THE MINERAL INDUSTRY OF

NORWAY

By Harold R. Newman

Since the discovery of North Sea petroleum in the late 1960's, petroleum production has become the most important mineral industry activity in Norway. (*See table 1.*) It has been the largest mineral contributor to the gross national product (GNP), accounting for 15.6% GNP and representing about 38% of total export earnings in 1997.

The Norwegian economy remained dependent on foreign trade from which more than one-half of the GNP was derived. About 75% of the minerals consumed were imported. Petroleum was the most significant mineral commodity export, followed by metals and industrial minerals.

Sand, gravel, and aggregate deposits were some of Norway's most important mineral materials. The Norwegian Geological Survey (NGU) established a Gravel and Aggregate Database containing information on all the country's deposits of sand, gravel, and aggregates. This data base contains information on each deposit's location, composition, volume, quality, and operating status (Norwegian Geological Survey, 1997, Mineral resources, accessed May 1998, at URL http://www.ngu.no/eng/fagomraader/mineralres.htm).

Production of metallic ores has fallen gradually for many years as existing mines were being depleted and exhausted mines were not being replaced. This decline of metallic mineral output has been partially offset by increased production of industrial minerals.

The Norwegian Government's involvement in the mineral industry remained substantial, especially in offshore hydrocarbon production. Through state-owned Den Norske Stats Oljeselskap A/S, the Government continued to control all hydrocarbon production and refining. The rest of the mineral industry was dominated by Elkem A/S and Norsk Hydro A/S. (See table 2.)

The Government of Norway and Norsk Hydro signed a 50-year agreement that allows the company to make use of the water, considered to be state property, in four of its hydropower plants, in return for about \$200 million. These four plants produce about 3 billion kilowatt hours per year of electricity. If approved by the Norwegian Parliament, the agreement will provide some predictability for long-term power costs and will facilitate Norsk Hydro's expansion plan to its Årdal aluminum smelter's capacity by 50,000 metric tons per year (t/yr) to more than 240,000 t/yr.

The first phase of the expansion, expected to take a year and to cost an estimated \$42 million, would involve installing 26 new reduction cells and a new gas cleaning system and raising rectifier capacity in the existing potroom. The second phase, expected to take from 2 to 3 years and to cost an estimated \$146 million, would replace the older Søderberg technology with prebaked anode cell technology in a second potroom (Norsk Hydro, July 1997, 3rd quarter report, accessed August 11, 1997, at URL

http://www.hydro.com/konsem/finance/ quarterly/1997/eng/ lm/html).

Elkem Aluminum ANS operated two primary aluminum smelters with a combined capacity of about 250,000 t/yr in Farsund and Mosjoen. Elkem has begun a project to reduce air and water pollution at an estimated cost of \$36 million at its Farsund plant. This undertaking was scheduled to be completed by 1998.

Two gold exploration projects were begun by Viking Gold Corp. and Consolidated Logan Mines Ltd. Viking was exploring the Bindal Gold project, which includes three properties, Kolsvik, Reppen, and Royskattendalen. The deposit occurs in early Silurian-age rocks of the Caledonides and is located 300 kilometers (km) north of Trondheim. The project comprises 185 claims covering 4,630 hectares. To date 9 exploration adits and 49 diamond drill holes, for a total of 4,048 meters have been completed. Viking has indicated estimated resources of 2 million tons grading 8 grams per ton (g/t) at Kolsvik and 800,000 metric tons (t) grading 6 g/t at Reppen. Royskattdalen is considered to be an exploration target in a similar host environment (Viking Gold Corp., 1997, news release, accessed August 1997 at URL http://www.infomine.com/vikinggold/bindal.html).

The Kells Creek gold prospect of Consolidated Logan Mines Ltd. consists of 12 claims covering about 3.5 square kilometers, near Oppdal, within Precambrian gneisses of the Highlands of central Norway. There was interest in the area after several blocks of mineralized gneiss containing chalcopyrite and copper stains, which proved to carry gold values, were located in 1992.

The geologic history of the area has been interpreted as providing a setting for precious- and base-metal mineralization. A hydrothermal system deposited ores and was subsequently metamorphosed. The system deposited copper, followed by gold, in faults, leach cavities, and veins. The Caledonian Orogeny likely created open-space fractures. Remobilization and introduction of gold into brecciated rock may have taken place during metamorphism.

Logan has completed diamond drilling of 14 geophysical anomalies that had been outlined by the NGU. The company reported the discovery of minor gold values. The next stage of exploration at Kells Crek will focus on four drift-covered zones through a program of overburden drilling, hand trenching, and soil surveying (Consolidated Logan Mines Ltd., 1997, news release, accessed August 14, 1997, at URL http://www.infomines.com/logan/kells html).

A/S Sydvaranger was a major producer of iron ore, with most of the production exported to Germany and the United Kingdom. The Rana Gruber Mine was preparing for low-cost underground mining as the open pit areas were expected to be exhausted in about 2 years.

NGU has analyzed a 2-millimeter, 0.07-carat diamond that was found in stream sediments in Finnmark County in northern Norway. This was the first verified diamond discovery in Norway and confirmed geologic theories that diamonds could exist in the Finnmark County area. An exploration company, Mallmikaivos Oy, is searching for diamonds in Finland. It is a subsidiary of the Australian company Ashton Mining Ltd., which has exploration rights in Finnmark County (Norwegian Geological Survey, January 1997, Diamond discovered in Finmark, accessed August 14, 1997, at URL http://www.ngu.no/NGU/eng/presseng/diamt .htm).

Titania A/S was one of two hardrock ilmenite producers in the world. The mine in Tellnes averaged about 2.5 Mt of crude ore from which 700,000 to 850,000 t of concentrate was produced with a 44.7% titanium oxide content and small amounts of magnetite and pyrite concentrate.

Some of the world's largest resources of high-quality olivine are in the Sunnmøre-Nordfjord area on the southwestern coast of Norway. With plants at Åheim and Stranda, A/S Olivin was the world's leading producer of olivine products. The 2-millionmetric-ton-per-year capacity open pit mine was 4 km from the plant and the port. The olivine ore was transported in a tunnel by conveyor belt to the processing plant.

Production of dimension stone has been steadily increasing as the industry, comprised of many small firms, has been expanding. The most sought after stone was larvikite, a syenite with a feldspar lamellar structure that gives it a special luster. Also, banded dolomite from the Fauske area was highly regarded.

Offshore hydrocarbon production was expected to remain the principal economic activity for the next several decades. Norway produced an average of about 3.02 million barrels per day of crude oil and was ranked seventh in world production. The country maintained its position as the world's second largest oil-

exporting country. In 1997, 47 exploration wells, including 35 wildcats and 12 appraisal wells, were completed or temporarily abandoned on the Norwegian continental shelf. Of these, 32 were in the North Sea, and 15 were in the Norwegian Sea (Royal Ministry of Petroleum and Energy, 1998).

The Government approved the development of the Jotun Troll West Gasprovince, the Oseberg South, the Yme Gamma Southeast, and the Eldfisk water injection projects. Investment in exploration, field development, and pipeline transportation projects totaled about \$7.2 billion in 1997 (Royal Ministry of Petroleum and Energy, 1998).

To counter an anticipated decline in production during the next decade, the Government has been encouraging the discovery of new resources. Exploration has been focused on finding resources near existing infrastructures. In the coming years, greater emphasis will be placed on areas that are currently unexplored. Readily available hydroelectric power and ice-free ports facilitated the growth of energy-intensive industries, namely production of aluminum, ferroalloys, magnesium, and silicon metal.

Reference Cited

Royal Ministry of Petroleum and Energy, 1998, Norwegian petroleum activity 98: Royal Ministry of Petroleum and Energy, 144 p.

Major Sources of Information

Norwegian Geological Survey P.O. Box 3006 Lade 7002 Tronheim, Norway Royal Ministry of Petroleum and Energy P.O. Box 8148 Dep 0033 Oslo, Norway

TABLE 1 NORWAY: PRODUCTION OF MINERAL COMMODITIES 1/

(Metric tons unless otherwise specified)

Commodity	1993	1994	1995	1996	1997 e/
METALS	1770		1,,,0	1770	1777 0
Aluminum:	_				
Primary	887.461	856.967	846 794	863.002 r/	918.558.2/
Secondary	51.987	47.994	55.685	46.978	59.000
Cadmium smelter	213	288	317	274	324 2/
Cobalt	2.414	2.823	2.804	3 098	3 417 2/
Copper:		2,025	2,001	5,070	5,117 2
Mine output:	-				
Concentrate	- 36.002	31 116	28 561	29,000	28,000
Cu content	- <u>8 696</u>	7 412	6 799	7 400 r/	6 671 2/
Metal primary and secondary:	_ 0,070	7,112	0,777	7,100 17	0,071 2
Smelter	- 37 205	39 516	31 146	35 300	32 639 2/
Refined	- 37,200	39,400	34 322	28 526	26,000
Gold e/ kilogram		200			20,000
Iron and steel:		200			
Iron ore and concentrate:	_				
Gross weight thousand ton	<u> </u>	2 364	2.012	1 705 2/	1 700
	<u>5</u> 2,102 1 532	1,650	1 3/8	1,118 2/	1,700
Metal:	<u>.</u> 1,552	1,050	1,540	1,110 2/	1,100
Pig iron e/	73.2/	70	70	70	70
Eerroallovs:		70	70	70	70
		120	1/18 r/	110	145
Terromanganese do	<u>.</u> 30	249	213	215	215
Ferrorilicomanganese	$\frac{1}{220}$	107	215 210 r/	210 r/a/	215
Eerrosilicon (75% basis)	<u> </u>	157	210 1/	210 1/ e/ 462	470
Silicon metal	<u> </u>	450	101	402	470
Other e/	<u>, 01</u>	14	101	110	110
do	$\frac{14}{1020}$	1 1 2 8	1 161	1 1 1 2 r/	1 165
Steel crude	505	456	503	511	510
Semimanufactures rolled e/	<u>.</u> 303	300	300	300	300
Lead mine output:	290	500	500	300	500
Concentrate	- 2 224	5.052	2 505	2 600	2 600
Dh content	- 3,224	2,955	2,303	2,000	3,000
Po content	- 1,098	5,090	1,402 1/	2,080 1/	3,000
Magnesium, primary	27,500	27,055	28,000 8/	28,000	28,000
Mine output	-				
	21 710	26 470	24 027	22 000 r/a/	20,000
	2 162	20,470	24,927	23,000 1/ 6/	20,000
Matal primary		5,526 1/	52 227	5,155 1/	2,434 2/
Distingum group motols of 2/		1,933	1 500	1 200	1 000
Titanium-group metals e/ 5/ Kilogram	<u>s</u> 1,500	1,500	1,500	1,200	1,000
Inamum.	- 712	826	022	750 -/	750
TiO2 content	<u>s</u> /15	820	833	750 e/	750
	<u> </u>	520	525 e/	390	390
Zilic.	_				
	- 27.460	20 117	18.005	10,000	0.000
	_ 27,409	50,117	18,995	19,000	9,000
Zn content	_ 14,327	15,869	9,877	9,880	4,500
Metal, primary	129,192	131,921	121,576	134,900 1/	137,400
INDUSTRIAL MINERALS	- 1.004	1 4 4 4	1 (12	1 ((1 -	1 700
Cement, nydraulic thousand ton	<u>s</u> 1,004	1,444	1,013	1,004 1/	1,700
Feldspar	/5,000 e/	62,905	15,397	/6,000	/5,000
Graphite e/	_ 6,500	5,566	2,588	2,600	2,600
Lime, hydrated, and quicklime e/ thousand ton	<u>s</u> 100	100	100	100	100
Mica, flake e/	3,000	3,000	3,000	2,500	2,500
Nepheline syenite thousand ton	<u>s</u> 350 e/	279	294	300	300
Nitrogen, N content of ammonia do	<u>.</u> 315	271	289 r/	295 r/	279 2/
Olivine sand do	<u>.</u> 2,955	3,109	3,517	3,600	3,600
Pyrite do	<u>92</u>	1	5	6	5
Stone, crushed:					
Dolomite do	<u>.</u> 650	743	797	800	800
Limestone do	<u>.</u> 3,500 e/	4,357	4,675	4,600	4,500
Quartz and quartzite do	o. 900	891	963	960	1,000

TABLE 1--Continued NORWAY: PRODUCTION OF MINERAL COMMODITIES 1/

(Metric tons unless otherwise specified)

Commodi	ty	1993	1994	1995	1996	1997 e/
INDUSTRIAL MINERA	ALSContinued					
Sulfur: e/						
Pyrite, S content	thousand tons	44	1			
Byproduct of:						
Metallurgy	do.	75	75	80	80	60
Petroleum	do.	15	15	20	20	50
Total sulfur	do.	134	91	100	100	110
Talc, soapstone, steatite e/	do.	50	28	30	28 r/	28
MINERAL FUELS AND REL	ATED MATERIALS					
Coal, all grades	thousand tons	266	301	343	261	260
Gas, natural:						
Gross	million cubic meters	28,867	30,833	47,200	59,400	70,300
Marketed 4/	do.	28,500	26,800	27,800	37,400	42,600
Peat: e/						
For agricultural use	do.	30	30	30	30	30
For fuel use	do.	1	1 r/	1 r/	1 r/	1
Petroleum:						
Crude 5/	thousand 42-gallon barrels	855,643	956,369	979,104	1,104,096	1,105,584 2/
Natural gas liquids e/	do.	25,342 2/	24,500	40,560	41,600	42,000
Refinery products:						
Naphtha e/	do.	4,000	20,000	22,100	26,350	26,000
Gasoline	do.	28,680	27,149	24,470	25,000	25,000
Kerosene	do.	8,499	9,068	8,378	9,000	9,000
Distillate fuel oil	do.	48,515	50,832	45,140	45,000	45,000
Residual fuel oil	do.	10,700	11,255	12,361	12,000	12,000
Other e/	do.	4,000	4,000	4,000	4,000	4,000
Refinery fuel and losses e/	do.	4,000	4,000	4,000	4,000	4,000
Total e/	do.	108,394	126,304	120,449	125,350	125,000

e/ Estimated. r/ Revised.

1/ Table includes data available through July 1998.

2/ Reported figure.

3/ Data represent exports.

4/ Reported as total methane sales.

5/ Excluding natural gas liquids.

TABLE 2 NORWAY: STRUCTURE OF THE MINERAL INDUSTRY IN 1997

(Thousand metric tons unless otherwise specified)

	Major operating companies		Annual
Commodity	and major equity owners	Location of main facilities	capacity
Aluminum	Hydro Aluminium ANS (Norsk Hydro A/S 70%)	Smelters at Årdal, Hoyanger, Karmoy, and Sunndalsora	600
 Do.	Elkem Aluminium (Elkem A/S 50% and Alcoa 50%)	Smelters at Farsund and Mosioen	250
$\frac{1}{1}$	Sor-Norge Aluminium A/S (Alusuisse 50% and		
	Hydro Aluminium 49%)	Smelter at Odda	50
Cadmium	Norzink AS (Boliden AB 50% and Rio Tinto Minerals		
	Development Ltd.)	Smelter at Eitrheimsneset	0.3
Cement	Norcem A/S	Plants at Brevik and Kjopsvik	2,150
Coal	Store Norske Spitsbergen Kulkompani A/S	Mines at Longyearbyen and Svea	450
Cobalt	Nikkelverk A/S (Falconbridge Nickel Mines Ltd., 100%)	Smelter at Kristiansand	3
Copper:	_		
Ore, Cu content	Grong Guber A/S (Norsulfid A/S, 100%)	Mines at Royrvik and Gjersvik	8
Do.	Nikkel og Olivin AS (Norsulfid A/S, 100%)	Mine at Narvik	1
Metal	Nikkelverk A/S (Falconbridge Nickel Ltd., 100%)	Smelter at Kristiansand	40
Dolomite	Franzefoss Bruk A/S	Mine at Ballagen	350
Do.	Norwegian Holding A/S	Mines at Hammerfall, Logavlen, and Kvitblikk	500
Feldspar	Franzefoss Bruk A/S	Mine at Lillesand	100
Ferroalloys	Elkem Rana (Elkem A/S, 100%)	Ferrochromium plant at Mo i Rana	140
Do .	Elkem Sauda (Elkem A/S, 51%, and BHP, 49%)	Ferromanganese plant at Sauda	250
Do.	Elkem PEA (Elkem A/S, 51%, and BHP, 49%)	Ferromanganese plant at Porsgrunn	200
Do.	Elkem Salten (Elkem A/S, 100%)	Ferrosilicon plant at Straumen	85
Do.	Elkem Bjolvefossen (Elkem A/S, 100%)	Ferrosilicon plant at Alvik	60
Do.	Elkem Thamshavn (Elkem A/S, 100%)	Ferrosilicon plant at Orkanger	60
Do .	Finnfjord Smelterverk, Rana Metal (Fesil 100%)	Ferrosilicon plant at Mo i Rana	140
Do.	A/S Hafslung Metal (Fesil 100%)	Ferrosilicon plant at Sarpsborg	75
Do.	Ila og Lilleby Smelterverk (Fesil 100%)	Ferrosilicon plant at Finnsnes	60
Do.	Oye Smelterverk (Tinfos Jernverk A/S, 100%)	Silicomanganese plant at Kvinesdal	235
Iron, metal	Ulstein Jernstoperi A/S	Hordvikneset	10
Iron ore	Rana Gruber A/S (Norsk Jernverk Holding A/S, 100%)	Mine at Mo i Rana	2.000
Do.	A/S Sydvaranger (Government, 87,45%)	Biornevatn Mine at Kirkenes	1.500
Lead ore. Pb content	A/S Bleikvassli Gruber (A/S Sydvaranger, 100%)	Mine at Bleikvassli	2
Lime	Hylla Kalkverk (Nikolai Bruch A/S 100%)	Verdal/Trondheim Mine and plant	80
	A/S Norsk Jernverk	Plant at Mo i Rana	48
<u></u> Do	Ardal og Sunndal Verk A/S	More og Romsdal Mine at Surnadal	20
 	Breivik Kalkverk A/S	Alesund Mine at Larsnes	20
 	Mioendalen Kalkfabrik	Plant at Asen/Drammen	7
Limestone	Norcem A/S	Dalen Biorntyedt and Kionsvik Mines	1 600
Do	Vardelskalk A/S (Franzefoss Burk A/S 100%)	Sandvika Mine	800
<u></u> Do	Breivik Klakverk A/S	Visnes and Glaerum Mines	500
Magnesium	Norsk Hydro A/S (Government 51%)	Plant at Porsgrupp	35
Natural gas million cubic meters	Den Norske Stats Olieselskan A/S	Gama Gullfaks Sleinner Ost and Statford Fields	12 270
Do	Phillips Petroleum Company Norway	Ekofisk Field	9 900
 	Elf Detroleum Norge A/S	Erigg Heimdel and Oct Erigg Fields	5 750
<u></u> Do	Norsk Hydro Produksion A/S	Troll_Oseberg Field	2 600
<u></u>	RD Petroleum Development of Norway	Gyda and Illa Fields	2,000
 	Ease Nerre as	Odin Field	1,040
 	Amooo Norrugu A/S	Und and Valhall Fields	1,000
Do.	Allioco Noi way A/S	Mine at Stierman	250
Niekel	North Cape Mineral A/S (Uninnin Corp., 84%)	Mille at Stjernoy	
	- Nildral on Olivin Λ/S (Normalf 4 Λ/S 1000()	Mine at Nowilr	2
Ore, NI content	INIKKEI OG UIIVIN A/S (INOTSUITID A/S, 100%)	IVIIIIe at INATVIK	3
D0.	Intania A/S (Kronos Norge A/S, 100%)	Ivine at Tellnes	0.5
	Nikkeiverk A/S (Faiconbridge Nickel Mines Ltd., 100%)	Smelter at Kristiansand	60
Olivine	A/S Olivin	Aneim Mine at Sunnmore	2,500
 	Franzetoss Bruk A/S	Letdal Mine at Bryggja	500
Do.	Idustrimineraler A/S	Stranda Mine at Nordfjord	300

TABLE 2--Continued NORWAY: STRUCTURE OF THE MINERAL INDUSTRY FOR 1997

(Thousand metric tons unless otherwise specified)

		Major operating companies		Annual
	Commodity	and major equity owners	Location of main facilities	capacity
Petroleum	barrels per day	Den Norske Stats Oljeselskap A/S	Gullfaks, Statfjord, Tommeliten, and Veslefrikk Fields	1,069,300
Do.		Norsk Hydro Produksjon A/S	Brage, Mime, and Oseberg Fields	566,200
Do.		Phillips Petroleum Company Norway	Ekofisk Field	237,500
Do.		Saga Petroleum A/S	Snorre Field	170,000
Do.		BP Petroleum Development of Norway	Gyda and Ula Fields	155,000
Do.		A/S Norske Shell	Draugen Field	90,000
Pyrite		Folldal Verk A/S (Norsulfid A/S 100%)	Mine at Hjerkinn	10
Quartzite		Elkem Tana (Elkem A/S 100%)	Mine at Tana	540
Do.		Elkem Marnes (Elkem A/S 100%)	Mine at Sandhornoy	200
Do.		Vatnet Kvarts A/S	Mine at Nordland	150
Do.		Snekkevik Kvartsbrudd	Mine at Kragero	110
Steel		Fundia AB (Norsk Jenverk 50% and Rataruukki 50%)	Plants at Christiania, Spigerverk, Mandal Stal, and Moi Rana	600
Talc		A/S Norwegian Talc (Pluess-Staufer AG 51%)	Mine/plant at Altermark/Knarrevik and Framfjord	90
Do.		Kvam Minerals A/S	Mine/plant at Kvam	6
Titanium, o	concentrate	Titania A/S (Kronos Norge A/S 100%)	Mine at Tellnes	800
Zinc:				
Ore, Zn	content	Grong Guber A/S (Norsulfid A/S 100%)	Mines at Royrvik and Gjersvik	10
Do.		A/S Bleikvassli Gruber (A/S Sydvaranger 100%)	Mine at Bleikvassli	10
Metal		Norzik A/S (Boliden Mineral AB 50%)	Smelter at Eitrheimsneset	137

TABLE 3 NORWAY: EXPORTS OF MINERAL COMMODITIES IN 1996 1/

⁽Metric tons unless otherwise specified)

		Destinations		
Commodity	Total	United		
		States	Other (principal)	
METALS			* * '	
Akali and akaline-earth metals:				
Alkali metals value, thousands	\$1		All to Finland.	
Alkaline-earth metals	11	9	France 1; Switzerland 1.	
Aluminum:				
Ore and concentrate	2,500		All to Sweden.	
Oxides and hydroxides	93		France 58; Sweden 28; Czech Republic 7.	
Metal including alloys:				
Scrap	19,443		Germany 7,218; Netherlands 4,069; United Kingdom 2,236.	
Unwrought	875,679	227	Germany 267,136; France 120,633; United Kingdom 102.588.	
Semimanufactures	196,459	3,945	Germany 43,338; United Kingdom 31,584; France 25,397.	
Beryllium, metal including alloys, all forms value, thousands	\$21		Switzerland \$10; Maldives \$6; Sweden \$2.	
Cadmium, metal including alloys, all forms	172		Belgium-Luxembourg 120; Sweden 40; Germany 10.	
Chromium:				
Oxides and hydroxides	12		Turkey 9; Singapore 2; Saudi Arabia 1.	
Metal including alloys, all forms	1		All to Sweden.	
Cobalt, metal including alloys, all forms	3,149	1,521	Netherlands 367; Belgium-Luxembourg 225; United Kingdom 151.	
Copper:				
Ore and concentrate	35,024		All to Finland.	
Metal including alloys:				
Scrap	10,998	394	Sweden 2,689; Germany 2,289; Hong Kong 2,036.	
Unwrought	35,185	(2/)	United Kingdom 22,709; Sweden 9,293; France 1,590.	
Semimanufactures	5,002	(2/)	Denmark 2,120; Sweden 1,071; Germany 735.	
Gold:				
Waste and sweepings value, thousands	\$16,794		Germany \$16,127; Switzerland \$484; Sweden \$79.	
Metal including alloys, unwrought and partly wrought kilograms	1,560		United Kingdom 573; Sweden 506; Finland 322.	
Iron and steel:				
Iron ore and concentrate:				
Excluding roasted pyrite	610,786		Germany 382,592; United Kingdom 102,165; Sweden 82,299.	
Pyrite, roasted	155,982		Germany 98,506; Denmark 52,618; Sweden 4,857.	
Metal: Scrap	145,081		United Kingdom 53,137; Germany 37,687; Netherlands 23,977.	
Pig iron, cast iron, related materials	700		Germany 486; Sweden 109; Chile 53.	
Ferroallovs:				
Ferrosilicomanganese	187,244	22,457	Germany 33,321; Italy 24,369; Belgium- Luxembourg 19,768.	
Ferrosilicon	414,036	69,036	Germany 89,052; Italy 41,287; United Kingdom 63,496.	
Silicon metal 3/	97,136	1,462	Germany 48,447; United Kingdom 14,619; Japan 13,744.	
Unspecified	50,097	2,121	France 25,855; Italy 5,576; United Kingdom 2,913.	
Steel, primary forms	155,172		Finland 65,151; Switzerland 42,438; Hong Kong 20,062.	
Semimanufactures:				
Flat-rolled products:				
Of iron or nonalloy steel:				
Not clad, plated, coated	44,529		Sweden 27,005; Denmark 6,039; Spain 2,843.	
See footnotes at end of table			· • ·	

TABLE 3--Continued NORWAY: EXPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

			Destinations			
Commodity		Total	United			
			States	Other (principal)		
METALSContinued				ч к /		
Iron and steelContinued:						
MetalContinued:						
SemimanufacturesContinued:						
Flat-rolled productsContinued:						
Clad, plated, coated		125,129	24,479	Sweden 35,261; United Kingdom 29,228; Netherlands 17,638		
Of alloy steel		2 527	(2/)	Germany 832: Sweden 395: United Kingdom 281		
Bars rods angles shapes sections		311.937	7 710	Sweden 51 338: United Kingdom 51 006: Finland		
Dars, rous, angres, snapes, sectors		511,757	7,710	36,844.		
Rails and accessories		3,865		Sweden 2,848; Republic of Korea 546; Italy 284.		
Wire		12,477	5	Sweden 3,504; United Kingdom 3,355; Denmark		
				1,348.		
Tubes, pipes, fittings		96,582	190	Denmark 69,014; United Kingdom 8,843; Sweden 5.277.		
Lead:				,		
Ore and concentrate		2.140		All to Germany.		
Oxides		1		All to Sweden.		
Metal including allovs:						
Scrap		9,625		United Kingdom 6,325; Sweden 2,587; Germany 443.		
Semimanufactures		174		Denmark 173; Sweden 1.		
Magnesium, metal including alloys:						
Scrap		86	86			
Semimanufactures		695		Sweden 542; United Kingdom 145; Denmark 3.		
Manganese:				-		
Oxides and hydroxides		31,001	340	United Kingdom 22,560; Sweden 5,051; Denmark 668.		
Metal including alloys, all forms		1,540	307	Germany 555; Spain 445; United Kingdom 177.		
Mercury	value, thousands	\$2		All to Switzerland.		
Molybdenum, metal including alloys, semimanufactures	do.	\$1		All to Germany.		
Nickel:				5		
Ore and concentrate		34.880		All to Finland.		
Matte and speiss		2		Germany 1.		
Metal including alloys:				5		
Scrap		294	52	Germany 242.		
Unwrought		61.030	21.828	Netherlands 15.550: Japan 7.144: Sweden 3.727.		
Semimanufactures		30		Sweden 20: United Kingdom 10		
Platinum-group metals:		20				
Waste and sweepings	value thousands	\$1		All to Republic of Korea		
Metal including alloys, unwrought and partly wrought	do	\$33,399	\$11,747	United Kingdom \$15 088: Japan \$5 050:		
notal notading anojo, anvioagni and paraj vioagni	GOT	400,077	φ11,7 17	Switzerland \$996		
Silver, metal including alloys, unwrought and partly wrought	do.	\$17.646		Sweden \$7.012: Finland \$6.917: Denmark \$2.651.		
Tin:						
Ore and concentrate		189.970	90.131	Netherlands 99.839.		
Metal including allovs:		10,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.0010110100 > >,00>1		
Scrap		25	9	Sweden 16		
Unwrought		3		Mainly to United Kingdom		
Semimanufactures		4		United Kingdom 3: Germany 1		
Titanium		· · ·				
Oxides		103	(2)	Sweden 40: Slovakia 24: Portugal 16		
Metal including alloys:		105	(27)	Streach 10, Storakia 27, 1 Ortugal 10.		
Unwrought including waste and scrap		7	3	Netherlands 4		
Semimanufactures		92	13	United Kingdom 56: Italy 7: Germany 5		
Tungsten metal including allove semimanufactures	value thousands	\$1		Germany \$2: Denmark \$1: Sweden \$1		
Zine	, and, mousands	ΨŦ		Sermany φ_2 , Denmark φ_1 , Sweden φ_1 .		
Ore and concentrate		2 200		All to Poland		
Oxides		3 656		United Kingdom 1 732: Germany 860: Australia		
CARDO		5,050		397.		

TABLE 3--Continued NORWAY: EXPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

				Destinations
Commodity		Total	United	
			States	Other (principal)
METALSContinued				
ZincContinued:				
Metal including alloys:				
Scrap		410		Unspecified Asia 214; United Kingdom 110; Netherlands 44.
Unwrought		121,410	2,002	United Kingdom 41,100; Germany 38,795; Sweden 17,161
Semimanufactures 4/		817		Germany 701; Sweden 38; Romania 33.
Zirconium:				
Ore and concentrate		4,230	2,226	United Kingdom 1,850; Netherlands 150; Italy 3.
Metal including alloys: Semimanufactures		10		Mainly to Romania.
Other:				· · · ·
Ores and concentrates		10		All to United Kingdom.
Oxides and hydroxides		918		Netherlands 616; Hungary 301; Finland 1.
Ashes and residues		6,687		France 2,592; Belgium-Luxembourg 1,744; Spain 1,501.
Base metals including alloys, all forms		31		Germany 30; France 1.
Metalloids 5/	value, thousands	\$7		Sweden \$4; France \$3.
Precious metals, n.e.s.:				
Ores and concentrates	do.	\$155		All to Sweden.
Waste and sweepings	do.	\$4,654		Germany \$2,866; Sweden \$1,296; Denmark \$428.
INDUSTRIAL MINERALS				v · · · · · ·
Abrasives, n.e.s.:				
Natural, corundum, emery, pumice, etc.		7		Mainly to Sweden.
Artificial corundum		1		Mainly to Germany.
Grinding and polishing wheels and stones		520	33	Finland 158; Sweden 117; Germany 42.
Barite and witherite		6,945		United Kingdom 4,600; Denmark 2,300; Qatar 42.
Boron, oxides and acids	value, thousands	\$2		All to Iceland.
Bromine, fluorine, iodine	value, thousands	\$31		Denmark \$25; Iceland \$6.
Clays, crude:				
Bentonite		27		Denmark 17; Egypt 6; Saudi Arabia 2.
Kaolin		46		Sweden 32; Singapore 5; Thailand 4.
Unspecified		514		Sweden 456; Germany 44; Italy 11.
Cryolite and chiolite		324		Netherlands 150; Denmark 101; United Kingdom 72
Diamond, natural, gem, not set or strung	value, thousands	\$235		Denmark \$105; Belgium-Luxembourg \$88; Germany \$24
Diatomite and other infusorial earth		272		Italy 215: Sweden 29: Denmark 15.
Feldspar		377.973		Germany 80.165: Netherlands 70.519: United
1		,		Kingdom 65,214.
Fertilizer materials:				
Crude, n.e.s.		366	51	Spain 42; Italy 41; Thailand 26.
Manufactured:				
Ammonia		18		Unspecified Europe 17; Russia 1.
Nitrogenous		120		United Kingdom 108; Finland 12.
Unspecified and mixed		2,802		Spain 2,763; Iceland 21; Sweden 15.
Gypsum and plaster		48		Lithuania 32; Poland 12; Finland 2.
Lime		28,967		Finland 22,108; Sweden 5,635; Italy 26.
Mica:				
Crude including splittings and waste		1,795		Netherlands 757; Germany 448; United Kingdom 132.
Worked including agglomerated splittings		1		All to Argentina.
Phosphates, crude		22		Mainly to Sweden.
Pigments, mineral, iron oxides and hydroxides, processed		711,060	248	Germany 651,034; Sweden 36,220; Canada 20,704.
Precious and semiprecious stones other than diamond, natural	value, thousands	\$76		Denmark \$32; Germany \$14; Belgium-
				Luxembourg \$11.
Salt and brine		5,192		Sweden 1,503; Spain 1,279; Faeroe Islands 948.

TABLE 3--Continued NORWAY: EXPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

		Destinations			
Commodity	Total	United	United		
		States	Other (principal)		
INDUSTRIAL MINERALSContinued					
Sodium compounds, n.e.s.:					
Soda ash, manufactured	22		Mainly to Belgium-Luxembourg.		
Sulfate, manufactured	36		All to United Kingdom.		
Stone, sand and gravel:					
Dimension stone:					
Crude and partly worked	892,088	702	Germany 330,307; United Kingdom 250,676; Denmark 110,229.		
Worked	26,415	(2/)	Netherlands 16,441; Sweden 5,633; Germany 1,684.		
Dolomite, chiefly refractory-grade value, thousand	ls \$1		Unspecified Europe.		
Gravel and crushed rock thousand ton	ns 8,985	148	Germany 4,007; Denmark 1,733; United Kingdom 950.		
Limestone other than dimension	63,706		Sweden 23,793; Finland 10,307; Benin 10,000.		
Quartz and quartzite	78,390		Iceland 73,956; Netherlands 2,810; Poland 745.		
Sand other than metal-bearing	3,570		Sweden 2,521; Denmark 906; Germany 99.		
Sulfur:					
Elemental:					
Crude including native and byproduct	49		Sweden 29; United Kingdom 20.		
Colloidal, precipitated, sublimed	10,264		United Kingdom 8,216; Denmark 1,120; Sweden		
Dioxide	16		All to Sri Lanka		
Talc, steatite, soapstone, pyrophyllite	35,800	8	Netherlands 11,975; United Kingdom 8,678; Germany 5 757		
Vermiculite perlite chlorite	146		Sweden 124: Netherlands 22		
Other:	110				
Crude	- 72		Finland 34: Sweden 28: Singapore 8.		
Slag and dross, not metal-bearing	86.399	1.991	Japan 28.631: Denmark 13.570: Sweden 10.800.		
MINERAL FUELS AND RELATED MATERIALS		-,,,,	······································		
Asphalt and bitumen, natural	119		Iceland 44: Denmark 28: Sweden 25.		
Carbon black	122		Singapore 61: Turkey 15: United Arab Emirates 10.		
Coal. briquets of anthracite and bituminous coal	8		All to Denmark.		
Gas, natural, gaseous thousand ton	ns 30,507		Germany 12,017; France 8,794; Belgium- Luxembourg 3 675		
Peat including briquets and litter	8,488	(2/)	Germany 5.137: Netherlands 2.151: Sweden 596.		
Petroleum:		(_,)			
Crude thousand ton	ns 136,824	12,613	United Kingdom 42,875; Netherlands 23,991; France 12,964.		
Refinery products:					
Liquefied petroleum gas do	. 3,156	298	United Kingdom 549; Belgium-Luxembourg 516; Germany 241.		
Gasoline de	o. 4,785	305	Denmark 1,004; Netherlands 624; Germany 302.		
Mineral jelly and wax	6,804	350	Sweden 5,406; Canada 174; Finland 172.		
Kerosene and jet fuel	457,488		United Kingdom 144,153; Denmark 114,035; Iceland 92,816.		
Distillate fuel oil thousand ton	as 3,097	135	Germany 732,827; United Kingdom 543,250; Netherlands 397,411.		
Lubricants	11,802	7	Denmark 8,331; Sweden 1,825; Ireland 489.		
Residual fuel oil thousand ton	ns 1,907	200	Italy 1,046; United Kingdom 266; Netherlands 162.		
Bitumen and other residues	286		All to Sweden.		
Bituminous mixtures	35		Sweden 17; Iceland 15; United Kingdom 3.		
Petroleum coke	128,729		Netherlands 88,479; France 17,524; Germany 10.665.		

1/ Table prepared by Glenn J. Wallace.

2/ Less than 1/2 unit.

3/ May include high-purity silicon.

4/ Includes zinc dust, flakes, and powders.

5/ Reported under SITC item number as "selenium, tellurium, phosphorus, arsenic, etc."

Source: United Nations Statistical Office (microfiche).

TABLE 4 NORWAY: IMPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

			Sources
Commodity	Total	United	
		States	Other (principal)
METALS			
Akali and akaline-earth metals:			
Alkali metals	25	(2/)	United Kingdom 20; Germany 5.
Alkaline-earth metals	764		Russia 337; China 193; Hong Kong 57.
Aluminum:			
Ore and concentrate	22,549		Greece 20,781; Guyana 1,615; Germany 107.
Oxides and hydroxides thousand tons	1,699	(2/)	Suriname 534; Ireland 260; Australia 130.
Metal including alloys:			
Scrap	63,038		Russia 24,694; Germany 23,339; United Kingdom 5,273.
Unwrought	149,540	19	Russia 118,325; Brazil 8,353; Netherlands 4,771.
Semimanufactures	39,420	767	Sweden 10,274; Germany 3,407; Hungary 2,588.
Antimony, metal including alloys, all forms value, thousands	\$7		Germany \$6; Denmark \$1.
Beryllium, metal including alloys, all forms do.	\$9		Sweden \$4; United Kingdom \$2; Denmark \$1.
Bismuth, metal including alloys, all forms do.	\$6		Japan \$3; Denmark \$2; Sweden \$1.
Cadmium, metal including alloys, all forms do.	\$37	\$15	Japan \$20; Sweden \$1; Unioted Kingdom \$1.
Chromium:			
Oxides and hydroxides	89	(2/)	Germany 39; United Kingdom 31; China 16.
Metal including alloys, all forms	54		Netherlands 18; Switzerland 16; Germany 13.
Cobalt:			· · · · · · · · · · · · · · · · · · ·
Oxides and hydroxides	696		Sweden 387; Ireland 307; Germany 1.
Metal including alloys, all forms	1,754	(2/)	Australia 656; Congo (Kinshasa) 619; Belgium-Luxembourg
			281.
Columbium and tantalum, tantalum metal including alloys, all forms			
value, thousands	\$21		United Kingdom \$17; Germany \$2; Italy \$2.
Copper:			
Matte and speiss including cement copper	1		All from Sweden.
Metal including alloys:			
Scrap	5,777	175	Denmark 1,945; Sweden 1,812; Latvia 1,105.
Unwrought	3,156	(2/)	United Kingdom 1,823; Sweden 838; Germany 404.
Semimanufactures	25,475	193	Sweden 9,149; Germany 5,840; France 3,052.
Germanium, metal including alloys, all forms	1		All from Germany.
Gold:			
Waste and sweepings value, thousands	\$3.334		Finland \$2.398: Sweden \$409: Germany \$262.
Metal including alloys, unwrought and partly wrought kilograms	4.031	43	Germany 2.929: Ireland 329: Switzerland 261.
Iron and steel:	1,001		Serinaly 2,727, Hendra 627, 5 (Helenand 2011
Iron ore and concentrate, excluding roasted pyrite	470.188		South Africa 443 353: Canada 14 815: Belarus 11 971
Metal:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Scrap	215 746		Germany 175 962: Russia 33 016: Latvia 2 932
Pig iron, cast iron, related materials	13,529	(2/)	Canada 6 873: Russia 1 809: United Kingdom 1 619
Ferroallovs:	10,02)	(=,)	
Ferrochromium	660	16	Sweden 547: Netherlands 47: Germany 31
Ferromanganese	6.078		South Africa 4 953: France 1 000: Sweden 124
Ferrosilicomanganese	49	(2/)	Mainly from Poland
Ferrosilicon	6 581	(2/)	Russia 2 421: Iceland 1 821: Kazakstan 1 000
Silicon metal 3/	5 380	(2/)	Brazil 3 590: South Africa 1 286: China 270
Unspecified	728	21	Sweden 249: United Kingdom 237: China 53
Steel primary forms	124 347	21	Germany 58 607: Czach Panublic 46 727: United Kingdom
Steel, primary forms	124,347	5	11 202
Somimonufactures			11,595.
Elet rolled meduate			
Via alad mlatad asstad	526 160	16 415	Natharlanda 126 827, Swadan 80 605, Company 62 740
Clad vlated sected	120,089	10,413	Neurertailus 120,857; Sweden 80,003; Germany 05,740.
Ciau, pialeu, coaleu	120,988	43	5 250 Sweden 49,900; United Kingdom 24,045; Beigium-Luxembourg
Of allow steel	51 (04	2	13,430.
	51,604	3	Germany 14,000; Sweden 15,585; Finland 8,265.
Bars, rods, angles, snapes, sections	2/8,438	169	Sweden 50,695; United Kingdom 43,838; Germany 39,136.
Kalls and accessories	22,335		United Kingdom 10,320; Austria 6,052; Sweden 2,327.
Wire	19,860	40	Beigium-Luxembourg 8,60/; Sweden 5,420; France 1,514.
Tubes, pipes, fittings	388,843	3,143	Japan 187,285; Germany 71,019; United Kingdom 26,462.

TABLE 4--Continued NORWAY: IMPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

			Sources
Commodity	Total	United	Other (principal)
METAL SContinued		States	Other (principal)
Lead:			
Oxides	699	(2/)	Sweden 565: Germany 96: Finland 30.
Metal including alloys:			
Scrap	92		Sweden 67; Denmark 25.
Unwrought	4.305		Sweden 1.832: United Kingdom 1.626: Germany 472.
Semimanufactures	1.222	(2/)	Germany 517: Netherlands 478: Sweden 114.
Magnesium, metal including allovs:		(=,)	
Scrap	3.827	125	Canada 2.486: Finland 533: Italy 251.
Unwrought	7,152	243	Russia 3 052: Canada 2 388: China 769
Semimanufactures	48	6	Israel 25: United Kingdom 8: Germany 4.
Manganese:			
Ore and concentrate, metallurgical-grade	676.573		Australia 320.260: South Africa 242.676: Gabon 64.958.
Oxides and hydroxides	513	7	Netherlands 411: Belgium-Luxembourg 69: France 22
Metal including alloys all forms	1 540	307	Germany 555: Spain 445: United Kingdom 177
Mercury value thousands	\$23	\$17	Netherlands \$3: Germany \$2: Switzerland \$1
Molybdenum metal including allovs:	φ20	ψ1/	Temerando 40, Germany 42, Dwitzerland 41.
Unwrought including waste and scrap	14		Mainly from United Kingdom
Semimanufactures	2	(2/)	Austria 1: Germany 1
Nickel	<i>L</i>	(2)	
Matte and speiss	141 941		Canada 93 499: South Africa 43 503: Australia 3 891
Metal including allovs:	141,941		Canada 95,499, 50dai Annea 45,505, Australia 5,691.
Scran	24		United Kingdom 23: Latvia 1
Unwrought	24	8	Sweden 99: Belgium-Luxembourg 56: United Kingdom 34
Semimanufactures	/38	5	United Kingdom 235: Germany 63: Japan 54
Platinum group metale:	430	5	Onice Kingdom 255, Germany 05, Japan 54.
Waste and sweepings value thousands	\$10,800		Netherlands \$3,154: Germany \$2,756: France \$2,137
Metal including allows unwrought and partly wrought do	\$10,809	\$147	United Kingdom \$1 607: Switzerland \$1 444: Cormony \$004
Silver, metal including allows, unwrought and partly wrought do.	. \$4,00J	\$147	Sweden \$10,251; Cormony \$5,076; United Kingdom \$1,248
Silver, metal including alloys, unwrought and party wrought do.	\$20,814	\$022	Sweden \$10,551; Germany \$5,976; Onned Kingdom \$1,248.
Seren	1		Mainly from United Kingdom
Scrap Llewenucht	622		Ching 429: Natharlanda 85: United Kingdom 54
	025		China 426; Netherlands 85; Olified Klingdom 54.
Semimanuractures	11/	(2/)	Sweden 54; China 22; United Kingdom 20.
Titanium:	20 (27		La Jia 20,079, Assatualia 152, Nathaulau da 54
	29,637		India $29,278$; Australia 155; Netherlands 54.
	1,513	31	Germany 680; Belgium-Luxembourg 669; Saudi Arabia 36.
Metal including alloys:	60	2	
Unwrought including waste and scrap	60	3	United Kingdom 37; Spain 11; Germany 6.
Semimanufactures	478	1	Italy 208; Sweden 73; China 67.
I ungsten, metal including alloys:			Mainle form I and
Unwrought including waste and scrap	<u> </u>		Mainly from Israel.
Semimanufactures	4	(2/)	Germany 2; Israel 1.
Uranium and thorium, uranium metal including alloys, all forms	<i>.</i>		
value, thousands	\$489	\$78	Germany \$295; Belgium-Luxembourg \$67; Finland \$20.
Vanadium, metal including alloys, all forms do.	\$4	\$4	
Zinc:			
Ore and concentrate	189,328		Sweden 79,273; Canada 56,392; Ireland 19,150.
Oxides	2,414		Germany 1,519; Switzerland 346; India 208.
Metal including alloys:			
Scrap	2,423		Denmark 1,319; Sweden 344; Finland 236.
Unwrought	1,348		Russia 1,080; Sweden 143; United Kingdom 56.
Semimanufactures 4/	1,374	(2/)	Germany 900; France 222; Sweden 77.
Zirconium:			
Ore and concentrate	440		South Africa 222; Sweden 128; Netherlands 60.
Metal including alloys:			
Unwrought including waste and scrap	18		Mainly from Australia.
Semimanufactures	19	(2/)	Germany 12; United Kingdom 5; France 1.
San footnotes at and of table			

TABLE 4--Continued NORWAY: IMPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

				Sources
Commodity		Total	United	
			States	Other (principal)
METALSContinued				
Other:				
Oxides and hydroxides		1,260	59	France 875; United Kingdom 199; Germany 64.
Ashes and residues		219,228	20	Germany 68,954; Sweden 46,330; Denmark 43,255.
Base metals including alloys, all forms	value, thousands	\$182		United Kingdom \$138; Russia \$35; Germany \$9.
Metalloids 5/		91		Denmark 39; Bolivia 18; Germany 18.
Precious metals, n.e.s., waste and sweepings	value, thousands	\$6,835		Finland \$2,620; Sweden \$2,545; Denmark \$1,243.
INDUSTRIAL MINERALS				
Abrasives, n.e.s.:				
Natural: Corundum, emery, pumice, etc.		15,447	48	Iceland 15,115; Germany 86; Denmark 45.
Artificial corundum		1,118	2	United Kingdom 436; France 435; Germany 153.
Dust and powder of precious and semiprecious	stones			
including diamonds	value, thousands	\$334	\$19	Romania \$108; Netherlands \$72; Germany \$43.
Grinding and polishing wheels and stones		1,125	6	Netherlands 306; Austria 249; Germany 156.
Barite and witherite		142,170	13	Morocco 139,172; United Kingdom 2,544; Netherlands 270.
Boron, crude natural borates		39	39	
Bromine, fluorine, iodine		447	1	Japan 257; Chile 115; Belgium-Luxembourg 41.
Cement		155,105	103	United Kingdom 123,627; Spain 19,759; Sweden 4,402.
Chalk		7,026	1	Denmark 4,308; Sweden 1,622; United Kingdom 532.
Clays, crude:				
Bentonite		24,533	8,012	Greece 11,175; United Kingdom 1,894; Italy 1,261.
Kaolin		224,811	612	United Kingdom 211,504; Czech Republic 5,071; Sweden
				4,652.
Unspecified		9,675	818	France 3,491; Czech Republic 1,990; Poland 770.
Cryolite and chiolite		409		All from United Kingdom.
Diamond, natural:				
Gem, not set or strung	value, thousands	\$4,000	\$15	Belgium-Luxembourg \$2,358; Israel \$624; Germany \$301.
Industrial stones	do.	\$76		Belgium-Luxembourg \$29; Romania \$11; Israel \$10.
Diatomite and other infusorial earth		1,472	506	Germany 212; Denmark 204; Spain 176.
Feldspar		889		Sweden 887; France 2.
Fertilizer materials:				
Crude, n.e.s.		1,923	17	Denmark 1,234; Sweden 528; Germany 82.
Manufactured:				
Ammonia		338,704	1	Latvia 150,582; Russia 90,200; Ukraine 78,588.
Nitrogenous		118,370	3	Sweden 40,813; Belgium-Luxembourg 24,948; Germany 20,900.
Phosphatic		1,585		Denmark 1,087; Netherlands 440; Sweden 58.
Potassic		542,620	10	Russia 302,998; Germany 72,947; France 58,502.
Unspecified and mixed		55,850		Belgium-Luxembourg 39,729; Sweden 8,642; Netherlands 2,972.
Graphite, natural		212	7	Poland 94; Sweden 81; United Kingdom 25.
Gypsum and plaster		305,342	59	Spain 185,953; Germany 74,567; Denmark 44,121.
Lime		33,345	8	Sweden 26,466; Germany 2,905; Denmark 2,785.
Magnesium compounds:				
Magnesite, crude		243	1	Austria 116; Germany 79; China 20.
Oxides and hydroxides		4,833	78	Netherlands 2,336; Switzerland 2,255; France 42.
Mica:				
Crude including splittings and waste		2,553		India 2,112; China 265; Netherlands 130.
Worked including agglomerated splittings		62	(2/)	Switzerland 28; Sweden 17; Belgium-Luxembourg 6.
Nitrates, crude		166		Germany 119; Sweden 23; Switzerland 14.
Phosphates, crude		680,851	3	Russia 647,104; South Africa 23,425; Latvia 5,751.
Pigments, mineral, iron oxides and hydroxides, pr	ocessed	1,889	20	Germany 1,163; China 507; Spain 71.
Precious and semiprecious stones other than diame	ond:			
Natural	value, thousands	\$587	\$50	Germany \$123; Denmark \$113; Brazil \$98.
Synthetic	do.	\$74	\$4	Romania \$23; Hong Kong \$18; Germany \$14.
Pyrite, unroasted		244,894		All from Finland.
Quartz crystal, piezoelectric	value, thousands	\$4		Germany \$1; Italy \$1; Japan \$1.
Salt and brine		675,716	23	Netherlands 273,504; Spain 163,929; Denmark 76,717.
Sodium compounds, n.e.s.:				
Soda ash, manufactured		61,316	33	Poland 32,030; Netherlands 17,802; Germany 7,712.
Sulfate, manufactured		2,854		Sweden 1,258; Spain 983; Finland 447.

TABLE 4--Continued NORWAY: IMPORTS OF MINERAL COMMODITIES IN 1996 1/

(Metric tons unless otherwise specified)

Commodity Total United States Other (principal) NOUSTRIAL MINERALS—Continued Stome, stand and gravel;					Sources
Notust States Other (principal) Stone, sand and gravel: Dimension stone: - </td <td colspan="2">Commodity</td> <td>otal –</td> <td>United</td> <td></td>	Commodity		otal –	United	
INDUSTRIAL MINERALS—Continued Data Data <thdata< th=""> Data Data <</thdata<>	commonly	-	ouu	States	Other (principal)
Stone, stand, and gravel:	INDUSTRIAL MINERALSContinued				
Dimension some: 16.311 (2) Sweden 7.72: Portugal 6.519; Italy 904. Order and party worked 40.267 Portugal 21,197; Italia 7,374; Germany 3,732. Dolonite, chiefly refractory-grade 9,319 Sweden 7,970; Germany 1,076; United Kingdom 243. Gravel and crussed rock 89,318 Sweden 7,970; Germany 1,076; United Kingdom 243. Jumitz and quartizit 665,154 16 Spain 423,556; Sweden 22759; Portugal 13,281. Sand other than metal-bearing 262,561 313 Belgium-Laxembourg 127,147; Sweden 58,903; United Kingdom 7, Saudi Anshia I. Colloid in preprinted. 700 Sweden 10,393; Germany 9. Switzerland 174; Sweden 133; Austria 58. Colloid in preprinted. 28 Sweden 10,593; Germany 9. Sweden 10,593; Germany 9. Sulfure acid 28 Sweden 10,593; Germany 9. Sweden 10,279; Finland 2,673. Crude 2,424 3 Greece 1,201; Denmark 546,451; Finland 12,874. Yerniculity, perfile, chorite 2,242 3 Greece 1,201; Denmark 36,463; Finland 12,824. MiNERAL FUELS AND RELATED MATERIALS 16,680 74 United Kingdom 522; Sweden 120. Other: 771,320 Fran	Stone, sand and gravel:				
Code and partly worked 16.311 (2) Sweden 7.722 Portugal 6.519: Italy 904. Worked 40.267 Portugal 21.197: India 7.374; Germany 3.732. Dolomite, chiefly refractory-grade 9.319 Sweden 7.970; Germany 1.076; United Kingdom 7.432. Gravel and crushed rock 893.318 Sweden 80.236; Initial 4.561; United Kingdom 7.432. Limestore other than dimension 144.100 United Kingdom 7.762; Prantagal 13.881. Sand other than metal-bearing 262.561 313 Belgium-Laxenbourg 12.7.147; Sweden 25.959; Vortugal 13.881. Suffur: Elemental: Switzerland 174; Sweden 133; Austria 58. Coloidal, precipitated, sublimed 8 United Kingdom 7, Saudi Arabia 1. Dioxide 10.402 Sweden 10.393; Germany 9. Switzerland 174; Sweden 133; Austria 58. Suffur: acid 28 Sweden 10.393; Germany 4. Statria, Sougstone, pyrophyllite Tak, statite, sougstone, pyrophyllite 16.479 (2) Sweden 10.393; Germany 4. Suffur: acid 17.320 26 France 97.107; Denmark 394; Sweden 120. Other: Crude 52.459 329 Germany 4.320; Sweden 143. Cala Andheach	Dimension stone:				
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		570,2		1/1,2/7	lands 9.849.

1/ Table prepared by Glenn J. Wallace.

2/ Less than 1/2 unit.

3/ May include high-purity silicon.

4/ Includes zinc dust, flakes, and powders.

5/ Reported under SITC item number as "selenium, tellurium, phosphorus, arsenic, etc."

Source: United Nations Statistical Office (microfiche).