



PATTERN OF INTERNATIONAL TRADE
IN CHROMITE AND FERROCHROMIUM

AN HISTORICAL PERSPECTIVE

by

EDWARD NORMAN EADIE

MSc(Melb) DPhil(Oxon) BSc(Econ)(Lond) LL.M(Lond) MBus(MaritMgt)(AMC)

Department of Commerce

Faculty of Economics and Commerce

The University of Adelaide

Thesis submitted to the
Board of Graduate Studies
for the degree of
Doctor of Philosophy

Volume 2

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1997

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Table 1.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1892-1899
 Thousands of tonnes

Country	1892	1893	1894	1895	1896	1897	1898	1899
Turkey	14(e)	14	20	21	20	12	8(e)	5
Soviet Union (c ₁)	3	15	8	21	7	13	15	19
United States	2	2	3	2	1	(s)	(s)	(s)
Greece	1	2	6	3	2	1	1	4
Yugoslavia (c ₂)	1	1	2	1	(s)	(s)	(s)	(s)
New Caledonia	1	(s)	1	8	16	9	14	12
Australia (c ₃)	-	-	3	4	4	3	2	5
Canada (c ₄)	-	-	1	3	2	5	2	3
Norway	-	-	-	(s)	-	-	-	(s)
Total	22	33	43	62	52	44	44	49

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimate.

(c₁) Russia shown as Soviet Union.

(c₂) Bosnia shown as Yugoslavia.

(c₃) New South Wales shown as Australia.

(c₄) Newfoundland included in Canada.

Source: Based on official statistics of producing countries recorded in The Mineral Industry, 1897-1903 (published annually), The Engineering and Mining Journal (Inc.).

Table 2.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1900-1909

Thousands of tonnes

Country	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Soviet Union (c ₁)	18	22	20	16	27	27	17	26	11	22
New Caledonia	10	17	10	21	42	51	57	25	47	40
Turkey	10	41	(n)	(n)	(n)	(n)	(n)	21	28	11
Greece	6	5	12	8	15	9	12	12	4	10
Australia (c ₂)	3	3	(s)	2	(s)	(s)	(s)	(s)	-	-
Canada (c ₃)	2	1	1	3	6	8	8	7	7	2
Norway	(s)	(s)	(s)	-	(s)	-	-	-	-	-
Yugoslavia (c ₄)	(s)	1	(s)	(s)	(s)	(s)	(s)	(s)	1	(s)
United States	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)	1
India	-	-	-	(s)	4	3	4	19	5	9
Zimbabwe	-	-	-	-	-	-	3	7	12	37
Total	50	90	43(t)	52(t)	94(t)	98(t)	102(t)	117	115	133

(s) Small chromite production of less than 500 tonnes recorded.

(n) No reliable production statistics for Turkey published, but during period 1902-1906 production decreased to a few thousand tonnes per year.

(t) Does not include production from Turkey.

(c₁) Russia shown as Soviet Union.

(c₂) New South Wales shown as Australia.

(c₃) Newfoundland included in Canada.

(c₄) Bosnia shown as Yugoslavia.

Cont.....

Table 2. (continued)

Source: Based on official statistics of producing countries recorded in The Mineral Industry, 1903-1915 (published annually), The Engineering and Mining Journal (Inc.).

Table 3.
WORLD CHROMITE PRODUCTION
BY COUNTRY
1910-1919

Thousands of tonnes

Country	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
New Caledonia	40	83	52	63	42	67	74	42	26	24
Zimbabwe	40	48	63	63	49	62	81	74	32	32
Turkey	12	17	(n ₁)	26	10	(n ₁)	(n ₁)	(n ₁)	14	4
Greece	9	5	6	6	7	10	10	7	3	4
Japan	2	2	-	-	2	3	8	9	6	6
India	2	2	-	-	2	3	20	27	59	37
Soviet Union (c ₁)	1	1	21	(n ₂)	(n ₂)	(n ₂)	(n ₂)	(n ₂)	16	-
Yugoslavia (c ₂)	(s)	(s)	(s)	(s)	1	-	-	-	1	1
Canada	(s)	(s)	-	-	(s)	11	25	33	20	9
United States	(s)	(s)	(s)	(s)	1	3	48	44	84	5
Australia	-	(s)	(s)	-	-	-	-	1	(s)	-
Guatemala	-	-	-	-	-	-	-	2	1	2
Brazil	-	-	-	-	-	-	-	-	18	5
Cuba	-	-	-	-	-	-	-	-	9	15
Mexico	-	-	-	-	-	-	-	-	(n ₃)	-
Total	107	159	145(t ₁)	165(t ₂)	117(t ₂)	160(t ₃)	266(t ₂)	239(t ₂)	288(t ₄)	142

(s) Small chromite production of less than 500 tonnes recorded.

(n₁) No complete statistics for Turkey available, but production probably only a few thousand tonnes per year.

Cont.....

Table 3. (continued)

(n ₂)	No statistics available for Soviet Union.
(n ₃)	Some production from Mexico reported, but quantity not known.
(t ₁)	Does not include production from Turkey.
(t ₂)	Does not include production from Turkey or Soviet Union.
(t ₃)	Does not include production from Soviet Union.
(t ₄)	Does not include production from Mexico.
(c ₁)	Russia shown as Soviet Union.
(c ₂)	Bosnia shown as Yugoslavia.

Source: Based on official statistics of producing countries recorded in The Mineral Industry, 1915-1923 (published annually), The Engineering and Mining Journal (Inc.).

Table 4.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1920-1929

Thousands of tonnes

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
New Caledonia	92	29	11	23	23	35	34	43	57	53
Zimbabwe	55	46	85	88	157	123	164	198	199	266
India	27	35	23	55	46	38	34	58	46	50
Turkey	25	10	3	(n)	(n)	8	7	18	12	15
Greece	12	8	9	15	15	8	20	17	21	24
Canada	10	3	1	3	-	-	-	-	-	-
Japan	4	4	4	5	5	6	7	10	10	9
Brazil	4	-	-	-	-	-	2	2	(s)	(s)
United States	3	(s)	(s)	(s)	(s)	(s)	(s)	(s)	1	(s)
Soviet Union	2	2	(s)	1	12	30	30	19	26	53
Guatemala	1	(s)	-	-	-	-	(s)	-	-	-
Cuba	1	1	(s)	11	20	30	37	17	34	54
Australia	(s)	-	-	1	1	1	1	-	-	(s)
South Africa	-	1	(s)	-	5	14	12	17	32	64
Yugoslavia	-	-	(s)	(n)	(s)	12	16	9	17	43
United Kingdom	-	-	-	1	1	(s)	-	(s)	-	-
Norway	-	-	-	(s)	(s)	(s)	(s)	-	-	-
Rumania	-	-	-	(s)	-	-	-	-	-	-
Cyprus	-	-	-	-	3	2	1	1	-	2
Vietnam (c)	-	-	-	-	(s)	-	-	-	-	(s)
Total	235	139	136	202(t_1)	288(t_2)	308	364	410	458	635

Table 4. (continued)

- (s) Small chromite production of less than 500 tonnes recorded.
- (n) Data not available.
- (t₁) Does not include production from Turkey or Yugoslavia.
- (t₂) Does not include production from Turkey.
- (c) Indo-China shown as Vietnam.

Source: Based on official statistics of producing countries recorded in The Mineral Industry, 1923-1931 (published annually), The Engineering and Mining Journal (Inc.).

Table 5.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1930-1939

Thousands of tonnes

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Zimbabwe	206	82	16	35	72	106	183	276	186	139
Soviet Union	82	87	62	112	131	184	217	200(e)	(n)	(n)
New Caledonia	62	74	69	50	55	55	48	48	52	52
Yugoslavia	52	58	44	23	47	52	54	60	58	60
India	51	20	18	16	22	40	50	63	45	50
Cuba	42	15	1	24	50	49	71	95	34	60
Turkey	28	25	55	75	120	150	164	193	214	192
Greece	23	5	2	15	31	30	47	53	42	57
South Africa	14	23	19	34	61	90	176	169	177	160
Japan	11	3	12	20	27	36	39	40(e)	(n)	(n)
Cyprus	2	(s)	1	-	1	1	1	2	6	8
Vietnam (c)	1	10	-	-	-	-	-	-	-	-
Australia	(s)	(s)	(s)	1	2	1	(s)	(s)	1	(s)
Bulgaria	(s)	(s)	(s)	(s)	(s)	(s)	(s)	2	2	4
Guatemala	(s)	(s)	-	2	1	-	-	-	1	1
United States	(s)	(s)	(s)	1	(s)	1	(s)	2	1	4
Brazil	(s)	-	-	-	-	(s)	4	3	1	4
Norway	-	-	(s)	(s)	(s)	-	-	(s)	1	(s)
Canada	-	-	(s)	(s)	(s)	1	1	4	-	-

Cont.....

Table 5. (continued)

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Philippines	-	-	-	-	-	1	12	70	67	127
United Kingdom	-	-	-	-	-	-	-	=	1	(n)
Sierra Leone	-	-	-	-	-	-	-	1	1	11
Syria & Lebanon	-	-	-	-	-	-	-	-	1	(n)
Albania	-	-	-	-	-	-	-	-	(n)	3(e)
Total	574	402	299	409	621	798	1,068	1,280(t)	1,128(t)	1,167(t)

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimate.

(n) Not known.

(t) Total includes estimates for some countries.

(c) Indo-China shown as Vietnam.

Source: Based on official statistics of producing countries recorded in The Mineral Industry, 1938-1941 (published annually), The Engineering and Mining Journal (Inc.), and in Minerals Yearbook, 1940-1942 (published annually), U.S. Bureau of Mines.

Table 6.
WORLD CHROMITE PRODUCTION
BY COUNTRY

1940-1949

Thousands of tonnes

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Zimbabwe	248	324	348	287	277	186	151	155	231	244
Soviet Union	(n)	(n)	(n)	325(e)	(n)	(n)	300(e)	500(e)	600(e)	350(e)
Philippines	201	300(e)	50(e)	60(e)	70(e)	(n)	59	195	257	247
Turkey	170	150	145	197	185	147	103	157	286	452
South Africa	164	142	338	163	89	99	212	373	413	404
Yugoslavia	71	(n)	100(e)	65(e)	(n)	(n)	68(e)	55(e)	38(e)	109
Japan	57	55	68	59	71	29	7	2	9	27
India	56	51	50	34	40	31	46	35	23	20
New Caledonia	56	65	68	47	55	41	25	51	75	89
Cuba	52	163	286	354	192	173	174	159	117	97
Greece	30	16	24	16	18	2	9	3	2	3
Sierra Leone	18	15	15(e)	16	10	1	10	17	8	22
Albania	14(e)	20(e)	5(e)	(n)	(n)	(n)	-	-	17	(n)
Bulgaria	6	(n)	7(e)	7(e)	(n)	(n)	(n)	(n)	(n)	(n)
Brazil	5	6	6	8	5	1	(s)	-	2	(s)
United States	3	13	102	145	41	13	4	1	3	(s)
Cyprus	3	5	3	8	(s)	1	1	5	7	15
United Kingdom	1	(n)	1(e)	1(e)	(n)	(n)	(n)	(n)	(n)	(n)

Cont.....

Table 6. (continued)

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Canada	(s)	2	10	27	25	5	3	2	2	(s)
Australia	(s)	(s)	(s)	(s)	1	(n)	-	-	-	1
Guatemala	(s)	1	1	(s)	(s)	(s)	1	1	(s)	(s)
Mexico	(n)	(s)	(s)	-	-	-	-	-	-	-
Argentina	-	(s)	(s)	(s)	(s)	(n)	-	-	-	-
Vietnam	-	-	4	7	2	-	(n)	(n)	(n)	(n)
Egypt	-	-	(s)	1	(s)	(s)	-	(s)	(s)	(s)
Sweden	-	-	(s)	(s)	(s)	-	(n)	(n)	(n)	(n)
Portugal	-	-	-	1	2	2	1	(s)	(s)	(s)
Iran	-	-	-	(s)	1	(n)	(n)	(n)	(n)	(n)
Norway	-	-	-	-	-	(n)	-	-	-	-
Pakistan	(p)	(p)	(p)	(p)	(p)	(p)	(p)	22	18	17
Afghanistan	-	-	-	-	-	-	-	-	-	1
Total (t)	1,458	1,835	2,030	1,828	1,450	1,100	1,200	1,700	2,100	2,100

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimated.

(n) Not known.

(t) Total includes estimates for some countries.

(p) Prior to 1947 Pakistan included with India.

Source: Based on statistics recorded in Minerals Yearbook, 1946-1953 (published annually), U.S. Bureau of Mines.

Table 7.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1950-1959

Thousands of tonnes

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
South Africa	496	545	580	724	641	542	627	666	631	680
Soviet Union (e)	454	544	544	544	544	680	739	771	798	853
Turkey	423	619	807	913	562	649	833	955	573	388
Zimbabwe	292	300	323	420	401	408	407	593	561	493
Philippines	251	335	544	557	401	595	709	726	416	653
Yugoslavia	115	100	107	126	124	126	119	120	114	107
New Caledonia	85	89	108	122	85	46	49	64	47	44
Cuba	66	79	62	70	73	77	54	115	75(e)	40(e)
Albania	52	45 (e)	52 (e)	55	117	122	132	167	201	248
Japan	33	41	47	38	33	27	40	46	42	58
Cyprus	18	13	13	8	9	9	5	5	12	12
Pakistan	18	18	17	23	22	29	23	16	24	16
India	17	17	37	66	46	91	54	80	64	96
Greece	13	25	32	37	27	25	79	87	66	21
Sierra Leone	8	16	24	25	19	21	20	16	14	18
Brazil	3	2	3	4	2	4	4	8	5	6
Australia	1	1	1	3	5	-	6	3	1	(s)
Afghanistan	1	(s)	-	-	-	-	-	-	-	-
United States	(s)	6	19	53	148	139	188	151	140	95

Cont.

Table 7. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Guatemala	(s)	1	(s)	(s)	(s)	(s)	1(e)	1(e)	1	(s)
Portugal	(s)	(s)	(s)	(s)	(s)	-	-	-	-	-
Egypt	(s)	-	-	(s)	1	1	(s)	(s)	-	(s)
Iran	-	9	20	21	21	35	33	39	35(e)	55
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Rumania	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Argentina	-	-	-	-	(n)	-	-	-	-	-
Vietnam (c)	-	-	-	-	-	-	-	-	-	7(e)
Columbia	-	-	-	-	-	-	-	-	-	(s)
Total (t ₁)	2,359	2,812	3,357	3,901	3,289	3,647	4,141	4,645	3,833	3,915
(t ₂)	2,347	2,805	3,340	3,810	3,281	3,626	4,122	4,629	3,820	3,891

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimated.

(n) Not known.

(t₁) Total includes estimates for countries where production shown in table as estimated or not known.

(t₂) Total includes estimates only where actually shown.

(c) North Vietnam.

Source: Based on statistics recorded in Minerals Yearbook, 1954-1963 (published annually), U.S. Bureau of Mines.

Table 8.
WORLD CHROMITE PRODUCTION
BY COUNTRY

1960-1969

Thousands of tonnes

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Soviet Union (e)	916	921	1,152	1,229	1,302	1,420	1,570	1,570	1,651	1,700
South Africa	772	898	913	792	850	942	1,061	1,149	1,153	1,198
Philippines	734	640	531	459	468	555	560	420	439	469
Zimbabwe	606	536	461	374	448	586	318(e)	318(e)	381(e)	363(e)
Turkey	481	403	527	284	413	567	529	371	419	454
Albania	289	232	251	294	307	310	327	327	388	429
Yugoslavia	101	108	97	94	88	80	54	47	45	39
India	100	49	67	69	35	60	78	110	206	227
United States	97	74	-	-	-	-	-	-	-	-
Iran	68	74	90(e)	100(e)	98(e)	129(e)	141(e)	109(e)	90(e)	150(e)
Japan	67	70	58	44	44	42	33	45	28	30
New Caledonia	39	37	15	-	-	-	-	1	-	-
Greece	35	31	56	51	51	51	56	12	13	24
Cuba	30	25(e)	35(e)	56	(n)	(n)	(n)	(n)	(n)	(n)
Vietnam (c)	19(e)	29(e)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Pakistan	18	26	21	15	14	14	27	26	26	23
Cyprus	14	18	7	5	3	5	10	22	25	24
Brazil	6	15	25	17	9	17	15	15	17	15
Sierra Leone	5	-	11	3	-	-	-	-	-	-

Cont.....

Table 8. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Australia	1	-	(s)	(s)	(s)	(s)	-	(s)	-	-
Egypt	(s)	1	-	-	-	-	-	-	-	-
Guatemala	(s)	(s)	(s)	-	-	-	-	-	-	-
Colombia	(s)	(s)	(s)	(s)	(s)	(s)	-	(n)	-	(s)
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Rumania	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	-	-
Malagasy	-	11	18	11	12	2	-	-	-	80
Sudan	-	-	8	17(e)	17(e)	30(e)	17(e)	25	22	25
Finland	-	-	-	-	-	-	(n)	6	36	72
North Korea	-	-	-	-	-	-	-	(n)	(n)	(n)
Total (t ₁)	4,432	4,200	4,409	3,968	(n)	(n)	(n)	(n)	(n)	(n)
(t ₂)	4,399	4,198	4,344	3,914	4,158	4,809	4,711	4,574	4,939	5,321

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimated.

(n) Not known.

(t₁) Total includes estimates for countries where production shown in table as estimated or not known.

(t₂) Total includes estimates only where actually shown.

(c) North Vietnam.

Source: Based on statistics recorded in Minerals Yearbook, 1964-1971 (published annually), U.S. Bureau of Mines.

Table 9.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1970-1979

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Soviet Union(e)	1,751	1,796	1,851	1,905	1,950	2,077	2,087	2,177	2,313	2,313
South Africa	1,427	1,644	1,483	1,649	1,877	2,076	2,410	3,059	3,144	3,297
Philippines	566	430	349	581	530	520	431	538	540	556
Turkey(e)	519	603	395	436	666	717	581	508	375	454
Albania	468	502	558(e)	611	715	779(e)	830(e)	880(e)	989(e)	1,016(e)
Zimbabwe (e)	363	544	544	544	590	590	864	677	478	542
India	271	261	295	288	396	500(e)	402	353	266	309
Iran	200(e)	176	180	140	175	172	160(e)	233(e)	198(e)	136(e)
Malagasy	131	150	112	158	156	194	221	165	138	128
Finland	121	112	97	148	165	331	341	402	407	435
Sudan	47	21	23	32	20	15	22	19	20	31
Yugoslavia	41	34	28	10	1	2	2	2	2	(s)
Cyprus	34	42	24	30	34	27	9	15	15	15
Japan	33	32	24	24	26	24	22	18	9	12
Pakistan	29	24	26	17	10	10	11	8	11	3
Brazil	27	28(e)	71	73	108	173	186	310	269	340
Greece	26	15	22	18	10	35	34	42(e)	37	44
Columbia	(s)	1	-	12	12(e)	12(e)	-	-	-	-
Argentina	(s)	(s)	(s)	-	(s)	-	-	-	-	-
Cuba	(n)	20(e)	20(e)	20(e)	20(e)	32(e)	19	20	29	28

Table 9. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Egypt	-	-	-	1	(s)	(s)	(s)	1	1	(s)
Vietnam(c)	(n)	(n)	(n)	(n)	-	(n)	14(e)	13(e)	13(e)	14(e)
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
North Korea	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
New Caledonia	-	-	-	-	-	2	10	8	8	13
Thailand	-	-	-	-	-	(s)	-	1	(s)	(s)
China	-	-	-	-	-	-	(n)	(n)	(n)	(n)
Total(e)	6,053	6,435	6,101	6,696	7,461	8,288	8,656	9,448	9,263	9,685

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimated.

(n) Not known.

(c) North Vietnam.

Source: Based on statistics recorded in Minerals Yearbook, 1972-1977 (published annually), U.S. Bureau of Mines, and in Minerals Yearbook, 1980 & 1981 Preprints, U.S. Bureau of Mines.

Table 10.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY

1980

Thousands of tonnes

Country	1980(p)
South Africa	3,414
Soviet Union(e)	2,449
Albania(e)	1,080
Zimbabwe	552
Philippines	496
Turkey(e)	399
Finland	341
India	319
Brazil	287
Malagasy	180
Iran(e)	82
Greece	43
Cuba	30
Sudan	28
Cyprus	16
Vietnam(e)	15
Japan	14
Pakistan	3
New Caledonia	2
Bulgaria	(n)

Cont.....

Table 10. (continued)

<u>Country</u>	<u>1980(p)</u>
North Korea	(n)
China	(n)
<hr/>	
Total	9,749
<hr/>	

(p) Preliminary.

(s) Small chromite production of less than 500 tonnes recorded.

(e) Estimated.

(n) Not known.

Source: Based on statistics recorded in Minerals Yearbook, 1980 & 1981
Preprints, U.S. Bureau of Mines.

Table 11.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY

1892-1899

Percentage of World Total

Country	1892	1893	1894	1895	1896	1897	1898	1899
Turkey	64(e)	42	47	34	38	27	18(e)	10
Soviet Union (c ₁)	14	45	19	34	13	30	34	39
United States	9	6	7	3	2	-	-	-
Greece	5	6	14	5	4	2	2	8
Yugos- lavia (c ₂)	5	3	5	2	-	-	-	-
New Caledonia	5	-	2	13	31	20	32	24
Australia (c ₃)	-	-	7	6	8	7	4	10
Canada (c ₄)	-	-	2	5	4	11	4	6
Norway	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100

(e) Estimate.

(c₁) Russia shown as Soviet Union.

(c₂) Bosnia shown as Yugoslavia.

(c₃) New South Wales shown as Australia.

(c₄) Newfoundland included in Canada.

Source: Based on data given in Table 1 above.

Table 12.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1900-1909
 Percentage of World Total

Country	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Soviet Union (c ₁)	36	24	47	31	29	28	17	22	10	17
New Caledonia	20	19	23	40	45	52	56	21	41	30
Turkey	20	46	(n)	(n)	(n)	(n)	(n)	18	24	8
Greece	12	6	28	15	16	9	12	11	3	8
Australia(c ₂)	6	3	-	4	-	-	-	-	-	-
Canada (c ₃)	4	1	2	6	6	8	8	6	6	2
Norway	-	-	-	-	-	-	-	-	-	-
Yugoslavia (c ₄)	-	1	-	-	-	-	-	-	1	-
United States	-	-	-	-	-	-	-	-	-	1
India	-	-	-	-	4	3	4	16	4	7
Zimbabwe	-	-	-	-	-	-	3	6	10	28
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known

(c₁) Russia shown as Soviet Union.

(c₂) New South Wales shown as Australia.

(c₃) Newfoundland included in Canada.

(c₄) Bosnia shown as Yugoslavia.

Source: Based on data given in Table 2 above.

Table 13.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1910-1919

Percentage of World Total

Country	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
New Caledonia	37	52	36	38	36	42	28	18	9	17
Zimbabwe	37	30	43	38	42	39	30	31	11	23
Turkey	11	11	(n)	16	9	(n)	(n)	(n)	5	3
Greece	8	3	4	4	6	6	4	3	1	3
Japan	2	1	-	-	2	2	3	4	2	4
India	2	1	-	-	2	2	8	11	20	26
Soviet Union (c ₁)	1	1	14	(n)	(n)	(n)	(n)	(n)	6	-
Yugoslavia (c ₂)	-	-	-	-	1	-	-	-	-	1
Canada	-	-	-	-	-	7	9	14	7	6
United States	-	-	-	-	1	2	18	18	29	4
Australia	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	1	-	1
Brazil	-	-	-	-	-	-	-	-	6	4
Cuba	-	-	-	-	-	-	-	-	3	11
Mexico	-	-	-	-	-	-	-	-	(n)	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known

(c₁) Russia shown as Soviet Union.

(c₂) Bosnia shown as Yugoslavia.

Source: Based on data given in Table 3 above.

Table 14.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1920-1929

Percentage of World Total

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
New Caledonia	39	21	8	11	8	11	9	11	12	8
Zimbabwe	23	33	62	44	55	40	45	48	43	42
India	11	25	17	27	16	12	9	14	10	8
Turkey	11	7	2	(n)	(n)	3	2	4	3	2
Greece	5	6	7	7	5	3	6	4	5	4
Canada	4	2	1	1	-	-	-	-	-	-
Japan	2	3	3	2	2	2	2	2	2	1
Brazil	2	-	-	-	-	-	1	1	-	-
United States	1	-	-	-	-	-	-	-	-	-
Soviet Union	1	1	-	1	4	10	8	5	6	8
Guatemala	-	-	-	-	-	-	-	-	-	-
Cuba	-	1	-	5	7	10	10	4	7	9
Australia	-	-	-	1	-	-	-	-	-	-
South Africa	-	1	-	-	2	5	3	4	7	10
Yugoslavia	-	-	-	(n)	-	4	4	2	4	7
United Kingdom	-	-	-	1	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Rumania	-	-	-	-	-	-	-	-	-	-
Cyprus	-	-	-	-	1	1	-	-	-	-

Cont.....

Table 14. (continued)

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Vietnam (c)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(c) Indo-China shown as Vietnam.

Source: Based on data given in Table 4 above.

Table 15.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1930-1939

Percentage of World Total

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Zimbabwe	36	20	5	9	12	13	17	22	16	12
Soviet Union	14	22	21	27	21	23	20	16(e)	(n)	(n)
New Caledonia	11	18	23	12	9	7	5	4	5	4
Yugoslavia	9	14	15	6	8	6	5	5	5	5
India	9	5	6	4	4	5	5	5	4	4
Cuba	7	4	-	6	8	6	7	7	3	5
Turkey	5	6	18	18	19	19	15	15	19	16
Greece	4	1	1	4	5	4	4	4	4	5
South Africa	2	6	6	8	10	11	16	13	16	14
Japan	2	1	4	5	4	5	4	3(e)	(n)	(n)
Cyprus	-	-	-	-	-	-	-	-	1	1
Vietnam (c)	-	3	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 15. (continued)

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Philippines	-	-	-	-	-	-	1	5	6	11
United Kingdom	-	-	-	-	-	-	-	-	-	(n)
Sierra Leone	-	-	-	-	-	-	-	-	-	1
Syria & Lebanon	-	-	-	-	-	-	-	-	-	(n)
Albania	-	-	-	-	-	-	-	-	(n)	-(e)
Total	100	100	100	100	100	100	100	100	100	100

(e) Estimate.

(n) Not known.

(c) Indo-China shown as Vietnam.

Source: Based on data given in Table 5 above.

Table 16.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1940-1949

Percentage of World Total

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Zimbabwe	17	18	17	16	19	17	13	9	11	12
Soviet Union	(n)	(n)	(n)	18(e)	(n)	(n)	25(e)	29(e)	29(e)	17(e)
Philippines	14	16(e)	2(e)	3(e)	5(e)	(n)	5	11	12	12
Turkey	12	8	7	11	13	13	9	9	14	22
South Africa	11	8	17	9	6	9	18	22	20	19
Yugoslavia	5	(n)	5(e)	4(e)	(n)	(n)	6(e)	3(e)	2(e)	5
Japan	4	3	3	3	5	3	1	-	-	1
India	4	3	2	2	3	3	4	2	1	1
New Caledonia	4	4	3	3	4	4	2	3	4	4
Cuba	4	9	14	19	13	16	15	9	6	5
Greece	2	1	1	1	1	-	1	-	-	-
Sierra Leone	1	1	1(e)	1	1	-	1	1	-	-
Albania	1(e)	1(e)	-(e)	(n)	(n)	(n)	-	-	1	(n)
Bulgaria	-	(n)	-(e)	-(e)	(n)	(n)	(n)	(n)	(n)	(n)
Brazil	-	-	-	-	-	-	-	-	-	-
United States	-	1	5	8	3	1	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-	-	1
United Kingdom	-	(n)	-(e)	-(e)	(n)	(n)	(n)	(n)	(n)	(n)

Cont.....

Table 16. (continued)

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Canada	-	-	-	1	2	-	-	-	-	-
Australia	-	-	-	-	-	(n)	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
Mexico	(n)	-	-	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	(n)	-	-	-	-
Vietnam	-	-	-	-	-	-	(n)	(n)	(n)	(n)
Egypt	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	(n)	(n)	(n)	(n)
Portugal	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	(n)	(n)	(n)	(n)	(n)
Norway	-	-	-	-	-	(n)	-	-	-	-
Pakistan	(p)	(p)	(p)	(p)	(p)	(p)	(p)	1	1	1
Afghanistan	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known

(p) Prior to 1947 Pakistan included with India.

Source: Based on data given in Table 6 above.

Table 17.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1950-1959

Percentage of World Total

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
South Africa	21	19	17	19	20	15	15	14	17	17
Soviet Union (e)	19	19	16	14	17	19	18	17	21	22
Turkey	18	22	24	24	17	18	20	21	15	10
Zimbabwe	12	11	10	11	12	11	10	13	15	13
Philippines	11	12	16	15	12	16	17	16	11	17
Yugoslavia	5	4	3	3	4	3	3	3	3	3
New Caledonia	4	3	3	3	3	1	1	1	1	1
Cuba	3	3	2	2	2	2	1	2	2(e)	1(e)
Albania	2	2(e)	2(e)	1	4	3	3	4	5	6
Japan	1	1	1	1	1	1	1	1	1	1
Cyprus	1	-	-	-	-	-	-	-	-	-
Pakistan	1	1	1	1	1	1	1	-	1	-
India	1	1	1	2	1	2	1	2	2	2
Greece	1	1	1	1	1	1	2	2	2	1
Sierra Leone	-	1	1	1	1	1	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Afghanistan	-	-	-	-	-	-	-	-	-	-
United States	-	-	1	1	4	4	5	3	4	2
Guatemala	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 17. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Portugal	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Iran	-	-	1	1	1	1	1	1	1(e)	1
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Rumania	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Argentina	-	-	-	-	(n)	-	-	-	-	-
Vietnam (c)	-	-	-	-	-	-	-	-	-	-(e)
Columbia	-	-	-	-	-	-	-	-	-	-
Total (t)	100	100	100	100	100	100	100	100	100	100

(e) Estimate.

(n) Not known.

(t) Based on total containing estimates only where actually shown.

(c) North Vietnam.

Source: Based on data given in Table 7 above.

Table 18.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1960-1969

Percentage of World Total

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Soviet Union (e)	21	22	26	31	31	30	33	34	33	32
South Africa	18	21	21	20	20	20	22	25	23	23
Philippines	17	15	12	12	11	12	12	9	9	9
Zimbabwe	14	13	11	10	11	12	7(e)	7(e)	8(e)	7(e)
Turkey	11	10	12	7	10	12	11	8	8	9
Albania	7	6	6	7	7	6	7	7	8	8
Yugoslavia	2	3	2	2	2	2	1	1	1	1
India	2	1	1	2	1	1	2	2	4	4
United States	2	2	-	-	-	-	-	-	-	-
Iran	1	2	2(e)	3(e)	2(e)	3(e)	3(e)	2(e)	2(e)	3(e)
Japan	1	2	1	1	1	1	1	1	1	1
New Caledonia	1	1	-	-	-	-	-	-	-	-
Greece	1	1	1	1	1	1	1	-	-	-
Cuba	1	1(e)	1(e)	1	(n)	(n)	(n)	(n)	(n)	(n)
Vietnam (c)	-(e)	1(e)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Pakistan	-	1	-	-	-	-	1	1	1	-
Cyprus	-	-	-	-	-	-	-	-	1	-
Brazil	-	-	1	-	-	-	-	-	-	-
Sierra Leone	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 18. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Egypt	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
Columbia	-	-	-	-	-	-	-	(n)	-	-
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
Rumania	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	-	-
Malagasy	-	-	-	-	-	-	-	-	-	2
Sudan	-	-	-	-(e)	-(e)	1(e)	-(e)	1	-	-
Finland	-	-	-	-	-	-	(n)	-	1	1
North Korea	-	-	-	-	-	-	-	(n)	(n)	(n)
Total (t)	100	100	100	100	100	100	100	100	100	100

(e) Estimate.

(n) Not known.

(t) Based on total containing estimates only where actually shown.

(c) North Vietnam.

Source: Based on data given in Table 8 above.

Table 19.
WORLD CHROMITE PRODUCTION
BY COUNTRY
1970-1979

Percentage of World Total

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Soviet Union(e)	29	28	30	28	26	25	24	23	25	24
South Africa	24	26	24	25	25	25	28	32	34	34
Philippines	9	7	6	9	7	6	5	6	6	6
Turkey(e)	9	9	6	7	9	9	7	5	4	5
Albania	8	8	9(e)	9	10	9(e)	10(e)	9(e)	11(e)	10(e)
Zimbabwe(e)	6	8	9	8	8	7	10	7	5	6
India	4	4	5	4	5	6(e)	5	4	3	3
Iran	3(e)	3	3	2	2	2	2(e)	2(e)	2(e)	1(e)
Malagasy	2	2	2	2	2	2	3	2	1	1
Finland	2	2	2	2	2	4	4	4	4	4
Sudan	1	-	-	-	-	-	-	-	-	-
Yugoslavia	1	1	-	-	-	-	-	-	-	-
Cyprus	1	1	-	-	-	-	-	-	-	-
Japan	1	-	-	-	-	-	-	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-
Brazil	-	-(e)	1	1	1	2	2	3	3	4
Greece	-	-	-	-	-	-	-	-(e)	-(e)	1(e)
Columbia	-	-	-	-	-(e)	-(e)	-(e)	-(e)	-(e)	-(e)
Argentina	-	-	-	-	-	-	-	-	-	-
Cuba	(n)	-(e)	-(e)	-(e)	-(e)	-(e)	-	-	-	-

Cont.....

Table 19. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Egypt	-	-	-	-	-	-	-	-	-	-
Vietnam(c)	(n)	(n)	(n)	(n)	-	(n)	-(e)	-(e)	-(e)	-(e)
Bulgaria	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
North Korea	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
New Caledonia	-	-	-	-	-	-	-	-	-	-
Thailand	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	(n)	(n)	(n)	(n)
Total(e)	100	100	100	100	100	100	100	100	100	100

(e) Estimated.

(n) Not known.

(c) North Vietnam.

Source: Based on data given in Table 9 above.

Table 20.
 WORLD CHROMITE PRODUCTION
 BY COUNTRY
 1980

Percentage of World Total

Country	1980(p)
South Africa	35
Soviet Union(e)	25
Albania(e)	11
Zimbabwe	6
Philippines	5
Turkey(e)	4
Finland	3
India	3
Brazil	3
Malagasy	2
Iran(e)	1
Greece	1
Cuba	-
Sudan	-
Cyprus	-
Vietnam(e)	-
Japan	-
Pakistan	-
New Caledonia	-
Bulgaria	(n)
North Korea	(n)

Cont.....

Table 20. (continued)

Country	1980(p)
China	(n)
Total	100

(p) Preliminary.

(e) Estimate.

(n) Not known.

Source: Based on data given in Table 10 above.

Table 21.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1913-1919

Thousands of tonnes

Country	1913	1914	1915	1916	1917	1918	1919
New Caledonia	63	72	57	75	42	26(a)	33(a)
Zimbabwe	57	46	55	79	54	34	19
Greece	7	9	8	10	10	4	-
India	5	4	1	7	10	41	12
Austria-Hungary	(s)	(s)	1	11	19	-	-
Norway	(s)	(s)	1	3	2	-	(s)
Canada	(n)	(n)	7	11	17	14	8
Brazil	-	-	-	-	-	17	(n)
Cuba	-	-	-	-	-	9(e)	14(a)
Guatemala	-	-	-	-	-	1	1
Total small exports (s)	-	-	-	-	-	-	-
Total	132	131	130	196	154	146	87

(a) Based on information given in The Mineral Industry, 1920 (published 1921), The Engineering and Mining Journal (Inc.).

(s) Small exports of less than 500 tonnes recorded.

(n) Not known.

(e) Estimate.

Source: Based on statistics recorded by Imperial Mineral Resources Bureau in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1913-1920, (published 1921), His Majesty's Stationery Office, London.

Table 22.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1920-1929

Thousands of tonnes

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
New Caledonia	92	29	19	23	15	18	24	43	57	59
Zimbabwe	75	36	80	94	137	132	158	163	165	255
India(a)	38	25	53	31	32	37	41(b)	44(b)	46(b)	33(b)
Canada(a)	7	2	1	3	-	-	-	-	-	-
United Kingdom	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Norway	(s)	-	(s)	(s)	(s)	(s)	(s)	-	-	-
Germany	-	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Czechoslovakia	-	-	(s)	(s)	(s)	(s)	-	(s)	-	-
Greece	-	-	(n)	(n)	14	10	20	16	17	20
Cyprus	-	-	-	-	3	2	(s)	1	-	1
Australia(c)	-	-	-	-	(s)	(s)	(s)	-	-	-
Poland	-	-	-	-	-	-	(s)	-	-	-
Brazil	-	-	-	-	-	-	1	2	(s)	(s)
Yugoslavia	-	-	-	-	-	-	-	10	9	21
Soviet Union(d)	-	-	-	-	-	-	-	2	3	5
Turkey(e)	-	-	-	-	-	-	-	3	(s)	3
South Africa	-	-	-	-	-	-	-	-	24	45
Total small exports(s)	-	-	-	-	-	-	1	1	-	1
Total	212	92	153	151	201	199	245	285	321	443

Table 22. (continued)

- (s) Small exports of less than 500 tonnes recorded.
- (a) For year ended 31st March in the following year.
- (b) Including chromite mined in India, but exported via the Portuguese port of Mormugao.
- (c) For year ended 30th June.
- (d) For year ended 30th September.
- (e) Turkish exports of chromium compounds assumed to be chromite.

Source: Based on statistics recorded by Imperial Mineral Resources Bureau in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1920-1922 (published 1924), His Majesty's Stationery Office, London, and by Mineral Resources Department, Imperial Institute, in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1922-1924 (published 1925) & 1924-1926 (published 1927) & 1926-1928 (published 1929) & 1928-1930 (published 1931), His Majesty's Stationery Office, London.

Table 23.
WORLD CHROMITE EXPORTS
BY COUNTRY OF ORIGIN

1930-1939

Thousands of tonnes

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Zimbabwe	174	88	35	32	66	107	174	259	205	108
New Caledonia	53	38	14	25	37	74	78	70	42	39
Yugoslavia	33	29	20	19	28	22	24	25	23	18
India (a)	30	15	21	17	32	30	39	51	25	38
Turkey	28	25	55	90	121	152	150	198	208	193
Cuba	26	6	-	16	10	49(b)	73	97	35	63
Greece	24	1	1	14	22	32	48	56	36	52
South Africa	23	21	21	27	46	60	99	169	118	169
Soviet Union	15	24	36	41	36	11	-	-	-	-
Vietnam	1	2	1	-	-	-	-	-	-	-
United Kingdom	(s)	(s)	-	-	(s)	-	-	-	-	-
Czechoslovakia	(s)	(s)	-	-	-	-	-	-	-	-
Brazil	(s)	-	-	-	-	-	4	(s)	1	4
Sweden	-	1	(s)	(s)	(s)	(s)	(s)	-	-	-
Cyprus	-	(s)	-	-	-	-	(s)	(s)	8	1
France	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Norway	-	-	-	(s)	(s)	-	-	-	(s)	(s)
Philippines	-	-	-	-	-	1	12	70	67	127

Cont.....

Table 23. (continued)

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Sierra Leone	-	-	-	-	-	-	-	-	1	6
Total small exports(s)	-	-	-	-	-	1	1	1	1	-
Total	407	250	204	281	398	539	702	996	770	818

- (s) Small exports of less than 500 tonnes recorded.
- (a) Including chromite mined in India, but exported via the Portuguese port of Mormugao.
- (b) Cuban exports for 1935 shown in source as not available; but assume exports of 48,500 tonnes based on recorded United States imports from Cuba shown in Table 87 below.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1930-1932 (published 1933) & 1933-1935 (published 1936) & 1936-1938 (published 1939) & 1938-1944 (published 1948), His Majesty's Stationery Office, London.

Table 24.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN

1940-1949

Thousands of tonnes

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Zimbabwe	280	313	348	266	272	208	152	163	226	206
Philippines	194	51(a)	33(a)	38(a)	15(a)	3(a)	(n)	192	242	235
Turkey	182	150	144	79	149	63	36	184	310	353
South Africa	106	211	270	98	51	174	242	304	292	309
New Caledonia	60	102	86	43	17	51	65	44	70	103
Cuba	54	163	142	291	321	274	176	102	163	73
India(b)	48	54	57	23	22	11	17	38	9	6
Soviet Union(c)	40	17	42	91	102	165	101	246	364	104
Greece	33	(n)	(n)	(n)	(n)	(n)	(n)	(n)	1	-
Sierra Leone	16	15	(s)	-	-	12	32	23	8	18
Brazil	5	4	6	8	5	1	(s)	-	2	(s)
Cyprus	3	5	3	8	(s)	1	1	5	7	15
Portugal	(n)	(n)	1	1	(s)	1	1	1	-	1
Yugoslavia	(n)	-	-	-	-	(n)	(n)	(n)	(n)	(n)
United States	(n)	(n)	4	24	1	11	2	3	3	2
Australia	-	(s)	-	-	-	-	(s)	-	(s)	-
France	-	(s)	2	-	(n)	-	-	-	-	-
Sweden	-	(s)	(s)	-	-	-	(s)	(s)	-	-
Total small exports(s)	-	-	-	-	1	-	-	-	-	-
Total	1021	1085	1138	970	956	975	825	1305	1697	1425

Table 24. (continued)

- (s) Small exports of less than 500 tonnes recorded.
- (n) Not known.
- (a) Imports into Japan from Philippines.
- (b) Including chromite mined in India, but exported via the Portuguese port of Mormugao.
- (c) Exports not available. Figures shown are imports into United Kingdom, Germany, Sweden, and United States from Soviet Union.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1938-1944 (published 1948), His Majesty's Stationery Office, London, and by Imperial Institute in The Mineral Industry of the British Commonwealth and Foreign Countries, Statistical Summary, 1941-1947 (published 1949), His Majesty's Stationery Office, London, and by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1945-1951 (published 1953), Her Majesty's Stationery Office, London.

Table 25.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1950-1959

Thousands of tonnes

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
South Africa	492	502	407	514	466	471	561	642	550	609
Turkey	354	505	626	582	356	560	641	571	516	306
Philippines	250	342	516	582	464	414	598	638	397	747
Zimbabwe	242	305	268	430	289	389	463	636	373	500
Cuba	117	91	85	76	9	35	31	113	55	26
Soviet Union	82(a)	21(a)	18(a)	24(a)	(n)	158	219	259	215	272
New Caledonia	74	93	103	112	59	89	49	61	42	45
Yugoslavia	40	53	51	55	8	45	56	36	14	25
Cyprus	18	13	13	7	10	9	6	5	12	12
Sierra Leone	14	13	24	26	16	18	19	17	11	5
Pakistan	12	20	17	20	13	22	35	13	13	14
Greece	9	24	30	28	22	39	40	45	30	21
India	4	8	9	16	24	49	42	42	49	82
United States	2	2	1	1	1	1	2	1	1	10
Austria	(n)	4	2	2	2	2	3	1	1	(s)
Egypt	(n)	(n)	(n)	1	1	-	(s)	(s)	(s)	(s)
Portugal	(s)	-	-	-	-	-	-	-	-	-
Sweden	-	(s)	-	-	-	(s)	(s)	3	-	-
West Germany	-	-	-	-	(s)	(s)	4	1	1	1

Cont.....

Table 25. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Guatemala	-	-	-	-	(n)	1	1	1	-	(s)
Iran(b)	-	-	-	-	(n)	(n)	28	38	37	45
Albania	-	-	-	-	-	-	-	-	-	199
Netherlands	-	-	-	-	-	-	-	-	-	(s)
Total small exports(s)	1	-	-	-	-	-	-	-	-	1
Total	1711	1996	2170	2476	1740	2302	2798	3123	2317	2920

(s) Small exports of less than 500 tonnes recorded.

(n) Not known.

(a) Exports not available. Figures are imports into United Kingdom, Germany, Norway, Sweden, and United States from Soviet Union.

(b) For year ended 20th March in the following year.

Source: Based on statistics recorded by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1950-1955 (published 1957), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Overseas Geological Surveys, in Statistical Summary of the Mineral Industry, 1954-1959 (published 1961) & 1959-1964 (published 1966), Her Majesty's Stationery Office, London.

Table 26.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1960-1969

Thousands of tonnes

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Philippines	796	631	442	484	587	545	578	463	437	515
South Africa	756	860	791	605	638	701	826	701	785	920
Zimbabwe	490	432	392	280	456	635	(n)	(n)	(n)	(n)
Soviet Union	427	438	472	567	663	748	919	1030	1048	1144
Turkey	386	389	350	213	344	424	509	314	387	497
Albania	248	234	269	248	311	298	(n)	323	(n)	(n)
New Caledonia	45	22	15	18	6	-	-	1	-	-
Iran (a)	37	68	74	91	124	160	132	89	62	145
India (b)	30	42	17	12	31	25	70	67	110	143
Greece	29	28	19	15	22	29	21	13	15	26
Cuba	25	30	28	1	18	31	(n)	-	-	-
Yugoslavia	20	6	30	23	24	14	13	7	9	3
Sierra Leone	15	9	9	9	-	-	-	-	-	-
Cyprus	14	19	10	(s)	9	(s)	2	27	24	28
Pakistan	11	13	10	4	23	(n)	(n)	13(c)	2(c)	1(c)
United States	5	9	2	9	6	6	17	7	11	45
West Germany	1	7	1	1	1	2	1	1	1	3
Netherlands	(s)	(s)	1	1	1	1	2	3	4	3
Austria	(s)	1	1	(s)	1	1	(s)	1	(s)	1

Cont.....

Table 26. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Sweden	(s)	-	-	(n)	-	-	-	-	(s)	(s)
Italy	(s)	-	-	1	2	-	(s)	(s)	(s)	(s)
Japan	(n)	(n)	(n)	(n)	(n)	1	(n)	(s)	(s)	-
Malagasy	-	5	19	13	7	8	(s)	-	-	33
Sudan	-	-	-	(s)	11	-	(n)	-	-	-
Total small exports(s)	1	-	-	1	-	-	1	-	-	-
Total	3336	3243	2952	2596	3285	3629	3091(t)	3060(t)	2895(t)	3507(t)

(s) Small exports of less than 500 tonnes recorded.

(n) Not known.

(a) For year ended 20th March in the following year.

(b) For year ended 31st March in the following year.

(c) For year ended 30th June.

(t) Total does not include Zimbabwe or Albania (except for 1967) for which exports not known, and for which large exports recorded prior to 1966.

Source: Based on statistics recorded by Mineral Resources Section, Institute of Geological Sciences Overseas Division, in Statistical Summary of the Mineral Industry, 1960-1965 (published 1967), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Institute of Geological Sciences, in Statistical Summary of the Mineral Industry, 1962-1967 (published 1969) & 1967-1971 (published 1973), Her Majesty's Stationery Office, London.

Table 27.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1970-1979

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Soviet Union	1180	1097	1112	1251	1139	1171	975	673	738	775
South Africa	879	1162	932	1093	1072	1246	1196	1482	1423	1269
Philippines	596	404	383	598	642	501	378	433	456	497
Turkey	546	539	342	405	646	648	608	465	285	322
Albania	452	450	450	466	625	670	690	720	800	(n)
Iran(a)	222	152	101	151	149	77	5	(n)	89	27
India	118	85	110	234	334	359	278	167	67	236
Malagasy	105	114	118	98	180	173	117	116	145	(n)
Pakistan(b)	51	24	22	27	1	-	16	24	4	-
United States	37	32	18	19	16	126	112	170	21	15
Cyprus	31	43	24	30	25	28	12	14	11	11
Sudan	30	23	25	32	18	23	32	4	(n)	(n)
Greece	25	27	18	17	11	19	22	75	20	29
Yugoslavia	11	12	8	3	10	3	(s)	4	6	10
Finland	4	37	15	30	84	150	291	508	364	309
Netherlands	4	5	6	8	35	27	24	19	15	14
West Germany	3	6	8	3	4	3	14	4	3	9
Italy	(s)	1	1	1	2	4	3	2	4	3
France	(s)	(s)	(s)	(s)	1	(s)	(s)	1	1	1
Brazil	(s)	6	37	35	13	(s)	9	71	82	45
Belgium	-	(s)	6	-	(s)	(s)	(s)	1	(s)	(s)

Cont.....

Table 27. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United Kingdom	-	-	1	(s)	4	3	1	(s)	(s)	(s)
Cuba	-	-	1	18	14	39	27	52	(n)	(n)
New Caledonia	-	-	-	-	4	1	9	5	4	12
Austria	-	-	-	-	(s)	(s)	(s)	1	1	1
Japan	-	-	-	-	(s)	(s)	2	3	2	2
Zimbabwe	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	11
Total small exports(s)	1	1	-	-	1	1	1	-	-	-
Total (t ₁)	4295	4219	3738	4519	5030	5272	4822	5014	4541	3598(t ₃)
United States re-exports	-	-	52	31	89	41	77	55	27	26
Total (t ₂)	4295	4219	3790	4550	5119	5313	4899	5069	4568	3624(t ₃)

(s) Small exports of less than 500 tonnes recorded.

(n) Not known.

(a) For year ended 20th March in the following year.

(b) For year ended 30th June.

(t₁) Total does not include United States re-exports, and is comparable with total shown in previous tables.

(t₂) Total includes United States re-exports.

(t₃) Total does not include Albania or Malagasy for which exports not known, and for which large exports recorded prior to 1979.

Cont.....

Table 27. (continued)

Source: Based on statistics recorded by Institute of Geological Sciences in World Mineral Statistics, 1970-74 (published 1978) & 1972-76 (published 1979) & 1974-78 (published 1980) & 1976-80 (in press), Her Majesty's Stationery Office, London.

Table 28.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN (a)
 1980

Thousands of tonnes

<u>Country</u>	<u>1980</u>
South Africa	1,237
Soviet Union	567
Philippines	484
Turkey	335
Finland	207
Greece	32
Iran	29
Netherlands	19
Zimbabwe	15
Yugoslavia	12
Cyprus	8
New Caledonia	7
Japan	6
United States	5
West Germany	5
Italy	2
France	2
United Kingdom	1

Cont.....

Table 28. (continued)

Country	1980
Austria	(s)
Belgium	(s)
Total small exports(s)	-
<hr/>	
Total (t ₁)	2,973
United States re-exports	40
<hr/>	
Total (t ₂)	3,013
<hr/>	

(a) Chromite export figures are not yet available for a number of countries including Albania, India, Malagasy, and Brazil, and the exports of these countries are not included in Total (t₁) or Total (t₂).

(s) Small exports of less than 500 tonnes recorded.

(t₁) Total does not include United States re-exports, and in this regard is comparable with total shown in previous tables.

(t₂) Total includes United States re-exports.

Source: Based on statistics recorded by Institute of Geological Sciences, London, in World Mineral Statistics, 1977-1981 (in press).

Table 29.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1913-1919

Percentage of world total

Country	1913	1914	1915	1916	1917	1918	1919
New Caledonia	48	55	44	38	27	18	38
Zimbabwe	43	35	42	40	35	23	22
Greece	5	7	6	5	6	3	-
India	4	3	1	4	6	28	14
Austria-Hungary	-	-	1	6	12	-	-
Norway	-	-	1	1	1	-	-
Canada	(n)	(n)	5	6	11	10	9
Brazil	-	-	-	-	-	12	(n)
Cuba	-	-	-	-	-	6(e)	16
Guatemala	-	-	-	-	-	1	1
Total small exports(s)	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100

(n) Not known.

(e) Estimate.

Source: Based on data given in Table 21 above.

Table 30.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1920-1929

Percentage of World Total

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
New Caledonia	43	31	12	15	7	9	10	15	18	13
Zimbabwe	35	39	52	62	68	66	64	57	51	58
India	18	27	35	21	16	19	17	15	14	7
Canada	3	2	1	2	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Czechoslovakia	-	-	-	-	-	-	-	-	-	-
Greece	-	-	(n)	(n)	7	5	8	6	5	5
Cyprus	-	-	-	-	1	1	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	1	-	-
Yugoslavia	-	-	-	-	-	-	-	4	3	5
Soviet Union	-	-	-	-	-	-	-	1	1	1
Turkey	-	-	-	-	-	-	-	1	-	1
South Africa	-	-	-	-	-	-	-	-	7	10
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

Cont.....

Table 30. (continued)

(n) Not known.

Source: Based on data given in Table 22 above.

Table 31. (continued)

Source: Based on data given in Table 23 above.

Table 32.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1940-1949
 Percentage of World Total

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Zimbabwe	27	29	31	27	28	21	18	12	13	14
Philippines	19	5	3	4	2	-	(n)	15	14	16
Turkey	18	14	13	8	16	6	4	14	18	25
South Africa	10	19	24	10	5	18	29	23	17	22
New Caledonia	6	9	8	4	2	5	8	3	4	7
Cuba	5	15	12	30	34	28	21	8	10	5
India	5	5	5	2	2	1	2	3	1	-
Soviet Union	4	2	4	9	11	17	12	19	21	7
Greece	3	(n)	(n)	(n)	(n)	(n)	(n)	(n)	-	-
Sierra Leone	2	1	-	-	-	1	4	2	-	1
Brazil	-	-	-	1	-	-	-	-	-	-
Cyprus	-	-	-	1	-	-	-	-	-	1
Portugal	(n)	(n)	-	-	-	-	-	-	-	-
Yugoslavia	(n)	-	-	-	-	(n)	(n)	(n)	(n)	(n)
United States	(n)	(n)	-	2	-	1	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	(n)	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

Cont.....

Table 32.: (continued)

(n) Not known.

Source: Based on data given in Table 24 above.

Table 33.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1950-1959
 Percentage of World Total

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
South Africa	29	25	19	21	27	20	20	21	24	21
Turkey	21	25	29	24	20	24	23	18	22	10
Philippines	15	17	24	24	27	18	21	20	17	26
Zimbabwe	14	15	12	17	17	17	17	20	16	17
Cuba	7	5	4	3	1	2	1	4	2	1
Soviet Union	5	1	1	1	(n)	7	8	8	9	9
New Caledonia	4	5	5	4	3	4	2	2	2	2
Yugoslavia	2	3	2	2	-	2	2	1	1	1
Cyprus	1	1	1	-	1	-	-	-	1	-
Sierra Leone	1	1	1	1	1	1	1	1	-	-
Pakistan	1	1	1	1	1	1	1	-	1	-
Greece	-	1	1	1	1	2	1	1	1	1
India	-	-	-	1	1	2	2	1	2	3
United States	-	-	-	-	-	-	-	-	-	-
Austria	(n)	-	-	-	-	-	-	-	-	-
Egypt	(n)	(n)	(n)	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
West Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	(n)	-	-	-	-	-

Cont.....

Table 33. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Iran	-	-	-	-	(n)	(n)	1	1	2	2
Albania	-	-	-	-	-	-	-	-	-	7
Netherlands	-	-	-	-	-	-	-	-	-	-
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

Source: Based on data given in Table 25 above.

Table 34.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1960-1969
 Percentage of World Total

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Philippines	24	19	15	19	18	15	19	15	15	15
South Africa	23	27	27	23	19	19	27	23	27	26
Zimbabwe	15	13	13	11	14	17	(n)	(n)	(n)	(n)
Soviet Union	13	14	16	22	20	21	30	34	36	33
Turkey	12	12	12	8	10	12	16	10	13	14
Albania	7	7	9	10	9	8	(n)	11	(n)	(n)
New Caledonia	1	1	1	1	-	-	-	-	-	-
Iran	1	2	3	4	4	4	4	3	2	4
India	1	1	1	-	1	1	2	2	4	4
Greece	1	1	1	1	1	1	1	-	1	1
Cuba	1	1	1	-	1	1	(n)	-	-	-
Yugoslavia	1	-	1	1	1	-	-	-	-	-
Sierra Leone	-	-	-	-	-	-	-	-	-	-
Cyprus	-	1	-	-	-	-	-	1	1	1
Pakistan	-	-	-	-	1	(n)	(n)	-	-	-
United States	-	-	-	-	-	-	-	-	-	1
West Germany	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	(n)	-	-	-	-	-	-

Cont.....

Table 34. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Italy	-	-	-	-	-	-	-	-	-	-
Japan	(n)	(n)	(n)	(n)	(n)	-	(n)	-	-	-
Malagasy	-	-	1	-	-	-	-	-	-	1
Sudan	-	-	-	-	-	-	(n)	-	-	-
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100(t)	100(t)	100(t)	100(t)

(n) Not known.

(t) Percentages based on total that does not include Zimbabwe or Albania (except for 1967) for which exports not known, and for which large exports recorded prior to 1966.

Source: Based on data given in Table 26 above.

Table 35.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN
 1970-1979
 Percentage of World Total

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Soviet Union	27	26	30	28	23	22	20	13	16	22
South Africa	20	27	25	24	21	24	25	30	31	35
Philippines	14	9	10	13	13	9	8	9	10	14
Turkey	13	13	9	9	13	12	13	9	6	9
Albania	11	11	12	10	12	13	14	14	18	(n)
Iran	5	4	3	3	3	1	-	(n)	2	1
India	3	2	3	5	7	7	6	3	2	7
Malagasy	2	3	3	2	4	3	2	2	3	(n)
Pakistan	1	1	1	1	-	-	-	-	-	-
United States	1	1	-	-	-	2	2	3	1	-
Cyprus	1	1	1	1	-	1	-	-	-	-
Sudan	1	-	1	1	-	-	1	-	(n)	(n)
Greece	1	1	-	-	-	-	-	2	-	1
Yugoslavia	-	-	-	-	-	-	-	-	-	-
Finland	-	1	-	1	2	3	6	10	8	9
Netherlands	-	-	-	-	1	1	-	-	-	-
West Germany	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	1	1	-	-	-	1	2	1
Belgium	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 35. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United Kingdom	-	-	-	-	-	-	-	-	-	-
Cuba	-	-	-	-	-	1	1	1	(n)	(n)
New Caledonia	-	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Zimbabwe	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	-
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total (t_1)	100	100	100	100	100	100	100	100	100	100(t_3)

(n) Not known.

(t_1) Percentages are based on total that does not include United States re-exports, and are comparable with percentages shown in previous tables.

(t_3) Percentages are based on total that does not include Albania or Malagasy for which exports not known, and for which large exports recorded prior to 1979.

Source: Based on data given in Table 27 above.

Table 36.
 WORLD CHROMITE EXPORTS
 BY COUNTRY OF ORIGIN(a)

1980

Percentage of World Total

Country	1980
South Africa	42
Soviet Union	19
Philippines	16
Turkey	11
Finland	7
Greece	1
Iran	1
Netherlands	1
Zimbabwe	1
Yugoslavia	-
Cyprus	-
New Caledonia	-
Japan	-
United States	-
Germany	-
Italy	-
France	-
United Kingdom	-
Austria	-
Belgium	-
Total small exports(s)	-
<hr/>	
Total (t ₁)	100
<hr/>	

Cont.....

Table 36. (continued)

(a) Chromite export figures are not yet available for a number of countries including Albania, India, Malagasy, and Brazil, and the exports of these countries are not included in the total on which the percentages are based.

(t₁) Percentages are based on total that does not include United States re-exports, and in this regard are comparable with percentages shown in previous tables.

Source: Based on data given in Table 28 above.

Table 37.
 TURKISH CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1934-1939

Thousands of tonnes

Country	1934	1935	1936	1937	1938	1939
United States	35.1	21.0	13.9	45.6	13.4	19.4
Germany	30.3	40.4	64.5	58.4	68.5	104.2
Sweden	21.9	31.3	34.6	45.9	46.1	15.7
France	15.0	16.4	16.9	19.9	14.3	18.8
Italy	5.4	9.4	1.0	4.8	32.2	15.7
United Kingdom	5.2	5.9	1.0	1.0	3.7	-
Norway	5.0	7.5	4.9	8.1	12.7	17.1
Denmark	1.5	0.5	-	-	-	-
Poland	1.0	1.0	0.9	0.5	1.0	1.9
Finland	0.4	-	1.1	1.5	2.4	-
Netherlands	0.3	4.6	10.0	1.3	-	-
Belgium	0.1	3.4	0.7	0.2	-	-
Greece	-	1.3	-	-	-	-
Switzerland	-	1.1	-	-	-	-
Czechoslovakia	-	0.8	0.2	0.7	1.9	-
Austria	-	-	-	5.0	8.5	-
Other	1.0	1.1	0.1	5.6(a)	3.9	-
Total	122.1	145.7	149.6	198.5	208.1	192.8

(a) Assumed.

Source: Based on statistics recorded in The Mineral Industry, 1941, The Engineering and Mining Journal (Inc.).

Table 38.
 TURKISH CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION

1934-1939

Percentage of Total

Country	1934	1935	1936	1937	1938	1939
United States	29	14	9	23	6	10
Germany	25	28	43	29	33	54
Sweden	18	21	23	23	22	8
France	12	11	11	10	7	10
Italy	4	6	1	2	15	8
United Kingdom	4	4	1	1	2	-
Norway	4	5	3	4	6	9
Denmark	1	-	-	-	-	-
Poland	1	1	1	-	-	1
Finland	-	-	1	1	1	-
Netherlands	-	3	7	1	-	-
Belgium	-	2	-	-	-	-
Greece	-	1	-	-	-	-
Switzerland	-	1	-	-	-	-
Czechoslovakia	-	1	-	-	1	-
Austria	-	-	-	3	4	-
Other	1	1	-	3	2	-
Total	100	100	100	100	100	100

Source: Based on data given in Table 37 above.

Table 39.
SOUTH AFRICAN CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1935-1940

Thousands of tonnes

Country	1935	1936	1937	1938	1939	1940
Germany	40.7	29.4	39.4	49.0	48.8	-
United States	15.2	43.8	85.5	45.7	80.7	87.7
United Kingdom	3.3	11.6	23.2	3.8	17.3	19.4
Netherlands	0.6	5.6	8.8	2.0	0.2	-
Italy	0.2	2.0	3.9	-	-	-
Czechoslovakia	0.2	-	-	1.9	-	-
Spain	0.1	-	-	-	-	-
Yugoslavia	-	6.1	-	-	-	-
France	-	0.5	0.5	1.4	4.0	0.6
Belgium	-	0.1	8.0	1.8	1.5	-
Poland	-	-	0.1	2.2	1.0	-
Canada	-	-	-	7.5	14.8	-
Australia	-	-	-	4.0	-	-
Sweden	-	-	-	-	0.6	-
Total	60.4	99.2	169.5	119.4	166.3	107.7

Source: Based on statistics recorded in The Mineral Industry,
1941, The Engineering and Mining Journal (Inc.).

Table 40.
SOUTH AFRICAN CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1935-1940
Percentage of Total

Country	1935	1936	1937	1938	1939	1940
Germany	67	30	23	41	29	-
United States	25	44	50	38	49	81
United Kingdom	5	12	14	3	10	18
Netherlands	1	6	5	2	-	-
Italy	-	2	2	-	-	-
Czechoslovakia	-	-	-	2	-	-
Spain	-	-	-	-	-	-
Yugoslavia	-	6	-	-	-	-
France	-	1	-	1	2	1
Belgium	-	-	5	2	1	-
Poland	-	-	-	2	1	-
Canada	-	-	-	6	9	-
Australia	-	-	-	3	-	-
Sweden	-	-	-	-	-	-
Total	100	100	100	100	100	100

Source: Based on data given in Table 39 above.

Table 41.
NEW CALEDONIAN CHROMITE EXPORTS
BY COUNTRY OF DESTINATION

1932-1940

Thousands of tonnes

Country	1932	1933	1934	1935	1936	1937	1938	1939	1940
United States	8.2	15.4	22.4	61.4	58.2	62.0	24.6	18.9	55.4
Germany	5.5	(n)	-	2.5	-	-	7.3	13.5	-
Belgium- Netherlands	-	7.8	11.6	9.2	7.7	-	-	-	-
Japan	-	1.3	1.4	1.6	1.3	1.9	0.1	-	1.7
France	-	-	0.5	-	7.0	3.3	6.7	3.6	-
Others (a)	0.5	0.1	1.3	-	3.6	2.6	3.6	3.4	2.5
Total	14.2	24.6	37.2	74.0	77.8	69.8	42.3	39.4	59.6

(n) Not known

(a) Assumed

Source: Based on statistics recorded in The Mineral Industry,
1941, The Engineering and Mining Journal (Inc.).

Table 42.
 NEW CALEDONIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION

1932-1940

Percentage of Total

Country	1932	1933	1934	1935	1936	1937	1938	1939	1940
United States	58	63	60	83	75	89	58	48	93
Germany	39	-	-	3	-	-	17	34	-
Belgium- Netherlands	-	32	31	12	10	-	-	-	-
Japan	-	5	4	2	2	3	-	-	3
France	-	-	1	-	9	5	16	9	-
Others	4	-	3	-	5	4	9	9	4
Total	100	100	100	100	100	100	100	100	100

Source: Based on data given in Table 41 above.

Table 43.
 GREEK CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1934-1939

Thousands of tonnes

Country	1934	1935	1936	1937	1938	1939
United States	10.9	15.3	25.9	23.3	5.6	14.1
United Kingdom	8.9	6.9	12.2	9.6	1.9	11.3
Netherlands	1.5	3.5	1.5	1.5	1.8	0.6
Italy	0.6	0.1	0.8	5.6	1.0	-
Germany	-	4.3	5.3	12.5	23.9	22.3
Belgium	-	1.3	2.2	2.9	1.0	1.8
Others	0.2	0.7	-	0.7	0.5	2.4
Total	22.1	32.0	48.0	55.9	35.7	52.4

Source: Based on statistics recorded in The Mineral Industry, 1941, The Engineering and Mining Journal (Inc.).

Table 44.
GREEK CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1934-1939

Percentage of Total

Country	1934	1935	1936	1937	1938	1939
United States	49	48	54	42	16	27
United Kingdom	40	22	25	17	5	22
Netherlands	7	11	3	3	5	1
Italy	3	-	2	10	3	-
Germany	-	13	11	22	67	43
Belgium	-	4	5	5	3	3
Others	1	2	-	1	1	5
Total	100	100	100	100	100	100

Source: Based on data given in Table 43 above.

Table 45.
 PHILIPPINES CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION

1935-1940

Thousands of tonnes

Country	1935	1936	1937	1938	1939	1940
United States	1.1	9.2	65.3	54.1	101.6	155.3
Japan	0.2	2.1	-	1.9	13.5	32.6
Belgium	(s)	-	-	1.3	2.1	-
United Kingdom	-	(s)	3.7	1.7	4.1	6.1
Germany	-	(s)	0.5	0.8	-	-
Sweden	-	-	0.2	-	4.6	-
Canada	-	-	-	7.1	-	-
France	-	-	-	-	0.8	-
Other (a)	-	0.6	0.2	-	-	0.4
Total	1.3	11.9	69.9	66.9	126.7	194.4

(s) Small chromite exports of less than 50 tonnes recorded.

(a) Assumed.

Source: Based on statistics recorded in The Mineral Industry, 1941, The Engineering and Mining Journal (Inc.).

Table 46.
 PHILIPPINES CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1935-1940

Percentage of Total

Country	1935	1936	1937	1938	1939	1940
United States	85	77	93	81	80	80
Japan	15	18	-	3	11	17
Belgium	-	-	-	2	2	-
United Kingdom	-	-	5	3	3	3
Germany	-	-	1	1	-	-
Sweden	-	-	-	-	4	-
Canada	-	-	-	11	-	-
France	-	-	-	-	1	-
Other	-	5	-	-	-	-
Total	100	100	100	100	100	100

Source: Based on data given in Table 45 above.

Table 47.
YUGOSLAVIAN CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1933-1939

Thousands of tonnes

Country:	1933	1934	1935	1936	1937	1938	1939
United States	11.0	8.4	1.0	2.0	0.3	3.3	3.0
Finland	2.3	4.2	1.8	3.1	-	2.9	2.8
Austria (a)	2.1	3.5	5.8	8.4	10.0	1.6	-
Germany	1.5	8.4	0.5	0.3	0.4	13.3	5.6
Sweden	1.0	0.4	5.4	3.8	8.2	1.1	6.1
Belgium	0.5	-	0.6	-	-	-	-
Rumania	0.3	0.4	0.3	0.7	0.6	0.4	(s)
Poland	0.2	0.7	0.6	1.1	0.1	0.1	0.1
Netherlands	0.2	-	-	-	-	-	-
Czechoslovakia	0.1	1.6	5.5	3.8	4.4	-	-
Hungary	(s)	-	0.5	0.6	0.7	-	(s)
United Kingdom	-	-	-	(s)	-	-	-
Switzerland	-	-	-	-	-	-	0.6
Italy	-	-	-	-	-	0.6(b)	0.1
Total	19.2	27.6	22.0	23.8	24.7	23.3	18.3

(s) Small chromite exports of less than 50 tonnes recorded.

(a) Large proportion of Austrian imports in reality destined for Germany.

(b) Assumed.

Source: Based on statistics recorded in The Mineral Industry, 1941, The Engineering and Mining Journal (Inc.).

Table 48.
 YUGOSLAVIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1933-1939
 Percentage of Total

Country	1933	1934	1935	1936	1937	1938	1939
United States	57	30	5	8	1	14	16
Finland	12	15	8	13	-	12	15
Austria (a)	11	13	26	35	40	7	-
Germany	8	30	2	1	2	57	31
Sweden	5	1	25	16	33	5	33
Belgium	3	-	3	-	-	-	-
Rumania	2	1	1	3	2	2	-
Poland	1	3	3	5	-	-	1
Netherlands	1	-	-	-	-	-	-
Czechoslovakia	1	6	25	16	18	-	-
Hungary	-	-	2	3	3	-	-
United Kingdom	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	3
Italy	-	-	-	-	-	3	1
Total	100	100	100	100	100	100	100

(a) Large proportion of Austrian imports in reality
 destined for Germany.

Source: Based on data given in Table 47 above.

Table 49.
 SOVIET UNION CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1935-1937
 Thousands of tonnes

Country	1935	1936	1937
United States	4.5	-	-
Italy	3.6	-	-
Poland	1.1	-	-
Norway	0.9	-	-
Germany	0.9	-	-
Netherlands	0.2	-	-
United Kingdom	0.1	-	-
Czechoslovakia	0.1	-	-
Sweden	0.1	-	-
Total	11.5	-	-

Source: Based on statistics recorded in The Mineral Industry,
 1935-1937, The Engineering and Mining Journal (Inc.).

Table 50.
SOVIET UNION CHROMITE EXPORTS
BY COUNTRY OF DESTINATION

1935-1937

Percentage of Total

Country	1935	1936	1937
United States	39	-	-
Italy	31	-	-
Poland	10	-	-
Norway	8	-	-
Germany	8	-	-
Netherlands	2	-	-
United Kingdom	1	-	-
Czechoslovakia	1	-	-
Sweden	1	-	-
Total	100	-	-

Source: Based on data given in Table 49 above.

Table 51.

CHROMITE EXPORTS OF SELECTED COUNTRIES (a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1935-1937

ACTUAL AND NULL EXPORTS (b)

Thousands of tonnes

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION							Total
	United States	Germany	Sweden	France	Norway	United Kingdom	Other	
Turkey	26.8 (91.6)	54.4 (28.4)	37.3 (13.3)	17.7 (9.6)	6.8 (9.2)	2.6 (9.2)	19.0	164.6
South Africa	48.2 (61.1)	36.5 (18.9)	- (8.9)	0.3 (6.4)	- (6.1)	12.7 (6.1)	12.0	109.7
New Caledonia	60.5 (41.1)	0.8 (12.7)	- (6.0)	3.4 (4.3)	- (4.1)	- (4.1)	9.2	73.9
Greece	21.5 (25.2)	7.4 (7.8)	- (3.7)	- (2.7)	- (2.5)	9.6 (2.5)	6.8	45.3

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Table 51. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION							Total
	United States	Germany	Sweden	France	Norway	United Kingdom	Other	
Philippines	25.2 (15.4)	0.2 (4.8)	0.1 (2.2)	- (1.6)	- (1.5)	1.2 (1.5)	1.0	27.7
Yugoslavia	1.1 (13.1)	8.5(c) (4.0)	5.8 (1.9)	- (1.4)	- (1.3)	- (1.3)	8.1	23.5
Soviet Union	1.5 (2.1)	0.3 (0.7)	- (0.3)	- (0.2)	0.3 (0.2)	- (0.2)	1.7	3.8

(a) Zimbabwe, Cuba, and India were also substantial exporters of chromite during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 95 below showing the origin of imports for selected countries.

Cont....

Table 51. (continued)

(b) Null exports shown in brackets, and calculated as follows:

$$\text{Null exports} = \frac{\text{Total exports of exporting country}}{\text{Total world imports}} \times \frac{\text{Total imports of importing country}}{\text{Total world imports}}$$

(c) Includes Austrian imports (assumed destined for Germany).

Source: Data on actual exports based on statistics shown in Tables 37, 39, 41, 43, 45, 47 and 49 above, and calculations of null exports based on statistics shown in Tables 37, 39, 41, 43, 45, 47 and 49 above and in Table 74 below.

Table 52.

CHROMITE EXPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1935-1937

ACTUAL AND NULL EXPORTS(b)

Percentage of Total

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION							Total
	United States	Germany	Sweden	France	Norway	United Kingdom	Other	
Turkey	16.3 (55.7)	33.0 (17.2)	22.7 (8.1)	10.8 (5.8)	4.1 (5.6)	1.6 (5.6)	11.6	100.0
South Africa	43.9 (55.7)	33.3 (17.2)	- (8.1)	0.3 (5.8)	- (5.6)	11.6 (5.6)	10.9	100.0
New Caledonia	81.9 (55.7)	1.1 (17.2)	- (8.1)	4.6 (5.8)	- (5.6)	- (5.6)	12.5	100.0
Greece	47.5 (55.7)	16.3 (17.2)	- (8.1)	- (5.8)	- (5.6)	21.2 (5.6)	15.1	100.0

Cont.... 8

Table 52. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION							Total
	United States	Germany	Sweden	France	Norway	United Kingdom	Other	
Philippines	91.0 (55.7)	0.7 (17.2)	0.4 (8.1)	- (5.8)	- (5.6)	4.3 (5.6)	3.6	100.0
Yugoslavia	4.7 (55.7)	36.2(c) (17.2)	24.7 (8.1)	- (5.8)	- (5.6)	- (5.6)	34.5	100.0
Soviet Union	39.5 (55.7)	7.9 (17.2)	- (8.1)	- (5.8)	7.9 (5.6)	- (5.6)	44.7	100.0

(a) Zimbabwe, Cuba, and India were also substantial exporters of chromite during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 95 below showing the origin of imports for selected countries.

Cont.....

Table 52. (continued)

(b) Null percentages shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total imports of importing Country}}{\text{Total world imports}} \times 100$$

(c) Includes Austrian imports (assumed destined for Germany).

Source: Actual percentages based on data given in Table 51 above, and null percentages based on data given in Table 74 below.

Table 53.
 SOVIET UNION CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1971-1974

Thousands of tonnes

Country	1971	1972	1973	1974
United States	275.0	285.0	281.0	317.0
Sweden	150.0	127.0	180.0	182.0
West Germany	117.0	107.0	180.0	96.0
Czechoslovakia	106.0	97.0	104.0	107.0
Poland	105.0	118.0	121.0	125.0
France	89.0	71.0	95.0	59.0
Japan	85.0	122.0	113.0	88.0
Italy	60.0	54.0	65.0	48.0
East Germany	36.0	45.0	31.0	30.0
Hungary	21.0	17.0	10.0	18.0
Other (o)	53.0	69.0	71.0	69.0
Total (t)	1097.0	1112.0	1251.0	1139.0

(t) Total exports based on Soviet Union exports given in Table 27.

(o) Other exports calculated as difference between recorded exports for specific countries and total exports.

Source: Exports to specific countries based on statistics recorded in Industrial Minerals, August 1975.

Table 54.
 SOVIET UNION CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION

1971-1974

Percentage of Total

Country	1971	1972	1973	1974
United States	25	26	22	28
Sweden	14	11	14	16
West Germany	11	10	14	8
Czechoslovakia	10	9	8	9
Poland	10	11	10	11
France	8	6	8	5
Japan	8	11	9	8
Italy	5	5	5	4
East Germany	3	4	2	3
Hungary	2	2	1	2
Other	5	6	6	6
Total	100	100	100	100

Source: Based on data given in Table 53 above.

Table 55.
 PHILIPPINES CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	159.0	250.5	230.5	188.4	125.2
Japan	112.6	195.9	202.8	158.1	165.8
Netherlands	25.0	2.5	11.5	28.1	1.0
United Kingdom	23.7	41.3	87.7	37.5	26.1
Italy	20.1	22.9	30.4	8.1	8.8
Canada	17.0	22.6	19.7	15.2	17.4
Australia	6.9	13.5	11.0	12.6	2.9
Venezuela	6.0	-	6.5	10.8	6.4
Chile	3.2	11.5	8.8	9.8	-
Brazil	3.0	16.5	12.0	12.3	2.9
Taiwan	2.7	1.2	1.9	3.2	7.1
Peru	1.7	-	2.0	2.0	-
Austria	1.0	-	-	-	-
West Germany	-	16.7	2.3	-	-
Argentina	-	3.0	6.0	-	-
Yugoslavia	-	-	7.0	12.3	3.0
Thailand	-	-	2.0	-	-
Poland	-	-	-	2.5	4.1
South Korea	-	-	-	0.5	-
Panama	-	-	-	-	7.4
Total	382.8	598.2	641.8	501.4	378.1

Cont.....

Table 55. (continued)

Source: Based on statistics recorded in Personal Communication, National Census and Statistics Office, Republic of the Philippines, December 1977.

Table 56.
 PHILIPPINES CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
United States	42	42	36	38	33
Japan	29	33	32	32	44
Netherlands	7	-	2	6	-
United Kingdom	6	7	14	7	7
Italy	5	4	5	2	2
Canada	4	4	3	3	5
Australia	2	2	2	3	1
Venezuela	2	-	1	2	2
Chile	1	2	1	2	-
Brazil	1	3	2	2	1
Taiwan	1	-	-	1	2
Peru	-	-	-	-	-
Austria	-	-	-	-	-
West Germany	-	3	-	-	-
Argentina	-	1	1	-	-
Yugoslavia	-	-	1	2	1
Thailand	-	-	-	-	-
Poland	-	-	-	-	1
South Korea	-	-	-	-	-
Panama	-	-	-	-	2
Total	100	100	100	100	100

Source: Based on data given in Table 55 above.

Table 57.
 TURKISH CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	87.4	95.5	159.8	169.4	107.1
Switzerland	59.0	28.6	103.5	67.8	106.1
Czechoslovakia	29.9	23.0	9.6	-	-
Norway	28.4	31.9	59.4	33.6	27.8
West Germany	27.9	49.1	32.0	73.5	58.5
France	25.9	9.4	64.6	42.5	45.3
China	20.0	19.7	-	-	-
Austria	12.9	9.7	25.4	22.0	9.1
Spain	12.6	25.9	30.9	34.2	34.8
Japan	10.4	30.4	35.0	90.9	63.7
Sweden	10.3	41.9	60.9	63.6	35.0
Italy	7.2	14.0	36.2	33.1	78.0
Rumania	5.0	0.5	-	-	-
Poland	4.0	10.0	1.5	3.0	6.4
Bulgaria	0.9	-	1.5	-	0.3
Yugoslavia	0.5	-	-	-	29.9
Canada	-	9.4	-	-	-
Netherlands	-	4.0	15.1	5.5	5.5
Ireland	-	-	5.4	9.3	-
United Kingdom	-	-	5.2	-	1.0
Total	342.3	404.9	645.9	648.5	608.4

Source: Based on statistics recorded in Personal Communication,
 State Institute of Statistics, Republic of Turkey,
 February 1978.

Table 58.
 TURKISH CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
United States	26	24	25	26	18
Switzerland	17	7	16	10	17
Czechoslovakia	9	6	1	-	-
Norway	8	8	9	5	5
West Germany	8	12	5	11	10
France	8	2	10	7	7
China	6	5	-	-	-
Austria	4	2	4	3	1
Spain	4	6	5	5	6
Japan	3	8	5	14	10
Sweden	3	10	9	10	6
Italy	2	3	6	5	13
Rumania	1	-	-	-	-
Poland	1	2	-	-	1
Bulgaria	-	-	-	-	-
Yugoslavia	-	-	-	-	5
Canada	-	2	-	-	-
Netherlands	-	1	2	1	1
Ireland	-	-	1	1	-
United Kingdom	-	-	1	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 57 above.

Table 59.
 IRANIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1970-1976(a)

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976
France	42.8	29.4	12.6	50.3	11.6	-	0.1
United States	35.9	12.7	(s)	-	10.0	-	-
Netherlands	34.0	13.8	0.5	0.8	5.0	10.7	-
Japan	29.1	19.3	18.5	20.9	37.4	32.2	-
West Germany	22.2	14.9	12.0	6.7	3.0	8.0	-
Italy	16.0	11.2	6.2	7.3	6.5	2.0	-
East Germany	15.8	-	-	-	7.2	13.0	-
Czechoslovakia	11.8	17.6	6.7	9.8	12.0	-	-
Yugoslavia	4.1	4.6	-	1.5	3.0	4.2	5.0
China	-	16.0	19.8	46.6	10.7	-	-
Australia	-	8.4	-	-	10.5	-	-
Poland	-	-	23.1	7.0	15.0	7.0	0.3
Austria	-	-	1.5	-	3.0	-	-
North Korea	-	-	-	-	9.6	-	-
Spain	-	-	-	-	5.0	-	-
Mongolia	-	-	-	-	-	(s)	-
Other	10.8	3.9	0.2	-	-	-	-
Total	222.5	151.8	101.1	150.8	149.4	77.1	5.4

(a) For each year the period covered includes March 21st in the year indicated to March 20th in the following year.

(s) Small chromite exports of less than 50 tonnes recorded.

Cont.,...

Table 59. (continued)

Source: Data for years 1970 and 1971 based on statistics recorded in Industrial Minerals, August 1975, and data for years 1972 to 1976 based on statistics recorded in Personal Communication, Statistical Centre of Iran, Department of National Accounts and Financial Statistics, Iran, December 1977.

Table 60.
 IRANIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1970-1976

Country	Percentage of Total						
	1970	1971	1972	1973	1974	1975	1976
France	19	19	12	33	8	-	2
United States	16	8	-	-	7	-	-
Netherlands	15	9	-	1	3	14	-
Japan	13	13	18	14	25	42	-
West Germany	10	10	12	4	2	10	-
Italy	7	7	6	5	4	3	-
East Germany	7	-	-	-	5	17	-
Czechoslovakia	5	12	7	6	8	-	-
Yugoslavia	2	3	-	1	2	5	93
China	-	11	20	31	7	-	-
Australia	-	6	-	-	7	-	-
Poland	-	-	23	5	10	9	6
Austria	-	-	1	-	2	-	-
North Korea	-	-	-	-	6	-	-
Spain	-	-	-	-	3	-	-
Mongolia	-	-	-	-	-	-	-
Other	5	3	-	-	-	-	-
Total	100	100	100	100	100	100	100

Source: Based on data given in Table 59 above.

Table 61.
MALAGASY CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1972-1974

Thousands of tonnes

Country	1972	1973	1974
Japan	97.9	-	129.7
France	20.0	98.0	50.6
Total	117.9	98.0	180.3

Source: Based on statistics recorded in Personal Communication,
Direction de L'Institut de la Statistique et de la Recherche
Economique, Democratic Republic of Malagasy, May 1978.

Table 62.
MALAGASY CHROMITE EXPORTS
BY COUNTRY OF DESTINATION
1972-1974

Percentage of Total

Country	1972	1973	1974
Japan	83	-	72
France	17	100	28
Total	100	100	100

Source: Based on data given in Table 61 above.

Table 63.
 FINNISH CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Sweden	7.5	12.8	15.5	58.9	135.7
Netherlands	6.1	8.5	3.5	3.5	-
Norway	0.9	0.6	0.5	0.9	0.7
West Germany	0.4	0.5	35.8	5.1	10.4
Switzerland	0.1	0.2	0.6	0.8	0.3
Austria	0.1	-	0.5	1.3	0.3
Portugal	(s)	0.1	(s)	0.1	0.1
Denmark	(s)	0.5	1.3	2.0	0.6
Italy	(s)	-	4.4	3.0	5.1
Spain	-	5.1	11.4	5.4	-
Belgium- Luxembourg	-	2.2	5.3	12.4	12.2
France	-	0.1	-	1.3	10.8
United Kingdom	-	(s)	1.1	1.3	1.6
United States	-	-	4.0	54.4	113.6
Poland	-	-	0.1	-	-
Hungary	-	-	(s)	0.2	0.3
Japan	-	-	-	0.1	-
Total	15.1	30.4	83.9	150.4	291.5

(s) Small chromite exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 Board of Customs, Finland, December 1977.

Table 64.
FINNISH CHROMITE EXPORTS
BY COUNTRY OF DESTINATION

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
Sweden	50	42	18	39	47
Netherlands	40	28	4	2	-
Norway	6	2	1	1	-
West Germany	3	2	43	3	4
Switzerland	1	1	1	1	-
Austria	1	-	1	1	-
Portugal	-	-	-	-	-
Denmark	-	2	2	1	-
Italy	-	-	5	2	2
Spain	-	17	14	4	-
Belgium- Luxembourg	-	7	6	8	4
France	-	-	-	1	4
United Kingdom	-	-	1	1	1
United States	-	-	5	36	39
Poland	-	-	-	-	-
Hungary	-	-	-	-	-
Japan	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 63 above.

Table 65.
 CYPRUS CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1970-1976

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976
Austria	14.6	14.0	10.1	11.0	10.1	8.4	6.4
France	9.5	11.1	-	-	-	-	-
Canada	4.6	6.3	6.1	4.0	4.2	4.2	-
Norway	2.5	10.5	5.0	5.2	-	-	-
West Germany	-	-	2.5	3.0	-	8.8	2.5
United Kingdom	-	-	-	7.2	10.5	4.8	1.9
Sweden	-	-	-	-	-	2.0	-
Italy	-	-	-	-	-	-	1.1
Poland	-	-	-	-	-	-	0.5
Total	31.2	42.9	23.7	30.4	24.8	28.1	12.3

Source: Data for years 1970 and 1971 based on statistics recorded in Industrial Minerals, August 1975, and data for years 1972 to 1976 based on statistics recorded in Personal Communication, Department of Statistics and Research, Ministry of Finance, Cyprus, December 1977.

Table 66.
 CYPRUS CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1970-1976

Percentage of Total

Country	1970	1971	1972	1973	1974	1975	1976
Austria	47	33	43	36	41	30	52
France	30	26	-	-	-	-	-
Canada	15	15	26	13	17	15	-
Norway	8	24	21	17	-	-	-
West Germany	-	-	11	10	-	31	20
United Kingdom	-	-	-	24	42	17	15
Sweden	-	-	-	-	-	7	-
Italy	-	-	-	-	-	-	9
Poland	-	-	-	-	-	-	4
Total	100	100	100	100	100	100	100

Source: Based on data given in Table 65 above.

Table 67.
 GREEK CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
West Germany	11.6	11.2	5.0	10.7	6.8
France	3.3	-	1.1	0.9	0.3
Norway	3.0	5.4	3.2	7.5	12.0
Yugoslavia	-	-	1.5	-	-
Austria	-	-	(s)	-	-
Belgium- Luxembourg	-	-	-	0.2	0.3
United States	-	-	-	-	2.6
Total	17.9	16.6	10.8	19.3	22.0

(s) Small chromite exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 National Statistical Service of Greece, Greece, January 1978.

Table 68.
 GREEK CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
West Germany	65	67	46	55	31
France	18	-	10	5	1
Norway	17	33	30	39	55
Yugoslavia	-	-	14	-	-
Austria	-	-	-	-	-
Belgium- Luxembourg	-	-	-	1	1
United States	-	-	-	-	12
Total	100	100	100	100	100

Source: Based on data given in Table 67 above.

Table 69.
 NEW CALEDONIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Japan	-	-	3.6	1.0	9.1
Total	-	-	3.6	1.0	9.1

Source: Based on statistics recorded in Personal Communication,
 Service de la Statistique, New Caledonia, December 1977.

Table 70.
 NEW CALEDONIAN CHROMITE EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
Japan	-	-	100	100	100
Total	-	-	100	100	100

Source: Based on data given in Table 69 above.

Table 71.

CHROMITE EXPORTS OF SELECTED COUNTRIES (a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL EXPORTS (b)

Thousands of tonnes

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION													Total	
	Japan	United States	West Germany	France	Sweden	Italy	Poland	United Kingdom	East Germany	Austria	Canada	Spain	Norway		Other
Soviet Union	107.7 (292.0)	294.3 (256.2)	127.7 (115.9)	75.0 (88.9)	163.0 (60.6)	55.7 (49.7)	121.3 (46.3)	- (37.8)	35.3 (26.2)	- (23.2)	- (21.1)	- (21.0)	- (20.7)	187.3	1167.3
Philippines	170.4 (135.3)	213.3 (118.7)	6.3 (53.7)	- (41.2)	- (28.1)	24.5 (23.0)	- (21.4)	50.9 (17.5)	- (12.2)	0.3 (10.8)	19.8 (9.8)	- (9.7)	- (9.6)	55.4	540.9
Turkey	25.3 (116.1)	114.2 (101.9)	36.3 (46.1)	33.3 (35.3)	37.7 (24.1)	19.1 (19.8)	5.2 (18.4)	1.7 (15.1)	- (10.4)	16.0 (9.2)	3.1 (8.4)	23.1 (8.4)	39.9 (8.2)	109.5	464.4
Iran	25.6 (33.4)	3.3 (29.3)	7.2 (13.3)	24.8 (10.2)	- (6.9)	6.7 (5.7)	15.0 (5.3)	- (4.3)	2.4 (3.0)	1.5 (2.7)	- (2.4)	1.7 (2.4)	- (2.4)	45.6	133.8

Cont.

Table 71. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION														Total
	Japan	United States	West Germany	France	Sweden	Italy	Poland	United Kingdom	East Germany	Austria	Canada	Spain	Norway	Other	
Malagasy	75.9 (33.0)	- (29.0)	- (13.1)	56.2 (10.1)	- (6.9)	- (5.6)	- (5.2)	- (4.3)	- (3.0)	- (2.6)	- (2.4)	- (2.4)	- (2.3)	-	132.1
Finland	- (10.8)	1.3 (9.4)	12.2 (4.3)	- (3.3)	11.9 (2.2)	1.5 (1.8)	- (1.7)	0.4 (1.4)	- (1.0)	0.2 (0.9)	- (0.8)	5.5 (0.8)	0.7 (0.8)	9.4	43.1
Cyprus	- (6.5)	- (5.7)	1.8 (2.6)	- (2.0)	- (1.4)	- (1.1)	- (1.0)	5.9 (0.8)	- (0.6)	10.4 (0.5)	4.8 (0.5)	- (0.5)	3.4 (0.5)	-	26.3
Greece	- (3.8)	- (3.3)	9.3 (1.5)	1.5 (1.1)	- (0.8)	- (0.6)	- (0.6)	- (0.5)	- (0.3)	- (0.3)	- (0.3)	- (0.3)	3.9 (0.3)	0.4	15.1
New Caledonia	1.2 (0.3)	- (0.3)	- (0.1)	- (0.1)	- (0.1)	- (0.1)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	-	1.2

Cont.....

Table 71. (continued)

(a) South Africa, Albania, and India were also substantial exporters of chromite during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 119 below showing the origin of imports for selected countries.

(b) Null exports shown in brackets, and calculated as follows:

$$\text{Null exports} = \frac{\text{Total exports of exporting country}}{\text{Total world imports}} \times \frac{\text{Total imports of importing country}}{\text{Total world imports}}$$

Source: Data on actual exports based on statistics shown in Tables 53, 55, 57, 59, 61, 63, 65, 67, and 69 above, and calculations of null exports based on statistics shown in Tables 53, 55, 57, 59, 61, 63, 65, 67, and 69 above and in Table 78 below.

Table 72.

CHROMITE EXPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL EXPORTS(b)

Percentage of Total

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION														Total
	Japan	United States	West Germany	France	Sweden	Italy	Poland	United Kingdom	East Germany	Austria	Canada	Spain	Norway	Other	
Soviet Union	9.2 (25.0)	25.2 (22.0)	10.9 (9.9)	6.4 (7.6)	14.0 (5.2)	4.8 (4.3)	10.4 (4.0)	- (3.2)	3.0 (2.2)	- (2.0)	- (1.8)	- (1.8)	- (1.8)	16.0	100.0
Philippines	31.5 (25.0)	39.4 (22.0)	1.2 (9.9)	- (7.6)	- (5.2)	4.5 (4.3)	- (4.0)	9.4 (3.2)	- (2.2)	0.1 (2.0)	3.7 (1.8)	- (1.8)	- (1.8)	10.2	100.0
Turkey	5.4 (25.0)	24.6 (22.0)	7.8 (9.9)	7.2 (7.6)	8.1 (5.2)	4.1 (4.3)	1.1 (4.0)	0.4 (3.2)	- (2.2)	3.4 (2.0)	0.7 (1.8)	5.0 (1.8)	8.6 (1.8)	23.6	100.0
Iran	19.1 (25.0)	2.5 (22.0)	5.4 (9.9)	18.5 (7.6)	- (5.2)	5.0 (4.3)	11.2 (4.0)	- (3.2)	1.8 (2.2)	1.1 (2.0)	- (1.8)	1.3 (1.8)	- (1.8)	34.1	100.0

Cont..... 109.

Table 72. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION														Total
	Japan	United States	West Germany	France	Sweden	Italy	Poland	United Kingdom	East Germany	Austria	Canada	Spain	Norway	Other	
Malagasy	57.5 (25.0)	- (22.0)	- (9.9)	42.5 (7.6)	- (5.2)	- (4.3)	- (4.0)	- (3.2)	- (2.2)	- (2.0)	- (1.8)	- (1.8)	- (1.8)	-	100.0
Finland	- (25.0)	3.0 (22.0)	28.3 (9.9)	- (7.6)	27.6 (5.2)	3.5 (4.3)	- (4.0)	0.9 (3.2)	- (2.2)	0.5 (2.0)	- (1.8)	12.8 (1.8)	1.6 (1.8)	21.8	100.0
Cyprus	- (25.0)	- (22.0)	6.8 (9.9)	- (7.6)	- (5.2)	- (4.3)	- (4.0)	22.4 (3.2)	- (2.2)	39.5 (2.0)	18.3 (1.8)	- (1.8)	12.9 (1.8)	-	100.0
Greece	- (25.0)	- (22.0)	61.6 (9.9)	9.9 (7.6)	- (5.2)	- (4.3)	- (4.0)	- (3.2)	- (2.2)	- (2.0)	- (1.8)	- (1.8)	25.8 (1.8)	2.6	100.0
New Caledonia	100.0 (25.0)	- (22.0)	- (9.9)	- (7.6)	- (5.2)	- (4.3)	- (4.0)	- (3.2)	- (2.2)	- (2.0)	- (1.8)	- (1.8)	- (1.8)	-	100.0

Cont.....

Table 72. (continued)

(a) South Africa, Albania, and India were also substantial exporters of chromite during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 119 below showing the origin of imports for selected countries.

(b) Null percentages shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total imports of importing country}}{\text{Total world imports}} \times 100$$

Source: Actual percentages based on data given in Table 71 above, and null percentages based on data given in Table 78 below.

Table 73.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1920-1929

Thousands of tonnes

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
United States	153	83	92	131	120	152	219	226	220	323
United Kingdom	24	10	8	22	25	20	7	17	23	28
Norway	3	4	2	-	4	7	4	7	13	12
Czechoslovakia	1	1	1	(s)	1	2	2	4	2	3
Australia	1	1	(s)	(s)	(s)	2	1	(s)	(s)	(s)
Germany	-	-	25	8	3	26	21	37	47	42
Sweden	-	-	-	-	7	8	12	22	28	24
Poland	-	-	-	-	-	-	(s)	(s)	(s)	1
Switzerland	-	-	-	-	-	-	-	-	5(e)	6(e)
Total small imports (s)	-	-	-	-	-	-	-	-	-	-
Total	182	99	128	161	160	217	266	313	338	439

(s) Small imports of less than 500 tonnes recorded.

(e) Estimate.

Source: Based on statistics recorded by Imperial Mineral Resources Bureau in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1920-1922 (published 1924), His Majesty's Stationery Office, London, and by Mineral Resources Department, Imperial Institute, in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1922-1924 (published 1925) & 1924-1926 (published 1927) & 1926-1928 (published 1929) & 1928-1930

Table 73. (continued)

(published 1931), His Majesty's Stationery Office, London.

Table 74.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1930-1939

Thousands of tonnes

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
United States	336	216	91	106(a)	173(a)	241(a)	329	563	358	323
Germany	29	28	43	48	77	95	123	132	176	193
Sweden	26	16	10	39	36	41	51	72	50	44
Norway	20	9	11	18	37	38	42	33	50	20
United Kingdom	17	13	21	29	37	26	42	45	37	51
Switzerland	4(e)	3(e)	-	-	-	-	-	-	-	-
Czechoslovakia	2	1	2	2	2	8	6	11	6	(n)
Australia	(s)	-	-	(s)	-	1	3	2	8	4
Poland	(s)	(s)	(s)	1	(n)	(n)	7	4	7	(n)
France	(n)	13	13	21	27	34	47	38	40	57
Yugoslavia	-	-	-	(s)	-	1	-	-	-	-
Canada	-	-	-	-	-	-	(n)	(n)	8(b)	15
Japan	-	-	-	-	-	-	-	-	2	13
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	434	299	191	264	389	485	650	900	742	720

Cont.....

- (s) Small imports of less than 500 tonnes recorded.
- (n) Not known.
- (e) Estimate.
- (a) Source gives only Cr_2O_3 content of imports. Converted to chromite by multiplication by 2.08 on assumption ore contains 48% Cr_2O_3 .
- (b) April–December only.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1930–1932 (published 1933) & 1933–1935 (published 1936) & 1936–1938 (published 1939) & 1938–1944 (published 1948), His Majesty's Stationery Office, London.

Table 75.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1940-1949

Thousands of tonnes

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
United States	668	1011	890	833	770	840	691	1003	1399	1092
United Kingdom	89	57	101	37	95	44	67	89	116	134
Germany	37	25	166	184	65(a)	(n)	(n)	(n)	7(b)	50(b)
Japan	33	51	33	40	19	4	(n)	(n)	(n)	(n)
France	32	-	-	1	1	9	47	43	38(c)	36(c)
Canada	27	84	79	94	35	55	14	89	63	60
Sweden	24	3	(s)	(s)	(s)	13	46	57	27	31
Norway	15	(s)	5	18	19	-	10	52	51	40
Australia	11	12	6	25	-	2	-	1	3	7
Italy	-	11	38	20	(n)	(n)	3	3	(n)	(n)
Israel	-	-	-	-	-	1	-	(n)	(n)	(n)
Czechoslovakia	(n)	(n)	(n)	(n)	(n)	(n)	3	3	2(d)	(n)
Poland	(n)	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	(n)	(n)	(n)	(n)	(n)
Belgium	-	-	-	-	-	(n)	(n)	(n)	(n)	(n)
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	936	1254	1318	1252	1004	968	881	1340	1706	1450

Cont.....

Table 75. (continued)

- (s) Small imports of less than 500 tonnes recorded.
- (n) Not known.
- (a) January–July only.
- (b) West Germany.
- (c) Imports from Turkey and New Caledonia only.
- (d) January–October only.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1938-1944 (published 1948), His Majesty's Stationery Office, London, and by Imperial Institute in The Mineral Industry of the British Commonwealth and Foreign Countries, Statistical Summary, 1941-1947 (published 1949), His Majesty's Stationery Office, London, and by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1945-1951 (published 1953), Her Majesty's Stationery Office, London.

Table 76.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1950-1959

Thousands of tonnes

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
United States	1180	1296	1550	2020	1334	1664	1973	2071	1146	1409
United Kingdom	108	134	170	163	137	154	146	191	181	168
Canada	108	133	135	107	34	47	59	101	35	44
West Germany	74	107	105	98	208	238	222	176	259	268
Sweden	55	41	48	58	41	80	66	89	60	111
Norway	52	50	51	48	31	78	87	61	47	74
France	22	69	84	64	59	106	149	129	106	154
Japan	7	28	13	20	59	58	136	250	75	261
Italy	6(a)	17	19	14	26	26	35	33	20	54
Australia	2	5	5	6	4	5	7	6	9	6
Belgium-Luxembourg	1	3	2	(s)	(s)	1	1	1	(s)	(s)
Austria	(n)	49	50	61	58	58	64	107	56	53
Netherlands	(n)	(s)	(s)	(s)	(s)	(s)	(s)	(s)	1	1
Hungary	-	-	-	-	29	30	18	12	32	22
Yugoslavia	-	-	-	-	1	(s)	-	12	33	5
Zambia	-	-	-	-	-	-	-	-	-	(n)
East Germany	-	-	-	-	-	-	-	-	-	45(b)
Poland	-	-	-	-	-	-	-	-	-	62
Spain	-	-	-	-	-	-	-	-	-	(n)

Cont.....

Table 76. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Brazil	-	-	-	-	-	-	-	-	-	(s)
Total small imports(s)	-	-	-	1	1	1	-	-	-	1
Total	1615	1932	2232	2660	2022	2546	2963	3239	2060	2738

(s) Small imports of less than 500 tonnes recorded.

(n) Not known.

(a) July-December only.

(b) Source gives only Cr_2O_3 content of imports. Converted to chromite by multiplication by 2.08 on assumption ore contains 48% Cr_2O_3 .

Source: Based on statistics recorded by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1950-1955 (published 1957), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Overseas Geological Surveys, in Statistical Summary of the Mineral Industry, 1954-1959 (published 1961) & 1959-1964 (published 1966), Her Majesty's Stationery Office, London.

Table 77.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1960-1969

Thousands of tonnes

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
United States	1258	1206	1311	1262	1295	1372	1691	1125	984	1003
West Germany	362	324	228	174	237	306	308	285	361	489
United Kingdom	297	261	118	162	226	204	189	100	159	199
Japan	279	324	255	227	396	360	422	596	636	733
France	189	198	161	154	193	224	237	249	263	330
Sweden	141	107	106	115	152	141	159	141	149	184
Poland	101	125	(n)	85	117	155	144	150	137	162
Norway	94	102	51	32	109	77	70	63	70	95
Italy	71	76	56	45	80	100	112	95	63	160
Austria	60	83	63	47	50	41	48	37	55	85
Canada	54	65	65	45	56(a)	96(a)	57(a)	94(a)	61(a)	114(a)
East Germany(b)	53	54	71	34	62	62	30	73	60	65
Hungary	26	29	27	36	30	(n)	(n)	(n)	(n)	(n)
Yugoslavia	23	16	37	59	60	55	40	54	75	66
Australia	22	17	9	16	33	8	4	26	24	19
Belgium-Luxembourg	14	12	(s)	1	1	1	2	2	14	18
Brazil	8	2	4	-	-	-	2	6	7	7
India	5	3	2	-	-	(s)	(s)	(s)	-	-
Netherlands	1	1	2	3	3	5	4	6	3	4
Spain	(n)	17	20	15	18	30	29	16	29	45
Taiwan	(n)	(n)	(n)	(s)	(n)	(s)	1	(s)	-	(n)

Cont.....

Table 77. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
South Africa	(n)	(n)	(n)	(n)	49	79	98	30	23	32
Zambia	(n)	(n)	(n)	(n)	(s)	(s)	1	1	1	2
Czechoslovakia	-	-	-	-	-	-	-	157	191	181
Argentina	-	-	-	-	-	-	-	(s)	(s)	5
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	3058	3022	2586	2512	3167	3316	3648	3306	3365	3998

(s) Small imports of less than 500 tonnes recorded.

(n) Not known.

(a) Source gives only Cr content of imports. Converted to chromite by multiplication by 3.04 knowing Cr_2O_3 contains 68.4% Cr and assuming ore contains 48.0% Cr_2O_3 .

(b) Source gives only Cr_2O_3 content of imports. Converted to chromite by multiplication by 2.08 on assumption ore contains 48.0% Cr_2O_3 .

Source: Based on statistics recorded by Mineral Resources Section, Institute of Geological Sciences Overseas Division, in Statistical Summary of the Mineral Industry, 1960-1965 (published 1967), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Institute of Geological Sciences, in Statistical Summary of the Mineral Industry, 1962-1967 (published 1969) & 1967-1971 (published 1973), Her Majesty's Stationery Office, London.

Table 78.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1970-1979

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United States	1275	1178	958	845	1000	1136	1157	1173	919	929
Japan	1150	1162	875	1164	1155	1269	1217	900	670	962
West Germany	491(a)	483	372	509	387	561	547	416	372	547
France	421	340	276	331	365	364	345	281	242	262
Sweden	197	188	146	247	270	396	378	385	558	674
United Kingdom	165	207	77	199	138	144	138	198	138	92
Italy	143	202	194	200	150	161	237	187	140	232
Poland	141	153	169	175	162	192	195	216	199	211
East Germany(b)	87	102	114	81	92	121	102	89	108	94
Canada	84(c)	90(c)	68(b)	76(b)	87(b)	90(b)	121(b)	125(b)	98(b)	83(b)
Austria	82	94	60	80	114	123	63	85	62	57
Norway	79	82	53	87	86	85	69	28	5	36
Yugoslavia	70	86	59	161	176	172	234	225	219	298
Spain	59	49	55	90	85	98	117	113	95	118
Hungary	53	-	17(d)	10(d)	18(d)	17(d)	17(d)	17(d)	17(d)	17(d)
Mexico	25	38	26	37	50	50	51	49	51	55
South Africa	22	21	124	123	76	80	167	67	1	1
Belgium-Luxembourg	19	22	3	3	4	4	3	4	2	2
Australia	13	26	(s)	5	18	10	3	11	12	12
Argentina	8	1	3	4	5	6	4	5	2	-

Cont.....

Table 78. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Brazil	8	17	5	12	31	9	12	18	19	25
Netherlands	6	10	11	6	28	39	21	26	6	7
Venezuela	4	7	3	3	6	5	13	-	6	-
Taiwan	1	-	4	27	21	3	5	8	3	7
Chile	(s)	(s)	5	12	4	-	-	-	-	-
North Korea	-	-	21	11	20	20	10	10	10	7
Irish Republic	-	-	-	12	13	9	8	6	6	6
Czechoslovakia	-	-	-	-	-	178	-	156	180	168
Portugal	-	-	-	-	-	(s)	1	(s)	1	1
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	4603	4558	3698	4510	4561	5342	5235	4798	4141	4903

- (s) Small imports of less than 500 tonnes recorded.
- (a) West German chromite imports for 1970 shown incorrectly in World Mineral Statistics, 1970-74, and import figure shown is that given in Statistical Summary of the Mineral Industry, 1967-71 (see Source in Table 77 above).
- (b) Source gives only Cr_2O_3 content of imports. Converted to chromite by multiplication by 2.08 on assumption ore contains 48.0% Cr_2O_3 .
- (c) Canadian chromite imports shown in World Mineral Statistics, 1970-74, give Cr content of imports (although not stated as such in source) as indicated by comparing the figures shown with those given in World Mineral Statistics, 1972-76, and in Table 113 below. Converted to chromite by multiplication by 3.04 knowing Cr_2O_3 contains 68.4% Cr and assuming ore

Table 78. (continued)

contains 48.0% Cr_2O_3 .

(d) Exports from Soviet Union.

Source: Based on statistics recorded by Institute of Geological Sciences in World Mineral Statistics, 1970-74 (published 1978) & 1972-76 (published 1979) & 1974-78 (published 1980) & 1976-80 (in press), Her Majesty's Stationery Office, London.

Table 79.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1980

Thousands of tonnes

<u>Country</u>	<u>1980</u>
Japan	950
United States	892
Sweden	332
West Germany	329
Yugoslavia	279
France	279
Poland	198
Czechoslovakia	182
Italy	171
United Kingdom	93
Canada (a)	86
Spain	85
East Germany (a)	83
Austria	77
Mexico	37
Brazil	31
Netherlands	27
Hungary	15
South Africa	7
Taiwan	6
South Korea	5

Cont.....

Table 79. (continued)

<u>Country</u>	<u>1980</u>
Belgium-Luxembourg	2
Irish Republic	(s)
Norway	(s)
Portugal	(s)
Total small imports(s)	1
<hr/>	
Total	4167
<hr/>	

(a) Source gives only Cr_2O_3 content of imports. Converted to chromite by multiplication by 2.08 on assumption ore contains 48.0% Cr_2O_3 .

(s) Small imports of less than 500 tonnes recorded.

Source: Based on statistics recorded by Institute of Geological Sciences, London, in World Mineral Statistics, 1977-1981 (in press).

Table 80.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1920-1929
 Percentage of World Total

Country	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
United States	84	84	72	81	75	70	82	72	65	74
United Kingdom	13	10	6	14	16	9	3	5	7	6
Norway	2	4	2	-	2	3	2	2	4	3
Czechoslovakia	1	1	1	-	1	1	1	1	1	1
Australia	1	1	-	-	-	1	-	-	-	-
Germany	-	-	19	5	2	12	8	12	14	10
Sweden	-	-	-	-	4	4	4	7	8	5
Poland	-	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	1(e)	1(e)
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(e) Estimate.

Source: Based on data given in Table 73 above.

Table 81.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION

1930-1939

Percentage of World Total

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
United States	77	72	48	40	44	50	51	63	48	45
Germany	7	9	23	18	20	20	19	15	24	27
Sweden	6	5	5	15	9	8	8	8	7	6
Norway	5	3	6	7	10	8	6	4	7	3
United Kingdom	4	4	11	11	10	5	6	5	5	7
Switzerland	1(e)	1(e)	-	-	-	-	-	-	-	-
Czechoslovakia	-	-	1	1	-	2	1	1	1	(n)
Australia	-	-	-	-	-	-	-	-	1	1
Poland	-	-	-	-	(n)	(n)	-	-	1	(n)
France	(n)	4	7	8	7	7	7	4	5	8
Yugoslavia	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	(n)	(n)	1(b)	2
Japan	-	-	-	-	-	-	-	-	-	2
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(e) Estimate.

(b) April-December only.

Source: Based on data given in Table 74 above.

Table 82.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1940-1949
 Percentage of World Total

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
United States	71	81	68	67	77	87	78	75	82	75
United Kingdom	10	4	8	3	9	5	8	7	7	9
Germany	4	2	13	15	6(a)	(n)	(n)	(n)	-(b)	3(b)
Japan	3	4	2	3	2	-	(n)	(n)	(n)	(n)
France	3	-	-	-	-	1	5	3	2(c)	2(c)
Canada	3	7	6	8	3	6	2	7	4	4
Sweden	3	-	-	-	-	1	5	4	2	2
Norway	2	-	-	1	2	-	1	4	3	3
Australia	1	1	-	2	-	-	-	-	-	-
Italy	-	1	3	2	(n)	(n)	-	-	(n)	(n)
Israel	-	-	-	-	-	-	-	(n)	(n)	(n)
Czechoslovakia	(n)	(n)	(n)	(n)	(n)	(n)	-	-	-(d)	(n)
Poland	(n)	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	(n)	(n)	(n)	(n)	(n)
Belgium	-	-	-	-	-	(n)	(n)	(n)	(n)	(n)
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

Cont.....

Table 82. (continued)

- (n) Not known.
- (a) January-July only.
- (b) West Germany.
- (c) Imports from Turkey and New Caledonia only.
- (d) January-October only.

Source: Based on data given in Table 75 above.

Table 83.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1950-1959

Percentage of World Total

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
United States	73	67	69	76	66	65	67	64	56	51
United Kingdom	7	7	8	6	7	6	5	6	9	6
Canada	7	7	6	4	2	2	2	3	2	2
West Germany	5	6	5	4	10	9	7	5	13	10
Sweden	3	2	2	2	2	3	2	3	3	4
Norway	3	3	2	2	2	3	3	2	2	3
France	1	4	4	2	3	4	5	4	5	6
Japan	-	1	1	1	3	2	5	8	4	10
Italy	-(a)	1	1	1	1	1	1	1	1	2
Australia	-	-	-	-	-	-	-	-	-	-
Belgium-Luxembourg	-	-	-	-	-	-	-	-	-	-
Austria	(n)	2	2	2	3	2	2	3	3	2
Netherlands (n)	-	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	1	1	1	-	1	1
Yugoslavia	-	-	-	-	-	-	-	-	1	-
Zambia	-	-	-	-	-	-	-	-	-	(n)
East Germany	-	-	-	-	-	-	-	-	-	2
Poland	-	-	-	-	-	-	-	-	-	2
Spain	-	-	-	-	-	-	-	-	-	(n)

Cont.....

Table 83. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Brazil	-	-	-	-	-	-	-	-	-	-
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(a) July-December only.

Source: Based on data given in Table 76 above.

Table 84.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1960-1969

Percentage of World Total

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
United States	41	40	51	50	41	41	46	34	29	25
West Germany	12	11	9	7	7	9	8	9	11	12
United Kingdom	10	9	5	6	7	6	5	3	5	5
Japan	9	11	10	9	12	11	12	18	19	18
France	6	7	6	6	6	7	6	7	8	8
Sweden	5	3	4	5	5	4	4	4	4	5
Poland	3	4	(n)	3	4	5	4	4	4	4
Norway	3	3	2	1	3	2	2	2	2	2
Italy	2	1	2	2	3	3	3	3	2	4
Austria	2	3	2	2	2	1	1	1	2	2
Canada	2	2	3	2	2	3	2	3	2	3
East Germany	2	2	3	1	2	2	1	2	2	2
Hungary	1	1	1	1	1	(n)	(n)	(n)	(n)	(n)
Yugoslavia	1	1	1	2	2	2	1	2	2	2
Australia	1	1	-	1	1	-	-	1	1	-
Belgium-Luxembourg	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 84. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Spain	(n)	1	1	1	1	1	1	-	1	1
Taiwan	(n)	(n)	(n)	-	(n)	-	-	-	-	(n)
South Africa	(n)	(n)	(n)	(n)	1	2	3	1	1	1
Zambia	(n)	(n)	(n)	(n)	-	-	-	-	-	-
Czechos- lovakia	-	-	-	-	-	-	-	5	6	5
Argentina	-	-	-	-	-	-	-	-	-	-
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

Source: Based on data given in Table 77 above.

Table 85.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1970-1979
 Percentage of World Total

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United States	28	26	26	19	22	21	22	24	22	19
Japan	25	25	24	26	25	24	23	19	16	20
West Germany	11	11	10	11	8	11	10	9	9	11
France	9	7	7	7	8	7	7	6	6	5
Sweden	4	4	4	5	6	7	7	8	14	14
United Kingdom	4	5	2	4	3	3	3	4	3	2
Italy	3	4	5	4	3	3	5	4	3	5
Poland	3	3	5	4	4	4	4	5	5	4
East Germany	2	2	3	2	2	2	2	2	3	2
Canada	2	2	2	2	2	2	2	3	2	2
Austria	2	2	2	2	2	2	1	2	2	1
Norway	2	2	1	2	2	2	1	1	-	1
Yugoslavia	2	2	2	4	4	3	4	5	5	6
Spain	1	1	1	2	2	2	2	2	2	2
Hungary	1	-	-	-	-	-	-	-	-	-
Mexico	1	1	1	1	1	1	1	1	1	1
South Africa	-	-	3	3	2	1	3	1	-	-
Belgium-Luxembourg	-	-	-	-	-	-	-	-	-	-
Australia	-	1	-	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 85. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Brazil	-	-	-	-	1	-	-	-	1	1
Netherlands	-	-	-	-	1	1	-	1	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	1	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-	-
North Korea	-	-	1	-	-	-	-	-	-	-
Irish Republic	-	-	-	-	-	-	-	-	-	-
Czechos- lovakia	-	-	-	-	-	3	-	3	4	3
Portugal	-	-	-	-	-	-	-	-	-	-
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

Source: Based on data given in Table 78 above.

Table 86.
 WORLD CHROMITE IMPORTS
 BY COUNTRY OF DESTINATION
 1980

Percentage of World Total

<u>Country</u>	<u>1980</u>
Japan	23
United States	21
Sweden	8
West Germany	8
Yugoslavia	7
France	7
Poland	5
Czechoslovakia	4
Italy	4
United Kingdom	2
Canada	2
Spain	2
East Germany	2
Austria	2
Mexico	1
Brazil	1
Netherlands	1
Hungary	-
South Africa	-
Taiwan	-
South Korea	-
Belgium-Luxembourg	-

Cont.....

Table 86. (continued)

<u>Country</u>	<u>1980</u>
Irish Republic	-
Norway	-
Portugal	-
Total small imports(s)	-
<hr/>	
Total	100
<hr/>	

Source: Based on data given in Table 79 above.

Table 87.
 UNITED STATES CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1933-1940
 Thousands of tonnes

Country	1933	1934	1935	1936	1937	1938	1939	1940
Turkey	28.3	29.2	16.3	19.8	40.0	20.7	16.9	71.2
Cuba	24.2	50.2	48.5	71.1	94.6	40.2	67.1	52.8
New Caledonia	15.4	19.8	56.6	66.5	52.7	29.0	14.6	44.6
Brazil	13.5	-	(s)	-	-	-	-	2.8
Zimbabwe(a)	12.4	48.1	74.7	79.1	210.0	105.4	49.5	161.4
Greece	11.7	23.7	21.0	27.1	25.0	12.2	11.2	14.3
Yugoslavia	5.6	-	-	0.5	-	1.0	1.0	1.0
India	4.2	0.4	15.2	15.0	24.3	4.1	16.7	33.2
Guatemala	2.1	0.8	-	-	-	-	1.9	-
South Africa	1.0	1.5	19.5	42.9	71.3	65.0	64.9	114.6
Soviet Union	-	20.3	3.5	2.3	-	-	-	-
Canada	-	(s)	2.9	(s)	(s)	-	-	0.2
Philippines	-	-	0.8	5.1	44.3	79.5	73.1	159.1
United Kingdom	-	-	4.3	-	-	-	-	-
Sierra Leone(b)	-	-	-	-	0.5	0.6	5.7	14.1
Other	-	1.1	-	-	-	-	-	-
Total	118.4	195.4	263.2	329.4	562.8	357.7	322.6	668.2

(a) Includes imports from Mozambique assumed to be of Rhodesian origin, and imports shown as other British South Africa also assumed to be from Rhodesia (Zimbabwe).

Cont.....

Table 87. (continued)

- (b) Imports shown as British West Africa assumed to be from Sierra Leone.
- (s) Small chromite imports of less than 50 tonnes recorded.
- Source: Based on statistics recorded in The Mineral Industry, 1939-1941, The Engineering and Mining Journal (Inc.).

Table 88.
 UNITED STATES CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1933-1940
 Percentage of Total

Country	1933	1934	1935	1936	1937	1938	1939	1940
Turkey	24	15	6	6	7	6	5	11
Cuba	20	26	18	22	17	11	21	8
New Caledonia	13	10	22	20	9	8	5	7
Brazil	11	-	-	-	-	-	-	-
Zimbabwe(a)	10	25	28	24	37	29	15	24
Greece	10	12	8	8	4	3	3	2
Yugoslavia	5	-	-	-	-	-	-	-
India	4	-	6	5	4	1	5	5
Guatemala	2	-	-	-	-	-	1	-
South Africa	1	1	7	13	13	18	20	17
Soviet Union	-	10	1	1	-	-	-	-
Canada	-	-	1	-	-	-	-	-
Philippines	-	-	-	2	8	22	23	24
United Kingdom	-	-	2	-	-	-	-	-
Sierra Leone(b)	-	-	-	-	-	-	2	2
Other	-	1	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100

(a) Includes imports from Mozambique assumed to be of Rhodesian origin, and imports shown as other British South Africa also assumed to be from Rhodesia (Zimbabwe).

Cont.....

Table 88. (continued)

(b) Imports shown as British West Africa assumed to be from Sierra Leone.

Source: Based on data given in Table 87 above.

Table 89.
 GERMAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1933-1938

Thousands of tonnes

Country	1933	1934	1935	1936	1937	1938
South Africa)					46.6	59.7
Zimbabwe)	20.6	27.4	41.4	36.8	5.6	13.7
Turkey	11.7	18.6	40.6	65.8	65.1	52.6
Soviet Union	6.5	6.4	1.2	-	-	-
Greece	-	-	5.6	8.4	11.5	14.0
New Caledonia	-	-	2.5	10.3	(s)	-
India	-	-	-	-	1.3	-
Yugoslavia	-	-	-	-	-	12.7
Others	9.0	24.6	4.2	2.0	2.0	23.8
Total	47.7	77.0	95.4	123.4	132.2	176.4

(s) Small chromite imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in The Mineral Industry,
 1941, The Engineering and Mining Journal (Inc.).

Table 90.
GERMAN CHROMITE IMPORTS
BY COUNTRY OF ORIGIN

1933-1938

Percentage of Total

Country	1933	1934	1935	1936	1937	1938
South Africa)					35	34
Zimbabwe)	43	36	43	30	4	8
Turkey	25	24	43	53	49	30
Soviet Union	14	8	1	-	-	-
Greece	-	-	6	7	9	8
New Caledonia	-	-	3	8	-	-
India	-	-	-	-	1	-
Yugoslavia	-	-	-	-	-	7
Others	19	32	4	2	2	13
Total	100	100	100	100	100	100

Source: Based on data given in Table 89 above.

Table 91.
 SWEDISH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1934-1938

Thousands of tonnes

Country	1934	1935	1936	1937	1938
Turkey	24.8	0.9	36.7	48.8	41.0
Soviet Union	2.1	0.1	-	-	-
Yugoslavia	0.4	2.7	1.5	8.7	1.2
Zimbabwe(a)	0.2	0.3	6.8	11.0	7.1
India	-	-	5.6	(s)	-
Greece	-	-	-	2.6	(s)
Cyprus	-	-	-	0.5	-
Philippines	-	-	-	0.2	-
Other (r)	8.0	37.2	(s)	-	0.3
Total	35.6	41.2	50.7	71.8	49.6

(s) Small chromite imports of less than 50 tonnes recorded.

(a) Imports shown as British Africa assumed to be from Rhodesia (Zimbabwe) as no South African exports to Sweden recorded for the period, and no significant producers of chromite in British Africa during the period other than Rhodesia and South Africa.

(r) Mostly re-exports from non-producing countries, and of unknown initial origin.

Source: Based on statistics recorded in The Mineral Industry, 1940, The Engineering and Mining Journal (Inc.).

Table 92.
 SWEDISH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1934-1938
 Percentage of Total

Country	1934	1935	1936	1937	1938
Turkey	70	2	72	68	83
Soviet Union	6	-	-	-	-
Yugoslavia	1	7	3	12	2
Zimbabwe (a)	1	1	13	15	14
India	-	-	11	-	-
Greece	-	-	-	4	-
Cyprus	-	-	-	1	-
Philippines	-	-	-	-	-
Other (r)	22	90	-	-	1
Total	100	100	100	100	100

(a) Imports shown as British Africa assumed to be from Rhodesia (Zimbabwe) as no South African exports to Sweden recorded for the period, and no significant producers of chromite in British Africa during the period other than Rhodesia and South Africa.

(r) Mostly re-exports from non-producing countries, and of unknown initial origin.

Source: Based on data given in Table 91 above.

Table 93.
 UNITED KINGDOM CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN

1931-1939

Thousands of tonnes

Country	1931	1932	1933	1934	1935	1936	1937	1938	1939
Zimbabwe	5.8	7.2	6.9	2.6	5.2	8.1	7.1	13.4	14.8(b)
South Africa (a)	5.7	2.1	1.7	3.1	3.5	11.2	17.4	9.9	17.4
India	1.3	7.1	5.4	11.7	3.0	1.6	2.5	5.0	6.9
Turkey	-	0.1	3.8	3.0	4.4	2.6	1.0	3.5	-
Greece	(n)	(n)	7.0	9.9	7.8	12.2	9.6	2.3	9.8
Others	0.2	5.5	4.7	6.7	2.3	6.0	8.0	4.2	2.5
Total	13.1	22.0	29.4	37.1	26.2	41.6	45.6	38.2	51.4

(a) Including imports from Portuguese East Africa assumed to be of South African origin.

(b) Including imports of 5,373 tonnes from Northern Rhodesia (now Zambia).

(n) Not known.

Source: Based on statistics recorded in The Mineral Industry, 1941, The Engineering and Mining Journal (Inc.).

Table 94.
 UNITED KINGDOM CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN

1931-1939

Percentage of Total

Country	1931	1932	1933	1934	1935	1936	1937	1938	1939
Zimbabwe	44	33	23	7	20	19	16	35	29(b)
South Africa (a)	44	10	6	8	13	27	38	26	34
India	10	32	18	32	11	4	5	13	13
Turkey	-	-	13	8	17	6	2	9	-
Greece	-	-	24	27	30	29	21	6	19
Others	2	25	16	18	9	14	18	11	5
Total	100	100	100	100	100	100	100	100	100

(a) Including imports from Portuguese East Africa assumed to be of South African origin.

(b) Including imports of 5,373 tonnes from Northern Rhodesia (now Zambia).

Source: Based on data given in Table 93 above.

Table 95.

CHROMITE IMPORTS OF SELECTED COUNTRIES(a)
 BY COUNTRY OF DESTINATION AND ORIGIN
 AVERAGE FOR YEARS 1935-1937
 ACTUAL AND NULL IMPORTS(b)

Thousands of tonnes

COUNTRY OF DESTINATION	COUNTRY OF ORIGIN											Total
	Zimbabwe	South Africa	Turkey	New Caledonia	Cuba	Greece	India	Philippines	Yugoslavia	Soviet Union	Other	
United States	121.3 (93.0)	44.6 (56.5)	25.4 (86.1)	58.6 (38.2)	71.4 (37.7)	24.4 (23.4)	18.2 (20.7)	16.7 (14.3)	0.2 (12.2)	1.9 (1.9)	2.4	385.1
Germany	43.5 (45.4)	-	57.2 (26.2)	4.3 (11.6)	- (11.5)	8.5 (7.1)	0.4 (6.3)	- (4.3)	- (3.7)	0.4 (0.6)	2.7	117.0
Sweden	6.0 (13.2)	- (8.0)	28.8 (12.2)	- (5.4)	- (5.3)	0.9 (3.3)	1.9 (2.9)	0.1 (2.0)	4.3 (1.7)	- (0.3)	12.6	54.6
United Kingdom	6.8 (9.1)	10.7 (5.5)	2.7 (8.4)	- (3.7)	- (3.7)	9.9 (2.3)	2.4 (2.0)	- (1.4)	- (1.2)	- (0.2)	5.3	37.8

Table 95. (continued)

(a) France and Norway were also substantial importers of chromite during the period, but are not included in the table as detailed information on the origin of their imports is not known. However, some information on the origin of their imports is given in Table 51 above showing the destination of exports for selected countries.

(b) Null imports shown in brackets, and calculated as follows:

$$\text{Null imports} = \frac{\text{Total imports of importing country}}{\text{Total world exports}} \times \frac{\text{Total exports of exporting country}}{\text{Total world exports}}$$

Source: Data on actual imports based on statistics shown in Tables 87, 89, 91, and 93 above, and calculations of null imports based on statistics shown in Tables 87, 89, 91, and 93 above and in Table 23 above.

Table 96.

CHROMITE IMPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF DESTINATION AND ORIGIN

AVERAGE FOR YEARS 1935-1937

ACTUAL AND NULL IMPORTS(b)

Percentage of Total

COUNTRY OF DESTINATION	COUNTRY OF ORIGIN										Total	
	Zimbabwe	South Africa	Turkey	New Caledonia	Cuba	Greece	India	Philippines	Yugoslavia	Soviet Union		Other
United States	31.5 (24.1)	11.6 (14.7)	6.6 (22.4)	15.2 (9.9)	18.5 (9.8)	6.3 (6.1)	4.7 (5.4)	4.3 (3.7)	0.1 (3.2)	0.5 (0.5)	0.6	100.0
Germany	37.2 (38.8)		48.9 (22.4)	3.7 (9.9)	- (9.8)	7.3 (6.1)	0.3 (5.4)	- (3.7)	- (3.2)	0.3 (0.5)	2.3	100.0
Sweden	11.0 (24.1)	- (14.7)	52.7 (22.4)	- (9.9)	- (9.8)	1.6 (6.1)	3.5 (5.4)	0.2 (3.7)	7.9 (3.2)	- (0.5)	23.1	100.0
United Kingdom	18.0 (24.1)	28.3 (14.7)	7.1 (22.4)	- (9.9)	- (9.8)	26.2 (6.1)	6.3 (5.4)	- (3.7)	- (3.2)	- (0.5)	14.0	100.0

Table 96. (continued)

(a) France and Norway were also substantial importers of chromite during the period, but are not included in the table as detailed information on the origin of their imports is not known. However, some information on the origin of their imports is given in Table 51 above showing the destination of exports for selected countries.

(b) Null percentages shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total exports of exporting country}}{\text{Total world exports}} \times 100$$

Source: Actual percentages based on data given in Table 95 above, and null percentages based on data given in Table 23 above.

Table 97.
 JAPANESE CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	445.3	619.3	423.7	342.8	415.6
India	153.9	221.2	310.9	359.7	238.5
Soviet Union	104.2	95.3	122.7	94.8	59.2
Philippines	77.6	115.5	127.0	152.9	148.6
Brazil	40.3	35.6	14.9	-	-
Iran	24.5	11.7	63.8	51.5	77.6
Malagasy	18.9	-	60.3	57.7	134.4
Turkey	10.4	45.1	-	97.6	83.9
Sudan	-	11.8	10.0	14.9	14.1
Albania	-	7.0	-	58.4	2.9
Cuba	-	1.0	-	-	-
Pakistan	-	-	18.0	13.1	7.7
New Caledonia	-	-	3.6	1.0	4.8
Mozambique	-	-	-	13.6	14.5
United States	-	-	-	10.6	14.0
Finland	-	-	-	0.1	(s)
Indonesia	-	-	-	-	1.8
Total	875.0	1,163.6	1,154.9	1,268.9	1,217.4

(s) Small chromite imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 Bureau of Statistics, Japan, December 1977.

Table 98.
 JAPANESE CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	51	53	37	27	34
India	18	19	27	28	20
Soviet Union	12	8	11	7	5
Philippines	9	10	11	12	12
Brazil	5	3	1	-	-
Iran	3	1	6	4	6
Malagasy	2	-	5	5	11
Turkey	1	4	-	8	7
Sudan	-	1	1	1	1
Albania	-	1	-	5	-
Cuba	-	-	-	-	-
Pakistan	-	-	2	1	1
New Caledonia	-	-	-	-	-
Mozambique	-	-	-	1	1
United States	-	-	-	1	1
Finland	-	-	-	-	-
Indonesia	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 97 above.

Table 99.

UNITED STATES CHROMITE IMPORTS (a)
BY COUNTRY OF ORIGIN

1972-1976

Thousands of tonnes (b)

Country	1972	1973	1974	1975	1976
Soviet Union	394	220	270	317	171
South Africa	226	275	309	262	397
Philippines	119	172	240	191	151
Turkey	87	119	109	157	192
Zimbabwe	83	39	65	125	32
Pakistan	24	20	-	-	-
Malagasy	12	-	-	-	-
Iran	13	-	-	10	-
Guatemala	-	(c)	-	-	-
Albania	-	-	6	46	16
Finland	-	-	-	17	153
India	-	-	-	11	16
Sweden	-	-	-	-	24
Colombia	-	-	-	-	4
Canada	-	-	-	-	(c)
Total	958	845	1,000	1,136	1,157

(a) Imports for consumption.

(b) Shown to nearest thousand tonnes.

(c) Imports of less than 500 tonnes recorded.

Source: Based on statistics recorded in Minerals Yearbook,
1973-1977 (published annually), U.S. Bureau of Mines.

Table 100.
 UNITED STATES CHROMITE IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Soviet Union	41	26	27	28	15
South Africa	24	33	31	23	34
Philippines	12	20	24	17	13
Turkey	9	14	11	14	17
Zimbabwe	9	5	7	11	3
Pakistan	3	2	-	-	-
Malagasy	1	-	-	-	-
Iran	1	-	-	1	-
Guatemala	-	-	-	-	-
Albania	-	-	1	4	1
Finland	-	-	-	1	13
India	-	-	-	1	1
Sweden	-	-	-	-	2
Colombia	-	-	-	-	-
Canada	-	-	-	-	-
Total	100	100	100	100	100

(a) Imports for consumption.

Source: Based on data given in Table 99 above.

Table 101.
WEST GERMAN CHROMITE IMPORTS
BY COUNTRY OF ORIGIN
1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	193.5	177.0	175.6	136.9	177.9
Soviet Union	112.6	168.1	82.4	168.1	152.4
Turkey	48.9	54.3	56.0	78.9	64.9
Greece	8.1	8.3	9.4	9.4	5.8
Iran	5.6	4.3	2.7	8.6	23.4
Cyprus	2.0	3.4	0.5	3.4	2.5
Philippines	0.7	1.0	7.5	19.4	2.9
Finland	0.4	0.7	35.8	5.0	19.9
Netherlands	0.2	0.6	0.6	2.4	2.7
Mozambique	-	80.4	7.4	73.8	31.9
Albania	-	8.1	5.2	16.0	13.1
Sudan	-	2.5	2.3	3.7	3.1
United Kingdom	-	-	1.0	0.4	-
France	-	-	0.2	-	-
United States	-	-	-	32.9	30.9
Italy	-	-	-	0.3	0.5
Brazil	-	-	-	-	9.6
Cuba	-	-	-	-	5.0
Belgium- Luxembourg	-	-	-	-	0.6
Total	372.0	508.7	386.5	561.0	547.3

Source: Based on statistics recorded in Personal Communication,
Statistisches Bundesamt, West Germany, December 1977.

Table 102.
WEST GERMAN CHROMITE IMPORTS
BY COUNTRY OF ORIGIN
1972-1976
Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	52	35	45	24	33
Soviet Union	30	33	21	30	28
Turkey	13	11	14	14	12
Greece	2	2	2	2	1
Iran	2	1	1	2	4
Cyprus	1	1	-	1	-
Philippines	-	-	2	3	1
Finland	-	-	9	1	4
Netherlands	-	-	-	-	-
Mozambique	-	16	2	13	6
Albania	-	2	1	3	2
Sudan	-	-	1	1	1
United Kingdom	-	-	-	-	-
France	-	-	-	-	-
United States	-	-	-	6	6
Italy	-	-	-	-	-
Brazil	-	-	-	-	2
Cuba	-	-	-	-	1
Belgium- Luxembourg	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 101 above.

Table 103.
 FRENCH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Malagasy	91.0	117.6	107.4	113.3	105.8
Soviet Union	68.9	92.3	69.4	96.7	93.6
Turkey	37.8	11.3	81.8	43.6	43.8
Iran	26.8	45.7	17.3	24.3	25.0
South Africa	20.6	56.2	61.4	54.9	68.4
Mozambique	9.7	1.4	-	2.9	0.4
Yugoslavia	9.3	-	-	-	-
Gabon	5.3	-	-	-	-
Greece	5.0	2.5	2.0	1.8	1.3
Netherlands	1.2	2.5	2.1	1.8	1.0
West Germany	0.7	0.7	1.4	1.0	0.5
Albania	-	-	18.3	14.9	-
Philippines	-	-	2.1	4.2	-
Sudan	-	-	1.0	0.8	4.0
United Kingdom	-	-	0.5	0.4	-
Finland	-	-	-	1.3	-
Italy	-	-	-	1.3	1.1
Others	0.2	0.5	0.3	0.6	0.4
Total	276.4	330.8	365.3	363.7	345.5

Source: Based on statistics recorded in Personal Communication,
 Institut National de la Statistique et des Études Économiques,
 France, December 1977.

Table 104.
 FRENCH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Malagasy	33	36	29	31	31
Soviet Union	25	28	19	27	27
Turkey	14	3	22	12	13
Iran	10	14	5	7	7
South Africa	7	17	17	15	20
Mozambique	4	-	-	1	-
Yugoslavia	3	-	-	-	-
Gabon	2	-	-	-	-
Greece	2	1	1	-	-
Netherlands	-	1	1	-	-
West Germany	-	-	-	-	-
Albania	-	-	5	4	-
Philippines	-	-	1	1	-
Sudan	-	-	-	-	1
United Kingdom	-	-	-	-	-
Finland	-	-	-	-	-
Italy	-	-	-	-	-
Others	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 103 above.

Table 105.
 SWEDISH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Soviet Union	110.0	184.9	158.6	180.6	127.1
Turkey	22.3	35.5	71.9	83.4	32.1
Finland	8.3	12.2	13.1	59.0	128.9
South Africa	5.6	3.0	4.9	(s)	0.3
United States	(s)	-	-	33.0	33.6
Cuba	-	6.0	-	-	-
Albania	-	5.8	21.8	26.9	10.2
Philippines	-	-	-	10.8	40.2
Cyprus	-	-	-	2.0	-
Netherlands	-	-	-	(s)	-
India	-	-	-	-	5.0
Total	146.2	247.3	270.3	395.7	377.5

(s) Small chromite imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 National Central Bureau of Statistics, Sweden, January 1978.

Table 106.
 SWEDISH CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Soviet Union	75	75	59	46	34
Turkey	15	14	27	21	9
Finland	6	5	5	15	34
South Africa	4	1	2	-	-
United States	-	-	-	8	9
Cuba	-	2	-	-	-
Albania	-	2	8	7	3
Philippines	-	-	-	3	11
Cyprus	-	-	-	1	-
Netherlands	-	-	-	-	-
India	-	-	-	-	1
Total	100	100	100	100	100

Source: Based on data given in Table 105 above.

Table 107.
 ITALIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Soviet Union	54.5	65.3	43.8	26.6	35.0
Albania	53.9	67.2	40.9	34.6	29.6
Turkey	50.7	37.9	23.6	60.7	119.3
South Africa	19.2	20.5	24.8	25.0	34.4
Philippines	10.2	3.4	9.9	11.6	5.3
Greece	2.9	-	-	-	-
Netherlands	1.8	2.5	2.5	1.2	1.5
Yugoslavia	0.2	-	-	-	-
Iran	0.2	0.2	-	-	7.4
Finland	(s)	-	2.4	0.7	1.2
France	(s)	-	0.1	-	(s)
Belgium- Luxembourg	(s)	(s)	(s)	(s)	0.1
Singapore	-	2.0	-	-	-
Cuba	-	0.5	1.5	-	-
Australia	-	0.1	-	-	-
West Germany	-	-	0.1	0.1	0.1
United Kingdom	-	-	0.1	(s)	-
Sweden	-	-	(s)	-	-
United States	-	-	(s)	-	-
Switzerland	-	-	(s)	-	-

Cont.....

Table 107. (continued)

Country	1972	1973	1974	1975	1976
Hungary	-	-	-	0.1	-
Austria	-	-	-	0.1	-
Cyprus	-	-	-	-	1.1
Total	193.6	199.6	149.9	160.7	234.9

(s) Small chromite imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Istituto Centrale di Statistica, Italy, January 1978.

Table 108.
 ITALIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Soviet Union	28	33	29	17	15
Albania	28	34	27	22	13
Turkey	26	19	16	38	51
South Africa	10	10	17	16	15
Philippines	5	2	7	7	2
Greece	1	-	-	-	-
Netherlands	1	1	2	1	1
Yugoslavia	-	-	-	-	-
Iran	-	-	-	-	3
Finland	-	-	2	-	1
France	-	-	-	-	-
Belgium- Luxembourg	-	-	-	-	-
Singapore	-	1	-	-	-
Cuba	-	-	1	-	-
Australia	-	-	-	-	-
West Germany	-	-	-	-	-
United Kingdom	-	-	-	-	-
Sweden	-	-	-	-	-
United States	-	-	-	-	-

Cont.....

Table 108. (continued)

Country	1972	1973	1974	1975	1976
Switzerland	-	-	-	-	-
Hungary	-	-	-	-	-
Austria	-	-	-	-	-
Cyprus	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 107 above.

Table 109.
 UNITED KINGDOM CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1975
 Thousands of tonnes

Country	1972	1973	1974	1975
South Africa	48.1	102.6	45.2	80.8
Philippines	25.4	88.3	63.8	53.1
Mozambique	2.7	-	30.7	-
Cyprus	-	7.1	9.2	4.4
Other	1.0	1.3	2.2	6.2
Total	77.2	199.3	151.1	144.5

Source: Based on statistics recorded in Overseas Trade Statistics of the United Kingdom, HMSO, December 1972-December 1975, and in Industrial Minerals, August 1975.

Table 110.
 UNITED KINGDOM CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1975
 Percentage of Total

Country	1972	1973	1974	1975
South Africa	62	51	30	56
Philippines	33	44	42	37
Mozambique	3	-	20	-
Cyprus	-	4	6	3
Other	1	1	1	4
Total	100	100	100	100

Source: Based on data given in Table 109 above.

Table 111.
 AUSTRIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Turkey	14.2	11.3	26.5	22.3	10.1
South Africa	12.4	24.5	55.2	45.3	17.4
Iran	12.2	11.5	12.6	13.6	8.0
Philippines	8.9	10.5	3.8	20.0	5.8
Cyprus	8.5	11.9	8.6	8.2	4.6
Sudan	3.5	8.0	5.2	3.6	10.4
Italy	0.2	0.5	0.3	0.8	0.5
West Germany	0.2	0.3	1.1	1.8	1.2
Belgium- Luxembourg	0.1	-	-	-	-
Finland	0.1	0.1	0.5	0.8	0.2
Switzerland	0.1	0.2	0.1	-	0.1
Cuba	-	1.0	-	6.1	1.4
Netherlands	-	0.2	0.4	0.5	0.2
Hungary	-	-	-	0.1	-
Pakistan	-	-	-	-	2.7
Soviet Union	-	-	-	-	0.2
Total	60.4	80.0	114.4	123.1	62.8

Source: Based on statistics recorded in Personal Communication,
 "Österreichisches Statistisches Zentralamt, Austria,
 December 1977.

Table 112.
 AUSTRIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Turkey	24	14	23	18	16
South Africa	21	31	48	37	28
Iran	20	14	11	11	13
Philippines	15	13	3	16	9
Cyprus	14	15	8	7	7
Sudan	6	10	5	3	17
Italy	-	1	-	1	1
West Germany	-	-	1	1	2
Belgium- Luxembourg	-	-	-	-	-
Finland	-	-	-	1	-
Switzerland	-	-	-	-	-
Cuba	-	1	-	5	2
Netherlands	-	-	-	-	-
Hungary	-	-	-	-	-
Pakistan	-	-	-	-	4
Soviet Union	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 111 above.

Table 113.
 CANADIAN CHROMITE IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	35.0	26.1	67.2	39.8	31.9
Philippines	9.4	32.5	10.3	29.2	65.7
Mozambique	9.4	-	-	-	4.3
Cyprus	7.6	10.3	2.7	12.8	-
South Africa	6.1	7.0	7.3	8.5	11.2
Ireland	0.6	-	-	-	-
Turkey	-	-	-	-	7.6
Total	68.2	76.1	87.5	90.2	121.2

(a) Data given by Statistics Canada shows Cr content of imported ores and concentrates, and these data have been converted to the chromite imports shown by multiplication by 3.04 on assumption imported ores and concentrates contain average of 48% Cr_2O_3 .

Source: Based on statistics recorded in Personal Communication, Statistics Canada, Ottawa, Canada, January 1978.

Table 114.
CANADIAN CHROMITE IMPORTS
BY COUNTRY OF ORIGIN

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
United States	51	34	77	44	26
Philippines	14	43	12	32	54
Mozambique	14	-	-	-	4
Cyprus	11	14	3	14	-
South Africa	9	9	8	9	9
Ireland	1	-	-	-	-
Turkey	-	-	-	-	6
Total	100	100	100	100	100

Source: Based on data given in Table 113 above.

Table 115.
 NORWEGIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Thousands of tonnes

Country	1972	1973	1974	1975	1976
Turkey	29.2	44.2	71.9	61.6	39.4
Soviet Union	14.5	26.3	10.7	10.8	5.3
Greece	8.6	6.3	3.2	8.6	12.7
Finland	0.3	0.2	0.3	0.5	0.4
Cyprus	-	10.0	-	-	-
South Africa	-	-	0.1	-	-
Albania	-	-	-	3.0	3.0
Iran	-	-	-	-	8.0
Sweden	-	-	-	-	0.1
Total	52.7	87.2	86.2	84.5	68.9

Source: Based on statistics recorded in Personal Communication,
 Central Bureau of Statistics, Norway, December 1977.

Table 116.
 NORWEGIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Turkey	55	51	83	73	57
Soviet Union	28	30	12	13	8
Greece	16	7	4	10	18
Finland	1	-	-	1	1
Cyprus	-	11	-	-	-
South Africa	-	-	-	-	-
Albania	-	-	-	4	4
Iran	-	-	-	-	12
Sweden	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 115 above.

Table 117.
 AUSTRALIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	0.4	0.7	1.1	2.4	1.5
Philippines	-	4.1	6.2	7.2	1.0
Iran	-	-	10.7	-	-
Other	-	-	-	-	1.0
Total	0.4	4.8	18.1	9.6	3.5

Source: Based on statistics recorded in Australian Mineral Industry Annual Review, 1975-1979, Bureau of Mineral Resources, Australia.

Table 118.
 AUSTRALIAN CHROMITE IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	100	15	6	25	43
Philippines	-	85	34	75	29
Iran	-	-	59	-	-
Other	-	-	-	-	29
Total	100	100	100	100	100

Source: Based on data given in Table 117 above.

Table 119.

CHROMITE IMPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF DESTINATION AND ORIGIN

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL IMPORTS(b)

Thousands of tonnes

COUNTRY OF DESTIN- ATION	COUNTRY OF ORIGIN												Total	
	Soviet Union	South Africa	Philippines	Albania	Turkey	India	Iran	Malagasy	Finland	Brazil	Cyprus	Sudan		Other
Japan	107.4 (280.5)	496.1 (248.1)	106.7 (130.0)	2.3 (123.4)	18.5 (111.7)	228.7 (54.3)	33.3 (32.1)	26.4 (31.7)	- (10.3)	30.3 (6.8)	- (6.3)	7.3 (6.0)	7.5	1064.5
United States	294.7 (246.2)	270.0 (217.8)	177.0 (114.1)	2.0 (108.3)	105.0 (97.9)	- (47.7)	4.3 (28.2)	4.0 (27.8)	- (9.1)	- (6.0)	- (5.6)	- (5.3)	77.3	934.3
West Germany	121.0 (111.3)	182.0 (98.5)	3.1 (51.6)	4.4 (49.0)	53.1 (44.3)	- (21.6)	4.2 (12.7)	- (12.6)	12.3 (4.1)	- (2.7)	2.0 (2.5)	1.6 (2.4)	38.7	422.4
France	76.9 (85.4)	46.1 (75.5)	0.7 (39.6)	6.1 (37.6)	43.6 (34.0)	- (16.5)	29.9 (9.8)	105.3 (9.7)	- (3.1)	- (2.1)	- (1.9)	0.3 (1.8)	15.3	324.2
Sweden	151.2 (58.3)	4.5 (51.6)	- (27.0)	9.2 (25.7)	43.2 (23.2)	- (11.3)	- (6.7)	- (6.6)	11.2 (2.1)	- (1.4)	- (1.3)	- (1.2)	2.0	221.3
													Cont.....	

Table 119. (continued)

COUNTRY OF DESTINATION	COUNTRY OF ORIGIN												Total	
	Soviet Union	South Africa	Philippines	Albania	Turkey	India	Iran	Malagasy	Finland	Brazil	Cyprus	Sudan		Other
Italy	54.5 (47.7)	21.5 (42.2)	7.8 (22.1)	54.0 (21.0)	37.4 (19.0)	- (9.2)	0.1 (5.5)	- (5.4)	0.8 (1.8)	- (1.2)	- (1.1)	- (1.0)	4.9	181.0
United Kingdom	- (37.5)	65.3 (33.2)	59.2 (17.4)	- (16.5)	- (14.9)	- (7.3)	- (4.3)	- (4.2)	- (1.4)	- (0.9)	5.4 (0.8)	- (0.8)	12.6	142.5
Austria	- (22.3)	30.7 (19.8)	7.7 (10.4)	- (9.8)	17.3 (8.9)	- (4.3)	12.1 (2.6)	- (2.5)	0.2 (0.8)	- (0.5)	9.7 (0.5)	5.6 (0.5)	1.6	84.9
Canada	- (20.3)	6.8 (18.0)	17.4 (9.4)	- (9.0)	- (8.1)	- (3.9)	- (2.3)	- (2.3)	- (0.7)	- (0.5)	6.9 (0.5)	- (0.4)	46.2	77.3
Norway	17.2 (19.9)	- (17.6)	- (9.2)	- (8.7)	48.4 (7.9)	- (3.8)	- (2.3)	- (2.2)	0.3 (0.7)	- (0.5)	3.3 (0.4)	- (0.4)	6.2	75.4
Australia	- (2.0)	0.7 (1.8)	3.4 (0.9)	- (0.9)	- (0.8)	- (0.4)	3.6 (0.2)	- (0.2)	- (0.1)	-	-	-	0.1	7.8

Cont.....

Table 119. (continued)

- (a) Poland, East Germany, and Spain were also substantial importers of chromite during the period, but are not included in the table as detailed information on the origin of their imports is not known. However, some information on the origin of their imports is given in Table 71 above showing the destination of exports for selected countries.
- (b) Null imports shown in brackets, and calculated as follows:

$$\text{Null imports} = \frac{\text{total imports of importing country}}{\text{Total world exports}} \times \frac{\text{Total exports of exporting country}}{\text{Total world exports}}$$

Source: Data on actual imports based on statistics shown in Tables 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, and 117 above, and calculations of null imports based on statistics shown in Tables 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, and 117 above and in Table 27 above.

Table 120.

CHROMITE IMPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF DESTINATION AND ORIGIN

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL IMPORTS(b)

Percentage of Total

COUNTRY OF DESTINATION	COUNTRY OF ORIGIN													Total
	Soviet Union	South Africa	Philippines	Albania	Turkey	India	Iran	Malagasy	Finland	Brazil	Cyprus	Sudan	Other	
Japan	10.1 (26.4)	46.6 (23.3)	10.0 (12.2)	0.2 (11.6)	1.7 (10.5)	21.5 (5.1)	3.1 (3.0)	2.5 (3.0)	- (1.0)	2.8 (0.6)	- (0.6)	0.7 (0.6)	0.7	100.0
United States	31.5 (26.4)	28.9 (23.3)	18.9 (12.2)	0.2 (11.6)	11.2 (10.5)	- (5.1)	0.5 (3.0)	0.4 (3.0)	- (1.0)	- (0.6)	- (0.6)	- (0.6)	8.3	100.0
West Germany	28.6 (26.4)	43.1 (23.3)	0.7 (12.2)	1.0 (11.6)	12.6 (10.5)	- (5.1)	1.0 (3.0)	- (3.0)	2.9 (1.0)	- (0.6)	0.5 (0.6)	0.4 (0.6)	9.2	100.0
France	23.7 (26.4)	14.2 (23.3)	0.2 (12.2)	1.9 (11.6)	13.4 (10.5)	- (5.1)	9.2 (3.0)	32.5 (3.0)	- (1.0)	- (0.6)	- (0.6)	0.1 (0.6)	4.7	100.0
Sweden	68.3 (26.4)	2.0 (23.3)	- (12.2)	4.2 (11.6)	19.5 (10.5)	- (5.1)	- (3.0)	- (3.0)	5.1 (1.0)	- (0.6)	- (0.6)	- (0.6)	0.9	100.0

Table 120. (continued)

COUNTRY OF DESTIN- ATION	COUNTRY OF ORIGIN												Total	
	Soviet Union	South Africa	Philippines	Albania	Turkey	India	Iran	Malagasy	Finland	Brazil	Cyprus	Sudan		Other
Italy	30.1 (26.4)	11.9 (23.3)	4.3 (12.2)	29.8 (11.6)	20.7 (10.5)	- (5.1)	0.1 (3.0)	- (3.0)	0.4 (1.0)	- (0.6)	- (0.6)	- (0.6)	2.7	100.0
United Kingdom	- (26.4)	45.8 (23.3)	41.5 (12.2)	- (11.6)	- (10.5)	- (5.1)	- (3.0)	- (3.0)	- (1.0)	- (0.6)	3.8 (0.6)	- (0.6)	8.8	100.0
Austria	- (26.4)	36.2 (23.3)	9.1 (12.2)	- (11.6)	20.4 (10.5)	- (5.1)	14.3 (3.0)	- (3.0)	0.2 (1.0)	- (0.6)	11.4 (0.6)	6.6 (0.6)	1.9	100.0
Canada	- (26.4)	8.8 (23.3)	22.5 (12.2)	- (11.6)	- (10.5)	- (5.1)	- (3.0)	- (3.0)	- (1.0)	- (0.6)	8.9 (0.6)	- (0.6)	59.8	100.0
Norway	22.8 (26.4)	- (23.3)	- (12.2)	- (11.6)	64.2 (10.5)	- (5.1)	- (3.0)	- (3.0)	0.4 (1.0)	- (0.6)	4.4 (0.6)	- (0.6)	8.2	100.0
Australia	- (26.4)	9.0 (23.3)	43.6 (12.2)	- (11.6)	- (10.5)	- (5.1)	46.2 (3.0)	- (3.0)	- (1.0)	- (0.6)	- (0.6)	- (0.6)	1.3	100.0

Cont.....

Table 120. (continued)

(a) Poland, East Germany, and Spain were also substantial importers of chromite during the period, but are not included in the table as detailed information on the origin of their imports is not known. However, some information on the origin of their imports is given in Table 71 above showing the destination of exports for selected countries.

(b) Null percentages shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total exports of exporting country}}{\text{Total world exports}} \times 100$$

Source: Actual percentages based on data given in Table 119 above, and null percentages based on data given in Table 27 above.

Table 121.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1930-1939

Thousands of tonnes

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Sweden	5.8	6.0	5.9	9.6	9.1	11.4	12.6	13.1	11.2	14.6
Switzerland	4.6	4.0	1.4	1.1	0.8	0.7	0.7	0.7	1.0	0.7
Norway	4.1	4.9	4.2	8.0	11.9	11.9	11.0	14.9	11.7	15.7
France	0.1	0.4	0.7	1.2	1.0	1.1	1.0	1.1	1.5	1.1
Italy	-	0.3	(s)	-	(s)	(n)	-	-	-	-
Poland	-	-	-	(s)	0.3	0.8	0.4	(s)	0.1	(n)
Yugoslavia	-	-	-	-	-	0.1	0.3	1.1	1.5	1.6
United Kingdom	-	-	-	-	-	-	(s)	(s)	(s)	(s)
United States	-	-	-	-	-	-	-	-	(n)	(n)
Total small exports(s)	-	-	-	-	-	-	-	0.1	-	-
Total	14.6	15.6	12.2	19.9	23.1	26.0	26.0	31.0	27.0	33.7

(s) Small exports of less than 50 tonnes recorded.

(n) Not known.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1930-1932 (published 1933) & 1933-1935 (published 1936) & 1936-1938 (published 1939) & 1938-1944 (published 1948), His Majesty's Stationery Office, London.

Table 122.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1940-1949
 Thousands of tonnes

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Norway	13.4	6.3	2.3	6.3	5.3	0.6	4.6	11.7	15.7	14.8
Sweden	4.4	5.3	0.9	(s)	-	0.2	2.0	3.7	0.3	1.1
Switzerland	3.1	0.8	0.1	(s)	0.6	(s)	(s)	0.5	1.8	1.6
France	0.3	(s)	1.2	(s)	(s)	(s)	(s)	(s)	(n)	(n)
United Kingdom	(s)	(s)	(s)	(s)	-	(s)	0.1	(s)	(s)	(s)
United States	(n)	(n)	5.1	2.1	0.5	1.3	2.3	2.8	6.1	2.0
Canada	-	(n)	(n)	(n)	(n)	(n)	5.7	25.2	20.4	16.5
Poland	(n)	-	-	-	-	-	-	-	-	-
Yugoslavia	(n)	-	-	-	-	-	-	-	-	-
Total small exports(s)	-	-	-	-	-	-	0.1	0.1	-	-
Total	21.2	12.4	9.6	8.4	6.4	2.1	14.8	44.0	44.3	36.0

(s) Small exports of less than 50 tonnes recorded.

(n) Not known.

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1938-1944 (published 1948), His Majesty's Stationery Office, London, and by Imperial Institute in The Mineral Industry of the British Commonwealth and Foreign Countries, Statistical Summary, 1941-1947 (published 1949), His Majesty's Stationery Office, London, and by Mineral Resources Division, Colonial Geological Surveys, in Statistical

Table 122. (continued)

Summary of the Mineral Industry, 1945-1951 (published 1953), Her Majesty's Stationery Office, London.

Table 123.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1950-1959

Thousands of tonnes

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Canada	30.0	39.7	40.2	30.1	13.9	11.2	9.0	9.4	9.5	6.8
Norway	16.4	22.0	19.8	14.5	10.7	26.0	23.0	19.6	14.5	33.4(a)
Sweden	4.7	5.2	6.6	5.8	6.4	11.1	10.7	9.4	10.0	15.8
France	2.4	4.4	4.7	6.3	6.1	11.8	10.3	12.1	10.8	21.3
Yugoslavia	2.3	3.3	1.7	1.9	1.9	3.5	2.9	2.7	7.7	8.0
Switzerland	1.3	3.8	3.3	1.4	-	-	-	-	-	-
Japan	1.3	0.3	(s)	(s)	(s)	2.6	3.6	5.3	4.1	17.5
United States	0.3	0.2	1.2	0.6	1.9	4.3	5.0	4.1	1.7	5.6
Italy	0.2	0.5	0.2	(s)	(s)	0.2	1.7	3.5	(s)	8.9
Zimbabwe	-	-	-	0.2	2.3	6.7	7.8	8.2	6.5	9.8
Soviet Union	-	-	-	-	-	-	-	-	-	18.7
Total small exports(s)	-	-	-	0.1	-	-	-	-	-	-
Total	58.9	79.4	77.7	60.9	43.2	77.4	74.0	74.3	64.8	145.8

(s) Small exports of less than 50 tonnes recorded.

(n) Not known.

(a) Includes 2292 tonnes of ferrochromium-silicon.

Cont.....

Table 123. (continued)

Source: Based on statistics recorded by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1950-1955 (published 1957), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Overseas Geological Surveys, in Statistical Summary of the Mineral Industry, 1954-1959 (published 1961) & 1959-1964 (published 1966), Her Majesty's Stationery Office, London.

Table 124.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1960-1969

Thousands of tonnes

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Norway(a)	41.7	24.8	19.7	32.2	42.4	35.0	29.6	28.5	39.3	41.6
Soviet Union	22.1	21.7	16.0	3.1	15.4	24.8	29.8	31.5	33.3	37.8
France	18.8	16.5	15.3	17.9	18.0	19.7	25.3	21.0	21.7	12.9
Sweden	15.8	19.0	17.3	23.0	21.0	19.0	22.9	23.3	23.0	21.7
Japan	14.8	16.2	12.5	8.0	3.9	23.7	22.2	6.3	5.6	3.1
United States	14.1	7.1	2.8	2.4	9.1	10.9	6.9	12.2	24.6	22.3
Zimbabwe	9.4	9.1	8.0	10.0	22.7	21.3	(n)	(n)	(n)	(n)
Yugoslavia	9.0	7.4	5.9	7.3	7.0	10.1	9.2	8.2	8.4	5.9
Italy	7.6	11.0	2.3	2.0	4.2	7.1	8.1	7.6	3.8	7.4
Canada	4.2	1.5	6.0	2.6	0.2	0.2	(s)	-	-	-
Turkey	-	-	(n)	1.4	5.9	5.9	7.4	5.2	9.8	7.2
South Africa	-	-	-	-	(n)	(n)	(n)	90.3	75.9	107.5
Finland	-	-	-	-	-	-	-	-	0.6	19.7
Spain	-	-	-	-	-	-	-	-	(s)	1.1
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	157.5	134.3	105.8	109.9	149.8	177.7	161.4 (t)	234.1 (t)	246.0 (t)	288.2 (t)

Cont.....

Table 124. (continued)

- (s) Small exports of less than 50 tonnes recorded.
- (n) Not known.
- (a) Include ferrochromium-silicon.
- (t) Total does not include Zimbabwe for which exports not known, and for which significant exports recorded prior to 1966.

Source: Based on statistics recorded by Mineral Resources Section, Institute of Geological Sciences Overseas Division, in Statistical Summary of the Mineral Industry, 1960-1965 (published 1967), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Institute of Geological Sciences, in Statistical Summary of the Mineral Industry, 1962-1967 (published 1969) & 1967-1971 (published 1973), Her Majesty's Stationery Office, London.

Table 125.
 WORLD FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF ORIGIN
 1970-1979

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
South Africa	87.8	88.9	151.9	175.2	250.0	277.0	419.0	400.0	580.0	716.2
Soviet Union	44.8	42.3	48.7	46.4	46.4	44.6	48.8	(b)	(b)	(b)
Norway	33.9	25.2	33.7	29.8	27.6	21.2	28.0	15.0	18.4	20.4
West Germany	33.1	33.0	36.0	38.4	42.2	32.1	70.6	38.0	33.0	31.2
Finland	29.5	26.4	25.5	38.8	44.6	31.0	32.7	26.2	39.3	31.4
Sweden	27.9	25.1	28.4	32.9	41.4	31.0	54.6	90.8	163.2	141.6
United States	25.7	8.3	11.7	14.3	7.6	13.3	12.9	13.8	18.7	14.5
France	11.4	15.0	7.4	10.2	14.6	15.7	28.8	12.6	12.4	10.4
Yugoslavia	10.2	6.7	21.2	25.8	33.1	18.5	23.4	35.9	60.0	57.2
Turkey	7.5	3.5	12.4	10.3	9.4	6.1	8.1	8.0	25.9	32.1
Italy	6.0	6.0	13.1	10.8	10.2	13.3	18.5	11.7	8.5	27.0
Spain	3.4	5.5	4.5	11.0	8.4	7.2	6.4	3.5	3.9	9.2
United Kingdom	3.1	2.1	1.3	0.7	2.3	2.2	1.6	2.0	1.6	2.0
Japan	2.0	27.6	23.0	17.2	57.6	85.2	54.5	16.3	6.4	19.9
India	-	-	1.6	0.9	4.8	3.1	4.8	10.0	9.1	9.0
Brazil	-	-	-	-	26.8	34.5	47.5	46.7	42.4	48.2
Belgium-Luxembourg	-	-	-	-	4.0	4.2	9.4	14.7	9.6	1.6
Netherlands	-	-	-	-	0.8	1.5	7.8	9.5	10.4	1.9
Taiwan	-	-	-	-	0.1	0.3	0.7	0.4	0.6	1.9

Cont.....

Table 125. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Zimbabwe	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	101.5	170.9
Total	326.3	315.6	420.4	462.7	631.9	642.0	878.1	755.1	1144.9	1346.6

(a) Include ferrochromium-silicon.

(b) Not known or included in total as figure given only for total Soviet Union exports of ferro-alloys including ferrochromium.

Source: Based on statistics recorded by Institute of Geological Sciences in World Mineral Statistics, 1970-74 (published 1978) & 1972-76 (published 1979) & 1974-78 (published 1980) & 1976-80 (in press), Her Majesty's Stationery Office, London.

Table 126.
 WORLD FERROCHROMIUM EXPORTS(a) (b)
 BY COUNTRY OF ORIGIN

1980

Thousands of tonnes

Country	1980
South Africa	768.2
Zimbabwe	257.3
Sweden	93.4
Yugoslavia	50.1
Brazil	45.9
West Germany	34.9
United States	29.8
Turkey	27.5
Norway	21.3
Finland	16.6
Italy	11.3
Japan	8.9
Spain	8.0
Netherlands	6.6
France	3.5
Belgium-Luxembourg	1.5
Taiwan	0.7
United Kingdom	0.6
Soviet Union	(c)
Total	1386.1

Cont.....

Table 126. (continued)

- (a) Include ferrochromium-silicon.
- (b) Ferrochromium export figures are not yet available for India, and its exports are not included in the total.
- (c) Not known or included in total as figure given only for total Soviet Union exports of ferro-alloys including ferrochromium.

Source: Based on statistics recorded by Institute of Geological Sciences, London, in World Mineral Statistics, 1977-1981 (in press).

Table 127.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1930-1939
 Percentage of World Total

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Sweden	40	38	48	48	39	44	48	42	42	43
Switzerland	32	26	11	6	3	3	3	2	4	2
Norway	28	31	34	40	52	46	42	48	43	47
France	1	3	6	6	4	4	4	4	6	3
Italy	-	2	-	-	-	(n)	-	-	-	-
Poland	-	-	-	-	1	3	2	-	-	(n)
Yugoslavia	-	-	-	-	-	-	1	4	6	5
United Kingdom	-	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	(n)	(n)
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

Source: Based on data given in Table 121 above.

Table 128.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1940-1949
 Percentage of World Total

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Norway	63	51	24	75	83	29	31	27	35	41
Sweden	21	43	9	-	-	10	14	8	1	3
Switzerland	15	6	1	-	9	-	-	1	4	4
France	1	-	13	-	-	-	-	-	(n)	(n)
United Kingdom	-	-	-	-	-	-	1	-	-	-
United States	(n)	(n)	53	25	8	62	16	6	14	6
Canada	-	(n)	(n)	(n)	(n)	(n)	39	57	46	46
Poland	(n)	-	-	-	-	-	-	-	-	-
Yugoslavia	(n)	-	-	-	-	-	-	-	-	-
Total small exports(s)	-	-	-	-	-	-	1	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

Source: Based on data given in Table 122 above.

Table 129.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1950-1959
 Percentage of World Total

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Canada	51	50	52	50	32	14	12	13	15	5
Norway	28	28	26	24	25	34	31	26	22	23(a)
Sweden	8	6	9	10	15	14	14	13	15	11
France	4	5	6	10	14	15	14	16	15	15
Yugoslavia	4	4	2	3	4	5	4	4	12	5
Switzerland	2	5	4	2	-	-	-	-	-	-
Japan	2	-	-	-	-	3	5	7	6	12
United States	-	-	1	1	4	6	7	5	3	4
Italy	-	1	-	-	-	-	2	5	-	6
Zimbabwe	-	-	-	-	5	9	11	11	10	7
Soviet Union	-	-	-	-	-	-	-	-	-	13
Total small exports(s)	1	1	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(a) Includes ferrochromium-silicon.

Source: Based on data given in Table 123 above.

Table 130.
 WORLD FERROCHROMIUM EXPORTS
 BY COUNTRY OF ORIGIN
 1960-1969
 Percentage of World Total

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Norway(a)	26	18	19	29	28	20	18	12	16	14
Soviet Union	14	16	15	3	10	14	18	13	14	13
France	12	12	14	16	12	11	16	9	9	4
Sweden	10	14	16	21	14	11	14	10	9	8
Japan	9	12	12	7	3	13	14	3	2	1
United States	9	5	3	2	6	6	4	5	10	8
Zimbabwe	6	7	8	9	15	12	(n)	(n)	(n)	(n)
Yugoslavia	6	6	6	7	5	6	6	4	3	2
Italy	5	8	2	2	3	4	5	3	2	3
Canada	3	1	6	2	-	-	-	-	-	-
Turkey	-	-	(n)	1	4	3	5	2	4	2
South Africa	-	-	-	-	(n)	(n)	(n)	39	31	37
Finland	-	-	-	-	-	-	-	-	-	7
Spain	-	-	-	-	-	-	-	-	-	-
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100(t)	100(t)	100(t)	100(t)

Cont.....

Table 130. (continued)

- (n) Not known.
- (a) Include ferrochromium-silicon.
- (t) Percentages based on total that does not include Zimbabwe for which exports not known, and for which significant exports recorded prior to 1966.

Source: Based on data given in Table 124 above.

Table 131.
 WORLD FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF ORIGIN
 1970-1979
 Percentage of World Total

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
South Africa	27	28	36	38	40	43	48	53	51	53
Soviet Union	14	13	12	10	7	7	6	(b)	(b)	(b)
Norway	10	8	8	6	4	3	3	2	2	2
West Germany	10	10	9	8	7	5	8	5	3	2
Finland	9	8	6	8	7	5	4	3	3	2
Sweden	9	8	7	7	7	5	6	12	14	11
United States	8	3	3	3	1	2	1	2	2	1
France	3	4	2	2	2	2	3	2	1	1
Yugoslavia	3	2	5	6	5	3	3	5	5	4
Turkey	2	1	3	2	1	1	1	1	2	2
Italy	2	2	3	2	2	2	2	2	1	2
Spain	1	2	1	2	1	1	1	-	-	1
United Kingdom	1	1	-	-	-	-	-	-	-	-
Japan	1	9	5	4	9	13	6	2	1	1
India	-	-	-	-	1	-	1	1	1	1
Brazil	-	-	-	-	4	5	5	6	4	4
Belgium-Luxembourg	-	-	-	-	1	1	1	2	1	-
Netherlands	-	-	-	-	-	-	1	1	1	-

Cont.....

Table 131. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Taiwan	-	-	-	-	-	-	-	-	-	-
Zimbabwe	(n)	(n)	(n)	(n)	(n)	(n)	(n)	(n)	9	13
Total small exports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(a) Include ferrochromium-silicon.

(b) Not known and percentages based on total that does not include ferrochromium exports by Soviet Union.

Source: Based on data given in Table 125 above.

Table 132.

WORLD FERROCHROMIUM EXPORTS(a) (b)
BY COUNTRY OF ORIGIN

1980

Percentage of World Total

Country	1980
South Africa	55
Zimbabwe	19
Sweden	7
Yugoslavia	4
Brazil	3
West Germany	3
United States	2
Turkey	2
Norway	2
Finland	1
Italy	1
Japan	1
Spain	1
Netherlands	-
France	-
Belgium-Luxembourg	-
Taiwan	-
United Kingdom	-
Soviet Union	(c)
Total small exports(s)	-
Total	100

Cont.....

Table 132. (continued)

- (a) Include ferrochromium-silicon.
- (b) Ferrochromium export figures are not yet available for India, and its exports are not included in the total on which the percentages are based.
- (c) Not known and percentages based on total that does not include ferrochromium exports by Soviet Union.

Source: Based on data given in Table 126 above.

Table 133.
 WEST GERMAN FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Belgium- Luxembourg	8.7	7.4	9.4	4.7	5.5
Italy	7.4	6.7	5.4	7.6	28.2
France	5.7	7.6	9.1	4.1	11.0
United States	4.0	2.4	6.2	6.2	3.7
Austria	2.7	4.4	1.4	0.3	0.6
United Kingdom	2.4	2.7	3.8	3.4	2.3
Netherlands	2.1	2.6	2.3	2.0	2.0
Sweden	1.6	1.7	0.2	0.5	0.8
Spain	0.6	0.4	0.1	0.1	0.2
Argentina	0.2	0.9	1.8	1.3	1.2
Switzerland	0.1	0.2	0.3	1.1	14.5
Iran	0.1	0.1	-	-	-
Czechoslovakia	0.1	0.3	-	-	0.1
Chile	0.1	-	(s)	-	-
Yugoslavia	0.1	-	-	(s)	-
Portugal	(s)	-	-	(s)	-
Brazil	(s)	(s)	0.1	(s)	0.1
Rumania	-	0.6	1.4	0.1	0.1
Philippines	-	0.2	(s)	0.2	-
Tunisia	-	(s)	-	-	-
Mexico	-	(s)	0.1	-	-
Peru	-	(s)	(s)	-	-

Cont.....

Table 133. (continued)

Country	1972	1973	1974	1975	1976
Pakistan	-	-	0.1	-	-
Australia	-	-	0.1	-	(s)
Turkey	-	-	0.1	0.1	-
Taiwan	-	-	(s)	-	-
Venezuela	-	-	(s)	-	-
Denmark	-	-	-	(s)	-
Total	36.0	38.5	42.2	32.1	70.6

(a) Includes both ferrochromium and ferrochromium-silicon.

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Statistisches Bundesamt, West Germany, December 1977.

Table 134.
 WEST GERMAN FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Belgium- Luxembourg	24	19	22	15	8
Italy	21	17	13	24	40
France	16	20	22	13	16
United States	11	6	15	19	5
Austria	8	11	3	1	1
United Kingdom	7	7	9	11	3
Netherlands	6	7	5	6	3
Sweden	4	4	-	2	1
Spain	2	1	-	-	-
Argentina	1	2	4	4	2
Switzerland	-	1	1	3	21
Iran	-	-	-	-	-
Czechoslovakia	-	1	-	-	-
Chile	-	-	-	-	-
Yugoslavia	-	-	-	-	-
Portugal	-	-	-	-	-
Brazil	-	-	-	-	-
Rumania	-	2	3	-	-
Philippines	-	1	-	1	-
Tunisia	-	-	-	-	-
Mexico	-	-	-	-	-
Peru	-	-	-	-	-

Cont.....

Table 134. (continued)

Country	1972	1973	1974	1975	1976
Pakistan	-	-	-	-	-
Australia	-	-	-	-	-
Turkey	-	-	-	-	-
Taiwan	-	-	-	-	-
Venezuela	-	-	-	-	-
Denmark	-	-	-	-	-
Total	100	100	100	100	100

(a) Includes both ferrochromium and ferrochromium-silicon.

Source: Based on data given in Table 133 above.

Table 135.
FINNISH FERROCHROMIUM EXPORTS (a)
BY COUNTRY OF DESTINATION

1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	11.6	4.1	3.3	5.5	2.1
Belgium- Luxembourg	5.3	10.5	1.9	4.5	2.9
Sweden	3.9	9.7	19.2	11.6	10.5
Switzerland	2.7	3.6	10.2	1.8	8.8
Italy	2.0	9.0	5.9	5.6	2.4
United Kingdom	(s)	0.6	-	-	1.0
Norway	(s)	-	-	-	(s)
Poland	-	1.0	-	-	-
Netherlands	-	0.3	4.2	1.7	1.6
Denmark	-	-	-	0.2	-
Soviet Union	-	-	-	(s)	-
West Germany	-	-	-	-	3.5
Total	25.5	38.8	44.6	31.0	32.7

(a) Includes both ferrochromium and ferrochromium-silicon.

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Board of Customs, Finland, December 1977.

Table 136.
 FINNISH FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
United States	45	11	7	18	6
Belgium- Luxembourg	21	27	4	15	9
Sweden	15	25	43	37	32
Switzerland	11	9	23	6	27
Italy	8	23	13	18	7
United Kingdom	-	2	-	-	3
Norway	-	-	-	-	-
Poland	-	3	-	-	-
Netherlands	-	1	9	5	5
Denmark	-	-	-	1	-
Soviet Union	-	-	-	-	-
West Germany	-	-	-	-	11
Total	100	100	100	100	100

(a) Includes both ferrochromium and ferrochromium-silicon.

Source: Based on data shown in Table 135 above.

Table 137.
 SWEDISH FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	13.1	16.5	18.4	14.4	31.5
United States	9.0	6.3	7.0	2.8	3.1
West Germany	2.3	5.4	4.8	5.9	5.8
Austria	2.0	1.0	1.2	0.5	2.0
Denmark	0.7	0.6	0.8	0.7	0.8
Australia	0.5	0.6	0.7	1.6	0.2
Switzerland	0.3	0.4	0.4	0.4	0.9
Canada	0.2	0.2	0.7	0.4	0.5
Netherlands	0.1	0.2	1.3	1.9	0.1
Spain	(s)	(s)	(s)	(s)	3.5
South Africa	(s)	(s)	(s)	(s)	(s)
Finland	(s)	0.1	0.1	0.3	0.2
Argentina	(s)	0.2	(s)	(s)	(s)
Brazil	(s)	(s)	0.1	(s)	0.2
Yugoslavia	(s)	(s)	(s)	(s)	(s)
Italy	(s)	0.1	0.2	0.1	2.2
Portugal	(s)	-	0.1	-	(s)
Belgium- Luxembourg	(s)	(s)	1.9	1.0	2.4
India	(s)	-	-	(s)	(s)
Czechoslovakia	(s)	(s)	-	-	0.2
Israel	(s)	(s)	(s)	(s)	(s)

Cont.....

Table 137. (continued)

Country	1972	1973	1974	1975	1976
Greece	(s)	-	(s)	-	(s)
Chile	(s)	(s)	0.1	(s)	(s)
Norway	(s)	0.5	(s)	0.6	-
Philippines	(s)	(s)	0.1	(s)	(s)
France	-	0.5	2.1	0.3	0.1
Turkey	-	(s)	-	(s)	(s)
Malaysia	-	(s)	(s)	-	-
Ireland	-	(s)	(s)	(s)	(s)
New Zealand	-	(s)	(s)	-	(s)
Pakistan	-	-	1.0	-	-
Rumania	-	-	0.2	-	0.6
Mexico	-	-	(s)	(s)	(s)
East Germany	-	-	(s)	-	(s)
Hong Kong	-	-	(s)	0.1	0.1
Poland	-	-	(s)	(s)	(s)
Iran	-	-	-	(s)	(s)
Indonesia	-	-	-	(s)	(s)
Colombia	-	-	-	-	(s)
Total	28.4	32.9	41.4	31.1	54.6

(a) Includes both ferrochromium and ferrochromium-silicon.

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
National Central Bureau of Statistics, Sweden, January 1978.

Table 138.
 SWEDISH FERROCHROMIUM EXPORTS(a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
United Kingdom	46	50	44	46	58
United States	32	19	17	9	6
West Germany	8	16	12	19	11
Austria	7	3	3	2	4
Denmark	2	2	2	2	1
Australia	2	2	2	5	-
Switzerland	1	1	1	1	2
Canada	1	1	2	1	1
Netherlands	-	1	3	6	-
Spain	-	-	-	-	6
South Africa	-	-	-	-	-
Finland	-	-	-	1	-
Argentina	-	1	-	-	-
Brazil	-	-	-	-	-
Yugoslavia	-	-	-	-	-
Italy	-	-	-	-	4
Portugal	-	-	-	-	-
Belgium- Luxembourg	-	-	5	3	4
India	-	-	-	-	-
Czechoslovakia	-	-	-	-	-
Israel	-	-	-	-	-

Cont.....

Table 138. (continued)

Country	1972	1973	1974	1975	1976
Greece	-	-	-	-	-
Chile	-	-	-	-	-
Norway	-	2	-	2	-
Philippines	-	-	-	-	-
France	-	2	5	1	-
Turkey	-	-	-	-	-
Malaysia	-	-	-	-	-
Ireland	-	-	-	-	-
New Zealand	-	-	-	-	-
Pakistan	-	-	2	-	-
Rumania	-	-	-	-	1
Mexico	-	-	-	-	-
East Germany	-	-	-	-	-
Hong Kong	-	-	-	-	-
Poland	-	-	-	-	-
Iran	-	-	-	-	-
Indonesia	-	-	-	-	-
Colombia	-	-	-	-	-
Total	100	100	100	100	100

(a) Includes both ferrochromium and ferrochromium-silicon.

Source: Based on data given in Table 137 above.

Table 139.
 JAPANESE FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	18.4	12.1	31.4	56.7	31.7
Australia	2.2	0.8	0.6	1.7	1.3
Rumania	0.5	-	(s)	1.7	0.1
Sweden	0.4	0.7	0.2	0.4	0.2
Taiwan	0.2	0.4	0.2	0.2	0.2
Belgium	0.2	-	0.3	0.1	-
Canada	0.2	-	0.2	2.7	0.6
United Kingdom	0.2	0.4	1.1	1.9	2.1
China	0.1	-	-	-	-
Philippines	0.1	0.6	0.9	0.1	0.2
South Korea	0.1	0.4	0.4	0.5	0.8
Finland	0.1	0.2	-	-	-
Colombia	(s)	(s)	-	(s)	(s)
West Germany	(s)	0.6	5.3	4.6	0.3
Singapore	(s)	(s)	(s)	(s)	(s)
El Salvador	(s)	(s)	-	(s)	-
Iran	(s)	-	-	(s)	0.2
Egypt	(s)	-	-	0.1	(s)
Malaysia	(s)	(s)	(s)	(s)	(s)
Hong Kong	(s)	(s)	(s)	(s)	(s)
Netherlands	-	0.7	13.5	7.6	15.0
Poland	-	0.3	0.6	0.3	-

Cont.....

Table 139. (continued)

Country	1972	1973	1974	1975	1976
Chile	-	(s)	-	(s)	-
Burma	-	(s)	-	(s)	-
Thailand	-	(s)	0.2	0.4	(s)
Mexico	-	-	1.3	1.6	0.7
Switzerland	-	-	0.5	0.3	-
Argentina	-	-	0.3	0.2	(s)
France	-	-	0.2	(s)	-
Italy	-	-	0.2	0.9	-
Portugal	-	-	0.1	-	-
Brazil	-	-	0.1	0.4	0.4
Norway	-	-	(s)	-	-
Spain	-	-	-	1.0	0.1
North Korea	-	-	-	0.3	-
Czechoslovakia	-	-	-	0.1	-
Peru	-	-	-	(s)	-
Sri Lanka	-	-	-	(s)	-
Pakistan	-	-	-	(s)	0.1
New Zealand	-	-	-	(s)	(s)
Ecuador	-	-	-	-	(s)
Total	23.0	17.2	57.6	85.2	54.5

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Bureau of Statistics, Japan, December 1977.

Table 140.
 JAPANESE FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
United States	80	70	55	67	58
Australia	10	5	1	2	2
Rumania	2	-	-	2	-
Sweden	2	4	-	-	-
Taiwan	1	2	-	-	-
Belgium	1	-	1	-	-
Canada	1	-	-	3	1
United Kingdom	1	2	2	2	4
China	-	-	-	-	-
Philippines	-	3	2	-	-
South Korea	-	2	1	1	1
Finland	-	1	-	-	-
Colombia	-	-	-	-	-
West Germany	-	3	9	5	1
Singapore	-	-	-	-	-
El Salvador	-	-	-	-	-
Iran	-	-	-	-	-
Egypt	-	-	-	-	-
Malaysia	-	-	-	-	-
Hong Kong	-	-	-	-	-
Netherlands	-	4	23	9	28
Poland	-	2	1	-	-

Cont.....

Table 140. (continued)

Country	1972	1973	1974	1975	1976
Chile	-	-	-	-	-
Burma	-	-	-	-	-
Thailand	-	-	-	-	-
Mexico	-	-	2	2	1
Switzerland	-	-	1	-	-
Argentina	-	-	1	-	-
France	-	-	-	-	-
Italy	-	-	-	1	-
Portugal	-	-	-	-	-
Brazil	-	-	-	-	1
Norway	-	-	-	-	-
Spain	-	-	-	1	-
North Korea	-	-	-	-	-
Czechoslovakia	-	-	-	-	-
Peru	-	-	-	-	-
Sri Lanka	-	-	-	-	-
Pakistan	-	-	-	-	-
New Zealand	-	-	-	-	-
Ecuador	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data shown in Table 139 above.

Table 141.
 NORWEGIAN FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION

1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	8.7	3.2	4.7	3.4	3.0
West Germany	6.9	2.5	2.4	2.4	5.2
Sweden	6.4	7.2	7.2	5.4	4.5
United Kingdom	5.0	9.4	7.1	6.6	11.1
France	3.2	3.7	3.2	1.7	1.3
Italy	0.5	-	(s)	(s)	0.4
Austria	0.5	0.1	0.3	0.2	0.2
Belgium- Luxembourg	0.3	0.5	0.7	0.3	0.4
Canada	0.3	0.5	0.1	(s)	-
Finland	0.2	0.4	0.7	0.6	0.6
Chile	0.2	-	(s)	-	(s)
Spain	(s)	0.1	0.2	0.1	1.0
Denmark	(s)	(s)	0.1	0.1	0.1
Switzerland	(s)	(s)	(s)	-	(s)
Argentina	(s)	-	-	-	-
Brazil	(s)	(s)	0.2	(s)	(s)
Netherlands	(s)	0.1	(s)	(s)	(s)
Israel	(s)	(s)	0.1	0.1	(s)
Poland	-	0.4	-	-	-
Australia	-	0.1	0.2	(s)	-
Syria	-	0.1	-	-	-

Cont.....

Table 141. (continued)

Country	1972	1973	1974	1975	1976
Iran	-	-	0.1	-	-
Egypt	-	-	-	-	(s)
New Zealand	-	-	-	-	(s)
Total	32.5	28.4	27.4	21.1	28.0

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Central Bureau of Statistics, Norway, December 1977.

Table 142.
 NORWEGIAN FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
United States	27	11	17	16	11
West Germany	21	9	9	11	19
Sweden	20	25	26	26	16
United Kingdom	15	33	26	31	40
France	10	13	12	8	5
Italy	2	-	-	-	1
Austria	2	-	1	1	1
Belgium- Luxembourg	1	2	3	1	1
Canada	1	2	-	-	-
Finland	1	1	3	3	2
Chile	1	-	-	-	-
Spain	-	-	1	-	4
Denmark	-	-	-	-	-
Switzerland	-	-	-	-	-
Argentina	-	-	-	-	-
Brazil	-	-	1	-	-
Netherlands	-	-	-	-	-
Israel	-	-	-	-	-
Poland	-	1	-	-	-
Australia	-	-	1	-	-
Syria	-	-	-	-	-

Cont.....

Table 142. (continued)

Country	1972	1973	1974	1975	1976
Iran	-	-	-	-	-
Egypt	-	-	-	-	-
New Zealand	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data shown in Table 141 above.

Table 143.
 FRENCH FERROCHROMIUM EXPORTS (a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Thousands of tonnes

Country	1972	1973	1974	1975	1976
Italy	11.1	9.8	8.0	4.6	6.0
West Germany	2.0	4.9	5.2	3.3	4.8
United Kingdom	0.6	0.9	0.1	0.2	4.9
United States	0.3	-	-	1.3	2.7
Belgium- Luxembourg	0.3	0.8	0.5	0.9	5.0
Austria	0.2	0.1	0.2	0.3	0.2
Spain	0.2	1.1	-	1.2	0.1
Argentina	0.2	0.1	-	(s)	(s)
Sweden	0.2	0.3	0.3	0.4	0.3
Mexico	0.1	-	-	-	0.1
Brazil	0.1	-	0.1	-	-
Switzerland	0.1	-	(s)	0.1	0.4
Netherlands	(s)	-	0.1	2.6	3.9
Rumania	-	-	-	0.6	0.1
Canada	-	-	-	0.2	-
Algeria	-	-	-	0.1	-
Egypt	-	-	-	-	0.1
Thailand	-	-	-	-	0.1
Other	0.1	0.4	0.2	0.1	0.1
Total	15.5	18.4	14.6	15.7	28.8

Cont.....

Table 143. (continued)

- (a) Includes exports of ferrochromium-silicon.
- (s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Institut National de la Statistique et des Études
Économiques, France, December 1977.

Table 144.
 FRENCH FERROCHROMIUM EXPORTS (a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Italy	72	53	55	29	21
West Germany	13	27	36	21	17
United Kingdom	4	5	1	1	17
United States	2	-	-	8	9
Belgium- Luxembourg	2	4	3	6	17
Austria	1	1	1	2	1
Spain	1	6	-	8	-
Argentina	1	1	-	-	-
Sweden	1	2	2	3	1
Mexico	1	-	-	-	-
Brazil	1	-	1	-	-
Switzerland	1	-	-	1	1
Netherlands	-	-	1	17	14
Rumania	-	-	-	4	-
Canada	-	-	-	1	-
Algeria	-	-	-	1	-
Egypt	-	-	-	-	-
Thailand	-	-	-	-	-
Other	1	2	1	1	-
Total	100	100	100	100	100

Cont.....

Table 144. (continued)

(a) Includes exports of ferrochromium-silicon.

Source: Based on data given in Table 143 above.

Table 145.
 ITALIAN FERROCHROMIUM EXPORTS (a)
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Austria	4.2	2.8	4.1	2.4	1.4
West Germany	2.8	1.6	1.3	3.1	2.3
France	1.9	3.3	2.7	1.5	3.2
Sweden	1.7	2.8	1.8	2.2	6.1
United States	1.5	-	-	-	1.0
Switzerland	0.6	0.1	(s)	0.1	0.1
Netherlands	0.5	(s)	-	0.6	0.6
Belgium- Luxembourg	0.1	0.3	0.2	2.1	1.5
Singapore	(s)	-	-	-	-
United Kingdom	(s)	-	-	1.1	0.4
Spain	(s)	-	(s)	0.1	(s)
Japan	-	(s)	-	-	-
Rumania	-	(s)	0.1	0.2	-
Pakistan	-	-	(s)	-	-
Portugal	-	-	(s)	(s)	(s)
South Africa	-	-	-	(s)	-
Canada	-	-	-	(s)	-
East Germany	-	-	-	-	0.9
Denmark	-	-	-	-	0.7
Mexico	-	-	-	-	0.1
Ireland	-	-	-	-	0.1
Israel	-	-	-	-	(s)
Total	13.3	10.9	10.2	13.4	18.5

Table 145. (continued)

- (a) Includes exports of ferrochromium-silicon.
- (s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication, Istituto Centrale di Statistica, Italy; January 1978.

Table 146.
 ITALIAN FERROCHROMIUM EXPORTS (a)
 BY COUNTRY OF DESTINATION
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Austria	32	26	40	18	8
West Germany	21	15	13	23	12
France	14	30	26	11	17
Sweden	13	26	18	16	33
United States	11	-	-	-	5
Switzerland	5	1	-	1	1
Netherlands	4	-	-	4	3
Belgium- Luxembourg	1	3	2	16	8
Singapore	-	-	-	-	-
United Kingdom	-	-	-	8	2
Spain	-	-	-	1	-
Japan	-	-	-	-	-
Rumania	-	-	1	1	-
Pakistan	-	-	-	-	-
Portugal	-	-	-	-	-
South Africa	-	-	-	-	-
Canada	-	-	-	-	-
East Germany	-	-	-	-	5
Denmark	-	-	-	-	4
Mexico	-	-	-	-	1
Ireland	-	-	-	-	1
Israel	-	-	-	-	-
Total	100	100	100	100	100

Table 146. (continued)

(a) Includes exports of ferrochromium-silicon.

Source: Based on data given in Table 145 above.

Table 147.
 TURKISH FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
United States	7.2	1.8	2.9	1.7	0.5
Belgium- Luxembourg	2.4	2.5	2.3	-	1.2
West Germany	1.9	1.7	-	(s)	-
Italy	0.3	1.3	0.9	0.5	-
Switzerland	0.3	-	-	-	-
Spain	0.2	-	0.6	0.2	1.2
Netherlands	0.1	1.8	1.8	2.7	2.7
United Kingdom	0.1	1.1	0.8	0.3	1.8
Austria	(s)	-	-	-	-
France	-	0.1	0.2	-	-
Rumania	-	-	-	0.6	0.8
Total	12.4	10.3	9.4	6.1	8.1

(s) Small ferrochromium exports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 State Institute of Statistics, Republic of Turkey,
 February 1978.

Table 148.
 TURKISH FERROCHROMIUM EXPORTS
 BY COUNTRY OF DESTINATION
 1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
United States	58	17	31	28	6
Belgium- Luxembourg	19	24	24	-	15
West Germany	15	17	-	-	-
Italy	2	13	10	8	-
Switzerland	2	-	-	-	-
Spain	2	-	6	3	15
Netherlands	1	17	19	44	33
United Kingdom	1	11	9	5	22
Austria	-	-	-	-	-
France	-	1	2	-	-
Rumania	-	-	-	10	10
Total	100	100	100	100	100

Source: Based on data given in Table 147 above.

Table 149.

FERROCHROMIUM EXPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL EXPORTS(b)

Thousands of tonnes

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION											
	United States	West Germany	United Kingdom	Italy	Sweden	Canada	Belgium- Luxembourg	Austria	France	Australia	Other	Total
West Germany	4.2 (10.2)	- -	3.0 (3.7)	6.5 (3.5)	1.2 (3.2)	- (2.1)	8.5 (1.8)	2.8 (1.7)	7.5 (1.3)	- (0.7)	5.2	38.9
Finland	6.3 (9.5)	- (6.2)	0.2 (3.5)	5.6 (3.2)	10.9 (3.0)	- (1.9)	5.9 (1.7)	- (1.5)	- (1.2)	- (0.7)	7.4	36.3
Sweden	7.4 (9.0)	4.2 (5.9)	16.0 (3.3)	0.1 (3.0)	- -	0.4 (1.8)	0.6 (1.6)	1.4 (1.5)	0.9 (1.1)	0.6 (0.6)	2.6	34.2
Japan	20.6 (8.6)	2.0 (5.6)	0.6 (3.1)	0.1 (2.9)	0.4 (2.7)	0.1 (1.7)	0.2 (1.5)	- (1.4)	0.1 (1.1)	1.2 (0.6)	7.3	32.6

Cont.....

Table 149. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION											
	United States	West Germany	United Kingdom	Italy	Sweden	Canada	Belgium-Luxembourg	Austria	France	Australia	Other	Total
Norway	5.5 (7.7)	3.9 (5.1)	7.2 (2.8)	0.2 (2.6)	6.9 (2.4)	0.3 (1.6)	0.5 (1.4)	0.3 (1.2)	3.4 (1.0)	0.1 (0.5)	1.1	29.4
France	0.1 (4.3)	4.0 (2.8)	0.5 (1.5)	9.6 (1.4)	0.3 (1.3)	- (0.9)	0.5 (0.7)	0.2 (0.7)	- -	- (0.3)	1.0	16.2
Italy	0.5 (3.0)	1.9 (2.0)	- (1.1)	- -	2.1 (0.9)	- (0.6)	0.2 (0.5)	3.7 (0.5)	2.6 (0.4)	- (0.2)	0.5	11.5
Turkey	4.0 (2.8)	1.2 (1.8)	0.7 (1.0)	0.8 (1.0)	- (0.9)	- (0.6)	2.4 (0.5)	- (0.5)	0.1 (0.4)	- (0.2)	1.5	10.7

(a) South Africa, Soviet Union, and Yugoslavia were also substantial exporters of ferrochromium during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 183 below showing the origin of imports for selected countries.

Cont.....

Table 149. (continued)

(b) Null exports shown in brackets, and calculated as follows:

$$\text{Null exports} = \text{Total exports of exporting country} \times \frac{\text{Total imports of importing country}}{\text{Total world imports}}$$

Source: Data on actual exports based on statistics shown in Tables 133, 135, 137, 139, 141, 143, 145, and 147 above, and calculations of null exports based on statistics shown in Tables 133, 135, 137, 139, 141, 143, 145, and 147 above and in Table 155 below.

Table 150.

FERROCHROMIUM EXPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF ORIGIN AND DESTINATION

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL EXPORTS(b)

Percentage of Total

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION											
	United States	West Germany	United Kingdom	Italy	Sweden	Canada	Belgium-Luxembourg	Austria	France	Australia	Other	Total
West Germany	10.8 (26.3)	-	7.7 (9.5)	16.7 (8.9)	3.1 (8.2)	-	21.9 (4.6)	7.2 (4.3)	19.3 (3.3)	-	13.4	100.0
Finland	17.4 (26.3)	-	0.6 (9.5)	15.4 (8.9)	30.0 (8.2)	-	16.3 (4.6)	-	3.3 (3.3)	-	20.4	100.0
Sweden	21.6 (26.3)	12.3 (17.2)	46.8 (9.5)	0.3 (8.9)	-	1.2 (5.3)	1.8 (4.6)	4.1 (4.3)	2.6 (3.3)	1.8 (1.8)	7.6	100.0
Japan	63.2 (26.3)	6.1 (17.2)	1.8 (9.5)	0.3 (8.9)	1.2 (8.2)	0.3 (5.3)	0.6 (4.6)	-	0.3 (3.3)	3.7 (1.8)	22.4	100.0

Cont.....

Table 150. (continued)

COUNTRY OF ORIGIN	COUNTRY OF DESTINATION											
	United States	West Germany	United Kingdom	Italy	Sweden	Canada	Belgium-Luxembourg	Austria	France	Australia	Other	Total
Norway	18.7 (26.3)	13.3 (17.2)	24.5 (9.5)	0.7 (8.9)	23.5 (8.2)	1.0 (5.3)	1.7 (4.6)	1.0 (4.3)	11.6 (3.3)	0.3 (1.8)	3.7	100.0
France	0.6 (26.3)	24.7 (17.2)	3.1 (9.5)	59.3 (8.9)	1.9 (8.2)	- (5.3)	3.1 (4.6)	1.2 (4.3)	- (-)	- (1.8)	6.2	100.0
Italy	4.3 (26.3)	16.5 (17.2)	- (9.5)	- (-)	18.3 (8.2)	- (5.3)	1.7 (4.6)	32.2 (4.3)	22.6 (3.3)	- (1.8)	4.3	100.0
Turkey	37.4 (26.3)	11.2 (17.2)	6.5 (9.5)	7.5 (8.9)	- (8.2)	- (5.3)	22.4 (4.6)	- (4.3)	0.9 (3.3)	- (1.8)	14.0	100.0

(a) South Africa, Soviet Union, and Yugoslavia were also substantial exporters of ferrochromium during the period, but are not included in the table as detailed information on the destination of their exports is not known. However, some information on the destination of their exports is given in Table 183 below showing the origin of imports for selected countries.

Cont.....

Table 150. (continued)

(b) Null percentages shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total imports of importing country}}{\text{Total world imports}} \times 100$$

Source: Actual percentages based on data given in Table 149 above, and null percentages based on data given in Table 155 below.

Table 151.
 WORLD FERROCHROMIUM IMPORTS
 BY COUNTRY OF DESTINATION
 1930-1939

Thousands of tonnes

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Soviet Union	2.2	4.2	3.9	9.6	5.3	2.9	-	-	-	-
Switzerland	1.7	1.6	1.2	1.6	1.7	1.7	1.9	2.6	2.4	3.0
France	1.4	0.7	1.1	0.7	0.2	0.1	(s)	0.3	(s)	(s)
Sweden	0.5	0.4	0.2	0.6	1.7	1.5	1.5	1.5	1.3	2.4
Italy	0.5	0.2	0.2	0.5	0.5	(n)	0.7	1.2	0.9	0.5(a)
Poland	0.2	0.2	0.1	0.3	0.3	0.1	0.2	0.1	(s)	(n)
United States	0.2	0.1	0.2	0.2(b)	0.1(b)	0.1(b)	0.1(b)	0.4(b)	0.2(b)	0.2(b)
United Kingdom	-	-	-	6.1	8.0	10.2	14.6	18.4	10.6	14.9
Finland	-	-	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Chile	-	-	-	(s)	0.1	(s)	(s)	(s)	(s)	0.1
Austria	-	-	-	-	-	-	1.6	2.5	2.3	-
Total small imports (s)	-	-	-	-	-	-	-	-	0.1	-
Total	6.7	7.4	6.9	19.6	17.9	16.6	20.6	27.0	17.8	21.1

(s) Small imports of less than 50 tonnes recorded.

(n) Not known.

(a) January-July only.

Cont.....

Table 151. (continued)

- (b) Source gives only Cr content of imports. Converted to ferrochromium by multiplication by 1.46 based on assumption ferrochromium contains 68.5% Cr. This corresponds to average Cr content of ferrochromium imported into United States during years 1959-1964 calculated from data given in Statistical Summary of the Mineral Industry, 1959-1964 (see Source, Table 153 below).

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1930-1932 (published 1933) & 1933-1935 (published 1936) & 1936-1938 (published 1939) & 1938-1944 (published 1948), His Majesty's Stationery Office, London.

Table 152.
 WORLD FERROCHROMIUM IMPORTS
 BY COUNTRY OF DESTINATION
 1940-1949

Thousands of tonnes

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
United Kingdom	19.9	27.3	17.2	28.7	11.5	3.0	3.7	21.1	16.0	10.2
Switzerland	2.8	0.8	0.2	0.2	0.1	0.1	2.3	2.8	4.5	1.3
Sweden	1.4	0.4	0.1	(s)	(s)	(s)	0.7	1.1	2.2	2.3
Finland	(s)	(s)	0.1	(s)	(s)	0.1	0.2	0.1	0.2	0.4
Chile	(s)	(s)	0.1	(s)	(s)	(s)	(s)	(s)	-	(n)
Italy	(n)	1.4	1.5	0.1	(n)	-	0.1	0.1	0.5	1.6
United States(a)	-	0.2	0.5	0.4	1.0	5.6	1.3	8.4	6.1	5.1
France	-	(s)	(s)	0.3	0.4	0.5	0.1	0.8	(n)	(n)
Austria	(n)	-	-	-	-	(n)	(n)	(n)	2.1	3.3
Poland	(n)	-	-	-	-	-	-	-	-	-
Total small import(s)	-	-	-	0.1	0.1	-	-	-	-	-
Total	24.1	30.1	19.7	29.7	13.1	9.3	8.4	34.4	31.6	24.2

(s) Small imports of less than 50 tonnes recorded.

(n) Not known.

(a) Source gives only Cr content of imports. Converted to ferrochromium by multiplication by 1.46 based on assumption ferrochromium contains 68.5% Cr. (See Note (b), Table 151 above).

Cont.....

Table 152. (continued)

Source: Based on statistics recorded by Imperial Institute in The Mineral Industry of the British Empire and Foreign Countries, Statistical Summary, 1938-1944 (published 1948), His Majesty's Stationery Office, London, and by Imperial Institute in The Mineral Industry of the British Commonwealth and Foreign Countries, Statistical Summary, 1941-1947 (published 1949), His Majesty's Stationery Office, London, and by Mineral Resources Division, Colonial Geological Surveys in Statistical Summary of the Mineral Industry, 1945-1951 (published 1953), Her Majesty's Stationery Office, London.

Table 153.

WORLD FERROCHROMIUM IMPORTS
BY COUNTRY OF DESTINATION

1950-1959

Thousands of tonnes

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
United States	16.6(a)	21.4(a)	15.8(a)	27.3(a)	12.5(a)	25.3(a)	33.9(a)	40.3(a)	20.8(a)	84.7
United Kingdom	12.3	22.6	34.9(b)	17.3(b)	10.0(b)	28.3(b)	29.0(b)	31.8(b)	27.9(b)	34.1(b)
Austria	4.8	3.3	4.0	3.4	5.6	6.8	8.5	9.4	6.0	11.4
Australia	3.1	0.8	0.6	2.2	1.0	1.0	1.7	1.9	1.3	2.9
Sweden	2.1	2.5	1.6	1.3	1.4	1.9	8.2	5.5	2.4	6.4
Italy	2.0	0.9	1.4	2.4	3.3	3.5	6.6	6.0	6.2	8.5
Switzerland	1.3	8.2	3.1	1.4	-	-	-	-	-	-
Finland	0.4	0.6	0.6	0.7	0.4	0.6	0.6	0.9	0.8	1.1
Denmark	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.1	0.2	0.3
France	(s)	(s)	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Japan	(n)	(s)	-	(s)	0.5	0.1	0.1	0.1	0.1	-
Chile	-	-	0.1	0.1	0.1	(s)	(s)	0.1	(n)	(s)
India	(n)	(n)	(n)	(s)	0.1	0.2	0.1	0.3	0.1	0.3
Hungary	-	-	-	-	2.0	1.4	1.7	2.2	1.8	2.2
Belgium-Luxembourg	(n)	(n)	(n)	(n)	1.1	2.3	2.9	1.9	2.1	2.8
Netherlands	-	-	-	-	0.2	0.2	0.3	0.2	0.2	0.3
Brazil	-	-	-	-	0.1	0.1	(s)	0.1	0.2	0.3
Spain	-	-	-	-	-	0.4	0.3	0.2	0.4	1.0
Turkey	-	-	-	-	-	-	-	-	-	(s)

Cont.....

Table 153. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Mexico	-	-	-	-	-	-	-	-	-	(n)
Total small imports(s)	-	-	-	-	-	-	0.1	-	-	-
Total	42.8	60.5	62.4	56.3	38.5	72.3	94.4	101.0	70.5	156.3

(s) Small imports of less than 50 tonnes recorded.

(n) Not known.

(a) Source gives only Cr content of imports. Converted to ferrochromium by multiplication by 1.46 based on assumption ferrochromium contains 68.5% Cr (See Note (b), Table 151 above).

(b) Includes ferrochromium-silicon.

Source: Based on statistics recorded by Mineral Resources Division, Colonial Geological Surveys, in Statistical Summary of the Mineral Industry, 1950-1955 (published 1957), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Overseas Geological Surveys, in Statistical Summary of the Mineral Industry, 1954-1959 (published 1961) & 1959-1964 (published 1966), Her Majesty's Stationery Office, London.

Table 154.

WORLD FERROCHROMIUM IMPORTS

BY COUNTRY OF DESTINATION

1960-1969

Thousands of tonnes

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
United Kingdom(a)	51.0	46.1	28.0	38.9	52.6	66.4	55.1	51.4	63.8	74.3
United States	44.8	25.2	32.9	26.3	23.7	50.0	88.9	52.1	54.3	52.1
Italy	15.3	14.4	10.3	4.8	17.0	14.9	24.7	23.8(a)	31.5(a)	35.5(a)
Austria	14.2	11.8	9.7	12.3	15.3	15.5	16.3	14.7	17.9	24.0
Sweden	13.4	7.4	3.1	4.1	7.6	23.8	17.2	14.0	18.9	30.6
Australia	5.8	4.2	2.0	2.8	3.0	6.0	2.5	3.5	3.5	6.0
Belgium-Luxembourg(a)	4.3	4.2	4.7	4.5	7.1	6.4	6.7	6.8	7.7	8.9
Hungary	2.3	3.5	4.1	5.7	4.3	4.6	10.4	9.5	8.2	6.9
Finland	1.4	1.7	1.2	1.0	0.5	1.4	1.1	1.0	1.3	1.5
Spain	0.6	1.3	1.7	1.9	2.2	1.9	2.4	1.5	2.5	6.3
Brazil	0.6	0.9	0.9	1.0	0.5	0.2	1.2	0.8	1.6	1.5
Netherlands	0.5	0.3	0.4	0.4	0.8	2.2	2.6	1.1	2.3	2.3
Denmark	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.6	0.8
India	0.4	0.8	0.7	0.5	1.3	0.9	0.5	1.2	0.5	1.4
France	0.3	0.4	1.0	0.9	2.3	2.7	2.8	1.2	4.4	10.3
Mexico	0.2	0.7	0.6	0.9	0.6	0.5	0.3	0.4	0.5	0.8
Chile	(s)	0.1	0.1	0.2	0.3	0.3	(n)	0.3	0.2	0.6
Turkey	(s)	(s)	(s)	0.1	(s)	-	-	(s)	(s)	(n)
Japan	(s)	1.0	0.5	2.0	5.7	0.5	0.2	6.3	3.5	9.7
Canada	(n)	(n)	(n)	(n)	9.5	13.9	11.4	19.4	13.6	22.8

Cont.....

Table 154. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
South Africa	-	-	-	-	-	-	-	(s)	1.1	3.6
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	155.6	124.4	102.3	108.6	154.7	212.5	245.0	209.4	237.9	299.9

(s) Small imports of less than 50 tonnes recorded.

(n) Not known.

(a) Includes ferrochromium-silicon.

Source: Based on statistics recorded by Mineral Resources Section, Institute of Geological Sciences Overseas Division, in Statistical Summary of the Mineral Industry, 1960-1965 (published 1967), Her Majesty's Stationery Office, London, and by Mineral Resources Division, Institute of Geological Sciences, in Statistical Summary of the Mineral Industry, 1962-1967 (published 1969) & 1967-1971 (published 1973), Her Majesty's Stationery Office, London.

Table 155.
 WORLD FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF DESTINATION

1970-1979

Thousands of tonnes

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United Kingdom	78.6	57.8	37.6	51.1	67.9	64.9	108.4	77.2	51.0	77.4
West Germany	70.1	63.8	80.7	99.0	102.5	101.0	158.8	148.0	200.0	241.8
Italy	40.5	30.4	41.6	49.7	54.7	48.5	63.8	61.7	88.3	99.6
United States	37.5	77.3	128.2	148.7	154.4	293.0	234.3	218.0	297.1	220.0
Japan	25.5	5.1	14.4	31.4	38.8	29.1	106.7	109.6	174.5	273.4
Sweden	25.0	27.2	35.4	50.0	48.4	38.6	49.7	16.9	32.4	43.3
Canada	20.8	36.2	13.8	34.7	38.4	41.1	22.5	32.9	30.4	34.7
Austria	19.8	13.3	23.3	24.8	21.7	17.9	25.6	24.9	26.1	28.5
Belgium-Luxembourg	15.0	15.2	16.7	30.9	28.3	34.2	43.5	36.9	25.2	35.0
Australia	13.1	6.9	5.2	10.6	13.8	5.0	6.0	12.5	18.7	13.8
France	10.2	7.0	12.1	16.6	26.2	15.0	41.8	38.8	47.5	65.2
Hungary	8.3	6.1	5.0	5.3	7.2	-	5.0	6.1	6.6	8.9
Spain	3.6	3.9	5.0	8.3	10.4	12.0	17.7	15.8	27.4	35.2
Netherlands	2.6	3.0	3.3	3.7	3.2	6.6	7.3	12.3	10.8	3.4
South Africa	1.9	2.1	3.4	2.8	2.4	3.7	2.7	7.4	3.2	9.2
Brazil	1.7	2.0	2.2	4.0	8.5	2.0	0.9	5.0	1.9	0.5
Finland	1.5	1.8	0.9	1.0	1.5	1.1	0.9	1.2	2.6	1.9
Mexico	1.5	1.1	0.5	1.6	3.7	4.2	1.9	1.5	-	-
Denmark	0.7	1.1	1.0	0.8	1.0	1.0	1.0	1.4	1.2	1.4
Chile	0.6	0.6	0.7	0.1	0.5	-	-	0.6	0.8	-

Cont.

Table 155. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Taiwan	0.1	0.1	0.3	0.3	0.3	0.1	0.3	0.5	1.2	2.9
Colombia	0.1	(s)	(s)	0.1	-	-	-	-	-	-
India	(s)	0.2	(s)	(s)	(s)	(s)	0.1	0.2	0.1	(s)
South Korea	-	-	0.1	0.4	0.4	0.4	0.9	1.7	-	3.3
Morocco	-	-	(s)	(s)	(s)	(s)	(s)	(s)	(s)	(s)
Yugoslavia	-	-	-	-	0.1	0.1	0.1	0.1	0.2	0.1
Peru	-	-	-	-	-	-	0.2	0.2	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	1.2
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	378.7	362.2	431.4	575.9	634.3	719.5	900.1	831.4	1047.2	1200.7

(s) Small imports of less than 50 tonnes recorded.

(a) Include ferrochromium-silicon.

Source: Based on statistics recorded by Institute of Geological Sciences in World Mineral Statistics, 1970-74 (published 1978) & 1972-76 (published 1979) & 1974-78 (published 1980) & 1976-80 (in press), Her Majesty's Stationery Office, London.

Table 156.
 WORLD FERROCHROMIUM IMPORTS(a)
 BY COUNTRY OF DESTINATION

1980

Thousands of tonnes

Country	1980
West Germany	312.9
Japan	280.4
United States	274.2
France	114.2
Italy	91.4
United Kingdom	43.5
Canada	41.4
Spain	32.5
Sweden	31.4
Belgium-Luxembourg	28.9
Austria	24.6
Australia	16.0
Netherlands	9.5
Hungary	7.7
South Africa	7.0
Finland	4.7
South Korea	2.6
Zimbabwe	1.8
Denmark	1.2

Cont.....

Table 156. (continued)

Country	1980
Taiwan	0.6
Brazil	0.5
Yugoslavia	0.1
Morocco	0.1
Total	1327.2

(a) Include ferrochromium-silicon.

Source: Based on statistics recorded by Institute of Geological Sciences, London, in World Mineral Statistics, 1977-1981 (in press).

Table 157.
 WORLD FERROCHROMIUM IMPORTS
 BY COUNTRY OF DESTINATION

1930-1939

Percentage of World Total

Country	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Soviet Union	33	57	57	49	30	17	-	-	-	-
Switzerland	25	22	17	8	9	10	9	10	13	14
France	21	9	16	4	1	1	-	1	-	-
Sweden	7	5	3	3	9	9	7	6	7	11
Italy	7	3	3	3	3	(n)	3	4	5	2(a)
Poland	3	3	1	2	2	1	1	-	-	(n)
United States	3	1	3	1	1	1	-	1	1	1
United Kingdom	-	-	-	31	45	61	71	68	60	71
Finland	-	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	1	-	-	-	-	-
Austria	-	-	-	-	-	-	8	9	13	-
Total small imports(s)	-	-	-	-	-	-	-	-	1	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(a) January-July only.

Source: Based on data given in Table 151 above.

Table 158.

WORLD FERROCHROMIUM IMPORTS
BY COUNTRY OF DESTINATION

1940-1949

Percentage of World Total

Country	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
United Kingdom	83	91	87	97	88	32	44	61	51	42
Switzerland	12	3	1	1	1	1	27	8	14	5
Sweden	6	1	1	-	-	-	8	3	7	10
Finland	-	-	1	-	-	1	2	-	1	2
Chile	-	-	1	-	-	-	-	-	-	(n)
Italy	(n)	5	8	-	(n)	-	1	-	2	7
United States	-	1	3	1	8	60	15	24	19	21
France	-	-	-	1	3	5	1	2	(n)	(n)
Austria	(n)	-	-	-	-	(n)	(n)	(n)	7	14
Poland	(n)	-	-	-	-	-	-	-	-	-
Total small imports(s)	-	-	-	-	1	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known

Source: Based on data given in Table 152 above.

Table 159.
 WORLD FERROCHROMIUM IMPORTS
 BY COUNTRY OF DESTINATION
 1950-1959

Percentage of World Total

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
United States	39	35	25	48	32	35	36	40	30	54
United Kingdom	29	37	56 (b)	31 (b)	26 (b)	39 (b)	31 (b)	32 (b)	40 (b)	22 (b)
Austria	11	5	6	6	15	9	9	9	8	7
Australia	7	1	1	4	3	1	2	2	2	2
Sweden	5	4	3	2	4	3	9	5	3	4
Italy	5	1	2	4	9	5	7	6	9	5
Switzerland	3	14	5	2	-	-	-	-	-	-
Finland	1	1	1	1	1	1	1	1	1	1
Denmark	-	-	-	-	1	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Japan	(n)	-	-	-	1	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	(n)	-
India	(n)	(n)	(n)	-	-	-	-	-	-	-
Hungary	-	-	-	-	5	2	2	2	3	1
Belgium-Luxembourg	(n)	(n)	(n)	(n)	3	3	3	2	3	2
Netherlands	-	-	-	-	1	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	1	-	-	1	1
Turkey	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 159. (continued)

Country	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Mexico	-	-	-	-	-	-	-	-	-	(n)
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(b) Includes ferrochromium-silicon.

Source: Based on data given in Table 153 above.

Table 160.
 WORLD FERROCHROMIUM IMPORTS
 BY COUNTRY OF DESTINATION

1960-1969

Percentage of World Total

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
United Kingdom(a)	33	37	27	36	34	31	23	25	27	25
United States	29	20	32	24	15	24	36	25	23	17
Italy	10	12	10	4	11	7	10	11(a)	13(a)	12(a)
Austria	9	9	9	11	10	7	7	7	8	8
Sweden	9	6	3	4	5	11	7	7	8	10
Australia	4	3	2	3	2	3	1	2	1	2
Belgium- (a) Luxembourg	3	3	5	4	5	3	3	3	3	3
Hungary	1	3	4	5	3	2	4	5	3	2
Finland	1	1	1	1	-	1	-	-	1	1
Spain	-	1	2	2	1	1	1	1	1	2
Brazil	-	1	1	1	-	-	-	-	1	1
Netherlands	-	-	-	-	1	1	1	1	1	1
Denmark	-	-	-	-	-	-	-	-	-	-
India	-	1	1	-	1	-	-	1	-	-
France	-	1	1	1	1	1	1	1	2	3
Mexico	-	1	1	1	-	-	-	-	-	-
Chile	-	-	-	-	-	-	(n)	-	-	-
Turkey	-	-	-	-	-	-	-	-	-	(n)
Japan	-	1	-	2	4	-	-	3	1	3
Canada	(n)	(n)	(n)	(n)	6	7	5	9	6	8

Cont.....

Table 160. (continued)

Country	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
South Africa	-	-	-	-	-	-	-	-	-	1
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(n) Not known.

(a) Includes ferrochromium-silicon.

Source: Based on data given in Table 154 above.

Table 161.
 WORLD FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF DESTINATION
 1970-1979
 Percentage of World Total

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United Kingdom	21	16	9	9	11	9	12	9	5	6
West Germany	19	18	19	17	16	14	18	18	19	20
Italy	11	8	10	9	9	7	7	7	8	8
United States	10	21	30	26	24	41	26	26	28	18
Japan	7	1	3	5	6	4	12	13	17	23
Sweden	7	8	8	9	8	5	6	2	3	4
Canada	5	10	3	6	6	6	2	4	3	3
Austria	5	4	5	4	3	2	3	3	2	2
Belgium-Luxembourg	4	4	4	5	4	5	5	4	2	3
Australia	3	2	1	2	2	1	1	2	2	1
France	3	2	3	3	4	2	5	5	5	5
Hungary	2	2	1	1	1	-	1	1	1	1
Spain	1	1	1	1	2	2	2	2	3	3
Netherlands	1	1	1	1	1	1	1	1	1	-
South Africa	1	1	1	-	-	1	-	1	-	1
Brazil	-	1	1	1	1	-	-	1	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	1	1	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-

Cont.....

Table 161. (continued)

Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Colombia	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
South Korea	-	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-
Yugoslavia	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-
Total small imports(s)	-	-	-	-	-	-	-	-	-	-
Total	100	100	100	100	100	100	100	100	100	100

(a) Include ferrochromium-silicon.

Source: Based on data given in Table 155 above.

Table 162.
 WORLD FERROCHROMIUM IMPORTS(a)
 BY COUNTRY OF DESTINATION

1980

Percentage of World Total

Country	1980
West Germany	24
Japan	21
United States	21
France	9
Italy	7
United Kingdom	3
Canada	3
Spain	2
Sweden	2
Belgium-Luxembourg	2
Austria	2
Australia	1
Netherlands	1
Hungary	1
South Africa	1
Finland	-
South Korea	-
Zimbabwe	-
Denmark	-

Cont.....

Table 162. (continued)

Country	1980
Taiwan	-
Brazil	-
Yugoslavia	-
Morocco	-
Total	100

(a) Include ferrochromium-silicon.

Source: Based on data given in Table 156 above.

Table 163.
 UNITED STATES FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	49.0	51.0	58.5	90.1	78.7
Japan	16.1	12.2	7.6	77.1	35.2
Zimbabwe	14.0	48.5	31.0	74.5	43.0
Sweden	9.8	6.5	6.8	2.6	2.7
Norway	8.7	3.9	4.3	3.1	3.6
Finland	6.2	12.0	2.1	5.5	-
Turkey	6.2	1.5	2.5	2.1	1.0
Yugoslavia	5.4	3.0	19.3	11.2	19.9
West Germany	4.8	2.3	5.8	5.9	4.9
Brazil	3.8	6.5	9.6	14.6	25.3
Italy	1.5	-	-	-	1.0
Belgium- Luxembourg	1.4	-	-	-	-
Netherlands	0.8	-	-	-	-
France	0.4	-	-	0.9	3.1
Canada	(s)	(s)	(s)	(s)	(s)
Spain	-	1.3	-	-	-
Taiwan	-	-	0.1	0.3	-
Australia	-	-	(s)	-	-
India	-	-	-	1.5	0.4
South Korea	-	-	-	(s)	-

Cont.....

Table 163. (continued)

Country	1972	1973	1974	1975	1976
Mozambique	-	-	-	-	1.3
United Kingdom	-	-	-	-	(s)
Total	128.2	148.7	147.6	289.2	220.1

(a) Imports for consumption.

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Minerals Yearbook, 1973-1977 (published annually), U.S. Bureau of Mines.

Table 164.
 UNITED STATES FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	38	34	40	31	36
Japan	13	8	5	27	16
Zimbabwe	11	33	21	26	20
Sweden	8	4	5	1	1
Norway	7	3	3	1	2
Finland	5	8	1	2	-
Turkey	5	1	2	1	-
Yugoslavia	4	2	13	4	9
West Germany	4	2	4	2	2
Brazil	3	4	7	5	11
Italy	1	-	-	-	-
Belgium- Luxembourg	1	-	-	-	-
Netherlands	1	-	-	-	-
France	-	-	-	-	1
Canada	-	-	-	-	-
Spain	-	1	-	-	-
Taiwan	-	-	-	-	-
Australia	-	-	-	-	-
India	-	-	-	1	-
South Korea	-	-	-	-	-

Cont.....

Table 164. (continued)

Country	1972	1973	1974	1975	1976
Mozambique	-	-	-	-	1
United Kingdom	-	-	-	-	-
Total	100	100	100	100	100

(a) Imports for consumption.

Source: Based on data given in Table 163 above.

Table 165.

WEST GERMAN FERROCHROMIUM IMPORTS(a)
BY COUNTRY OF ORIGIN
1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	46.3	50.8	51.2	57.2	105.9
United States	4.8	6.9	2.5	2.4	1.3
Yugoslavia	3.5	4.2	2.4	0.6	0.2
Soviet Union	2.9	2.5	5.0	3.3	2.4
Italy	2.9	2.2	2.4	2.9	3.1
Sweden	2.6	5.2	4.4	3.7	6.4
Czechoslovakia	2.0	1.6	1.6	1.0	1.3
Turkey	2.0	3.6	2.0	2.1	1.0
France	1.6	6.1	5.9	4.6	9.6
India	1.0	0.2	-	0.9	-
Mozambique	1.0	-	-	-	-
Spain	0.7	4.8	3.3	3.2	2.3
Hungary	0.4	-	-	-	-
Belgium- Luxembourg	0.1	1.6	0.5	0.2	0.7
United Kingdom	0.1	0.2	1.4	0.9	0.4
Netherlands	0.1	0.1	0.1	0.1	0.1
Switzerland	(s)	-	-	-	-
Norway	-	0.5	-	-	-
Brazil	-	0.3	4.4	1.8	8.6

Cont.....

Table 165. (continued)

Country	1972	1973	1974	1975	1976
Japan	-	-	8.3	10.8	2.1
Other	8.7	8.5	7.1	5.2	13.4
Total	80.7	99.3	102.5	100.9	158.8

(a) Includes both ferrochromium and ferrochromium-silicon.

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Statistisches Bundesamt, West Germany, December 1977.

Table 166.
 WEST GERMAN FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	57	51	50	57	67
United States	6	7	2	2	1
Yugoslavia	4	4	2	1	-
Soviet Union	4	3	5	3	2
Italy	4	2	2	3	2
Sweden	3	5	4	4	4
Czechoslovakia	2	2	2	1	1
Turkey	2	4	2	2	1
France	2	6	6	5	6
India	1	-	-	1	-
Mozambique	1	-	-	-	-
Spain	1	5	3	3	1
Hungary	-	-	-	-	-
Belgium- Luxembourg	-	2	-	-	-
United Kingdom	-	-	1	1	-
Netherlands	-	-	-	-	-
Switzerland	-	-	-	-	-
Norway	-	1	-	-	-
Brazil	-	-	4	2	5

Cont.....

Table 166. (continued)

Country	1972	1973	1974	1975	1976
Japan	-	-	8	11	1
Other	11	9	7	5	8
Total	100	100	100	100	100

(a) Includes both ferrochromium and ferrochromium-silicon.

Source: Based on data given in Table 165 above.

Table 167.
 ITALIAN FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
France	12.1	8.9	7.7	5.0	5.5
West Germany	7.4	6.2	4.2	9.7	40.3
Finland	6.6	9.9	14.7	8.7	3.8
South Africa	5.8	15.4	20.1	18.3	5.7
Turkey	3.5	1.7	0.7	1.0	-
Yugoslavia	2.2	4.4	4.4	1.8	1.9
Czechoslovakia	1.7	1.0	0.7	0.8	0.5
Soviet Union	1.1	1.0	0.9	1.4	1.6
Norway	0.6	-	0.1	(s)	0.4
United Kingdom	0.1	(s)	(s)	0.2	0.4
Netherlands	0.1	0.1	0.2	0.1	(s)
Hungary	0.1	-	-	(s)	-
East Germany	0.1	-	-	-	-
United States	0.1	0.3	(s)	0.2	1.0
Spain	(s)	-	0.4	0.1	0.1
Sweden	(s)	(s)	0.1	0.1	0.4
Belgium- Luxembourg	-	0.2	0.3	-	(s)
Angola	-	0.2	-	-	-
Ecuador	-	0.1	-	-	-
Tunisia	-	0.1	-	-	-
Poland	-	(s)	-	-	-
Switzerland	-	-	0.1	-	(s)

Cont.....

Table 167. (continued)

Country	1972	1973	1974	1975	1976
Japan	-	-	0.1	1.0	-
Central African Republic	-	-	(s)	-	-
Brazil	-	-	-	-	1.0
Bulgaria	-	-	-	-	0.1
Total	41.6	49.7	54.7	48.6	62.5

(a) Includes imports of ferrochromium-silicon.

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication, Istituto Centrale di Statistica, Italy; January 1978.

Table 168.
 ITALIAN FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
France	29	18	14	10	9
West Germany	18	12	8	20	64
Finland	16	20	27	18	6
South Africa	14	31	37	38	9
Turkey	8	3	1	2	-
Yugoslavia	5	9	8	4	3
Czechoslovakia	4	2	1	2	1
Soviet Union	3	2	2	3	3
Norway	1	-	-	-	1
United Kingdom	-	-	-	-	1
Netherlands	-	-	-	-	-
Hungary	-	-	-	-	-
East Germany	-	-	-	-	-
United States	-	1	-	-	2
Spain	-	-	1	-	-
Sweden	-	-	-	-	1
Belgium- Luxembourg	-	-	1	-	-
Angola	-	-	-	-	-
Ecuador	-	-	-	-	-
Tunisia	-	-	-	-	-
Poland	-	-	-	-	-
Switzerland	-	-	-	-	-

Cont.....

Table 168. (continued)

Country	1972	1973	1974	1975	1976
Japan	-	-	-	2	-
Central African Republic	-	-	-	-	-
Brazil	-	-	-	-	2
Bulgaria.	-	-	-	-	-
Total	100	100	100	100	100

(a) Includes imports of ferrochromium-silicon.

Source: Based on data given in Table 167 above.

Table 169.

SWEDISH FERROCHROMIUM IMPORTS(a)

BY COUNTRY OF ORIGIN

1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	8.6	17.0	11.0	12.8	21.4
Norway	6.5	7.3	7.1	5.3	4.6
Soviet Union	5.0	4.4	5.5	2.8	2.6
Finland	4.0	9.7	18.9	11.6	12.3
West Germany	2.7	2.1	1.1	1.3	0.3
United States	2.6	2.2	0.3	1.2	0.6
India	2.0	-	-	-	-
Italy	1.9	2.3	1.8	2.5	6.3
Yugoslavia	0.7	0.7	-	-	(s)
Spain	0.5	-	2.2	0.3	-
Czechoslovakia	0.3	0.4	-	-	-
Belgium- Luxembourg	0.2	0.3	0.2	0.1	-
France	0.1	0.2	0.3	0.4	0.2
Japan	0.1	2.6	0.2	0.5	0.8
United Kingdom	0.1	0.3	-	0.3	(s)
Hungary	0.1	-	-	-	-
East Germany	(s)	-	-	-	-
Turkey	-	0.5	-	0.1	-
Brazil	-	-	-	-	0.5
Total	35.4	49.9	48.4	38.6	49.7

Cont.....

Table 169. (continued)

- (a) Includes both ferrochromium and ferrochromium-silicon.
- (s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
National Central Bureau of Statistics, Sweden,
January 1978.

Table 170.
 SWEDISH FERROCHROMIUM IMPORTS (a)
 BY COUNTRY OF ORIGIN

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	24	34	23	33	43
Norway	18	15	15	14	9
Soviet Union	14	9	11	7	5
Finland	11	19	39	30	25
West Germany	8	4	2	3	1
United States	7	4	1	3	1
India	6	-	-	-	-
Italy	5	5	4	6	13
Yugoslavia	2	1	-	-	-
Spain	1	-	5	1	-
Czechoslovakia	1	1	-	-	-
Belgium- Luxembourg	1	1	-	-	-
France	-	-	1	1	-
Japan	-	5	-	1	2
United Kingdom	-	1	-	1	-
Hungary	-	-	-	-	-
East Germany	-	-	-	-	-
Turkey	-	1	-	-	-
Brazil	-	-	-	-	1
Total	100	100	100	100	100

Cont.....

Table 170. (continued)

(a) Includes both ferrochromium and ferrochromium-silicon.

Source: Based on data given in Table 169 above.

Table 171.
 CANADIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	10.4	22.8	27.7	20.2	10.1
United States	2.9	6.7	5.1	4.8	6.9
Japan	0.2	-	0.1	2.7	0.4
Norway	0.2	0.4	0.1	(s)	-
Sweden	0.2	0.2	0.6	0.4	0.6
West Germany	(s)	(s)	-	(s)	-
Brazil	-	2.6	4.4	13.0	4.0
Yugoslavia	-	2.0	-	-	-
Greece	-	-	0.3	-	-
United Kingdom	-	-	0.2	-	-
Switzerland	-	-	(s)	-	-
Total	13.8	34.7	38.4	41.1	21.8

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 Statistics Canada, Ottawa, Canada, January 1978.

Table 172.
 CANADIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	75	66	72	49	46
United States	21	19	13	12	32
Japan	1	-	-	7	2
Norway	1	1	-	-	-
Sweden	1	1	2	1	3
West Germany	-	-	-	-	-
Brazil	-	7	11	32	18
Yugoslavia	-	6	-	-	-
Greece	-	-	1	-	-
United Kingdom	-	-	1	-	-
Switzerland	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 171 above.

Table 173.
 JAPANESE FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	14.1	27.7	33.8	29.1	90.0
Yugoslavia	0.3	-	-	-	-
United States	(s)	3.7	5.0	-	-
West Germany	-	(s)	(s)	-	-
Taiwan	-	-	(s)	-	-
Brazil	-	-	-	-	3.0
Total	14.4	31.4	38.8	29.1	93.0

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 Bureau of Statistics, Japan, December 1977.

Table 174.
 JAPANESE FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	98	88	87	100	97
Yugoslavia	2	-	-	-	-
United States	-	12	13	-	-
West Germany	-	-	-	-	-
Taiwan	-	-	-	-	-
Brazil	-	-	-	-	3
Total	100	100	100	100	100

Source: Based on data given in Table 173 above.

Table 175.
 AUSTRIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
Soviet Union	5.0	3.8	3.8	2.9	4.6
Italy	4.7	3.1	3.9	2.9	1.4
Czechoslovakia	4.2	4.0	1.6	1.8	2.0
South Africa	2.6	5.8	5.8	5.1	9.8
Yugoslavia	2.4	2.3	2.0	1.9	2.2
Sweden	1.8	0.7	1.0	0.6	1.9
West Germany	1.6	2.7	1.3	0.6	1.3
Netherlands	0.4	0.4	-	(s)	0.1
Norway	0.3	0.3	0.4	0.2	0.2
France	0.2	0.1	0.2	0.3	0.2
Hungary	0.1	0.2	-	(s)	-
Switzerland	(s)	0.2	0.3	0.2	0.4
Brazil	-	0.6	1.2	0.9	-
United States	-	0.3	-	-	-
Mozambique	-	0.2	0.1	-	-
Finland	-	(s)	-	-	-
Belgium- Luxembourg	-	(s)	(s)	-	-
Japan	-	-	0.1	0.3	0.5
Canada	-	-	(s)	(s)	-
United Kingdom	-	-	(s)	(s)	-

Cont.....

Table 175. (continued)

Country	1972	1973	1974	1975	1976
New Caledonia	-	-	-	0.1	-
Greece	-	-	-	-	(s)
Total	23.3	24.8	21.7	17.9	25.6

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
 "Österreichisches Statistisches Zentralamt, Austria,
 December 1977.

Table 176.
 AUSTRIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
Soviet Union	21	15	18	16	18
Italy	20	13	18	16	5
Czechoslovakia	18	16	7	10	8
South Africa	11	23	27	28	38
Yugoslavia	10	9	9	11	9
Sweden	8	3	5	3	7
West Germany	7	11	6	3	5
Netherlands	2	2	-	-	-
Norway	1	1	2	1	1
France	1	-	1	2	1
Hungary	-	1	-	-	-
Switzerland	-	1	1	1	2
Brazil	-	2	6	5	-
United States	-	1	-	-	-
Mozambique	-	1	-	-	-
Finland	-	-	-	-	-
Belgium- Luxembourg	-	-	-	-	-
Japan	-	-	-	2	2
Canada	-	-	-	-	-

Cont.....

Table 176. (continued)

Country	1972	1973	1974	1975	1976
United Kingdom	-	-	-	-	-
New Caledonia	-	-	-	1	-
Greece	-	-	-	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 175 above.

Table 177.
 BELGIUM-LUXEMBOURG FERROCHROMIUM IMPORTS(a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Thousands of tonnes

Country	1972	1973	1974	1975	1976
West Germany	8.1	6.8	9.8	4.7	4.9
Soviet Union	3.5	4.9	3.8	9.4	6.3
Spain	1.5	0.2	0.6	1.1	2.6
Mozambique	0.5	3.2	3.9	3.4	1.5
Czechoslovakia	0.4	0.2	0.7	0.5	1.1
Yugoslavia	0.4	2.0	(s)	-	0.5
Norway	0.4	0.6	1.2	0.4	0.4
United States	0.3	(s)	0.4	1.5	0.4
France	0.2	0.7	0.4	0.8	1.4
South Africa	0.2	4.2	4.0	6.7	12.0
Turkey	0.1	0.7	0.9	0.2	0.4
Netherlands	0.1	0.1	0.2	0.1	0.1
Hungary	(s)	0.2	-	-	-
Switzerland	(s)	-	(s)	-	0.3
Finland	(s)	-	-	0.1	6.8
Sweden	(s)	(s)	1.4	1.9	2.7
East Germany	(s)	(s)	(s)	0.1	-
United Kingdom	(s)	0.1	0.1	0.1	(s)
Italy	-	(s)	0.8	2.0	0.9
Malagasy	-	(s)	-	-	-
Greece	-	(s)	-	-	-
Japan	-	-	(s)	1.2	0.9

Cont.....

Table 177. (continued)

Country	1972	1973	1974	1975	1976
India	-	-	(s)	(s)	-
Poland	-	-	(s)	-	-
Brazil	-	-	-	-	0.3
Total	15.7	24.2	28.3	34.2	43.5

(a) Includes imports of ferrochromium-silicon.

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Institut National de Statistique, Belgium, December 1977.

Table 178.

BELGIUM-LUXEMBOURG FERROCHROMIUM IMPORTS(a)

BY COUNTRY OF ORIGIN

1972-1976

Percentage of Total

Country	1972	1973	1974	1975	1976
West Germany	52	28	35	14	11
Soviet Union	22	20	13	27	14
Spain	10	1	2	3	6
Mozambique	3	13	14	10	3
Czechoslovakia	3	1	2	1	3
Yugoslavia	3	8	-	-	1
Norway	3	2	4	1	1
United States	2	-	1	4	1
France	1	3	1	2	3
South Africa	1	17	14	20	28
Turkey	1	3	3	1	1
Netherlands	1	-	1	-	-
Hungary	-	1	-	-	-
Switzerland	-	-	-	-	1
Finland	-	-	-	-	16
Sweden	-	-	5	6	6
East Germany	-	-	-	-	-
United Kingdom	-	-	-	-	-
Italy	-	-	3	6	2
Malagasy	-	-	-	-	-
Greece	-	-	-	-	-
Japan	-	-	-	4	2

Cont.....

Table 178. (continued)

Country	1972	1973	1974	1975	1976
India	-	-	-	-	-
Poland	-	-	-	-	-
Brazil	-	-	-	-	1
Total	100	100	100	100	100

(a) Includes imports of ferrochromium-silicon.

Source: Based on data given in Table 177 above.

Table 179.
FRENCH FERROCHROMIUM IMPORTS (a)

BY COUNTRY OF ORIGIN

1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
West Germany	5.0	7.3	8.4	2.7	4.6
Norway	2.9	3.5	3.5	1.8	1.2
Italy	2.0	2.0	1.6	1.5	3.1
Yugoslavia	1.0	-	0.7	(s)	-
Japan	0.8	-	0.1	(s)	-
United States	0.5	0.5	0.2	0.3	0.1
Czechoslovakia	0.3	-	0.2	0.1	-
South Africa	0.2	1.9	5.0	6.2	19.5
Mozambique	0.1	-	-	-	-
United Kingdom	(s)	-	-	-	-
Turkey	-	1.6	1.8	0.3	-
Sweden	-	0.3	3.1	1.3	1.9
Belgium- Luxembourg	-	0.2	0.5	0.1	0.2
Soviet Union	-	-	0.5	0.2	0.3
Finland	-	-	0.3	0.1	7.9
Spain	-	-	0.3	0.3	0.4
Austria	-	-	-	0.1	-
Brazil	-	-	-	-	2.5
Other	0.1	0.3	(s)	0.1	0.1
Total	13.0	17.5	26.2	15.0	41.8

Cont.....

Table 179. (continued)

- (a) Includes imports of ferrochromium-silicon.
- (s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Personal Communication,
Institut National de la Statistique et des Études
Économiques, France, December 1977.

Table 180.
 FRENCH FERROCHROMIUM IMPORTS(a)
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
West Germany	38	42	32	18	11
Norway	22	20	13	12	3
Italy	15	11	6	10	7
Yugoslavia	8	-	3	-	-
Japan	6	-	-	-	-
United States	4	3	1	2	-
Czechoslovakia	2	-	1	1	-
South Africa	2	11	19	41	47
Mozambique	1	-	-	-	-
United Kingdom	-	-	-	-	-
Turkey	-	9	7	2	-
Sweden	-	2	12	9	5
Belgium- Luxembourg	-	1	2	1	-
Soviet Union	-	-	2	1	1
Finland	-	-	1	1	19
Spain	-	-	1	2	1
Austria	-	-	-	1	-
Brazil	-	-	-	-	6
Other	1	2	-	1	-
Total	100	100	100	100	100

Cont.....

Table 180. (continued)

(a) Includes imports of ferrochromium-silicon.

Source: Based on data given in Table 179 above.

Table 181.
 AUSTRALIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976

Thousands of tonnes

Country	1972	1973	1974	1975	1976
South Africa	2.8	6.8	5.2	1.7	4.6
Japan	1.9	0.8	0.6	1.6	1.2
Sweden	0.4	0.6	0.6	1.6	0.2
Spain	(s)	0.1	0.1	(s)	-
United Kingdom	(s)	-	(s)	-	-
United States	(s)	(s)	1.3	(s)	-
Yugoslavia	-	1.3	1.3	-	-
India	-	0.9	4.3	-	-
Norway	-	0.1	0.3	(s)	-
Other	(s)	(s)	0.1	(s)	(s)
Total	5.2	10.6	13.8	5.0	6.0

(s) Small ferrochromium imports of less than 50 tonnes recorded.

Source: Based on statistics recorded in Australian Mineral Industry Annual Review, 1975-1979, Bureau of Mineral Resources, Australia.

Table 182.
 AUSTRALIAN FERROCHROMIUM IMPORTS
 BY COUNTRY OF ORIGIN
 1972-1976
 Percentage of Total

Country	1972	1973	1974	1975	1976
South Africa	54	64	38	34	77
Japan	37	8	4	32	20
Sweden	8	6	4	32	3
Spain	-	1	1	-	-
United Kingdom	-	-	-	-	-
United States	-	-	9	-	-
Yugoslavia	-	12	9	-	-
India	-	8	31	-	-
Norway	-	1	2	-	-
Other	-	-	1	-	-
Total	100	100	100	100	100

Source: Based on data given in Table 181 above.

Table 183.

FERROCHROMIUM IMPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF DESTINATION AND ORIGIN

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL IMPORTS(b)

Thousands of tonnes

COUNTRY OF DESTINATION	COUNTRY OF ORIGIN															Total
	South Africa	Soviet Union	West Germany	Finland	Sweden	Japan	Norway	Yugoslavia	Italy	United States	France	Turkey	Brazil	Spain	Other	
United States	52.8 (53.9)	-- (13.2)	4.3 (10.9)	6.8 (10.2)	7.7 (9.6)	12.0 (9.1)	5.6 (8.5)	9.2 (7.5)	0.5 (3.2)	- -	0.1 (3.0)	3.4 (3.0)	6.6 (2.5)	0.4 (2.2)	32.1	141.5
West Germany	49.4 (35.9)	3.5 (8.8)	- -	- (6.8)	4.1 (6.4)	2.8 (6.1)	0.2 (5.7)	3.4 (5.0)	2.5 (2.1)	4.7 (2.1)	4.5 (2.0)	2.5 (2.0)	1.6 (1.7)	2.9 (1.5)	12.1	94.2
Italy	13.8 (18.5)	1.0 (4.5)	5.9 (3.7)	10.4 (3.5)	- (3.3)	- (3.1)	0.2 (2.9)	3.7 (2.6)	- -	0.1 (1.1)	9.6 (1.0)	2.0 (1.0)	- (0.9)	0.1 (0.8)	1.9	48.7
Sweden	12.2 (17.0)	5.0 (4.2)	2.0 (3.4)	10.9 (3.2)	- -	1.0 (2.9)	7.0 (2.7)	0.5 (2.4)	2.0 (1.0)	1.7 (1.0)	0.2 (0.9)	0.2 (0.9)	- (0.8)	0.9 (0.7)	1.0	44.6

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Table 183. (continued)

COUNTRY OF DESTIN- ATION	COUNTRY OF ORIGIN															Total
	South Africa	Soviet Union	West Germany	Finland	Sweden	Japan	Norway	Yugoslavia	Italy	United States	France	Turkey	Brazil	Spain	Other	
Canada	20.3 (11.0)	- (2.7)	- (2.2)	- (2.1)	0.3 (2.0)	0.1 (1.9)	0.2 (1.7)	0.7 (1.5)	- (0.7)	4.9 (0.6)	- (0.6)	- (0.6)	2.3 (0.5)	- (0.5)	0.2	29.0
Japan	25.2 (10.7)	- (2.6)	- (2.2)	- (2.0)	- (1.9)	- (1.5)	- (1.7)	0.1 (1.5)	- (0.6)	2.9 (0.6)	- (0.6)	- (0.6)	- (0.5)	- (0.4)	-	28.2
Austria	4.7 (8.9)	4.2 (2.2)	1.9 (1.8)	- (1.7)	1.2 (1.6)	- (1.5)	0.3 (1.4)	2.2 (1.2)	3.9 (0.5)	0.1 (0.5)	0.2 (0.5)	- (0.5)	0.6 (0.4)	- (0.4)	4.0	23.3
Belgium- Luxembourg	2.8 (8.6)	4.1 (2.1)	8.2 (1.7)	- (1.6)	0.5 (1.5)	- (1.5)	0.7 (1.4)	0.8 (1.2)	0.3 (0.5)	0.2 (0.5)	0.4 (0.5)	0.6 (0.5)	- (0.4)	0.8 (0.4)	3.3	22.7
France	2.4 (7.2)	0.2 (1.8)	6.9 (1.5)	0.1 (1.4)	1.1 (1.3)	0.3 (1.2)	3.3 (1.1)	0.6 (1.0)	1.9 (0.4)	0.4 (0.4)	- (0.4)	1.1 (0.4)	- (0.3)	0.1 (0.3)	0.5	18.9
Australia	4.9 (3.8)	- (0.9)	- (0.8)	- (0.7)	0.5 (0.7)	1.1 (0.6)	0.1 (0.6)	0.9 (0.5)	- (0.2)	0.4 (0.2)	- (0.2)	- (0.2)	- (0.2)	0.1 (0.2)	1.9	9.9

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Table 183. (continued)

(a) The United Kingdom was also a substantial importer of ferrochromium during the period, but is not included in the table as detailed information on the origin of its imports is not known. However, some information on the origin of its imports is given in Table 149 above showing the destination of exports for selected countries.

(b) Null imports shown in brackets, and calculated as follows:

$$\text{Null imports} = \text{Total imports of importing country} \times \frac{\text{Total exports of exporting country}}{\text{Total world exports}}$$

Source: Data on actual imports based on statistics shown in Tables 163, 165, 167, 169, 171, 173, 175, 177, 179, and 181 above, and calculations of null imports based on statistics shown in Tables 163, 165, 167, 169, 171, 173, 175, 177, 179, and 181 above and in Table 125 above.

Table 184.

FERROCHROMIUM IMPORTS OF SELECTED COUNTRIES(a)

BY COUNTRY OF DESTINATION AND ORIGIN

AVERAGE FOR YEARS 1972-1974

ACTUAL AND NULL IMPORTS(b)

Percentage of Total

COUNTRY OF DESTIN- ATION	COUNTRY OF ORIGIN															Total
	South Africa	Soviet Union	West Germany	Finland	Sweden	Japan	Norway	Yugoslavia	Italy	United States	France	Turkey	Brazil	Spain	Other	
United States	37.3 (38.1)	- (9.3)	3.0 (7.7)	4.8 (7.2)	5.4 (6.8)	8.5 (6.5)	4.0 (6.0)	6.5 (5.3)	0.4 (2.3)	- (2.2)	0.1 (2.1)	2.4 (2.1)	4.7 (1.8)	0.3 (1.6)	22.7	100.0
West Germany	52.4 (38.1)	3.7 (9.3)	- (7.7)	- (7.2)	4.4 (6.8)	3.0 (6.5)	0.2 (6.0)	3.6 (5.3)	2.7 (2.3)	5.0 (2.2)	4.8 (2.1)	2.7 (2.1)	1.7 (1.8)	3.1 (1.6)	12.8	100.0
Italy	28.3 (38.1)	2.1 (9.3)	12.1 (7.7)	21.4 (7.2)	- (6.8)	- (6.5)	0.4 (6.0)	7.6 (5.3)	- (2.3)	0.2 (2.2)	19.7 (2.1)	4.1 (2.1)	- (1.8)	0.2 (1.6)	3.9	100.0
Sweden	27.4 (38.1)	11.2 (9.3)	4.5 (7.7)	24.4 (7.2)	- (6.8)	2.2 (6.5)	15.7 (6.0)	1.1 (5.3)	4.5 (2.3)	3.8 (2.2)	0.4 (2.1)	0.4 (2.1)	- (1.8)	2.0 (1.6)	2.2	100.0

Cont.....

Table 184. (continued)

COUNTRY OF DESTIN- ATION	COUNTRY OF ORIGIN															Total
	South Africa	Soviet Union	West Germany	Finland	Sweden	Japan	Norway	Yugoslavia	Italy	United States	France	Turkey	Brazil	Spain	Other	
Canada	70.0 (38.1)	- (9.3)	- (7.7)	- (7.2)	1.0 (6.8)	0.3 (6.5)	0.7 (6.0)	2.4 (5.3)	- (2.3)	16.9 (2.2)	- (2.1)	- (2.1)	7.9 (1.8)	- (1.6)	0.7	100.0
Japan	89.4 (38.1)	- (9.3)	- (7.7)	- (7.2)	- (6.8)	- (6.5)	- (6.0)	0.4 (5.3)	- (2.3)	10.3 (2.2)	- (2.1)	- (2.1)	- (1.8)	- (1.6)	-	100.0
Austria	20.2 (38.1)	18.0 (9.3)	8.2 (7.7)	- (7.2)	5.2 (6.8)	- (6.5)	1.3 (6.0)	9.4 (5.3)	16.7 (2.3)	0.4 (2.2)	0.9 (2.1)	- (2.1)	2.6 (1.8)	- (1.6)	17.2	100.0
Belgium- Luxembourg	12.3 (38.1)	18.1 (9.3)	36.1 (7.7)	- (7.2)	2.2 (6.8)	- (6.5)	3.1 (6.0)	3.5 (5.3)	1.3 (2.3)	0.9 (2.2)	1.8 (2.1)	2.6 (2.1)	- (1.8)	3.5 (1.6)	14.5	100.0
France	12.7 (38.1)	1.1 (9.3)	36.5 (7.7)	0.5 (7.2)	5.8 (6.8)	1.6 (6.5)	17.5 (6.0)	3.2 (5.3)	10.1 (2.3)	2.1 (2.2)	- (2.1)	5.8 (2.1)	- (1.8)	0.5 (1.6)	2.6	100.0
Australia	49.5 (38.1)	- (9.3)	- (7.7)	- (7.2)	5.1 (6.8)	11.1 (6.5)	1.0 (6.0)	9.1 (5.3)	- (2.3)	4.0 (2.2)	- (2.1)	- (2.1)	- (1.8)	1.0 (1.6)	19.2	100.0

Cont.....

Table 184. (continued)

(a) The United Kingdom was also a substantial importer of ferrochromium during the period, but is not included in the table as detailed information on the origin of its imports is not known. However, some information on the origin of its imports is given in Table 149 above showing the destination of exports for selected countries.

(b) Null percentage shown in brackets, and calculated as follows:

$$\text{Null percentage} = \frac{\text{Total exports of exporting country}}{\text{Total world exports}} \times 100$$

Source: Actual percentages based on data given in Table 183 above, and null percentages based on data given in Table 125 above.