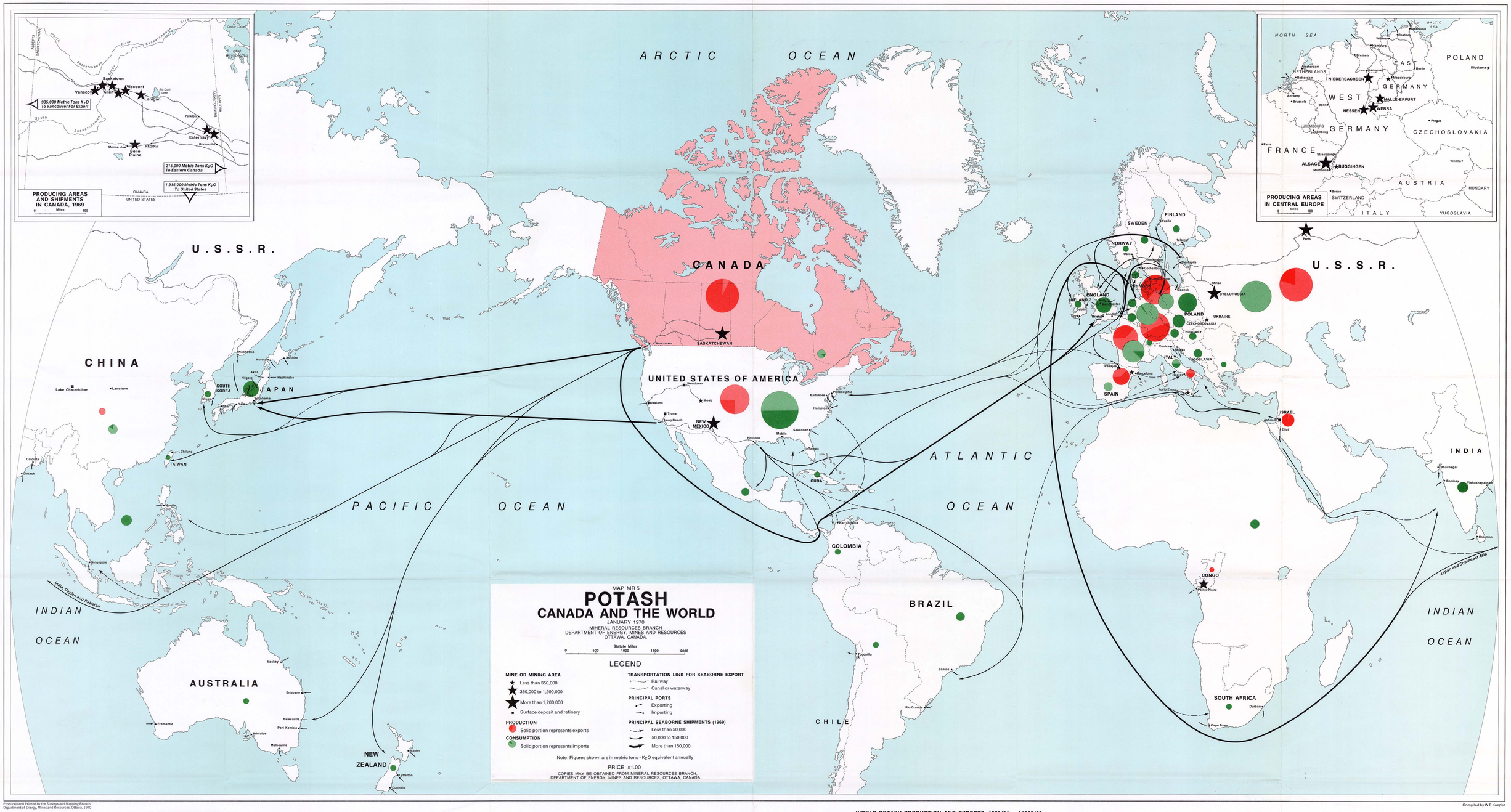

MAP MR 5

POTASH
CANADA AND THE WORLD

JANUARY 1970
MINERAL RESOURCES BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA, CANADA.

Statute Miles
0 500 1000 1500 2000

LEGEND

MINE OR MINING AREA
- Less than 350,000
- 350,000 to 1,200,000
- More than 1,200,000
- Surface deposit and refinery

PRODUCTION
- Solid portion represents exports

CONSUMPTION
- Solid portion represents imports

TRANSPORTATION LINK FOR SEABORNE EXPORT
- Railway
- Canal or waterway

PRINCIPAL PORTS
- Exporting
- Importing

PRINCIPAL SEABORNE SHIPMENTS (1969)
- Less than 50,000
- 50,000 to 150,000
- More than 150,000

Note: Figures shown are in metric tons - K_2O equivalent annually

PRICE $1.00

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Compiled by W E Kupke

SUMMARY OF WORLD POTASH MINES, JANUARY 1970

X denotes process and product
XX denotes main process and product

Company or Operating Name	Mine Name and/or Plant Location	Initial Production	Processing Methods: Crystallization	Processing Methods: Flotation	Principal Products: K_2SO_4 and/or $K_2Mg_2(SO_4)_3$	Principal Products: KCl 40-50% K_2O	Principal Products: KCl 60% K_2O	Principal Products: KCl 62% K_2O	Annual Capacity Thousand metric tons K_2O equiv.
NORTH AMERICA									
CANADA									
International Minerals & Chemical Corporation (Canada) Limited	K-1, Esterhazy, Saskatchewan	1962	X	XX	—	—	XX	X	1,160
Kalium Chemicals Limited	K-2, Esterhazy, Saskatchewan	1967	X	XX	—	—	146	X	950
Potash Company of America	Belle Plaine, Saskatchewan	1964	X	—	—	—	—	X	850
APM Operators Ltd.	Saskatoon, Saskatchewan	1965	X	XX	—	—	XX	X	415
Alwinsal Potash of Canada Limited	Allan, Saskatchewan	1968	X	XX	—	—	XX	X	825
Duval Corporation of Canada	Lanigan, Saskatchewan	1968	X	XX	—	—	XX	X	545
Cominco Ltd.	Saskatoon, Saskatchewan	1968	X	XX	—	—	XX	X	665
Central Canada Potash Co. Limited	Vanscoy, Saskatchewan	1969	X	XX	—	—	XX	X	655
	Viscount, Saskatchewan	1969	X	XX	—	—	XX	X	820
								Total Canada	6,885
UNITED STATES									
American Potash & Chemical Corporation, Inc.	Trona, California	1926	X	—	X	—	X	X	230
United States Potash & Chemical Co.	Carlsbad, New Mexico	1931	X	X	—	—	X	X	165
Potash Company of America	Carlsbad, New Mexico	1935	X	XX	X	—	XX	X	545
International Minerals & Chemical Corporation	Carlsbad, New Mexico	1940	X	X	X	—	X	X	220
Duval Corporation	Carlsbad, New Mexico	1952	X	XX	X	—	—	—	315
Southwest Potash Corporation	Carlsbad, New Mexico	1952	—	X	—	—	X	—	545
National Potash Co.	Carlsbad, New Mexico	1957	X	XX	—	—	X	X	320
Kermac Potash Co.	Carlsbad, New Mexico	1965	X	—	—	—	X	X	270
Texas Gulf Sulphur Company	Moab, Utah	1965	X	XX	X	—	XX	X	320
Kaiser Aluminum & Chemical Co.	Wendover, Utah	1938	X	—	X	—	—	—	50
								Total United States	2,985
SOUTH AMERICA									
CHILE									
Cia Salitrera Anglo-Lautaro (and others)	Coya Sur, Antofagasta	1800's	X	—	KNO_3	—	—	—	20
WESTERN EUROPE									
FRANCE									
Mines de Potasse d'Alsace S.A.	Amelie, Alsace	1911	X	—	—	—	X	X	360
	Anna-Fernand, Alsace	1914	X	—	—	—	X	X	230
	Botheller-Rodolphe, Alsace	1914	X	—	—	—	X	X	160
	Enisheim, Alsace		X	—	—	—	X	X	140
	Joseph-Else, Alsace	1914	X	X	—	—	X	X	250
	Marie-Louise, Alsace	1914	X	X	—	—	X	X	300
	Theodore, Alsace	1914	X	X	—	—	X	X	360
								Total France	1,800
GERMANY, WEST									
Salzdetfurth A.G. group	Hattorf, Hessen	1910	X	—	X	—	X	—	250
	Salzdetfurth, Niedersachsen	1900	X	X	—	—	X	X	250
	Sigmundshall, Niedersachsen	1900–10	X	X	—	—	X	X	200
	Hansa, Niedersachsen	1900–10	—	—	crude salts	—	—	—	20
Wintershall A.G. group	Neuhof-Ellers, Hessen	1956	—	X	—	X	X	—	175
	Wintershall-Herfa-Neurode, Hessen	1903	X	—	—	X	X	—	525
	Bergmannssegen-Hugo, Niedersachsen	1900–10	X	—	—	X	X	—	160
	Siegfried-Giesen, Niedersachsen	1906	X	—	—	X	—	—	140
	Niedersachsen-Riedel,	1900–10	X	—	—	—	X	X	150
	Buggingen, Baden-Wurttemberg	1915	X	—	—	X	X	—	120
Kalie Chemie A.G.	Friedrichshall, Niedersachsen	1930–40	—	X	—	X	X	—	160
	Ronnenberg, Niedersachsen	1905	—	X	—	—	X	X	360
								Total West Germany	2,250
ITALY									
Industria Salti Potassici Affini I.S.	Santa Caterina, Caltanissetta	1960	X	X	X	—	—	—	35
	San Cataldo - Palo, Caltanissetta	1960	X	—	X	—	—	—	125
	Pasquasia - Corvilla, Enna	1964	—	X	—	X	X	—	100
								Total Italy	260
SPAIN									
Minas de Potasa de Suria S.A.	Suria, Catalonia	1926	—	X	—	X	X	—	150
Union Espanola de Explosives S.A.	Cardona, Catalonia	1930	X	X	—	X	X	X	90
	Balsareny, Catalonia	1948	X	—	—	X	X	—	40
Potasas Ibericas S.A.	Sallent, Catalonia	1932	X	X	—	X	X	—	60
Potasas de Navarra	Pamplona, Navarra	1963	X	X	—	—	X	X	300
								Total Spain	640

Cont'd

X denotes process and product
XX denotes main process and product

Company or Operating Name	Mine Name and/or Plant Location	Initial Production	Processing Methods: Crystallization	Processing Methods: Flotation	Principal Products: K_2SO_4 and/or $K_2Mg_2(SO_4)_3$	Principal Products: KCl 40-50% K_2O	Principal Products: KCl 60% K_2O	Principal Products: KCl 62% K_2O	Annual Capacity Thousand metric tons K_2O equiv.
EASTERN EUROPE AND USSR									
GERMANY, EAST									
V.E.B. Kaliwerk Stassfurt	Stassfurt, Halle	1860–70	X	—	X	X	—	—	30
	Bartenstedt, Magdeburg	1870–80	—	—	crude salts		—	—	20
V.E.B. Kaliwerk Bernburg	Bernburg, Halle	1889	X	—	X	X	—	—	50
V.E.B. Kalikombinat Werra (4 mines & 3 plants)	Unterbreizbach-Merkers-Dorndorf, Suhl	1900-10	X	—	X	X	X	—	950
V.E.B. Kaliwerk Deutschland	Teutschenthal, Halle	1907	X	—	—	—	X	—	35
V.E.B. Kaliwerk Heinrich Rau	Rossleben, Halle	1905	—	X	X	X	—	—	250
V.E.B. Kaliwerk Glückauf	Sondershausen, Erfurt	1895	X	—	—	X	—	—	175
V.E.B. Kaliwerk Volkenroda	Muhlhausen, Erfurt	1909	X	—	X	—	X	—	80
V.E.B. Kaliwerk Karl Marx	Sollstedt, Erfurt	1905	X	—	—	X	X	X	145
V.E.B. Kaliwerk Karl Liebknecht	Bleicheroda, Erfurt	1902	X	—	—	X	—	—	175
V.E.B. Kaliwerk Thomas-Munzer	Bischofferode, Erfurt	1915	X	—	X	X	—	—	300
POLAND	Klodawa, central Poland	1968	X	—	—	X	—	—	Total East Germany 2,210 25
U.S.S.R.									
Ukrainian Potash Combine	Kalush, Ukraina	1920	—	X	X	X	X	—	40
	Stebnik, Ukraina	1923	—	X	X	—	—	—	40
	Dombrovi, Ukraina	1967	—	X	X	—	—	—	200
Solikamsk Potash Combine	Solikamsk, Perm	1932	X	—	X	X	X	—	640
Berezhniki Potash Combine # 1	Berezhniki, Perm	1933	X	X	X	X	X	X	800
# 2	Berezhniki, Perm	1969	X	XX	—	X	X	—	800
Soligorsk Mining and Chemical Combine # 1	Soligorsk, Byelorussia	1963	—	X	—	X	X	—	1,050
# 2	Soligorsk, Byelorussia	1965	—	X	—	X	X	—	700
# 3	Soligorsk, Byelorussia	1969	—	X	—	X	X	—	700
ASIA									
ISRAEL									
Dead Sea Works, Ltd.	old plant, Sedom, Israel	1930–40	—	X	—	—	X	—	120
	new plant, Sedom, Israel	1964	X	—	—	—	XX	X	600
CHINA, MAINLAND	Lake Cha-erh-ham, Tsinghai	1959							Total Israel 720 80
AFRICA									
CONGO (BRAZZAVILLE)									
Compagnie des Potasses du Congo	Saint Paul, Congo	1969	—	X	—	—	X	—	500
								WORLD TOTAL	23,340

SUMMARY OF WORLD POTASH MINES UNDER CONSTRUCTION, JANUARY 1970

CANADA									
Hudson Bay Mining & Smelting Co. Ltd.	Rocanville, Saskatchewan	1970	X	XX	—	—	X	X	665
UNITED STATES									
Great Salt Lake Minerals & Chemical Corp.	Great Salt Lake, Utah	1971	X	—	X	—	—	—	110
BRITAIN									
Cleveland Potash Ltd.	Staithes, Yorkshire	1973	X	XX	—	—	X	X	600
FRANCE									
Mines de Potasse d'Alsace S.A.	Amelie, Alsace	1972			Expanding capacity to 600,000 tons annually				
	Marie-Louise	1972			900,000 " " "				
(upon completion of these expansions, the Anna-Fernand, Bollwiller-Rodolphe-Enisheim and Joseph-Else plants are to be closed)									
ITALY									
Industria Salti Potassici e Affini IS	Pasquasia-Corvilla, Enna	1971	X	—	X	—	—	—	115
Montecatini Edison S.p.A.	Racalmuto, Agrigento	1971	X	—	X	—	—	—	100
SPAIN									
Potasas de Navarra	Pamplona, Navarra	1971	X	—	X	—	—	—	300
EAST GERMANY									
V.E.B. Kaliwerk Magdeburg		1972							
U.S.S.R.									
Berezhniki Potash Combine # 2 (2nd section)	Berezhniki, Perm	1970	—	X	—	X	X	X	700
Soligorsk Mining and Chemical Combine # 3 (2nd section)	Soligorsk, Byelorussia	1970	—	X	—	X	X	X	700
								Total Under Construction	3,290

WORLD POTASH PRODUCTION AND EXPORTS, 1963/64 and 1968/69
(thousand metric tons K_2O equivalent)

Country and Area	1963/64* Production	1963/64* Exports	1963/64* Principal Markets: First	1963/64* Principal Markets: Second	1968/69* Production	1968/69* Exports	1968/69* Principal Markets: First	1968/69* Principal Markets: Second
			(% of Exports)				(% of Exports)	
NORTH AMERICA								
Canada	680	580	U.S.A.(75)	Japan(25)	2,800	2,377	U.S.A.(68)	Japan(11)
United States	2,508	477	Japan(45)	N.Zeal.(10)	2,576	738	Japan(25)	S.Korea(10)
Sub-total	3,188	1,057	..	..	5,376	3,115	..	..
SOUTH AMERICA								
Chile	27	13	U.S.A.(75)	..	16	8	..	..
WESTERN EUROPE								
France	1,823	873	Britain(12)	Belux(10)	1,770	771	Belux(12)	Britain(11)
Germany, West	2,012	932	Britain(18)	Denmark(15)	2,188	1,261	Belux(10)	Nether.(9)
Italy	136	88	Japan(20)	U.S.A.(20)	184	109	Cuba(18)	U.S.A.(8)
Spain	236	153	Norway(25)	Britain (18)	388	383	Poland(18)	Norway(13)
Sub-total	4,207	2,046	..	..	4,730	2,524	..	..
EASTERN EUROPE AND U.S.S.R.								
Germany, East	1,845	1,161	Poland(25)	Czecho.(22)	2,293	1,660	Poland(30)	Czecho(22)
Poland	—	—	—	—	10e	—	—	—
U.S.S.R.	1,400	413	Finland(10)	Yugosl.(10)	3,120	716	Japan(16)	Hungary(11)
Sub-total	3,245	1,574	..	..	5,423	2,376	..	..
ASIA								
China, Mainland	60e	—	—	—	75e	—	—	—
Israel	123	138	Japan(25)	Italy(20)	344	360	Japan(20)	U.S.A.(15)
Sub-total	183	138	..	..	419	..	..	..
AFRICA								
Congo (Brazzaville)	—	—	—	—	10e	—	—	—
WORLD TOTAL	10,850	4,828	..	..	15,974	8,383	..	..

WORLD POTASH IMPORTS AND CONSUMPTION, 1963/64 and 1968/69
(thousand metric tons K_2O equivalent)

Country and Area	1963/64* Consumption**	1963/64* Imports	1963/64* Principal Suppliers: First	1963/64* Principal Suppliers: Second	1968/69* Consumption**	1968/69* Imports	1968/69* Principal Suppliers: First	1968/69* Principal Suppliers: Second
			(% of Imports)				(% of Imports)	
NORTH AND CENTRAL AMERICA								
Canada	110	53	U.S.A.(65)	France(16)	182	22	U.S.A.(86)	W.Germ.(10)
Cuba	45	50	U.S.S.R.(50)	Spain(30)	150	148	W.Germ.(40)	U.S.S.R.(30)
Mexico	10	10	U.S.A.(100)	—	40	36	U.S.A.(90)	—
United States	2,476	627	Canada(64)	France(20)	3,796	1,740	Canada(52)	W.Germ.(4)
Others	37	45	U.S.A.(50)	..	93	87	U.S.A.(50)	..
Sub-total	2,678	785	..	..	4,261	2,033	..	..
SOUTH AMERICA								
Brazil	92	92	W.Germ.(40)	France(40)	184	207	U.S.A.(35)	W.Germ.(25)
Chile	7	4	U.S.A.(100)	—	10	22	..	..
Colombia	43	29	U.S.A.(75)	—	45	34	Spain(65)	U.S.A.(35)
Others	34	23	U.S.A.(50)	..	61	49	..	..
Sub-total	176	148	..	..	300	312	..	..
EUROPEAN ECONOMIC COMMUNITY								
Belgium-Luxembourgt	194	263	France(50)	W.Germ.(25)	181	130	W.Germ.(30)	France(20)
France	621	25	W.Germ.(60)	..	1,173	120e	Israel(45)	W.Germ.(30)
Germany, West	1,125	19	France(90)	—	1 046	68	Canada(60)	France(30)
Italy	131	175	France(22)	Israel(20)	177	152	Spain(20)	U.S.S.R.(18)
Netherlandst	146	182	France(33)	W.Germ.(30)	125	153	W.Germ.(26)	France(18)
Sub-total	2,517	664	..	..	2,702	623	..	..
REST OF WESTERN EUROPE								
Austria	132	143	E.Germ.(50)	W.Germ.(25)	143	139	E.Germ.(50)	W.Germ.(25)
Britainf	449	457	France(30)	E.Germ.(30)	488	511	E.Germ.(25)	Canada(24)
Denmark	175	171	W.Germ.(65)	E.Germ.(25)	181	146	W.Germ.(65)	E.Germ.(25)
Finland	92	97	E.Germ.(45)	U.S.S.R.(40)	117	126	E.Germ.(43)	U.S.S.R.(28)
Ireland	87	87	France(40)	W.Germ.(35)	134	125	W.Germ.(33)	France(30)
Norwayt	53	56	Spain(50)	France(20)	60	88	Spain(60)	France(20)
Spain	100	—	—	—	162	22	—	—
Sweden	93	92	E.Germ.(33)	W.Germ.(30)	126	109	Canada(28)	E.Germ.(20)
Switzerland	49	49	France(60)	W.Germ.(30)	60	61	France(60)	W.Germ.(30)
Others	22	22	Spain(90)	—	24	28	Spain(90)	—
Sub-total	1,250	1,172	..	..	1,495	1,355	..	..
EASTERN EUROPE AND U.S.S.R.								
Czechoslovakia	275	253	E.Germ.(80)	U.S.S.R.(16)	468	493	E.Germ.(70)	U.S.S.R.(20)
Germany, East	543	—	—	—	650	—	—	—
Hungary	30	44	E.Germ.(50)	U.S.S.R.(45)	148	145	E.Germ.(40)	U.S.S.R.(40)
Poland	361	336	E.Germ.(70)	U.S.S.R.(15)	897	902	E.Germ.(60)	W.Germ.(16)
Yugoslavia	143	154	U.S.S.R.(35)	E.Germ.(35)	192	67	U.S.S.R.(45)	E.Germ.(45)
Others	37	31	..	..	73	86	U.S.S.R.(50)	..
U.S.S.R.	901	—	..	..	2,210	4	..	..
Sub-total	2,290	818	..	..	4,628	1,697	..	..
ASIA								
Ceylon	33	33	France(50)	W.Germ.(40)	44	57	W.Germ.(50)	France(20)
China, Mainland	60e	—	—	—	104e	29	Italy(25)	—
Taiwan	39	39	W.Germ.(60)	U.S.A.(30)	62	60	U.S.A.(65)	Canada(30)
India	50	50	W.Germ.(35)	W.Germ.(30)	164	140	France(18)	W.Germ.(16)
Japanr	598	616	U.S.A.(33)	U.S.S.R.(22)	696	736	Canada(40)	U.S.A.(27)
Korea, South	29	35	U.S.A.(95)	—	71	144	U.S.A.(65)	Canada(35)
Malaysia	14	14	..	..	19	39	..	..
Philippines	35	35	U.S.A.(30)	W.Germ.(25)	40	32	U.S.A.(40)	France(30)
Others	34	34	..	..	184	169	U.S.A.(20)	..
Sub-total	892	850	..	..	1,384	1,406	..	..
AFRICA								
Republic of South Africa	45	44	W.Germ.(30)	U.S.A.(25)	96	103	W.Germ.(40)	Spain(25)
Others	84	81	W.Germ.(50)	..	144	118	Spain(30)	..
Sub-total	129	125	..	..	240	221	..	..
OCEANIA								
Australia	60	60	U.S.A.(50)	W.Germ.(35)	90	85	U.S.A.(90)	Canada(10)
New Zealand	68	68	U.S.A.(40)	France(30)	84	100	Canada(60)	U.S.A.(20)
Others	—	—	—	—	2	2	—	—
Sub-total	128	128	..	..	176	187	..	..
WORLD TOTAL	10,060	4,696	..	..	15,186	7,834	..	..

*Fertilizer year July to June for most countries, except Britain, France and Sweden May to June, and Eastern Europe and USSR calendar year 1963 and 1968; preliminary figures for 1968/69; **Potash fertilizer consumption only; †Net imports.

e Estimate; —Nil or negligible; .. Not applicable or not available.

ABBREVIATIONS

USA, United States; USSR, Union of Soviet Socialist Republic; W.Germ., West Germany; E.Germ., East Germany; Belux, Belgium and Luxembourg; N.Zeal., New Zealand; Nether., Netherlands; Czecho., Czechoslovakia; Yugosl., Yugoslavia.

Data on world potash mines, production, trade and consumption were compiled mainly from publications of: Food and Agriculture Organization of the United Nations, Rome; The British Sulphur Corporation Ltd., London; Organization for Economic Co-operation and Development; United States Bureau of Mines, Washington; and Department of Energy, Mines and Resources and Dominion Bureau of Statistics, Ottawa.

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