0399	0.0470	0.0459	0.0421
Greece	0.0476	0.0470	0.0567	0.0419	0.0461	0.0473	0.0490	0.0484	0.0478	0.0587
Ireland	0.0257	0.0238	0.0193	0.0200	0.0185	0.0169	0.0172	0.0210	0.0213	0.0203
Italy	0.0438	0.0458	0.0402	0.0456	0.0451	0.0456	0.0463	0.0502	0.0516	0.0519
Netherlands	0.0244	0.0249	0.0224	0.0274	0.0274	0.0260	0.0229	0.0289	0.0302	0.0302
Portugal	0.0534	0.0667	0.0511	0.0488	0.0443	0.0470	0.0568	0.0761	0.1146	0.0916
Spain	0.0440	0.0485	0.0394	0.0362	0.0342	0.0439	0.0426	0.0480	0.0502	0.0520
United Kingdom	0.0276	0.0274	0.0257	0.0257	0.0248	0.0242	0.0250	0.0282	0.0284	0.0261
E.C. Total	**0.0373**	**0.0363**	**0.0342**	**0.0308**	**0.0344**	**0.0345**	**0.0338**	**0.0385**	**0.0388**	**0.0377**
Austria	0.0360	0.0348	0.0336	0.0335	0.0311	0.0341	0.0294	0.0338	0.0358	0.0447
Finland	0.0370	0.0396	0.0337	0.0349	0.0299	0.0312	0.0288	0.0291	0.0318	0.0282
Norway	0.0229	0.0261	0.0201	0.0218	0.0207	0.0218	0.0171	0.0183	0.0163	0.0172
Sweden	0.0302	0.0290	0.0284	0.0286	0.0263	0.0269	0.0271	0.0279	0.0273	0.0258
Switzerland	0.0236	0.0199	0.0191	0.0222	0.0217	0.0225	0.0214	0.0220	0.0249	0.0230
Turkey	0.0630	0.0746	0.0755	0.0915	0.0857	0.0823	0.0959	0.0914	0.0984	0.0931
Yugoslavia (E)	0.1104	0.0959	0.1012	0.0986	0.1002	0.1132	0.1230	0.1025	0.0989	0.0678
Other Western Europe	**0.0415**	**0.0408**	**0.0393**	**0.0416**	**0.0393**	**0.0414**	**0.0423**	**0.0408**	**0.0419**	**0.0394**
Total Western Europe	**0.0379**	**0.0370**	**0.0350**	**0.0325**	**0.0352**	**0.0356**	**0.0351**	**0.0389**	**0.0393**	**0.0380**
Canada	0.0364	0.0242	0.0275	0.0313	0.0312	0.0290	0.0303	0.0318	0.0294	0.0257
United States	0.0268	0.0198	0.0208	0.0229	0.0214	0.0194	0.0199	0.0204	0.0188	0.0187
Japan	0.0549	0.0537	0.0501	0.0539	0.0520	0.0491	0.0508	0.0531	0.0554	0.0551
Australia	0.0372	0.0330	0.0273	0.0318	0.0288	0.0290	0.0283	0.0314	0.0302	0.0236
New Zealand	0.0309	0.0339	0.0313	0.0320	0.0272	0.0250	0.0332	0.0407	0.0264	0.0271
South Africa	0.0940	0.0833	0.0782	0.0812	0.0724	0.0714	0.0739	0.0780	0.0800	0.0741
Total Industrial Cts.	**0.0358**	**0.0318**	**0.0309**	**0.0317**	**0.0315**	**0.0302**	**0.0306**	**0.0326**	**0.0324**	**0.0317**
Argentina	0.0318	0.0343	0.0331	0.0324	0.0239	0.0306	0.0369	0.0333	0.0258	0.0202
Brazil	0.0465	0.0431	0.0380	0.0450	0.0461	0.0524	0.0513	0.0431	0.0457	0.0341
Chile	0.0325	0.0174	0.0243	0.0324	0.0318	0.0347	0.0358	0.0419	0.0379	0.0331
Mexico	0.0522	0.0381	0.0319	0.0357	0.0363	0.0314	0.0324	0.0333	0.0330	0.0377
Trinidad & Tobago	0.0144	0.0259	0.0163	0.0182	0.0221	0.0334	0.0358	0.0362	0.0335	0.0347
Venezuela	0.0329	0.0382	0.0229	0.0301	0.0251	0.0352	0.0382	0.0384	0.0303	0.0254
Israel	0.0214	0.0227	0.0185	0.0214	0.0201	0.0234	0.0259	0.0247	0.0262	0.0276
Saudi Arabia	0.0316	0.0515	0.0531	0.0435	0.0373	0.0297	0.0246	0.0373	0.0268	0.0255
Nigeria	0.0428	0.0374	0.0192	0.0192	0.0300	0.0279	0.0311	0.0263	0.0248	0.0237
Tunisia	0.0662	0.0730	0.0761	0.0596	0.0507	0.0515	0.0469	0.0533	0.0534	0.0577
Zimbabwe	0.0762	0.0482	0.0643	0.0257	0.0876	0.0743	0.0633	0.0656	0.0557	0.0634
India	0.0609	0.0592	0.0512	0.0476	0.0507	0.0520	0.0595	0.0586	0.0585	0.0469
Indonesia	0.0349	0.0347	0.0309	0.0270	0.0239	0.0271	0.0240	0.0237	0.0244	0.0358
Republic of Korea	0.0953	0.0908	0.0949	0.1109	0.1124	0.1074	0.1267	0.1162	0.1320	0.1436
Philippines (G.N.P.)	0.0253	0.0280	0.0350	0.0209	0.0188	0.0273	0.0414	0.0452	0.0491	0.0625
Singapore	0.1345	0.1386	0.1453	0.1038	0.0879	0.0839	0.0858	0.0881	0.0940	0.1039
Taiwan (R.O.C.)	0.0942	0.0830	0.0870	0.0829	0.0820	0.0911	0.0973	0.1122	0.1267	0.1285
Total Developing Cts.	**0.0500**	**0.0485**	**0.0446**	**0.0455**	**0.0458**	**0.0479**	**0.0522**	**0.0520**	**0.0536**	**0.0526**
Total Western World	**0.0376**	**0.0340**	**0.0327**	**0.0334**	**0.0333**	**0.0324**	**0.0333**	**0.0351**	**0.0351**	**0.0344**

E - estimate

G.N.P. - Steel Intensity of G.N.P. not G.D.P.

Totals include listed countries only.

Table 14

DIRECT REDUCED IRON PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
F.R. Germany	484	322	70	100	100	170	200	270	353	310
Italy										
Sweden	102	106	103	120	108	111	117	122	116	109
Canada	963	497	538	500	740	690	730	770	705	732
United States	530	66	0	120	140	160	210	290	291	390
Japan										
New Zealand	150	160	150	170	170	80	0	418	493	549
South Africa	123	101	24	165	543	746	840	759	772	882
Total Industrial Cts.	**2,352**	**1,252**	**885**	**1,175**	**1,801**	**1,957**	**2,097**	**2,629**	**2,730**	**2,972**
Argentina	805	879	950	898	989	935	1,033	1,067	1,167	1,035
Brazil	226	226	255	245	285	295	202	195	258	260
Mexico	1,686	1,505	1,497	1,448	1,500	1,420	1,551	1,648	2,148	2,511
Peru	54	43	27	62	44	55	51	49	46	35
Trinidad & Tobago	187	237	284	239	203	337	475	598	545	690
Venezuela	1,608	2,155	2,418	2,490	2,633	2,938	3,152	3,096	2,420	3,525
Total Latin America	**4,566**	**5,045**	**5,431**	**5,381**	**5,655**	**5,981**	**6,463**	**6,653**	**6,583**	**8,056**
Egypt					0	31	464	759	817	710
Libya									90	500
Nigeria	0	73	156	142	242	109	131	132	124	112
Iran	0	0	0	0	30	0	0	0	40	300
Iraq	0	0	0	0	0	0	0	100	172	170
Qatar	459	452	390	500	490	490	470	495	531	573
Saudi Arabia		9	351	730	991	1,170	1,040	1,080	1,207	1,085
Burma	10	10	10	10	30	30	20	20	20	20
India	27	30	54	80	102	148	190	190	360	750
Indonesia	384	391	469	738	1,060	1,323	1,028	985	1,210	1,357
Malaysia			0	40	520	580	590	427	644	620
Total Developing Cts.	**5,446**	**6,010**	**6,861**	**7,621**	**9,120**	**9,861**	**10,396**	**10,841**	**11,799**	**14,254**
Total Western World	**7,798**	**7,262**	**7,746**	**8,796**	**10,921**	**11,818**	**12,493**	**13,470**	**14,529**	**17,226**
U.S.S.R.		0	20	370	420	750	1,260	1,680	1,700	1,690
World Total	**7,798**	**7,262**	**7,766**	**9,166**	**11,341**	**12,568**	**13,753**	**15,150**	**16,229**	**18,916**

Totals are of available data only.

Table 15

PRODUCTION OF PELLETS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	770	696	569	604	613	557	500	710	588	663
Italy	0	0	0	0	0	0	0	0	0	0
Netherlands	...	...	...	3,700	3,600	3,500	3,700	3,796	4,000	3,844
Finland	306	333	332	338	140	0	0	0	496	487
Norway (E)	2,600	2,600	2,600	2,100	1,800	1,700	1,500	1,400	1,400	1,500 E
Sweden	4,182	3,922	4,955	6,548	8,743	8,842	9,152	9,109	10,026	9,965
Turkey	0	0	0	0	35	503	864	982	786	1,032
Yugoslavia	86	75	75	70	81	76	56	25	61	50 E
Total Western Europe	**7,944**	**7,626**	**8,531**	**13,360**	**15,012**	**15,178**	**15,772**	**16,022**	**17,357**	**17,541**
Canada	26,203	16,367	16,451	20,264	23,920	23,861	24,120	26,291	27,113	22,515
United States	71,075	33,563	36,904	50,887	47,724	37,795	45,911	55,957	57,285	55,001
Japan	3,130	3,123	3,053	3,112	3,014	2,506	2,625	3,109	3,128	3,378
Australia	3,887	3,321	3,043	3,497	3,725	3,338	3,309	3,400	3,500	3,000 E
Total Industrial Cts.	**112,239**	**64,000**	**67,982**	**91,120**	**93,395**	**82,678**	**91,737**	**104,779**	**108,383**	**101,435**
Argentina	374	616	546	465	495	646	465	597	658	593
Brazil	17,797	15,604	14,480	22,290	22,619	24,268	24,852	26,084	26,990	24,684
Chile	3,266	3,376	3,072	3,371	3,607	3,317	3,694	4,073	3,924	4,015
Mexico	5,931	6,566	6,403	7,356	6,640	6,663	7,400	7,937	7,582	8,298
Peru	1,697	1,482	1,101	995	1,785	1,916	2,011	1,774	1,848	1,304
Venezuela	2,078	3,109	3,567	3,184	3,652	3,293	4,344	4,808	4,654	5,249
Total Latin America	**31,143**	**30,753**	**29,169**	**37,661**	**38,798**	**40,103**	**42,766**	**45,273**	**45,656**	**44,143**
Liberia (E: 1980-2)	3,500	3,500	3,500	2,600	3,000	2,700	3,060	3,215	3,000	1,500 E
Iran										585
Bahrain (E: 1988-9)	0	0	0	0	400	500	0	2,500	3,000	3,500 E
India	148	0	0	0	100	200	587	1,467	1,887	1,920
Total Developing Cts.	**34,791**	**34,253**	**32,669**	**40,261**	**42,298**	**43,503**	**46,413**	**52,455**	**53,543**	**51,648**
Total Western World	**147,030**	**98,253**	**100,651**	**131,381**	**135,693**	**126,181**	**138,150**	**157,234**	**161,926**	**153,083**
Czechoslovakia	100	150	200	200	223	230	230	262	283	300 E
U.S.S.R.	54,023	55,826	59,800	63,100	65,607	66,500	68,800	67,973	68,700	68,000
Total Eastern Europe	**54,123**	**55,976**	**60,000**	**63,300**	**65,830**	**66,730**	**69,030**	**68,235**	**68,983**	**68,300**
P.R. China	2,010	2,090	2,280	2,310	2,790	3,620	4,320	5,810	6,500	7,000 E
World Total	**203,163**	**156,319**	**162,931**	**196,991**	**204,313**	**196,531**	**211,500**	**231,279**	**237,409**	**228,383**

E - estimate

Totals are of available data only.

Table 16

SINTER PRODUCTION

thousand metric tons

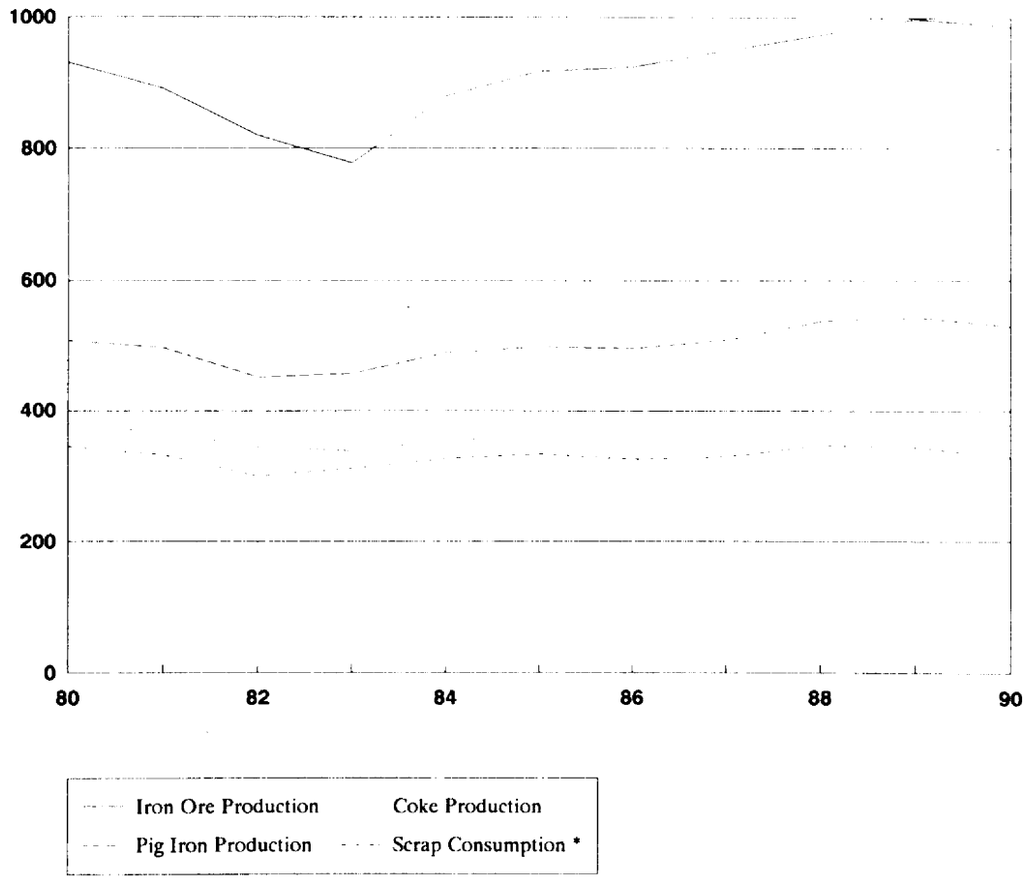
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	12,967	10,473	11,195	12,449	11,895	11,082	11,170	12,124	11,601	12,128
France	29,751	26,076	22,776	23,960	24,556	20,873	15,302	21,477	21,378	20,517
F.R. Germany	35,734	30,581	26,855	30,827	30,929	29,311	26,140	28,133	29,789	27,369
Italy	14,382	13,786	12,656	13,630	14,515	13,478	13,008	13,071	12,311	13,114
Luxembourg (C: 1988-90)	5,241	4,687	4,510	4,891	4,952	4,431	4,101	4,560	4,870	4,800
Netherlands	2,979	2,508	2,653	3,523	3,742	3,706	3,682	3,935	4,042	3,945
Portugal	357	247	440	444	477	492	429	452	395	344
Spain	9,079	8,567	8,253	7,410	7,465	6,919	6,600	5,433	6,228	6,177
United Kingdom	11,381	10,141	9,869	10,326	10,864	9,915	11,550	13,067	13,282	13,730
E.C. Total	**121,871**	**107,066**	**99,207**	**107,460**	**109,395**	**100,207**	**91,982**	**102,252**	**103,896**	**102,124**
Austria	5,785	5,346	5,551	5,866	5,696	5,259	4,814	4,431	4,775	4,380
Finland	2,940	3,005	2,809	2,854	2,637	2,761	2,837	2,970	3,057	3,060
Norway	1,000	711	732	627	666	620	633	673	297	0
Sweden	1,108	1,028	1,116	1,097	1,127	1,100	1,050	1,091	1,141	1,123
Turkey	2,271	2,678	2,869	3,034	3,303	2,916	3,968	4,527	3,192	4,508
Yugoslavia	3,962	3,893	4,005	4,064	4,305	3,905	3,756	3,777	3,780	3,300 E
Other Western Europe	**17,066**	**16,661**	**17,082**	**17,542**	**17,734**	**16,561**	**17,058**	**17,469**	**16,242**	**16,371**
Total Western Europe	**138,937**	**123,727**	**116,289**	**125,002**	**127,129**	**116,768**	**109,040**	**119,721**	**120,138**	**118,495**
Canada	2,114	1,392	2,021	2,727	2,574	2,114	1,392	1,396	1,906	1,900
United States	26,269	16,414	16,415	17,177	16,264	13,247	14,462	15,497	13,664	13,432
Japan	98,149	93,041	85,710	93,947	93,929	87,509	86,447	94,933	98,190	96,509
Australia	6,183	5,662	5,431	5,772	6,092	5,773	5,273	6,041	6,045	6,315
Total Industrial Cts.	**271,652**	**240,236**	**225,866**	**244,625**	**245,988**	**225,411**	**216,614**	**237,588**	**239,943**	**236,651**
Argentina	809	833	815	820	876	881	904	811	928	851
Brazil	10,629	12,347	14,417	18,880	20,817	21,471	21,871	24,952	24,703	21,395
Colombia	315	338	361	259	324	390	405	396	400	414
Mexico	1,157	1,097	1,096	1,136	1,187	1,277	1,073	936	883	918
Total Latin America	**12,910**	**14,615**	**16,689**	**21,095**	**23,204**	**24,019**	**24,253**	**27,095**	**26,914**	**23,578**
India	7,039	7,600	7,480	8,102	8,115	8,134	9,021	9,315	10,189	12,000 E
Philippines	3,574	3,798	3,101	3,948	3,900	3,774	4,307	4,607	4,679	4,402
Republic of Korea	11,624	12,311	11,552	12,295	12,320	12,502	15,662	19,991	21,011	23,491
Taiwan (R.O.C.) (C)	2,006	4,210	4,925	4,788	4,897	5,266	5,383	8,154	8,482	8,053
Total Developing Cts.	**37,153**	**42,534**	**43,747**	**50,228**	**52,436**	**53,695**	**58,626**	**69,162**	**71,275**	**71,524**
Total Western World	**308,805**	**282,770**	**269,613**	**294,853**	**298,424**	**279,106**	**275,240**	**306,750**	**311,218**	**308,175**
Bulgaria (E: 1981-84)	2,700	3,000	3,000	3,000	3,196	3,000	2,717	2,287	2,365	1,863
Czechoslovakia	15,007	14,747	14,315	13,587	14,008	14,150	13,000	12,464	13,076	12,950
German Dem. Rep.	3,133	3,063	3,168	3,279	3,148	3,296	3,207	3,346	3,199	2,500 E
Hungary	4,106	4,224	4,001	3,591	3,322	3,342	3,023	2,875	2,900	1,773
Poland	14,366	13,168	14,632	15,127	14,586	15,618	15,401	14,054	12,993	11,779
Romania	12,527	12,014	11,529	13,797	13,570	14,021	14,000	13,880	13,002	8,846
U.S.S.R.	154,657	151,846	154,500	155,000	147,347	154,466	150,600	150,342	147,407	142,900
Total Eastern Europe	**203,796**	**199,062**	**202,145**	**204,381**	**195,981**	**204,893**	**199,231**	**196,961**	**192,577**	**180,748**
P.R. China	52,910	56,070	58,620	66,760	68,180	72,920	79,410	81,500	82,500	84,000 E
World Total	**565,511**	**537,902**	**530,378**	**565,994**	**562,585**	**556,919**	**553,881**	**585,211**	**586,295**	**572,923**

E - estimate
C - consumption

Totals are of available data only.

World Production of Raw Materials

million metric tons



* - Based on available data. The countries included accounted for 82% of World crude steel production in 1990 - see Table 23 for details.

Table 17

PIG IRON PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	9,809	7,831	8,068	9,011	8,747	8,046	8,239	9,184	8,923	9,437
Denmark	0	0	0	0	0	0	0	0	0	0
France	16,961	14,715	13,500	14,710	15,071	13,982	13,449	14,786	15,071	14,415
F.R. Germany	31,876	27,621	26,598	30,203	31,531	29,018	28,517	32,453	32,777	30,098
Greece	90	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0
Italy	12,259	11,537	10,313	11,631	12,063	11,898	11,335	11,375	11,795	11,882
Luxembourg	2,889	2,587	2,316	2,768	2,754	2,650	2,305	2,519	2,684	2,645
Netherlands	4,600	3,617	3,747	4,926	4,819	4,628	4,575	4,994	5,163	4,960
Portugal	314	222	364	474	519	525	530	545	377	339
Spain	6,259	5,994	5,426	5,319	5,457	4,808	4,804	4,691	5,535	5,482
United Kingdom	9,470	8,327	9,477	9,487	10,381	9,686	12,017	13,056	12,638	12,319
E.C. Total	**94,527**	**82,451**	**79,809**	**88,529**	**91,342**	**85,241**	**85,771**	**93,603**	**94,963**	**91,577**
Austria	3,477	3,115	3,320	3,745	3,704	3,349	3,451	3,665	3,823	3,452
Finland	1,965	1,944	1,898	2,034	1,901	1,978	2,063	2,173	2,284	2,283
Norway	570	483	565	572	610	564	360	367	270	54
Sweden	1,770	1,779	2,011	2,214	2,424	2,435	2,314	2,492	2,638	2,736
Switzerland	33	10	10	54	66	79	70	70	70	70 E
Turkey	2,050	2,174	2,719	2,902	3,193	3,733	4,068	4,462	3,508	4,827
Yugoslavia	2,816	2,702	2,845	2,855	3,120	3,063	2,867	2,916	2,898	2,313
Other Western Europe	**12,681**	**12,207**	**13,368**	**14,376**	**15,018**	**15,201**	**15,193**	**16,145**	**15,490**	**15,735**
Total Western Europe	**107,208**	**94,658**	**93,177**	**102,905**	**106,360**	**100,442**	**100,964**	**109,748**	**110,453**	**107,312**
Canada	9,743	8,000	8,567	9,643	9,665	9,249	9,719	9,498	10,139	7,346
United States	66,742	39,281	44,208	47,087	45,764	39,873	43,917	50,572	50,677	49,817
Japan	80,048	77,655	72,936	80,403	80,569	74,651	73,418	79,295	80,197	80,229
Australia	6,740	5,953	5,062	5,324	5,599	5,853	5,581	5,723	6,084	6,127
South Africa	7,365	6,762	5,215	5,531	6,010	5,774	6,317	6,171	6,543	6,257
Total Industrial Cts.	**277,846**	**232,309**	**229,165**	**250,893**	**253,967**	**235,842**	**239,916**	**261,007**	**264,093**	**257,088**
Argentina	912	1,015	909	902	1,310	1,625	1,752	1,596	1,266	1,266
Brazil	10,791	10,827	12,945	17,230	18,961	20,163	20,944	23,454	24,363	21,141
Central America	0	0	0	0	0	0	0	0	0	0
Chile	592	453	539	594	580	591	617	776	679	675
Colombia	233	207	241	252	234	317	326	317	297	323
Ecuador	0	0	0	0	0	0	0	0	0	0
Mexico	3,767	3,598	3,537	3,926	3,595	3,738	3,712	3,639	3,230	3,645
Paraguay	0	0	0	0	0	0	50	80	61	58
Peru	187	161	113	4	163	216	185	166	209	120
Trinidad & Tobago	0	0	0	0	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0	0	0	0	0
Venezuela	418	202	169	326	441	493	473	485	455	314
Total Latin America	**16,900**	**16,463**	**18,453**	**23,233**	**25,283**	**27,144**	**28,059**	**30,513**	**30,560**	**27,542**

E - estimate

Table 17
(continued)

PIG IRON PRODUCTION
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	897	1,059	1,113	1,150	1,200	1,240	1,499	1,500	1,160	1,100 E
Egypt	965	1,080	898	962	950	1,066	1,069	1,112	1,105	1,100 E
Nigeria	0	0	0	0	0	0	0	0	0	0
Tunisia	158	97	147	148	142	149	163	128	155	148
Zimbabwe	643	478	584	400	674	644	560	503	539	484
Other Africa	20	20	20	20	20	20	20	20	20	20 E
Total Africa	**2,683**	**2,734**	**2,762**	**2,680**	**2,986**	**3,119**	**3,311**	**3,263**	**2,979**	**2,852**
Iran (E)	210	220	240	250	250	250	250	250	250	250 E
Israel	0	0	0	0	0	0	0	0	0	0 E
Qatar	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	0	0	0	0	0	0	0	0	0	0
Total Middle East	**210**	**220**	**240**	**250**	**250**	**250**	**250**	**250**	**250**	**250**
Bangladesh	0	0	0	0	0	0	0	0	0	0
Hong Kong	0	0	0	0	0	0	0	0	0	0
India	9,474	9,640	9,162	9,485	9,840	10,514	10,923	11,714	12,074	12,645
Indonesia	0	0	0	0	0	0	0	0	0	0
Malaysia	0	0	0	0	0	0	0	0	0	0
Pakistan	130	450	490	550	803	895	905	905	910	910 E
Philippines	0	0	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0
Republic of Korea	7,925	8,443	8,024	8,763	8,833	9,003	11,057	12,578	14,846	15,339
Taiwan (R.O.C.)	1,609	2,693	3,416	3,314	3,400	3,692	3,732	5,487	5,780	5,491
Thailand	10	6	10	10	10	10	10	10	10	10 E
Total Asia	**19,148**	**21,232**	**21,102**	**22,122**	**22,886**	**24,114**	**26,627**	**30,694**	**33,620**	**34,395**
Total Developing Cts.	**38,941**	**40,649**	**42,557**	**48,285**	**51,405**	**54,627**	**58,247**	**64,720**	**67,409**	**65,039**
Total Western World	**316,787**	**272,958**	**271,722**	**299,178**	**305,372**	**290,469**	**298,162**	**325,727**	**331,502**	**322,128**
Bulgaria	1,515	1,562	1,626	1,583	1,712	1,605	1,656	1,483	1,499	1,143
Czechoslovakia	9,903	9,525	9,466	9,561	9,562	9,573	9,788	9,706	9,911	9,667
German Dem. Rep.	2,421	2,136	2,196	2,343	2,565	2,726	2,743	2,786	2,732	2,159
Hungary	2,212	2,198	2,047	2,098	2,100	2,061	2,109	2,093	1,954	1,708
Poland	8,870	8,098	9,386	9,533	9,335	10,096	10,023	9,929	9,167	8,423
Romania	8,857	8,637	8,190	9,557	9,212	9,329	9,500	8,941	9,051	6,355
U.S.S.R.	107,766	106,723	110,453	110,893	109,977	113,840	113,900	114,559	113,928	110,167
Total Eastern Europe	**141,544**	**138,879**	**143,364**	**145,568**	**144,463**	**149,230**	**149,719**	**149,497**	**148,242**	**139,622**
China	34,166	35,510	37,378	40,062	43,840	50,640	55,030	57,040	58,200	62,606
D.P.R. Korea (E)	5,000	5,250	5,500	5,750	5,750	5,800	5,900	5,900	5,900	5,900 E
Total C.P.E.s	**180,710**	**179,639**	**186,242**	**191,380**	**194,053**	**205,670**	**210,649**	**212,437**	**212,342**	**208,127**
World Total	**497,497**	**452,597**	**457,964**	**490,558**	**499,425**	**496,139**	**508,811**	**538,164**	**543,844**	**530,255**

E - estimate

These figures exclude direct reduced iron.

Table 17A

MONTHLY IRON PRODUCTION

thousand metric tons

Pig Iron:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Belgium	854	778	875	777	844	749	700	788	775	794	824
France	1,201	1,151	1,296	1,239	1,271	1,256	1,258	919	1,215	1,225	1,186
F.R. Germany (1)	2,801	2,674	2,948	2,717	2,816	2,609	2,648	2,588	2,652	2,749	2,708
Italy	986	958	1,031	1,032	1,041	1,045	820	1,066	1,028	985	914
Luxembourg	234	200	236	221	212	216	230	221	221	229	221
Netherlands	403	392	398	425	400	433	448	441	418	384	360
Portugal	33	28	34	34	32	38	35	29	32	34	10
Spain	461	427	432	472	411	479	486	462	472	490	472
United Kingdom	1,075	950	1,069	1,084	1,098	997	1,013	941	1,047	1,082	1,013
E.C. Total	**8,048**	**7,558**	**8,319**	**8,000**	**8,125**	**7,822**	**7,638**	**7,456**	**7,859**	**7,971**	**7,707**
Austria	279	287	312	309	300	284	276	276	290	306	297
Finland	201	175	199	199	192	189	162	198	172	206	183
Sweden	255	223	258	259	253	210	7	204	246	254	254
Turkey	392	373	416	418	432	406	415	404	395	389	394
Yugoslavia	216	207	215	200	205	210	182	209	165	188	178
Canada	769	699	821	781	858	812	685	250	250	350	470
United States	4,207	3,829	4,247	4,127	4,306	4,110	4,224	4,344	4,199	4,239	4,103
Argentina	165	156	168	148	147	146	134	168	158	184	173
Brazil (2)	1,547	1,359	1,490	1,212	1,187	1,122	1,232	1,116	1,366	1,505	1,394
Chile	51	46	50	46	48	48	66	70	68	71	56
Mexico	322	296	317	334	282	281	294	312	320	317	308
Venezuela	34	35	38	40	35	34	35	28	26	9	0
India	1,137	991	1,148	1,036	944	970	1,034	1,008	1,039	1,096	1,098
Taiwan (R.O.C.)	463	415	462	448	462	436	466	467	448	481	461
Republic of Korea	1,289	1,171	1,300	1,255	1,294	1,238	1,271	1,255	1,224	1,320	1,300
Japan	7,004	6,052	6,561	6,409	6,759	6,521	6,748	6,951	6,542	6,982	6,670
Australia	534	440	484	498	518	476	515	551	526	521	539
South Africa	547	453	485	526	560	541	566	527	516	499	508
Zimbabwe	38	45	49	49	43	43	54	51	45	35	34
Total 28 countries	**27,498**	**24,810**	**27,338**	**26,293**	**26,950**	**25,898**	**26,003**	**25,845**	**25,855**	**26,923**	**26,126**
Czechoslovakia	853	794	865	823	851	751	783	769	441	1,124	797
former G.D.R. (3)	229	206	226	225	221	199	187	162	155	119	125
Hungary	170	159	130	142	158	152	141	107	111	131	147
Poland	708	671	752	688	715	735	690	688	691	707	650
U.S.S.R.	9,596	8,831	9,842	9,333	9,529	9,154	9,181	9,127	8,771	8,977	8,658
P.R. China	4,823	4,364	5,029	4,985	5,220	5,111	5,131	5,365	5,418	5,602	5,371
Total 33 countries	**43,648**	**39,629**	**43,956**	**42,264**	**43,423**	**41,801**	**41,929**	**41,901**	**41,287**	**43,464**	**41,749**
Direct Reduced Iron:											
Argentina	33	94	107	79	78	99	30	105	96	103	104
Brazil	24	22	23	21	22	21	20	23	26	26	13
Mexico	205	159	173	181	229	225	226	227	233	235	172
Venezuela	242	271	296	247	255	241	290	285	218	175	283
Canada	68	62	69	66	62	57	71	62	45	41	66
Qatar	53	45	54	44	42	40	53	51	47	51	50
Saudi Arabia	100	57	29	97	99	101	96	106	99	102	96
Nigeria	0	7	14	18	11	10	16	7	15	0	9
Total D.R.I.	**724**	**715**	**767**	**752**	**798**	**794**	**802**	**866**	**779**	**734**	**792**

E = estimated

(1) - including former G.D.R.

(2) - series excludes independent producers who do not make crude steel.

(3) - excluded from totals to avoid double counting.

Table 17A
(continued)

MONTHLY IRON PRODUCTION

thousand metric tons

Dec	1990 Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	1991 Year-to-date
659	**9,417**	812	766	831	817	824	789	687	668	787	**6,981**
1,197	**14,415**	1,239	1,119	1,257	1,193	1,242	1,255	1,079	845	1,029	**10,259**
2,348	**32,258**	2,676	2,588	2,750	2,695	2,648	2,672	2,586	2,304	2,488	**23,408**
976	**11,882**	944	881	998	944	879	848	951	704	922	**8,071**
205	**2,645**	152	196	216	214	220	221	218	195	220	**1,851**
458	**4,958**	448	395	341	345	355	380	381	431	412	**3,488**
0	**339**	0	0	17	24	25	25	26	25	32	**174**
478	**5,542**	484	433	465	472	463	485	450	462	467	**4,181**
899	**12,268**	969	830	988	1,050	1,115	1,070	960	835	1,033	**8,849**
7,220	**93,724**	**7,723**	**7,208**	**7,864**	**7,754**	**7,772**	**7,745**	**7,338**	**6,468**	**7,389**	**67,261**
237	**3,453**	303	287	304	296	291	295	308	291	275	**2,651**
209	**2,283**	205	176	206	200	200	182	158	194	195	**1,715**
314	**2,736**	261	234	256	255	253	227	17	221	259	**1,984**
393	**4,826**	362	344	409	386	419	386	393	417	386	**3,502**
139	**2,314**	140	103	142	148	103	116	54	90	128	**1,024**
600	**7,346**	681	679	718	663	693	691	590	687	704	**6,105**
3,868	**49,803**	3,699	3,148	3,671	3,474	3,525	3,474	3,791	3,738	3,671	**32,192**
170	**1,918**	171	154	116	142	139	131	123	111	128	**1,215**
1,498	**16,027**	1,465	1,362	1,551	1,544	1,596	1,365	1,454	1,574	1,601	**13,512**
55	**675**	39	63	73	68	72	71	71	73	74	**604**
253	**3,635**	338	272	292	268	203	183	171	199	228	**2,154**
0	**314**	0	0	0	0	0	0	0	0	0	
1,146	**12,645**	1,237	1,109	1,262	1,114	1,073	1,057	1,119	1,183	1,202	**10,356**
482	**5,491**	471	404	478	466	369	428	491	500	482	**4,088**
1,423	**15,339**	1,558	1,408	1,589	1,510	1,553	1,497	1,570	1,566	1,534	**13,784**
7,029	**80,229**	7,021	6,307	6,979	6,738	6,878	6,523	6,894	6,891	6,522	**60,752**
523	**6,127**	454	413	384	356	397	420	535	587	522	**4,068**
528	**6,257**	582	517	613	616	637	633	614	580	652	**5,442**
41	**527**	46	32	46	16	35	50	49	51	54	**379**
26,129	**315,669**	**26,755**	**24,218**	**26,952**	**26,013**	**26,208**	**25,474**	**25,739**	**25,423**	**26,006**	**232,788**
817	**9,668**	851	773	806	818	814	676	687	659	630	**6,714**
111	**2,165**	118	108	102	80	106	100	87	77	88	**866**
145	**1,693**	143	136	143	121	130	107	108	76	91	**1,055**
657	**8,352**	683	574	684	585	574	460	470	471	497	**4,998**
9,168	**110,167**	9,285	8,096	8,684	6,602	7,648	7,928	7,637	7,706	7,103	**70,689**
6,187	**62,606**	5,236	4,932	5,475	5,210	5,441	5,428	5,716	5,884	5,700	**49,022**
43,103	**508,154**	**42,953**	**38,729**	**42,744**	**39,349**	**40,815**	**40,073**	**40,357**	**40,219**	**40,027**	**365,265**
107	**1,035**	66	34	80	52	48	82	90	98	94	**645**
20	**260**	19	17	17	17	17	12	21	22	20	**164**
213	**2,478**	273	201	222	216	230	230	183	217	224	**1,995**
326	**3,128**	279	265	283	290	268	257	293	241	242	**2,418**
63	**732**	58	52	62	58	54	55	0	0	46	**385**
45	**574**	52	47	47	50	51	48	26	50	51	**421**
102	**1,085**	103	93	103	100	103	102	102	105	100	**912**
6	**112**	0	0	12	15	15	13	15	15	15	**100**
881	**9,403**	**850**	**709**	**827**	**798**	**787**	**799**	**730**	**749**	**792**	**7,040**

Table 18

PIG IRON EXPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	9	4	2	3	4	6	11	15	20	13
France	191	174	136	192	233	12	54	55	40	11
F.R. Germany	929	829	544	581	722	545	541	389	404	617
Italy	5	8	29	18	31	73	28	48	47	38
Netherlands	6	7	13	9	19	19	11	4	3	2
Spain	19	0	6	19	46	31	1	61	63	9
United Kingdom	38	34	69	61	83	65	31	23	21	21
E.C. Total	**1,197**	**1,056**	**799**	**883**	**1,138**	**751**	**677**	**595**	**598**	**711**
Austria	6	5	5	7	9	8	7	19	20	7
Finland	0	0	1	1	0	0	0	0	0	0
Norway	71	65	44	28	32	23	14	31	52	50
Sweden	45	30	26	3	7	9	3	12	14	5
Turkey	0	0	16	60	55	55	55	89	100	100 E
Yugoslavia	23	12	6	5	20	15	43	8	24	36
Other Western Europe	**145**	**112**	**98**	**104**	**123**	**110**	**122**	**159**	**210**	**198**
Total Western Europe	**1,342**	**1,168**	**897**	**987**	**1,261**	**861**	**799**	**754**	**808**	**909**
Canada	466	485	348	392	574	520	447	355	418	117
United States	15	49	6	51	29	43	45	65	11	14
Japan	12	61	345	292	1,085	1,074	51	43	25	25
Australia	158	300	350	100	100	70	420	149	141	277
South Africa	99	93	0	232	370	600	650	650	650	700 E
Total Industrial Cts.	**2,092**	**2,156**	**1,946**	**2,054**	**3,419**	**3,167**	**2,413**	**2,016**	**2,052**	**2,042**
Brazil	714	693	1,801	2,473	2,476	2,370	2,045	2,537	2,989	3,489
Zimbabwe	10	5	0	0	0	7	9	2	0	2
India	0	0	0	0	0	0	0	0	0	0
Indonesia*	82	117	62	70	87	96	75	139	54	68
Republic of Korea	70	41	10	1	0	1	2	1	0	0
Singapore	8	10	7	7	4	1	1	2	1	7
Taiwan (R.O.C.)	1	0	3	1	1	4	0	0	1	1
Total Developing Cts.	**885**	**866**	**1,883**	**2,552**	**2,568**	**2,479**	**2,132**	**2,681**	**3,045**	**3,567**
Total Western World	**2,977**	**3,021**	**3,829**	**4,607**	**5,987**	**5,646**	**4,545**	**4,697**	**5,097**	**5,609**
Bulgaria	8	16	38	262	80	52	69	8	0	7
Czechoslovakia	0	0	0	0	0	0	115	240	0	1
German Dem. Rep.	27	6	9	11	6	6	7	5	5	5 E
Hungary	0	0	5	21	0	0	0	0	53	18
Poland	0	0	0	0	0	0	0	0	0	0
U.S.S.R. (E)	4,500	4,750	4,750	4,750	4,465	5,512	5,963	6,141	6,517	6,000 E
Total Eastern Europe	**4,535**	**4,772**	**4,802**	**5,044**	**4,551**	**5,570**	**6,154**	**6,394**	**6,575**	**6,031**
China	343	1,252	68	7	4	0	268	250	250	250 E
D.P.R. Korea	66	51	31	68	69	70	66	65	65	65 E
World Total	**7,921**	**9,096**	**8,730**	**9,726**	**10,611**	**11,286**	**11,033**	**11,406**	**11,987**	**11,955**

E - estimate

* - including D.R.I.

Table 19

PIG IRON IMPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Belgium-Luxembourg	92	91	48	94	113	122	132	254	325	107	
Denmark	51	66	32	43	62	80	82	80	119	107	
France	406	370	365	412	480	372	386	279	273	313	
F.R. Germany	270	276	235	275	275	335	327	238	278	1,187	
Greece	17	14	17	7	9	20	10	10	77	91	
Ireland	2	2	0	1	2	2	1	4	2	1	
Italy	352	417	324	417	341	450	592	749	897	1,026	
Netherlands	44	43	38	54	50	57	56	72	76	61	
Portugal	75	49	55	48	41	34	19	23	25	17	
Spain	41	104	100	138	178	140	115	138	180	207	
United Kingdom	129	168	106	103	118	133	125	193	64	135	
E.C. Total	**1,479**	**1,600**	**1,320**	**1,592**	**1,669**	**1,745**	**1,845**	**2,039**	**2,316**	**3,252**	
Austria	82	78	38	51	55	44	42	43	67	49	
Finland	25	23	15	12	20	19	17	14	19	52	
Norway	15	10	10	8	9	7	7	2	5	6	
Sweden	37	58	38	39	47	57	51	65	48	43	
Switzerland	83	82	80	80	70	60	60	60	60	60	E
Turkey	1	0	68	43	50	125	125	144	150	180	E
Yugoslavia	71	99	65	66	55	65	27	39	111	93	
Other Western Europe	**314**	**350**	**314**	**299**	**306**	**377**	**329**	**368**	**459**	**483**	
Total Western Europe	**1,793**	**1,950**	**1,634**	**1,891**	**1,975**	**2,122**	**2,174**	**2,406**	**2,775**	**3,735**	
Canada	7	2	5	5	10	12	10	9	4	4	
United States	393	292	220	637	307	268	322	635	443	347	
Japan	1,086	1,381	1,001	823	748	968	1,433	2,917	2,288	3,283	
South Africa	0	0	0	0	0	0	0	0	0	0	E
Total Industrial Cts.	**3,279**	**3,625**	**2,860**	**3,356**	**3,040**	**3,370**	**3,939**	**5,967**	**5,510**	**7,369**	
Argentina	10	122	205	177	32	0	0	91	2	0	
Hong Kong	23	12	12	6	4	4	7	8	4	2	
India	117	427	204	0	0	47	30	192	356	170	
Indonesia	75	84	88	96	81	101	18	125	177	170	
Republic of Korea	64	72	105	166	99	386	673	801	1,063	981	
Philippines	2	4	1	0	0	22	71	20	20	20	E
Singapore	63	103	57	9	47	60	14	120	178	76	
Taiwan (R.O.C.)	188	148	224	218	178	302	628	738	583	607	
Thailand	27	15	13	15	16	15	15	15	15	15	E
Total Developing Cts.	**569**	**987**	**909**	**687**	**457**	**937**	**1,456**	**2,110**	**2,398**	**2,041**	
Total Western World	**3,848**	**4,612**	**3,769**	**4,043**	**3,497**	**4,307**	**5,395**	**8,077**	**7,908**	**9,410**	
Bulgaria	435	400	408	665	412	425	469	369	31	309	
Czechoslovakia	843	901	780	745	869	809	728	675	672	660	
German Dem. Rep.	721	945	890	904	1,103	1,158	1,369	1,350	1,300	1,300	E
Hungary	291	235	295	281	274	255	263	352	401	213	
Poland	1,449	1,273	1,133	1,188	1,330	1,391	1,338	1,282	1,203	1,289	
Romania (E: 1986-88)	282	280	210	165	117	100	100	100	90	95	
U.S.S.R. (E)	30	30	30	30	30	30	30	106	0	0	E
Total Eastern Europe	**4,051**	**4,064**	**3,746**	**3,978**	**4,135**	**4,168**	**4,297**	**4,234**	**3,697**	**3,866**	
China	12	0	749	1,119	2,911	2,804	1,400	880	768	1,215	
Total C.P.E.s	**4,063**	**4,064**	**4,495**	**5,097**	**7,046**	**6,972**	**5,697**	**5,114**	**4,465**	**5,081**	
World Total	**7,911**	**8,676**	**8,264**	**9,140**	**10,543**	**11,279**	**11,092**	**13,191**	**12,373**	**14,491**	

E - estimate

Table 20

IRON ORE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	0	0	0	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0	0	0	0
France	21,489	19,670	16,180	15,030	14,480	12,560	11,566	9,872	9,319	8,720
F.R. Germany	1,575	1,314	979	979	1,034	717	247	70	102	84
Greece (E: 1986-90)	1,280	515	1,300	1,452	1,712	1,500	1,500	1,500	1,500	1,500 E
Ireland	0	0	0	0	0	0	0	0	0	0
Italy	120	10	0	0	0	0	0	0	0	0
Luxembourg	492	40	40	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Portugal	37	27	36	36	73	50	30	25	20	20 E
Spain	8,483	8,261	7,940	7,961	6,463	6,054	4,492	4,262	4,610	3,030
United Kingdom	731	470	384	379	274	289	263	224	32	53
E.C. Total	**34,207**	**30,307**	**26,859**	**25,837**	**24,036**	**21,170**	**18,098**	**15,953**	**15,583**	**13,407**
Austria	3,048	3,330	3,540	3,600	3,300	3,120	3,050	2,300	2,410	2,300
Finland	1,060	1,086	1,046	1,040	914	643	648	557	0	0
Norway	4,068	3,270	3,540	3,840	3,470	3,660	3,140	2,644	2,358	2,081
Sweden	23,377	16,138	13,534	18,122	20,265	20,473	19,707	20,447	21,763	19,877
Turkey	2,983	3,083	3,501	3,958	4,573	4,705	5,213	5,443	4,091	6,155
Yugoslavia	4,793	5,105	5,018	5,315	5,478	6,618	5,983	5,543	4,438	4,132
Other Western Europe	**39,329**	**32,012**	**30,179**	**35,875**	**38,000**	**39,219**	**37,741**	**36,934**	**35,060**	**34,545**
Total Western Europe	**73,536**	**62,319**	**57,038**	**61,712**	**62,036**	**60,389**	**55,839**	**52,887**	**50,643**	**47,952**
Canada	51,985	35,592	33,326	39,930	39,798	36,679	36,520	40,409	41,142	35,775
United States	75,188	36,000	38,574	52,097	49,277	39,613	46,992	56,444	57,872	55,468
Japan	441	362	298	331	360	293	415	277	251	208
Australia (1)	84,661	87,694	71,485	89,046	97,447	94,015	101,748	96,084	105,810	112,000
New Zealand	3,480	2,980	2,200	2,290	2,520	2,910	2,580	2,352	2,400	1,298
South Africa	25,300	24,600	16,605	24,647	24,414	24,483	22,008	25,248	29,958	30,291
Total Industrial Cts.	**314,591**	**249,547**	**219,526**	**270,053**	**275,852**	**258,382**	**266,102**	**273,701**	**288,076**	**282,992**
Argentina	382	583	590	572	578	788	844	1,162	1,266	1,266
Bolivia (1)								15	14	125
Brazil	97,850	93,147	88,695	111,311	128,200	129,500	134,700	145,040	153,740	154,370
Chile	7,650	5,760	5,170	5,590	5,840	6,326	6,131	7,295	8,112	7,811
Colombia	433	470	456	441	455	523	615	615	600	628
Mexico	8,736	8,795	7,888	10,544	8,103	7,581	7,374	7,987	7,538	8,114
Peru (1)	6,069	5,931	4,225	4,031	4,992	5,195	5,567	4,158	3,935	3,307
Venezuela	15,531	11,701	9,449	13,055	14,764	16,207	17,196	18,473	18,052	20,119
Total Latin America	**136,651**	**126,387**	**116,473**	**145,544**	**162,932**	**166,120**	**172,427**	**184,745**	**193,257**	**195,740**

(1) - dry weight

E - estimate

Table 20
(continued)

IRON ORE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Algeria	3,481	3,892	3,684	3,664	3,376	3,359	3,382	3,118	2,748	2,930	
Angola	0	0	0	0	0	0	0	0	0	0	
Egypt	2,015	2,155	2,007	1,955	2,066	2,013	1,112	2,274	2,493	2,420	
Liberia	19,540	18,000	15,410	16,100	16,120	15,600	13,806	12,808	12,300	3,981	
Mauritania	8,473	8,210	6,600	9,000	9,203	9,262	9,120	9,782	12,114	11,416	
Morocco	73	224	252	250	140	200	204	117	126	50	
Sierra Leone	0	10	360	420	70	0	0	0	0	0	
Tunisia	400	270	313	309	307	310	290	226	190	191	
Zimbabwe	1,386	1,083	1,168	1,226	1,419	1,502	1,720	1,249	1,471	1,580	
Total Africa	**35,368**	**33,844**	**29,794**	**32,924**	**32,701**	**32,246**	**29,634**	**29,574**	**31,442**	**22,568**	
India	41,618	42,752	38,089	42,310	44,090	51,169	51,335	49,961	51,434	50,000	E
Indonesia	100	140	120	100	130	160	190	200	0	0	
I.R. Iran					1,000	2,000	3,000	4,300	5,630	5,500	E
Republic of Korea	426	541	553	502	561	525	500	435	422	375	
Malaysia	528	400	100	160	182	208	161	209	193	300	
Philippines	0	0	0	0	0	0	0	0	0	0	
Thailand	60	30	70	70	94	37	97	99	160	120	E
Total Asia	**42,732**	**43,863**	**38,932**	**43,142**	**46,057**	**54,099**	**55,283**	**55,204**	**57,839**	**56,295**	
Total Developing Cts.	**214,751**	**204,094**	**185,199**	**221,610**	**241,690**	**252,465**	**257,344**	**269,523**	**282,538**	**274,603**	
Total Western World	**529,342**	**453,641**	**404,725**	**491,663**	**517,542**	**510,847**	**523,446**	**543,224**	**570,613**	**557,595**	
Bulgaria	1,754	1,552	1,803	2,063	1,985	2,179	1,857	1,826	1,613	1,079	
Czechoslovakia	1,935	1,861	1,903	1,869	1,824	1,784	1,798	1,773	1,780	1,710	
German Dem. Rep.	41	41	40	36	0	0	0	0	0	0	
Hungary	196	214	215	193	184	0	0	0	0	0	
Poland	105	49	10	11	12	9	6	6	7	5	E
Romania	2,304	2,146	1,987	1,916	2,287	2,431	2,281	2,000	2,000	578	
U.S.S.R.	242,416	244,410	245,189	247,104	247,700	249,976	250,900	248,000	241,348	236,200	
Total Eastern Europe	**248,751**	**250,273**	**251,147**	**253,192**	**253,992**	**256,379**	**256,842**	**253,605**	**246,748**	**239,572**	
China	104,590	107,320	113,660	126,710	137,835	149,450	161,430	167,700	171,854	179,344	
D.P.R. Korea (E)	8,000	8,000	8,000	8,000	8,000	8,000	8,000	9,500	9,500	9,500	E
Total C.P.E.s	**361,341**	**365,593**	**372,807**	**387,902**	**399,827**	**413,829**	**426,272**	**430,805**	**428,102**	**428,416**	
World Total	**890,683**	**819,234**	**777,532**	**879,565**	**917,369**	**924,676**	**949,718**	**974,029**	**998,715**	**986,011**	

(1) - dry weight
E - estimate

Table 21

IRON ORE EXPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	19	0	1	0	15	1	3	7	11	16
Denmark	9	15	12	7	7	5	3	4	2	4
France	6,378	5,837	5,031	4,752	4,628	4,169	3,740	3,725	3,462	3,280
F.R. Germany	6	6	8	3	3	5	6	20	7	4
Italy	0	1	1	0	1	0	0	0	0	0
Netherlands	240	149	14	22	55	49	105	223	127	82
Portugal	0	0	0	2	0	0	2	0	0	0
Spain	1,147	1,869	1,579	1,973	2,128	1,791	1,991	2,282	1,632	1,633
United Kingdom	20	1	1	0	6	1	1	2	2	2
E.C. Total	**7,819**	**7,878**	**6,647**	**6,759**	**6,843**	**6,021**	**5,851**	**6,263**	**5,244**	**5,022**
Austria	0	0	0	1	0	8	1	0	0	0
Finland	23	0	0	0	0	0	0	0	0	0
Norway	3,660	2,336	2,946	3,083	2,579	2,532	2,531	1,744	1,987	2,113
Sweden	17,709	12,597	14,279	17,615	18,241	17,137	16,762	17,553	17,464	16,430
Yugoslavia	29	21	0	0	0	0	0	0	8	533
Other Western Europe	**21,421**	**14,954**	**17,225**	**20,699**	**20,820**	**19,677**	**19,294**	**19,297**	**19,459**	**19,076**
Total Western Europe	**29,240**	**22,832**	**23,872**	**27,458**	**27,663**	**25,698**	**25,145**	**25,560**	**24,703**	**24,098**
Canada	41,452	27,281	25,528	30,737	32,266	31,008	29,679	30,523	30,222	27,038
United States	5,635	3,229	3,841	5,073	5,114	4,553	5,093	5,285	5,895	3,506
Australia	74,500	75,400	76,900	88,700	88,000	82,600	80,600	98,300	108,100	100,316
New Zealand	2,824	2,299	2,462	2,200	2,120	2,217	1,791	1,464	1,400	1,014
South Africa	13,714	11,356	7,811	11,870	10,226	8,850	8,802	11,503	14,566	17,029
Total Industrial Cts.	**167,365**	**142,397**	**140,414**	**166,038**	**165,389**	**154,926**	**151,110**	**172,635**	**184,886**	**173,001**
Brazil	85,798	80,444	69,008	87,179	89,394	91,603	95,332	112,815	118,472	113,511
Chile	6,830	5,502	4,719	5,232	4,816	4,846	5,329	6,397	7,422	6,546
Peru	5,156	5,596	4,182	4,091	5,242	4,212	4,430	4,668	4,014	3,306
Venezuela	12,422	6,616	6,245	8,456	9,032	10,027	11,698	12,460	14,437	13,620
Total Latin America	**110,206**	**98,158**	**84,154**	**104,958**	**108,484**	**110,688**	**116,789**	**136,340**	**144,345**	**136,983**
Algeria	1,507	1,444	1,302	1,051	7	48	13	22	20	18
Angola	0	0	100	0	0	0	0	0	0	0
Liberia	20,694	16,304	15,704	16,870	16,100	13,940	13,510	13,779	12,747	3,887
Mauritania	8,609	7,753	7,402	9,527	9,333	8,929	9,002	10,004	11,138	11,356
Morocco	5	0	0	0	0	0	0	80	82	59
Sierra Leone	0	0	355	400	80	0	50	20	20	0
Total Africa	**30,815**	**25,501**	**24,863**	**27,848**	**25,520**	**22,917**	**22,575**	**23,905**	**24,007**	**15,320**
India	23,927	25,359	22,001	25,696	28,840	32,031	28,981	32,079	33,479	34,000 E
Philippines (E: 1981-5)	3,800	3,200	3,100	3,600	3,300	3,680	4,202	4,764	4,600	4,300
Total Asia	**27,727**	**28,559**	**25,101**	**29,296**	**32,140**	**35,711**	**33,183**	**36,843**	**38,079**	**38,300**
Total Developing Cts.	**168,748**	**152,218**	**134,118**	**162,102**	**166,144**	**169,316**	**172,547**	**197,088**	**206,431**	**190,603**
Total Western World	**336,113**	**294,615**	**274,532**	**328,140**	**331,533**	**324,242**	**323,657**	**369,723**	**391,317**	**363,604**
U.S.S.R.	44,132	42,836	42,805	45,922	43,880	46,168	45,433	43,063	39,880	36,300
World Total	**380,245**	**337,451**	**317,337**	**374,062**	**375,413**	**370,410**	**369,090**	**412,786**	**431,197**	**399,904**

E - estimate

Table 22

IRON ORE IMPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	21,148	18,613	17,519	19,628	18,997	18,056	18,385	20,796	19,787	20,278
Denmark	127	183	63	1	2	3	8	3	6	3
France	16,511	14,943	12,553	16,088	16,220	16,191	15,056	18,727	19,955	18,807
F.R. Germany	44,288	38,470	33,942	43,941	45,142	41,803	39,585	45,169	47,171	43,730
Greece	0	0	0	0	0	2	0	0	0	0
Ireland	0	0	0	0	0	0	1	2	3	0
Italy	15,196	16,065	13,798	19,239	18,293	17,601	16,523	16,196	18,201	17,202
Netherlands	6,659	6,160	4,979	7,235	8,509	7,361	7,029	7,559	8,151	8,302
Portugal	524	263	471	375	683	543	764	477	689	449
Spain	4,687	4,620	4,202	4,220	5,023	4,287	5,767	5,645	7,121	6,705
United Kingdom	14,643	10,572	13,169	14,160	15,405	14,558	18,028	17,867	19,179	17,622
E.C. Total	**123,783**	**109,889**	**100,696**	**124,887**	**128,274**	**120,405**	**121,146**	**132,440**	**140,263**	**133,098**
Austria	3,423	3,241	2,391	3,890	3,684	3,204	3,311	4,164	4,188	3,908
Finland	1,496	1,494	1,300	1,857	1,756	1,987	2,261	2,336	3,016	3,158
Iceland	16	12	13	16	23	25	17	23	17	18
Norway	11	48	226	40	230	18	21	193	23	12
Sweden	1	5	19	39	68	67	70	129	255	317
Switzerland	50	6	8	10	6	11	9	12	0	0
Turkey	728	1,064	1,546	1,849	1,747	2,428	1,532	2,369	2,243	1,952
Yugoslavia	1,360	1,477	1,568	1,566	2,180	1,347	1,081	1,486	2,305	1,998
Other Western Europe	**7,085**	**7,347**	**7,071**	**9,267**	**9,694**	**9,087**	**8,302**	**10,712**	**12,047**	**11,363**
Total Western Europe	**130,868**	**117,236**	**107,767**	**134,154**	**137,968**	**129,492**	**129,448**	**143,153**	**152,310**	**144,461**
Canada	5,792	3,357	4,013	4,947	5,800	5,367	5,213	4,791	5,348	4,113
United States	28,782	14,734	13,459	17,463	16,024	17,011	16,849	20,183	19,596	18,054
Australia	47	91	52	52	24	59	42	469	1,405	1,099
Japan	123,361	121,810	109,152	125,371	124,511	115,234	112,036	123,376	127,709	125,290
Total Industrial Cts.	**288,850**	**257,228**	**234,443**	**281,987**	**284,327**	**267,163**	**263,588**	**291,972**	**306,368**	**293,017**
Argentina	2,013	1,913	1,691	2,199	2,459	3,182	3,342	3,131	3,816	3,245
Mexico	0	0	0	0	2	100	45	459	551	508
Trinidad & Tobago (E: 1981-84)	270	340	410	340	334	341	779	981	893	988
Qatar (E:1985-90)	686	715	580	752	840	800	700	800	900	1,000 E
Saudi Arabia	43	96	288	965	1,044	1,385	1,478	1,245	1,652	1,700 E
United Arab Emirates	75	190	170	100	100	180	160	140	150	150 E
Nigeria	22	215	227	353	393	0	63	143	180	200 E
Tunisia	23	24	25	12	59	25	51	59	83	97
Indonesia	701	121	128	198	1,700	2,100	1,508	1,394	1,988	2,074
Malaysia	69	25	28	414	831	1,026	819	452	912	800 E
Republic of Korea	11,201	11,793	11,497	11,962	12,620	12,394	15,987	18,710	21,635	22,707
Pakistan	313	524	914	922	1,243	1,469	1,105	1,528	1,393	1,400 E
Philippines (E: 1981-90)	3,800	3,300	3,200	3,600	3,300	3,700	4,000	4,400	4,200	4,600 E
Taiwan (R.O.C.)	2,413	4,049	4,957	5,199	4,896	5,358	6,140	8,536	8,370	7,762
Total Developing Cts.	**21,629**	**23,305**	**24,115**	**27,016**	**29,821**	**32,060**	**36,177**	**41,978**	**46,723**	**47,231**
Total Western World	**310,479**	**280,533**	**258,558**	**309,003**	**314,148**	**299,223**	**299,765**	**333,950**	**353,091**	**340,248**

E - estimate

Table 22
(continued)

IRON ORE IMPORTS
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Bulgaria	2,280	2,360	2,313	2,286	2,215	2,248	2,308	2,112	1,920	1,964
Czechoslovakia	15,682	15,290	15,305	15,024	11,268	11,264	10,366	10,058	9,765	8,700 E
German D.R.(E: 1986-90)	4,245	3,116	2,971	3,179	4,324	4,100	4,300	4,200	4,000	2,800 E
Hungary	3,765	3,757	3,967	4,170	2,382	3,414	3,403	2,885	3,263	2,882
Poland	15,870	13,493	13,787	17,127	16,973	16,644	17,116	16,668	13,441	11,013
Romania (E: 1987-8)	15,016	14,398	14,477	14,963	15,207	16,417	14,800	14,500	13,626	11,341
U.S.S.R.	0	0	0	0	0	0	0	0	0	0
Total Eastern Europe	**56,858**	**52,414**	**52,820**	**56,749**	**52,369**	**54,087**	**52,293**	**50,423**	**46,015**	**38,700**
China	3,336	3,452	4,385	5,970	10,114	12,005	12,098	10,756	12,414	14,191
D.P.R. Korea (E)	70	485	112	200	300	500	600	700	700	700 E
Total C.P.E.s	**60,264**	**56,351**	**57,317**	**62,919**	**62,783**	**66,592**	**64,991**	**61,879**	**59,129**	**53,591**
World Total	**370,743**	**336,884**	**315,875**	**371,922**	**376,931**	**365,815**	**364,756**	**395,829**	**412,220**	**393,839**

E - estimate

Table 23

SCRAP CONSUMPTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	3,749	4,142	3,157	3,520	3,112	2,581	2,502	2,999	2,915	3,063
Denmark	688	626	584	651	595	704	626	652	631	608
France	9,495	8,549	8,614	8,660	8,509	8,550	8,639	9,272	9,413	9,120
F.R. Germany	19,624	17,544	17,864	18,606	18,613	17,050	16,161	17,472	17,341	16,671
Greece	900	900	900	956	1,064	1,107	1,012	1,077	1,071	1,095
Ireland	37	69	158	189	230	233	246	303	362	364
Italy	16,929	15,958	15,153	16,405	16,480	15,699	15,721	16,417	16,500	16,000
Luxembourg	1,323	1,315	1,368	1,685	1,598	1,491	1,325	1,476	1,415	1,373
Netherlands	1,779	1,446	1,458	1,630	1,504	1,454	1,308	1,170	1,020	915
Portugal	435	466	553	565	550	375	393	468	461	477
Spain	9,011	9,111	9,793	9,898	10,693	8,737	8,326	8,722	9,203	9,232
United Kingdom	10,363	9,557	9,635	9,619	8,369	7,826	8,203	8,866	9,049	7,255
E.C. Total	**74,333**	**69,683**	**69,237**	**72,384**	**71,317**	**65,807**	**64,462**	**68,894**	**69,381**	**66,173**
Austria	1,733	1,639	1,630	1,679	1,525	1,465	1,473	1,466	1,402	1,236
Finland	732	688	708	754	760	759	739	807	850	805
Norway	507	487	523	579	542	460	632	661	496	280 E
Sweden	2,780	2,856	2,894	3,200	3,064	2,928	2,928	2,964	2,502	2,163
Turkey	800	1,224	1,575	1,500	1,771	2,500	3,400	4,200	4,500	3,112
Yugoslavia	2,108	2,037	2,208	2,250	2,219	2,289	2,221	2,127	2,200	1,800 E
Other Western Europe	**8,660**	**8,931**	**9,538**	**9,962**	**9,881**	**10,401**	**11,393**	**12,225**	**11,950**	**9,396**
Total Western Europe	**82,993**	**78,614**	**78,775**	**82,346**	**81,198**	**76,208**	**75,855**	**81,119**	**81,331**	**75,569**
Canada	7,469	5,680	6,319	7,500	7,605	7,253	7,718	7,476	7,790	6,554
United States	77,934	51,153	56,048	59,604	63,950	59,743	61,963	69,692	66,310	63,395
Japan	39,592	38,857	40,160	43,485	44,170	40,260	40,622	42,976	45,836	48,244
Australia	2,279	1,837	1,697	1,962	2,069	1,990	1,780	1,522	1,706	1,782
Total Industrial Cts.	**207,988**	**174,304**	**181,302**	**192,935**	**196,923**	**183,464**	**186,158**	**201,263**	**201,267**	**193,762**
Argentina	1,214	1,423	1,424	1,162	1,147	1,137	1,310	1,326	1,280	1,221
Brazil	5,490	5,103	5,567	6,324	6,998	7,198	7,319	7,676	8,032	6,505
Chile	...	132	190	215	219	138	219	290	279	270 E
Colombia	...	294	335	343	393	445	538	562	571	580 E
Ecuador	...	30	24	19	19	18	27	25	27	30 E
Mexico	3,282	3,023	2,162	2,886	3,096	2,951	2,580	3,422	3,010	3,350 E
Peru	...	109	169	311	233	265	311	276	175	100 E
Trinidad & Tobago	...	...	...	...	73	138	153	254	107	130 E
Uruguay	...	31	51	48	46	37	36	37	46	40 E
Venezuela	...	932	415	1,172	1,084	904	1,165	1,291	1,144	1,189
Others	...	74	67	114	101	138	137	124	110	110 E
Total Latin America	**9,986**	**11,151**	**10,404**	**12,594**	**13,409**	**13,369**	**13,795**	**15,283**	**14,781**	**13,525**
Republic of Korea	5,080	5,876	6,629	7,372	8,068	8,816	8,857	9,797	10,323	11,069
Czechoslovakia	7,479	7,426	7,861	7,579	7,685	7,640	7,700	8,127	7,683	6,847
German Dem. Rep.	5,276	5,125	5,155	5,243	5,672	5,599	5,739	5,069	5,101	5,000 E
Hungary	2,200	2,219	2,218	2,454	2,498	2,642	2,470	2,236	1,939	1,653
Poland	10,254	9,674	10,372	10,543	8,744	9,345	9,266	9,128	9,100	8,250 E
U.S.S.R.	84,000	83,700	87,100	88,300	90,100	94,500	95,200	95,400	93,000	87,900
Total Eastern Europe	**109,209**	**108,144**	**112,706**	**114,119**	**114,699**	**119,726**	**120,375**	**119,960**	**116,823**	**109,650**
World Total	**332,263**	**299,475**	**311,042**	**327,020**	**333,099**	**325,374**	**329,185**	**346,302**	**343,193**	**328,006**

E - estimate

Totals are of available data only.

Table 24

SCRAP EXPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium-Luxembourg	578	498	682	774	736	658	751	904	1,880	1,017
Denmark	185	118	175	234	270	183	223	298	280	311
France	3,184	3,082	3,227	4,105	3,961	3,161	3,228	3,703	4,286	3,704
F.R. Germany	3,407	2,867	2,977	3,268	3,407	3,418	4,218	4,597	4,847	5,043
Greece	1	1	1	1	1	1	1	3	3	2
Ireland	73	59	21	43	50	41	26	32	34	25
Italy	23	17	18	19	10	7	15	28	30	30 E
Netherlands	1,252	1,179	1,522	1,680	1,835	1,989	2,244	2,650	2,773	2,594
Portugal	5	9	10	9	16	11	7	13	21	15
Spain	1	1	1	4	1	1	16	29	60	23
United Kingdom	3,367	3,073	3,794	4,316	4,520	3,837	3,306	3,609	3,250	3,199
E.C. Total	**12,076**	**10,904**	**12,428**	**14,453**	**14,807**	**13,307**	**14,035**	**15,867**	**17,463**	**15,962**
Austria	12	9	13	21	32	22	92	47	96	342
Finland	0	0	0	10	10	0	0	0	1	0
Norway	32	32	36	21	9	8	11	21	20	12
Sweden	14	18	21	113	22	29	44	87	56	122
Switzerland	128	105	149	107	100	61	87	78	67	70 E
Turkey	0	0	0	3	4	3	3	7	10	10 E
Yugoslavia	69	63	70	142	173	158	367	362	210	200 E
Other	3	10	15	24	20	16	14	16	40	40 E
Other Western Europe	**258**	**237**	**304**	**441**	**370**	**297**	**618**	**619**	**500**	**796**
Total Western Europe	**12,334**	**11,141**	**12,732**	**14,894**	**15,177**	**13,604**	**14,653**	**16,485**	**17,962**	**16,758**
Canada	573	628	875	795	842	839	932	1,670	890	571
United States	5,820	6,172	6,822	8,617	9,025	10,617	9,404	9,160	12,071	11,580
Japan	187	174	116	147	166	461	366	416	586	395
Australia	498	554	588	445	379	536	922	1,139	1,496	986
Total Industrial Cts.	**19,412**	**18,669**	**21,133**	**24,897**	**25,589**	**26,058**	**26,277**	**28,870**	**33,005**	**30,290**
Hong Kong	364	297	330	300	319	275	345	428	474	480
India (E from 1978)	5	5	5	5	5	5	5	5	35	0
Indonesia	0	0	1	0	31	7	3	5	5	5 E
Republic of Korea	25	141	285	124	54	76	47	26	19	40
Malaysia	12	6	13	20	22	46	44	50	50	50 E
Philippines	1	2	1	1	0	1	1	2	2	2 E
Singapore	2	8	119	109	167	91	156	260	238	300
Taiwan (R.O.C.)	124	414	355	283	445	252	238	276	52	67
Thailand	1	8	1	4	4	4	4	6	5	5 E
Total Developing Cts.	**534**	**881**	**1,110**	**846**	**1,047**	**756**	**843**	**1,058**	**880**	**949**
Total Western World	**19,946**	**19,550**	**22,243**	**25,743**	**26,636**	**26,814**	**27,120**	**29,929**	**33,885**	**31,239**
Bulgaria	79	57	38	48	38	4	35	35	35	35 E
German Dem. Rep.	7	7	8	10	5	5	6	86	147	113
Hungary	32	53	50	79	27	6	107	151	91	190
Poland	0	0	0	0	0	0	0	0	0	0 E
U.S.S.R. (E:1987)	2,681	2,859	3,370	3,407	3,315	4,088	3,700	3,231	2,732	2,700 E
Total Eastern Europe	**2,799**	**2,976**	**3,466**	**3,544**	**3,385**	**4,103**	**3,848**	**3,503**	**3,005**	**3,038**
World Total	**22,745**	**22,526**	**25,709**	**29,287**	**30,021**	**30,917**	**30,968**	**33,432**	**36,890**	**34,277**

E - estimate

Table 25

SCRAP IMPORTS

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Belgium-Luxembourg	956	887	1,045	1,672	1,490	1,222	1,583	1,900	1,966	921	
Denmark	180	88	67	132	48	121	89	117	105	74	
France	347	276	307	407	461	353	519	815	881	1,009	
F.R. Germany	1,343	1,296	1,298	1,765	1,616	1,382	1,195	1,407	1,233	1,154	
Greece	288	434	520	328	313	455	653	388	397	526	
Ireland	4	2	70	88	136	122	149	180	220	217	
Italy	5,540	5,571	4,446	5,486	5,777	4,746	4,911	5,200	6,012	6,000	
Netherlands	238	221	364	478	586	849	1,037	769	1,107	1,160	
Portugal	85	125	108	120	105	103	119	179	149	82	
Spain	4,005	4,762	4,742	5,018	6,146	4,340	4,266	4,505	4,492	4,291	
United Kingdom	21	37	11	32	51	47	73	91	85	60	
E.C. Total	**13,007**	**13,699**	**12,978**	**15,526**	**16,729**	**13,740**	**14,593**	**15,551**	**16,647**	**15,495**	
Austria	170	381	219	363	239	115	69	102	88	55	
Finland	62	51	37	33	113	64	54	16	33	46	
Norway	24	4	15	13	11	6	32	164	61	23	
Sweden	247	529	450	839	885	698	789	799	623	246	
Switzerland	113	107	147	273	240	240	240	240	240	250	E
Turkey	525	748	1,074	1,038	1,148	1,799	2,830	3,037	3,200	3,800	E
Yugoslavia	479	508	738	781	729	651	689	746	700	550	E
Other Western Europe	**1,620**	**2,328**	**2,680**	**3,340**	**3,365**	**3,573**	**4,703**	**5,104**	**4,945**	**4,970**	
Total Western Europe	**14,627**	**16,027**	**15,658**	**18,866**	**20,094**	**17,313**	**19,296**	**20,655**	**21,593**	**20,464**	
Canada	838	501	669	1,137	578	395	415	1,186	1,460	1,002	
United States	510	430	581	524	555	656	765	941	1,016	1,292	
Japan	1,791	2,025	3,906	4,018	3,254	3,224	2,358	1,791	1,157	1,048	
Total Industrial Cts.	**17,766**	**18,983**	**20,814**	**24,544**	**24,481**	**21,589**	**22,834**	**24,573**	**25,225**	**23,806**	
Brazil	7	3	10	31	104	491	138	87	252	103	
Mexico	784	422	394	454	660	442	464	563	283	300	E
Hong Kong	94	64	27	28	20	33	44	86	76	82	
India	596	591	804	1,000	1,800	1,921	1,800	1,846	2,046	2,245	
Indonesia	63	219	261	243	191	476	382	585	703	800	E
Republic of Korea	1,661	2,424	3,185	3,217	3,532	4,108	3,961	3,920	4,089	3,885	
Malaysia	55	25	30	48	34	4	222	1	1	1	E
Philippines	9	25	0	2	1	85	109	94	152	150	E
Singapore	78	93	95	79	38	28	123	170	49	221	
Taiwan (R.O.C.)	883	673	768	609	715	1,241	766	1,236	1,553	1,285	
Thailand	417	390	641	494	658	660	750	1,158	1,200	1,300	E
Total Developing Cts.	**4,647**	**4,929**	**6,215**	**6,205**	**7,752**	**9,489**	**8,759**	**9,746**	**10,404**	**10,372**	
Total Western World	**22,413**	**23,912**	**27,030**	**30,749**	**32,233**	**31,077**	**31,592**	**34,319**	**35,630**	**34,178**	
German Dem. Rep.	693	455	672	1,035	886	986	903	900	900	900	E
Hungary	144	14	28	20	14	8	14	5	10	10	E
Poland	53	5	5	7	5	5	6	3	5	5	E
Romania	0	0	0	0	0	0	0	0	0	0	E
Total Eastern Europe	**890**	**474**	**705**	**1,062**	**905**	**999**	**923**	**908**	**915**	**915**	
China	0	0	0	249	362	465	498	485	470	500	E
World Total	**23,303**	**24,386**	**27,735**	**32,059**	**33,500**	**32,542**	**33,013**	**35,712**	**37,015**	**35,593**	

E - estimate

APPENDIX

The following tables have not been published before and the reader is advised that they are provisional in nature. Whilst every effort has been made by the Secretariat to ensure the accuracy and continuity of available data, many series remain incomplete or are not available.

Table 26

COKE PRODUCTION

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Denmark	...	...	...	...	...	...	70	65	68	...	..
Belgium	7,119	6,782	7,265	7,840	8,144	5,727	6,216	5,569	5,747	6,450	6,048
France	14,152	12,505	11,545	11,880	12,282	11,445	11,313	10,770	10,682	11,615	11,118
F.R. Germany	39,814	37,538	344,450	33,998	34,817	31,951	27,499	26,375	26,697	29,411	29,347
Greece		161	268	400	372	421	337	267	198	239	260
Italy	7,046	6,956	7,000	7,620	8,556	8,115	7,955	7,676	7,265	7,495	7,600
Netherlands	1,995	1,900	1,955	2,655	2,682	2,565	2,693	2,501	2,401	2,529	2,455
Portugal			161	269	196	222	251	252	260	223	216
Spain	4,029	4,136	4,449	4,475	4,243	4,777	15,859	4,277	3,886	3,843	4,151
United Kingdom	11,420	10,280	9,150	10,615	8,509	8,410	9,094	8,226	7,266	7,535	5,142
E.C. Total	**85,575**	**80,258**	**386,243**	**79,752**	**79,801**	**73,633**	**81,287**	**65,978**	**64,470**	**69,340**	**66,337**
Austria	1,768	1,638	1,666	1,719	1,733	1,607	1,615	1,458	1,484	1,689	1,729
Finland	119	112	89	66							
Norway	311	329	310	320	320	260	286	317	309	337	344
Sweden	530	499	536	533	481	820	1,072	918	933	1,152	1,188
Turkey	1,341	1,241	1,284	1,280	1,241	1,260	1,210	1,100	1,106	1,106	1,917
Yugoslavia	1,309	1,297	1,299	1,318	1,318	1,351	1,786	1,765	1,921	2,487	2,628
Other Western Europe	**5,378**	**5,116**	**5,184**	**5,236**	**5,093**	**5,298**	**5,969**	**5,558**	**5,753**	**6,771**	**7,806**
Total Western Europe	**90,953**	**85,374**	**391,427**	**84,988**	**84,894**	**78,931**	**87,256**	**71,536**	**70,223**	**76,111**	**74,143**
Canada	5,182	4,632	4,676	5,371	5,444	5,278	5,289	4,845	4,968	5,685	5,250
United States	60,336	52,067	54,891	57,603	55,000	51,251	52,919	44,783	43,761	47,990	41,850
Japan (E: 1989-90)	36,373	36,901	36,247	44,301	45,632	45,766	43,436	42,945	44,500	55,000	54,400
Australia	4,977	4,404	4,590	4,945	6,998	7,545	5,310	5,132	4,924	5,306	4,987
New Zealand	6	6	4					31	28	30	0
South Africa	3,710	3,852	3,878	3,894	4,124	4,298	4,848	5,378	5,070	4,800	4,800
Total Industrial Cts.	**201,537**	**187,236**	**495,713**	**201,102**	**202,092**	**193,069**	**199,058**	**174,650**	**173,474**	**194,922**	**185,430**
Argentina	491	475	432	506	650	766	738	610	620	539	520
Brazil	1,615	1,672	1,670	1,798	1,756	2,204	2,805	3,349	3,487	3,930	4,079
Chile	303	331	308	300	310	262	235	256	240	270	286
Colombia	422	445	327	363	363	381	420	400	439	345	363
Mexico	1,373	1,589	1,756	1,934	2,071	2,088	2,275	3,007	3,021	3,174	2,906
Peru	29	34	34	11	...	...	39	33	28	31	33
Uruguay								1	2	3	6
Total Latin America	**4,233**	**4,546**	**4,527**	**4,912**	**5,150**	**5,701**	**6,512**	**7,656**	**7,837**	**8,292**	**8,193**
Algeria (E)	...	...	...	...	...	...	...	...	...	1,000	1,000
Egypt	355	396	354	344	555	645	628	693	691	755	730
Zambia (E)					30	30	50	50	75	60	50
Zimbabwe	245	245	245	245	255	255	215	194	177	200	227
Total Africa	**600**	**641**	**599**	**589**	**840**	**930**	**893**	**937**	**943**	**2,015**	**2,007**

E - estimate

Table 26
(continued)

COKE PRODUCTION
thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
India (E: 1989-90)	8,679	8,623	8,775	8,193	8,199	8,846	9,620	12,000	11,661	11,422	11,342
Iran	54	57	60	63	400	400	400	400	400	400	400
Republic of Korea				323	599	549	960	1,165	1,319	2,331	2,965
Pakistan											
Taiwan (R.O.C.)	...	...	...	...	...	...	...	...	...	1,500	1,600
Total Asia	**8,733**	**8,680**	**8,835**	**8,579**	**9,198**	**9,795**	**10,980**	**13,565**	**13,380**	**15,653**	**16,307**
Total Developing Cts.	**13,566**	**13,867**	**13,961**	**14,080**	**15,188**	**16,426**	**18,385**	**22,158**	**22,160**	**25,960**	**26,507**
Total Western World	**215,103**	**201,103**	**509,674**	**215,182**	**217,280**	**209,495**	**217,443**	**196,808**	**195,634**	**220,882**	**211,937**
Albania (E)	15	15	15	15	15	15	15	15	15	15	15
Bulgaria	837	1,091	1,190	1,231	1,308	1,364	1,408	1,450	1,411	1,351	1,346
Czechoslovakia	10,266	10,462	10,678	10,831	10,898	10,910	10,893	10,861	10,875	10,458	10,323
German Dem. Rep.	2,572	2,316	1,605	...	...	...	1,694	1,590	1,355	1,296	1,322
Hungary	776	782	777	782	766	771	773	759	764	977	975
Poland	13,915	14,180	15,878	16,938	16,930	17,254	18,847	19,916	20,204	20,400	20,000
Romania	1,188	1,226	1,314	1,589	1,851	2,277	2,472	3,148	3,458	3,066	3,033
U.S.S.R. (E:1976 - 88)	75,404	78,329	79,773	81,401	82,641	83,543	85,200	86,800	86,400	86,000	85,000
Total Eastern Europe	**104,973**	**108,401**	**111,230**	**112,787**	**114,409**	**116,134**	**121,302**	**124,539**	**124,482**	**123,563**	**122,014**
P.R. China	23,304	30,234	34,372	34,484	31,041	36,800	35,693	39,286	46,898	45,822	43,428
D.P.R. Korea (E)	2,200	2,200	2,200	2,200	2,200	2,200	2,500	2,600	2,700	2,800	3,000
Total C.P.E.s	**130,477**	**140,835**	**147,802**	**149,471**	**147,650**	**155,134**	**159,495**	**166,425**	**174,080**	**172,185**	**168,442**
World Total	**345,580**	**341,938**	**657,476**	**364,653**	**364,930**	**364,629**	**376,938**	**363,233**	**369,714**	**393,067**	**380,379**

E - estimate

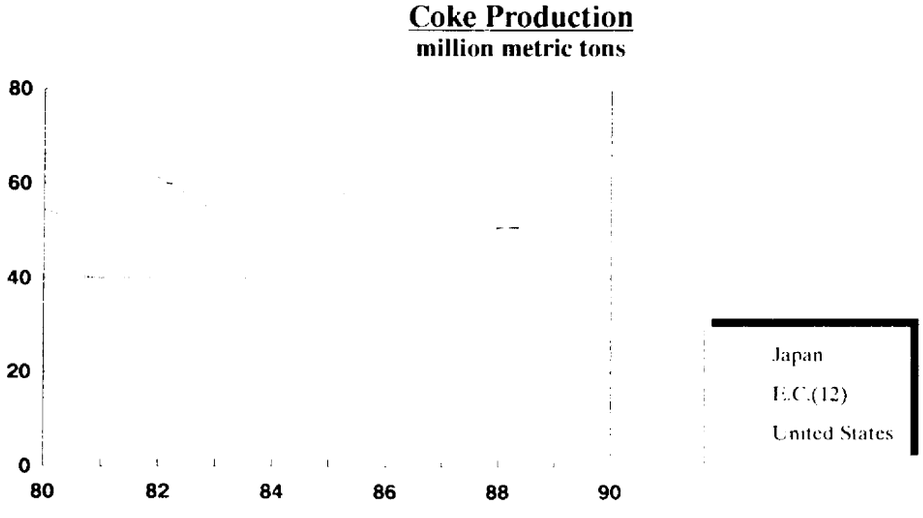


Table 26
(continued)

COKE PRODUCTION
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Denmark	...	67	23							
Belgium	6,004	5,217	5,106	5,926	5,964	5,131	5,226	5,548	5,343	5,304
France	10,723	9,934	8,457	8,999	8,691	8,254	7,464	7,428	7,323	7,198
F.R. Germany	28,300	26,655	22,984	21,467	23,232	23,094	20,218	18,825	18,772	18,800 E
Greece	58	12	15	5	0	0	0	0	0	0
Italy	8,071	7,466	6,492	6,943	7,411	7,209	6,945	6,331	6,170	5,870
Netherlands	2,242	2,428	2,126	2,726	2,973	2,665	2,736	2,920	2,898	2,736
Portugal	198	214	249	237	273	281	267	235	205	181
Spain	4,068	4,126	3,524	3,283	3,440	3,083	2,883	3,004	3,200	3,211
United Kingdom	5,593	5,067	4,836	4,801	6,408	6,256	6,616	6,561	6,447	6,454
E.C. Total	**65,257**	**61,186**	**53,812**	**54,387**	**58,392**	**55,973**	**52,355**	**50,852**	**50,358**	**49,754**
Austria	1,652	1,662	1,725	1,854	1,751	1,745	1,726	1,745	1,771	1,706
Finland								423	433	433
Norway	346	341	314	321	312	312	283	161		
Sweden	1,094	1,183	1,164	1,231	1,203	1,176	1,091	940	984	1,035
Turkey	1,900	2,370	2,160	2,500	2,602	3,003	2,960	3,300	3,300	3,300 E
Yugoslavia	2,693	2,779	3,440	3,516	3,545	3,496	2,959	3,208	3,273	2,276
Other Western Europe	**7,685**	**8,335**	**8,803**	**9,422**	**9,413**	**9,732**	**9,019**	**9,777**	**9,761**	**8,750**
Total Western Europe	**72,942**	**69,521**	**62,615**	**63,809**	**67,805**	**65,705**	**61,374**	**60,629**	**60,119**	**58,504**
Canada	4,659	3,999	4,120	4,901	4,684	4,553	4,635	4,663	4,414	3,708
United States	39,916	23,204	23,413	27,725	25,992	23,170	25,434	29,124	30,270	27,216
Japan (E: 1989-90)	50,690	49,781	46,674	51,275	51,742	48,140	46,429	50,635	51,600	53,000 E
Australia	5,421	4,745	3,678	3,563	3,603	3,776	3,600	4,146	4,545	4,421
New Zealand	4	2	7	8	5	5	1	1	1	1 E
South Africa	4,666	3,653	3,356	3,505	2,600	3,626	4,016	4,000	4,000	4,000 E
Total Industrial Cts.	**178,298**	**154,905**	**143,863**	**154,786**	**156,431**	**148,975**	**145,489**	**153,198**	**154,949**	**150,850**
Argentina	467	425	418	336	663	808	859	844	1,080	1,100 E
Brazil	3,741	3,930	4,642	6,204	6,649	7,344	7,454	7,980	7,893	7,546
Chile	310	240	252	290	301	304	316	306	277	328
Colombia	336	308	326	364	344	377	388	398	256	300 E
Mexico	2,943	2,548	3,077	2,905	2,904	2,380	2,340	1,785	2,080	2,110
Peru	33	34	31	35	37	35	35	30	30	30 E
Uruguay	6	1	3	1	1	1	1	1	1	1 E
Total Latin America	**7,836**	**7,486**	**8,749**	**10,135**	**10,899**	**11,249**	**11,393**	**11,344**	**11,617**	**11,415**
Algeria (E)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000 E
Egypt	970	996	937	952	1,004	900	900	900	900	900 E
Zambia (E)	50	55	35	35	30	30	32	34	40	40 E
Zimbabwe	209	257	220	180	220	125	120	125	200	200 E
Total Africa	**2,229**	**2,308**	**2,192**	**2,167**	**2,254**	**2,055**	**2,052**	**2,059**	**2,140**	**2,140**

E - estimate

Table 26
(continued)

COKE PRODUCTION
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
India (E: 1989-90)	11,773	11,721	11,610	10,969	11,637	9,619	8,536	10,883	11,700	11,800	E
Iran	300	300	300	350	400	350	400	400	500	832	
Republic of Korea	4,401	4,539	4,682	5,199	5,207	5,280	6,256	6,940	7,323	8,307	
Pakistan	200	346	370	370	451	610	630	650	850	900	E
Taiwan (R.O.C.)	1,700	1,800	1,900	2,000	2,000	2,100	2,100	3,152	3,271	3,182	
Total Asia	**18,374**	**18,706**	**18,862**	**18,888**	**19,695**	**17,959**	**17,922**	**22,025**	**23,644**	**25,021**	
Total Developing Cts.	**28,439**	**28,500**	**29,803**	**31,190**	**32,848**	**31,263**	**31,367**	**35,428**	**37,401**	**38,576**	
Total Western World	**206,737**	**183,405**	**173,666**	**185,976**	**189,279**	**180,238**	**176,856**	**188,626**	**192,350**	**189,426**	
Albania (E)	16	17	18	19	20	21	22	23	20	20	E
Bulgaria	1,348	1,274	1,270	1,186	1,087	1,156	1,314	1,261	1,350	1,400	E
Czechoslovakia	10,323	10,566	10,340	10,302	10,237	10,091	10,586	10,586	10,147	9,625	
German Dem. Rep.	1,238	1,226	1,193	1,179	1,257	1,307	1,256	1,251	1,224	1,250	E
Hungary	958	947	877	703	607	665	969	996	953	950	E
Poland	17,346	16,819	16,643	16,869	16,440	16,398	17,441	17,482	16,548	14,004	
Romania	2,933	3,513	4,268	4,849	4,743	4,850	4,700	4,700	4,500	4,500	E
U.S.S.R. (E:1976 - 88)	83,000	83,000	84,000	84,000	85,000	85,000	85,000	85,000	80,424	80,000	E
Total Eastern Europe	**117,162**	**117,362**	**118,609**	**119,107**	**119,391**	**119,488**	**121,288**	**121,299**	**115,166**	**111,749**	
P.R. China	38,948	40,190	42,135	45,567	47,947	52,668	57,906	61,076	66,240	73,270	
D.P.R. Korea (E)	3,000	3,300	3,400	3,400	3,500	3,500	3,500	3,500	3,500	3,500	E
Total C.P.E.s	**159,110**	**160,852**	**164,144**	**168,074**	**170,838**	**175,656**	**182,694**	**185,875**	**184,906**	**188,519**	
World Total	**365,847**	**344,257**	**337,810**	**354,050**	**360,117**	**355,894**	**359,550**	**374,501**	**377,256**	**377,945**	

E - estimate

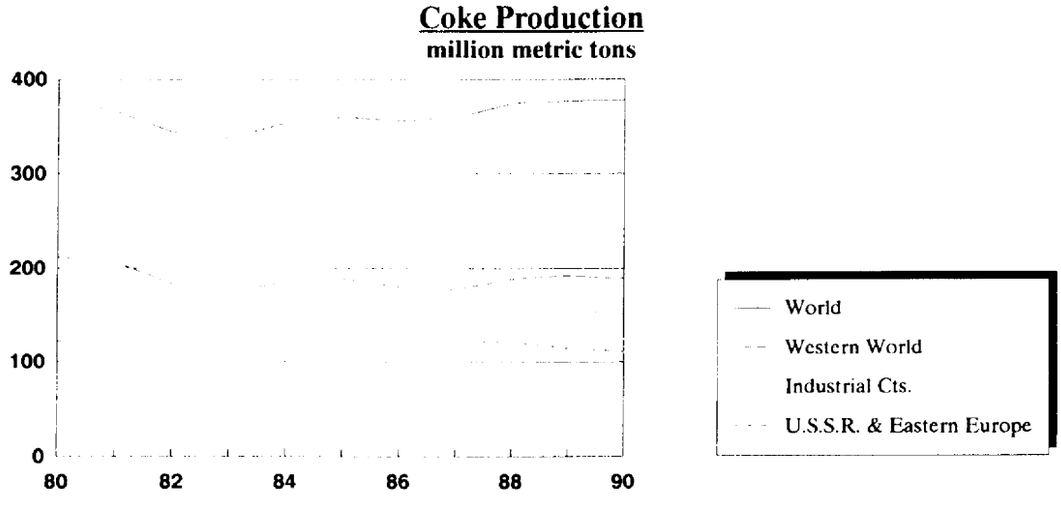


Table 27

CRUDE STEEL PRODUCTION IN B.O.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	6,630	7,428	10,572	12,057	12,932	9,974	11,258	10,752	12,047	12,861	11,674
Denmark											
France	6,892	8,477	11,028	13,143	15,793	13,658	15,871	16,244	17,864	18,625	18,979
F.R. Germany	25,136	24,908	28,229	33,596	36,613	28,024	30,485	29,003	30,762	35,034	34,357
Greece	343	307	396	507	500	542	421	311	260	298	278
Ireland											
Italy	5,438	6,375	7,745	8,728	10,424	9,991	10,664	10,452	10,465	10,190	12,000
Luxembourg	2,056	1,995	2,382	2,898	4,200	3,240	3,936	3,740	4,782	4,950	4,618
Netherlands	3,909	4,014	4,976	5,165	5,374	4,457	4,822	4,614	5,278	5,487	4,953
Portugal	301	333	351	349	110	327	343	367	364	391	373
Spain	2,838	3,480	5,049	5,470	6,020	6,083	5,911	5,900	5,916	5,969	5,785
United Kingdom	9,407	9,617	11,026	12,848	10,877	10,090	11,492	10,863	11,347	12,917	6,698
E.C. Total	**62,950**	**66,934**	**81,754**	**94,761**	**102,843**	**86,386**	**95,203**	**92,246**	**99,085**	**106,722**	**99,715**
Austria	2,922	2,854	2,942	3,016	3,441	3,290	3,664	3,380	3,592	4,128	3,910
Finland	724	668	1,020	1,173	1,202	1,172	1,207	1,776	1,988	2,123	2,189
Norway	391	387	425	449	449	408	404	329	402	490	461
Sweden	1,911	1,924	1,915	2,144	2,304	2,436	2,271	1,873	2,117	2,490	2,150
Switzerland											
Turkey			808	572	816	832	847	801	1,041	1,311	1,316
Yugoslavia	150	247	251	296	320	321	269	724	1,049	1,071	1,149
Other Western Europe	**6,098**	**6,080**	**7,361**	**7,650**	**8,532**	**8,459**	**8,662**	**8,883**	**10,189**	**11,613**	**11,175**
Total Western Europe	**69,048**	**73,014**	**89,115**	**102,411**	**111,375**	**94,845**	**103,865**	**101,129**	**109,274**	**118,335**	**110,890**
Canada			5,084	6,745	7,355	7,305	7,946	7,953	8,414	9,116	8,771
United States	57,452	58,008	67,662	75,532	73,983	65,137	72,500	70,223	75,736	75,529	61,339
Japan	73,847	70,839	76,985	96,057	94,687	84,428	86,891	82,429	79,749	85,370	84,150
Australia					5,409	5,503	5,551	5,443	5,750	6,044	5,747
New Zealand											
South Africa					2,444	3,724	4,268	4,834	4,910	5,746	5,855
Total Industrial Cts.	**200,347**	**201,861**	**238,846**	**280,745**	**295,253**	**260,942**	**281,021**	**272,011**	**283,833**	**300,140**	**276,752**
Argentina				207	550	432	470	284	514	757	700
Brazil	1,973	2,243	2,594	2,859	2,970	3,680	4,251	6,282	7,527	8,806	9,969
Central America											
Chile							148	402	572	642	695
Colombia											
Ecuador											
Mexico			353	420	634	687	703	1,504	2,476	2,608	2,688
Paraguay											
Peru	59	109	117	228	263	267	206	223	226	239	243
Trinidad & Tobago											
Uruguay											
Venezuela											
Total Latin America	**2,032**	**2,352**	**3,065**	**3,714**	**4,418**	**5,066**	**5,778**	**8,695**	**11,315**	**13,051**	**14,295**

E - estimate

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	52.6	59.7	72.7	77.7	79.6	85.5	92.0	94.8	94.9	95.0	94.0
Denmark											
France	29.0	37.1	45.8	52.0	58.4	63.4	68.3	73.5	78.2	79.7	81.9
F.R. Germany	55.8	61.8	64.6	67.8	68.8	69.3	71.9	74.4	74.6	76.1	78.4
Greece	98.6	73.3	65.5	67.3	72.8	75.2	68.6	54.3	38.8	28.8	23.2
Ireland											
Italy	31.5	36.5	39.1	41.6	43.8	45.8	45.5	44.8	43.1	42.0	45.3
Luxembourg	37.6	38.1	43.7	48.9	65.1	70.1	86.2	86.4	99.8	100.0	100.0
Netherlands	77.7	79.0	89.1	91.9	92.0	92.4	92.9	93.6	94.4	94.5	93.9
Portugal	78.2	80.8	81.4	76.0	28.4	78.0	74.1	68.3	59.3	60.2	56.3
Spain	38.2	44.6	52.8	50.6	51.7	54.1	53.3	52.8	52.1	48.7	45.8
United Kingdom	33.3	39.8	43.6	48.3	48.7	50.2	51.6	53.2	55.9	60.2	59.4
E.C. Total	**43.1**	**49.0**	**54.6**	**58.5**	**61.1**	**62.6**	**65.1**	**66.6**	**68.2**	**69.2**	**70.1**
Austria	71.6	72.1	72.3	71.2	73.2	80.9	81.9	82.6	82.9	84.0	84.6
Finland	61.9	65.2	70.1	72.6	72.6	72.4	73.4	80.9	85.2	86.2	87.3
Norway	44.9	44.8	46.4	46.6	47.6	44.4	45.0	44.9	49.4	53.3	53.2
Sweden	34.8	36.5	36.4	37.9	38.5	43.4	44.2	47.2	48.9	52.6	50.7
Switzerland											
Turkey			51.9	42.2	51.3	48.9	43.0	42.1	47.9	54.7	51.9
Yugoslavia	6.7	10.1	9.7	11.1	11.3	11.0	9.8	22.8	30.4	30.3	31.6
Other Western Europe	**38.9**	**39.6**	**44.9**	**44.8**	**46.6**	**49.0**	**49.7**	**53.1**	**55.9**	**58.5**	**57.8**
Total Western Europe	**42.7**	**48.0**	**53.7**	**57.2**	**59.7**	**61.1**	**63.4**	**65.2**	**66.8**	**68.0**	**68.6**
Canada			42.9	50.4	54.0	56.1	60.5	58.3	56.5	56.8	55.2
United States	48.2	53.1	56.0	55.2	56.0	61.6	62.4	61.8	60.9	61.1	60.5
Japan	79.1	80.0	79.4	80.5	80.8	82.5	80.9	80.5	78.1	76.4	75.5
Australia					69.5	70.0	71.4	74.2	75.7	74.4	75.7
New Zealand											
South Africa					41.9	54.5	60.1	66.3	62.1	64.7	64.6
Total Industrial Cts.	**50.4**	**54.2**	**58.6**	**60.8**	**63.7**	**66.7**	**67.6**	**68.0**	**67.5**	**67.8**	**67.9**
Argentina				9.6	23.4	19.6	19.5	10.6	18.5	23.7	26.1
Brazil	36.6	37.3	39.8	40.0	39.6	44.3	46.4	56.3	62.2	63.4	65.0
Central America											
Chile							30.8	73.4	95.8	97.6	98.7
Colombia											
Ecuador											
Mexico			8.0	8.8	12.3	13.0	13.3	26.8	36.5	36.6	37.6
Paraguay											
Peru	62.2	60.5	64.7	64.0	58.5	61.8	59.5	58.8	60.4	63.0	54.5
Trinidad & Tobago											
Uruguay											
Venezuela											
Total Latin America	**15.6**	**17.0**	**19.8**	**22.6**	**25.2**	**27.8**	**30.3**	**40.2**	**47.2**	**47.9**	**49.5**

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					26	26	106	185	111	350	288
Egypt					90	299	282	355	373	505	715
Nigeria											
Tunisia					131	127	103	156	160	176	178
Zimbabwe					491	524	733	734	778	740	805
Other Africa (E)											
Total Africa					**738**	**976**	**1,224**	**1,430**	**1,422**	**1,771**	**1,986**
Iran (E)								1,275	1,000	1,000	450
Israel											
Qatar											
Saudi Arabia											
Other (E)											
Total Middle East								**1,275**	**1,000**	**1,000**	**450**
Bangladesh											
Hong Kong (E)											
India					1,023	1,318	2,004	2,219	2,092	2,450	1,939
Indonesia											
Republic of Korea					1,067	1,234	2,140	2,531	2,838	5,302	5,919
Malaysia (E)	45	60	65	65	65	65	65	65	70	70	70
Pakistan (E)											
Philippines											
Singapore											
Taiwan (R.O.C.)								600	1,204	1,603	1,615
Thailand											
Other (E)											
Total Asia	**45**	**60**	**65**	**65**	**2,155**	**2,617**	**4,209**	**5,415**	**6,204**	**9,425**	**9,543**
Total Developing Cts.	**2,077**	**2,412**	**3,130**	**3,779**	**7,311**	**8,659**	**11,211**	**16,815**	**19,941**	**25,247**	**26,274**
Total Western World	**202,424**	**204,273**	**241,976**	**284,524**	**302,563**	**269,601**	**292,231**	**288,826**	**303,774**	**325,387**	**303,026**
Albania (E)	30	30	30	30	30	30	30	30	30	30	30
Bulgaria	967	1,054	1,200	1,337	1,265	1,267	1,413	1,481	1,345	1,370	1,472
Czechoslovakia (E:70-73)	1,900	2,100	2,400	2,650	2,899	3,419	3,623	3,810	3,941	3,472	3,949
German Dem. Rep.					252	570	624	642	659	653	669
Hungary											4
Poland	1,489	2,190	2,733	3,106	3,314	3,356	3,369	5,256	7,084	7,515	7,649
Romania	1,871	2,026	2,478	2,952	3,203	3,568	4,530	4,732	5,136	5,735	5,743
U.S.S.R.	19,935	23,246		28,167	30,868	34,798	37,700	39,400	42,477	42,300	42,200
Total Eastern Europe	**26,192**	**30,646**	**8,841**	**38,242**	**41,831**	**47,008**	**51,289**	**55,351**	**60,672**	**61,075**	**61,716**
Cuba											
China	4,567	6,365	7,640	8,912	7,340	8,864	7,298	9,341	13,640	15,802	18,098
D.P.R. Korea (E)									800	800	800
Total C.P.E.s	**30,759**	**37,011**	**16,481**	**47,154**	**49,171**	**55,872**	**58,587**	**64,692**	**75,112**	**77,677**	**80,614**
World Total	**233,183**	**241,284**	**258,457**	**331,678**	**351,734**	**325,473**	**350,818**	**353,518**	**378,886**	**403,064**	**383,640**

E - estimate

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					20.6	20.6	51.5	64.9	52.6	77.8	74.2
Egypt					18.4	42.8	40.3	43.3	45.3	54.6	73.9
Nigeria											
Tunisia					100.0	100.0	100.0	100.0	100.0	100.0	96.2
Zimbabwe					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other Africa (E)											
Total Africa					**56.2**	**63.0**	**67.4**	**69.1**	**69.5**	**74.7**	**81.5**
Iran (E)								69.9	76.9	69.9	81.8
Israel											
Qatar											
Saudi Arabia											
Other (E)											
Total Middle East								**65.5**	**63.5**	**49.9**	**36.6**
Bangladesh											
Hong Kong (E)											
India					14.5	16.5	21.4	22.2	20.7	24.2	20.4
Indonesia											
Republic of Korea					54.8	61.9	61.0	58.2	57.1	69.7	69.2
Malaysia (E)	36.9	37.5	35.0	36.1	35.7	35.5	34.2	33.5	34.5	33.8	33.3
Pakistan (E)											
Philippines											
Singapore											
Taiwan (R.O.C.)								35.1	35.1	52.6	48.0
Thailand											
Other (E)											
Total Asia	**0.6**	**0.8**	**0.7**	**0.7**	**19.8**	**21.9**	**27.3**	**30.8**	**31.0**	**41.7**	**40.4**
Total Developing Cts.	**9.4**	**10.5**	**12.1**	**13.6**	**24.0**	**26.7**	**30.3**	**38.9**	**41.9**	**46.6**	**46.8**
Total Western World	**48.3**	**51.7**	**55.8**	**58.1**	**61.3**	**63.6**	**64.6**	**65.2**	**64.9**	**65.5**	**65.4**
Albania (E)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Bulgaria	53.7	54.1	56.6	59.5	57.8	55.9	57.4	57.2	54.5	55.2	57.3
Czechoslovakia	16.6	17.4	18.9	20.1	21.3	23.9	24.7	25.3	25.8	23.4	25.9
German Dem. Rep.					4.1	8.8	9.3	9.4	9.4	9.3	9.2
Hungary											0.1
Poland	12.7	17.3	20.4	22.1	22.8	22.4	21.5	29.5	36.8	39.1	39.3
Romania	28.7	29.8	33.5	36.2	36.2	37.4	41.3	41.3	43.6	44.4	43.6
U.S.S.R.	17.2	19.3		21.4	22.7	24.6	26.0	26.9	28.0	28.4	28.5
Total Eastern Europe	**16.8**	**18.8**	**5.2**	**21.4**	**22.6**	**24.4**	**25.8**	**27.1**	**28.7**	**29.2**	**29.5**
Cuba											
China	25.7	29.9	32.7	35.3	34.8	37.1	35.7	39.3	42.9	45.8	48.8
D.P.R. Korea (E)									15.7	14.8	13.8
Total C.P.E.s	**17.5**	**19.8**	**8.4**	**22.8**	**23.5**	**25.4**	**26.3**	**27.9**	**30.2**	**31.1**	**31.9**
World Total	**39.2**	**41.4**	**41.0**	**47.6**	**50.0**	**50.6**	**52.0**	**52.4**	**52.9**	**54.0**	**53.6**

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	11,507	9,162	9,355	10,401	9,820	9,027	9,130	10,298	9,960	10,374
Denmark										
France	17,526	14,891	14,121	15,278	15,135	13,735	13,228	14,083	13,956	13,614
F.R. Germany	33,392	29,020	28,775	31,731	33,020	30,321	29,890	33,938	33,943	31,328
Greece	84									
Ireland										
Italy	12,045	11,383	10,141	11,350	11,367	11,045	10,558	10,535	11,173	11,200
Luxembourg	3,790	3,510	3,294	3,987	3,945	3,705	3,302	3,661	3,721	3,560
Netherlands	5,178	4,123	4,278	5,533	5,304	5,052	4,836	5,263	5,419	5,180
Portugal	325	215	329	416	436	449	449	471	386	337
Spain	5,943	5,920	5,356	5,391	5,459	4,874	4,930	4,751	5,617	5,593
United Kingdom	10,535	9,036	10,496	10,295	11,185	10,560	12,957	14,008	13,627	13,169
E.C. Total	**100,325**	**87,260**	**86,145**	**94,382**	**95,671**	**88,768**	**89,280**	**97,008**	**97,802**	**94,355**
Austria	4,030	3,695	3,995	4,393	4,205	3,891	3,984	4,204	4,333	3,921
Finland	2,148	2,190	2,045	2,223	2,073	2,148	2,224	2,327	2,445	2,405
Norway	435	372	499	511	534	494	364	385	234	
Sweden	1,681	1,791	2,053	2,279	2,425	2,458	2,326	2,479	2,610	2,712
Switzerland										
Turkey	1,292	1,567	2,036	2,375	2,617	2,930	3,285	3,591	2,810	3,762
Yugoslavia	1,424	1,348	1,598	1,644	1,801	1,770	1,715	1,913	1,934	1,715
Other Western Europe	**11,010**	**10,963**	**12,226**	**13,425**	**13,655**	**13,691**	**13,898**	**14,899**	**14,366**	**14,515**
Total Western Europe	**111,335**	**98,223**	**98,371**	**107,807**	**109,326**	**102,459**	**103,178**	**111,907**	**112,168**	**108,870**
Canada	8,679	7,249	8,496	10,735	10,554	9,939	10,332	10,065	10,734	7,773
United States	66,434	41,104	47,219	47,919	47,070	43,441	47,624	52,581	52,922	53,028
Japan	76,479	73,061	69,550	76,358	74,776	69,117	69,145	74,248	74,874	75,640
Australia	5,822	5,454	5,481	6,068	6,273	6,357	5,720	5,964	6,258	6,134
New Zealand							79	367	440	505
South Africa	6,259	6,004	4,707	5,357	6,000	5,523	5,585	5,498	5,995	5,473
Total Industrial Cts.	**275,008**	**231,095**	**233,824**	**254,244**	**253,999**	**236,836**	**241,663**	**260,630**	**263,390**	**257,423**
Argentina	699	668	594	567	981	1,425	1,534	1,448	1,955	1,986
Brazil	8,567	8,571	10,211	12,812	14,680	15,427	16,667	18,547	18,739	15,214
Central America										
Chile	625	479	593	663	655	671	685	860	747	728
Colombia		88	209	227	231	289	313	295	300	355
Ecuador										
Mexico	2,971	2,905	2,966	3,422	3,139	3,463	2,967	3,286	2,965	3,530
Paraguay							13	62	55	52
Peru	171	151	101		150	195	163	146	188	106
Trinidad & Tobago										
Uruguay										
Venezuela										
Total Latin America	**13,033**	**12,862**	**14,674**	**17,691**	**19,835**	**21,470**	**22,342**	**24,644**	**24,948**	**21,970**

E - estimate

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	93.0	91.7	92.1	92.0	91.9	92.9	93.3	91.8	91.0	90.9
Denmark										
France	82.4	80.9	80.3	80.4	80.5	76.9	74.8	73.6	72.2	71.6
F.R. Germany	80.2	80.9	80.5	80.6	81.5	81.7	82.5	82.7	82.6	81.5
Greece	9.0									
Ireland										
Italy	48.6	47.4	46.5	47.2	47.6	48.3	46.2	44.3	44.3	43.9
Luxembourg	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Netherlands	94.6	94.7	95.4	96.4	96.1	95.6	95.2	95.4	95.4	95.7
Portugal	58.6	42.8	48.8	60.3	65.6	63.2	61.3	58.0	50.7	45.2
Spain	46.1	44.9	41.2	39.9	38.5	41.0	42.2	40.0	44.0	43.2
United Kingdom	67.6	65.9	70.0	68.1	71.1	71.7	74.4	73.9	72.7	73.8
E.C. Total	**71.7**	**69.8**	**69.9**	**70.2**	**70.5**	**70.6**	**70.6**	**70.4**	**69.8**	**68.9**
Austria	86.6	86.8	90.6	90.2	90.2	90.7	92.6	92.2	91.9	91.4
Finland	88.5	90.7	84.6	84.2	82.3	83.1	83.3	83.2	83.7	84.1
Norway	51.3	48.4	57.0	55.8	56.6	59.1	42.8	42.3	34.5	
Sweden	44.6	45.9	48.8	48.4	50.4	52.2	50.6	51.9	55.6	60.9
Switzerland										
Turkey	53.3	49.2	53.1	54.8	53.8	49.4	46.6	45.0	36.0	40.4
Yugoslavia	35.8	35.1	38.7	38.8	40.2	39.2	39.3	42.7	43.0	47.5
Other Western Europe	**57.8**	**57.1**	**59.0**	**59.2**	**58.7**	**57.2**	**56.3**	**56.2**	**54.5**	**55.8**
Total Western Europe	**70.1**	**68.1**	**68.3**	**68.6**	**68.8**	**68.4**	**68.2**	**68.1**	**67.4**	**66.8**
Canada	58.6	61.1	66.2	73.0	72.1	70.6	70.1	67.7	69.4	63.3
United States	60.6	60.8	61.5	57.1	58.8	58.7	58.9	58.0	59.6	59.6
Japan	75.2	73.4	71.6	72.3	71.0	70.3	70.2	70.3	69.4	68.6
Australia	76.3	85.6	96.6	96.3	94.9	95.3	93.8	93.4	92.9	92.0
New Zealand							19.3	65.5	64.5	68.1
South Africa	69.5	72.5	65.6	69.3	70.5	62.1	62.1	62.2	64.2	63.5
Total Industrial Cts.	**68.4**	**68.3**	**68.0**	**67.7**	**67.9**	**67.3**	**67.0**	**66.6**	**66.6**	**65.9**
Argentina	27.7	22.9	20.2	21.4	33.3	44.0	42.2	39.9	50.2	54.6
Brazil	64.8	66.0	69.6	69.7	71.8	72.7	75.0	75.2	74.8	74.0
Central America										
Chile	97.1	97.4	96.0	95.8	95.0	95.0	94.4	94.6	93.4	94.3
Colombia		20.8	43.3	44.8	43.5	45.7	45.3	41.4	42.2	48.4
Ecuador										
Mexico	38.8	41.2	42.5	45.3	42.4	47.9	38.8	42.2	37.8	40.5
Paraguay							100.0	100.0	100.0	100.0
Peru	46.9	55.5	33.8		37.6	40.2	32.8	34.1	51.7	37.3
Trinidad & Tobago										
Uruguay										
Venezuela										
Total Latin America	**48.3**	**47.9**	**50.8**	**53.2**	**55.4**	**57.4**	**56.3**	**58.2**	**58.8**	**57.2**

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	457	768	790	650	1,314	1,350	1,437	1,301	950	950 E
Egypt	739	733	619	703	760	747	753	793	788	850 E
Nigeria										
Tunisia	173	107	130	129	128	139	144	117	151	144
Zimbabwe	691	538	647	423	731	674	597	598	569	586
Other Africa (E)										
Total Africa	**2,060**	**2,146**	**2,186**	**1,905**	**2,933**	**2,910**	**2,931**	**2,809**	**2,458**	**2,530**
Iran (E)	450	450	640	750	740	740	740	780	830	1,033 E
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East	**450**	**450**	**640**	**750**	**740**	**740**	**740**	**780**	**830**	**1,033**
Bangladesh										
Hong Kong (E)										
India	2,581	2,777	2,805	3,435	3,960	4,335	4,876	5,643	5,927	6,173
Indonesia										
Republic of Korea	8,195	8,800	8,449	9,194	9,284	9,528	11,351	13,079	15,421	15,937
Malaysia (E)	70	70	80	90	100	100	100	100	100	100 E
Pakistan (E)		10	80	250	700	850	950	1,150	1,150	1,150 E
Philippines										
Singapore										
Taiwan (R.O.C.)	1,536	2,644	3,411	3,341	3,347	3,641	3,704	5,613	6,001	5,627
Thailand										
Other (E)										
Total Asia	**12,382**	**14,301**	**14,825**	**16,310**	**17,391**	**18,454**	**20,981**	**25,585**	**28,599**	**28,987**
Total Developing Cts.	**27,925**	**29,759**	**32,324**	**36,656**	**40,899**	**43,574**	**46,994**	**53,818**	**56,835**	**54,520**
Total Western World	**302,933**	**260,854**	**266,148**	**290,900**	**294,898**	**280,410**	**288,657**	**314,448**	**320,225**	**311,943**
Albania (E)	30	35	40	45	50	60	60	60	65	60 E
Bulgaria	1,438	1,455	1,560	1,576	1,623	1,592	1,634	1,426	1,455	1,200
Czechoslovakia (E:70-73)	4,120	4,011	4,037	4,970	6,178	6,554	7,037	7,034	7,241	7,102
German Dem. Rep.	669	572	591	1,095	1,794	2,041	2,201	2,307	2,388	1,910
Hungary	510	1,226	1,194	1,295	1,322	1,434	1,615	1,657	1,541	1,424
Poland	6,013	6,278	6,891	7,036	6,821	7,540	7,476	7,442	7,222	7,211
Romania	5,792	6,118	5,684	7,062	6,694	6,851	7,200	6,960	7,453	5,267
U.S.S.R.	44,050	43,600	48,100	49,950	50,850	52,650	54,264	55,588	55,538	54,365
Total Eastern Europe	**62,622**	**63,295**	**68,097**	**73,029**	**75,332**	**78,722**	**81,487**	**82,474**	**82,903**	**78,479**
Cuba										
China	17,831	18,613	19,945	22,254	24,366	29,224	31,956	34,244	35,616	39,086
D.P.R. Korea (E)	800	1,100	1,400	1,700	1,700	1,800	1,930	1,980	2,050	2,100 E
Total C.P.E.s	**81,253**	**83,008**	**89,442**	**96,983**	**101,398**	**109,746**	**115,373**	**118,698**	**120,569**	**119,665**
World Total	**384,186**	**343,862**	**355,590**	**387,883**	**396,296**	**390,156**	**404,030**	**433,146**	**440,794**	**431,608**

E - estimate

Table 27
(continued)

CRUDE STEEL PRODUCTION IN B.O.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	82.0	88.5	88.6	86.1	92.9	93.1	93.7	92.2	91.2	90.5
Egypt	72.8	68.2	63.2	75.8	73.9	73.7	52.5	39.2	37.3	38.0
Nigeria										
Tunisia	96.1	95.5	76.2	74.6	76.8	73.3	73.7	77.7	77.8	78.3
Zimbabwe	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other Africa (E)										
Total Africa	**81.3**	**78.0**	**74.2**	**73.8**	**78.5**	**80.8**	**73.0**	**62.5**	**58.4**	**58.2**
Iran (E)	79.6	81.8	87.2	87.8	88.5	88.3	88.2	79.7	76.7	72.5
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East	**36.1**	**36.5**	**38.3**	**31.6**	**27.7**	**27.9**	**25.4**	**23.5**	**23.0**	**25.7**
Bangladesh										
Hong Kong (E)										
India	24.0	25.3	27.4	32.6	33.2	35.5	37.2	39.4	40.6	41.3
Indonesia										
Republic of Korea	76.2	74.8	70.9	70.5	68.6	65.5	67.6	68.4	70.5	68.9
Malaysia (E)	33.3	33.3	22.9	25.7	25.0	22.2	14.7	10.8	8.9	8.3
Pakistan (E)			66.7	83.3	93.3	94.4	95.0	95.8	95.8	95.8
Philippines										
Singapore										
Taiwan (R.O.C.)	48.7	63.7	67.9	67.7	64.5	65.7	64.2	67.7	66.3	57.7
Thailand										
Other (E)										
Total Asia	**46.3**	**49.1**	**50.1**	**51.6**	**50.3**	**50.0**	**51.0**	**53.7**	**54.6**	**52.3**
Total Developing Cts.	**48.5**	**49.6**	**51.2**	**52.5**	**53.2**	**54.1**	**53.6**	**55.0**	**55.4**	**53.3**
Total Western World	**65.9**	**65.5**	**65.4**	**65.3**	**65.4**	**64.8**	**64.3**	**64.3**	**64.3**	**63.3**
Albania (E)	60.0	58.3	57.1	56.3	55.6	60.0	60.0	60.0	58.0	60.0
Bulgaria	57.9	56.3	55.2	54.8	55.1	54.9	53.7	49.5	50.2	50.0
Czechoslovakia	27.0	26.8	26.9	33.5	41.1	43.4	45.6	45.7	46.8	47.7
German Dem. Rep.	9.0	8.0	8.2	14.5	22.8	25.6	26.7	28.4	30.5	34.3
Hungary	14.0	33.1	33.0	34.4	36.2	38.6	44.6	46.3	46.5	49.7
Poland	38.3	42.4	42.4	42.6	42.3	44.0	43.6	44.1	47.8	52.9
Romania	44.5	46.9	45.1	48.9	48.5	48.0	48.1	48.6	51.7	54.0
U.S.S.R.	29.7	29.6	31.5	32.4	32.9	32.8	33.5	34.1	34.7	35.2
Total Eastern Europe	**30.4**	**31.1**	**32.4**	**34.1**	**35.2**	**35.5**	**36.3**	**36.8**	**37.8**	**38.5**
Cuba										
China	50.1	50.1	49.8	51.2	52.1	56.0	56.8	57.6	57.8	58.9
D.P.R. Korea (E)	14.5	19.0	23.0	26.2	26.2	27.3	28.7	29.0	29.6	30.0
Total C.P.E.s	**32.8**	**33.6**	**34.9**	**36.6**	**37.9**	**39.1**	**40.1**	**40.8**	**41.9**	**43.2**
World Total	**54.3**	**53.3**	**53.6**	**54.6**	**55.1**	**54.7**	**54.9**	**55.5**	**56.1**	**56.1**

Table 28

CRUDE STEEL PRODUCTION IN E.A.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	451	471	519	541	705	709	621	557	645	674	748
Denmark	19	18	14	17	21	97	335	367	504	493	559
France	2,611	2,413	2,586	2,685	3,110	3,047	3,306	3,197	3,440	3,575	3,684
F.R. Germany	4,436	4,030	4,479	5,150	5,748	5,076	5,261	5,060	5,968	6,428	6,542
Greece	5	112	209	246	187	179	193	262	410	738	919
Ireland	78	80	77	116	110	81	58	47	68	72	2
Italy	6,994	7,073	8,076	8,633	9,860	9,381	10,819	11,291	12,299	12,915	14,037
Luxembourg	98	66	58	90	107	64	85	26	8		
Netherlands	327	350	374	368	383	326	352	313	312	319	319
Portugal	84	79	80	110	277	92	120	170	250	258	290
Spain	2,640	2,650	3,149	3,882	4,254	4,058	4,246	4,312	4,821	5,630	6,224
United Kingdom	5,514	4,361	4,910	5,293	5,258	5,562	6,756	6,269	7,200	7,385	4,579
E.C. Total	**23,257**	**21,703**	**24,531**	**27,131**	**30,020**	**28,672**	**32,152**	**31,871**	**35,925**	**38,487**	**37,903**
Austria	494	456	502	545	562	478	534	558	556	627	575
Finland	288	246	306	310	314	307	290	296	323	341	319
Norway	479	476	490	513	495	509	494	405	410	430	405
Sweden	2,281	2,141	2,222	2,368	2,525	2,295	2,193	1,682	1,868	1,961	1,881
Switzerland	524	532	543	584	593	420	545	656	784	886	929
Turkey			7	6	131	246	515	520	533	504	648
Yugoslavia	468	546	615	662	753	807	831	877	913	988	1,026
Other Western Europe	**4,534**	**4,397**	**4,685**	**4,988**	**5,373**	**5,062**	**5,402**	**4,994**	**5,387**	**5,737**	**5,783**
Total Western Europe	**27,791**	**26,100**	**29,216**	**32,119**	**35,393**	**33,734**	**37,554**	**36,865**	**41,312**	**44,224**	**43,686**
Canada	1,479	1,540	2,092	2,424	2,845	2,640	2,184	2,799	3,456	3,643	3,879
United States	18,291	18,997	21,519	25,183	26,008	20,575	22,328	25,294	29,245	30,778	28,273
Japan	15,620	15,628	18,016	21,416	20,891	16,782	20,021	19,598	22,356	26,377	27,245
Australia					241	177	158	152	171	207	95
New Zealand	157	144	157	190	194	185	222	218	225	229	230
South Africa					1,598	1,603	1,750	1,674	2,032	2,146	2,325
Total Industrial Cts.	**63,338**	**62,409**	**71,000**	**81,332**	**87,170**	**75,696**	**84,217**	**86,600**	**98,797**	**107,604**	**105,733**
Argentina	440	485	738	793	776	755	812	1,030	1,236	1,568	1,442
Brazil	1,087	1,252	1,373	1,717	2,019	1,990	2,413	2,685	2,958	3,433	3,976
Central America	8	9	16	35	33	38	42	62	64	122	139
Chile	45	44	50	41	39	31	32	42	17	16	9
Colombia	109	121	140	141	129	162	136	152	158	155	192
Ecuador										8	17
Mexico	1,597	1,578	1,796	2,004	2,172	2,400	2,441	2,470	2,793	3,042	3,118
Paraguay											
Peru	34	69	64	128	187	165	140	156	148	140	203
Trinidad & Tobago											
Uruguay	2	1	1	1	1	1	2	1	1	1	10
Venezuela	137	153	160	156	162	179	186	178	205	767	1,340
Total Latin America	**3,458**	**3,711**	**4,338**	**5,015**	**5,518**	**5,723**	**6,203**	**6,776**	**7,581**	**9,252**	**10,446**

E - estimate

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	3.6	3.8	3.6	3.5	4.3	6.1	5.1	4.9	5.1	5.0	6.0
Denmark	4.0	3.8	2.8	3.8	3.9	17.4	46.4	53.5	58.4	61.3	76.2
France	11.0	10.6	10.8	10.6	11.5	14.2	14.2	14.5	15.1	15.3	15.9
F.R. Germany	9.8	10.0	10.2	10.4	10.8	12.6	12.4	13.0	14.5	14.0	14.9
Greece	1.4	26.7	34.5	32.7	27.2	24.8	31.4	45.7	61.2	71.2	76.8
Ireland					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Italy	40.5	40.5	40.8	41.1	41.4	43.0	46.1	48.4	50.6	53.3	53.0
Luxembourg	1.8	1.3	1.1	1.5	1.7	1.4	1.9	0.6	0.2		
Netherlands	6.5	6.9	6.7	6.5	6.6	6.8	6.8	6.4	5.6	5.5	6.1
Portugal	21.8	19.2	18.6	24.0	71.6	22.0	25.9	31.7	40.7	39.8	43.7
Spain	35.5	34.0	33.0	35.9	36.5	36.1	38.3	38.6	42.5	45.9	49.2
United Kingdom	19.5	18.1	19.4	19.9	23.6	27.7	30.3	30.7	35.4	34.4	40.6
E.C. Total	**15.9**	**15.9**	**16.4**	**16.7**	**17.8**	**20.8**	**22.0**	**23.0**	**24.7**	**25.0**	**26.6**
Austria	12.1	11.5	12.3	12.9	12.0	11.7	11.9	13.6	12.8	12.8	12.4
Finland	24.6	24.0	21.0	19.2	19.0	19.0	17.6	13.5	13.8	13.8	12.7
Norway	55.1	55.2	53.5	53.3	52.4	55.4	55.0	55.3	50.4	46.7	46.8
Sweden	41.5	40.6	42.3	41.8	42.2	40.9	42.7	42.4	43.2	41.4	44.4
Switzerland	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Turkey					8.2	14.4	26.1	27.3	24.5	21.0	25.6
Yugoslavia	21.0	22.3	23.8	24.7	26.6	27.7	30.2	27.6	26.4	27.9	28.2
Other Western Europe	**28.9**	**28.7**	**28.6**	**29.2**	**29.4**	**29.3**	**31.0**	**29.9**	**29.6**	**28.9**	**29.9**
Total Western Europe	**17.2**	**17.2**	**17.6**	**17.9**	**19.0**	**21.7**	**22.9**	**23.8**	**25.3**	**25.4**	**27.0**
Canada	13.2	13.9	17.6	18.1	20.9	20.3	16.6	20.5	23.2	22.7	24.4
United States	15.3	17.4	17.8	18.4	19.7	19.4	19.2	22.2	23.5	24.9	27.9
Japan	16.7	17.6	18.6	17.9	17.8	16.4	18.6	19.1	21.9	23.6	24.5
Australia					3.1	2.3	2.0	2.1	2.3	2.5	1.3
New Zealand	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
South Africa					27.4	23.5	24.6	22.9	25.7	24.2	25.6
Total Industrial Cts.	**15.9**	**16.8**	**17.4**	**17.6**	**18.8**	**19.3**	**20.3**	**21.7**	**23.5**	**24.3**	**26.0**
Argentina	24.1	25.4	34.3	36.8	33.0	34.2	33.7	38.4	44.4	49.0	53.7
Brazil	20.2	20.8	21.1	24.0	26.9	24.0	26.3	24.1	24.4	24.7	25.9
Central America	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Chile	7.6	6.7	7.9	7.5	6.2	6.4	6.7	7.7	2.8	2.4	1.3
Colombia	35.1	37.1	37.4	38.9	38.8	41.6	38.3	46.0	40.5	43.6	45.6
Ecuador										100.0	100.0
Mexico	41.1	41.3	40.5	42.1	42.3	45.5	46.1	44.1	41.2	42.7	43.6
Paraguay											
Peru	35.5	38.4	35.3	36.0	41.5	38.2	40.5	41.2	39.6	37.0	45.5
Trinidad & Tobago											
Uruguay	9.2	8.2	9.1	8.0	7.0	8.3	10.0	6.4	17.5	7.4	55.6
Venezuela	14.8	16.5	14.2	14.7	15.3	16.2	19.8	20.8	23.9	52.0	67.8
Total Latin America	**26.5**	**26.8**	**28.1**	**30.5**	**31.5**	**31.3**	**32.6**	**31.3**	**31.6**	**34.0**	**36.1**

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					70	70	70	70	70	70	70
Egypt					200	200	218	218	214	232	155
Nigeria					15	14	15	15	15	15	20
Tunisia											
Zimbabwe											
Other Africa (E)					60	60	60	60	60	65	70
Total Africa	**0**	**0**	**0**	**0**	**345**	**344**	**363**	**363**	**359**	**382**	**315**
Iran (E)				240	567	551	549	550	300	400	100
Israel					75	60	70	72	94	107	115
Qatar									127	396	463
Saudi Arabia											
Other (E)	29	42	72	80	85	70	65	51	55	70	100
Total Middle East	**29**	**42**	**72**	**320**	**727**	**681**	**684**	**673**	**576**	**973**	**778**
Bangladesh											
Hong Kong (E)	100	105	110	115	120	120	120	120	120	120	120
India					1,044	984	1,244	1,392	1,960	1,823	1,907
Indonesia	10	10	30	50	80	100	139	130	131	182	543
Republic of Korea					82	83	1,321	1,717	2,023	2,204	2,539
Malaysia (E)	80	100	120	120	120	120	125	130	135	140	140
Pakistan (E)	10	10	15	15	20	20	25	25	30	30	35
Philippines	112	136	173	216	233	309	350	357	276	397	330
Singapore	114	130	198	211	194	196	203	215	281	293	340
Taiwan (R.O.C.)					597	680	1,098	1,110	2,222	1,446	1,750
Thailand	153	170	283	324	326	251	281	309	346	440	450
Other (E)					25	25	25	30	30	40	40
Total Asia	**579**	**661**	**929**	**1,051**	**2,841**	**2,888**	**4,931**	**5,535**	**7,554**	**7,115**	**8,194**
Total Developing Cts.	**4,066**	**4,414**	**5,339**	**6,386**	**9,431**	**9,636**	**12,181**	**13,347**	**16,070**	**17,722**	**19,733**
Total Western World	**67,404**	**66,824**	**76,340**	**87,719**	**96,601**	**85,331**	**96,398**	**99,947**	**114,867**	**125,326**	**125,465**
Albania (E)	20	20	20	20	20	20	20	20	20	20	20
Bulgaria	362	395	408	416	412	482	556	621	629	631	630
Czechoslovakia	1,345	1,434	1,492	1,495	1,534	1,561	1,765	1,820	1,809	1,880	1,946
German Dem. Rep.					1,285	1,352	1,423	1,445	1,617	1,702	1,969
Hungary	290	291	296	311	328	336	338	846	343	340	342
Poland	881	1,002	1,174	1,287	1,386	1,659	2,257	2,540	2,631	2,645	2,734
Romania	607	636	662	696	956	1,213	1,510	1,574	1,857	2,255	2,600
U.S.S.R.	10,710	11,455		13,086	13,542	13,971	14,300	15,100	15,400	15,400	15,900
Total Eastern Europe	**14,215**	**15,233**	**4,052**	**17,311**	**19,463**	**20,594**	**22,169**	**23,966**	**24,306**	**24,873**	**26,141**
Cuba											
China	3,944	4,787	5,222	5,816	5,412	6,101	5,209	5,556	6,813	7,306	7,107
D.P.R. Korea (E)					1,400	1,100	1,200	2,200	2,480	2,800	3,200
Total C.P.E.s	**18,159**	**20,020**	**9,274**	**23,127**	**26,275**	**27,795**	**28,578**	**31,722**	**33,599**	**34,979**	**36,448**
World Total	**85,563**	**86,844**	**85,614**	**110,846**	**122,876**	**113,126**	**124,976**	**131,669**	**148,466**	**160,305**	**161,913**

E - estimate

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					55.6	55.6	34.0	24.6	33.2	15.6	18.0
Egypt					40.8	28.6	31.2	26.6	26.0	25.1	16.0
Nigeria					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Tunisia											
Zimbabwe											
Other Africa (E)					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Africa	**0.0**	**0.0**	**0.0**	**0.0**	**26.3**	**22.2**	**20.0**	**17.5**	**17.5**	**16.1**	**12.9**
Iran (E)					100.0	100.0	100.0	30.1	23.1	28.0	18.2
Israel					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Qatar									100.0	100.0	100.0
Saudi Arabia											
Other (E)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Middle East	**24.4**	**31.8**	**44.4**	**78.0**	**100.0**	**100.0**	**100.0**	**34.5**	**36.5**	**48.6**	**63.4**
Bangladesh											
Hong Kong (E)					100.0	100.0	100.0	100.0	100.0	100.0	100.0
India					14.8	12.3	13.3	13.9	19.4	18.0	20.0
Indonesia	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Republic of Korea					4.2	4.2	37.6	39.5	40.7	29.0	29.7
Malaysia (E)	65.6	62.5	64.2	66.7	65.9	65.6	65.8	67.0	66.5	67.6	66.7
Pakistan (E)											
Philippines	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Singapore	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Taiwan (R.O.C.)					100.0	100.0	100.0	64.9	64.9	47.4	52.0
Thailand	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other (E)					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Asia	**7.3**	**8.4**	**10.2**	**11.0**	**26.1**	**24.2**	**32.0**	**31.5**	**37.7**	**31.5**	**34.7**
Total Developing Cts.	**18.5**	**19.3**	**20.6**	**23.0**	**31.0**	**29.7**	**33.0**	**30.9**	**33.8**	**32.7**	**35.1**
Total Western World	**16.1**	**16.9**	**17.6**	**17.9**	**19.6**	**20.1**	**21.3**	**22.6**	**24.5**	**25.2**	**27.1**
Albania (E)	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Bulgaria	20.1	20.3	19.2	18.5	18.8	21.3	22.6	24.0	25.5	25.4	24.5
Czechoslovakia	11.7	11.9	11.7	11.4	11.2	10.9	12.0	12.1	11.8	12.7	12.8
German Dem. Rep.					20.8	20.9	21.1	21.1	23.2	24.2	26.9
Hungary	9.3	9.4	9.0	9.3	9.5	9.1	9.3	22.7	8.8	8.7	9.1
Poland	7.5	7.9	8.7	9.2	9.5	11.1	14.4	14.2	13.7	13.8	14.0
Romania	9.3	9.3	8.9	8.5	10.8	12.7	13.8	13.7	15.8	17.5	19.7
U.S.S.R.	9.2	9.5		10.0	9.9	9.9	9.9	10.3	10.2	10.3	10.7
Total Eastern Europe	**9.1**	**9.3**	**2.4**	**9.7**	**10.5**	**10.7**	**11.1**	**11.7**	**11.5**	**11.9**	**12.5**
Cuba											
China	22.2	22.5	22.3	23.1	25.6	25.5	25.5	23.4	21.4	21.2	19.1
D.P.R. Korea (E)					43.8	37.9	40.0	55.0	48.8	51.9	55.2
Total C.P.E.s	**10.3**	**10.7**	**4.7**	**11.2**	**12.5**	**12.6**	**12.8**	**13.7**	**13.5**	**14.0**	**14.4**
World Total	**14.4**	**14.9**	**13.6**	**15.9**	**17.5**	**17.6**	**18.5**	**19.5**	**20.7**	**21.5**	**22.6**

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	870	830	799	899	863	686	653	919	988	1,041
Denmark	612	560	493	548	528	632	606	650	624	610
France	3,659	3,477	3,461	3,722	3,673	4,122	4,465	5,039	5,379	5,401
F.R. Germany	6,577	6,329	6,954	7,658	7,477	6,813	6,358	7,085	7,130	7,106
Greece	846	933	866	936	985	1,009	907	959	956	1,050
Ireland	33	61	141	166	203	208	220	271	324	326
Italy	12,715	12,619	11,663	12,703	12,524	11,830	12,296	13,220	14,035	14,310
Luxembourg										
Netherlands	295	232	207	206	213	231	246	255	262	232
Portugal	230	287	345	274	229	261	283	341	376	409
Spain	6,352	6,839	7,399	8,106	8,734	7,008	6,761	7,135	7,148	7,342
United Kingdom	5,038	4,669	4,491	4,826	4,537	4,165	4,457	4,942	5,113	4,672
E.C. Total	**37,227**	**36,836**	**36,819**	**40,044**	**39,966**	**36,965**	**37,252**	**40,816**	**42,335**	**42,498**
Austria	501	466	416	477	455	401	317	356	384	370
Finland	280	224	371	416	445	438	445	471	476	456
Norway	413	396	377	405	410	343	487	525	444	385
Sweden	1,994	2,109	2,157	2,426	2,388	2,252	2,269	2,300	2,082	1,743
Switzerland	934	835	835	978	987	1,075	866	988	1,064	1,105
Turkey	600	1,076	1,249	1,496	1,728	2,390	3,164	3,809	4,667	4,955
Yugoslavia	1,049	1,029	1,103	1,152	1,155	1,241	1,351	1,416	1,465	1,100
Other Western Europe	**5,771**	**6,135**	**6,508**	**7,350**	**7,568**	**8,140**	**8,899**	**9,865**	**10,582**	**10,113**
Total Western Europe	**42,998**	**42,971**	**43,327**	**47,394**	**47,534**	**45,105**	**46,151**	**50,681**	**52,917**	**52,612**
Canada	4,133	2,976	3,416	3,965	4,084	4,142	4,405	4,801	4,724	4,508
United States	30,976	21,009	24,145	28,458	27,167	27,570	30,834	33,426	31,885	32,701
Japan	25,197	26,487	27,629	29,228	30,505	29,158	29,368	31,433	33,034	34,691
Australia	168	111	195	234	336	317	380	423	477	532
New Zealand	221	252	234	280	227	287	330	193	242	237
South Africa	2,193	1,846	2,313	2,219	2,350	3,372	3,406	3,211	3,222	3,034
Total Industrial Cts.	**105,886**	**95,652**	**101,259**	**111,778**	**112,203**	**109,951**	**114,874**	**124,169**	**126,500**	**128,315**
Argentina	1,426	1,553	1,625	1,440	1,522	1,469	1,719	1,758	1,732	1,625
Brazil	3,680	3,450	3,599	4,767	4,878	5,128	5,006	5,512	5,660	4,896
Central America	113	248	270	102	101	133	129	116	97	84
Chile	19	13	25	29	34	35	41	49	53	44
Colombia	215	235	242	252	289	325	367	407	407	377
Ecuador	28	28	23	18	18	17	25	23	23	20
Mexico	3,373	3,071	3,201	3,206	3,241	2,908	3,366	3,564	4,065	4,462
Paraguay										
Peru	193	121	198	337	248	291	333	283	176	178
Trinidad & Tobago		183	210	187	172	326	361	361	347	371
Uruguay	15	28	46	41	39	31	30	30	37	35
Venezuela	1,462	1,812	1,976	2,225	2,582	2,798	3,137	3,075	2,704	2,879
Total Latin America	**10,525**	**10,743**	**11,413**	**12,604**	**13,124**	**13,461**	**14,515**	**15,180**	**15,301**	**14,971**

E - estimate

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	7.0	8.3	7.9	8.0	8.1	7.1	6.7	8.2	9.0	9.1
Denmark	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
France	17.2	18.9	19.7	19.6	19.5	23.1	25.2	26.4	27.8	28.4
F.R. Germany	15.8	17.6	19.5	19.4	18.5	18.3	17.5	17.3	17.4	18.5
Greece	91.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Ireland	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Italy	51.3	52.6	53.5	52.8	52.4	51.7	53.8	55.6	55.7	56.1
Luxembourg										
Netherlands	5.4	5.3	4.6	3.6	3.9	4.4	4.8	4.6	4.6	4.3
Portugal	41.4	57.2	51.2	39.7	34.4	36.8	38.7	42.0	49.3	54.8
Spain	49.3	51.9	56.9	60.1	61.5	59.0	57.8	60.0	56.0	56.8
United Kingdom	32.4	34.1	30.0	31.9	28.9	28.3	25.6	26.1	27.3	26.2
E.C. Total	**26.6**	**29.4**	**29.9**	**29.8**	**29.5**	**29.4**	**29.4**	**29.6**	**30.2**	**31.1**
Austria	10.8	10.9	9.4	9.8	9.8	9.3	7.4	7.8	8.1	8.6
Finland	11.5	9.3	15.4	15.8	17.7	16.9	16.7	16.8	16.3	15.9
Norway	48.7	51.6	43.0	44.2	43.4	41.0	57.2	57.7	65.5	100.0
Sweden	52.9	54.1	51.2	51.6	49.6	47.8	49.4	48.1	44.4	39.1
Switzerland	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Turkey	24.7	33.8	32.6	34.5	35.5	40.3	44.9	47.7	59.8	53.2
Yugoslavia	26.4	26.8	26.7	27.2	25.8	27.5	30.9	31.6	32.6	30.5
Other Western Europe	**30.3**	**32.0**	**31.4**	**32.4**	**32.5**	**34.0**	**36.0**	**37.2**	**40.1**	**38.9**
Total Western Europe	**27.1**	**29.8**	**30.1**	**30.2**	**29.9**	**30.1**	**30.5**	**30.8**	**31.8**	**32.3**
Canada	27.9	25.1	26.6	27.0	27.9	29.4	29.9	32.3	30.6	36.7
United States	28.3	31.1	31.5	33.9	33.9	37.2	38.1	36.9	35.9	36.8
Japan	24.8	26.6	28.4	27.7	29.0	29.7	29.8	29.7	30.6	31.4
Australia	2.2	1.7	3.4	3.7	5.1	4.7	6.2	6.6	7.1	8.0
New Zealand	100.0	100.0	100.0	100.0	100.0	100.0	80.7	34.5	35.5	31.9
South Africa	24.4	22.3	32.2	28.7	27.6	37.9	37.9	36.3	34.5	35.2
Total Industrial Cts.	**26.3**	**28.3**	**29.5**	**29.8**	**30.0**	**31.2**	**31.8**	**31.7**	**32.0**	**32.9**
Argentina	56.5	53.3	55.2	54.4	51.7	45.4	47.3	48.4	44.5	44.6
Brazil	27.8	26.5	24.5	25.9	23.8	24.2	22.5	22.4	22.6	23.8
Central America	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Chile	2.9	2.6	4.0	4.2	5.0	5.0	5.6	5.4	6.6	5.7
Colombia	53.4	55.8	50.2	49.6	54.4	51.5	53.2	57.2	57.2	51.4
Ecuador	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Mexico	44.0	43.5	45.9	42.4	43.8	40.2	44.1	45.8	51.8	51.3
Paraguay										
Peru	53.1	44.5	66.2	100.0	62.4	59.8	67.2	65.9	48.3	62.7
Trinidad & Tobago		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Uruguay	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Venezuela	72.0	81.4	83.5	80.1	84.5	82.3	84.8	84.3	84.6	90.6
Total Latin America	**39.0**	**40.0**	**39.5**	**37.9**	**36.7**	**36.0**	**36.6**	**35.8**	**36.1**	**38.9**

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	70	70	70	70	70	70	62	72	60	70 E
Egypt	226	238	233	209	131	128	544	1,092	1,198	1,260 E
Nigeria	22	90	182	229	321	200	184	234	213	220
Tunisia			33	37	32	43	44	33	43	40
Zimbabwe										
Other Africa (E)	70	70	75	75	75	75	75	75	75	75 E
Total Africa	**388**	**468**	**593**	**620**	**629**	**516**	**909**	**1,506**	**1,589**	**1,665**
Iran (E)	100	100	100	100	100	100	100	200	250	391 E
Israel	114	87	83	92	100	110	116	99	100	135
Qatar	469	495	480	488	533	507	491	527	563	572
Saudi Arabia			275	842	1,106	1,100	1,365	1,614	1,768	1,790
Other (E)	100	100	100	100	100	100	100	100	100	100 E
Total Middle East	**783**	**782**	**1,038**	**1,622**	**1,939**	**1,917**	**2,172**	**2,540**	**2,781**	**2,988**
Bangladesh										
Hong Kong (E)	120	120	120	120	120	120	120	120	150	150 E
India	2,140	2,375	2,199	2,255	3,044	3,201	3,639	3,791	4,052	4,114
Indonesia	621	693	983	1,171	1,374	1,729	2,059	2,054	2,383	2,892
Republic of Korea	2,505	2,958	3,467	3,840	4,255	5,027	5,431	6,039	6,452	7,188
Malaysia (E)	140	140	270	260	300	350	580	830	1,025	1,100 E
Pakistan (E)	35	40	40	50	50	50	50	50	50	50 E
Philippines	350	350	200	250	300	400	450	500	550	600 E
Singapore	263	359	305	362	365	390	441	432	495	489
Taiwan (R.O.C.)	1,621	1,508	1,611	1,593	1,839	1,904	2,067	2,675	3,046	4,120
Thailand	300	312	244	381	447	463	534	552	750	900 E
Other (E)	40	50	50	50	60	60	60	70	70	70
Total Asia	**8,135**	**8,905**	**9,489**	**10,332**	**12,154**	**13,694**	**15,431**	**17,113**	**19,023**	**21,673**
Total Developing Cts.	**19,831**	**20,898**	**22,534**	**25,178**	**27,846**	**29,589**	**33,026**	**36,338**	**38,694**	**41,297**
Total Western World	**125,716**	**116,549**	**123,793**	**136,956**	**140,049**	**139,539**	**147,900**	**160,507**	**165,194**	**169,612**
Albania (E)	20	25	30	35	40	40	40	40	47	40 E
Bulgaria	622	736	888	977	1,008	991	1,094	1,137	1,155	960
Czechoslovakia	1,964	2,019	2,078	2,104	2,050	2,046	2,039	2,110	2,021	1,958
German Dem. Rep.	2,144	2,192	2,257	2,367	2,420	2,415	2,540	2,501	2,385	1,750
Hungary	320	321	401	444	452	467	466	415	362	261
Poland	2,197	2,211	2,350	2,428	2,401	2,507	2,590	2,802	2,480	2,455
Romania	2,559	2,501	2,685	2,985	2,954	3,219	3,600	3,394	3,460	2,370
U.S.S.R.	16,117	16,500	17,100	17,530	18,150	22,637	21,782	21,811	20,925	20,130
Total Eastern Europe	**25,943**	**26,505**	**27,789**	**28,870**	**29,475**	**34,322**	**34,151**	**34,210**	**32,835**	**29,924**
Cuba										
China	6,565	6,867	8,123	9,033	10,084	10,568	11,476	12,066	12,754	14,015
D.P.R. Korea (E)	2,900	2,900	2,900	3,000	3,000	3,000	3,000	3,050	3,080	3,100 E
Total C.P.E.s	**35,408**	**36,272**	**38,812**	**40,903**	**42,559**	**47,890**	**48,627**	**49,326**	**48,669**	**47,039**
World Total	**161,124**	**152,821**	**162,605**	**177,859**	**182,608**	**187,429**	**196,527**	**209,833**	**213,863**	**216,651**

E - estimate

Table 28
(continued)

CRUDE STEEL PRODUCTION IN E.A.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	12.6	8.1	7.8	9.3	5.0	4.8	4.0	5.1	5.8	6.7
Egypt	22.3	22.2	23.8	22.5	12.7	12.6	38.0	53.9	56.7	56.4
Nigeria	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Tunisia			19.6	21.5	19.2	22.7	22.3	21.7	22.2	21.7
Zimbabwe										
Other Africa (E)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Africa	**15.3**	**17.0**	**20.1**	**24.0**	**16.8**	**14.3**	**22.6**	**33.5**	**37.8**	**38.3**
Iran (E)	17.7	18.2	13.6	11.7	12.0	11.9	11.9	20.4	23.1	27.5
Israel	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Qatar	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Saudi Arabia			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other (E)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Middle East	**62.7**	**63.5**	**62.1**	**68.3**	**72.5**	**72.2**	**74.6**	**76.5**	**77.0**	**74.3**
Bangladesh										
Hong Kong (E)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
India	19.9	21.6	21.5	21.4	25.5	26.2	27.7	26.5	27.7	27.5
Indonesia	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Republic of Korea	23.3	25.2	29.1	29.5	31.4	34.5	32.4	31.6	29.5	31.1
Malaysia (E)	66.7	66.7	77.1	74.3	75.0	77.8	85.3	89.7	91.1	91.7
Pakistan (E)										
Philippines	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Singapore	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Taiwan (R.O.C.)	51.3	36.3	32.1	32.3	35.5	34.3	35.8	32.3	33.7	42.3
Thailand	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other (E)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total Asia	**30.4**	**30.6**	**32.1**	**32.7**	**35.1**	**37.1**	**37.5**	**35.9**	**36.3**	**39.1**
Total Developing Cts.	**34.5**	**34.8**	**35.7**	**36.1**	**36.3**	**36.7**	**37.6**	**37.1**	**37.7**	**40.4**
Total Western World	**27.4**	**29.3**	**30.4**	**30.7**	**31.0**	**32.3**	**33.0**	**32.8**	**33.2**	**34.4**
Albania (E)	40.0	41.7	42.9	43.8	44.4	40.0	40.0	40.0	42.0	40.0
Bulgaria	25.1	28.5	31.4	33.9	34.2	34.2	35.9	39.5	39.8	40.0
Czechoslovakia	12.9	13.5	13.8	14.2	13.6	13.5	13.2	13.7	13.1	13.2
German Dem. Rep.	28.7	30.6	31.3	31.3	30.8	30.3	30.8	30.8	30.5	31.4
Hungary	8.8	8.7	11.1	11.8	12.4	12.6	12.9	11.6	10.9	9.1
Poland	14.0	14.9	14.5	14.7	14.9	14.6	15.1	16.6	16.4	18.0
Romania	19.6	19.2	21.3	20.7	21.4	22.5	24.1	23.7	24.0	24.3
U.S.S.R.	10.9	11.2	11.2	11.4	11.7	14.1	13.5	13.4	13.1	13.0
Total Eastern Europe	**12.6**	**13.0**	**13.2**	**13.5**	**13.8**	**15.5**	**15.2**	**15.3**	**15.0**	**14.7**
Cuba										
China	18.4	18.5	20.3	20.8	21.5	20.2	20.4	20.3	20.7	21.1
D.P.R. Korea (E)	52.7	50.0	47.5	46.2	46.2	45.5	44.6	44.7	44.4	44.3
Total C.P.E.s	**14.3**	**14.7**	**15.1**	**15.5**	**15.9**	**17.0**	**16.9**	**17.0**	**16.9**	**17.0**
World Total	**22.8**	**23.7**	**24.5**	**25.0**	**25.4**	**26.3**	**26.7**	**26.9**	**27.2**	**28.1**

Table 29

CRUDE STEEL PRODUCTION IN O.H.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	280	237	255	262	233	146	115	35			
Denmark	454	454	484	435	514	462	387	319	360	311	175
France	4,438	3,780	3,245	3,273	2,927	1,538	1,312	694	452	385	202
F.R. Germany	11,819	8,537	8,331	9,040	9,287	6,735	6,086	4,922	4,523	4,578	2,939
Greece											
Ireland											
Italy	4,840	3,999	3,988	3,628	3,511	2,456	1,956	1,582	1,510	1,137	455
Luxembourg											
Netherlands	794	719	236	91	83	39	15				
Portugal											
Spain	1,952	1,664	1,355	1,457	1,372	1,100	929	956	608	655	634
United Kingdom	13,370	10,175	9,357	8,453	6,189	4,446	4,026	3,279	1,764	1,163	
E.C. Total	**37,947**	**29,565**	**27,251**	**26,639**	**24,116**	**16,922**	**14,826**	**11,787**	**9,217**	**8,229**	**4,405**
Austria	663	650	626	677	697	299	279	154	187	162	139
Finland	157	111	130	132	140	139	147	124	22		
Norway											
Sweden	1,275	1,182	1,100	1,151	1,160	879	674	413	340	282	206
Switzerland											
Turkey			634	591	643	625	610	581	598	582	572
Yugoslavia	1,610	1,660	1,722	1,718	1,763	1,788	1,651	1,581	1,494	1,476	1,459
Other Western Europe	**3,705**	**3,603**	**4,212**	**4,269**	**4,403**	**3,730**	**3,361**	**2,853**	**2,641**	**2,502**	**2,376**
Total Western Europe	**41,652**	**33,168**	**31,463**	**30,908**	**28,519**	**20,652**	**18,187**	**14,640**	**11,858**	**10,731**	**6,781**
Canada	9,547	9,313	4,686	4,219	3,427	3,080	3,006	2,880	3,029	3,295	3,251
United States	43,565	32,259	31,693	36,088	32,204	20,104	21,292	18,183	19,332	17,380	11,842
Japan	3,855	2,090	1,900	1,849	1,553	1,103	487	378			
Australia					2,134	2,182	2,069	1,743	1,675	1,865	1,635
New Zealand											
South Africa					1,586	1,030	908	667	793	786	683
Total Industrial Cts.	**98,619**	**76,830**	**69,742**	**73,064**	**69,423**	**48,151**	**45,949**	**38,491**	**36,687**	**34,057**	**24,192**
Argentina	1,300	1,342	1,336	1,126	956	954	1,085	1,276	972	789	444
Brazil	2,257	2,430	2,472	2,564	2,500	2,623	2,486	2,179	1,608	1,637	1,386
Central America											
Chile	547	610	581	508	596	458	300	104	8		
Colombia	201	204	234	221	204	228	220	178	232	200	228
Ecuador											
Mexico	2,284	2,243	2,281	2,336	2,331	2,185	2,154	1,628	1,506	1,467	1,350
Paraguay											
Peru											
Trinidad & Tobago											
Uruguay	15	13	11	11	13	15	14	18	6	15	8
Venezuela	789	771	967	907	896	921	752	676	653	708	636
Total Latin America	**7,393**	**7,614**	**7,883**	**7,673**	**7,496**	**7,385**	**7,010**	**6,058**	**4,986**	**4,816**	**4,052**

E - estimate

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Belgium	2.2	1.9	1.8	1.7	1.4	1.3	0.9	0.3			
Denmark	96.0	95.6	97.2	96.2	95.9	82.9	53.6	46.5	41.7	38.7	23.8
France	18.7	16.5	13.5	13.0	10.8	7.1	5.6	3.1	2.0	1.6	0.9
F.R. Germany	26.2	21.2	19.1	18.3	17.4	16.7	14.3	12.6	11.0	9.9	6.7
Greece											
Ireland											
Italy	28.0	22.9	20.1	17.3	14.8	11.2	8.3	6.8	6.2	4.7	1.7
Luxembourg											
Netherlands	15.8	14.1	4.2	1.6	1.4	0.8	0.3				
Portugal											
Spain	26.3	21.3	14.2	13.5	11.8	9.8	8.4	8.6	5.4	5.3	5.0
United Kingdom	47.3	42.1	37.0	31.8	27.7	22.1	18.1	16.1	8.7	5.4	
E.C. Total	**26.0**	**21.6**	**18.2**	**16.4**	**14.3**	**12.3**	**10.1**	**8.5**	**6.3**	**5.3**	**3.1**
Austria	16.3	16.4	15.4	16.0	14.8	7.3	6.2	3.8	4.3	3.3	3.0
Finland	13.4	10.8	8.9	8.2	8.5	8.6	8.9	5.6	0.9		
Norway											
Sweden	23.2	22.4	20.9	20.3	19.4	15.7	13.1	10.4	7.9	6.0	4.9
Switzerland											
Turkey			40.7	43.6	40.4	36.7	30.9	30.5	27.5	24.3	22.6
Yugoslavia	72.3	67.7	66.5	64.2	62.2	61.3	60.0	49.7	43.2	41.8	40.1
Other Western Europe	**23.6**	**23.5**	**25.7**	**25.0**	**24.1**	**21.6**	**19.3**	**17.1**	**14.5**	**12.6**	**12.3**
Total Western Europe	**25.7**	**21.8**	**19.0**	**17.3**	**15.3**	**13.3**	**11.1**	**9.4**	**7.3**	**6.2**	**4.2**
Canada	85.2	84.4	39.5	31.5	25.1	23.6	22.9	21.1	20.3	20.5	20.4
United States	36.5	29.5	26.2	26.4	24.4	19.0	18.3	16.0	15.6	14.1	11.7
Japan	4.1	2.4	2.0	1.5	1.3	1.1	0.5	0.4			
Australia					27.4	27.8	26.6	23.8	22.1	23.0	21.5
New Zealand											
South Africa					27.2	15.1	12.8	9.1	10.0	8.9	7.5
Total Industrial Cts.	**24.8**	**20.6**	**17.1**	**15.8**	**15.0**	**12.3**	**11.1**	**9.6**	**8.7**	**7.7**	**5.9**
Argentina	71.3	70.2	62.1	52.2	40.6	43.2	45.1	47.6	34.9	24.7	16.5
Brazil	41.9	40.4	37.9	35.9	33.3	31.6	27.1	19.5	13.3	11.8	9.0
Central America											
Chile	92.4	93.3	92.1	92.5	93.8	93.6	62.5	18.9	1.4		
Colombia											
Ecuador											
Mexico	58.9	58.7	51.5	49.1	45.4	41.4	40.7	29.1	22.2	20.6	18.9
Paraguay											
Peru											
Trinidad & Tobago											
Uruguay	90.8	91.8	90.9	92.0	93.0	91.7	90.0	93.6	82.5	92.6	44.4
Venezuela	85.2	83.5	85.8	85.3	84.7	83.8	80.2	79.2	76.1	48.0	32.2
Total Latin America	**56.7**	**55.0**	**51.0**	**46.7**	**42.8**	**40.5**	**36.8**	**28.0**	**20.8**	**17.7**	**14.0**

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

thousand metric tons

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					30	30	30	30	30	30	30
Egypt					100	100	98	135	136	163	50
Nigeria											
Tunisia											
Zimbabwe											
Other Africa (E)											
Total Africa					**130**	**130**	**128**	**165**	**166**	**193**	**80**
Iran (E)											
Israel											
Qatar											
Saudi Arabia											
Other (E)											
Total Middle East											
Bangladesh	177	116	107	68	74	76	90	108	120	125	131
Hong Kong (E)											
India					5,002	5,689	6,116	6,398	6,048	5,670	5,509
Indonesia											
Republic of Korea					60	50	50	98	108	104	100
Malaysia (E)											
Pakistan (E)											
Philippines											
Singapore											
Taiwan (R.O.C.)											
Thailand											
Other (E)											
Total Asia	**177**	**116**	**107**	**68**	**5,136**	**5,815**	**6,256**	**6,604**	**6,276**	**5,899**	**5,740**
Total Developing Cts.	**7,570**	**7,730**	**7,990**	**7,741**	**12,762**	**13,330**	**13,394**	**12,827**	**11,428**	**10,908**	**9,872**
Total Western World	**106,189**	**84,559**	**77,732**	**80,804**	**82,185**	**61,481**	**59,343**	**51,318**	**48,114**	**44,965**	**34,064**
Albania (E)											
Bulgaria	470	499	512	492	511	516	491	487	496	481	464
Czechoslovakia (E:70-71)	7,800	8,150	8,502	8,727	8,998	9,191	9,306	9,434	9,544	9,466	9,330
German Dem. Rep.					4,411	4,499	4,636	4,706	4,611	4,561	4,564
Hungary	2,820	2,819	2,977	3,021	3,138	3,336	3,314	2,877	3,534	3,567	3,419
Poland	9,345	9,497	9,517	9,664	9,856	9,992	10,014	10,045	9,535	9,058	9,102
Romania	4,038	4,140	4,261	4,512	4,681	4,768	4,930	5,150	4,786	4,918	4,832
U.S.S.R.	84,052	84,781		89,084	90,717	91,481	91,800	91,900	92,849	90,400	89,100
Total Eastern Europe	**108,525**	**109,886**	**25,769**	**115,500**	**122,312**	**123,783**	**124,491**	**124,599**	**125,355**	**122,451**	**120,811**
Cuba	140	160	185	220	240	298	296	302	324	328	304
China	9,248	10,119	10,469	10,444	8,335	8,892	7,922	8,805	11,271	11,348	11,890
D.P.R. Korea (E)					1,800	1,800	1,800	1,800	1,800	1,800	1,800
Total C.P.E.s	**117,913**	**120,165**	**36,423**	**126,164**	**132,687**	**134,773**	**134,509**	**135,506**	**138,750**	**135,927**	**134,805**
World Total	**224,102**	**204,724**	**114,155**	**206,968**	**214,872**	**196,254**	**193,852**	**186,824**	**186,864**	**180,892**	**168,869**

E - estimate

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

percentage of total crude steel production

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Algeria (E)					23.8	23.8	14.6	10.5	14.2	6.7	7.7
Egypt					20.4	14.3	14.0	16.5	16.5	17.6	5.2
Nigeria											
Tunisia											
Zimbabwe											
Other Africa (E)											
Total Africa					**9.9**	**8.4**	**7.0**	**8.0**	**8.1**	**8.1**	**3.3**
Iran (E)											
Israel											
Qatar											
Saudi Arabia											
Other (E)											
Total Middle East											
Bangladesh					100.0	100.0	100.0	100.0	100.0	100.0	100.0
Hong Kong (E)											
India					70.8	71.2	65.3	63.9	59.9	56.0	57.9
Indonesia											
Republic of Korea					3.1	2.5	1.4	2.3	2.2	1.4	1.2
Malaysia (E)											
Pakistan (E)											
Philippines											
Singapore											
Taiwan (R.O.C.)											
Thailand											
Other (E)											
Total Asia	**2.2**	**1.5**	**1.2**	**0.7**	**47.3**	**48.7**	**40.6**	**37.6**	**31.3**	**26.1**	**24.3**
Total Developing Cts.	**34.4**	**33.8**	**30.8**	**27.9**	**41.9**	**41.1**	**36.3**	**29.7**	**24.0**	**20.1**	**17.6**
Total Western World	**25.3**	**21.4**	**17.9**	**16.5**	**16.6**	**14.5**	**13.1**	**11.6**	**10.3**	**9.0**	**7.3**
Albania (E)											
Bulgaria	26.1	25.6	24.1	21.9	23.4	22.8	20.0	18.8	20.1	19.4	18.1
Czechoslovakia (E:70-71)	67.9	67.6	66.8	66.3	66.0	64.2	63.3	62.6	62.4	63.9	61.3
German Dem. Rep.					71.5	69.4	68.8	68.7	66.1	64.9	62.5
Hungary	90.7	90.6	91.0	90.7	90.5	90.8	90.7	77.3	91.2	91.3	90.8
Poland	79.5	74.9	70.9	68.7	67.7	66.6	64.0	56.3	49.5	47.1	46.7
Romania	62.0	60.9	57.6	55.3	53.0	49.9	44.9	45.0	40.6	38.1	36.7
U.S.S.R.	72.5	70.3		67.8	66.6	64.7	63.4	62.7	61.3	60.6	60.2
Total Eastern Europe	**69.6**	**67.4**	**15.1**	**64.8**	**66.1**	**64.2**	**62.6**	**61.0**	**59.4**	**58.5**	**57.7**
Cuba	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
China	52.0	47.5	44.8	41.4	39.5	37.2	38.7	37.1	35.5	32.9	32.0
D.P.R. Korea (E)					56.3	62.1	60.0	45.0	35.4	33.3	31.0
Total C.P.E.s	**67.0**	**64.3**	**18.5**	**61.0**	**63.3**	**61.3**	**60.4**	**58.3**	**55.9**	**54.4**	**53.3**
World Total	**37.6**	**35.2**	**18.1**	**29.7**	**30.5**	**30.5**	**28.7**	**27.7**	**26.1**	**24.2**	**23.6**

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium										
Denmark										
France	73	34								
F.R. Germany	1,641	530								
Greece										
Ireland										
Italy	10									
Luxembourg										
Netherlands										
Portugal										
Spain	601	419	254							
United Kingdom										
E.C. Total	**2,325**	**983**	**254**							
Austria	125	97								
Finland										
Norway										
Sweden	95									
Switzerland										
Turkey	533	540	549	459	519	608	595	582	322	605
Yugoslavia	1,504	1,463	1,433	1,440	1,524	1,509	1,301	1,158	1,099	793
Other Western Europe	**2,257**	**2,100**	**1,982**	**1,899**	**2,043**	**2,117**	**1,896**	**1,740**	**1,421**	**1,398**
Total Western Europe	**4,582**	**3,083**	**2,236**	**1,899**	**2,043**	**2,117**	**1,896**	**1,740**	**1,421**	**1,398**
Canada	1,999	1,647	921							
United States	12,203	5,543	5,399	7,562	5,831	3,021	2,419	4,643	4,029	3,171
Japan										
Australia	1,645	806								
New Zealand										
South Africa	453	233								
Total Industrial Cts.	**20,882**	**11,312**	**8,556**	**9,461**	**7,874**	**5,138**	**4,315**	**6,383**	**5,450**	**4,569**
Argentina	327	635	670	591	438	341	380	425	206	29
Brazil	971	965	806	807	747	516	366	196	1	
Central America										
Chile										
Colombia	188	99	32	28	11	18	10	10	4	
Ecuador										
Mexico	1,318	1,080	811	933	1,019	854	1,309	929	821	713
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay										
Venezuela	567	414	391	552	473	604	563	571	491	298
Total Latin America	**3,371**	**3,192**	**2,710**	**2,911**	**2,688**	**2,333**	**2,627**	**2,131**	**1,524**	**1,041**

E - estimate

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium										
Denmark										
France	0.3	0.2								
F.R. Germany	3.9	1.5								
Greece										
Ireland										
Italy	0.0									
Luxembourg										
Netherlands										
Portugal										
Spain	4.7	3.2	2.0							
United Kingdom										
E.C. Total	**1.7**	**0.8**	**0.2**							
Austria	2.7	2.3								
Finland										
Norway										
Sweden	2.5									
Switzerland										
Turkey	22.0	17.0	14.3	10.6	10.7	10.3	8.4	7.3	4.1	6.5
Yugoslavia	37.8	38.1	34.7	34.0	34.0	33.4	29.8	25.8	24.4	22.0
Other Western Europe	**11.9**	**10.9**	**9.6**	**8.4**	**8.8**	**8.8**	**7.7**	**6.6**	**5.4**	**5.4**
Total Western Europe	**2.9**	**2.1**	**1.6**	**1.2**	**1.3**	**1.4**	**1.3**	**1.1**	**0.9**	**0.9**
Canada	13.5	13.9	7.2							
United States	11.1	8.2	7.0	9.0	7.3	4.1	3.0	5.1	4.5	3.6
Japan										
Australia	21.5	12.7								
New Zealand										
South Africa	5.0	2.8								
Total Industrial Cts.	**5.2**	**3.3**	**2.5**	**2.5**	**2.1**	**1.5**	**1.2**	**1.6**	**1.4**	**1.2**
Argentina	12.9	21.8	22.8	22.3	14.9	10.5	10.4	11.7	5.3	0.8
Brazil	7.3	7.4	5.5	4.4	3.7	2.4	1.6	0.8	0.0	
Central America										
Chile										
Colombia										
Ecuador										
Mexico	17.2	15.3	11.6	12.3	13.8	11.8	17.1	11.9	10.5	8.2
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay										
Venezuela	28.0	18.6	16.5	19.9	15.5	17.7	15.2	15.7	15.4	9.4
Total Latin America	**12.5**	**11.9**	**9.4**	**8.8**	**7.5**	**6.2**	**6.6**	**5.0**	**3.6**	**2.7**

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	30	30	30	30	30	30	34	38	30	30 E
Egypt	50	103	127	30	137	138	136	140	128	125 E
Nigeria										
Tunisia										
Zimbabwe										
Other Africa (E)										
Total Africa	**80**	**133**	**157**	**60**	**167**	**168**	**170**	**178**	**158**	**155**
Iran (E)										
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East										
Bangladesh	134	78	58	88	122	116	120	120	120	120 E
Hong Kong (E)										
India	5,883	5,834	5,215	4,859	4,932	4,661	4,606	4,875	4,629	4,676
Indonesia										
Republic of Korea	53									
Malaysia (E)										
Pakistan (E)										
Philippines										
Singapore										
Taiwan (R.O.C.)										
Thailand										
Other (E)										
Total Asia	**6,070**	**5,912**	**5,273**	**4,947**	**5,054**	**4,777**	**4,726**	**4,995**	**4,749**	**4,796**
Total Developing Cts.	**9,521**	**9,237**	**8,140**	**7,918**	**7,909**	**7,278**	**7,523**	**7,304**	**6,431**	**5,992**
Total Western World	**30,403**	**20,549**	**16,696**	**17,379**	**15,783**	**12,416**	**11,838**	**13,687**	**11,881**	**10,561**
Albania (E)										
Bulgaria	423	395	381	325	315	315	317	317	290	240
Czechoslovakia	9,186	8,962	8,908	7,756	6,809	6,511	6,339	6,235	6,202	5,817
German Dem. Rep.	4,543	4,304	4,267	3,998	3,525	3,400	3,400	3,309	3,042	1,890
Hungary	2,816	2,156	2,022	2,012	1,874	1,814	1,541	1,510	1,411	1,181
Poland	7,509	6,306	6,986	7,059	6,894	7,088	7,069	6,620	5,387	3,965
Romania	4,674	4,437	4,224	4,389	4,148	4,207	4,162	3,960	3,503	2,117
U.S.S.R.	87,550	86,300	87,000	86,500	85,650	85,250	85,757	85,552	83,554	79,846
Total Eastern Europe	**116,701**	**112,860**	**113,788**	**112,039**	**109,215**	**108,585**	**108,585**	**107,503**	**103,389**	**95,056**
Cuba	330	301	364	338	408	411	402	314	336	270
China	11,188	11,648	11,907	12,145	12,300	12,358	12,778	13,044	13,130	13,157
D.P.R. Korea (E)	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800 E
Total C.P.E.s	**130,019**	**126,609**	**127,859**	**126,322**	**123,723**	**123,154**	**123,565**	**122,661**	**118,655**	**110,283**
World Total	**160,422**	**147,158**	**144,555**	**143,701**	**139,506**	**135,570**	**135,403**	**136,348**	**130,535**	**120,844**

E - estimate

Table 29
(continued)

CRUDE STEEL PRODUCTION IN O.H.F.s

percentage of total crude steel production

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria (E)	5.4	3.5	3.4	4.0	2.1	2.1	2.2	2.7	2.9	2.9
Egypt	4.9	9.6	13.0	3.2	13.3	13.6	9.5	6.9	6.1	5.6
Nigeria										
Tunisia										
Zimbabwe										
Other Africa (E)										
Total Africa	**3.2**	**4.8**	**5.3**	**2.3**	**4.5**	**4.7**	**4.2**	**4.0**	**3.8**	**3.6**
Iran (E)										
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East										
Bangladesh	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Hong Kong (E)										
India	54.6	53.1	50.9	46.1	41.3	38.2	35.1	34.1	31.7	31.3
Indonesia										
Republic of Korea	0.5									
Malaysia (E)										
Pakistan (E)										
Philippines										
Singapore										
Taiwan (R.O.C.)										
Thailand										
Other (E)										
Total Asia	**22.7**	**20.3**	**17.8**	**15.7**	**14.6**	**12.9**	**11.5**	**10.5**	**9.1**	**8.6**
Total Developing Cts.	**16.5**	**15.4**	**12.9**	**11.3**	**10.3**	**9.0**	**8.6**	**7.5**	**6.3**	**5.9**
Total Western World	**6.6**	**5.2**	**4.1**	**3.9**	**3.5**	**2.9**	**2.6**	**2.8**	**2.4**	**2.1**
Albania (E)										
Bulgaria	17.0	15.3	13.5	11.3	10.7	10.9	10.4	11.0	10.0	10.0
Czechoslovakia	60.2	59.8	59.3	52.3	45.3	43.1	41.1	40.5	40.1	39.1
German Dem. Rep.	60.8	60.0	59.1	52.8	44.9	42.7	41.2	40.7	38.9	34.0
Hungary	77.3	58.2	55.9	53.4	51.4	48.8	42.5	42.2	42.6	41.2
Poland	47.8	42.6	43.0	42.7	42.8	41.3	41.2	39.2	35.7	29.1
Romania	35.9	34.0	33.5	30.4	30.1	29.5	27.8	27.7	24.3	21.7
U.S.S.R.	58.9	58.6	57.0	56.1	55.4	53.1	53.0	52.5	52.2	51.7
Total Eastern Europe	**56.6**	**55.5**	**54.2**	**52.3**	**51.0**	**49.0**	**48.4**	**47.9**	**47.2**	**46.7**
Cuba	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
China	31.4	31.3	29.8	27.9	26.3	23.7	22.7	21.9	21.3	19.8
D.P.R. Korea (E)	32.7	31.0	29.5	27.7	27.7	27.3	26.7	26.4	26.0	25.7
Total C.P.E.s	**52.5**	**51.3**	**49.8**	**47.7**	**46.2**	**43.8**	**42.9**	**42.2**	**41.2**	**39.8**
World Total	**22.7**	**22.8**	**21.8**	**20.2**	**19.4**	**19.0**	**18.4**	**17.5**	**16.6**	**15.7**

Table 30

STEEL TUBE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	226	193	268	314	305	270	240	346	335	330
Denmark										
France	2,064	1,877	1,617	1,751	1,735	1,671	1,402	1,537	1,640	1,428
F.R. Germany	5,430	4,629	4,704	5,077	5,494	4,748	4,209	4,549	4,313	3,832
Greece	320	281	244	310	242	226				
Ireland										
Italy	3,802	3,547	3,302	3,447	3,018	2,915	3,626	3,549	4,128	4,100
Luxembourg	124	120	147	146	144	123	133	135	111	107
Netherlands	271	260	270	290	300	310	315	325	360	375
Portugal	76	85	66	48	62	52	58	35	82	80
Spain	1,100	1,006	1,189	1,062	1,059	930	917	971	1,053	1,037
United Kingdom	1,151	1,259	1,207	1,350	1,313	1,192	1,318	1,481	1,521	1,467
E.C. Total	**14,564**	**13,257**	**13,014**	**13,795**	**13,672**	**12,437**	**12,218**	**12,928**	**13,543**	**12,756**
Austria	338	393	418	511	506	453	496	645	653	671
Finland	194	172	191	197	217	222	233	257	248	235
Norway								94	79	80
Sweden (a)	271	257	220	244	247	238	248	273	254	231
Switzerland	169	154	154	160	194	192	197	220		
Turkey				514		492	663	606	702	760
Yugoslavia	604	621	568	661	668	692	628	697	699	590
Other	1	4	6	7	5	5	5	5	5	5
Other Western Europe	**1,577**	**1,601**	**1,557**	**2,294**	**1,837**	**2,294**	**2,470**	**2,797**	**2,640**	**2,572**
Total Western Europe	**16,141**	**14,858**	**14,571**	**16,089**	**15,509**	**14,731**	**14,688**	**15,725**	**16,183**	**15,328**
Canada	1,852	1,226	995	394	1,460	1,182				
United States	9,331	4,560	2,942	3,879	3,717	2,565	3,238	4,031	3,638	
Japan	13,097	12,189	9,737	11,519	12,224	10,515	9,686	11,031	10,036	10,527
Australia	553	472	468	462			468			
New Zealand	34	34	43	31	35	34	20	29	43	32
South Africa	517	488	426	432	505	496	460	607	556	536
Total Industrial Cts.	**41,524**	**33,826**	**29,181**	**32,805**	**33,451**	**29,523**	**28,560**	**31,423**	**30,456**	**26,423**
Argentina	530	500	505	406	541	493	800	807	774	511
Brazil	1,033	813	694	1,101	1,095	1,210	963	962	961	744
Central America			6	7	6	8	10	8	6	
Chile										
Colombia	21	24	23	23	24	32	31	34	26	
Ecuador	9	13	17				17	3		
Mexico	889	828	696	812	762	547	683	715	722	330
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay	2	1	2	1	1	1	1	1	2	2
Venezuela	91	345	397	356	320	328	351	352	294	78
Total Latin America	**2,576**	**2,523**	**2,340**	**2,706**	**2,749**	**2,620**	**2,856**	**2,884**	**2,786**	**1,664**

Table 30
(continued)

STEEL TUBE PRODUCTION
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	147	198	232	245	226	220	154			
Egypt					99					
Nigeria										
Tunisia	2	1	2	8	12	19	18	20	5	
Zimbabwe										
Other Africa					37	35	35			
Total Africa	**149**	**199**	**234**	**253**	**374**	**274**	**207**	**20**	**5**	
Iran										46
Israel										
Qatar										
Saudi Arabia										
Other (E)					143	70	17	16	30	
Total Middle East					**143**	**70**	**17**	**16**	**30**	**46**
Bangladesh										
Hong Kong										
India	813	920	845	895	893	910	925			
Indonesia	251	284	247	240						
Republic of Korea	1,424	1,298	1,666	1,872	1,881	1,663	1,863	2,206		
Malaysia	168	195	232	214	185	174	201	253		
Pakistan										
Philippines										
Singapore	60	60	60	50	50	50	50	50	50	
Taiwan (R.O.C.)	430	430	503	402	327	410	428	507	525	
Thailand										
Other (E)										
Total Asia	**3,145**	**3,186**	**3,553**	**3,673**	**3,336**	**3,206**	**3,467**	**3,016**	**575**	
Total Developing Cts.	**5,870**	**5,908**	**6,127**	**6,632**	**6,602**	**6,170**	**6,547**	**5,936**	**3,396**	**1,710**
Total Western World	**47,395**	**39,734**	**35,309**	**39,437**	**40,053**	**35,693**	**35,107**	**37,360**	**33,851**	**28,133**
Albania (E)										
Bulgaria	269	275	283	293	286	284	285	277	338	
Czechoslovakia	1,528	1,528	1,521	1,521	1,554	1,565	1,586	1,579	1,579	1,568
German Dem. Rep.	724	736	698	732	754	768	773	767	786	
Hungary	281	266	266	278	281	293	308	280	264	
Poland	1,042	940	994	1,009	992	1,027	1,038	1,054	971	567
Romania	1,429	1,422	1,411	1,507	1,513	1,565	1,394			
U.S.S.R.	18,268	17,944	18,732	18,883	19,354	19,817	20,346	20,840	20,567	
Total Eastern Europe	**23,541**	**23,111**	**23,905**	**24,223**	**24,734**	**25,319**	**25,730**	**24,797**	**24,506**	**2,134**
Cuba	1		1			1	2	2		
China	2,215	2,510	2,746	2,998	3,206	3,754	4,077	4,025	4,083	4,320
D.P.R. Korea (E)										
Total C.P.E.s	**25,757**	**25,621**	**26,652**	**27,221**	**27,940**	**29,074**	**29,809**	**28,824**	**28,589**	**6,454**
World Total	**73,152**	**65,355**	**61,961**	**66,658**	**67,993**	**64,767**	**64,916**	**66,184**	**62,440**	**34,587**

E - estimate
a - deliveries

Totals of available data only.

Table 31

SEAMLESS TUBE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	109	124	153	254	240	146	87	156	135	130 E
Denmark										
France	737	648	596	654	624	520	412	527	574	501
F.R. Germany	2,357	1,878	1,760	2,058	2,219	1,745	1,788	1,983	1,823	1,620
Greece										
Ireland										
Italy	1,093	1,010	753	872	858	737	1,250	1,250	1,212	1,200 E
Luxembourg										
Netherlands										
Portugal										
Spain	342	308	401	344	410	386	292	294	286	284
United Kingdom	427	461	376	419	409	318	350	367	398	377
E.C. Total	**5,065**	**4,429**	**4,039**	**4,601**	**4,760**	**3,852**	**4,179**	**4,577**	**4,428**	**4,112**
Austria	103	144	181	251	262	221	226	307	331	333
Finland	3	3	14	16	17	19	12	2		
Norway										
Sweden (a)	202	183	145	160	160	157	164	179	175	144
Switzerland										
Turkey						64	79	47	56	60 E
Yugoslavia	146	148	122	148	145	142	151	163	167	127
Other										
Other Western Europe	**454**	**478**	**462**	**575**	**584**	**603**	**632**	**698**	**729**	**664**
Total Western Europe	**5,519**	**4,907**	**4,501**	**5,176**	**5,344**	**4,455**	**4,811**	**5,275**	**5,157**	**4,776**
Canada										
United States	4,344	1,736	847	1,502	1,517	773	1,016	1,386	1,259	
Japan	4,324	3,893	2,959	4,031	4,082	3,104	2,976	3,663	2,527	2,794
Australia										
New Zealand										
South Africa			16	17	18	21	17	18	16	16
Total Industrial Cts.	**14,187**	**10,536**	**8,323**	**10,726**	**10,961**	**8,353**	**8,820**	**10,343**	**8,959**	**7,586**
Argentina	309	313	316	312	372	331	388	430	484	511
Brazil	357	300	209	339	385	390	344	329	314	239
Central America										
Chile										
Colombia										
Ecuador										
Mexico	251	265	234	326	292	208	282	341	355	330
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay	2	1	2	1	1	1	1	1	2	2
Venezuela	91	107	98	99	119	105	101	119	116	78
Total Latin America	**1,010**	**986**	**858**	**1,077**	**1,169**	**1,034**	**1,116**	**1,221**	**1,271**	**1,159**

E - estimate

Table 31
(continued)

SEAMLESS TUBE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria			42	33	25	20	14			
Egypt										
Nigeria										
Tunisia										
Zimbabwe										
Other Africa										
Total Africa	**0**	**0**	**42**	**33**	**25**	**20**	**14**	**0**	**0**	**0**
Iran										36
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**36**
Bangladesh										
Hong Kong										
India	46	47	45	45	46	56	65			
Indonesia										
Republic of Korea	12	11	9	9	8	11	15	47		
Malaysia	23	25	22							
Pakistan										
Philippines										
Singapore										
Taiwan (R.O.C.)										
Thailand										
Other (E)										
Total Asia	**81**	**83**	**76**	**54**	**54**	**67**	**80**	**47**	**0**	**0**
Total Developing Cts.	**1,091**	**1,069**	**976**	**1,164**	**1,247**	**1,121**	**1,210**	**1,268**	**1,271**	**1,195**
Total Western World	**15,278**	**11,605**	**9,299**	**11,890**	**12,208**	**9,474**	**10,029**	**11,610**	**10,230**	**8,781**
Albania (E)										
Bulgaria	79	70	72	69	71	66	64	53	67	
Czechoslovakia	953	945	940	941	959	958	970	973	965	962
German Dem. Rep.	440	431	406	429	444	449	465	453	468	
Hungary	167	155	169	174	174	181	184	168	167	
Poland	461	423	448	455	410	453	462	485	452	299
Romania	783	765	770	859	826	909	864			
U.S.S.R.	7,382	7,347	7,547	7,679	7,794	7,829	7,902	8,075	8,001	
Total Eastern Europe	**10,265**	**10,136**	**10,352**	**10,606**	**10,678**	**10,845**	**10,911**	**10,207**	**10,119**	**1,262**
Cuba										
P.R. China	919	1,012	1,151	1,277	1,393	1,462	1,629	1,783	1,941	2,112
D.P.R. Korea (E)										
Total C.P.E.s	**11,184**	**11,148**	**11,503**	**11,883**	**12,071**	**12,307**	**12,540**	**11,990**	**12,060**	**3,374**
World Total	**26,462**	**22,753**	**20,802**	**23,773**	**24,279**	**21,781**	**22,569**	**23,600**	**22,290**	**12,155**

E - estimate
a - deliveries

Totals of available data only.

Table 32

WELDED TUBE PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	117	69	115	60	65	124	153	190	200	200 E
Denmark										
France	1,327	1,229	1,021	1,097	1,111	1,151	990	1,010	1,066	927
F.R. Germany	3,073	2,751	2,944	3,019	3,275	3,003	2,421	2,566	2,490	2,212
Greece										
Ireland										
Italy	2,709	2,537	2,549	2,575	2,160	2,178	2,376	2,299	2,916	2,900 E
Luxembourg	124	120	147	146	144	123	133	135	111	107
Netherlands	271	260	270	290	300	310	315	325	360	375
Portugal	76	85	66	48	62	52	58	35	82	80 E
Spain	758	698	788	718	649	544	625	677	767	753
United Kingdom	724	798	831	931	904	874	968	1,114	1,123	1,090
E.C. Total	**9,179**	**8,547**	**8,731**	**8,884**	**8,670**	**8,359**	**8,039**	**8,351**	**9,115**	**8,644**
Austria	235	249	237	260	244	232	270	338	322	338
Finland	191	169	177	181	200	203	221	255	248	235
Norway								94	79	80 E
Sweden (a)	69	74	75	84	87	81	84	94	79	87
Switzerland								220		
Turkey				514		428	584	559	646	700 E
Yugoslavia	458	473	446	513	523	550	477	534	532	463
Other	1	4	6	7	5	5	5	5	5	5
Other Western Europe	**954**	**969**	**941**	**1,559**	**1,059**	**1,499**	**1,641**	**2,099**	**1,911**	**1,908**
Total Western Europe	**10,133**	**9,516**	**9,672**	**10,443**	**9,729**	**9,858**	**9,680**	**10,450**	**11,026**	**10,552**
Canada										
United States	4,987	2,824	2,095	2,377	2,200	1,792	2,222	2,645	2,379	
Japan	8,773	8,296	6,778	7,488	8,142	7,412	6,710	7,368	7,509	7,733
Australia	553	472	468	462			468			
New Zealand	34	34	43	31	35	34	20	29	43	32
South Africa	517	488	410	415	487	475	443	589	540	520
Total Industrial Cts.	**24,996**	**21,629**	**19,465**	**21,215**	**20,594**	**19,571**	**19,543**	**21,081**	**21,497**	**18,837**
Argentina	221	187	190	95	169	162	412	377	290	
Brazil	676	513	485	762	710	820	619	633	647	505
Central America			6	7	6	8	10	8	6	
Chile										
Colombia	21	24	23	23	24	32	31	34	26	
Ecuador	9	13	17				17	3		
Mexico	638	563	462	486	470	339	402	374	367	
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay										
Venezuela		237	299	257	201	224	250	233	178	
Total Latin America	**1,566**	**1,537**	**1,483**	**1,629**	**1,580**	**1,585**	**1,740**	**1,663**	**1,514**	**505**

E - estimate

Table 32
(continued)

WELDED TUBE PRODUCTION
thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	147	198	190	212	201	200	140			
Egypt					99					
Nigeria										
Tunisia	2	1	2	8	12	19	18	20	5	
Zimbabwe										
Other Africa					37	35	35			
Total Africa	**149**	**199**	**192**	**220**	**349**	**254**	**193**	**20**	**5**	**0**
Iran										10
Israel										
Qatar										
Saudi Arabia										
Other (E)					143	70	17	16	30	
Total Middle East	**0**	**0**	**0**	**0**	**143**	**70**	**17**	**16**	**30**	**10**
Bangladesh										
Hong Kong										
India	767	873	800	850	847	854	860			
Indonesia	251	284	247	240						
Republic of Korea	1,411	1,287	1,657	1,863	1,874	1,651	1,848	2,159		
Malaysia	145	170	210	214	185	174	201	253		
Pakistan										
Philippines										
Singapore	60	60	60	50	50	50	50	50	50	
Taiwan (R.O.C.)	430	430	503	402	327	410	428	507	525	
Thailand										
Other (E)										
Total Asia	**3,064**	**3,103**	**3,477**	**3,619**	**3,283**	**3,139**	**3,387**	**2,969**	**575**	**0**
Total Developing Cts.	**4,779**	**4,839**	**5,152**	**5,468**	**5,355**	**5,048**	**5,337**	**4,668**	**2,124**	**515**
Total Western World	**29,775**	**26,468**	**24,617**	**26,683**	**25,948**	**24,619**	**24,880**	**25,749**	**23,621**	**19,352**
Albania (E)										
Bulgaria	190	205	211	224	215	218	221	224	271	
Czechoslovakia	576	583	581	580	595	607	616	607	615	605
German Dem. Rep.	284	305	292	303	310	319	308	314	318	
Hungary	114	111	97	104	107	112	124	112	97	
Poland	581	517	546	554	582	574	576	569	520	267
Romania	646	657	641	648	687	656	530			
U.S.S.R.	10,886	10,597	11,185	11,204	11,560	11,988	12,444	12,765	12,566	
Total Eastern Europe	**13,277**	**12,975**	**13,553**	**13,617**	**14,056**	**14,474**	**14,819**	**14,591**	**14,386**	**872**
Cuba	1	0	1	0	0	1	2	2		
P.R. China	1,296	1,498	1,595	1,721	1,813	2,292	2,448	2,242	2,142	2,208
D.P.R. Korea (E)										
Total C.P.E.s	**14,574**	**14,473**	**15,149**	**15,338**	**15,869**	**16,767**	**17,269**	**16,835**	**16,528**	**3,080**
World Total	**44,349**	**40,941**	**39,766**	**42,021**	**41,817**	**41,386**	**42,149**	**42,584**	**40,150**	**22,432**

E - estimate
a - deliveries

Totals of available data only.

Table 33

STAINLESS STEEL PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Belgium	104	113	133	148	160	165	182	264	326	372
Denmark										
France	508	529	545	651	579	626	725	790	729	799
F.R. Germany	800	720	782	920	856	940	1,001	1,232	1,218	
Greece										
Ireland										
Italy	402	447	444	521	519	541	551	626	629	575
Luxembourg										
Netherlands										
Portugal										
Spain	165	193	198	284	271	274	310	426	366	458
United Kingdom	259	249	253	285	309	321	418	453	405	413
E.C. Total	**2,238**	**2,251**	**2,355**	**2,809**	**2,694**	**2,867**	**3,187**	**3,791**	**3,673**	**2,617**
Austria	71	74	68	78	68	48	54	67	64	49
Finland	87	109	123	158	176	173	189	206	192	226
Norway										
Sweden	330	329	371	442	435	435	457	482	457	471
Switzerland										
Turkey	60	41	49	32	25	294	286	226	283	209
Yugoslavia										
Other Western Europe	**548**	**553**	**611**	**710**	**704**	**950**	**986**	**981**	**996**	**955**
Total Western Europe	**2,786**	**2,804**	**2,966**	**3,519**	**3,398**	**3,817**	**4,173**	**4,772**	**4,669**	**3,572**
Canada								127		
United States	1,581	1,120	1,588	1,608	1,527	1,532	1,840	1,995	1,747	1,848
Japan	1,862	2,121	2,230	2,595	2,638	2,570	2,722	3,160	3,134	3,130
Australia	38	27	28	39	38	41	44	35	ceased production	
New Zealand										
South Africa	20	28	43	70	88	80	99	101	104	93
Total Industrial Cts.	**6,288**	**6,101**	**6,855**	**7,830**	**7,689**	**8,040**	**8,878**	**10,189**	**9,655**	**8,643**
Argentina										
Brazil	77	69	74	88	105	116	141	138	144	137
Central America										
Chile										
Colombia										
Ecuador										
Mexico										
Paraguay										
Peru										
Trinidad & Tobago										
Uruguay										
Venezuela										
Total Latin America	**77**	**69**	**74**	**88**	**105**	**116**	**141**	**138**	**144**	**137**

E - estimate

Table 33
(continued)

STAINLESS STEEL PRODUCTION

thousand metric tons

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria										
Egypt										
Nigeria										
Tunisia										
Zimbabwe										
Other Africa (E)										
Total Africa	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Iran										
Israel										
Qatar										
Saudi Arabia										
Other (E)										
Total Middle East	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bangladesh										
Hong Kong										
India	39	60	110	65	74	100	126	134	132	169
Indonesia										
Republic of Korea								70		
Malaysia (E)										
Pakistan (E)										
Philippines (E)										
Singapore										
Taiwan (R.O.C.)			5	34	41	76	101	127	114	130
Thailand										
Other (E)										
Total Asia	**39**	**60**	**115**	**98**	**114**	**176**	**227**	**330**	**246**	**299**
Total Developing Cts.	**116**	**129**	**189**	**186**	**219**	**292**	**368**	**468**	**390**	**436**
Total Western World	**6,404**	**6,230**	**7,043**	**8,017**	**7,908**	**8,332**	**9,246**	**10,657**	**10,045**	**9,079**
Albania (E)										
Bulgaria										
Czechoslovakia	149	114	114	118	123	128	127	130		
German Dem. Rep.						60	60	60	60	36
Hungary	3	3	3	3	4	4	3	3	1	1
Poland						207	217	207	173	138
Romania										
U.S.S.R.	1,833	1,878	1,954	2,033	2,110	2,180	1,690	1,768	1,763	1,701
Total Eastern Europe	**1,985**	**1,996**	**2,071**	**2,155**	**2,237**	**2,579**	**2,097**	**2,168**	**1,997**	**1,876**
Cuba										
China										
D.P.R. Korea (E)										
Total C.P.E.s	**1,985**	**1,996**	**2,071**	**2,155**	**2,237**	**2,579**	**2,097**	**2,168**	**1,997**	**1,876**
World Total	**8,389**	**8,226**	**9,115**	**10,171**	**10,145**	**10,911**	**11,343**	**12,825**	**12,043**	**10,955**

E - estimate

EXPLANATORY NOTES

Table Nos.

Production

1-3 Crude Steel Production is defined as the total output of usable ingots, continuously cast semi-finished products, and liquid steel for castings.

Deliveries

6 The figures show the total deliveries of the domestic steel industry, to both home and export markets. Due to differences in national statistical systems, the various countries report different ranges of steel products. Consequently these delivery figures are not internationally comparable: for example a country which reported deliveries of tubes and wire would show correspondingly lower deliveries of the hot-rolled products which had been used in their manufacture.

Trade

7-9 Trade figures are based on a broad definition of steel industry products, including ingots and semi-finished products; hot rolled and cold finished products; tubes; single strand wire; wheels, tyres and axles; and unworked castings and forgings where reported. Trade within the European Community, and within the Council for Mutual Economic Assistance (CMEA, also known as COMECON), is included. The imports of many developing nations for the most recent years have been estimated from the destinations declared by steel exporters.

Consumption

10 Apparent consumption of crude steel was developed as Production + Imports-Exports. The production figures were taken from Table 2; exports and imports from Tables 7 and 8 were converted into crude steel equivalent by using a factor of $1.3/(1+0.175c)$, where c is the domestic proportion of crude steel which is continuously cast. This adjustment was made to avoid distortion of the export or import share relative to domestic production. For countries where imports predominate, average continuous casting shares of the major exporters were used. For some countries, marked (D) in the table, calculations made by national statistical authorities were used in preference to this standard methodology. Particularly in the case of Taiwan (ROC), a significant amount of steel products is obtained from the re-rolling of secondary material.

12 The finished steel figures, other than those marked (D), were calculated by multiplying crude steel production by $(1+0.175c)/1.3$, where c is the continuous cast share of domestic output, in order to estimate the finished product output of the domestic industry. Exports/imports taken from Tables 7 and 8 were then subtracted/added to reach apparent consumption. This methodology takes no account of the re-rolling of secondary material, inventory changes within the industry, or yield differences. For the countries marked (D), calculations made by the national statistical authorities replaced this standard methodology. Such calculations are based on deliveries rather than production, and incorporate methods to avoid the double counting of deliveries or imports which are further worked within the steel industry.

Sources

In addition to information supplied by IISI's own respondents from within its membership, data has been obtained from the publications of the United Kingdom Iron and Steel Statistics Bureau (UK ISSB), the Instituto Latinoamericano del Fierro y el Acero (ILAFA), the Instituto Brasileiro de Siderurgia (IBS), the South East Asian Iron and Steel Institute (SEAISI), the International Monetary Fund (IMF)), the Organisation for Economic Co-operation and Development (OECD), the Association of Iron Ore Exporting Countries (APEF), the United Nations Conference on Trade and Development (UNCTAD), and the United Nations Economic Commission for Europe. The Secretariat would also like to express its gratitude to the national statistical offices of China, Czechoslovakia, Hungary, Poland, and the U.S.S.R. for their invaluable assistance.

International Iron and Steel Institute

Founded in 1967, the International Iron and Steel Institute (IISI) is a non-profit research organisation whose members are steel companies, national steel federations and steel research associations in 44 countries. Together these 44 countries produced 98.6 percent of 1990 world crude steel production excluding that of the USSR and other members of the Council for Mutual Economic Assistance (CMEA), the People's Republic of China and DPR Korea.
IISI undertakes research into economic, financial, technological, environmental and promotional aspects of world steel and into various raw materials and industrial relations matters on behalf of its members. It also collects, evaluates and disseminates world steel statistics.

International Iron and Steel Institute
Association internationale à but scientifique
Rue Col. Bourg, 120
B-1140 Brussels, Belgium