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INTERNATIONAL IRON AND STEEL INSTITUTE

A HANDBOOK OF WORLD STEEL STATISTICS

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COMMITTEE ON STATISTICS

BRUSSELS 1978

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FOREWORD

This Handbook brings together a cross section of basic steel industry statistics which are published or exchanged by the International Iron and Steel Institute; it is hoped that their compilation into one volume will be useful to IISI members. The information presented is as up-to-date as possible, the contents having been finalised in September 1978; data for later periods, and revisions, will appear in due course in regular IISI statistical publications which are listed, together with other sources, on Page 61. Thanks are due to members of the Committee on Statistics, and to the Institute's network of Statistical Respondents, whose generous cooperation makes possible the production of IISI statistical reports.

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DEFINITIONS AND EXPLANATORY NOTES

The Narrow definition of the steel industry covers the manufacture of crude steel, semi-products, hot rolled finished products, continuously cast products, cold-rolled sheets and coated sheets.

The Broad definition of the steel industry covers, in addition to the above products, steel tubes, cold-drawn rolled and shaped products, foundry products and forged, stamped, pressed and deep-drawn products. In general IISI statistics are based on the broad definition of the steel industry; statistics on the different definitions are not comparable due to the classification of steel products destined for further transformation.

Crude Steel is defined as the total of useable ingots, continuously cast semi-products, and liquid steel for castings.

Crude Steel Equivalent is used to calculate consumption. Production - usually the major component in a nation's steel consumption - expressed in crude steel terms is raised by the steel imported (or lowered by the steel exported) to arrive at a domestic apparent consumption figure. However imports and exports are measured in finished product weight, and must therefore be converted back into their crude steel equivalent. This has been done using standard United Nations conversion coefficients:

Finished product	Crude Steel conversion factor
Ingots	1.000
Semis	1.172
Heavy and light sections	1.271
Heavy and medium plates	1.420
Sheets	1.359
Hoop and strip	1.228
Tinplate	1.359
Railway track material	1.300
Wire rods	1.271
Wire	1.319
Tubes	1.470
Wheels, tyres and axles	1.400

In some cases an overall average figure of 1.3 has been applied.

Conversion rates actually achieved vary considerably, both over time and from place to place. Current Japanese practice for example, is more efficient, so that less crude steel is required to produce Japan's exports of finished products than the UN coefficients would suggest. Consequently UN coefficients overstate the crude steel equivalent of Japan's exports, and understate her domestic apparent steel consumption, by several million tons annually.

The production and consumption figures for the United Kingdom are originally published on the basis of 52- or 53- week years; these data have been converted by the IISI Secretariat onto a calendar year basis.

The standard unit of measurement employed in this Handbook is the metric ton (1000 Kg or 2204 lbs). Due to rounding, some columns or rows of figures may not add exactly to the stated totals. The following symbols are employed:

E = estimate
P = provisional
- = nil or negligible
.. = not available

Explanatory notes to particular tables are given on Page 61.

TABLE 1

WORLD CRUDE STEEL PRODUCTION

Million metric tons

Year	Production	Year	Production
1900	28.3	1940	140.6
1901	31.0	1941	153.8
1902	34.5	1942	151.4
1903	36.1	1943	159.6
1904	36.3	1944	151.2
1905	44.9	1945	113.1
1906	51.2	1946	111.6
1907	53.0	1947	136.0
1908	41.4	1948	155.3
1909	54.2	1949	160.0
1910	60.3	1950	191.6
1911	60.5	1951	211.1
1912	72.8	1952	211.6
1913	76.4	1953	234.8
1914	60.4	1954	223.8
1915	66.6	1955	270.0
1916	78.2	1956	283.5
1917	82.0	1957	292.5
1918	77.2	1958	274.3
1919	58.5	1959	305.7
1920	72.5	1960	346.4
1921	45.2	1961	351.3
1922	68.8	1962	360.1
1923	78.3	1963	387.1
1924	78.5	1964	433.4
1925	90.4	1965	454.0
1926	93.4	1966	472.7
1927	101.8	1967	497.2
1928	110.0	1968	530.0
1929	120.8	1969	574.7
1930	95.1	1970	595.4
1931	69.6	1971	582.6
1932	50.7	1972	630.3
1933	68.0	1973	698.4
1934	82.4	1974	708.9
1935	99.5	1975	645.6
1936	124.3	1976	676.7
1937	135.7	1977	672.3
1938	110.0		
1939	137.1		

TABLE 2

CRUDE STEEL PRODUCTION BY COUNTRY, 1967 - 1977

(Thousand Metric Tons)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
WESTERN EUROPE											
Belgium	9,712	11,568	12,832	12,607	12,445	14,532	15,522	16,227	11,582	12,145	11,255
Denmark	401	457	482	473	471	498	453	536	557	722	685
France	19,658	20,403	22,510	23,774	22,843	24,054	25,270	27,021	21,531	23,227	22,104
F.R. of Germany	36,744	41,159	45,316	45,041	40,313	43,705	49,521	53,232	40,412	42,413	38,984
Ireland	54	68	81	80	80	77	116	110	81	58	47
Italy	15,890	16,964	16,428	17,277	17,452	19,813	20,995	23,804	21,865	23,455	23,335
Luxemburg	4,481	4,834	5,521	5,462	5,241	5,457	5,924	6,447	4,624	4,565	4,329
Netherlands	3,401	3,706	4,712	5,042	5,083	5,585	5,523	5,837	4,817	5,178	4,922
United Kingdom (1)	24,324	26,399	26,896	27,833	24,219	25,431	26,667	22,384	19,773	22,396	20,467
Sub Total	114,665	125,558	134,778	137,589	128,147	139,152	150,091	155,598	125,242	134,159	126,128
Austria	3,023	3,467	3,926	4,079	3,960	4,069	4,238	4,699	4,069	4,476	4,093
Finland	411	729	978	1,169	1,025	1,456	1,615	1,656	1,616	1,649	2,160
Greece	210	210	450	450	475	675	1,087	926	900	1,110	E 1,000
Norway	790	824	854	870	883	916	963	913	891	886	704
Portugal	315	313	400	385	412	425	501	399	443	461	532
Spain	4,512	5,083	5,982	7,394	8,025	9,526	10,800	11,502	11,102	10,982	11,169
Sweden	4,768	5,095	5,322	5,497	5,271	5,257	5,663	5,988	5,611	5,139	3,968
Switzerland	445	453	500	524	532	543	584	592	420	545	656
Turkey	996	1,109	1,170	1,312	1,235	1,557	1,354	1,590	1,703	1,972	1,865
Yugoslavia	1,832	1,996	2,220	2,228	2,453	2,588	2,676	2,836	2,916	2,751	3,182
Total Western Europe	131,967	144,837	156,580	161,497	152,418	166,164	179,572	186,699	154,913	164,130	155,457
EASTERN EUROPE											
Bulgaria	1,239	1,461	1,515	1,800	1,948	2,121	2,246	2,188	2,265	2,460	2,589
Czechoslovakia	10,003	10,555	10,802	11,480	12,069	12,728	13,158	13,640	14,324	14,693	15,054
German Dem. Rep.	4,647	4,695	5,140	5,425	5,745	6,065	5,855	6,165	6,480	6,740	6,850
Hungary	2,739	2,903	3,032	3,110	3,110	3,273	3,332	3,468	3,673	3,652	3,723
Poland	10,412	11,007	11,251	11,750	12,688	13,424	14,057	14,556	15,007	15,640	17,841
Romania	4,088	4,323	5,540	6,517	6,803	7,401	8,161	8,840	9,549	10,970	11,457
Total Eastern Europe	33,128	34,944	37,280	40,082	42,363	45,012	46,809	48,857	51,298	54,155	57,514
USSR	102,235	106,532	110,315	115,886	120,637	125,589	131,481	136,200	141,325	144,805	146,555
NORTH AMERICA											
Canada	8,801	10,207	9,351	11,200	11,040	11,863	13,388	13,623	13,025	13,136	13,631
United States (2)	115,406	119,260	128,151	119,307	109,264	120,874	136,802	132,195	105,816	116,120	113,170
Total North America	124,207	129,467	137,502	130,507	120,304	132,737	150,190	145,818	118,841	129,256	126,801
LATIN AMERICA											
Argentina	1,326	1,559	1,690	1,823	1,915	2,151	2,205	2,353	2,208	2,410	2,684
Brazil	3,665	4,452	4,925	5,390	5,997	6,518	7,150	7,515	8,387	9,253	11,253
Central America	3	3	3	8	9	6	10	10	10	13	E 11
Chile	631	568	641	592	654	631	549	634	508	503	563
Colombia	258	259	272	310	325	373	362	311	390	370	326
Cuba	102	120	119	140	E 160	E 185	220	E 240	300	250	E 300
Mexico	3,023	3,256	3,467	3,881	3,821	4,431	4,760	5,116	5,282	5,288	5,553
Peru	80	106	194	94	179	181	356	481	431	349	414
Uruguay	14	8	14	16	15	13	12	14	16	16	17
Venezuela	690	860	840	927	924	1,128	1,063	1,041	1,063	936	803
Total Latin America	9,792	11,191	12,165	13,181	13,999	15,617	16,687	17,715	18,595	19,388	21,924

(1) = Calculated on a calendar year basis. (2) = Excludes steel for castings produced by companies not producing steel ingots (about 2,500,000 tons in 1973).

E = Estimate.

CRUDE STEEL PRODUCTION BY COUNTRY, 1967 - 1977 (Continued)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
AFRICA											
Algeria	23	28	30	31	28	98	195	173	221	356	400
Rhodesia	134	150	E 300	374	439	462	E 500	E 500	E 500	E 500	E 500
Tunisia	46	82	100	100	90	133	140	132	130	102	157
South Africa	3,702	4,051	4,625	4,757	4,881	5,337	5,722	5,839	6,831	7,106	7,306
Other	50	50	50	50	50	50	50	50	65	70	60
Total Africa	3,955	4,361	5,105	5,312	5,488	6,080	6,607	6,694	E 7,747	E 8,134	E 8,423
MIDDLE EAST											
Egypt	E 400	E 450	E 450	E 450	E 450	E 450	E 525	E 500	E 500	E 500	E 600
Iran	..	..	..	..	..	..	240	567	551	E 600	E 650
Israel	60	60	60	60	65	65	65	75	60	70	72
Other	32	28	26	29	42	72	E 80	E 85	E 70	E 65	E 51
Total Middle East	492	538	536	539	557	587	910	1,227	1,181	1,235	1,373
ASIA											
China	E14,000	E15,000	E16,000	E18,000	E21,000	E23,000	E26,000	E26,000	E26,000	E21,000	E23,400
Hong Kong	E 85	E 90	E 95	100	E 105	E 110	115	E 120	E 120	E 120	E 120
India	6,331	6,448	6,557	6,276	6,101	6,856	6,889	7,068	7,991	9,364	10,009
Indonesia	-	-	-	10	10	30	50	80	100	139	E 100
Japan	62,154	66,893	82,166	93,322	88,557	96,900	119,322	117,131	102,313	107,399	102,405
Malaysia	60	70	74	122	160	187	180	182	183	190	E 250
Dem. Rep. of Korea	E 1,450	E 1,750	E 2,000	E 2,180	E 2,360	E 2,500	E 2,900	E 3,200	E 2,900	E 3,000	E 3,150
Philippines	85	92	118	131	159	203	254	279	311	393	300
Singapore	60	104	108	107	123	198	211	194	196	203	E 200
Rep.of Korea	300	372	373	481	472	586	1,157	1,947	1,994	E 3,515	4,243
Taiwan (ROC)	443	474	480	350	470	540	535	901	1,010	1,628	1,770
Thailand	35	118	121	174	190	283	324	326	251	281	E 300
Other	23	23	25	190	190	190	300	E 300	E 300	E 300	E 350
Total Asia	85,026	91,434	108,117	121,443	119,897	131,583	158,237	157,728	143,669	147,532	146,597
OCEANIA											
Australia	6,365	6,596	7,032	6,839	6,753	6,751	7,699	7,813	7,869	7,794	7,334
New Zealand	65	87	102	157	144	157	190	194	185	222	218
Total Oceania	6,430	6,683	7,134	6,996	6,897	6,908	7,889	8,007	8,054	8,016	7,552
SUMMARY.											
Western Europe	131,967	144,837	156,580	161,497	152,418	166,164	179,572	186,699	154,912	164,130	155,457
Eastern Europe	33,128	34,944	37,280	40,082	42,363	45,012	46,809	48,857	51,298	54,155	57,514
USSR	102,235	106,532	110,315	115,886	120,637	125,589	131,481	136,200	141,325	144,805	146,655
North America	124,207	129,467	137,502	130,507	120,304	132,737	150,190	145,818	118,841	129,256	126,801
Latin America	9,792	11,191	12,165	13,181	13,999	15,617	16,687	17,715	18,595	19,388	21,924
Africa	3,955	4,361	5,105	5,312	5,488	6,080	6,607	6,694	7,747	8,134	8,423
Middle East	492	538	536	539	557	587	910	1,227	1,181	1,235	1,373
Asia	85,026	91,434	108,117	121,443	119,897	131,583	158,237	157,728	143,669	147,532	146,597
Oceania	6,430	6,683	7,134	6,996	6,897	6,908	7,889	8,007	8,054	8,016	7,552
WORLD TOTAL	497,232	529,987	574,734	595,443	582,560	630,277	698,382	708,945	645,623	676,651	672,296
WESTERN WORLD TOTAL (3)	346,419	371,761	409,139	419,295	396,200	434,176	491,192	494,688	424,100	453,691	441,577

E = Estimate.

(3) = Western World means the world excluding the USSR and Eastern Europe, China and the Democratic People's Republic of Korea.

TABLE 3

MONTHLY CRUDE STEEL PRODUCTION IN 29 REPORTING IISI COUNTRIES, 1968 - 1977

Million metric tons

Country or Region	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
EEC (a)										
January	10.6	11.8	12.2	11.4	10.7	12.3	13.3	13.0	10.3	10.7
February	10.0	10.7	11.2	10.7	10.5	11.3	12.4	11.5	10.5	10.2
March	10.7	11.8	11.9	11.6	11.9	12.9	13.6	11.8	11.9	11.6
April	10.2	11.7	12.7	10.8	11.5	12.2	13.0	11.5	11.1	10.1
May	10.5	11.4	11.6	10.8	11.9	12.9	13.5	9.8	12.1	11.1
June	9.5	11.4	11.6	10.7	12.0	12.4	12.5	10.5	11.3	11.2
July	10.3	10.8	11.5	10.4	11.1	12.3	12.8	9.0	11.3	10.4
August	9.7	10.1	10.5	10.0	10.9	12.0	12.0	8.2	10.5	9.3
September	10.6	11.1	12.0	11.0	12.1	12.4	13.2	10.1	12.0	11.0
October	11.9	11.9	11.5	10.9	12.7	13.4	13.8	10.4	11.9	10.7
November	10.9	11.1	10.7	10.3	12.2	13.4	13.1	10.2	11.2	10.4
December	10.4	11.0	10.7	9.5	11.5	12.5	12.3	9.2	9.9	9.4
United States										
January	10.9	10.1	10.2	10.2	9.1	11.2	11.5	10.5	8.9	8.2
February	10.7	9.9	9.5	9.9	9.1	10.5	10.5	9.9	9.0	8.0
March	11.5	11.3	10.8	11.5	10.5	11.9	11.6	10.9	10.2	10.0
April	11.3	11.0	10.3	11.4	10.5	11.6	11.3	9.7	10.4	10.1
May	11.5	11.2	10.5	11.7	10.8	12.0	11.6	8.9	11.0	11.1
June	10.8	10.7	10.3	10.4	10.0	11.3	11.1	7.9	10.5	10.3
July	10.4	10.3	9.8	9.0	9.4	11.1	11.0	7.6	10.3	9.4
August	8.1	10.4	9.3	5.2	9.8	11.0	10.7	7.8	10.1	9.4
September	7.3	10.5	9.7	7.0	9.9	11.1	10.7	8.4	9.5	9.1
October	8.2	11.2	9.7	7.3	10.6	11.7	11.4	8.4	9.3	9.5
November	8.7	10.8	9.1	7.3	10.3	11.4	10.5	7.9	8.6	8.8
December	9.5	10.7	9.5	7.9	10.8	11.5	9.9	8.0	8.4	9.1
Japan										
January	5.4	6.1	7.8	7.5	7.4	9.5	10.0	8.9	8.0	8.9
February	5.2	5.8	7.2	7.1	7.2	8.8	8.9	8.1	7.8	8.2
March	5.5	6.5	8.1	7.6	7.6	9.8	9.9	8.8	9.2	9.0
April	5.4	6.5	7.7	7.1	7.5	9.7	9.8	8.4	8.6	8.6
May	5.5	6.8	7.9	7.3	7.9	10.1	10.1	8.9	8.5	8.7
June	5.5	6.7	7.9	7.0	7.7	9.9	9.9	8.8	8.5	8.5
July	5.6	6.8	8.0	7.3	8.3	10.1	10.1	8.9	9.4	8.7
August	5.6	7.0	7.8	7.4	8.2	10.0	10.0	8.8	9.4	8.5
September	5.7	7.2	7.9	7.6	8.1	10.2	9.7	8.6	9.1	8.4
October	6.0	7.6	8.1	7.6	8.8	10.7	10.0	8.5	9.8	8.5
November	5.7	7.4	7.4	7.4	8.8	10.3	9.3	7.7	9.5	8.2
December	5.8	7.8	7.5	7.5	9.6	10.3	9.4	7.9	9.4	8.3
Others (b)										
January	4.5	5.1	5.4	5.6	5.7	6.6	7.0	7.0	7.2	7.9
February	4.6	4.7	5.1	5.0	5.6	6.2	6.6	6.8	7.0	7.3
March	4.9	5.2	5.5	5.6	6.2	7.8	7.2	7.5	7.6	8.1
April	4.6	5.2	5.3	5.4	5.9	6.4	6.6	7.3	7.4	7.5
May	4.9	5.1	5.5	5.7	6.0	6.7	6.8	7.2	7.8	7.6
June	4.4	5.1	5.4	5.7	5.8	6.3	6.6	7.0	7.5	7.6
July	4.5	5.0	5.1	5.2	5.6	6.2	6.7	6.6	7.4	7.2
August	4.7	4.5	5.3	5.5	6.0	6.6	7.0	6.8	7.5	7.6
September	4.7	4.5	5.5	5.5	6.2	6.4	7.0	7.1	7.5	7.8
October	4.9	5.0	5.6	5.8	6.3	6.7	7.6	7.0	7.6	8.2
November	5.0	5.3	5.5	5.7	6.4	6.5	7.3	7.2	7.5	8.0
December	5.0	5.3	5.6	5.6	6.4	6.6	7.2	7.2	7.7	7.9
Total										
January	31.4	33.1	35.6	34.7	32.9	39.6	41.8	39.4	34.4	35.7
February	30.5	31.1	33.0	32.7	32.4	36.8	38.4	36.3	34.3	33.7
March	32.6	34.8	36.3	36.3	36.1	41.4	42.3	39.0	38.9	38.7
April	31.5	34.4	36.0	34.7	35.4	39.9	40.7	36.9	37.5	36.3
May	32.4	34.5	35.5	35.5	36.6	41.7	42.0	34.8	39.4	38.5
June	30.2	33.9	35.2	33.8	35.5	39.9	40.1	34.2	37.8	37.6
July	30.8	32.9	34.4	31.9	34.4	39.7	40.6	32.1	38.4	35.7
August	28.1	32.0	33.4	28.1	34.9	39.6	39.7	31.6	37.5	34.8
September	28.3	33.3	35.1	31.1	36.3	40.1	40.6	34.2	38.1	36.3
October	31.0	35.7	34.9	31.6	38.4	42.5	42.7	34.3	38.6	36.9
November	30.3	34.6	32.7	30.7	37.7	41.6	40.2	33.0	36.8	35.4
December	30.7	34.8	33.3	30.5	38.3	40.9	38.8	32.2	35.4	34.7

(a) = Excludes Ireland.
(b) = Austria, Finland, Norway, Portugal, Spain, Sweden, Turkey, Yugoslavia, Canada, Argentina, Brazil, Chile, Mexico, Venezuela, Australia, India, Republic of Korea, South Africa and Taiwan (ROC).

TABLE 4

CONTINUOUS CASTING OUTPUT AND SHARE OF CRUDE STEEL OUTPUT BY COUNTRY, 1971 - 1977

COUNTRY	1971		1972		1973		1974		1975		1976		1977 (P)	
	(1) '000 t	(2) %	(1) '000 t	(2) %	(1) '000 t	(2) %	(1) '000 t	(2) %	(1) '000 t	(2) %	(1) '000 t	(2) %	(1) '000 t	(2) %
Belgium	-	-	-	-	-	-	208	1.3	480	4.1	693	5.7	1,656	14.7
Denmark	-	-	-	-	-	-	-	-	73	13.1	312	43.2	347	50.7
F. R. of Germany	4,110	10.2	6,088	13.9	8,057	16.3	10,337	19.4	9,813	24.3	12,014	28.3	13,272	34.0
France	434	1.9	818	3.4	1,845	7.3	2,756	10.2	2,771	12.9	4,212	18.0	5,209	23.6
Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Italy	1,166	6.7	2,524	12.7	3,375	18.1	5,165	21.7	5,904	27.0	7,559	32.2	8,984	38.5
Luxemburg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom (calendar)	387	1.6	525	2.1	813	3.0	1,129	5.0	1,676	8.5	2,177	9.7	2,561	12.5
Total EEC (9)	6,097	4.8	9,955	7.2	14,090	9.4	19,595	12.6	20,717	16.5	26,967	20.1	32,029	25.4
Austria	360	9.1	419	10.3	505	11.9	766	16.3	866	21.3	1,244	27.8	1,532	37.4
Finland	733	71.5	1,076	73.9	1,256	77.8	1,290	77.9	1,233	76.3	1,255	76.1	E 1,810	83.8
Norway	8	0.9	29	3.2	120	12.5	143	15.7	140	15.7	E 150	E 16.9	E 120	17.0
Portugal	16	3.9	18	4.2	E 28	E 5.5	30	7.5	35	7.9	69	15.0	183	34.4
Spain	1,139	14.2	1,481	15.5	2,038	18.9	2,218	19.3	2,333	21.0	2,493	22.7	2,866	25.8
Sweden	770	14.6	841	16.0	889	15.7	1,156	19.3	1,390	24.8	1,451	28.2	1,214	30.6
Yugoslavia	-	-	-	-	-	-	-	-	330	11.3	398	14.5	823	25.9
United States	5,272	4.8	6,973	5.8	9,270	6.8	10,722	8.1	9,653	9.1	12,246	10.5	E 13,350	E 11.8
Canada	1,264	11.5	1,393	11.7	1,551	11.6	1,873	13.8	1,735	13.3	1,582	12.0	1,992	14.7
Argentina	..	..	..	..	..	..	574	26.1	565	25.6	665	27.4	E 620	E 23.1
Brazil	47	0.8	144	2.2	228	3.2	379	5.1	477	5.7	1,119	12.1	1,957	17.4
Chile	10	1.5	8	1.3	7	1.3	9	1.4	7	1.4	11	2.2	11	2.0
Mexico	454	11.9	569	12.8	576	12.1	650	12.7	695	13.2	682	12.9	1,615	29.1
Australia	199	3.0	-	-	133	1.7	223	2.9	47	0.6	-	-	-	-
Japan	9,958	11.2	16,462	17.0	24,716	20.7	29,411	25.1	31,814	31.1	37,629	35.0	41,807	40.8
Republic of Korea	..	..	..	..	..	..	..	..	393	19.7	770	21.9	1,360	32.0
South Africa	612	12.5	784	14.7	917	16.0	1,105	18.9	1,393	19.7	1,861	26.2	2,714	37.1
Total of Above Countries	26,939	7.0	40,152	9.6	56,324	11.9	70,144	14.7	73,856	18.2	90,592	20.7	106,020	25.0
Percentage of Western World Steel Output Covered		96.8		96.6		96.8		96.6		95.8		96.2		95.9
USSR	5,911	4.9	6,907	5.5	6,968	5.3	7,355	5.4	9,729	6.9	11,729	8.1	12,200	8.3
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Czechoslovakia	57	0.5	71	0.6	92	0.7	91	0.7	69	0.5	107	0.7	110	0.7
German Dem. Rep.	126	2.2	303	5.0	398	6.8	481	7.8	525	8.1	566	8.4	623	9.1
Hungary	-	-	-	-	59	1.8	422	12.2	775	21.1	1,019	27.9	1,054	28.3
Poland	292	2.3	309	2.3	309	2.2	320	2.2	332	2.2	297	1.9	446	2.5
Romania	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Eastern Europe	475	1.1	683	1.5	858	1.8	1,314	2.7	1,701	3.3	1,989	3.7	2,233	3.9
Total All Listed Countries	33,325	5.9	47,742	8.1	64,150	9.8	78,813	11.9	85,286	14.2	104,310	16.4	120,453	19.2
Percentage of World Steel Output Covered		93.8 %		93.6 %		93.6 %		93.5 %		92.7 %		93.9 %		93.4

TABLE 5

CRUDE STEEL PRODUCTION BY PROCESS

(thousand metric tons)

Countries	1974						1975					
	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total
Belgium	2,362	233	12,932	694	3	16,224	840	146	9,974	622	1	11,583
Denmark	-	514	-	21	-	535	-	462	-	97	-	559
France	5,188	2,927	15,793	3,103	5	27,016	3,280	1,538	13,658	3,046	7	21,529
F.R. of Germany	1,584	9,287	36,613	5,748	-	53,232	580	6,735	28,024	5,076	-	40,415
Italy	-	3,511	10,424	9,861	8	23,804	-	2,456	9,991	9,381	8	21,836
Luxemburg (Arbed only)	2,141	-	4,200	107	-	6,448	1,320	-	3,239	65	-	4,624
Netherlands	-	83	5,374	373	-	5,830	-	38	4,457	320	-	4,815
United Kingdom (1)	-	6,206	10,736	5,273	169	22,384	-	4,374	9,901	5,472	26	19,773
Total EEC	11,275	22,761	96,072	25,180	185	155,473	6,020	15,749	79,244	24,079	42	125,134
Austria	-	696	3,441	562	-	4,699	-	300	3,290	478	-	4,068
Finland	-	139	1,201	315	-	1,655	-	138	1,172	308	-	1,618
Norway	-	-	437	513	-	950	-	-	401	484	-	885
Portugal	-	-	E 308	E 90	-	398	-	-	327	91	-	418
Spain	-	1,372	6,020	4,093	-	11,485	-	1,120	6,070	3,908	-	11,098
Sweden	-	1,160	2,304	2,525	-	5,989	-	879	2,436	2,295	-	5,610
Switzerland	-	-	-	593	-	593	-	-	-	420	-	420
Turkey	-	643	816	6	-	1,464	-	625	832	7	-	1,464
Yugoslavia	-	1,763	320	753	-	2,836	-	1,788	321	807	-	2,916
Canada	-	3,425	7,354	2,844	-	13,623	-	3,079	7,305	2,641	-	13,025
United States	-	32,204	73,983	25,008	-	132,195	-	20,104	65,137	20,575	-	105,816
Argentina	73	960	551	775	-	2,360	59	954	432	756	-	2,201
Brazil	18	2,500	2,970	2,007	-	7,495	16	2,811	3,079	1,803	-	8,309
Chile	-	596	-	55	-	651	-	458	-	48	-	506
Mexico	-	E 2,324	E 634	E 2,144	-	5,102	-	E 2,324	E 713	E 2,245	-	5,282
Venezuela	-	898	-	145	-	1,043	-	921	-	128	-	1,049
Australia	-	2,134	5,409	241	-	7,784	-	2,182	5,503	177	-	7,862
India	-	5,002	1,023	1,044	-	7,069	-	5,689	1,318	984	-	7,991
Republic of Korea	-	E 60	E 1,067	E 820	-	1,947	-	E 60	E 1,107	E 827	-	1,994
Japan	-	1,553	94,687	20,891	-	117,131	-	1,103	84,428	16,782	-	102,313
South Africa	-	1,586	2,444	1,598	-	5,628	-	1,030	3,724	1,603	-	6,357
Total Above Countries	11,366	81,776	301,041	93,203	185	487,570	6,095	61,314	267,439	81,446	42	416,336
Bulgaria	-	511	1,265	412	-	2,188	-	516	1,267	482	-	2,265
German Dem. Rep.	197	4,411	252	1,285	20	6,165	34	4,499	570	1,352	25	6,480
Hungary	-	3,138	-	328	-	3,466	-	3,336	-	336	-	3,671
Poland	-	9,856	3,314	1,386	-	14,556	-	9,992	3,356	1,659	-	15,007
Rumania	-	4,681	3,203	956	-	8,840	-	4,768	3,568	1,213	-	9,549
USSR	1,079	90,717	30,868	13,542	-	136,206	1,075	91,481	34,798	13,971	-	141,325
Total all above Countries	12,642	195,090	339,943	111,112	205	658,991	7,204	175,906	310,998	100,459	67	594,633

(1) Calendar Year

CRUDE STEEL PRODUCTION BY PROCESS (Continued)

Countries	1976						1977					
	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total
Belgium	239	115	11,258	532	1	12,145	-	35	10,752	468	1	11,256
Denmark	-	387	-	335	-	722	-	319	-	367	-	686
F. R. of Germany	583	6,086	30,485	5,261	-	42,415	-	4,922	29,003	5,060	-	38,985
France	2,743	1,312	15,871	3,288	6	23,220	1,960	694	16,244	3,199	4	22,101
Italy	-	1,956	10,664	10,819	8	23,447	-	1,582	10,452	11,292	8	23,334
Luxemburg (Arbed only)	544	-	3,936	86	-	4,566	14	-	3,740	26	-	3,780
Netherlands	-	15	4,822	340	-	5,177		-	4,614	305	-	4,919
United Kingdom (1)	-	4,048	11,534	6,793	21	22,396		3,288	10,873	6,286	20	20,467
Total EEC	4,109	13,919	88,570	27,454	36	134,088	1,974	10,840	85,678	27,003	33	125,528
Austria	-	279	3,664	534	-	4,477		154	3,380	558		4,093
Finland	-	147	1,207	248	-	1,602	-	124	1,776	296	-	2,196
Norway	-	-	411	475	-	886		-	317	387		704
Portugal	-	-	346	118	16	480	-	-	367	164	16	547
Spain	-	523	5,956	4,110	-	10,989	-	955	5,908	4,264	-	11,127
Sweden	-	674	2,271	2,193	-	5,138	-	413	1,873	1,682	-	3,968
Switzerland	-	-	-	545	-	545	-	-	-	656	-	656
Turkey	-	610	847	515	-	1,972	-	E 504	E 801	E 560		1,865
Yugoslavia	-	1,651	269	831	-	2,751		1,587	724	871	-	3,182
Canada	-	2,971	7,946	2,219	-	13,136	-	2,880	7,953	2,799	-	13,631
United States	-	21,292	72,500	22,276	-	116,068	-	18,183	70,223	24,762	-	113,168
Argentina	43	1,085	470	812	-	2,410	90	1,276	384	1,036	-	2,686
Brazil	20	2,484	4,238	2,429	-	9,171	19	2,189	6,264	2,695	-	11,167
Chile	-	300	148	37	-	485	-	99	402	41	-	542
Mexico	-	2,156	706	2,416	-	5,279	-	1,622	1,501	2,427	-	5,550
Venezuela	-	752	-	184	-	936		676	-	132	-	808
Australia	-	2,069	5,551	158	-	7,778	-	1,743	5,443	142	-	7,328
India	-	6,116	2,004	1,244	-	9,364	-	6,398	2,219	1,392	-	10,009
Republic of Korea	-	50	2,140	1,321	-	3,511	-	98	2,531	1,616	-	4,245
Japan	-	487	86,891	20,021	-	107,399	-	378	82,429	19,598	-	102,405
South Africa	-	908	4,268	1,750	-	6,926	-	667	4,834	1,674	-	7,175
Total Above Countries	4,172	58,873	290,403	91,890	52	445,391	2,083	50,766	284,907	94,255	49	432,080
Bulgaria		491	1,413	556		2,460		487	1,481	621		2,589
German Dem. Rep.	31	4,636	624	1,423	26	6,740	31	4,706	642	1,445	26	6,850
Hungary		3,314		338		3,652		2,877		846		3,723
Poland		10,014	3,369	2,257		15,640		10,045	5,256	2,540		17,841
Rumania		E 4,930	E 4,530	E 1,510		10,970		E 5,150	E 4,732	E 1,574		11,457
USSR	1,000	91,800	37,700	14,300		144,800	900	91,900	39,400	14,500		146,700
Total all above Countries	5,203	174,058	338,039	112,274	78	629,553	3,014	165,951	336,419	115,781	75	621,240

(1) Calendar Year

TABLE 6

CRUDE STEEL PRODUCTION BY PROCESS

(percentages)

Countries	1974						1975					
	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total
Belgium	14.5	1.4	79.6	4.3	-	100.0	7.3	1.3	86.1	5.4	-	100.0
Denmark	-	96.1	-	3.9	-	100.0	-	82.6	-	17.4	-	100.0
France	19.2	10.8	58.5	11.5	-	100.0	15.2	7.1	63.4	14.1	-	100.0
F. R. of Germany	3.0	17.4	68.8	10.8	-	100.0	1.4	16.7	69.3	12.6	-	100.0
Italy	-	14.7	43.8	41.4	-	100.0	-	11.2	45.8	43.0	-	100.0
Luxemburg (Arbed only)	33.2	-	65.1	1.7	-	100.0	28.5	-	70.0	1.4	-	100.0
Netherlands	-	1.4	92.2	6.4	-	100.0	-	0.8	92.6	6.6	-	100.0
United Kingdom (1)	-	27.7	48.0	23.6	0.7	100.0	-	22.1	50.1	27.7	0.1	100.0
Total EEC	7.3	14.6	61.8	16.2	0.1	100.0	4.8	12.6	63.3	19.3	-	100.0
Austria	-	14.8	73.2	12.0	-	100.0	-	7.4	80.9	11.7	-	100.0
Finland	-	8.4	72.6	19.0	-	100.0	-	8.5	72.4	19.0	-	100.0
Norway	-	-	46.0	54.0	-	100.0	-	-	45.3	54.7	-	100.0
Portugal	-	-	E 77.4	E 22.6	-	100.0	-	-	78.2	21.8	-	100.0
Spain	-	11.9	52.4	35.6	-	100.0	-	10.1	54.7	35.2	-	100.0
Sweden	-	19.4	38.5	42.2	-	100.0	-	15.7	43.4	40.9	-	100.0
Switzerland	-	-	-	100.0	-	100.0	-	-	-	100.0	-	100.0
Turkey	-	43.9	55.7	0.4	-	100.0	-	42.7	56.8	0.5	-	100.0
Yugoslavia	-	62.2	11.3	26.5	-	100.0	-	61.3	11.0	27.7	-	100.0
Canada	-	25.1	54.0	20.9	-	100.0	-	23.6	56.1	20.3	-	100.0
United States	-	24.4	56.0	19.7	-	100.0	-	19.0	61.6	19.4	-	100.0
Argentina	3.1	40.7	23.3	32.9	-	100.0	2.7	42.3	19.6	34.3	-	100.0
Brazil	0.2	33.4	39.6	26.8	-	100.0	0.2	33.8	44.3	21.7	-	100.0
Chile	-	91.6	-	8.4	-	100.0	-	90.5	-	9.5	-	100.0
Mexico	-	E 45.6	E 12.4	E 42.0	-	100.0	-	E 44.0	E 13.5	E 42.5	-	100.0
Venezuela	-	86.1	-	13.9	-	100.0	-	87.8	-	12.2	-	100.0
Australia	-	27.4	69.5	3.1	-	100.0	-	27.7	70.0	2.3	-	100.0
India	-	70.8	14.5	14.8	-	100.0	-	71.2	16.5	12.3	-	100.0
Republic of Korea	-	3.1	54.8	42.1	-	100.0	-	E 3.0	E 55.5	E 35.8	-	100.0
Japan	-	1.3	80.8	17.8	-	100.0	-	1.1	82.5	16.4	-	100.0
South Africa	-	28.2	43.4	28.4	-	100.0	-	16.2	58.6	25.2	-	100.0
Total Above Countries	2.3	16.8	61.7	19.1	-	100.0	1.5	14.7	64.2	19.6	-	100.0
Bulgaria	-	23.4	57.8	18.8	-	100.0	-	22.8	55.9	21.3	-	100.0
German Dem. Rep.	3.2	71.5	4.1	20.8	0.3	100.0	0.5	69.4	8.8	20.9	0.4	100.0
Hungary	-	90.5	-	9.5	-	100.0	-	90.9	-	9.1	-	100.0
Poland	-	67.7	22.8	9.5	-	100.0	-	66.6	22.4	11.0	-	100.0
Rumania	-	52.9	36.2	10.8	-	100.0	-	49.9	37.4	12.7	-	100.0
USSR	0.8	66.6	22.7	9.9	-	100.0	0.8	64.7	24.6	9.9	-	100.0
Total all above countries	1.9	29.6	51.6	16.9	-	100.0	1.2	29.6	52.3	16.9	-	100.0

(1) Calendar Year

CRUDE STEEL PRODUCTION BY PROCESS (Continued)

(percentages)

Countries	1975						1977					
	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total	Basic Bessemer Thomas	Open Hearth S. M.	Pure Oxygen	Electric	Other	Total
Belgium	2.0	0.9	92.7	4.4	-	100.0	-	0.3	95.5	4.2	-	100.0
Denmark	-	53.6	-	46.4	-	100.0	-	46.5	-	53.5	-	100.0
F.R. of Germany	1.4	14.3	71.9	12.4	-	100.0	-	12.6	74.4	13.0	-	100.0
France	11.8	5.7	68.4	14.2	-	100.0	8.9	3.1	73.5	14.5	-	100.0
Italy	-	8.3	45.5	46.1	-	100.0	-	6.8	44.8	48.4	-	100.0
Luxemburg (Arbed only)	11.9	-	86.2	1.9	-	100.0	0.4	-	98.9	0.7	-	100.0
Netherlands	-	0.3	93.1	6.6	-	100.0	-	-	93.8	6.2	-	100.0
United Kingdom (1)	-	18.1	51.5	30.3	0.1	100.0	-	16.1	53.1	30.7	0.1	100.0
Total EEC	3.1	10.4	66.1	20.5	-	100.0	1.6	8.6	68.3	21.5	-	100.0
Austria	-	6.2	81.8	11.9	-	100.0	-	3.8	82.6	13.6	-	100.0
Finland	-	9.2	75.3	15.5	-	100.0	-	5.6	80.9	13.5	-	100.0
Norway	-	-	46.4	53.6	-	100.0	-	-	45.0	55.0	-	100.0
Portugal	-	-	72.1	24.6	3.3	100.0	-	-	67.0	30.0	3.0	100.0
Spain	-	8.4	54.2	37.4	-	100.0	-	8.6	53.1	38.3	-	100.0
Sweden	-	13.1	44.2	42.7	-	100.0	-	10.4	47.2	42.4	-	100.0
Switzerland	-	-	-	100.0	-	100.0				100.0	-	100.0
Turkey	-	30.9	43.0	26.1	-	100.0	-	E27.0	E43.0	E30.0	-	100.0
Yugoslavia	-	60.0	9.8	30.2	-	100.0	-	49.9	22.7	27.4	-	100.0
Canada	-	22.6	60.5	16.9	-	100.0	-	21.1	58.3	20.6	-	100.0
United States	-	18.3	62.5	19.2	-	100.0	-	16.1	62.1	21.8	-	100.0
Argentina	1.8	45.0	19.5	33.7	-	100.0						
Brazil	0.2	27.1	46.2	26.5	-	100.0	0.2	19.6	56.1	24.1	-	100.0
Chile	-	61.9	30.5	7.6	-	100.0	-	18.2	74.2	7.6	-	100.0
Mexico	-	40.8	13.4	45.8	-	100.0	-	29.2	27.1	43.7	-	100.0
Venezuela	-	80.3	-	19.7	-	100.0	-	82.7	-	16.3	-	100.0
Australia	-	26.6	71.4	2.0	-	100.0	-	23.8	74.3	1.9	-	100.0
India	-	65.3	21.4	13.3	-	100.0	-	63.9	22.2	13.9	-	100.0
Republic of Korea	-	1.4	61.0	37.6	-	100.0	-	2.3	59.6	38.1	-	100.0
Japan	-	0.5	80.9	18.6	-	100.0	-	0.4	80.5	19.1	-	100.0
South Africa	-	13.1	61.6	25.3	-	100.0	-	9.3	67.4	23.3	-	100.0
Total Above Countries	0.9	13.2	65.2	20.6	-	100.0	0.5	11.8	65.9	21.8	-	100.0
Bularia		19.9	57.3	22.5		100.0		18.8	57.2	24.0		100.0
German Dem. Rep.	0.5	68.8	9.3	21.1	0.4	100.0	0.4	68.7	9.4	21.1	0.4	100.0
Hungary		90.7		9.3		100.0		77.3		22.7		100.0
Poland		64.0	21.5	14.4		100.0		56.3	29.5	14.2		100.0
Rumania		E45.0	E41.3	E13.7		100.0		45.0	41.3	13.7		100.0
USSR	0.7	63.4	26.0	9.9		100.0	0.6	62.6	26.9	9.9		100.0
Total all Above Countries	0.8	27.6	53.7	17.8	-	100.0	0.5	26.7	54.2	18.6	-	100.0

(1) Calendar Year

TABLE 7

DELIVERIES (HOME & EXPORT) OF STEEL PRODUCTS 1977

VARIOUS COUNTRIES

(Thousand Metric Tons of Products)

Group 1: Broad Definition of Steel Industry

I. CARBON STEEL GRADES	Australia	Brazil	Canada	Japan	South Africa	United Kingdom	United States	Venezuela (1975)
A. Solids for Seamless Tubes	5	-	-	-	24		-	
B. Ingots and Semi-Finished Material	18	327	338	-	538	314	1,059	
C. Railway Track Material	74	62	295	580	199	252	1,388	
D. Structurals and Bar Mill Products								
1. Heavy Structurals	272	)	468	5,849	562	1,714	3,494	54
2. Light Sections	)	) 446	116	3,765	147	522	901	75
3. Hot Rolled Bars other than	)	)	901	10,570	362	1,097	5,490	
Concrete Reinforcing Bars	) 771	)						
4. Concrete Reinforcing Bars	)	1,826	491	(D3)	440	939	3,785	309
5. Total D1 - D4	1,043	2,272	1,976	20,184	1,511	4,272	13,669	438
E. Wire Rods	856	211	588	5,396	502	1,253	1,576	41
F. Hot Rolled Strip	214	-	(H1)	(H1)	36	395	901	(D1 & D2)
G. Plates	422	1,114	947	12,160	614	2,036	5,315	76
H. Sheets								
1. Hot Rolled Sheets and Coils		1,172	2,184	10,367	753	198	12,370	91
2. Cold Rolled Sheets and Coils		1,265	1,590	12,479	486	1,580	15,554	93
3. Electrical Sheets		26	(H2)	1,040	-	239	79	-
4. Galvanised Sheets		127	760	5,699	423	347	5,129	-
5. Other Coated Sheets		29	(H2)	902	-	251	837	2
6. Total H1 - H5	1,291	2,619	4,534	30,487	1,662	2,614	33,969	186
I. Tinplate and Black Plate	368	494	(H2)	1,891	241	1,166	5,790	37
J. Forgings		60	n.a.	253	30	47	-	-
K. Wheels and Axles	..	-	n.a.	104		47	299	-
L. Steel Tubes and Fittings	160	174	837	8,012		1,133	5,519	93
M. Drawn Wire and Wire Products	(E)	752	476	(2,752)	(E)	-	2,131	24
N. Cold Rolled Strip	87	-	(H2)	(H2)	11	433	786	(H2)
O. Cold Drawn Bars	(D)	-	81	(440)		478	1,321	
P. Total All Reported Products	4,538	8,085	10,072	79,067	5,367	14,438	73,726	893
II. SPECIAL STEELS								
Q. Total All Products	41	(305)	n.a.	10,264	46	1,104	8,962	-
III. SUMMARY								
R. Total All Grades	4,579	8,085	n.a.	89,331	5,412	15,541	82,688	893

Notes: The figures are in some cases not strictly comparable, due to definitional and classification differences between countries. For details see "International Comparison of Steel Product Definitions", IISI, Brussels, 1976. Figures in brackets are included elsewhere and are therefore not added into the totals in order to avoid double counting. Letters in brackets indicate the lines in which unavailable data is included.

.. = not separately identified; included elsewhere

n.a. = not available

(1) including heavy bars and flats

See Appendix on Sources and Explanatory Notes for Broad and Narrow Definitions of the Steel Industry; figures given under the different definitions are not comparable with each other.

DELIVERIES (HOME & EXPORT) OF STEEL PRODUCTS 1977 (Continued)

VARIOUS COUNTRIES

(Thousand Metric Tons of Products)

Group 2: Narrow Definition of Steel Industry

Austria	Belgium/ Luxemburg	France	F.R. of Germany	Italy	Netherlands	Spain	I. CARBON STEEL GRADES
--	-	469	1,765	754		171	A. Solids for Seamless Tubes
122	562	329	821	256		34	B. Ingots and Semi-Finished Material
125	176	289	419	232		103	C. Railway Track Material
							D. Structurals and Bar Mill Products
54	2,069	1,073	2,104	630		1,283	1. Heavy Structurals
)	981 (	) 931	) 1,894	2,773 (		263	2. Light Sections
118)	(	)	)	(		1,160	3. Hot Rolled Bars other than Concrete Reinforcing Bars
277	749	935	1,239	4,535	292	1,281	4. Concrete Reinforcing Bars
449	3,800	2,903	5,237	7,938	292	3,986	5. Total D1 - D4
318	772	1,816	2,552	959	302	676	E. Wire Rods
163	754	1,117	2,052	704	171	244	F. Hot Rolled Strip
547	1,320	2,763	4,779	2,592	433	1,050	G. Plates
							H. Sheets
343	1,679	1,349	1,358	957	556	1,104	1. Hot Rolled Sheets and Coils
938	2,446	3,468	4,756	2,427	1,186	1,078	2. Cold Rolled Sheets and Coils
27	98	154	357	187		38	3. Electrical Sheets
93)	588	856	1,516	471		257	4. Galvanised Sheets
4)				67		16	5. Other Coated Sheets
1,407	4,813	5,827	7,987	4,109	1,742	2,494	6. Total H1 - H5
	379	1,109	961	370	464	298	I. Tinplate and Black Plate
						73	J. Forgings
						19	K. Wheels and Axles
							L. Steel Tubes and Fittings
							M. Drawn Wire and Wire Products
(77)							N. Cold Rolled Strip
							O. Cold Drawn Bars
3,132	12,574	16,622	26,573	17,914		9,147	P. Total All Reported Products
							II. SPECIAL STEELS
339	322	2,611	4,948	3,095		(1,324)	Q. Total All Products
							III. SUMMARY
3,471	12,896	19,233	31,521	21,009		9,147	R. Total All Grades

TABLE 8

WORLD STEEL TRADE AS PROPORTION OF WORLD STEEL PRODUCTION, 1950 TO 1977

million metric tons crude steel equivalent

	Exports	World steel production	Export (per cent)
1950	20.5	192.0	10.7
1951	20.3	208.8	9.7
1952	24.3	211.6	11.5
1953	24.1	233.3	10.3
1954	26.4	222.8	11.8
1955	34.0	270.5	12.6
1956	35.8	284.3	12.6
1957	40.0	293.5	13.6
1958	38.0	274.5	13.8
1959	42.1	306.3	13.7
1960	52.7	345.5	15.3
1961	52.3	354.3	14.8
1962	56.0	358.7	15.6
1963	60.0	384.7	15.6
1964	69.3	434.2	16.0
1965	78.5	457.0	17.2
1966	78.4	472.7	16.6
1967	85.6	497.2	17.2
1968	99.0	530.0	18.7
1969	109.2	574.7	19.0
1970	117.5	595.4	19.7
1971	125.5	582.6	21.5
1972	133.1	630.3	21.1
1973	147.4	698.4	21.1
1974	169.6	708.9	23.9
1975	147.7	645.6	22.9
1976	162.8	676.7	24.1
1977	165.2	672.3	24.6

TABLE 9

WORLD STEEL EXPORTS - TOTALS BY COUNTRY OF ORIGIN, 1968-1977

(Thousand Metric Tons of Products)

REGION OR COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
WESTERN EUROPE										
Belgium/Luxemburg	11,167	12,833	12,787	12,406	14,428	15,982	16,615	12,620	12,712	12,189
Denmark	255	237	252	252	262	266	310	284	357	473
F.R. of Germany	12,807	12,633	11,935	13,076	13,770	17,126	22,159	16,196	14,990	15,379
France	6,880	6,708	7,522	7,861	8,390	8,590	10,287	8,559	8,547	10,135
Ireland	18	18	17	15	45	68	68	33	24	32
Italy	2,465	1,894	1,767	3,145	3,800	3,488	4,785	6,301	6,051	6,740
Netherlands	2,592	3,190	3,110	3,780	4,441	4,803	5,232	4,007	4,423	4,102
United Kingdom	4,360	3,850	4,002	4,341	4,575	4,176	3,298	3,170	3,672	4,399
Total EEC	40,544	41,363	41,392	45,376	49,714	54,499	62,754	51,170	50,786	53,449
Austria	1,361	1,515	1,355	1,410	1,470	1,429	1,715	1,965	2,029	2,019
Finland	158	246	397	402	550	528	764	547	539	959
Greece	27	185	179	126	178	311	440	334	354	224
Norway	471	476	471	505	554	630	590	587	628	486
Portugal	62	61	41	35	36	34	23	26	71	28
Spain	126	167	267	918	1,425	1,712	806	1,569	2,443	2,678
Sweden	1,397	1,431	1,457	1,440	1,646	1,930	2,029	1,680	1,682	1,881
Switzerland	89	112	103	106	134	136	233	242	183	214
Turkey				3	12	E 20	28	15	24	E 25
Yugoslavia	257	271	303	239	328	737	660	334	472	285
Total	44,492	45,827	45,965	50,560	56,044	61,966	70,042	58,469	59,211	62,248
EASTERN EUROPE & USSR										
Bulgaria	587	592	654	826	1,105	889	810	793	1,114	1,049
Czechoslavakia	2,162	1,774	2,643	2,792	3,075	2,927	3,074	3,252	3,400	3,450
German Democratic Republic	493	341	396	690	1,325	1,513	1,855	1,539	1,512	1,678
Hungary	698	874	918	958	1,113	1,152	914	1,060	1,260	1,326
Poland	1,413	1,443	1,498	1,492	1,479	1,402	1,470	1,485	1,579	1,794
Romania	981	943	1,371	1,502	1,197	1,388	1,308	1,477	E1,500	E1,500
USSR	5,928	6,970	7,528	7,422	7,310	7,013	6,856	7,825	7,503	E7,500
Total	12,262	12,937	15,008	15,682	16,604	16,284	16,287	17,431	17,868	18,297
NORTH AMERICA										
Canada	1,301	1,007	1,555	1,502	1,483	1,537	1,771	1,299	1,816	2,142
United States	2,023	4,834	6,518	2,636	2,681	3,749	5,387	2,825	2,517	1,906
Total	3,324	5,841	8,073	4,138	4,164	5,286	7,158	4,124	4,333	4,048
LATIN AMERICA										
Argentina	253	201	253	296	364	625	386	54	364	283
Brazil	288	326	583	261	332	431	228	149	262	364
Chile	32	6	12	62	5	-	1	89	70	E 75
Colombia	-	-	3	3	5	31	22	5	5	E 5
Mexico	156	204	208	357	412	141	123	76	154	258
Venezuela	208	231	184	87	158	228	57	2	21	E 20
Others	-	-	1	1	-	1	6	21	1	-
Total	937	968	1,244	1,067	1,376	1,457	823	397	877	1,005
AFRICA & MIDDLE EAST										
South Africa	286	439	393	281	519	632	612	324	1,098	2,096
Total	286	439	393	281	519	632	612	324	1,098	2,096
EAST ASIA										
Hong Kong			63	22	40	127	94	27	E 40	E 40
India	899	853	686	335	201	141	186	739	1,509	E1,500
Japan	12,774	15,540	17,562	23,158	20,919	24,808	32,221	28,926	36,009	33,400
Malaysia	9	32	32	47	78	61	70	14	E 20	E 20
Philippines		50	99	67	4	2	1	2	E 5	E 5
Republic of Korea	-	8	80	122	428	808	1,185	931	1,354	1,246
Singapore	110	73	67	109	75	153	218	185	213	E 220
Taiwan (ROC)	94	174	345	346	551	255	197	249	283	E 425
Thailand	4	8	9	10	23	21	16	E 20	13	E 20
Total	13,890	16,738	18,943	24,216	22,319	26,376	34,188	30,693	39,446	36,876
OCEANIA										
Australia	953	1,228	753	538	1,278	1,314	1,277	2,142	2,361	2,483
New Zealand			17	25	46	45	39	E 40	E 45	E 45
Total	953	1,228	770	563	1,324	1,359	1,316	2,182	2,406	2,528
TOTAL (Countries Listed)	76,144	83,978	90,396	96,507	102,350	113,360	130,426	113,620	125,239	127,096

TABLE 10

WORLD STEEL IMPORTS - TOTALS BY IMPORTING COUNTRIES, 1968-1977

(Thousand Metric Tons of Products)

REGION OR COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
WESTERN EUROPE										
Belgium/Luxemburg	1,639	2,022	2,275	2,228	2,501	2,925	3,226	2,509	3,364	3,148
Denmark	1,174	1,527	1,541	1,369	1,555	1,667	1,644	1,220	1,517	1,320
F.R. of Germany	8,018	8,987	9,016	9,683	11,233	10,645	8,720	8,874	11,053	11,099
France	5,113	6,846	7,423	6,714	8,168	8,718	8,560	6,689	8,844	E8,195
Ireland	234	281	272	273	342	316	394	243	349	361
Italy	2,732	3,920	5,041	4,009	4,668	5,003	4,812	3,365	5,198	5,195
Netherlands	3,080	3,351	3,489	3,707	3,858	4,476	4,858	3,702	3,954	3,600
United Kingdom	2,166	2,270	2,267	2,055	2,684	2,812	3,850	3,774	4,139	3,773
Total EEC	24,156	29,204	31,324	30,038	35,009	36,562	36,064	30,376	38,418	36,691
Austria	395	359	470	457	478	676	681	498	654	813
Finland	613	713	910	689	737	768	884	710	652	447
Greece	515	592	536	582	690	905	1,003	666	715	916
Norway	879	1,047	1,223	1,107	1,158	1,326	1,705	1,397	1,260	1,144
Portugal	282	321	439	394	467	570	779	497	589	768
Spain	1,053	1,680	1,795	891	1,175	1,080	1,197	1,342	2,559	1,118
Sweden	1,282	1,695	1,704	1,605	1,904	2,128	2,280	2,242	2,285	1,736
Switzerland	1,436	1,834	2,013	1,824	2,114	2,061	1,779	1,062	1,301	1,422
Turkey	222	262	247	711	505	832	1,484	1,661	1,479	E1,700
Yugoslavia	721	895	1,202	1,575	1,352	1,446	1,763	2,291	1,579	1,961
Others	115	120	125	130	147	166	128	58	102	146
Total	31,669	38,722	42,048	40,003	45,736	48,520	49,747	42,800	51,593	48,862
EASTERN EUROPE & USSR										
Albania	D 37	D 64	D 54	D 66	D 64	D 89	D 96	D 88	D 86	E 90
Bulgaria	1,060	1,139	1,176	1,073	1,000	718	688	739	849	964
Czechoslovakia	647	584	572	743	680	553	545	570	710	516
D.R. of Germany	2,368	3,232	3,494	3,268	3,666	3,752	4,090	4,015	4,086	4,170
Hungary	917	871	907	1,024	1,118	1,100	1,152	1,161	1,108	1,333
Poland	990	1,336	1,487	1,351	1,875	2,783	3,709	3,806	3,715	2,414
Romania	1,149	1,231	1,355	1,456	1,396	1,493	1,511	1,853	D1,855	E1,850
USSR	2,130	2,696	2,933	3,200	3,840	4,900	7,300	6,832	7,776	E6,600
Total	9,298	11,153	11,988	12,181	13,639	15,388	19,091	19,064	20,185	17,937
NORTH AMERICA										
Canada	1,263	1,802	1,455	2,125	2,275	1,903	2,883	1,403	1,132	E1,400
United States	15,944	12,394	11,845	16,305	15,662	13,403	14,154	10,767	12,658	17,175
Total	17,207	14,196	13,300	18,430	17,937	15,306	17,037	12,170	13,790	18,575
OTHER AMERICA (1)										
Argentina	373	734	753	1,599	1,581	1,929	1,518	2,047	1,046	E1,200
Brazil	344	470	579	1,164	1,054	1,823	4,197	2,844	1,059	919
Chile	33	95	91	78	119	72	162	54	21	E 70
Colombia	167	228	262	363	244	223	344	233	241	E 330
Cuba	D 206	D 281	D 220	D 210	D 278	D 380	D 508	D 577	D 533	E 500
Mexico	170	185	186	156	193	335	529	576	467	505
Paraguay	24	18	14	19	19	29	23	19	22	E 25
Peru	148	161	174	206	237	184	192	290	145	E 175
Venezuela	440	520	543	575	645	838	1,129	1,046	799	E1,300
Others	432	501	531	755	720	846	1,066	701	950	E 950
Total	2,337	3,193	3,355	5,125	5,090	6,659	9,668	8,387	5,333	5,974

WORLD STEEL IMPORTS - TOTALS BY IMPORTING COUNTRIES, 1968-1977 (Continued)

(Thousand Metric Tons of Products)

REGION OR COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
AFRICA										
Algeria	D 377	D 496	170	D 496	D 514	D 611	D1,117	D 903	D 659	E1,275
Kenya	(3)	D(5)199	D 124	D 155	D 135	D 149	D 167	D 90	D 167	E 175
Morocco	D 188	D 232	D 246	D 223	D 218	D 298	D 334	D 381	D 559	E 650
Nigeria	D 262	D 303	D 469	D 392	D 419	D 515	D 650	D1,030	D 988	E1,350
South Africa	342	165	383	908	252	554	1,131	1,007	258	E 70
Tanzania (United Rep. of)	(3)	(5)	D 61	D 55	D 55	D 73	D 89	D 52	D 80	E 100
Tunisia	D 44	D 52	D 54	D 85	D 149	D 97	D 111	D 121	D 144	E 225
Zaire	(3)	(3)	D 131	D 122	D 104	D 108	D 151	D 75	D 41	E 65
Zambia	D 31	D 30	D 45	D 125	D 77	D 98	D 172	D 49	D 32	E 50
Others	D 870	839	D1,292	D 718	D 682	D 857	D 874	593	D1,415	D1,540
Total	D2,074	D2,316	D2,975	D3,279	D2,605	D3,360	D4,796	D4,301	E4,343	D5,500
MIDDLE EAST										
Egypt	E 140	D 189	165	243	346	D 283	D 492	D 842	D 645	E 500
Iran	D1,270	D1,234	D 947	1,558	D1,306	D1,924	D2,269	D3,993	D3,752	E3,088
Iraq	D 265	D 193	D 339	D 320	D 349	D 471	D1,425	D1,485	D 807	E 750
Israel	D 508	D 417	582	D 399	D 487	D 608	D 791	D 482	D 429	E 300
Kuwait	D 146	D 154	D 105	D 166	D 133	D 142	D 327	D 252	D 906	E 700
Lebanon	D 206	D 251	D 228	D 217	D 340	D 412	D 416	D 234	D 69	E 80
Libyan Arab Republic	D 390	D 327	D 193	D 228	D 331	D 531	D 615	D 593	D 601	E 500
Saudi Arabia	D 226	D 185	D 172	D 305	D 403	D 585	D 728	D1,005	D1,504	E1,450
Syrian Arab Republic	D 137	D 215	D 206	D 160	D 231	D 174	D 423	D 356	D 690	E 475
Others	D 251	D 267	D 313	D 151	D 519	D 484	D 594	D 712	D1,419	E 621
Total	D3,539	D3,432	D3,250	D3,747	D4,445	D5,614	D8,080	D9,954	D10,822	E8,464
FAR EAST										
China	D1,690	D1,808	D2,282	D3,037	D2,270	D3,652	D3,584	D3,902	D4,518	E5,000
Hong Kong	294	389	481	498	567	596	558	491	D 810	E 900
India	462	434	598	1,217	1,269	1,017	1,233	723	426	E 500
Indonesia	197	314	388	463	769	1,093	1,068	963	1,133	E1,150
Japan	132	140	117	51	103	213	231	109	159	222
Republic of Korea	D 414	D 573	600	D 791	D1,136	2,115	2,192	1,677	1,700	2,515
Korea D.P.R. (4)	D 15	D 19	D 37	D 9	D 27	D 112	D 179	D 35	D 22	E 25
Malaysia	336	272	366	398	473	718	859	D 421	D 496	E 500
Pakistan	D 669	D 507	D 522	D 507	D 280	D 277	D 335	D 405	D 368	E 550
Philippines	769	914	869	457	883	626	874	596	D 793	E1,000
Singapore	331	461	619	733	763	982	1,334	1,209	1,012	E1,025
Taiwan (ROC)	428	540	645	796	880	1,133	1,695	938	1,352	E1,450
Thailand	645	614	543	475	604	690	675	D 640	D 829	E1,100
Others	D 378	D 670	D 519	D 265	D 100	D 155	D 100	D 297	250	E 400
Total	D6,760	D7,655	D8,586	D9,697	E10,024	D13,379	D14,917	D12,405	D13,868	E16,337
OCEANIA										
Australia	346	460	490	1,522	2,122	755	1,484	925	1,400	E1,500
New Zealand	455	492	545	359	422	570	822	D 541	580	E 530
Total	801	952	1,035	1,881	2,544	1,325	2,306	1,466	1,980	2,030
Total Listed Countries	73,685	81,619	86,537	94,343	102,020	109,551	125,642	110,547	121,914	123,679
Unallocated (D)	2,459	2,359	3,859	2,164	2,330	3,809	4,784	3,073	3,325	3,419
Total Imports (D)	76,144	83,978	90,395	96,507	102,350	113,360	130,426	113,620	125,239	127,098

D = Derived from exports of other countries. E = Estimate. (1) = Latin American statistics exclude semi-finished steel.
(3) = Included in Others. (4) = Data are incomplete.

TABLE 11

WORLD STEEL EXPORTS BY REGION OF ORIGIN

(thousand metric tons of products)

Broad definition of the steel industry

Year	EEC (9)		Other Western Europe	Eastern Europe & USSR		North America	Japan	Other	TOTAL Exports	
	Intra EEC (9)	To third countries		Intra COMECON	To third countries				Including intra regional trade	Excluding intra regional trade
1950	2,697	8,400	296	494	643	2,791	546	77	15,944	12,753
1951	2,800	10,100	353	470	974	3,018	944	75	18,734	15,464
1952	3,277	8,009	399	924	782	3,751	1,574	83	18,799	14,598
1953	3,895	7,989	581	909	950	3,018	800	202	18,344	13,540
1954	4,744	8,723	701	1,050	1,048	2,580	1,109	294	20,249	14,455
1955	6,334	10,116	843	1,241	1,631	4,095	1,771	192	26,223	18,648
1956	6,117	11,688	1,267	1,500	1,923	3,111	1,184	132	26,922	19,305
1957	6,324	13,199	1,643	2,100	1,481	4,108	883	560	30,298	20,874
1958	6,134	13,281	1,517	2,300	1,794	2,910	1,548	464	29,948	21,514
1959	8,124	15,055	1,705	2,800	1,929	1,952	1,499	687	33,751	22,827
1960	11,110	15,277	2,515	3,200	2,219	3,507	2,242	825	40,895	26,585
1961	11,140	15,068	2,398	3,700	2,572	2,581	2,276	669	40,404	25,564
1962	11,930	13,582	2,500	4,800	2,621	2,592	3,871	1,180	43,076	26,346
1963	13,300	12,932	2,601	5,000	2,945	2,986	5,333	978	46,075	27,775
1964	15,660	14,183	2,870	5,600	3,352	4,186	6,539	1,096	53,486	32,226
1965	14,450	19,649	2,770	6,600	3,241	3,109	9,746	1,345	60,910	39,860
1966	15,990	17,007	3,008	5,900	4,706	2,421	9,550	1,723	60,305	38,415
1967	17,332	19,265	3,418	6,500	5,040	2,447	8,784	3,069	65,855	42,023
1968	19,479	21,065	3,948	6,700	5,562	3,324	12,774	3,292	76,144	49,965
1969	22,303	19,060	4,464	8,100	4,837	5,841	15,540	3,833	83,978	53,575
1970	22,443	18,949	4,573	8,400	6,603	8,073	17,562	3,788	90,396	59,553
1971	22,947	22,429	5,184	8,500	7,182	4,138	23,158	2,969	96,507	65,060
1972	26,213	23,501	6,333	8,600	8,004	4,164	20,919	4,616	102,350	67,537
1973	28,003	26,496	7,467	9,000	7,284	5,286	24,803	5,020	113,360	76,357
1974	29,723	33,031	7,288	10,300	5,987	7,158	32,221	4,718	130,426	90,403
1975	23,432	27,738	7,299	11,600	5,831	4,124	28,926	4,670	113,620	78,588
1976	27,538	23,248	8,425	11,750	6,118	4,333	36,009	7,875	125,239	85,951
1977	25,637	27,812	8,799	E 12,000	E 6,297	4,048	33,400	9,105	127,098	89,461

TABLE 12

WORLD STEEL EXPORTS BY REGION OF ORIGIN

percentages

A. Gross Trade, including intra EEC(9) and intra COMECON exchanges

Year	EEC (9)	Other Western Europe	Eastern Europe & USSR	North America	Japan	Other	Total
1950	69.6	1.9	7.1	17.5	3.4	0.5	100.0
1951	68.9	1.9	7.7	16.1	5.0	0.4	100.0
1952	60.0	2.1	9.1	20.1	8.4	0.4	100.0
1953	64.8	3.2	10.1	16.5	4.4	1.1	100.0
1954	66.5	3.5	10.4	12.8	5.5	1.5	100.0
1955	62.7	3.2	10.9	15.6	6.8	0.7	100.0
1956	66.1	4.7	12.7	11.6	4.4	0.5	100.0
1957	64.4	5.4	11.8	13.6	2.9	1.8	100.0
1958	64.8	5.1	13.7	9.7	5.2	1.5	100.0
1959	68.7	5.1	14.0	5.8	4.4	2.0	100.0
1960	64.5	6.2	13.2	8.6	5.5	2.0	100.0
1961	64.9	5.9	15.5	6.4	5.6	1.7	100.0
1962	59.2	5.8	17.2	6.0	9.0	2.7	100.0
1963	57.0	5.6	17.2	6.5	11.6	2.1	100.0
1964	55.8	5.4	16.7	7.8	12.2	2.1	100.0
1965	56.0	4.5	16.2	5.1	16.0	2.2	100.0
1966	54.7	5.0	17.6	4.0	15.8	2.9	100.0
1967	55.6	5.2	17.5	3.7	13.3	4.7	100.0
1968	53.2	5.2	16.1	4.4	16.8	4.3	100.0
1969	49.9	5.3	15.4	7.0	18.5	4.5	100.0
1970	45.8	5.1	16.6	8.9	19.4	4.2	100.0
1971	47.0	5.4	16.2	4.3	24.0	3.1	100.0
1972	48.6	6.2	16.2	4.1	20.4	4.5	100.0
1973	48.1	6.6	14.4	4.7	21.9	4.4	100.0
1974	48.1	5.8	12.5	5.5	24.7	3.6	100.0
1975	45.0	6.4	15.3	3.6	25.5	4.1	100.0
1976	40.5	6.7	14.3	3.5	28.8	6.2	100.0
1977	42.1	6.9	14.4	3.2	26.3	7.2	100.0

B. Net Trade, excluding intra EEC(9) and intra COMECON exchanges

Year	EEC (9)	Other Western Europe	Eastern Europe & USSR	North America	Japan	Other	Total
1950	65.9	2.3	5.0	21.9	4.3	0.6	100.0
1951	65.3	2.3	6.3	19.5	6.1	0.5	100.0
1952	54.9	2.7	5.4	25.7	10.8	0.6	100.0
1953	59.0	4.3	7.0	22.3	5.9	1.5	100.0
1954	60.4	4.8	7.3	17.9	7.7	2.0	100.0
1955	54.3	4.5	8.7	22.0	9.5	1.0	100.0
1956	60.5	6.6	10.0	16.1	6.1	0.7	100.0
1957	60.3	7.5	6.8	18.8	4.0	2.6	100.0
1958	61.7	7.1	8.3	13.5	7.2	2.2	100.0
1959	66.0	7.5	8.4	8.5	6.6	3.0	100.0
1960	57.5	9.5	8.3	13.2	8.4	3.1	100.0
1961	58.9	9.4	10.1	10.1	8.9	2.6	100.0
1962	51.6	9.5	9.9	9.8	14.7	4.5	100.0
1963	46.6	9.4	10.6	10.7	19.2	3.5	100.0
1964	44.0	8.9	10.4	13.0	20.3	3.4	100.0
1965	49.3	7.0	8.1	7.8	24.4	3.4	100.0
1966	44.3	7.8	12.2	6.3	24.9	4.5	100.0
1967	45.8	8.1	12.0	5.8	20.9	7.3	100.0
1968	42.2	7.9	11.1	6.6	25.6	6.6	100.0
1969	35.6	8.3	9.0	10.9	29.0	7.2	100.0
1970	31.8	7.7	11.1	13.6	29.5	6.4	100.0
1971	34.5	8.0	11.0	6.4	35.6	4.6	100.0
1972	34.8	9.4	11.9	6.2	31.0	6.8	100.0
1973	34.7	9.8	9.5	6.9	32.5	6.6	100.0
1974	36.5	8.1	6.6	7.9	35.6	5.2	100.0
1975	35.3	9.3	7.4	5.2	36.8	5.9	100.0
1976	27.0	9.8	7.1	5.0	41.9	9.1	100.0
1977	31.1	9.8	7.0	4.5	37.3	10.2	100.0

TABLE 13

WORLD STEEL EXPORTS BY REGION OF DESTINATION

(Thousand metric tons of products)

Year	EEC (9)		Other Western Europe	Eastern Europe & USSR		USA	Latin America	Africa and Middle East	Asia and Far East	Other (1)	TOTAL Including intra regional trade	IMPORTS Excluding intra regional trade
	Intra EEC (9)	From third countries		Intra COMECON	From third countries							
1950	2,697	366	2,301	494	270	1,115	2,143	2,202	1,865	2,491	15,994	12,753
1951	2,800	210	2,730	470	527	2,043	2,856	2,256	1,892	2,950	18,734	15,464
1952	3,277	1,202	2,901	924	349	1,118	2,001	2,218	1,866	2,843	18,799	14,598
1953	3,895	902	2,414	909	793	1,488	2,138	2,042	2,263	1,500	18,344	13,540
1954	4,744	691	2,972	1,050	504	681	3,127	2,213	2,228	2,039	20,249	14,455
1955	6,334	1,888	3,546	1,241	446	768	3,321	2,745	3,133	2,801	26,223	18,648
1956	6,117	1,757	3,512	1,500	1,261	1,174	3,039	2,586	3,930	2,046	26,922	19,305
1957	6,324	1,594	3,895	2,100	1,495	908	4,109	2,864	4,796	1,213	30,298	20,874
1958	6,134	1,394	3,193	2,300	1,794	1,265	3,597	3,105	4,519	2,647	29,948	21,514
1959	8,124	1,448	3,957	2,800	2,078	3,566	3,429	2,640	3,478	2,231	33,751	22,827
1960	11,110	2,527	4,953	3,200	3,015	2,738	3,031	3,392	4,175	2,754	40,895	26,585
1961	11,140	1,921	5,274	3,700	3,041	2,554	3,433	3,471	4,340	1,530	40,404	25,564
1962	11,930	2,942	5,693	4,800	2,751	3,367	2,565	3,396	4,091	1,541	43,076	26,346
1963	13,300	3,925	5,932	5,000	1,994	4,547	2,230	3,444	4,266	1,437	46,075	27,775
1964	15,660	3,424	6,975	5,600	1,821	5,484	2,717	3,952	4,735	3,118	53,486	32,226
1965	14,450	2,457	7,589	6,600	1,474	9,039	3,145	4,950	5,173	6,033	60,910	39,860
1966	15,990	3,089	8,395	5,900	2,495	9,419	2,342	4,196	5,279	3,200	60,305	38,415
1967	17,332	3,855	7,773	6,500	2,025	10,131	2,482	4,685	6,622	4,449	65,855	42,023
1968	19,479	4,677	7,513	6,700	2,598	15,944	2,337	5,613	6,760	4,523	76,144	49,965
1969	22,303	6,901	9,518	8,100	3,053	12,394	3,193	5,748	7,655	5,113	83,978	53,575
1970	22,443	6,881	10,724	8,400	3,588	11,845	3,355	6,225	8,586	6,349	90,396	59,553
1971	22,947	7,091	9,965	8,500	3,681	16,305	5,125	7,026	9,697	6,170	96,507	65,060
1972	26,213	8,796	10,727	8,600	5,039	15,662	5,090	7,050	10,024	5,149	102,350	67,537
1973	28,003	8,559	11,958	9,000	6,388	13,403	6,659	8,974	13,379	7,037	113,360	76,357
1974	29,723	6,341	13,683	10,300	8,791	14,154	9,668	12,876	14,917	9,973	130,426	90,403
1975	23,432	6,944	12,424	11,600	7,464	10,767	8,387	14,255	12,405	5,942	113,620	78,588
1976	27,538	10,880	13,175	11,750	8,435	12,658	5,333	15,165	13,868	6,437	125,239	85,951
1977	25,637	11,054	12,171	E 12,000	E 5,937	17,175	5,974	13,964	16,337	6,849	127,098	89,461

(1) Canada, Oceania, unallocated - see Table 10 for details

TABLE 14

WORLD STEEL EXPORTS BY REGION OF DESTINATION

percentages

A. Gross Trade, including intra EEC (9) and intra COMECON exchanges

Year	EEC (9)	Other Western Europe	Eastern Europe & USSR	United States	Latin America	Africa and Middle East	Asia and Far East	Other and Unallocated
1950	19.2	14.4	4.8	7.0	13.4	13.8	11.7	15.6
1951	16.1	14.6	5.3	10.9	15.2	12.0	10.1	15.7
1952	23.8	15.4	6.8	5.9	10.6	11.8	9.9	15.7
1953	26.2	13.2	9.3	8.1	11.7	11.1	12.3	8.2
1954	26.8	14.7	7.7	3.4	15.4	10.9	11.0	10.1
1955	31.4	13.5	6.4	2.9	12.7	10.5	11.9	10.7
1956	29.2	13.0	10.3	4.4	11.3	9.6	14.6	7.6
1957	26.1	12.9	11.9	3.0	13.6	9.5	15.8	4.0
1958	25.1	10.7	13.7	4.2	12.0	10.4	15.1	8.8
1959	28.4	11.7	14.5	10.6	10.2	7.8	10.3	6.6
1960	33.3	12.1	15.2	6.7	7.4	8.3	10.2	6.7
1961	32.3	13.1	16.7	6.3	8.5	8.6	10.7	3.8
1962	34.5	13.2	17.5	7.8	6.0	7.9	9.5	3.6
1963	37.4	12.9	15.2	9.9	4.8	7.5	9.3	3.1
1964	35.6	13.0	13.9	10.3	5.1	7.4	8.7	5.8
1965	27.8	12.5	13.3	14.8	5.2	8.1	8.5	9.9
1966	31.6	13.9	13.9	15.6	3.9	7.0	8.8	5.3
1967	32.2	11.8	12.9	15.4	3.8	7.1	10.1	6.8
1968	31.7	9.9	12.2	20.9	3.1	7.4	8.9	5.9
1969	34.8	11.3	13.3	14.8	3.8	6.8	9.1	6.1
1970	34.7	11.9	13.3	13.1	3.7	6.9	9.5	7.0
1971	31.1	10.3	12.6	16.9	5.3	7.3	10.0	6.4
1972	34.2	10.5	13.3	15.3	5.0	6.9	9.8	5.0
1973	32.3	10.5	13.6	11.8	5.9	7.9	11.8	6.2
1974	27.7	10.5	14.6	10.9	7.4	9.9	11.4	7.6
1975	26.7	10.9	16.8	9.5	7.4	12.5	10.9	5.2
1976	30.7	10.5	16.1	10.1	4.3	12.1	11.1	5.1
1977	28.9	9.6	14.1	13.5	4.7	11.0	12.9	5.4

B. Net Trade, excluding intra EEC (9) and intra COMECON exchanges

Year	EEC (9)	Other Western Europe	Eastern Europe & USSR	United States	Latin America	Africa and Middle East	Asia and Far East	Other and Unallocated
1950	2.9	18.0	2.1	8.7	16.6	17.3	14.6	19.5
1951	1.4	17.7	3.4	13.2	18.5	14.6	12.2	19.1
1952	8.2	19.9	2.4	7.7	13.7	15.2	12.8	20.2
1953	6.7	17.8	5.9	11.0	15.8	15.1	16.7	11.1
1954	4.8	20.6	3.5	4.7	21.6	15.3	15.4	14.1
1955	10.1	19.0	2.4	4.1	17.8	14.7	16.3	15.0
1956	9.1	18.2	6.5	6.1	15.7	13.4	20.4	10.6
1957	7.6	18.7	7.2	4.3	19.7	13.7	23.0	5.8
1958	6.5	14.8	8.3	5.9	16.7	14.4	21.0	12.3
1959	6.3	17.3	9.1	15.6	15.0	11.6	15.2	9.8
1960	9.5	18.5	11.3	10.3	11.4	12.8	15.7	10.4
1961	7.5	20.6	11.9	10.0	13.4	13.6	17.0	6.0
1962	11.2	21.6	10.4	12.8	9.7	12.9	15.5	5.8
1963	14.1	21.4	7.2	16.4	8.0	12.4	15.4	5.2
1964	10.6	21.6	5.7	17.0	8.4	12.3	14.7	9.7
1965	6.2	19.0	3.7	22.7	7.9	12.4	13.0	15.1
1966	8.0	21.3	6.5	24.5	6.1	10.9	13.7	8.3
1967	9.2	19.5	4.8	24.1	5.9	11.2	15.3	10.6
1968	9.4	15.0	5.2	31.9	4.7	11.2	13.5	9.1
1969	12.9	17.8	5.7	23.1	6.0	10.7	14.3	9.5
1970	14.9	18.0	6.0	19.9	5.5	10.5	14.1	10.7
1971	10.9	15.3	5.7	25.1	7.9	10.8	14.9	9.5
1972	13.0	15.9	7.5	23.2	7.5	10.5	14.9	7.6
1973	11.2	15.7	8.4	17.6	8.7	11.8	17.5	9.2
1974	7.0	15.1	9.7	15.7	10.7	14.2	16.5	11.0
1975	8.8	15.8	9.5	13.7	10.7	18.1	15.8	7.6
1976	12.7	15.3	9.8	14.7	6.2	17.6	16.1	7.5
1977	12.4	13.6	6.6	19.2	6.7	15.6	18.3	7.7

TABLE 15

WORLD STEEL EXPORTS BY PRODUCTS[1]

1950 - 1976

Thousand Metric Tons of Products

Year	Ingots Semis	Railway Track Material	Heavy & Light Sections	Wire Rods	Plate	Strip	Sheet	Steel Tubes & Fitting	Wire	Tinplate	Wheels Tyres & Axles	Total
1950	1,336	1,298	5,027	649	3,408	737	27	1,764	542	840	220	15,848
1951	1,167	1,272	6,275	665	4,364	854	38	2,170	690	878	242	18,615
1952	1,920	1,202	5,833	653	4,235	753	35	2,349	561	947	188	18,676
1953	1,654	1,368	5,647	714	4,513	706	136	2,253	418	869	199	18,477
1954	2,077	1,175	5,920	794	2,552	894	2,700	2,228	608	1,184	155	20,287
1955	3,127	1,493	7,659	893	3,277	1,191	3,590	2,451	736	1,452	252	26,121
1956	2,748	1,431	8,395	979	6,794	1,268	610	3,051	668	1,386	202	27,532
1957	3,562	1,815	8,331	918	4,267	1,064	4,350	3,849	742	1,539	335	30,772
1958	3,379	1,949	7,286	1,120	3,957	1,076	4,728	3,358	795	1,291	237	29,176
1959	4,268	1,273	8,929	1,605	4,078	1,269	4,948	3,521	884	1,425	203	32,403
1960	5,552	1,524	9,796	1,868	4,544	1,979	6,933	3,763	1,164	1,793	245	39,161
1961	5,660	1,495	10,319	2,009	4,676	1,690	6,266	3,726	1,117	1,551	230	38,739
1962	5,354	1,639	11,086	2,344	5,248	1,830	7,346	4,298	1,120	1,717	269	42,251
1963	6,123	1,237	11,363	2,597	5,104	1,874	8,868	4,217	1,219	1,824	259	44,685
1964	8,256	1,285	12,540	3,080	6,104	2,073	10,452	4,651	1,306	1,999	254	52,000
1965	8,850	1,527	15,096	3,596	7,548	2,200	11,279	5,879	1,416	1,861	291	59,543
1966	8,867	1,355	13,980	3,630	8,378	2,173	11,318	5,826	1,439	2,017	287	59,270
1967	10,671	1,244	14,270	3,700	8,947	2,190	12,693	6,151	1,456	2,193	238	63,753
1968	10,657	1,297	15,908	4,940	10,895	2,964	15,141	7,756	1,650	2,202	200	73,610
1969	13,256	1,494	17,051	4,777	12,287	2,739	17,470	8,518	1,812	2,547	262	82,213
1970	14,576	1,587	18,097	5,149	12,501	3,039	18,623	9,253	1,859	2,731	333	87,748
1971	14,064	1,533	18,789	5,616	13,638	2,828	20,011	9,980	1,809	2,636	352	91,456
1972	13,808	1,466	19,649	5,672	14,478	3,552	21,826	10,094	1,947	2,924	318	95,734
1973	17,677	1,540	22,211	6,172	14,683	4,165	22,747	11,614	2,034	3,344	285	106,472
1974	20,670	1,825	27,868	7,219	17,429	4,599	22,677	14,256	2,379	3,577	305	122,804
1975	20,623	2,080	22,669	5,827	15,708	3,266	16,727	15,125	1,744	3,096	298	107,159
1976	19,937	1,662	31,488	6,708	21,939	4,066	12,731	15,347	2,016	3,096	462	119,452

(1) The analysis covers about 94 per cent of total world exports in the past five years and a higher percentage in earlier years. Sheets are included in Plates in the following cases: Switzerland (all years); USA (1975 only); Japan (1976 only).

TABLE 16

WORLD STEEL EXPORTS BY PRODUCTS

Percentages

Year	Ingots Semis	Railway Track Material	Heavy & Light Sections	Wire Rods	Plates	Strip	Sheets	Steel Tubes & Fitting	Wire	Tinplate	Wheels Tyres Axles	Total
1950	8.4	6.2	31.7	4.1	21.5	4.7	0.2	11.1	3.4	5.3	1.4	100.0
1951	6.3	6.8	33.7	3.6	23.4	4.6	0.2	11.7	3.7	4.7	1.3	100.0
1952	10.3	6.4	31.2	3.5	22.7	4.0	0.2	12.6	3.0	5.1	1.0	100.0
1953	8.9	7.4	30.6	3.9	24.4	3.8	0.7	12.2	2.3	4.7	1.1	100.0
1954	10.2	5.8	29.2	3.9	12.6	4.4	13.3	11.0	3.0	5.8	0.8	100.0
1955	12.0	5.7	29.3	3.4	12.5	4.6	13.7	9.4	2.8	5.6	1.0	100.0
1956	10.0	5.2	30.5	3.6	24.7	4.6	2.2	11.1	2.4	5.0	0.7	100.0
1957	11.6	5.9	27.1	3.0	13.9	3.4	14.1	12.5	2.4	5.0	1.1	100.0
1958	11.6	6.7	25.0	3.8	13.6	3.7	16.2	11.5	2.7	4.4	0.8	100.0
1959	13.2	3.9	27.6	4.9	12.6	3.9	15.3	10.9	2.7	4.4	0.5	100.0
1960	14.2	3.9	25.0	4.8	11.6	5.0	17.7	9.0	3.0	4.6	0.6	100.0
1961	14.6	3.9	26.6	5.2	12.1	4.3	15.2	9.0	2.9	4.0	0.6	100.0
1962	12.7	3.9	26.2	5.6	12.4	4.3	17.4	10.2	2.6	4.1	0.5	100.0
1963	13.7	2.8	25.4	5.8	11.4	4.2	19.9	9.4	2.7	4.1	0.6	100.0
1964	15.9	2.5	24.1	5.9	11.7	4.0	20.1	9.0	2.5	3.8	0.5	100.0
1965	14.9	2.6	25.3	6.0	12.7	3.7	18.9	9.9	2.4	3.1	0.5	100.0
1966	15.0	2.3	23.6	6.1	14.1	3.7	19.1	9.8	2.4	3.4	0.5	100.0
1967	16.7	2.0	22.4	5.8	14.0	3.4	19.9	9.6	2.3	3.4	0.4	100.0
1968	14.5	1.8	21.6	6.7	14.8	4.0	20.5	10.5	2.2	3.0	0.3	100.0
1969	16.1	1.8	20.7	5.3	14.9	3.3	21.5	10.4	2.2	3.1	0.3	100.0
1970	13.6	1.8	20.6	5.9	14.2	3.5	21.2	10.5	2.1	3.1	0.4	100.0
1971	15.4	1.7	20.5	5.1	14.9	3.1	21.9	10.9	2.0	3.1	0.4	100.0
1972	14.4	1.5	20.5	5.9	15.1	3.7	22.8	10.6	2.0	3.1	0.3	100.0
1973	16.6	1.4	20.9	5.8	13.3	3.9	21.4	10.9	1.9	3.1	0.3	100.0
1974	16.8	1.5	22.7	5.9	14.2	3.7	18.5	11.6	1.9	2.9	0.3	100.0
1975	19.2	1.9	21.2	5.4	14.7	3.1	15.6	14.1	1.9	2.9	0.3	100.0
1976	16.7	1.4	26.3	5.0	18.4	3.4	10.7	12.3	1.7	2.6	0.4	100.0

i(1)

TABLE 17 EXPORTS BY PRODUCT GROUP OF MAIN EXPORTING COUNTRIES, 1976

QUANTITIES IN THOUSANDS OF METRIC TONS

PRODUCTS / EXPORTING COUNTRY	INGOTS BLOOMS BILLETS SLABS, ETC. 1	WIRE RODS 2	BARS FOR CONCRETE REINFORCING 3	OTHER BARS AND RODS, HOT ROLLED 4	ANGLES SHAPES AND SECTIONS 5	HOT ROLLED STRIP 6	HOT ROLLED WIDE COILS OVER 500mm IN WIDTH 7	PLATES 3mm & OVER UNCOATED 8	SHEETS UNDER 3mm UNCOATED HOT ROLLED 9	SHEETS UNDER 3mm UNCOATED COLD REDUCED 10	GALVANISED SHEETS 11	TINPLATE AND TINNED SHEETS (f) 12	OTHER COATED PLATES AND SHEETS 13	RAILS (NEW) 14	TRACK ACCESSORIES 15	SUB TOTAL 1-15
BELGIUM - LUXEMBOURG	1071.6	510.8	759.2	497.2	2630.1	455.0	1185.0	1502.2	80.4	2127.8	590.4	223.6	71.5	53.5	0.4	11759.5
FRANCE	435.9	955.4	179.3	551.5	636.0	208.8	986.3	380.5	27.0	1674.1	237.4	424.8	81.6	232.8	24.7	7036.0
GERMANY FED REP	1051.3	758.7	406.0	832.3	1278.3	326.4	1119.8	1678.9	22.8	2112.5	522.6	424.3	83.2	126.2	17.8	10761.8
ITALY	123.2	64.0	1203.3	360.3	432.8	13.4	677.7	384.9	15.7	557.9	79.5	51.5	4.1	24.3	7.6	4009.9
NETHERLANDS	681.4	234.8	171.0	32.2	91.3	66.7	1068.8	277.0	24.3	915.2	59.1	311.7	12.6	2.0	0.8	3956.3
UNITED KINGDOM	259.2	205.6	283.6	344.8	581.5	37.6	-	325.2	20.5	284.5	110.6	240.4	86.5	60.8	23.2	2843.8
TOTAL OF ABOVE	[illegible]	2732.6	2997.8	2625.6	5650.2	1108.1	5037.8	4548.8	190.9	7672.3	1599.9	1676.4	339.7	505.6	74.6	[illegible]
AUSTRIA	54.0	99.3	27.5	170.7	33.3	40.2	331.4	160.2	25.3	718.6	28.5	-	3.5	100.7	-	1762.7
SPAIN	53.1	58.7	(d)	584.6	855.0	12.1	26.9	409.1	-	182.0	56.6	3.1	1.2	14.3	0.8	2759.2
SWEDEN	189.9	74.9	117.6	139.4	84.9	2.3	11.9	554.4	1.0	62.0	71.9	4.1	6.2	18.5	0.3	1342.7
CANADA	129.9	164.4	(d)	46.8	131.8	(a)	(c)	165.4	317.2	84.7	106.4	115.8	(b)	162.1	3.6	1489.6
UNITED STATES OF AMERICA	236.7	90.7	82.3	132.0	110.4	180.7	10.5	62.5	126.3	179.5	38.4	349.7	73.4	131.5	21.0	1633.6
JAPAN	1060.0	2242.8	1809.2	2099.0	3148.9	562.5	4605.3	4359.4	608.3	6050.9	1830.6	784.5	569.7	131.3	3.0	29866.2
AUSTRALIA	1452.6	189.2	(d)	26.1	37.4	9.3	306.7	38.8	29.8	34.4	88.0	49.4	1.8	13.2	0.7	2278.1
TOTAL LISTED COUNTRIES	[illegible]	5694.0	5009.6	5778.5	10059.4	1915.4	10330.7	10305.9	1293.1	14991.7	3820.7	2982.4	995.8	1093.9	104.4	81116.5

PRODUCTS / EXPORTING COUNTRY	COLD FINISHED BARS & RODS 16	COLD ROLLED STRIP 17	DRAWN WIRE (SINGLE) 18	STEEL PIPE TUBES & FITTINGS 19	RAILWAY AXLES TYRES & WHEELS 20	CASTINGS 21	FORGINGS 22	SUB TOTAL 16-22	GRAND TOTAL 1-22
BELGIUM - LUXEMBOURG	10.0	217.3	435.9	287.3	2.0	-	-	952.8	12712.3
FRANCE	26.7	207.0	153.8	1055.0	67.4	-	-	1510.1	8546.9
GERMANY FED REP	161.7	725.0	275.5	3050.3	15.6	-	-	4228.3	14990.1
ITALY	38.9	56.6	57.9	1833.1	9.8	0.7	33.0	2050.4	6051.3
NETHERLANDS	1.9	42.4	36.8	384.2	0.7	-	-	466.3	4422.6
UNITED KINGDOM	62.7	84.8	112.8	499.3	23.4	12.3	32.3	827.9	3671.7
TOTAL OF ABOVE	322.2	1333.3	1072.9	7109.4	119.1	13.1	65.4	10035.8	50395.1
AUSTRIA	13.0	56.8	53.1	149.7	-	2.3	3.5	278.8	2028.5
SPAIN	(d)	3.8	13.4	167.3	-	-	-	184.7	2942.8
SWEDEN	15.1	71.9	68.6	181.2	1.1	0.1	0.7	339.1	1681.8
CANADA	2.6	(a)	41.9	276.6	-	10.3	54.8	386.4	1816.0
UNITED STATES OF AMERICA	21.8	44.6	39.8	511.7	-	20.9	46.0	685.0	2517.4
JAPAN	89.0	404.6	418.8	5110.8	105.9	4.1	9.2	6143.0	36009.2
AUSTRALIA	1.6	0.2	52.9	22.7	-	0.8	1.3	82.8	2360.9
TOTAL LISTED COUNTRIES	465.8	1915.6	1764.8	13529.7	226.3	51.9	181.1	18135.5	99252.0

(1) THESE COUNTRIES ACCOUNT FOR APPROXIMATELY 79 PER CENT OF WORLD STEEL EXPORTS

(a) INCLUDED WITH SHEETS, UNCOATED AND TINPLATE AND TINNED SHEETS

(b) INCLUDED WITH TINPLATE AND TINNED SHEETS

(c) INCLUDED WITH PLATES AND/OR SHEETS UNCOATED

(d) INCLUDED WITH OTHER BARS AND RODS HOT ROLLED

(f) INCLUDES TINPLATE LACQUERED

TABLE 18

(1)
EXPORTS BY PRODUCT GROUP OF MAIN EXPORTING COUNTRIES, 1977

TOTALS BY PRODUCTS AND EXPORTING COUNTRIES

ALL GRADES

QUANTITIES IN THOUSANDS OF METRIC TONS

PRODUCTS / EXPORTING COUNTRY	INGOTS BLOOMS BILLETS SLABS, ETC. 1	WIRE RODS 2	BARS FOR CONCRETE REINFORCING 3	OTHER BARS AND RODS, HOT ROLLED 4	ANGLES SHAPES AND SECTIONS 5	HOT ROLLED STRIP 6	HOT ROLLED WIDE COILS OVER 500mm IN WIDTH 7	PLATES 3mm & OVER UNCOATED 8	SHEETS UNDER 3mm UNCOATED HOT ROLLED 9	SHEETS UNDER 3mm UNCOATED COLD REDUCED 10	GALVANISED SHEETS 11	TINPLATE AND TINNED SHEETS (f) 12	OTHER COATED PLATES AND SHEETS 13	RAILS (NEW) 14	TRACK ACCESSORIES 15	SUB TOTAL 1–15
BELGIUM - LUXEMBOURG	644.2	507.9	564.3	374.2	2478.9	446.8	1428.1	1392.8	124.7	2368.4	546.4	261.5	68.1	48.4	0.7	11256.1
FRANCE	339.3	1005.0	408.6	421.1	663.8	248.5	1906.3	515.3	42.6	1247.9	272.4	500.2	100.9	194.1	13.9	8357.5
GERMANY FED REP	980.7	720.6	208.1	730.1	1367.2	368.0	1618.7	1657.0	34.6	2684.2	104.7	800.7	111.6	82.9	13.1	11553.1
ITALY	66.0	61.8	1110.7	615.4	676.0	21.0	856.4	422.9	19.7	765.6	73.7	39.0	5.0	26.4	4.3	4772.0
NETHERLANDS	500.0	203.5	153.3	36.6	68.7	64.3	1040.5	233.5	18.3	964.6	63.8	337.8	9.6	1.1	0.5	3695.7
UNITED KINGDOM	416.2	395.5	270.2	467.6	591.3	39.1	–	445.5	14.1	443.0	116.8	260.0	77.0	41.5	33.0	3511.3
TOTAL OF ABOVE	[illegible]	[illegible]	2715.5	[illegible]	[illegible]	1187.9	[illegible]	4671.3	261.2	9174.0	1176.0	2199.4	[illegible]	[illegible]	[illegible]	[illegible]
AUSTRIA	4.2	83.9	19.2	122.6	39.1	33.1	306.6	169.7	29.9	769.5	47.7	–	3.5	48.4	0.1	[illegible]
SPAIN	23.0	94.9	(d)	918.8	939.8	1.6	11.3	289.9	–	84.0	99.2	1.0	1.3	8.3	0.7	2475.4
SWEDEN	272.5	83.5	130.9	226.2	141.8	8.0	8.8	452.9	3.1	77.5	72.3	4.7	5.4	20.0	0.5	1503.8
CANADA	239.7	195.3	(d)	90.6	207.0	(a)	(c)	226.6	269.8	55.5	154.0	178.9	(b)	122.4	15.0	1755.4
UNITED STATES OF AMERICA	225.3	76.1	68.9	99.8	96.5	30.2	7.8	55.0	36.6	127.3	27.5	316.5	65.2	57.4	18.3	1309.1
JAPAN	427.8	2119.5	1086.2	1637.0	2604.7	590.2	4241.2	4125.9	557.7	6208.8	2107.2	907.8	409.3	165.1	4.9	27194.0
AUSTRALIA	1301.8	194.2	(d)	39.5	35.1	31.6	462.1	39.7	10.7	46.9	134.3	97.5	2.2	7.9	1.1	2405.2
TOTAL LISTED COUNTRIES	5441.3	5612.2	4020.7	5780.1	9910.4	1882.9	11888.3	10054.4	1160.3	16953.8	3820.6	3705.1	860.2	651.0	107.3	[illegible]

PRODUCTS / EXPORTING COUNTRY	COLD FINISHED BARS & RODS 16	COLD ROLLED STRIP 17	DRAWN WIRE (SINGLE) 18	STEEL PIPE TUBES & FITTINGS 19	RAILWAY AXLES TYRES & WHEELS 20	CASTINGS 21	FORGINGS 22	SUB TOTAL 16-22	GRAND TOTAL 1-22
BELGIUM - LUXEMBOURG	10.3	228.2	420.6	273.4	0.6	–	–	933.1	12189.4
FRANCE	36.7	233.7	172.2	1042.3	62.5	–	–	1547.4	10135.3
GERMANY, FED REP	158.9	726.6	286.7	2618.6	18.1	6.3	9.9	3825.1	15378.7
ITALY	71.3	53.4	63.1	1741.4	6.9	1.8	29.9	1967.8	6740.0
NETHERLANDS	2.8	33.5	36.4	332.1	0.4	–	–	405.2	4102.2
UNITED KINGDOM	61.2	81.2	117.0	460.3	16.1	15.7	36.6	787.4	4399.0
TOTAL OF ABOVE	341.5	1356.9	1096.4	[illegible]	103.8	24.0	76.4	[illegible]	[illegible]
AUSTRIA	20.4	54.2	46.1	142.9	0.2	3.0	4.0	282.8	2018.5
SPAIN	(d)	3.7	20.6	178.3	–	–	–	202.6	2678.0
SWEDEN	18.1	73.4	67.5	209.2	2.4	0.1	0.7	371.4	1880.5
CANADA	4.3	(a)	60.5	262.5	–	7.9	51.1	386.3	2141.9
UNITED STATES OF AMERICA	32.4	42.2	41.2	414.4	4.1	20.8	41.2	596.3	1905.7
JAPAN	122.9	415.3	455.8	5121.5	75.6	3.4	10.7	6205.2	33399.6
AUSTRALIA	1.4	0.8	31.2	41.7	–	0.8	0.9	76.8	2482.5
TOTAL LISTED COUNTRIES	541.4	1966.7	1821.7	12839.5	186.3	60.3	186.3	17591.4	99451.9

(1) THESE COUNTRIES ACCOUNT FOR APPROXIMATELY 78 PER CENT OF WORLD STEEL EXPORTS

(a) INCLUDED WITH SHEETS, UNCOATED AND TINPLATE AND TINNED SHEETS

(b) INCLUDED WITH TINPLATE AND TINNED SHEETS

(c) INCLUDED WITH PLATES AND/OR SHEETS UNCOATED

(d) INCLUDED WITH OTHER BARS AND RODS HOT ROLLED

(f) INCLUDES TINPLATE LACQUERED

TABLE 19

WORLD APPARENT DIRECT STEEL CONSUMPTION

1967 - 1977

(Thousand Metric Tons, Crude Steel Equivalent)

COUNTRY	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977 (P)
Western Europe											
Belgium/Lux	3,900	4,072	4,695	4,783	4,818	4,676	4,796	5,283	3,185	4,620	3,955
Denmark	1,709	1,619	2,183	2,162	1,932	2,207	2,329	2,322	1,814	2,273	1,814
F.R. of Germany	28,025	34,864	40,104	40,601	35,569	39,970	40,411	35,070	30,263	36,780	33,008
France	17,841	17,945	22,291	23,236	21,230	24,336	25,262	24,937	19,261	23,545	E19,580
Ireland	309	358	431	423	425	466	471	554	353	477	479
Italy	16,832	17,153	18,737	21,113	18,310	20,585	22,561	23,651	17,778	21,758	E20,670
Netherlands	4,237	44,427	4,998	5,668	5,010	5,000	5,350	5,682	4,533	5,063	4,463
United Kingdom(1)	21,474	23,689	24,696	25,433	20,519	22,951	24,907	23,344	20,683	23,026	19,717
Total EEC	94,327	104,157	118,135	123,419	107,813	120,251	126,087	120,843	97,880	117,542	103,686
Austria	1,910	2,248	2,436	2,940	2,727	2,788	3,251	3,363	2,153	2,704	2,521
Finland	1,288	1,340	1,605	1,888	1,447	1,751	2,046	1,877	2,043	1,842	1,547
Greece	846	825	946	883	1,034	1,311	1,797	1,583	1,290	1,563	E 1,500
Iceland	39	33	32	52	41	35	39	65	47	46	55
Norway	1,439	1,415	1,664	1,929	1,718	1,772	1,957	2,500	2,062	1,769	1,636
Portugal	660	582	753	896	846	905	1,146	1,374	1,036	1,113	E 1,490
Spain	6,018	1,091	8,513	8,544	7,862	9,508	10,696	12,091	10,909	10,983	9,052
Sweden	4,606	4,932	5,671	5,900	5,484	5,567	5,904	6,312	6,328	5,960	3,824
Switzerland	2,075	2,193	2,744	2,976	2,406	3,098	3,106	2,606	1,482	2,014	2,254
Turkey	780	873	1,466	1,781	1,976	2,131	2,232	3,235	2,948	3,984	E 4,040
Yugoslavia	2,717	2,618	3,013	3,425	4,130	3,878	3,634	4,240	5,301	4,063	5,185
Others	130	143	169	202	195	195	209	157	81	E 138	E 135
Total Western Europe	116,835	127,450	147,147	154,835	137,759	153,190	162,104	160,246	133,560	153,741	136,925
Eastern Europe											
Albania	44	54	85	77	89	88	120	130	115	E 107	E 118
Bulgaria	1,832	2,119	2,230	2,320	2,119	1,503	1,999	2,021	2,197	2,069	E 2,480
Czechoslovakia	8,256	8,600	9,255	8,838	9,457	9,599	10,025	10,288	10,812	11,433	E11,248
D.R. of Germany	7,472	8,072	8,843	9,080	8,567	8,648	8,439	8,867	9,530	9,908	E10,220
Hungary	2,610	3,144	3,019	3,080	3,221	3,268	3,270	3,806	3,806	3,432	E 3,655
Poland	9,991	10,431	11,113	11,684	12,528	13,967	15,838	17,379	17,833	18,310	E18,739
Romania	4,761	4,336	5,989	6,430	6,832	7,777	8,163	8,937	9,831	11,432	E11,910
Total Eastern Europe	34,966	36,756	40,534	41,509	42,813	44,850	47,854	51,428	54,124	56,691	E58,370
USSR	97,253	100,813	104,837	110,234	115,364	121,243	129,391	137,554	141,031	145,171	E147,015
North America											
Canada	9,169	10,151	10,589	11,085	11,753	12,842	14,153	15,458	13,178	12,570	E12,666
United States	126,649	137,751	138,680	127,304	127,663	138,410	149,595	144,120	116,821	129,953	133,923
Total North America	135,818	147,902	149,269	138,389	139,416	151,253	163,748	159,578	129,999	142,523	146,589
Other America											
Argentina	1,905	2,220	3,447	3,286	3,708	3,739	4,126	4,138	4,287	3,314	E 3,595
Brazil	3,562	4,494	5,532	6,088	7,386	7,662	9,513	12,799	11,241	10,715	E11,975
Chile	560	590	782	795	692	800	657	772	565	508	E 560
Colombia	417	549	635	685	633	692	651	815	862	728	E 750
Cuba	E 388	E 388	E 484	E 434	E 441	E 557	E 728	E 919	E 1,071	E 963	E 950
Mexico	3,164	3,320	3,706	4,168	4,051	4,684	5,174	6,112	6,211	5,962	E 5,875
Peru	321	262	375	460	466	445	645	688	E 786	E 538	E 642
Venezuela	1,165	1,425	1,553	1,614	1,693	2,025	2,081	2,734	2,352	2,835	E 2,467
Others	510	560	650	690	E 1,000	E 950	E 1,100	E 1,350	E 910	E 1,235	E 1,250
Total Other America	11,992	13,808	17,164	18,220	20,070	21,554	24,675	30,328	28,085	26,798	28,064

NOTE: The figures in this table are calculated as Production + Imports - Exports; no account is taken of changes in producer, consumer or merchant stocks, or of material re-used after re-rolling.
Conversion of imports and exports into crude steel equivalent has been made using United Nations coefficients.
See Definitions facing Page I
(1) Calculated by IISI on a calendar year basis

E = Estimated, using available data on production and foreign trade.

WORLD APPARENT DIRECT STEEL CONSUMPTION ((CONTINUED)
(1967 - 1977)

(Thousand Metric Tons, Crude Steel Equivalent)

COUNTRY	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977 (P)
Africa											
Algeria	226	497	704	736	694	731	834	1,150	1,395	E 1,236	E 2,058
Morocco	251	259	316	334	303	350	390	437	495	E 730	E 867
Nigeria	269	318	419	650	540	571	710	884	1,339	E 1,290	E 1,760
Rhodesia	151	147	290	344	379	460	280	280	E 500	E 500	E 500
South Africa	3,813	3,975	4,303	4,783	5,532	4,881	5,636	6,494	7,506	6,066	E 4,672
Tunisia	154	130	171	173	216	309	289	309	287	E 288	E 450
Others	1,200	1,286	1,262	1,661	1,530	1,867	E 2,754	3,413	E 2,270	E 2,304	E 2,559
Total Africa	6,064	6,612	7,465	8,681	9,194	9,169	10,893	12,967	13,792	12,414	12,866
Middle East											
Egypt	758	665	702	921	949	1,040	993	1,040	1,595	E 1,340	E 1,251
Iran	1,415	1,715	1,643	1,740	1,728	1,804	2,568	2,973	5,742	E 5,490	E 4,665
Iraq	246	435	254	449	432	468	771	1,374	1,931	E 1,070	E 975
Israel	321	751	635	655	607	722	886	1,114	697	E 627	E 462
Kuwait	306	196	206	219	221	188	189	322	428	E 1,210	E 930
Lebanon	237	269	288	276	262	426	514	520	304	E 100	E 110
Libyan Arab Republic	555	550	463	408	308	466	693	706	771	E 800	E 670
Saudi Arabia	162	304	249	430	432	566	810	805	1,307	E 2,005	E 1,925
Syrian Arab Republic	176	182	280	270	207	283	360	344	463	E 920	E 625
Others	318	344	349	447	445	411	661	656	1,175	1,890	E 810
Total Middle East	4,294	5,411	5,069	5,815	5,591	6,374	8,445	9,854	14,414	15,442	12,423
Asia											
Bangladesh	-	-	-	-	-	(2) 79	187	103	E 149	E 150	E 160
China (Mainland) (4)	E16,089	E17,197	E18,350	E20,967	E24,948	E25,951	E30,748	E30,659	E31,073	E26,873	29,900
(Taiwan)	815	908	956	740	1,060	969	1,675	2,851	1,910	3,019	E 3,103
Hong Kong	398	469	516	647	654	579	651	664	E 619	E 1,120	E 1,240
India	6,442	5,819	5,999	6,432	7,710	9,227	8,221	8,551	8,500	8,202	8,710
Indonesia	208	263	428	597	612	1,030	1,442	1,200	E 1,352	E 1,612	E 1,600
Japan	50,808	49,908	61,607	69,882	57,699	68,888	87,181	75,753	64,736	60,176	58,243
Republic of Korea	744	907	1,108	1,279	1,475	1,496	2,860	3,230	E 2,960	E 3,970	E 5,900
D.P.R. of Korea (4)	E 1,464	E 1,770	E 2,025	E 2,228	E 2,372	E 2,535	E 3,046	E 3,433	E 2,946	E 3,029	E 3,175
Malaysia	580	520	388	606	616	701	1,047	805	E 657	E 815	E 875
Pakistan	806	838	663	696	662	(2) 382	367	433	E 567	E 577	E 815
Philippines	1,084	1,080	1,306	1,351	814	1,350	1,206	1,015	E 1,322	E 1,444	E 1,600
Singapore	(3)	(3)	(3)	(3)	942	912	1,229	1,200	E 1,794	E 1,240	E 1,240
Thailand	740	762	714	793	795	1,081	1,240	1,031	E 1,064	E 1,340	E 1,700
Others (5)	E 3,793	E 4,047	E 2,699	E 3,330	E 3,804	E 382	E 1,786	E 2,219	E 3,641	E 2,714	E 3,216
Total Asia	83,971	84,488	96,759	109,548	104,163	115,562	143,120	133,147	123,290	116,281	121,477
Oceania											
Australia	5,263	5,884	5,571	6,138	7,212	7,850	7,057	7,483	6,298	6,550	6,050
New Zealand	706	758	806	918	835	736	955	1,224	910	E 910	850
Others	70	105	113	156	143	135	140	136	120	E 130	E 140
Total Oceania	6,039	6,747	6,490	7,212	8,190	7,085	8,152	8,843	7,328	7,590	7,040

SUMMARY

Western Europe	116,835	127,450	147,147	154,835	137,759	153,190	162,104	160,246	133,560	153,741	136,925
Eastern Europe	34,966	36,756	40,534	41,509	42,813	44,850	47,854	51,428	54,124	56,691	58,370
USSR	97,253	100,813	104,837	110,234	115,364	121,243	129,391	137,554	141,031	145,171	147,015
North America	135,818	147,902	149,269	138,389	139,416	151,253	163,748	159,578	129,999	142,523	146,589
Other America	11,992	13,808	17,164	18,220	20,070	21,551	24,675	30,328	28,085	26,798	28,064
Africa	6,064	6,612	7,465	8,681	9,194	9,169	10,893	12,967	13,792	12,414	12,866
Middle East	4,294	5,411	5,069	5,815	5,591	6,374	8,445	9,854	14,414	15,442	12,423
Asia	83,971	84,488	96,759	109,548	104,163	115,562	143,120	133,147	123,290	116,281	121,477
Oceania	6,039	6,747	6,490	7,212	8,190	7,085	8,152	8,843	7,328	7,590	7,040
World Total	496,958	529,987	574,734	595,443	582,560	630,277	698,382	708,945	645,623	676,651	672,296

(2) Prior to 1972, Bangladesh included with Pakistan
(3) Included in "Others" for Asia
(4) China (Mainland) and D.P.R. Korea are estimated from available information on production and trade; no account has been taken of trade between China and D.P.R. Korea, due to lack of information
(5) Including residual

TABLE 20

APPARENT DIRECT STEEL CONSUMPTION PER HEAD

(Kg Crude Steel Equivalent)

COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Western Europe										
Belgium/Luxemburg	409	470	477	479	465	472	521	314	467	385
Denmark	339	445	439	390	442	464	460	358	448	356
F.R. of Germany	579	659	658	580	648	652	565	489	593	538
France	359	443	458	414	471	485	475	385	445	369
Ireland	123	148	144	143	155	192	179	116	150	150
Italy	325	352	393	339	379	411	427	318	387	377
Netherlands	347	388	435	380	380	396	420	332	368	322
United Kingdom	430	447	459	369	411	445	417	370	412	353
Austria	306	331	396	366	372	432	445	286	359	335
Finland	286	341	402	309	377	438	401	434	390	326
Greece	94	80	100	117	148	210	177	143	171	162
Norway	371	433	497	441	451	494	627	514	444	404
Portugal	61	79	93	87	103	134	157	110	118	E124
Spain	205	254	254	230	276	307	343	306	305	249
Sweden	623	711	733	676	686	725	774	773	725	464
Switzerland	357	441	472	394	483	491	402	231	314	355
Turkey	43	44	51	52	55	55	81	69	85	98
Yugoslavia	130	149	167	201	187	173	200	248	189	239
Eastern Europe										
Albania	25	42	37	40	38	51	54	46	E 42	E 45
Bulgaria	251	265	273	248	175	232	233	252	236	282
Czechoslovakia	599	642	611	652	663	688	700	733	767	749
German D.R.	473	518	533	503	507	497	516	566	590	E511
Hungary	307	293	298	311	314	314	363	361	324	343
Poland	323	341	356	383	422	475	516	524	533	540
Romania	220	299	318	334	374	392	425	464	E533	E550
USSR	428	436	454	471	490	518	546	554	566	568
North America										
Canada	489	531	520	544	588	640	690	577	543	E542
United States	685	682	620	617	663	711	680	547	604	618
Latin America										
Argentina	84	139	148	157	156	167	165	168	129	E138
Brazil	51	56	64	77	78	95	124	106	98	E107
Chile	63	81	82	70	80	66	77	55	48	E 52
Colombia	28	31	32	29	31	29	35	28	30	E 30
Ecuador	22	20	29	38	18	20	37	E 38	E 42	E 45
Mexico	72	71	82	80	89	92	105	103	96	E 91
Peru	21	28	34	33	31	44	E 45	E 50	E 33	E 39
Uruguay	10	12	12	12	10	8	13	E 14	E 16	E 17
Venezuela	121	129	157	159	185	184	235	196	229	E194

APPARENT DIRECT STEEL CONSUMPTION PER HEAD (Continued)

(Kg Crude Steel Equivalent)

COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Africa										
Algeria	38	53	53	47	48	53	71	83	71	E115
Morocco	18	21	21	20	22	24	26	29	41	E 47
Nigeria	6	8	12	10	10	12	14	21	E 20	E 26
South Africa	197	207	222	223	185	219	246	282	219	E162
Tunisia	26	34	34	41	58	53	54	51	E 50	E 77
Middle East										
Egypt	21	22	28	25	30	28	29	43	E 35	E 36
Iran	63	59	42	58	59	82	93	174	E164	E144
Iraq	50	27	48	44	46	74	128	174	E 93	E 45
Israel	270	225	225	201	234	276	337	206	E181	E179
Kuwait	316	303	296	280	221	212	343	E428	E1,175	E853
Lebanon	103	107	99	91	144	168	187	106	E 34	E 37
Libyan Arab Republic	299	233	205	148	216	308	300	316	E316	E256
Saudi Arabia	42	33	30	54	69	96	92	146	E217	E218
Syrian Arab Republic	32	48	44	32	42	52	48	63	E121	E 98
Asia										
China (Mainland)	E 23	E 24	E 27	E 32	E 33	E 38	E 37	E 37	E 32	E 35
Hong Kong	119	129	158	162	142	156	156	142	E252	E275
India	11	11	12	14	16	14	15	14	13	E 14
Indonesia	2	3	4	5	6	9	9	10	E 12	E 11
Japan	494	603	675	551	643	802	688	580	534	512
Republic of Korea	29	35	51	55	54	84	93	84	111	162
D.P.R. of Korea	E135	E150	E160	E166	E173	E203	E222	E186	E186	E191
Malaysia	38	37	36	41	43	60	69	55	E 66	E 69
Pakistan	8	6	6	6	6	5	6	E 8	E 8	E 11
Philippines	31	37	37	21	35	30	25	31	E 33	E 36
Thailand	22	20	22	21	28	31	25	25	E 31	E 39
Oceania										
Australia	489	454	489	567	606	537	561	467	471	E428
New Zealand	276	290	326	293	254	323	407	297	290	E266

TABLE 21A

Broad Definition of the Steel Industry

APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

Thousand metric tons

AUSTRALIA

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes	Included in line L		40	28	18	36	48	18	9	5
B.	Ingots and Semi-Finished Material	29	32	194	176	161	45	46	612	24	18
C.	Railway Track Material	180	162	137	234	164	106	109	157	93	73
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	343	424	384	457					233	254
	2. Light Sections	)									
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 791	908	1,055	1,129					764	742
	4. Concrete Reinforcing Bars	)									
	5. Total D1 - D4	1,134	1,332	1,431	1,586	1,116	1,422	1,498	1,116	997	996
E.	Wire Rods	46	412	466	434	447	501	593	454	482	659
F.	Hot Rolled Strip	105(4)	140(4)	239(4)	250(4)	255	341	309	180	226	194
G.	Plates	478	656	620	764	416	642	625	560	412	403
H.	Sheets										
	1. Hot Rolled Sheets and Coils	..									
	2. Cold Rolled Sheets and Coils	..									
	3. Electrical Sheets	..									
	4. Galvanised Sheets	..									
	5. Other Coated Sheets	..									
	6. Total	887	1,003	998	1,129	1,176	1,372	1,474	998	1,030	909
I.	Tinplate and Black Plate	236	213	258	303	229	272	340	224		271
J.	Forgings	Incl. in B				..	..	..	..		..
K.	Wheels and Axles	Incl. in B		54	15	20	..	..	..	..	..
L.	Steel Tubes and Fittings	388(2)	444	353	320	373	394	347	181	183	204
M.	Drawn Wire and Wire Products	253(3)				..	..	..	..	..	..
N.	Cold Rolled Strip	72(1)	90(1)	100(1)	100(1)	99	85	80	70	99	100
O.	Cold Drawn Bars					..	..	..	..	..	..
P.	Total All Reported Products	3,808	4,483	4,893	5,339	4,474	5,216	5,469	4,570	3,840	3,836

II. SPECIAL STEELS

Q.	Total All Products	104	84	129	98	98	114	164	56	115	79

III. SUMMARY

R.	Total All Groups	3,911	4,567	5,022	5,437	4,572	5,330	5,633	4,626	3,955	3,915

(1) Most strip imports are included in H. (2) In the calculations, imports and exports of fittings are not included. (3) In the calculations, imports and exports of wire products are not included. (4) Exports of cold rolled strip are included.

TABLE 21B

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumption: Total Deliveries + Imports - Exports)

Broad Definition of the Steel Industry

Thousand metric tons

BRAZIL

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes	-	-	-	-	-	-	-	-	-	-
B.	Ingots and Semi-Finished Material		65	151	195	157	291	319	315	397	327
C.	Railway Track Material		91	124	147	145	177	192	380	246	166
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals		160	253							469
	2. Light Sections		571	535	361	318	457	810	670	588	-
	3. Hot Rolled Bars other than Concrete Reinforcing Bars										
	4. Concrete Reinforcing Bars		531	560	1,239	1,263	1,259	1,664	1,632	1,732	1,642
	5. Total D1 - D4		1,262	1,348	1,600	1,580	1,716	2,474	2,302	2,320	2,111
E.	Wire Rods		329	448	184	162	255	308	172	209	206
F.	Hot Rolled Strip		1	-5	-	-	-	-	-	-	-
G.	Plates		320	422	514	561	944	1,610	1,509	1,080	1,299
H.	Sheets										
	1. Hot Rolled Sheets and Coils				878	985	1,106	1,640	1,146	1,001	1,246
	2. Cold Rolled Sheets and Coils		950	1,083	845	844	955	1,516	1,141	1,196	1,467
	3. Electrical Sheets		29	26	28	33	40	49	47	54	60
	4. Galvanised Sheets		48	64	61	75	125	226	116	106	127
	5. Other Coated Sheets		3	19	30	25	41	65	37	107	156
	6. Total		1,030	1,192	1,842	1,964	2,266	3,495	2,487	2,464	3,056
I.	Tinplate and Black Plate		261	297	315	293	430	479	525	471	578
J.	Forgings			17	32	40	57	75	87	78	60
K.	Wheels and Axles									-	
L.	Steel Tubes and Fittings		168	166	183	150	146	213	278	177	195
M.	Drawn Wire and Wire Products		48	33	376	380	454	556	686	592	756
N.	Cold Rolled Strip										
O.	Cold Drawn Bars										
P.	Total All Reported Products		3,575	4,193	5,387	5,432	6,735	9,721	8,741	8,032	8,753

II. SPECIAL STEELS (1)

Q.	Total All Products		217	526	(596)	(247)	(348)	(516)	(523)	(518)	(452)

III. SUMMARY

R.	Total All Groups		3,792	4,719	5,387	5,432	6,735	9,721	8,741	8,032	8,753

(1) From 1971 included in lines A - P

TABLE 21C

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumption: Total Deliveries + Imports - Exports)

Broad Definition of the Steel Industry

Thousand metric tons

CANADA

I. CARBON STEEL GRADES (Includes Alloy)

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes Included in B	--	--	--	--	--	--	--	--	--	--
B.	Ingots and Semi-Finished Material	319	590	334	257	252	280	355	410	256	227
C.	Railway Track Material	265	338	421	320	199	260	300	256	179	183
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	663	749	798	644	684	821	983	702	607	415
	2. Light Sections	)									1,075
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 1,765	1,810	1,658	1,670	1,871	2,110	2,440	1,449	1,439	517
	4. Concrete Reinforcing Bars	)									
	5. Total D1 - D4	2,428	2,559	2,456	2,314	2,555	2,931	3,423	2,151	2,046	2,007
E.	Wire Rods	636	650	614	630	760	832	957	643	556	569
F.	Hot Rolled Strip (inc in H1)	--	--	--	--	--	--	--	--	--	--
G.	Plates	1,178	1,196	1,342	1,184	1,310	1,347	1,676	1,515	980	942
H.	Sheets										
	1. Hot Rolled Sheets and Coils	1,400	1,570	1,549	1,836	2,142	2,447	2,641	2,035	1,919	2,074
	2. Cold Rolled Sheets and Coils	1,413	1,565	1,497	1,611	1,674	1,834	1,956	1,494	1,523	1,482
	3. Electrical Sheets Incl. in H2		-	-	-	-	-	-	-	-	-
	4. Galvanised Sheets	513	554	562	589	676	824	385	674	677	648
	5. Other Coated Sheets Incl. in H2	-	-	-	-	-	-	-	-	-	
	6. Total	3,326	3,689	3,608	4,036	4,491	5,105	5,482	4,203	4,119	4,204
I.	Tinplate and Black Plate Included in H2	-	-	-	-	-	-	-	-	-	-
J.	Forgings	--	--	--	--	--	--	--	--	--	--
K.	Wheels and Axles	--	--	--	--	--	--	--	--	--	--
L.	Steel Tubes and Fittings	1,195	1,051	987	1,065	1,273	1,226	843	959	1,102	777
M.	Drawn Wire and Wire Products	535	--	530	497	559	611	658	--	406	413
N.	Cold Rolled Strip Included in H2	-	-	-	-	-	-	--		--	-
O.	Cold Drawn Bars	77	96	77	70	INCLUDED IN D2			90	78	90
P.	Total All Reported Products	--	--	--	--	--	--	--	--	--	9,412

II. SPECIAL STEELS

Q.	Total All Products	--	--	--	--	--	--	--	--	--	

III. SUMMARY

R.	Total All Groups	--	--	--	--	--	--	--	--	--	

TABLE 21D

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumption: Total Deliveries + Imports - Exports)

Broad Definition of the Steel Industry

Thousand metric tons

JAPAN

I. CARBON STEEL GRADES		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes	0	0	0	0	0	0	0	0	0	
B.	Ingots and Semi-Finished Material	0	0	0	0	0	0	0	0	0	
C.	Railway Track Material	452	450	449	361	339	514	377	288	231	365
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	3,133	4,232	4,784	3,814	5,867	7,852	5,140	4,883	4,496	4,113
	2. Light Sections	2,962	3,422	3,497	3,113	3,489	4,214	3,349	2,867	3,092	2,911
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	6,605	7,396	8,109	8,220	9,875	11,859	9,497	8,011	7,483	8,560
	4. Concrete Reinforcing Bars (Included under Line D3)										
	5. Total D1 - D4	12,700	15,050	16,390	15,147	19,231	23,925	17,986	15,761	15,071	15,584
E.	Wire Rods	3,230	3,591	4,071	3,688	4,061	4,823	4,566	3,524	3,832	3,476
F.	Hot Rolled Strip Included in H1										
G.	Plates	7,292	9,008	10,725	8,412	10,203	13,517	14,090	12,326	9,213	8,230
H.	Sheets										
	1. Hot Rolled Sheets and Coils	1,550	3,161	5,033	3,339	5,330	6,173	5,054	5,000	4,809	4,928
	2. Cold Rolled Sheets and Coils	4,315	5,197	5,877	4,254	5,916	7,274	6,436	6,054	7,020	6,727
	3. Electrical Sheets	433	561	616	547	602	779	690	424	702	650
	4. Galvanised Sheets	1,962	2,538	2,659	2,444	2,932	3,891	3,837	2,935	3,481	3,475
	5. Other Coated Sheets (Included in H2					201	334	330	310	470	516
	6. Total	8,260	11,457	14,185	10,584	14,981	18,451	16,347	14,723	16,482	16,296
I.	Tinplate and Black Plate	624	744	807	840	907	1,013	943	739	965	956
J.	Forgings	279	335	408	335	322	398	397	325	274	242
K.	Wheels and Axles	59	36	27	33	20	52	53	44	54	53
L.	Steel Tubes and Fittings	3,508	3,983	4,589	3,665	4,440	6,007	5,197	3,742	2,735	3,247
M.	Drawn Wire and Wire Products	(1,507)	(1,631)	(1,851)	(1,760)	(2,078)	(2,527)	(2,132)	(1,935)	(2,038)	(2,024)
N.	Cold Rolled Strip	102	105	85	108	120	122	107	33	35	Line C2
O.	Cold Drawn Bars	(427)	(536)	(613)	(493)	(526)	(639)	(518)	(386)	(453)	(330)
P.	Total All Reported Products	35,796	43,906	50,875	42,130	53,652	67,905	59,042	50,884	48,084	47,611

II. SPECIAL STEELS

Q.	Total All Products	4,914	6,088	6,795	5,990	6,562	8,405	8,259	6,541	7,852	8,288

III. SUMMARY

R.	Total All Groups	40,710	49,994	57,670	48,120	60,214	76,310	67,301	57,425	55,936	55,899

TABLE 21E APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

Broad definition of the Steel Industry

Thousand metric tons

REP. OF SOUTH AFRICA

I. CARBON STEEL GRADES	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	
A. Solids for Seamless Tubes						34.9	40.9	42.3	31.3	24.0	
B. Ingots and Semi-Finished Material						107.8	131.6	227.9	60.6	74.1	
C. Railway Track Material						293.0	348.2	500.6	350.8	173.3	
D. Structurals and Bar Mill Products											
1. Heavy Structurals						279.1	398.1	446.9	415.5	370.0	
2. Light Sections						388.9	405.5	200.6	205.8	- 14.7	
3. Hot Rolled Bars other than Concrete Reinforcing Bars	---------- Not		Available		----------	238.5	172.3	413.2	307.8	265.5	
4. Concrete Reinforcing Bars						437.1	390.6	443.1	480.9	439.7	
5. Total D1 - D4						1,34[illegible].6	1,366.5	1503.8	1,410.0	1,060.5	
E. Wire Rods						232.7	285.1	271.8	203.5	70.7	
F. Hot Rolled Strip						197.5	229.1	190.8	43.6	28.3	
G. Plates						507.3	599.1	781.9	444.5	409.7	
H. Sheets											
1. Hot Rolled Sheets and Coils						410.5	523.7	620.4	490.2	589.3	
2. Cold Rolled Sheets and Coils						360.2	448.6	316.4	394.7	351.7	
3. Electrical Sheets						-	-	-	-	-	
4. Galvanised Sheets						359.7	372.0	290.8	258.0	247.7	
5. Other Coated Sheets						10.9	14.4	5.6	7.7	-16.7	
6. Total						1,121.3	1,358.7	1,233.2	1,150.6	1,172.0	
I. Tinplate and Black Plate						209.9	227.2	238.0	243.0	173.5	
J. Forgings						22.8	16.0	27.1	29.6	21.5	
K. Wheels and Axles						-	-	-	-	-	
L. Steel Tubes and Fittings						-	-	-	-	-	
M. Drawn Wire and Wire Products						120.2	148.7	145.9	4.8	-	
N. Cold Rolled Strip						14.0	27.3	16.8	20.8	10.5	
O. Cold Drawn Bars						-	-	-	-	-	
P. Total All Reported Products						4,205.0	4,778.4	5,180.1	3,993.1	3,376.7	
II. SPECIAL STEELS											
Q. Total All Products						77.1	102.4	82.5	65.8	9.9	
III. SUMMARY											
R. Total All Grades						4,282.1	4,880.8	5,262.6	4,058.9	3,386.6	

TABLE 21F APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption: Total Deliveries + Imports - Exports)

Broad Definition of the Steel Industry — Thousand metric tons — **UNITED KINGDOM**

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes				9	9	7	-	-	-	-
B.	Ingots and Semi-Finished Material	270	289	349	392	416	496	356	347	333	314
C.	Railway Track Material	216	209	219	212	193	191	225	235	144	157
D.	Structurals and Bar Mill Products										
	1. Heavy Bars	206	243		116	141	139	163	162	92	88
	2. Heavy Structurals	1,682	1,805	1,838	1,359	1,476	1,753	1,635	1,168	1,195	1,207
	3. Light Sections			181	1,032	587	735	623	621	577	517
	4. Hot Rolled Bars other than Concrete Reinforcing Bars	2,055	2,148	2,325	530	999	1,146	1,074	872	933	821
	5. Concrete Reinforcing Bars				985	1,100	1,259	1,105	824	910	768
	6. Total D1 - D4	3,943	4,196	4,344	4,022	4,303	5,031	4,600	3,647	3,707	3,400
E.	Wire Rods	1,628	1,682	1,866	1,110	1,154	1,260	1,226	1,054	1,064	1,016
F.	Hot Rolled Strip	500	527	541	447	471	512	517	332	420	385
G.	Plates	2,820	3,185	3,323	2,401	2,457	2,881	2,892	2,560	2,258	2,338
H.	Sheets										
	1. Hot Rolled Sheets and Coils			207	137	398	391	269	196	252	314
	2. Cold Rolled Sheets and Coils	2,741	2,871	2,475	2,372	2,477	2,657	2,287	1,801	2,349	1,977
	3. Electrical Sheets			246	189	187	241	241	178	204	201
	4. Galvanised Sheets	431	513	358	379	487	509	502	309	534	385
	5. Other Coated Sheets			149	142	194	239	271	155	228	252
	6. Total	3,172	3,383	3,436	3,218	3,743	4,037	3,570	2,639	3,566	3,129
I.	Tinplate and Black Plate	927	1,009	967	964	894	986	1,000	810	995	986
J.	Forgings	62	58	53	51	38	27	24	23	31	14
K.	Wheels and Axles	40	41	41	38	36	30	27	46	38	33
L.	Steel Tubes and Fittings	1,022	1,090	1,152	1,202	1,175	1,471	1,667	1,594	1,120	1,050
M.	Drawn Wire and Wire Products	..	..	..	..	..	..	..	..	..	..
N.	Cold Rolled Strip	520	569	448	398	424	504	506	312	404	394
O.	Cold Drawn Bars	491	550	481	362	378	550	537	394	422	436
P.	Total All Reported Products	15,610	16,788	17,218	14,824	15,690	17,982	17,147	13,991	14,502	13,652

II. SPECIAL STEELS

Q.	Total All Products	1,043	1,205	1,211	1,055	1,076	1,288	1,304	1,069	1,120	1,149

III. SUMMARY

R.	Total All Groups	16,653	17,993	18,429	15,880	17,766	19,270	18,451	15,060	15,621	14,801

TABLE 21G APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption: Total Deliveries + Imports - Exports)

Broad definition of the Steel Industry — Thousand metric tons — **U. S. A.**

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes	14	26	-	-	-	-				-
B.	Ingots and Semi-Finished Material	2,497	3,593	4,326	2,302	1,863	2,290	2,137	1,323	1,239	1,059
C.	Railway Track Material	948	984	1,041	1,065	1,090	1,121	1,190	1,363	1,480	1,446
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	6,443	6,361	5,979	5,954	6,093	6,761	6,638	4,741	4,540	5,042
	2. Light Sections	)			1,046	1,179	1,346	1,345	4,738	894	1,136
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 7,079	6,853	6,429	5,715	6,374	6,969	6,984	1,031	5,271	6,067
	4. Concrete Reinforcing Bars	3,588	3,667	4,543	4,528	4,342	4,771	4,722	3,389	3,603	3,800
	5. Total D1 - D4	17,110	16,882	16,951	17,243	17,988	19,847	19,689	13,929	14,308	16,045
E.	Wire Rods	2,539	2,411	2,248	2,677	2,763	2,889	3,213	2,030	2,522	2,622
F.	Hot Rolled Strip	1,346	1,264	878	1,222	1,054	1,458	939	793	864	907
G.	Plates	8,072	7,256	6,925	7,370	7,135	8,286	9,310	7,379	6,455	7,163
H.	Sheets										
	1. Hot Rolled Sheets and Coils	12,487	12,019	11,729	12,516	14,152	16,112	14,470	10,765	14,479	14,764
	2. Cold Rolled Sheets and Coils	17,065	16,049	14,404	16,407	17,161	20,243	18,199	12,237	18,192	18,500
	3. Electrical Sheets	64	80	69	67	82	106	124	73	72	78
	4. Galvanised Sheets	5,453	5,257	5,110	5,809	6,123	7,186	6,528	3,964	5,920	6,776
	5. Other Coated Sheets	525	518	524	580	676	907	933	553	817	931
	6. Total	35,594	33,923	31,836	35,379	38,194	44,554	40,254	28,592	39,480	41,050
I.	Tinplate and Black Plate	6,513	5,867	6,491	6,289	5,735	6,599	6,602	5,289	5,758	5,872
J.	Forgings										
K.	Wheels and Axles	347	388	376	350	323	376	410	394	298	347
L.	Steel Tubes and Fittings	8,544	7,974	7,390	7,217	6,899	8,014	8,430	6,734	5,895	7,349
M.	Drawn Wire and Wire Products	3,906	3,753	3,425	3,311	3,497	3,640	3,649	2,423	2,828	2,905
N.	Cold Rolled Strip	1,071	944	819	805	877	1,064	1,083	612	779	805
O.	Cold Drawn Bars	1,376	1,462	1,160	1,094	1,363	1,708	1,717	1,120	1,264	1,414
P.	Total All Reported Products	89,877	86,725	83,865	86,323	88,781	101,847	98,623	71,981	83,169	88,983

II. SPECIAL STEELS

Q.	Total All Products	8,010	7,828	6,962	7,270	8,081	9,695	10,455	9,068	8,308	9,132	

III. SUMMARY

R.	Total All Groups	97,887	94,553	90,827	93,563	96,862	111,542	109,078	81,049	91,478	98,116	May 10, 1978

TABLE 21H

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumption: Total Deliveries + Imports - Exports)

Broad Definition of the Steel Industry

Thousand metric tons

VENEZUELA

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	
A.	Solids for Seamless Tubes	218	-	-	-	-	-		-		
B.	Ingots and Semi-Finished Material	5	205	170	84	248	202	-	-		
C.	Railway Track Material	2	2	1	3	3	6	4	7		
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	68	52	51	64	90	79	86	115		
	2. Light Sections	)	41	33	50	60	56	64	78		
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 51	4	2	8	3	2	-	-		
	4. Concrete Reinforcing Bars	222	220	276	303	346	428	568	434		
	5. Total D1 - D4	341	317	362	425	499	565	718	627		
E.	Wire Rods	32	28	40	44	62	98	138	123		
F.	Hot Rolled Strip	4	1	1	1	1	-	-	-		
G.	Plates	38	82	96	108	108	68	122	148		
H.	Sheets										
	1. Hot Rolled Sheets and Coils	) 190	59	63	66	82	182	161	286		
	2. Cold Rolled Sheets and Coils	)	79	91	97	106	118	276	316		
	3. Electrical Sheets		1	1	1	1	-	-	-		
	4. Galvanised Sheets	12	38	43	45	52	53	-	-		
	5. Other Coated Sheets	8	11	20	23	29	46	43	47		
	6. Total	210	188	218	322	270	399	480	649		
I.	Tinplate and Black Plate	65	80	97	79	101	97	85	101		
J.	Forgings	4	-	-	-	-	-	-	-		
K.	Wheels and Axles	-	-	-	-	-	-	-	-		
L.	Steel Tubes and Fittings	194	195	193	186	115	103	186	156		
M.	Drawn Wire and Wire Products	51	55	51	40	45	45	28	34		
N.	Cold Rolled Strip		2	1	1	2	-	-	-		
O.	Cold Drawn Bars	-	-	-	-	-	-	-	-		
P.	Total All Reported Products	1,166	1,155	1,230	1,293	1,454	1,583	1,761	1,845		

II. SPECIAL STEELS

Q.	Total All Products		15	18	21	24	47	63	-		

III. SUMMARY

R.	Total All Groups		1,170	1,248	1,314	1,478	1,630	1,824	1,845		

TABLE 21 I

APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

AUSTRIA

Narrow definition of the Steel Industry

Thousand metric tons

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes			--	--	--	--	--	--	--	--
B.	Ingots and Semi-Finished Material	22	31	33	30	18	20	151	148	219	294
C.	Railway Track Material	26	30	32	38	35	39	47	49	41	47
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	70	74	108	109	111	119	118	86	101	107
	2. Light Sections 3. Hot Rolled Bars other than Concrete Reinforcing Bars	174	192	171	187	169	206	227	116	174	142
	4. Concrete Reinforcing Bars	155	152	179	247	258	284	311	208	229	301
	5. Total D1 - D4	399	418	458	543	537	608	656	410	504	550
E.	Wire Rods	191	208	241	248	264	305	323	209	311	261
F.	Hot Rolled Strip	90	107	114	113	131	221	194	124	161	148
G.	Plates	258	335	409	364	340	391	485	332	372	360
H.	Sheets										
	1. Hot Rolled Sheets and Coils	84	115	146	114	137	143	131	60	131	102
	2. Cold Rolled Sheets and Coils	137	156	198	189	198	264	258	155	197	196
	3. Electrical Sheets	6	7	9	10	9	11	11	10	21	20
	4. Galvanised Sheets	36	41	44	49	68	79	72	66	84	90
	5. Other Coated Sheets	.	.	2	3	6	6	9	8	6	8
	6. Total	263	319	399	365	418	503	481	299	439	416
I.	Tinplate and Black Plate	24	24	28	25	30	32	34	27	31	34
J.	Forgings										
K.	Wheels and Axles										
L.	Steel Tubes and Fittings										
M.	Drawn Wire and Wire Products										
N.	Cold Rolled Strip	35	39	45	40	44	(53)	(51)	(33)	(49)	(55)
O.	Cold Drawn Bars										
P.	Total All Reported Products	1,308	1,511	1,759	1,766	1,824	2,124	2,266	1,543	1,994	2,067

II. SPECIAL STEELS

Q.	Total All Products	164	203	260	229	201	238	256	178	182	205

III. SUMMARY

R.	Total All Groups	1,472	1,714	2,019	1,995	2,025	2,362	2,522	1,721	2,176	2,272

TABLE 21J

APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

BELGIUM / LUXEMBURG

Narrow Definition of the Steel Industry

Thousand metric tons

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976
A.	Solids for Seamless Tubes	48	64	63	58	49	55	) 247	) 73	
B.	Ingots and Semi-Finished Material	131	153	919	138	125	167	)	)	
C.	Railway Track Material	59	37	50	41	20	30	68	102	
D.	Structurals and Bar Mill Products									
	1. Heavy Structurals	331	500	458	356	297	298	382	145	
	2. Light Sections	) 105	169	139	285	274	152	340	269	
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	)								
	4. Concrete Reinforcing Bars	408	549	422	414	399	596	433	453	
	5. Total D1 - D4	844	1,218	1,019	1,055	970	1,046	1,155	867	
E.	Wire Rods	772	731	768	720	768	746	823	397	
F.	Hot Rolled Strip	388	576	478	552	484	446	551	294	
G.	Plates	268	326	254	148	202	278	271	123	
H.	Sheets									
	1. Hot Rolled Sheets and Coils	283	384	496	257	370	483	526	260	
	2. Cold Rolled Sheets and Coils	409	567	330	604	518	571	605	427	
	3. Electrical Sheets	64	78	76	67	81	80	85	60	
	4. Galvanised Sheets	) 59	90	88	97	146	125	78	70	
	5. Other Coated Sheets	)								
	6. Total	815	1,119	1,190	1,025	1,115	1,259	1,294	817	
I.	Tinplate and Black Plate	96	102	116	163	110	135	149	134	
J.	Forgings	--	--	--	--	--	--	--	--	
K.	Wheels and Axles	--	--	--	--	--	--	--	--	
L.	Steel Tubes and Fittings	--	--	--	--	--	--	--	--	
M.	Drawn Wire and Wire Products	--	--	--	--	--	--	--	--	
N.	Cold Rolled Strip	--	--	--	--	--	--	--	--	
O.	Cold Drawn Bars	--	--	--	--	--	--	--	--	
P.	Total All Reported Products	3,421	4,326	4,155	3,900	3,843	4,162	4,558	2,807	

II. SPECIAL STEELS

Q.	Total All Products	149	201	270	269	328	316	444	352	

III. SUMMARY

R.	Total All Groups	3,570	4,527	4,425	4,169	4,171	4,478	5,002	3,159	

TABLE 21K

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumption: Total Deliveries + Imports - Exports)

Narrow Definition of the Steel Industry

Thousand metric tons

FRANCE

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	
A.	Solids for Seamless Tubes	488	566	526	567	515	526	533	560	511	469	
B.	Ingots and Semi-Finished Material	189	199	221	227	225	182	241	229	178	329	
C.	Railway Track Material	233	214	224	227	243	197	202	196	199	123	
D.	Structurals and Bar Mill Products											
	1. Heavy Structurals	1,016	1,265	1,387	1,166	1,333	1,414	1,334	961	1,206	906	
	2. Light Sections										1,467	
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	2,839	3,342	3,455	3,010	3,229	3,415	3,095	2,609	1,687		
	4. Concrete Reinforcing Bars									1,144	1,081	
	5. Total D1 - D4	3,855	4,607	4,842	4,176	4,562	4,829	4,429	3,570	4,037	3,454	
E.	Wire Rods	1,043	1,323	1,265	1,211	1,330	1,503	1,646	1,189	1,355	1,196	
F.	Hot Rolled Strip	1,028	1,246	1,299	1,233	1,393	1,486	1,540	949	1,315	1,106	
G.	Plates	2,476	3,228	3,196	3,132	3,233	3,824	4,042	2,912	3,297	3,016	
H.	Sheets											
	1. Hot Rolled Sheets and Coils	366	534	570	462	565	598	579	318	1,225	1,058	
	2. Cold Rolled Sheets and Coils	2,115	2,677	2,684	2,753	2,948	3,379	3,241	2,749	3,482	3,020	
	3. Electrical Sheets	117	137	135	140	154	183	187	132	151	114	
	4. Galvanised Sheets	338	483	387	382	488	521	457	370	456		
	5. Other Coated Sheets	81	134	139	172	232	261	199	182	302	728	
	6. Total	2,917	3,965	3,915	3,909	4,387	4,942	4,663	3,751	5,616	4,920	
I.	Tinplate and Black Plate	411	451	462	508	502	532	603	430	562	707	
J.	Forgings											
K.	Wheels and Axles											
L.	Steel Tubes and Fittings											
M.	Drawn Wire and Wire Products											
N.	Cold Rolled Strip											
O.	Cold Drawn Bars											
P.	Total All Reported Products	12,740	15,799	15,950	15,190	16,390	18,021	17,899	13,786	17,070	15,320	

II. SPECIAL STEELS

Q.	Total All Products	1,394	1,782	1,095	1,766	1,840	2,141	2,188	1,818	1,997	2,340	

III. SUMMARY

R.	Total All Groups	14,134	17,581	17,945	16,956	18,230	20,162	20,087	15,604	19,067	17,660	

TABLE 21L APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

Narrow Definition of the Steel Industry

Thousand metric tons

F.R. GERMANY

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	
A.	Solids for Seamless Tubes	-	1,961	2,008	1,544	1,612	1,936	2,187	1,970	1,880	1,765	
B.	Ingots and Semi-Finished Material	(3,107)	977	1,019	824	731	1,012	1,139	943	904	821	
C.	Railway Track Material	288	348	431	360	326	429	450	419	346	333	
D.	Structurals and Bar Mill Products											
	1. Heavy Structurals	1,796	2,250	2,403	1,911	2,124	2,200	1,804	1,640	1,988	1,759	
	2. Light Sections	)	)									
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 4,293	) 3,139	3,437	2,404	2,550	2,806	2,329	2,191	2,468	2,149	
	4. Concrete Reinforcing Bars	)	2,124	1,922	2,317	2,420	2,432	1,950	1,940	1,813	1,650	
	5. Total D1 - D4	6,089	7,513	7,762	6,632	7,094	7,438	6,083	5,771	6,269	5,558	
E.	Wire Rods	2,762	2,927	2,986	2,981	3,179	3,333	3,095	2,501	2,850	2,631	
F.	Hot Rolled Strip	2,498	2,809	2,683	2,450	2,662	2,893	2,605	1,790	2,316	2,038	
G.	Plates	3,911	5,519	5,303	4,687	4,957	5,318	5,376	4,940	4,938	4,533	
H.	Sheets											
	1. Hot Rolled Sheets and Coils	187	668	690	672	1,012	1,207	1,240	853	1,075	1,170	
	2. Cold Rolled Sheets and Coils	3,560	4,121	4,213	4,019	4,227	4,463	3,382	3,075	4,116	4,128	
	3. Electrical Sheets	270	328	339	281	307	369	365	297	364	327	
	4. Galvanised Sheets	)										
	5. Other Coated Sheets	) 426	596	626	664	935	966	702	776	1,068	1,113	
	6. Total	4,443	5,713	5,868	5,636	6,481	7,005	5,689	5,001	6,623	6,738	
L	Tinplate and Black Plate	563	615	626	626	616	656	706	366	516	487	
J.	Forgings										.	
K.	Wheels and Axles										.	
L.	Steel Tubes and Fittings										.	
M.	Drawn Wire and Wire Products										.	
N.	Cold Rolled Strip										.	
O.	Cold Drawn Bars										.	
P.	Total All Reported Products	20,554	28,382	28,686	23,548	25,628	27,157	23,265	20,168	23,721	22,506	

II. SPECIAL STEELS

Q.	Total All Products	1,721	3,671	4,045	3,948	4,183	4,537	4,761	4,489	4,535	4,571	

III. SUMMARY

R.	Total All Groups	22,275	32,053	32,731	27,496	29,811	31,694	28,026	24,657	28,256	27,077	

TABLE 21M APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption: Total Deliveries + Imports - Exports)

Narrow Definition of the Steel Industry

Thousand metric tons

ITALY

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	
A.	Solids for Seamless Tubes	941	874	905	783	879	854	955	848		
B.	Ingots and Semi-Finished Material	240	230	239	206	328	280	314	461		
C.	Railway Track Material	139	136	145	185	186	178	162	158		
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	582	613	712	558	607	780	684	444		
	2. Light Sections										
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	1,620	1,695	1,642	1,471	1,544	2,111	2,215	1,775		
	4. Concrete Reinforcing Bars	2,252	2,390	2,315	2,293	2,727	3,136	3,188	3,026		
	5. Total D1 - D4	4,454	4,698	4,669	4,322	4,878	6,027	6,087	5,245		
E.	Wire Rods	547	607	656	605	650	792	977	872		
F.	Hot Rolled Strip	853	951	947	849	1,052	1,141	1,189	676		
G.	Plates	1,994	2,745	2,485	2,304	2,436	3,337	3,711	3,212		
H.	Sheets										
	1. Hot Rolled Sheets and Coils	702	917	615	646	734	788	737	821		
	2. Cold Rolled Sheets and Coils	1,989	2,357	2,328	2,175	2,584	2,957	2,971	2,034		
	3. Electrical Sheets	138	143	165	146	153	163	182	113		
	4. Galvanised Sheets	285	364	392	320	441	537	454	358		
	5. Other Coated Sheets	12	17	25	17	20	40	62	46		
	6. Total	3,126	3,798	3,525	3,304	3,932	4,485	4,406	3,372		
I.	Tinplate and Black Plate	336	405	487	424	387	474	587	357		
J.	Total (lines A - I)			14,058	12,982	14,728	17,568	18,388	15,201		
K.	Wheels and Axles	(30)	(21)	(25)	(29)	(41)	(26)	(25)	(28)		
L.	Steel Tubes and Fittings	(1,369)	(1,568)	(1,719)	(1,484)	(1,610)	(1,795)	(1,962)	(2,199)		
M.	Drawn Wire and Wire Products	(606)	(660)	(734)	(639)	(696)	(812)	(767)	(749)		
N.	Cold Rolled Strip	(504)	(565)	(593)	(549)	(586)	(571)	(611)	(407)		
O.	Cold Drawn Bars	(328)	(351)	(400)	(340)	(338)	(418)	(450)	(299)		
P.	Total All Reported Products	12,045	14,056	13,884	12,562	14,162	16,937	17,357	13,521		

II. SPECIAL STEELS

Q.	Total All Products	1,734	1,869	1,924	1,949	2,006	2,312	2,581	1,867		

III. SUMMARY

R.	Total All Groups	13,779	15,925	15,808	14,511	16,168	19,249	19,938	15,388		

TABLE 21N APPARENT CONSUMPTION OF STEEL BY PRODUCTS (Apparent Consumption = Total Deliveries + Imports - Exports)

Narrow Definition of the Steel Industry — Thousand metric tons — **NETHERLANDS**

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes		-	-	-	-	-	-	-	-	-
B.	Ingots and Semi-Finished Material		-	-	-	-	-	-	-	-	-
C.	Railway Track Material		39	46	46	42	39	49	42	40	36
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals		381	458	364	364	390	415	369	427	407
	2. Light Sections		377	395	138	134	155	144	122	110	136
	3. Hot Rolled Bars other than Concrete Reinforcing Bars				164	164	191	207	148	137	173
	4. Concrete Reinforcing Bars		453	484	413	365	377	329	310	310	332
	5. Total D1 - D4		1,211	1,337	1,079	1,027	1,113	1,095	949	984	1,048
E.	Wire Rods		246	237	257	290	281	308	278	316	303
F.	Hot Rolled Strip		227	199	171	209	222	213	161	228	175
G.	Plates		733	765	672	679	771	889	758	548	538
H.	Sheets										
	1. Hot Rolled Sheets and Coils		21	31	27	27	31	24	14	9	14
	2. Cold Rolled Sheets and Coils		518	508	528	652	678	571	417	594	491
	3. Electrical Sheets		6	6	5	5	3	4	10	11	19
	4. Galvanised Sheets									118	94
	5. Other Coated Sheets		66	65	74	96	121	110	96	19	34
	6. Total		611	610	634	780	833	709	537	751	652
I.	Tinplate and Black Plate		257	261	238	256	255	304	213	265	241
J.	Forgings				--	--	--	--	--	--	--
K.	Wheels and Axles				--	--	--	--	--	--	--
L.	Steel Tubes and Fittings				(644)	(582)	(633)	--	--	--	--
M.	Drawn Wire and Wire Products				(302)	(286)	(1) (264)	(1)	--	--	--
N.	Cold Rolled Strip							--	--	--	--
O.	Cold Drawn Bars							--	--	--	--
P.	Total All Reported Products		3,324	3,455	--	--	--	--	--	--	--

II. SPECIAL STEELS

Q.	Total All Products		(2)	(2)	(2)	(2)	(2)	(2)	(2)	--	--

III. SUMMARY

R.	Total All Groups		3,324	3,455	--	--	--	--	--	--	--

(1) No ECSC products - figures unreliable (2) Included in Lines A - P -- Not Available

TABLE 21 O

APPARENT CONSUMPTION OF STEEL BY PRODUCTS

(Apparent Consumtion: Total Deliveries + Imports - Exports)

SPAIN

Narrow definition of the Steel Industry

Thousand metric tons

I. CARBON STEEL GRADES

		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
A.	Solids for Seamless Tubes	135	109	196	207	260	193	176	235	193	171
B.	Ingots and Semi-Finished Material	80	(1,059)	6	43	8	51	50	49	74	34
C.	Railway Track Material	106	115	111	83	126	133	56	83	60	95
D.	Structurals and Bar Mill Products										
	1. Heavy Structurals	953	1,178	727	787	825	1,635	1,050	625	405	466
	2. Light Sections	)		193	107	) 445	196	295	188	173	172
	3. Hot Rolled Bars other than Concrete Reinforcing Bars	) 194	) 1,648	490	253	)	) 1,653	884	990	916	888
	4. Concrete Reinforcing Bars	761	)	753	902	919	)	1,119	711	976	687
	5. Total D1 - D4	2,208	2,826	2,163	2,049	2,189	2,884	3,348	2,513	2,471	2,212
E.	Wire Rods	616	638	706	680	721	827	612	517	609	673
F.	Hot Rolled Strip	231	182	103	119	359	362	348	215	314	276
G.	Plates	758	886	932	753	794	1,097	1,533	1,344	801	803
H.	Sheets										
	1. Hot Rolled Sheets and Coils	701	354	702	720	970	955	754	1,091	1,213	1,290
	2. Cold Rolled Sheets and Coils	915	826	787	629	1,052	1,085	1,244	944	977	1,212
	3. Electrical Sheets	52	52	50	49	63	75	88	56	60	55
	4. Galvanised Sheets	74	51	77	64	83	95	173	126	207	162
	5. Other Coated Sheets	32		-	-	-	-	39	23	32	34
	6. Total	1,774	1,283	1,617	1,462	2,168	2,190	2,292	2,240	2,489	2,754
I.	Tinplate and Black Plate	273	301	246	239	285	311	344	312	298	369
J.	Forgings	(73)	97	82	75	84	88	96	109	82	73
K.	Wheels and Axles	23	24	23	26	27	23	28	21	18	19
L.	Steel Tubes and Fittings	(107)	(155)	(95)	(75)	(337)	(..)	(..)	(..)	(--)	(..)
M.	Drawn Wire and Wire Products	109	(98)	(130)	(114)	(616)	(..)	(..)	(..)	(--)	(..)
N.	Cold Rolled Strip	125	94	94	97	(154)	(..)	(..)	(..)	(--)	(..)
O.	Cold Drawn Bars	15		26	(18)	(177)	(..)	(..)	(..)	(--)	(..)
P.	Total All Reported Products	6,204	6,555	6,280	5,833	7,020	8,160	8,883	7,638	7,409	7,479

II. SPECIAL STEELS

Q.	Total All Products	(824)	(689)	(943)	(828)	(1,020)	(1,269)	(1,461)	(1,278)	(1,256)	(1,246)

III. SUMMARY

R.	Total All Groups	6,204	6,555	6,280	5,833	(7,020)	8,160	8,883	7,638	7,409	7,479

TABLE 22

INDIRECT STEEL EXPORTS BY ORIGIN 1962, 1965, 1970, 1973 and 1976

Note: figures on first line of each country - excluding ships;
second line, in parentheses, - including ships

Country/ Area of Origin	Million tons of finished steel					Per cent of total				
	1962	1965	1970	1973	1976	1962	1965	1970	1973	1976
Japan	1.1 (1.8)	1.7 (3.5)	4.5 (8.1)	7.8 (13.1)	10.2 (15.9)	8 (11)	10 (16)	10 (23)	22 (29)	23 (29)
Germany	3.4 (3.8)	4.4 (4.9)	6.6 (7.1)	7.8 (8.6)	9.1 (9.9)	25 (23)	26 (23)	23 (20)	22 (19)	20 (18)
North America	1.9 (2.1)	2.0 (2.2)	2.9 (3.1)	3.5 (4.0)	5.4 (5.8)	14 (13)	11 (10)	11 (9)	10 (9)	12 (10)
United Kingdom	3.0 (3.5)	3.3 (3.8)	3.8 (4.4)	4.2 (4.7)	4.7 (5.4)	22 (21)	19 (18)	13 (12)	12 (10)	10 (10)
France	1.3 (1.5)	1.5 (1.7)	3.0 (3.4)	3.8 (4.3)	4.9 (5.6)	9 (9)	9 (8)	11 (10)	10 (9)	10 (10)
Italy	0.9 (1.0)	1.4 (1.6)	2.6 (2.8)	3.0 (3.3)	3.9 (4.2)	7 (6)	8 (7)	9 (8)	8 (7)	9 (8)
Belgium - Luxemburg	0.8 (0.8)	1.2 (1.2)	1.8 (1.9)	2.3 (2.4)	2.6 (2.7)	6 (5)	7 (6)	6 (5)	6 (5)	6 (5)
Sweden	0.5 (0.8)	0.6 (1.1)	1.1 (1.7)	1.3 (2.3)	1.3 (2.4)	3 (5)	3 (5)	4 (5)	4 (5)	3 (4)
Netherlands	0.3 (0.6)	0.5 (0.6)	0.9 (1.2)	1.2 (1.5)	1.5 (1.7)	2 (3)	3 (3)	3 (3)	3 (3)	3 (3)
Austria	0.2 (0.2)	0.3 (0.3)	0.4 (0.4)	0.5 (0.5)	0.6 (0.6)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)
Denmark	0.2 (0.2)	0.2 (0.3)	0.3 (0.6)	0.4 (0.8)	0.5 (0.9)	1 (1)	1 (1)	1 (1)	1 (1)	1 (2)
Switzerland	0.2 (0.2)	0.2 (0.2)	0.3 (0.3)	0.4 (0.4)	0.4 (0.4)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)
Total - excluding ships	13.7	17.2	28.2	36.0	45.0	100	100	100	100	100
Total - including ships	(16.5)	(21.2)	(34.9)	(45.8)	(55.4)					

(*) In this and subsequent tables figures may not add due to rounding

Indirect trade comprises trade in steel-containing manufactured products (such as machinery or vehicles), but not direct steel products of the steel industry broadly defined (such as wire rods, tubes or drawn wire).

TABLE 23

Indirect Steel Exports by Principal Destinations[1]

1962, 1970, 1973 and 1976 (excluding ships)

(Million tons of finished steel)

Country	1962	1970	1973	1976	Per cent of total			
					1962	1970	1973	1976
Belgium - Luxemburg	0.7	1.9	2.4	2.7	5	7	7	6
France	0.7	1.8	2.5	3.0	5	6	7	7
Germany	0.8	2.3	2.8	3.3	6	8	8	7
Italy	0.5	1.0	1.2	1.3	4	4	3	3
Netherlands	0.8	1.7	2.0	2.2	6	6	5	5
United Kingdom	0.3	0.8	1.6	1.8	2	3	5	4
Other EEC	0.5	0.8	1.0	1.0	3	3	3	2
Total EEC	4.1	10.4	13.6	15.4	30	37	38	34
Other Western Europe	2.3	4.1	5.2	5.5	17	15	14	12
Total Western Europe	6.5	14.5	18.7	20.9	48	52	52	46
North America	1.4	4.2	5.9	5.5	10	15	16	12
Latin America	1.6	2.3	2.5	3.4	12	8	7	8
Asia, Africa, Middle East and Oceania	3.8	6.6	8.0	13.3	28	23	22	30
Eastern Europe	0.3	0.6	0.8	2.0	3	2	2	4
TOTAL	13.6	28.1	36.0	45.0	100	100	100	100

(1) Exports by those countries/areas listed in Table 24 below

TABLE 24

Net Indirect Steel Trade Balances 1962, 1970, 1973 and 1976

Changes 1973 - 1976

Excluding ships

(Million tons of finished steel)

COUNTRY	Indirect Steel Trade Balance				NET CHANGE 1973 TO 1976
Japan	+1.0	+4.2	+7.5	+9.9	+2.4
Germany	+2.6	+4.2	+5.0	+5.6	+0.6
United Kingdom	+2.7	+3.0	+2.6	+2.7	+0.1
Italy	+0.4	+1.6	+1.7	+2.5	+0.8
France	+0.6	+1.2	+1.3	+1.6	+0.3
Sweden	-	+0.4	+0.6	-	-0.6
North America	-0.5	-1.2	-2.4	-0.1	+2.3
Denmark	-0.2	-0.2	-0.3	-0.2	+0.1
Switzerland	-0.3	-0.5	-0.5	-0.2	+0.3
Belgium - Luxemburg	+0.1	-0.1	-0.1	-0.3	-0.2
Austria	-0.1	-0.1	-0.2	-0.2	-
Netherlands	-0.4	-0.8	-0.8	-0.7	+0.1

TABLE 25

Changes in Indirect Steel Exports by Commodity Group (1)

1962, 1970, 1973 and 1976

Commodity Group	Million tons of finished steel			
	1962	1970	1973	1976
1. Intermediate Goods	1.1	1.9	2.4	2.5
2. Non-Electrical Machinery	3.6	7.0	8.4	10.5
3. Electrical Machinery and Equipment	0.7	1.5	1.7	2.4
4. Agricultural Machinery and Tractors	0.8	1.2	1.5	1.8
5. Rolling Stock	0.7	0.7	0.8	1.0
6. Passenger Cars	2.5(*)	5.4	7.6	8.0
7. Commercial Vehicles	1.1	2.4	3.5	5.0
8. Motor Vehicle Parts	0.5(*)	2.2	3.0	3.9
9. Domestic Appliances	0.3	0.8	1.1	1.1
10. Other Manufactures	2.4	5.2	6.1	8.8
Total (excluding ships)	13.7	28.3	36.1	45.0
Ships	2.8	6.7	9.7	10.3
Total (including ships)	16.5	35.0	45.8	55.4

(*) For 1962, motor vehicle parts exported from North America are included under passenger cars

(1) Exports of those countries/areas listed in Table 24 only

TABLE 26

Apparent Final Consumption of Steel - Total All Countries Examined (1)

1962, 1965, 1970, 1973 and 1976

(Million tons of finished steel)

	1962	1965	1970	1973	1976
Home Production	180.0	227.5	292.0	348.0	293.0
- Direct Exports	33.3	47.7	68.3	85.9	95.0
+ Direct Imports	17.0	25.4	36.2	53.8	56.3
Apparent Direct Consumption	163.7	205.2	259.9	316.6	254.3
- Indirect Exports (*)	13.8	17.3	28.2	36.0	45.0
+ Indirect Imports (*)	6.8	- 9.1	16.2	21.7	20.7
Apparent Final Consumption	156.7	197.0	247.9	302.3	230.0
Indirect Exports as a per cent of Direct Exports	41%	36%	41%	42%	47%
Indirect Exports as a per cent of Apparent Direct Consumption	8%	8%	11%	11%	18%
Indirect Imports as a per cent of Apparent Final Consumption	4%	5%	6.5%	7%	9%

(*) Excluding ships

(1) Countries/areas listed in Table 24 only

TABLE 27

WORLD PIG IRON AND BLAST FURNACE FERRO-ALLOYS PRODUCTION BY COUNTRY 1968 - 1977

(Thousand Metric Tons)

COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Western Europe										
Belgium	10,335	11,191	10,821	10,403	11,777	12,655	13,152	9,069	9,866	8,912
Denmark	185	208	215	229	204	76	-	-	-	-
F.R. of Germany	30,514	33,912	33,897	30,223	32,220	37,093	40,221	30,074	31,849	28,961
France	16,740	18,539	19,575	18,719	19,395	20,751	22,517	17,921	19,024	18,252
Ireland	-	-	-	-	-	-	-	-	-	-
Italy	7,993	7,947	8,529	8,727	9,634	10,271	11,761	11,411	11,630	11,411
Luxemburg (a)	4,308	4,872	4,814	4,588	4,671	5,091	5,468	3,889	3,759	3,568
Netherlands	2,821	3,460	3,594	3,759	4,289	4,707	4,804	3,970	4,267	3,922
United Kingdom (1)	16,787	16,699	17,386	15,458	15,400	16,834	13,941	11,935	13,911	12,266
Total EEC	89,683	96,828	98,831	92,105	97,590	107,528	111,864	88,269	94,306	87,292
Austria	2,479	2,821	2,970	2,943	2,846	3,005	3,443	3,056	3,320	2,964
Finland (a)	1,039	1,152	1,104	1,035	1,184	1,412	1,381	1,368	1,329	1,764
Greece	-	-	-	-	-	-	-	-	-	-
Norway	680	684	678	627	647	700	661	638	647	548
Portugal	288	347	316	269	377	347	282	327	344	357
Spain	2,830	3,412	4,278	4,956	6,093	6,567	6,905	6,842	6,626	6,705
Sweden (a)	2,702	2,768	2,842	2,615	2,587	2,782	2,979	3,309	2,952	2,308
Switzerland	22	25	28	32	36	26	35	35	23	E 27
Turkey (a)	910	948	1,034	881	1,135	896	1,317	1,337	1,679	1,742
Yugoslavia	1,286	1,288	1,377	1,630	1,949	2,109	2,126	2,001	1,919	1,929
Total Western Europe	101,969	110,283	113,517	107,293	114,444	125,373	130,993	107,182	113,145	105,636
Eastern Europe										
Bulgaria (a)	1,111	1,134	1,252	1,378	1,562	1,610	1,528	1,509	1,552	1,614
Czechoslovakia	7,018	7,106	7,653	8,074	8,476	8,656	8,905	9,290	9,475	9,715
D.R. of Germany	2,328	2,087	1,988	2,018	2,147	2,197	2,280	2,456	2,528	2,631
Hungary	1,659	1,762	1,837	1,983	2,074	2,115	2,290	2,219	2,221	2,286
Poland	6,676	6,856	7,111	7,331	7,579	7,895	7,787	7,752	8,036	9,650
Romania	3,006	3,486	4,211	4,381	4,890	5,713	6,081	6,602	E 7,650	E 8,000
Total Eastern Europe	21,798	22,431	24,052	25,170	26,728	28,187	28,871	29,828	30,462	33,896
USSR	78,786	81,634	85,933	89,256	92,327	95,933	99,868	102,968	105,384	107,368
North America										
Canada	7,747	6,954	8,424	8,010	8,722	9,740	9,582	9,311	10,033	9,809
United States	82,883	88,536	85,141	75,722	82,861	93,522	87,008	72,506	78,808	73,799
Total North America	90,630	95,490	93,565	83,732	91,583	103,262	96,590	81,817	88,841	83,608
Latin America										
Argentina (a)	574	589	815	861	849	804	1,083	1,030	1,284	1,097
Brazil	3,369	3,717	4,205	4,686	5,300	5,532	5,846	7,053	8,170	9,380
Chile (a)	442	485	466	458	487	458	516	418	403	433
Colombia	198	195	229	243	288	271	269	298	285	223
Mexico	2,040	2,222	2,353	2,428	2,778	2,885	3,207	2,048	2,331	E 2,968
Peru (a)	111	176	86	144	163	253	303	286	226	268
Venezuela	539	520	510	515	586	533	546	546	421	348
Total Latin America	7,273	7,904	8,664	9,335	10,401	10,736	11,770	11,679	13,120	14,717

(1) Estimated by IISI on a calendar year basis

WORLD PIG IRON AND BLAST FURNACE FERRO-ALLOYS PRODUCTION BY COUNTRY 1968 - 1977 (Continued)

(Thousand Metric Tons)

COUNTRY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Africa and Middle East										
Egypt (a)	220	300	300	210	299	250	E 250	E 250	E 250	E 250
Rhodesia	260	E 250	E 250	280	290	290	E 300	310	310	E 310
Tunisia (a)	128	131	132	98	143	158	145	145	103	E 136
South Africa	4,121	4,355	4,328	4,456	4,899	4,886	4,663	5,213	5,845	6,096
Others	9	10	10	12	12	10	E 12	E 12	E 15	E 20
Total Africa and Middle East	4,738	5,066	5,020	5,056	5,643	5,594	5,370	E 5,930	E 6,523	E 6,782
Asia										
China	15,500	15,500	16,500	19,000	21,000	21,000	22,000	22,000	23,000	E25,000
India (a)	7,238	7,488	7,118	6,981	7,402	7,341	7,406	8,437	9,776	9,785
Japan	46,397	58,147	68,048	72,745	74,005	90,007	90,437	86,877	86,576	85,885
D.R. of Korea	2,050	2,300	2,400	2,500	2,600	2,700	2,700	2,900	E 3,200	E 3,300
Republic of Korea(a)	26	23	41	22	6	455	987	1,194	2,012	2,435
Taiwan (ROC)	86	89	96	108	128	150	111	67	105	E 150
Thailand	3	3	3	3	12	15	17	14	18	E 20
Total Asia	71,300	83,550	94,206	101,359	105,153	123,668	123,658	121,489	124,687	126,576
Oceania										
Australia (a) (b)	5,293	5,797	5,769	6,240	6,006	7,182	7,515	7,513(c)	7,308	6,698
Total Oceania	5,293	5,797	5,769	6,240	6,006	7,182	7,515	7,513	7,308	6,698

SUMMARY

Western Europe	101,969	110,283	113,517	107,293	114,444	125,373	130,993	107,182	113,145	105,636
Eastern Europe	21,798	22,431	24,052	25,170	26,728	28,187	28,871	29,828	30,462	33,896
USSR	78,788	81,634	85,933	89,256	92,327	95,933	99,868	102,968	105,384	107,386
North America	90,630	95,490	93,565	83,732	91,583	103,262	96,590	81,817	88,841	83,608
Latin America	7,273	7,904	8,664	9,335	10,401	10,736	11,770	11,679	13,120	14,717
Africa and Middle East	4,738	5,066	5,020	5,056	5,643	5,594	5,370	5,930	6,523	6,782
Asia	71,300	83,550	94,206	101,359	105,153	123,668	123,658	121,489	124,687	126,570
Oceania	5,293	5,795	5,769	6,240	6,006	7,182	7,515	7,513	7,308	6,698
TOTAL WORLD	381,789	412,153	430,726	427,441	452,285	499,935	504,635	468,406	489,470	485,293

Footnotes (a) Excluding ferro-alloys
(b) Twelve months July 1 to June 30
(c) Calendar Year
E = Estimate

TABLE 28

PIG IRON 1977: Production, Trade and Apparent Consumption

(including blast furnace ferro-alloys)

Million metric tons

	Production +	Imports -	Exports =	Apparent Consumption
Belgium/Luxemburg	12.5	0.2	0.1	12.6
France	18.3	0.5	0.2	18.6
F.R. of Germany	29.0	0.3	0.8	28.5
Italy	11.4	0.7	-	12.1
Netherlands	3.9	0.1	-	4.0
United Kingdom	12.4	0.2	0.1	12.5
Austria	3.0	0.1	-	3.1
Spain	6.7	-	-	6.7
Sweden	2.3	0.1	0.3	2.1
Yugoslavia	1.9	-	0.1	1.8
Canada	9.8	-	0.5	9.3
United States	73.8	0.5	0.1	74.2
Brazil	9.4	-	0.9	8.5
Mexico	E 3.0	-	-	E 3.0
South Africa	6.1	-	-	6.1
India	9.8	-	-	9.8
Japan	85.9	0.6	0.6	85.9
Australia	6.7	-	E0.2	E 6.5
USSR	107.4	E0.2	E4.3	E103.3
Bulgaria	1.6	0.4	-	2.0
Czechoslovakia	9.7	0.9	-	10.6
German Democratic Republic	2.6	0.7	-	3.3
Hungary	2.3	0.2	0.1	2.4
Poland	9.7	1.7	-	11.4
Romania	8.0	E0.4	E0.1	8.3
Total of above countries	447.2	7.8	8.4	446.6
WORLD TOTAL	485.3			

TABLE 29

TOTAL PIG IRON AND SCRAP USED IN STEELMAKING 1965, 1970, 1973 and 1975

(Million metric tons and percentages)

	1965				1970				1973				1975			
	Scrap	Pig Iron	Total	% Scrap	Scrap	Pig Iron	Total	% Scrap	Scrap	Pig Iron	Total	% Scrap	Scrap	Pig Iron	Total	% Scrap
North America	64.68	82.26	146.94	44.0	62.93	86.16	149.09	42.2	78.26	95.78	174.04	45.0	60.56	77.70	138.25	43.8
Latin America	5.16	4.25	9.41	54.8	7.25	7.42	14.67	49.4	8.77	10.01	18.78	46.7	9.72	11.15	20.87	46.6
Oceania	1.67	4.43	6.10	27.4	2.03	5.56	7.59	26.7	2.61	6.31	8.92	29.3	2.49	6.71	9.20	27.1
ECSC	48.55	75.74	124.29	39.1	59.26	91.06	150.32	39.4	63.41	100.36	164.27	38.6	54.42	82.81	137.23	39.7
Other Western Europe	8.20	8.86	17.06	48.1	13.16	13.31	26.47	49.7	15.95	16.19	32.14	49.6	16.25	17.11	33.36	48.6
Japan	17.33	27.62	44.95	38.6	34.80	67.18	101.98	34.1	41.11	88.62	129.73	31.7	28.84	81.94	110.78	26.0
India	0.92	6.51	7.43	12.4	1.09	6.15	7.24	15.1	1.68	6.22	7.90	21.3	2.06	7.05	9.11	22.6
Other Asia	0.65	0.10	0.75	86.7	1.53	0.10	1.63	93.9	2.53	0.82	3.35	75.5	3.44	1.39	4.83	71.2
South Africa	0.94	2.61	3.55	26.5	1.94	3.42	5.36	36.2	2.88	3.41	6.29	45.8	2.70	4.72	7.42	36.4
Other Africa	0.05	0.21	0.26	19.2	0.19	0.44	0.63	30.2	0.29	0.77	1.06	27.4	0.30	0.78	1.08	27.8
Middle East	0.18	0.36	0.54	33.3	0.20	0.37	0.57	35.1	0.27	0.67	0.94	28.7	0.30	0.67	0.97	30.9
Western World	148.33	212.95	361.28	41.1	184.38	281.17	465.55	39.6	217.76	329.66	547.42	39.8	181.08	292.03	473.11	38.3
USSR	44.19	61.78	105.97	41.7	54.97	69.65	124.62	44.1	62.99	79.39	142.38	44.2	66.25	86.34	152.59	43.4
Other Eastern Europe	15.16	15.39	30.55	49.6	21.61	23.21	44.82	48.2	22.90	29.23	52.13	43.9	25.26	31.15	56.41	44.8
China and North Korea	7.15	7.81	14.96	47.8	9.99	12.85	22.84	43.7	13.87	17.87	31.74	43.7	14.61	18.83	33.44	43.7
WORLD TOTAL	214.83	297.93	512.76	41.9	270.95	386.88	657.83	41.2	317.52	456.15	773.67	41.0	287.20	428.35	715.55	40.1

TABLE 30

IRON AND STEEL SCRAP: Consumption, Trade and Apparent Supply 1977

(Million metric tons)

	Consumption	- Imports	+ Exports	= Domestic Supply
Belgium/Luxemburg	4.8	0.5	0.5	4.8
France	7.5(1)	0.3	3.4	10.6
F.R. of Germany	20.2	1.4	2.5	21.3
Italy	E 14.8	5.8	-	9.0
Netherlands	1.7	0.1	0.9	2.5
United Kingdom	15.7	0.1	0.9	16.5
Austria	1.6	0.1	-	1.5
Spain	7.3	2.0	-	5.3
Sweden	3.3	-	0.1	3.4
Yugoslavia	1.8	0.4	-	1.4
Canada	E 6.9(3)	E 0.6	E 0.6	6.9
USA	83.5	0.6	5.6	88.5
Brazil	4.6	-	-	4.6
South Africa	E 2.9(2)	-	-	E 2.9
India	E 2.5	-	-	E 2.5
Japan	34.6	1.4	0.2	33.4
USSR	E 86.0(2)	-	1.8	E 87.8
Bulgaria	E 1.2	-	0.1	E 1.3
Czechoslovakia	7.4	E 0.2	-	7.2
German D.R.	4.3	0.5	-	3.8
Hungary	2.2	-	0.1	2.3
Poland	10.1	-	0.1	10.2

(1) Excluding consumption in iron foundries

(2) In steelworks only

(3) In blast furnaces and melting shops only

TABLE 31

SPECIFIC SCRAP CONSUMPTION IN STEELMAKING: 1965 - 1977

(Kilograms per metric ton)

	1965	1970	1974	1975	1976	1977
Belgium	210	256	292	314	295	297
Denmark	709	630	975	1,033	1,074	1,142
F.R. of Germany	416	413	394	403	390	397
France	356	358	337	341	343	334
Italy	673	646	613	619	627	..
Luxemburg	210	235	272	277	293	301
Netherlands	428	408	330	295	309	309
United Kingdom	520	543	546	557	548	550
Austria	386	367	359	350	345	369
Norway	509	462	494	508	485	477
Spain	492	637	589	586	599	..
Sweden	578	592	618	600	602	..
Yugoslavia	459	519	547	557	542	520
Canada	490	433	512	508	482	501
United States	518	492	537	523	518	512
India	257	293	358	..	229	..
Japan	421	373	334	282	300	277
Australia	377	323	311	309	..	..
Czechoslovakia	475	..	446	439	436	441
German D.R.	..	..	687	653	660	601
Hungary	491	517	495	485	487	488
Poland	528	538	545	..	579	555
USSR (1)	..	489	489	485	..	..

(1) Open Hearth only

TABLE 32

IRON ORE: Production, Trade and Apparent Consumption 1977

(Million metric tons actual weight)

	Fe (1) Content	Production	+	Imports	-	Exports	=	Apparent Consumption
Belgium/Luxemburg	(27)	1.6		21.5		0.1		23.0
France	(33)	36.6		14.6		11.8		39.4
F.R. of Germany	(28)	2.9		39.7		-		42.2
Italy	(50)	0.5		15.3		-		15.8
Netherlands	-	-		6.9		0.1		6.8
United Kingdom	(27)	3.7		15.5		-		19.3
Austria	(32)	3.4		2.6		-		6.1
Spain	(48)	7.9		4.9		1.5		11.3
Sweden	(63)	25.4		0.1		18.9		6.6
Yugoslavia	(45)	4.5		0.5		-		5.0
Canada	(55)	54.4		E 3.2		41.9		15.7
United States	(60)	56.3		38.5		2.2		92.6
Brazil	(68)	71.9		-		58.5		13.4
Chile	(63)	10.2		-		E 9.6		0.6
Mexico	(60)	3.4		E 2.1		-		E 5.5
Peru	(60)	7.0		-		6.6		0.4
Venezuela	(64)	22.0		-		E21.2		0.8
Liberia	(68)	26.5		-		26.5		-
Mauretania	(65)	8.3		-		8.3		-
South Africa	(60-65)	15.5		-		E 7.0		8.5
India	(61)	41.2		-		E22.5		18.7
Japan	(57)	0.7		132.6		-		133.3
Australia	(65)	97.5		-		E85.0		12.5
Total of Above Countries		501.4		298.0		321.7		477.5
USSR	(60)	239.7		-		E50.0		189.7
Bulgaria	(32)	2.3		1.7		-		4.0
Czechoslovakia	(30)	2.0		E15.0		-		17.0
German D.R.	(25)	0.1		3.8		-		3.9
Hungary	(25)	0.3		4.3		-		4.6
Poland	(30)	0.7		16.9		-		17.6
Romania	(35)	2.8		12.2		-		15.0
Total all Above Countries		749.3		351.9		371.7		729.3
WORLD TOTAL		E 840.0						

(1) of domestic production, percentage of total weight

TABLE 33

TOTAL SPECIFIC USE OF ENERGY, 1960 - 1976

(TCE/ton of crude steel)

COUNTRY	1960	1965	1970	1971	1972	1973	1976
Australia	..	..	1.0871	1.0565	1.0348	1.0544	1.0367
Austria	..	0.7894	0.7261	0.6930	0.6718	0.6985	0.7647
Belgium	0.9811	0.8889	0.7733	0.7548	0.7559	0.7573	0.7662
Canada	0.6693	0.7355	0.7519	0.7208	0.6998	0.7227	0.7276
Finland	0.6567	2.1041	0.8218	0.8701	0.7437	0.8085	0.7722
France	0.9162	0.7727	0.7244	0.7280	0.7323	0.8831	0.8942
F.R. of Germany	0.9404	0.8535	0.8107	0.8149	0.7848	0.7687	0.7993
Italy	..	..	..	0.6116	0.5762	0.5918	0.4928
Japan	0.7247	0.6737	0.6669	..	..	0.6958	0.7285
Luxemburg	0.9826	0.9149	0.9008	0.9168	0.9058	0.7792	0.8717
Netherlands	0.8920	0.7918	0.7144	0.6344	0.6575	0.6916	0.6703
South Africa		1.1337	0.9767	1.1190	1.2448	1.2376	1.1245
Sweden	0.726	0.679	0.734	..	..	0.704	0.6737
United Kingdom	1.1630	1.0583	0.9802	0.9866	0.8968	0.8933	0.9064
United States	1.0506	0.9014	0.9261	0.9432	0.9025	0.8809	0.9056

TCE = ton of coal equivalent = 7,000,000 KCal or 27.78×10^6 BTU
or 29.3×10^9 Joules

TABLE 34

PERCENTAGE SHARES IN TOTAL USE OF ENERGY

1960 - 1976

(a) Coal and Coke

COUNTRY	1960	1965	1970	1973	1976
Australia	..	..	42.7	39.3	40.1
Austria	..	38.1	36.2	37.1	41.0
Belgium	44.1	46.5	42.2	40.9	41.5
Canada	50.0	46.6	34.1	30.4	28.1
Finland	19.8	61.7	49.5	42.8	42.0
F.R. of Germany	43.6	42.2	36.5	33.7	35.5
France	63.3	54.6	50.4	49.5/41.2	39.3
Italy	..	..	32.7*	31.9	/36.5
Japan	36.7	36.6	38.4	35.1	36.9
Luxemburg	45.3	40.2	35.1	41.5	42.6
Netherlands	55.3	57.6	54.8	44.0	43.1
South Africa	..	50.0	38.3	45.0	43.1
United Kingdom	42.4	37.7	33.3	31.3	32.5
United States	44.2	43.8	39.9	37.1	32.7

* 1971

(b) Coke oven and blast furnace gas

COUNTRY	1960	1965	1970	1973	1976
Australia	..	..	34.3	38.9	39.9
Austria	..	23.8	23.1	23.8	23.5
Belgium	46.4	37.5	33.4	28.9	24.8
Canada	40.6	32.8	33.7	36.2	37.2
Finland	17.1	22.7	20.7	15.6	20.0
France	28.4	30.0	25.5	21.0/26.8	25.4
F.R. of Germany	41.4	33.1	30.2	28.3	27.2
Italy	..	..	14.2*	14.1	/25.8
Japan	23.2	23.7	23.2	21.9	21.4
Luxemburg	57.6	47.9	40.2	27.2	21.6
Netherlands	13.0	9.8	9.4	12.2	19.2
South Africa	..	25.0	30.8	25.5	25.8
United Kingdom	25.1	21.7	19.6	20.4	21.3
United States	25.7	21.5	23.8	23.7	24.4

* 1971

Note: These tables cover the major, but not all, sources of energy: for example natural gas and diesel oil are not included. Consequently the four component parts of Table 34 do not add to 100 per cent of total use of energy.

Definitional problems arise for some countries when comparing the 1976 figures with those of earlier years, due for example to different treatment of energy input into works' power plants. Where discontinuities are known to exist, these have been marked thus /

TABLE 34 (Continued)

PERCENTAGE SHARES IN TOTAL USE OF ENERGY

1960 - 1976

(c) Fuel oil

COUNTRY	1960	1965	1970	1973	1976
Australia	..	..	13.1	12.4	9.8
Austria	..	13.7	17.1	16.5	17.8
Belgium	2.2	7.8	9.4	8.0	7.6
Canada	4.0	15.2	15.9	10.9	10.3
Finland	22.7	7.7	18.4	23.3	22.7
France	5.0	9.0	14.7	15.9/26.9	15.3
F.R. of Germany	5.5	11.7	13.8	15.7	12.6
Italy	..	..	11.4*	9.9	/13.9
Japan	18.7	13.1	21.1	21.1	14.9
Luxemburg	0.5	9.7	18.4	20.0	17.7
Netherlands	19.8	21.2	14.9	16.0	18.7
South Africa	..	0.3	1.0	2.4	1.0
United Kingdom	12.1	20.0	25.0	23.1	17.8
United States	9.8	8.2	6.1	7.3	8.3

* 1971

(d) Electric Power
(including purchased and own production)

COUNTRY	1960	1965	1970	1973	1976
Australia	..	..	9.6	9.6	8.0
Austria	..	17.5	16.6	15.9	19.1
Belgium	12.5	13.3	14.2	14.1	16.1
Canada	4.9	5.2	5.5	6.6	5.6
Finland	40.2	15.0	16.8	20.2	22.2
France	5.1	8.0	8.7	10.4/15.9	18.1
F.R. of Germany	13.5	15.1	15.2	16.2	17.9
Italy	..	..	30.2*	30.6	/16.2
Japan	27.5	24.1	21.3	21.5	23.5
Luxemburg	15.2	17.9	15.7	17.3	20.2
Netherlands	12.3	11.1	10.0	12.8	16.3
South Africa	..	17.9	23.0	20.6	25.5
United Kingdom	13.5	17.4	19.5	20.2	21.2
United States	8.8	10.1	12.7	13.6	15.4

* 1971

TABLE 35

SPECIFIC COKE CONSUMPTION 1960 - 1977

(Kg/ton of pig iron produced)

COUNTRY	1960	1965	1970	1973	1976	1977
Austria	730	617	510	510	469	459
Belgium	844	646	584	557	535	527
Canada	769	585	544	476	464	444
F.R. of Germany	834	672	559	495	482	484
Finland	515	560	484	475	463	..
France	972	784	626	558	520	501
Italy	777	663	540	518	472	..
Luxemburg	1092	860	730	601	493	497
Japan	619	507	478	438	431	433
Netherlands	790	559	497	476	441	450
South Africa	..	756	665	617		
Sweden (a)	591	574	558	542	538	..
United Kingdom	825	680	625	577	606	601
United States	770	650	658	595	598	..

(a) Specific coke consumption represents consumption of coke-oven coke in blast furnaces, electric furnaces and low-shaft furnaces

TABLE 36

SPECIFIC COKE AND OIL CONSUMPTION 1960 - 1976

(Kg/ton of pig iron produced)

COUNTRY	1960		1965		1970		1973		1976	
	Coke	Oil	Coke	Oil	Coke	Oil	Coke	Oil	Coke	Oil
Japan	619	-	507	37	478	38	438	55	431	E38
F.R. of Germany	834	-	672	8	559	50	495	71	482	E62
Belgium	844	-	646	18	584	22	557	21	535	E23
France	972	-	784	17	626	59	558	81	520	E97
United Kingdom	825	-	680	10	625	19	577	31	606	25
Luxemburg	1092	-	860	35	730	77	601	87	493	E96

TABLE 37

NUMBER ON THE BOOKS AT YEAR-END: WORKERS AND EMPLOYEES

(Thousands)

COUNTRY	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	..	51.0	46.0	62.0	64.0	58.0	55.0	50.0
Denmark	1.4	1.6	1.7	2.0	2.2	2.5	2.7	2.5
F.R. of Germany	251.5	242 7	229.0	228.0	232.0	212.9	210.1	200.8
France	158.2	154.9	146.1	151.5	157.6	155.6	153.7	142.8
Italy	60.5	69.2	76.7	89.6	95.6	96.1	98.0	96.6
Luxemburg	..	22.6	22.7	22.9	23.1	21.0	21.3	17.1
Netherlands	..	18.5	21.1	23.0	24.7	25.0	24.7	23.0
United Kingdom (1)	..	..	..	196.1	194.3	183.1	180.3	176.9
Austria	38.8	44.3	43.0	41.9	44.0	42.4	42.2	41.6
Finland	6.4	8.6	9.3	11.4	11.9	13.7	15.0	15.5
Portugal	..	2.1	3.0			4.5	4.8	
Spain	..	..	..	..	..	90.9	90.7	90.6
Sweden	44.2	47.1	48.6	48.3	50.0	51.3	51.3	
Yugoslavia	47.6	51.3	56.3			73.7	76.9	
Canada	36.5	44.3	49.2	53.0	54.3	54.0	52.0	E 54.9
United States	571.6	583.9	531.2	508.6	512.4	457.2	454.1	452.4
Argentina	..	..	7.6	8.6	9.6	11.4	12.2	..
Brazil	..	69.9	81.0	101.1	117.8	123.9	145.0	133.9
Venezuela	..	..	6.2			10.7	11.4	
S. Africa	39.9	63.8	73.8	92.0	97.3	96.4	105.1	104.2
Japan	351.0	424.0	474.0	458.0	459.0	447.0	433.0	420.0
Australia	24.8	32.1	36.6	36.9	37.8	37.8	36.7	35.8

(1) Midyear

TABLE 38

EMPLOYEES

(Thousands)

COUNTRY	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	..	8.0	7.0	10.0	10.0	9.0	9.0	9.0
F.R. of Germany	36.6	42.7	48.3	56.3	58.0	48.8	48.4	46.8
France	26.5	30.5	36.2	43.6	47.1	48.5	50.4	48.9
Italy	7.6	11.0	13.4	16.8	17.4	18.4	19.0	19.3
Luxemburg	..	2.8	3.0	3.2	3.3	4.0	4.5	3.6
United Kingdom (1)	..	..	..	50.8	52.5	51.6	48.8	49.7
Austria	..	..	9.2	12.1	13.1	12.6	12.5	12.7
Finland	1.1	1.5	2.1	2.7	2.8	3.3	3.7	3.9
Spain	..	..	..	..	..	23.3	23.4	24.6
Sweden	8.4	9.0	12.6	12.5	12.6	13.2	13.5	
Yugoslavia	5.5	7.4	9.8	..	..	14.5	15.3	
Canada	6.4	7.8	10.9	11.8	12.2	11.8	11.4	E 12.1
United States	121.7	125.3	128.1	115.8	119.2	117.2	115.1	115.0
Argentina	..	..	1.3	1.5	1.8	2.3	2.7	..
Venezuela	..	..	1.5	..	..	3.8	4.1	
Japan	67.0	94.0	106.0	114.0	114.0	115.0	116.0	113.0
Australia	4.6	6.5	9.0	9.7	9.9	9.8	9.1	9.0

(1) Midyear

Note: Due to significant differences in coverage and definitions from one country to another, these tables should not be used for purposes of international comparison.

In these tables employees are defined as professional, technical and clerical staff, paid by salary; workers comprise operative and maintenance personnel and are paid wages.

TABLE 39

WORKERS

(Thousands)

COUNTRY	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	47.0	43.0	39.0	52.0	54.0	49.0	46.0	41.0
F.R. of Germany	214.8	200.0	180.6	171.7	174.0	164.1	161.7	154.0
France	131.7	124.4	109.9	107.9	110.5	107.0	103.3	93.8
Italy	52.9	58.2	63.3	72.8	78.2	77.7	79.0	77.3
Luxemburg	19.4	19.8	19.7	19.7	19.8	17.0	17.1	13.5
Netherlands	9.1	11.2	13.1	..	..	..	..	..
United Kingdom (1)	..	..	..	145.3	141.8	131.5	131.5	127.2
Austria	..	..	33.7	29.8	30.9	29.9	29.6	29.0
Finland	5.2	7.0	7.2	8.7	9.1	10.4	11.3	11.6
Spain	..	..	..			67.6	67.4	66.0
Sweden	35.8	38.1	36.1	35.9	37.4	38.0	37.7	
Yugoslavia	42.2	43.9	46.5			59.2	61.6	
Canada	30.1	36.4	39.3	41.2	42.1	42.2	40.6	E 42.8
United States	449.9	458.5	403.1	392.9	393.2	339.9	339.0	337.4
Argentina	..	..	6.3	7.1	7.8	9.1	9.5	..
Venezuela	..	..	4.7			6.9	7.3	
Japan	284.0	339.0	368.0	344.0	345.0	332.0	317.0	307.0
Australia	20.2	25.6	27.6	27.2	27.9	28.0	27.6	26.9

(1) Midyear

TABLE 40

HOURS WORKED BY WORKERS

(Million manhours)

COUNTRY	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	97	89	78	94	98	74	73	70
F.R. of Germany	424	392	344	308	312	266	270	252
France	299	272	221	199	200	181	176	158
Italy	115	118	113	120	128	124	128	127
Luxemburg	40	39	37	35	35	31	30	26
Netherlands	(18)	(22)	..			..	..	
United Kingdom	..	..	..	270	262	247	241	238
Austria	..	..	..	56	58	52	52	50
Finland	11	15	14	16	17	19	20	20
Portugal	..	5	7			9	10	
Spain	..	..	..			138	124	129
Sweden	73	76	68	62	64	64	61	
Yugoslavia	..	111	113			139	145	
Canada	..	77	80	86	92	86	84	E 88
United States	840	902	772	788	772	622	646	646
Argentina	..	..	14	16	17	18	19	..
Venezuela	..	..	15			19	22	
Japan	700	800	853	767	743	663	646	630
Australia	..	..	..	48	48	67	66	47

Note: Due to significant differences in coverage and definitions from one country to another, these tables should not be used for purposes of international comparison.

In these tables employees are defined as professional, technical and clerical staff, paid by salary; workers comprise operative and maintenance personnel and are paid wages.

TABLE 41

WAGE PAID PER HOUR WORKED

(National currency units)

COUNTRY	Currency Unit	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	BFr	43.0	60.0	89.0	136.0	168.0	185.0	205.0	220.0
F.R. of Germany	DM	3.5	4.9	7.1	8.9	10.1	11.2	11.5	12.2
France	FFr	2.9	3.9	6.3	9.6	11.9	14.1	16.1	17.7
Italy	Lira	355	560	889	1263	1561	1864	2232	2850
United Kingdom	£	..	..	..	1.1	1.2	1.7	1.9	2.2
Austria	Sch	..	..	..	42.2	48.4	56.6	60.8	67.1
Finland	Mk	2.7	3.8	6.3	9.8	12.0	14.8	17.1	18.7
Portugal	Esc	..	12.2	22.0			64.9	90.2	
Spain	Pta	..	..	..			163.0	203.0	270.0
Sweden	Kr	..	9.6	13.3	18.2	21.0	25.2	27.1	29.3
Canada	Cn$	..	2.9	3.9	5.1	5.6	6.3	7.3	E 7.8
United States	US$	3.3	3.9	4.8	6.3	7.4	8.3	9.1	10.3
Argentina	Peso	..	..	2.4	9.5	12.9	41.0	139.0	..
Venezuela	Bol	..	..	8.1			13.8	15.4	
Japan	Yen	149.0	235.0	493.0	791.0	1063.0	1265.0	1348.0	1464.0
Australia	A$	..	..	..	3.0	4.1	4.9	5.3	5.8

TABLE 42

TOTAL WAGES PAID

(Million national currency units)

COUNTRY	Currency Unit	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	BFr	4,250	5,602	7,236	10,493	13,145	14,965	16,104	15,785
France	FFr	854	1,074	1,392	2,154	2,666	2,940	3,247	3,256
Italy	Lira	46	71	112	177	236	268	337	415
United Kingdom	£	..	..	..	284	320	415	462	512
Austria	Sch	..	..	2,479	3,181	3,804	4,170	4,287	4,559
Finland	Mk	29	56	87	157	200	286	345	379
Spain	Pta	..	..	..			22,510	25,172	34,830
Sweden	Kr	..	729	991	1,298	1,502	1,815	1,989	
Canada	Cn$	154	221	309	439	514	554	612	..
United States	US$	2,814	3,549	3,680	4,973	5,732	5,167	5,897	6,621
Argentina	Peso	..	..	53	223	341	1,158	4,155	..
Venezuela	Bol	..	..	37			82	104	
Japan	Bn Yen	104	188	420	607	789	838	870	923
Australia	A$	..	..	..	143	198	227	245	268

Note: Due to significant differences in coverage and definitions from one country to another, these tables should not be used for purposes of international comparison.

In these tables employees are defined as professional, technical and clerical staff, paid by salary; workers comprise operative and maintenance personnel and are paid wages.

TABLE 43

TOTAL WAGES AND SALARIES PAID

(Million national currency units)

COUNTRY	Currency Unit	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	BFr	..	7,451	9,706	13,876	17,175	21,045	22,572	22,451
Denmark	DKr	24	39	67	98	145	194	223	223
France	FFr	..	..	..	..	4,624	5,269	5,955	6,169
United Kingdom	£	..	..	..	400	482	623	679	740
Austria	Sch	..	..	3,441	4,853	5,855	6,588	6,802	7,309
Finland	Mk	38	75	127	225	286	414	508	555
Portugal	Esc	..	59	149			565	864	
Spain	Pta	..	..	..			31,949	37,163	49,960
Sweden	Kr	..	1,050	1,475	1,926	2,213	2,700	3,030	
Yugoslavia	Din	152	350	400			2,217	2,510	
Canada	Cn$	194	277	424	595	702	761	833	..
United States	US$	3,890	4,797	5,234	6,810	7,903	7,446	8,331	9,243
Argentina	Peso	..	..	67	279	440	1,546	5,655	..
Brazil	Cr	..	..	620	1,557	2,572	3,368	5,547	8,710
Venezuela	Bol	..	..	72			159	173	
S. Africa	Rand	46	87	146	213	273	338	411	456
Japan	Bn Yen	138	258	591	846	1,107	1,188	1,251	1,337
Australia	A$	59	94	151	208	287	330	353	389

TABLE 44

TOTAL SALARIES PAID

(Million national currency units)

COUNTRY	Currency Unit	1960	1965	1970	1973	1974	1975	1976	1977
Belgium	BFr	..	1,849	2,470	3,383	4,030	6,080	6,468	6,666
France	Ffr	..	..	..	..	1,958	2,329	2,708	2,913
United Kingdom	£	..	..	..	116	E 163	208	E 217	228
Austria	Sch	..	..	962	1,672	2,051	2,418	2,515	2,750
Finland	Mk	9	20	41	69	85	128	162	177
Spain	Pta	..	..	..			9,439	11,991	15,130
Sweden	Kr	..	321	484	628	710	884	1,041	
Canada	Cn$	40	56	115	157	188	207	221	..
United States	US$	1,076	1,248	1,554	1,837	2,171	2,280	2,434	2,623
Argentina	Peso	..	..	14	56	99	388	1,499	..
Brazil	Cr								
Venezuela	Bol	..	..	35			77	69	
S. Africa	Rand								
Japan	Bn Yen	34	70	151	239	318	350	381	414
Australia	A$	..	..	..	66	89	103	108	120

Note: Due to significant differences in coverage and definitions from one country to another, these tables should not be used for purposes of international comparison.

In these tables employees are defined as professional, technical and clerical staff, paid by salary; workers comprise operative and maintenance personnel and are paid wages.

APPENDIX

SOURCES AND EXPLANATORY NOTES

Table Number	Regular IISI Statistical Publications	Other Sources and Notes
1.	IISI 103	British Iron and Steel Federation Statistics
2.	IISI 103	IISI Statistical Respondents; United Nations sources
3.	IISI 101, 102	IISI Statistical Respondents
4.	IISI 125	IISI Statistical Respondents
5.	IISI 120, 122	IISI Statistical Respondents; United Nations Economic Commission for Europe Annual and Quarterly Bulletins of Steel Statistics for Europe
6.	Derived from Table 5.	
7.	IISI 140, 130	IISI Statistical Respondents. The narrow definition of the steel industry excludes the sectors which produce the items listed in rows J - O; although the domestic industry's deliveries of steel products for transformation in those sectors will be included in rows A - I. The broad definition of the industry comprises also the transformation sectors producing the items in lines J - O. Data given under the different definitions are not comparable with each other.

N.B. All import, export and consumption statistics in Tables 8 - 20 are based on the broad definition of the steel industry

8.	Derived from Table 11 converted into crude steel equivalent at a factor of 1.3	
9.	IISI 152	United Nations Economic Commission for Europe statistics; ILAFA, SEAISI and BSC statistics; IISI estimates
10.	IISI 162	United Nations Economic Commission for Europe statistics; ILAFA, SEAISI and BSC statistics, IISI estimates
11.		United Nations Economic Commission for Europe statistics, and IISI estimates
12.	Derived from Table 11.	
13.		United Nations Economic Commission for Europe statistics, and IISI estimates
14.	Derived from Table 13.	
15.		United Nations Economic Commission for Europe statistics; World Trade in Steel, various years.
16.	Derived from Table 15..	
17.	IISI 150	
18.	IISI 150	
19.	IISI 143	Various United Nations Statistics, together with IISI estimates based upon available data on production and foreign trade. Apparent Consumption is defined as production plus net imports. Foreign trade is converted into crude steel equivalent using UN coefficients.
20.		Various United Nations Statistics and IISI estimates
21.	IISI 140	Apparent Consumption is defined as deliveries plus net imports.
22 - 26.		Indirect Trade in Steel comprises steel which is exported or imported not as steel products under the broad definition of the steel industry, but as manufactured products such as machinery or vehicles. The exports of the countries listed in Table 22 form the basis for the analysis in Tables 22 - 26. Statistics are drawn from IISI publications on World Indirect Trade in Steel.
27.	IISI 93	IISI Statistical Respondents and United Nations Statistics.
28.	WSF *	Various United Nations statistical sources
29.		Prepared by IISI Secretariat for use in energy and raw materials studies.
30.	WSF*	Various United Nations statistical sources
31.	WSF*	Prepared for "World Steel in Figures" using United Nations Economic Commission for Europe data
32.	WSF*	Various United Nations statistical sources
33 - 36		Drawn from the IISI Board of Directors' Ad Hoc Group Report on Energy and the Iron and Steel Industry, updated by IISI Statistical Respondents.
37 - 44		Based on published data from national sources, supplied to IISI by statistical respondents.

* World Steel in Figures, published Annually

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