

TABLE 2.- CHROMIUM PRODUCTION AND IMPORTS
(metric tons)

Year	Concentrate Production a/	Concentrate Imports	Ferrochrome Production	Chrome Brick Production
1925	6,000	800	40	ND
1926	7,000	800	200	ND
1927	10,000	1,000	200	ND
1928	8,000	1,000	600	ND
1929	9,000	1,000	500	ND
1930	10,000	1,500	300	ND
1931	9,000	1,500	200	ND
1932	14,000	1,500	1,100	4,500
1933	20,000	1,300	1,500	7,000
1934	25,000	1,800	2,300	7,000
1935	30,000	1,200	4,000	11,000
1936	35,000	4,000	6,000	9,000
1937	45,000	7,000	9,000	14,000
1938	50,000	9,000	15,000	23,000
1939	60,000	26,000	14,000	30,000
1940	60,000	30,000	15,000	27,000
1941	50,000	50,000	20,000	20,000
1942	70,000	33,000	20,000	24,000
1943	60,000	40,000	30,000	17,000
1944	70,000	15,000	20,000	12,000
1945	30,000	3,500	3,000	2,300
1946	4,000 b/	0	ND	ND
1947	3,000 b/	0	90	ND
1948	9,000 b/	0	150	20,000
1949	27,000 b/	0	ND	ND

a/ Data on the grade of these concentrates are available only for 1949, when 5,000 tons of the production averaged 50 percent Cr_2O_3 , the remainder, $\frac{3}{4}$ percent Cr_2O_3 .
b/ Fiscal year
ND: No data available
SOURCE: Natural Resources Section Report No 64 (Bibl 23); Ministry of International Trade and Industry.

TABLE 3.- MANGANESE PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year a/	Production		Imports of Manganese Ore d/	Exports of Manganese Dioxide Ore c/	Ferromanganese Production
	Manganese Ore b/	Manganese Dioxide Ore e/			
1925	4,000	1,900	54,000	760	7,000
1926	3,400	1,700	97,000	1,600	7,000
1927	3,200	1,400	100,000	1,400	11,000
1928	6,200	1,900	85,000	1,600	11,000
1929	6,900	860	72,000	2,100	18,000
1930	8,800	880	100,000	1,600	19,000
1931	7,500	1,100	10,000	3,300	10,000
1932	17,000	1,400	72,000	3,300	18,000
1933	26,000	1,600	120,000	6,000	30,000
1934	38,000	2,600	150,000	4,500	30,000
1935	46,000	3,200	170,000	5,200	30,000
1936	42,000	3,800	160,000	5,500	40,000
1937	56,000	4,200	147,000	5,600	60,000
1938	72,000	2,900	200,000	2,800	70,000
1939	66,000	2,800	150,000	3,700	70,000
1940	75,000	4,000	120,000	2,700	80,000
1941	120,000	7,700	44,000	ND	50,000
1942	170,000	8,100	38,000	ND	70,000
1943	260,000	9,000	92,000	ND	60,000
1944	350,000	9,900	40,000	ND	60,000
1945	130,000	4,500	10,000	ND	16,000
1946	30,000	2,200	ND	ND	ND
1947	30,000	5,400	ND	ND	7,000
1948	56,000	7,300	ND	ND	18,000
1949	93,000	7,000	ND	ND	ND

a/ Fiscal year
b/ Metallurgical grade, averaging $\frac{3}{4}$ percent Mn.
c/ Battery grade, averaging 75 percent MnO_2 .
d/ Metallurgical grade, averaging $\frac{4}{7}$ percent Mn.
e/ No data available
SOURCE: Japan Iron and Steel Control Assn, Japan Manganese Mining Assn, and Mining Bureau, Ministry of International Trade and Industry.

TABLE 4.- MOLYBDENUM PRODUCTION AND IMPORTS
(metric tons)

Year	Mine Production a/	Imports a/	Ferromolybdenum Production b/	Wire, Rod, and Powder Production c/
1925	0	5	0	1
1926	0	4	0	1
1927	0	18	0	1
1928	0	23	0	1
1929	0	20	0	3
1930	0	18	0	1
1931	0	12	20	2
1932	0	20	90	3
1933	0	60	300	5
1934	4	90	130	5
1935	5	90	200	5
1936	6	60	200	6
1937	9	400	300	9
1938	9	800	700	15
1939	9	3,500	1,400	20
1940	20	600	1,800	26
1941	70	300	1,000	30
1942	90	800	500	40
1943	150	1,200	400	120
1944	300	1,300	340	120
1945	180	100	70	40
1946	ND	0	ND	ND
1947	8 d/	0	2	40
1948	0	0	0	30 e/
1949	0	ND	ND	ND

a/ MoS_2 content
b/ 62 percent Mo
c/ No content. Refined powder.
d/ Fiscal year
e/ Powder
ND: No data available
SOURCE: Natural Resources Section Report No 72 (Bibl 28); Ministry of International Trade and Industry.

TABLE 5.- NICKEL PRODUCTION AND IMPORTS
(metric tons) g/

Year	Mine Production	Imports				Nickel Metal Production	Ferro-nickel Production
		Metallurgical Nickel	Nickel Matte	Nickel Ore	Nickel Bearing Iron Ore		
1925	0	400	ND	ND	ND	0	ND
1926	0	400	ND	ND	ND	0	ND
1927	0	600	ND	ND	ND	0	ND
1928	0	1,000	ND	ND	ND	0	ND
1929	0	800	ND	ND	ND	0	ND
1930	0	500	ND	ND	ND	0	ND
1931	0	800	ND	ND	ND	0	ND
1932	0	2,000	ND	ND	ND	0	ND
1933	0	3,000	ND	ND	ND	0	ND
1934	0	3,000	ND	ND	ND	0	ND
1935	0	4,000	ND	ND	ND	0	ND
1936	0	2,000	90	300	0	0	ND
1937	270	6,000	50	700	0	0	ND
1938	400	8,000	1	2,500	200	30	800
1939	900	12,000	0	1,400	360	140	1,200
1940	800	3,000	0	2,600	130	600	ND
1941	2,300	2,000	0	3,000	0	2,000	2,000
1942	1,300	ND	3	500	0	1,600	1,700
1943	1,700	ND	30	1,400	0	1,800	ND
1944	1,900	ND	170	500	0	600	ND
1945	700	ND	400	90	0	300	ND
1946	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0
1949	290	920	0	0	ND	ND	ND

a/ Ni content
ND: No data available
SOURCE: Natural Resources Section Reports No 54 (Bibl 10), No 57 (Bibl 29), and No 62 (Bibl 20); Ministry of International Trade and Industry.

TABLE 6.- TUNGSTEN PRODUCTION AND IMPORTS
(metric tons)

Year	Mine Production a/	Imports a/	Ferrotungsten Production b/	Wire, Rod, and Powder Production c/
1925	12	0	5	2
1926	30	0	14	3
1927	35	0	7	1
1928	36	0	11	2
1929	23	0	30	4
1930	30	1	27	4
1931	2	5	30	4
1932	0	20	60	5
1933	7	50	26	6
1934	15	130	230	8
1935	20	500	270	11
1936	120	1,000	450	13
1937	150	1,100	800	15
1938	200	1,600	1,500	26
1939	180	2,400	2,500	40
1940	300	3,000	3,000	60
1941	360	3,000	3,000	60
1942	500	4,000	2,000	70
1943	400	4,000	3,000	90
1944	350	3,400	1,600	120
1945	120	1,400	20	60
1946	ND	0	ND	ND
1947	3 d/	0	100	40
1948	6 d/	0	350	70
1949	12	ND	ND	ND

a/ WO₃ content
b/ 80 % W
c/ W content
d/ Fiscal year
ND: No data available
SOURCE: Natural Resources Section Reports No 61 (Bibl 27), No 62 (Bibl 20), and No 77 (Bibl 31); Ministry of International Trade and Industry.

TABLE 7.- ALUMINUM PRODUCTION AND IMPORTS
(metric tons)

Year	Alumina Production	Aluminum Production	Aluminum Imports	Bauxite Imports a/	Aluminum Shale Imports b/
1925	0	0	5,000	0	0
1926	0	0	7,000	0	0
1927	0	0	6,000	0	0
1928	0	0	10,000	0	0
1929	0	0	12,000	0	0
1930	0	0	12,000	0	0
1931	0	0	5,000	0	0
1932	0	0	8,000	0	0
1933	100	20	7,000	0	0
1934	2,400	1,000	10,000	0	0
1935	7,000	3,000	13,000	0	4,000
1936	13,000	6,000	10,000	25,000	8,000
1937	25,000	12,000	16,000	100,000	20,000
1938	40,000	18,000	30,000	200,000	27,000
1939	50,000	20,000	45,000	350,000	36,000
1940	70,000	30,000	13,000	300,000	50,000
1941	120,000	60,000	17,000	150,000	45,000
1942	200,000	90,000	20,000	500,000	50,000
1943	300,000	110,000	30,000	900,000	50,000
1944	200,000	90,000	26,000	350,000	150,000
1945	40,000	16,000	2,000 g/	1,800 d/	40,000
1946	4,000	3,000	0	3,000	0
1947	3,000	2,700	0	0	0
1948	18,000	7,000	2,700	100,000	0
1949	ND	21,000	ND	ND	ND

a/ Into Japan and Formosa
b/ Into Japan and Korea
c/ 1 Apr-30 Jun
d/ April only
ND: No data available
SOURCE: Natural Resources Section Report No 87 (Bibl 32); Ministry of International Trade and Industry; Economic and Scientific Section (for 1945-48 import figures).

TABLE 8.- ANTIMONY PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production a/	Smelter and Refinery Production	Imports a/	Exports
1925	6	0	1,000	80
1926	14	0	1,600	100
1927	0	0	2,000	100
1928	30	0	2,000	130
1929	25	0	2,000	110
1930	17	0	1,700	70
1931	14	0	2,000	40
1932	24	0	2,000	60
1933	23	0	2,900	70
1934	30	0	2,600	50
1935	70	0	3,000	100
1936	80	1	3,600	80
1937	200	60	3,000	50
1938	200	500	2,000	12
1939	130	2,500	1,300	35
1940	180	2,600	1,300	20
1941	250	4,000	2,300	34
1942	350	2,000	800	3
1943	600	600	6	1
1944	450	500	80	1
1945	200	50	7	0
1946	60 b/ c/	100	0	0
1947	100 b/ c/	40	0	0
1948	160 b/ c/	180	0	0
1949	170 c/	320	2,400	0

a/ Recoverable primary antimony
b/ Fiscal year
c/ Content in concentrate
SOURCE: Natural Resources Section Report No 92 (Bibl 34); Ministry of International Trade and Industry.

TABLE 9.- ARSENIC PRODUCTION AND EXPORTS
(metric tons of As₂O₃)

Year	Smelter Production	Exports
1925	3,500	ND
1926	1,000	ND
1927	1,700	ND
1928	2,000	2,000
1929	2,000	1,700
1930	1,700	1,300
1931	2,600	2,400
1932	2,600	2,200
1933	2,400	1,300
1934	3,000	2,300
1935	3,000	2,000
1936	2,600	1,200
1937	3,600	1,100
1938	3,500	800
1939	3,500	1,400
1940	4,000	800
1941	3,500	800
1942	2,000	300
1943	2,300 a/	600
1944	1,400 a/	b/
1945	ND	b/
1946	1,100	0
1947	1,500 b/ c/	0
1948	2,300 c/	0
1949	3,000 c/	ND

a/ Minimum
b/ Probably none
c/ Arsenic content of crude ore plus by-product arsenic produced at Ashio copper smelter; does not include by-product arsenic from other smelters.
ND: No data available
SOURCE: Natural Resources Section Report No 44 (Bibl 35); Mining Bureau, Ministry of International Trade and Industry.

TABLE 10.- COPPER PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production ^{a/}	Imports of Ore and Concentrates ^{b/}	Smelter Production ^{c/}	Refinery Production	Refined Copper Imports	Refined Copper Exports
1925	50,000	ND	ND	70,000	4,000	2,600
1926	60,000	ND	ND	70,000	17,000	2,500
1927	60,000	ND	ND	70,000	13,000	3,000
1928	60,000	ND	ND	70,000	20,000	3,000
1929	60,000	ND	ND	80,000	9,000	8,000
1930	60,000	ND	ND	80,000	2,000	30,000
1931	60,000	ND	ND	80,000	2,000	27,000
1932	60,000	ND	ND	70,000	2,000	25,000
1933	60,000	ND	ND	70,000	18,000	9,000
1934	60,000	ND	ND	70,000	50,000	13,000
1935	70,000	ND	70,000	70,000	70,000	18,000
1936	70,000	ND	80,000	80,000	50,000	12,000
1937	70,000	ND	80,000	80,000	100,000	13,000
1938	70,000	ND	90,000	90,000	100,000	7,000
1939	70,000	ND	90,000	90,000	110,000	1,110
1940	70,000	ND	100,000	100,000	110,000	8,000
1941	60,000	9,000	110,000	100,000	50,000	0
1942	70,000	9,000	110,000	100,000	700	0
1943	80,000	13,000	120,000	120,000	500	0
1944	70,000	7,000	90,000	100,000	4,000	0
1945	26,000	900	50,000	27,000	ND	0
1946	20,000	0	25,000	23,000	0	400
1947	25,000	0	40,000	40,000	0	2,300
1948	30,000	0	60,000	50,000	0	100 ^{d/}
1949	32,000	ND	72,000	71,000	ND	30,300 ^{d/}

^{a/} Cu content of concentrate

^{b/} Cu content

^{c/} Blister copper

^{d/} Mostly in the form of fabricated items

ND: No data available

SOURCE: Compiled by Natural Resources Section from data supplied by the Ministry of International Trade and Industry and by mining companies

TABLE 11.- LEAD PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production ^{a/}	Crude Lead and Concentrate Imports	Refinery Production	Refined Lead Imports	Refined Lead Exports
1925	4,500	2,300	5,000	40,000	0
1926	4,500	400	4,000	60,000	0
1927	5,000	300	4,000	60,000	0
1928	4,500	1,000	4,000	60,000	600
1929	4,000	500	4,000	60,000	600
1930	4,000	130	3,500	60,000	600
1931	5,000	30	4,000	50,000	500
1932	6,000	450	6,000	60,000	500
1933	9,000	700	8,000	70,000	800
1934	7,000	1,000	8,000	100,000	2,000
1935	7,000	1,100	8,000	90,000	2,000
1936	9,000	2,000	9,000	100,000	2,300
1937	11,000	6,000	16,000	100,000	2,000
1938	12,000	6,000	17,000	70,000	2,000
1939	14,000	7,000	14,000	100,000	1,400
1940	17,000	11,000	30,000	90,000	1,300
1941	16,000	14,000	30,000	80,000	0
1942	14,000	7,000	27,000	1,000	0
1943	20,000	11,000	30,000	4,000	0
1944	16,000	20,000	40,000	2,600	0
1945	5,000	4,000	13,000	200	0
1946	5,000 ^{b/}	0	5,000	0	11,000
1947	6,000 ^{b/}	0	9,000	0	5,000
1948	7,000 ^{b/}	3,000	11,000	0	0
1949	9,000	ND	15,000	ND	6,100

^{a/} Recoverable metal

^{b/} Fiscal year

ND: No data available

SOURCE: Natural Resources Section Report No 65 (Bibl 11); Ministry of International Trade and Industry; Economic and Scientific Section (for import and export figures).

TABLE 12.- MERCURY
PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production	Imports	Exports
1925	0.0	500	15
1926	0.0	300	15
1927	0.0	270	12
1928	0.5	300	12
1929	1.4	300	10
1930	4.0	250	12
1931	3.5	260	14
1932	2.4	340	24
1933	8.0	400	30
1934	7.0	500	26
1935	5.0	800	30
1936	15.0	500	30
1937	13.0	600	27
1938	25.0	400	15
1939	50.0	500	30
1940	120.0	700	30
1941	150.0	1,300	50
1942	180.0	20	50
1943	250.0	270	36
1944	240.0	12	20
1945	100.0	0.1	5
1946	60.0 ^{a/}	0	0
1947	40.0 ^{a/}	0	90
1948	60.0 ^{a/}	0	360
1949	90.2 ^{a/}	0	95

^{a/} Fiscal year

SOURCE: Natural Resources Section Report No 91 (Bibl 43); Ministry of International Trade and Industry; Economic and Scientific Section (for 1946-49 import and export figures).

TABLE 13.- TIN PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production a/	Metallurgical Tin Imports	Concentrate Imports a/	Exports a/	Refinery Production
1925	400	3,000	0	400	360
1926	600	4,000	0	400	900
1927	700	4,000	0	300	600
1928	900	4,000	0	400	600
1929	900	4,000	0	300	700
1930	900	3,000	0	350	800
1931	1,500	3,000	0	600	900
1932	1,500	3,400	0	700	900
1933	1,200	3,500	0	700	900
1934	1,600	4,000	0	700	1,000
1935	1,700	4,000	0	400	2,000
1936	2,300	5,000	0	500	2,000
1937	2,300	7,000	0	500	2,000
1938	2,500	9,000	0	60	2,200
1939	2,300	8,000	0	4	2,000
1940	2,000	11,000	12	4	2,000
1941	2,000	5,000	2,600	ND	4,000
1942	2,000	4,000	2,300	ND	5,000
1943	1,200	22,000	700	ND	2,000
1944	500	9,000	120	ND	800
1945	40	4,000	0	ND	120
1946	80	0	0	10,000	200
1947	100	0	0	0	50
1948	110	1,500 b/	0	0	150
1949	190	ND	ND	ND	490

a/ Sn content
b/ Tinplate
ND: No data available
SOURCE: Bibl 44; Ministry of International Trade and Industry; Economic and Scientific Section (for 1945-49 import and export data)

TABLE 14.- ZINC PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Mine Production a/	Zinc Concentrate Imports	Refinery Production	By-Products b/ c/	Refined Zinc Imports	Refined Zinc Exports
1925	13,000	4,000	17,000	400	28,000	16
1926	12,000	4,000	17,000	400	40,000	2
1927	14,000	7,000	17,000	500	30,000	0
1928	14,000	3,500	20,000	600	40,000	0
1929	15,000	3,000	20,000	600	30,000	0
1930	20,000	6,000	24,000	700	30,000	0
1931	18,000	6,000	25,000	1,300	25,000	0
1932	18,000	8,000	26,000	1,500	27,000	0
1933	20,000	14,000	30,000	2,300	30,000	0
1934	23,000	7,000	30,000	2,500	30,000	0
1935	25,000	8,000	30,000	3,000	50,000	0
1936	30,000	23,000	30,000	3,400	60,000	0
1937	40,000	11,000	50,000	3,600	70,000	0
1938	50,000	10,000	50,000	6,000	40,000	0
1939	50,000	15,000	60,000	6,000	60,000	0
1940	60,000	19,000	60,000	6,000	25,000	0
1941	60,000	13,000	60,000	5,000	6,000	0
1942	70,000	6,000	50,000	5,000	3,000	0
1943	80,000	2,000	60,000	4,000	3,000	0
1944	60,000	8,000	60,000	4,000	700	0
1945	20,000	2,500	20,000	1,400	5	0
1946	20,000 d/	0	11,000	ND	0	2,500 f/
1947	30,000 e/	1,200	15,000	ND	0	20,000 g/
1948	35,000 e/	1,800	20,000	ND	0	24,000 g/
1949	44,000 d/	ND	21,000	ND	ND	220

a/ Recoverable metal
b/ Zinc dust, zinc sulfate and lithopone, made only from zinc concentrates.
c/ Zn content
d/ Content in concentrate
e/ Fiscal year
f/ Includes zinc content of concentrates, as well as refined zinc.
ND: No data available
SOURCE: Natural Resources Section Report No 65 (Bibl 44); Ministry of International Trade and Industry; Economic and Scientific Section (for import and export figures).

TABLE 15.- GOLD AND SILVER MINE PRODUCTION
(kilograms of metal contained in concentrate)

Year	Gold Production a/			Silver Production b/		
	From Gold-Silver Mines	From Base Metal Mines	Total	From Gold-Silver Mines	From Base Metal Mines	Total
1925	5,000	1,200	6,200	30,000	50,000	80,000
1926	5,000	1,500	6,500	40,000	60,000	100,000
1927	6,000	2,000	8,000	45,000	70,000	115,000
1928	6,000	1,800	7,800	50,000	60,000	110,000
1929	6,000	2,000	8,000	50,000	60,000	110,000
1930	7,000	2,000	9,000	60,000	70,000	130,000
1931	7,000	1,700	8,700	60,000	70,000	130,000
1932	8,000	2,000	10,000	70,000	80,000	150,000
1933	8,000	2,500	10,500	90,000	80,000	170,000
1934	9,000	3,000	12,000	100,000	90,000	190,000
1935	10,000	3,500	13,500	110,000	100,000	210,000
1936	12,000	4,000	16,000	130,000	110,000	240,000
1937	13,000	4,000	17,000	130,000	120,000	250,000
1938	14,000	5,000	19,000	140,000	140,000	280,000
1939	15,000	6,000	21,000	150,000	160,000	310,000
1940	15,000	7,000	22,000	150,000	200,000	350,000
1941	14,000	6,000	20,000	130,000	170,000	300,000
1942	13,000	6,000	19,000	120,000	180,000	300,000
1943	5,000	4,500	9,500	60,000	200,000	260,000
1944	2,000	3,000	5,000	30,000	140,000	170,000
1945	700	1,100	1,800	10,000	45,000	55,000
1946	800	700	1,500	14,000	30,000	44,000
1947	1,100	800	1,900	21,000	48,000	69,000
1948	1,500	900	2,200	23,000	54,000	77,000
1949	1,800	1,100	2,900	28,000	62,000	90,000

a/ During 1925-45 an additional 3,000 kilograms of gold were produced by small mines for which annual breakdown is unavailable.
b/ During 1925-45 an additional 130,000 kilograms of silver were produced by small mines for which annual breakdown is unavailable.
c/ Fiscal year
SOURCE: Bibl 50; Ministry of International Trade and Industry.

TABLE 16.- PRODUCTION AND IMPORTS OF PLATINUM GROUP METALS
(grams)

Year	Placer Iridosmine	Platinum Scrap a/	Platinum Imports
1925	6,000	0	2,000
1926	6,000	0	60,000
1927	1,500	0	340,000
1928	3,000	0	600,000
1929	5,000	0	450,000
1930	4,000	0	500,000
1931	9,000	0	1,000,000
1932	8,000	0	340,000
1933	6,000	0	1,000,000
1934	4,000	0	1,200,000
1935	1,600	0	700,000
1936	1,000	0	800,000
1937	2,400	0	2,000,000
1938	11,000	0	150,000
1939	4,000	0	ND
1940	6,000	500,000	100,000
1941	10,000	200,000	100,000
1942	15,000	500,000	ND
1943	17,000	70,000	ND
1944	25,000	800,000	ND
1945	20,000	140,000	ND
1946	1,500 b/	0	0
1947	1,500 b/	0	0
1948	800 b/	0	0
1949	6,500 b/	0	ND

a/ Content of platinum metal
b/ Hokkaido Iridosmine Union data
ND: No data available
SOURCE: Natural Resources Section Report No 44 (Bibl 10); Ministry of International Trade and Industry.

TABLE 17. - ASBESTOS PRODUCTION AND IMPORTS
(metric tons)

Year	Production		Imports (all chrysotile)
	Amphibole	Chrysotile	
1925	a/	0	0
1926	a/	0	4,000
1927	a/	0	8,000
1928	a/	0	10,000
1929	a/	0	10,000
1930	a/	0	14,000
1931	a/	0	10,000
1932	a/	0	10,000
1933	a/	0	16,000
1934	a/	0	20,000
1935	a/	0	20,000
1936	400	0	30,000
1937	400	30	40,000
1938	400	30	30,000
1939	400	30	40,000
1940	3,900	30	30,000
1941	3,800	90	18,000
1942	2,000	1,500	b/
1943	1,600	3,700	b/
1944	4,700	8,200	b/
1945	3,000	5,000	b/
1946	40	4,000	b/
1947	0	3,500	b/
1948	200	4,700	b/
1949	250	5,200	b/

a/ Probably less than 500 tons
b/ Probably 0 or small amounts
SOURCE: Natural Resources Section Report No 115 (Bibl 52);
Ministry of International Trade and Industry.

TABLE 18. - BARITE PRODUCTION AND IMPORTS
(metric tons)

Year	Mine Production a/	Imports
1925	b/	5,000
1926	b/	5,000
1927	b/	6,000
1928	b/	7,000
1929	b/	9,000
1930	b/	10,000
1931	b/	10,000
1932	b/	14,000
1933	b/	22,000
1934	b/	19,000
1935	2,000	23,000
1936	11,000	13,000
1937	11,000	19,000
1938	13,000	17,000
1939	14,000	20,000
1940	13,000	21,000
1941	14,000	16,000
1942	15,000	15,000
1943	16,000	14,000
1944	12,000	8,000
1945	8,000	5,000
1946	800 c/	0
1947	900	0
1948	3,000	0
1949	9,200	0

a/ Average 95 percent BaSO₄
b/ Probably less than 1,000 tons
c/ Fiscal year
SOURCE: Based on Natural Resources Section Report No 67 (Bibl 53);
Ministry of International Trade and Industry.

TABLE 19. - FIRE CLAY AND BALL CLAY
PRODUCTION AND SHALE IMPORTS
(metric tons)

Year	Fire Clay Production			Ball Clay a/	Imports of High-Aluminum Shale b/
	Flint-Type	Plastic-Type	Total		
1925	8,500	100,000	108,500	ND	0
1926	9,500	100,000	109,500	ND	0
1927	10,000	100,000	110,000	ND	0
1928	10,000	110,000	120,000	ND	0
1929	16,000	120,000	136,000	ND	0
1930	28,000	120,000	148,000	502,000	37,000
1931	28,000	120,000	148,000	501,000	23,000
1932	25,000	230,000	255,000	547,000	43,000
1933	20,000	350,000	370,000	542,000	85,000
1934	29,000	350,000	379,000	648,000	110,000
1935	39,000	350,000	389,000	487,000	140,000
1936	40,000	350,000	390,000	501,000	150,000
1937	34,000	350,000	384,000	446,000	200,000
1938	71,000	400,000	471,000	467,000	330,000
1939	89,000	550,000	639,000	442,000	360,000
1940	82,000	500,000	582,000	545,000	360,000
1941	98,000	600,000	698,000	515,000	320,000
1942	110,000	500,000	610,000	177,000	320,000
1943	130,000	500,000	630,000	172,000	280,000
1944	200,000	370,000	570,000	116,000	330,000
1945	110,000	88,000	198,000	79,000	0
1946	31,000	90,000	121,000	60,000	0
1947	55,000	120,000	175,000	103,000	0
1948	85,000	150,000	235,000	157,000	0
1949	129,000	190,000	319,000	240,000	ND

a/ "Gaeome"; production of unwashed clay.
b/ From Korea, Manchuria, and North China.
ND: No data available
SOURCE: Natural Resources Section Report No 130 (Bibl 54)

TABLE 20. - BLEACHING CLAY PRODUCTION AND EXPORTS
AND BENTONITE PRODUCTION
(metric tons)

Year	Bleaching Clay Production			Bleaching Clay Exports c/	Bentonite Production
	Naturally Adsorptive a/	Activated b/	Total		
1935	8,500	7,200	15,700	5,400	ND
1936	9,200	3,300	12,500	6,000	ND
1937	10,000	8,000	18,000	7,100	ND
1938	11,000	16,000	27,000	8,300	12,000
1939	13,000	22,000	35,000	6,400	20,000
1940	14,000	34,000	48,000	5,600	25,000
1941	14,000	37,000	51,000	3,600	35,000
1942	16,000	28,000	44,000	2,900	45,000
1943	18,000	29,000	47,000	2,100	60,000
1944	18,000	29,000	47,000	570	40,000
1945	13,000	14,000	27,000	0	30,000
1946	1,700	2,800	4,500	0	30,000
1947	1,900	2,000	3,900	0	35,000
1948	1,400	2,600	4,000	0	35,000
1949	1,300 d/	2,700 d/	4,000	0	40,000 d/

a/ Finished product; about 1.6 tons of clay is mined for each ton of finished production.
b/ Finished product; about 2.7 tons of clay is mined for each ton of finished production.
c/ About 75 percent naturally adsorptive clay
d/ Estimated
ND: No data available
SOURCE: Natural Resources Section Report No 139 (Bibl 55)

TABLE 21.- FLUORITE PRODUCTION AND IMPORTS
(metric tons)

Year	Fluorite Concentrate Mine Production ^{a/}	Imports
1925	0	0
1926	0	0
1927	0	0
1928	0	1,000
1929	0	1,500
1930	0	5,000
1931	0	2,600
1932	0	8,000
1933	0	9,000
1934	0	12,000
1935	0	9,000
1936	0	8,000
1937	0	13,000
1938	70	23,000
1939	2,000	40,000
1940	3,500	45,000
1941	4,000	50,000
1942	8,000	100,000
1943	7,000	130,000
1944	8,000	170,000
1945	3,000	35,000
1946	ND	400
1947	ND	0
1948	70	900
1949	960	22,000 ^{b/}

^{a/} Averaging 60 percent CaF₂
^{b/} Averaging 75-95 percent CaF₂

ND: No data available

SOURCE: Natural Resources Section Report No 75 (Bibl 58);
Ministry of International Trade and Industry; Economic
and Scientific Section (for 1946-49 import figures).

TABLE 22.- PRODUCTION AND IMPORTS OF
GARNET AND OTHER ABRASIVES
(metric tons)

Year	Garnet Production	Abrasives Imports ^{a/}
1925	3,000 ^{b/}	1,600
1926	3,000 ^{b/}	2,000
1927	3,000 ^{b/}	1,700
1928	3,000 ^{b/}	2,000
1929	3,000 ^{b/}	3,000
1930	3,000 ^{b/}	2,700
1931	1,600	3,000
1932	1,600	3,000
1933	2,000	3,000
1934	2,300	4,000
1935	2,200	5,000
1936	3,000	4,000
1937	1,600	6,000
1938	2,600	3,000
1939	3,000	4,000
1940	3,000	900
1941	2,600	170
1942	2,000	0
1943	400	1
1944	400	0
1945	600 ^{c/}	0
1946	0	0

^{a/} Includes natural and artificial abrasives

^{b/} Probably excessive estimates

^{c/} All garnet producing operations ceased by August 1945,
because of shortages of materials and labor.

SOURCE: Natural Resources Section Preliminary Study No 7
(Bibl 60); Ministry of International Trade and Industry.

TABLE 23.- GRAPHITE PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Production ^{a/}	Imports ^{b/}	Exports ^{b/}
1925	230	16,000	6,000
1926	170	20,000	6,000
1927	200	20,000	6,000
1928	180	22,000	6,000
1929	160	24,000	5,400
1930	140	21,000	4,000
1931	130	15,000	5,000
1932	200	17,000	5,000
1933	260	26,000	4,000
1934	300	30,000	5,000
1935	400	50,000	5,000
1936	450	40,000	6,000
1937	600	40,000	5,000
1938	500	50,000	2,700
1939	500	80,000	5,000
1940	600	80,000	3,500
1941	900	70,000	2,000
1942	700	70,000	30
1943	2,000	70,000	40
1944	2,400	80,000	0
1945	4,000	7,000	0
1946	3,000	5,000	0
1947	7,000 ^{c/}	16,000	0
1948	13,000 ^{c/}	30,000	0
1949	3,000	21,000	0

^{a/} Recoverable carbon content

^{b/} Includes crude ore, concentrate, and fabricated articles.

^{c/} Crude ore

SOURCE: Natural Resources Section Report No 81 (Bibl 61);
Ministry of International Trade and Industry; Economic
and Scientific Section (for 1946-49 import figures).

TABLE 24.- GYPSUM PRODUCTION AND IMPORTS
(metric tons)

Year	Concentrate Production ^{a/}	Imports
1925	26,000	9,000
1926	30,000	12,000
1927	30,000	15,000
1928	30,000	20,000
1929	40,000	22,000
1930	21,000	20,000
1931	40,000	10,000
1932	50,000	8,000
1933	70,000	7,000
1934	60,000	12,000
1935	70,000	10,000
1936	90,000	17,000
1937	100,000	11,000
1938	130,000	11,000
1939	160,000	14,000
1940	180,000	3,400
1941	200,000	2,600
1942	200,000	3,000
1943	160,000	400
1944	120,000	150
1945	80,000	ND
1946	50,000 ^{b/}	0
1947	50,000	0
1948	110,000	0
1949	120,000	0

^{a/} About 33 percent SO₃

^{b/} Fiscal year

ND: No data available

SOURCE: Natural Resources Section Report No 60 (Bibl 62);
Ministry of International Trade and Industry.

TABLE 25. - LIMESTONE PRODUCTION AND CONSUMPTION
(1,000 metric tons)

Year a/	Production	Consumption			Cement Production b/
		Cement Industry	Agriculture	Iron and Steel	
1925	4,000	1,700	1,200	500	2,300
1926	5,000	2,300	1,500	600	3,000
1927	6,000	2,400	1,700	600	3,000
1928	6,000	2,500	1,700	700	3,500
1929	7,000	3,000	2,000	700	4,000
1930	6,000	2,400	1,700	700	3,000
1931	6,000	2,300	1,700	700	3,000
1932	6,000	2,600	2,000	700	3,400
1933	8,000	3,000	2,300	1,000	4,000
1934	8,000	3,600	2,000	1,000	4,000
1935	9,000	4,000	2,000	1,000	5,000
1936	10,000	4,000	2,400	1,300	6,000
1937	11,000	5,000	2,700	1,400	6,000
1938	12,000	5,000	3,000	1,600	5,000
1939	13,000	6,000	3,000	1,800	6,000
1940	13,000	6,000	3,000	2,000	6,000
1941	13,000	6,000	3,000	2,300	6,000
1942	13,000	4,000	3,000	2,700	4,000
1943	14,000	4,000	4,000	3,000	4,000
1944	9,000	3,000	2,000	2,400	3,000
1945	5,000	1,300	1,200	900	1,200
1946	5,000	ND	ND	ND	ND
1947	6,000 b/	ND	ND	ND	ND
1948	6,000 b/	ND	ND	ND	ND
1949	8,600	ND	ND	ND	ND

a/ Fiscal year
b/ Calendar year

ND: No data available

SOURCE: Supplement to NR Report No 60 (Bibl 65); Ministry of International Trade and Industry.

TABLE 26. - PYRITE PRODUCTION, IMPORTS, AND EXPORTS
(metric tons)

Year	Pyrite Ore Production		Sulfuric Acid a/ Calculated as Pyrite	Pyrite Imports	Pyrite Exports	Sulfuric Acid Production b/
	Amount	Percentage of Sulfur				
1925	400,000	44	9,000	0	0	900,000
1926	400,000	45	20,000	0	0	900,000
1927	500,000	45	27,000	0	0	1,000,000
1928	600,000	46	30,000	0	0	1,200,000
1929	600,000	46	40,000	0	0	1,100,000
1930	600,000	46	60,000	0	0	1,000,000
1931	600,000	47	80,000	0	0	1,200,000
1932	700,000	47	80,000	0	0	1,500,000
1933	900,000	47	90,000	0	0	1,800,000
1934	1,000,000	47	100,000	0	4,000	2,000,000
1935	1,100,000	47	110,000	0	70,000	2,300,000
1936	1,700,000	47	190,000	40,000	400,000	3,000,000
1937	2,000,000	46	160,000	90,000	300,000	4,000,000
1938	2,000,000	45	170,000	70,000	400,000	3,400,000
1939	2,000,000	45	200,000	0	340,000	3,000,000
1940	2,000,000	44	200,000	0	270,000	3,000,000
1941	2,000,000	44	200,000	0	400,000	3,300,000
1942	2,000,000	44	200,000	30,000	340,000	2,500,000
1943	1,600,000	45	200,000	50,000	300,000	2,400,000
1944	1,200,000	44	150,000	23,000	200,000	1,600,000
1945	400,000	44	30,000	0	40,000	500,000
1946	500,000 c/	42	ND	0	0	ND
1947	800,000 c/	42	ND	0	0	ND
1948	1,100,000 c/	42	ND	0	0	ND
1949	1,500,000	41	ND	ND	ND	ND

a/ Conversion of sulfuric acid produced from by-product pyrite at base metal smelters to pyrite equivalent

b/ Includes direct and by-product sulfuric acid production (that is, from direct roasting of pyrite concentrates and from metal smelting) calculated as 50° Baume (62.5 percent sulfuric acid)

c/ Fiscal year

ND: No data available

SOURCE: Natural Resources Section Report No 70 (Bibl 67); Ministry of International Trade and Industry.

TABLE 27. - QUARTZ AND REFRACTORY SILICA PRODUCTION AND IMPORTS
(metric tons)

Year	Quartz Sand		Fegnatite Quartz Production	Refractory Silica Production
	Production	Imports		
1925	ND	47,000	ND	4,100
1926	ND	54,000	ND	6,700
1927	ND	54,000	ND	9,300
1928	ND	65,000	ND	17,000
1929	ND	64,000	ND	22,000
1930	1,000	70,000	ND	25,000
1931	11,000	77,000	ND	33,000
1932	14,000	77,000	ND	75,000
1933	23,000	95,000	ND	100,000
1934	25,000	105,000	ND	120,000
1935	26,000	115,000	ND	160,000
1936	65,000	110,000	2,800	160,000
1937	77,000	175,000	4,300	160,000
1938	120,000	120,000	10,000	205,000
1939	140,000	96,000	11,000	225,000
1940	250,000	120,000	13,000	250,000
1941	265,000	73,000	19,000	375,000
1942	285,000	61,000	29,000	205,000
1943	305,000	50,000	50,000	360,000
1944	285,000	33,000	62,000	505,000
1945	105,000	1,000	46,000	265,000
1946	45,000	0	14,000	69,000
1947	105,000	0	38,000	105,000
1948	200,000	0	52,000	195,000
1949	230,000	0	100,000	220,000

ND: No data available

SOURCE: Natural Resources Section Report No 135 (Bibl 57) and Natural Resources Section Preliminary Study No 44 (Bibl 71)

TABLE 28. - STONE PRODUCTION, 1925-38
(cubic meters)

Year	Granite	Andesite	Tuff	Sandstone	Marble	Construction Limestone a/ (metric tons)
1925	400,000	200,000	340,000	140,000	2,000	150,000
1926	500,000	300,000	300,000	140,000	2,400	200,000
1927	400,000	300,000	340,000	150,000	3,000	200,000
1928	500,000	300,000	340,000	170,000	3,000	220,000
1929	500,000	300,000	240,000	200,000	2,700	240,000
1930	500,000	300,000	200,000	200,000	5,000	200,000
1931	600,000	300,000	180,000	170,000	4,000	200,000
1932	400,000	300,000	200,000	200,000	4,000	240,000
1933	500,000	400,000	200,000	260,000	5,000	300,000
1934	500,000	400,000	300,000	220,000	6,000	300,000
1935	500,000	500,000	300,000	200,000	4,000	360,000
1936	600,000	500,000	300,000	200,000	5,000	400,000
1937	500,000	400,000	300,000	250,000	9,000	400,000
1938	600,000	600,000	300,000	340,000	5,000	360,000

a/ From Supplement to NR Report No 60 (Bibl 65)

SOURCE: Ministry of International Trade and Industry, except as noted.

TABLE 29.-SULFUR PRODUCTION AND EXPORTS
(metric tons)

Year	Refined Sulfur Production	Exports
1925	50,000	4,000
1926	50,000	4,000
1927	60,000	4,000
1928	70,000	5,000
1929	60,000	10,000
1930	60,000	6,000
1931	60,000	14,000
1932	80,000	26,000
1933	120,000	30,000
1934	140,000	50,000 ^{a/}
1935	170,000	50,000 ^{a/}
1936	200,000	70,000 ^{a/}
1937	230,000	60,000 ^{a/}
1938	230,000	30,000 ^{a/}
1939	200,000	30,000 ^{a/}
1940	200,000	17,000 ^{a/}
1941	200,000	60,000
1942	170,000	60,000
1943	150,000	60,000
1944	80,000	20,000
1945	40,000	2,000 ^{a/}
1946	20,000	2,500
1947	30,000	2,000
1948	40,000	700
1949	60,000	ND

a/ Excludes exports to Korea, Formosa, and Sakhalin.
ND: No data available
SOURCE: Natural Resources Section Report No 66 (Bibl 74);
Ministry of International Trade and Industry; Economic
and Scientific Section (for 1946-48 export figures).

TABLE 30.-TALC PRODUCTION AND IMPORTS
(metric tons)

Year	Production	Imports
1925	ND	25,000
1926	ND	30,000
1927	ND	30,000
1928	ND	30,000
1929	ND	40,000
1930	ND	40,000
1931	ND	40,000
1932	ND	35,000
1933	ND	60,000
1934	ND	50,000
1935	ND	70,000
1936	ND	70,000
1937	ND	90,000
1938	ND	70,000
1939	ND	70,000
1940	ND	70,000
1941	ND ^{a/}	30,000
1942	700 ^{b/}	20,000
1943	600 ^{b/}	13,000
1944	500 ^{b/}	6,000
1945	500 ^{b/}	500
1946	4,000 ^{b/}	600
1947	13,000	2,500
1948	13,000	1,000
1949	12,000	ND

a/ During 1925-41, total probably less than 50 tons.
b/ Minimum
ND: No data available
SOURCE: Natural Resources Section Preliminary Study No 30
(Bibl 75); Ministry of International Trade and
Industry; Economic and Scientific Section (for 1946-48
import figures).

TABLE 31.-COAL
- PRODUCTION, IMPORTS, AND EXPORTS
(1,000 metric tons)

Year ^{a/}	Production	Imports	Exports
1925	30,000	2,000	3,000
1926	31,000	2,400	3,000
1927	34,000	3,000	2,600
1928	34,000	3,000	2,500
1929	34,000	3,600	2,400
1930	31,000	3,000	2,600
1931	28,000	3,000	2,000
1932	28,000	3,000	2,000
1933	33,000	4,000	2,000
1934	36,000	5,000	1,700
1935	38,000	5,000	1,800
1936	42,000	6,000	2,000
1937	45,000	6,000	2,000
1938	49,000	7,000	2,000
1939	52,000	8,000	1,700
1940	57,000	10,000	1,500
1941	56,000	10,000	1,700
1942	54,000	9,000	1,600
1943	56,000	6,000	1,100
1944	49,000	3,000	700
1945	22,000	300	0
1946	23,000	0	360
1947	29,000	30 ^{b/}	800
1948	35,000	1,200 ^{b/}	1,100
1949	38,000	ND	ND

a/ Figures through 1938, calendar year; figures beginning
1939, fiscal year; 1 Jan 39-31 Mar 39 figure not avail-
able.

b/ Coking coal and coke

ND: No data available

SOURCE: Natural Resources Section Report No 21 (Bibl 82);
Natural Resources Section Preliminary Study No 19
(Bibl 86); Ministry of International Trade and
Industry; Economic and Scientific Section (for
1946-48 import figures).

TABLE 32.-PETROLEUM PRODUCTION AND IMPORTS
(1,000 kiloliters)

Year ^{a/}	Crude Oil Reserves	Crude Oil Production ^{b/}	Crude Imports	Refined Products Production	Refined Products Imports
1930	ND	317	570	720	1,520
1931	ND	306	616	791	1,660
1932	3,940	254	853	913	1,900
1933	3,870	226	1,020	1,070	1,980
1934	3,590	284	1,200	1,280	2,300
1935	4,420	351	1,350	1,520	2,860
1936	4,030	391	1,680	1,750	2,830
1937	3,700	393	2,330	2,090	3,300
1938	3,450	392	1,980	2,010	3,170
1939	3,160	371	1,750	1,940	1,680
1940	2,850	335	2,290	1,650	2,190
1941	3,120	306	694	1,750	665
1942	3,010	263	560	1,490	58
1943	2,920	275	981	1,680	143
1944	2,860	255	209	974	0
1945	2,650	241	0	259	45
1946	2,670	215	0	217	539
1947	2,630	198	0	165	1,170
1948	2,580	177	0	177	1,670
1949 ^{c/}	3,370	217	24	190	2,070

a/ Fiscal year

b/ Includes casinghead gasoline from 1937-49

c/ Estimated data for 1950: reserves, 4,470,000 kiloliters; crude oil
production, 348,000 kiloliters; crude imports, 1,600,000 kiloliters;
refined products production, 1,650,000 kiloliters; refined product
imports, 765,000 kiloliters.

ND: No data available

SOURCE: Petroleum Section, Natural Resources Agency, Ministry of
International Trade and Industry.

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