



# 2019 Minerals Yearbook

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**NAMIBIA [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF NAMIBIA

By James J. Barry

In 2019, diamond and uranium were the most significant mineral commodities contributing to Namibia's economy. The country ranked fifth in the world in terms of the total value of rough diamond production and ninth in terms of rough diamond production by weight (carats). According to the World Nuclear Association, Namibia was the fourth-ranked producer of uranium, accounting for 10% of world production. The country was the fifth-ranked producer of arsenic trioxide. Metals produced in the country included copper, gold, iron ore, lead, manganese, silver, tantalum, tin, and zinc. In addition to arsenic trioxide and diamond, industrial minerals produced included cement, salt, and sulfuric acid (table 1; George, 2020; Kimberley Process Certification Scheme, 2020a; Namibia Statistics Agency, 2020, p. 16; World Nuclear Association, 2020).

## Minerals in the National Economy

In 2019, Namibia's nominal gross domestic product (GDP) was \$12.4 billion,<sup>1</sup> and real GDP decreased by 1.1% compared with that in 2018. Mining and quarrying contributed 9.3% to the country's GDP, including contributions from diamond production of 3.9%; metal ores, 3.1%; uranium, 1.4%; and other mining and quarrying, 0.8%. The mining sector (including refined metals and cut and polished diamond) accounted for 65.9% of Namibia's total exports of goods, by value. In 2019, diamond and metal ores, including uranium, were among the top export commodities, and Namibia's total diamond exports were valued at about \$952 million (about 1.95 million carats of diamond) (Bank of Namibia, 2020, p. 236, 237, 239; Kimberley Process Certification Scheme, 2020a; Namibia Statistics Agency, 2020, p. 37).

Mining in Namibia is regulated by the Minerals (Prospecting and Mining) Act 33 of 1992. The Diamond Act 13 of 1999 provides for various measures relating to the possession, purchase, sale, processing, import, and export of diamond. Petroleum exploration and production are regulated by the Petroleum (Exploration and Production) Amendment Act 2 of 1991. The total number of people employed in the mineral sector in 2019, including temporary employees and full-time contractors, was 16,342 compared with 16,224 in 2018. About 18% of the people permanently employed (not temporary and not contractor) in the sector worked for Swakop Uranium; 15%, for Namdeb Diamond Corp. (Pty) Ltd. (Namdeb); about 11% each, for De Beers Marine Namibia (Pty) (Debmarine) and Rössing Uranium Ltd.; 10%, for B2Gold Namibia (Pty) Ltd.; and 8%, for Skorpion Zinc and Namzinc (Pty) Ltd. (Chamber of Mines of Namibia, 2020, p. 23, 78; Parliament of the Republic of Namibia, 2020a–c).

<sup>1</sup>Because of fluctuating exchange rates, a meaningful conversion from Namibian dollars (NAD) to U.S. dollars is impractical. At yearend, however, the 2019 average exchange rate was NAD 14.4518=US\$1.00.

## Production

In 2019, tantalite production in terms of gross weight increased by 663%, and in terms of tantalum content, by an estimated 670%; granite production increased by 63%; limestone, by 46%; mined manganese, by an estimated 40% (in terms of gross weight) and 39% (in terms of manganese content); silver, by 33%; and marble, by 19%. Notable decreases in production included that of diamond, by 16%; mined lead (elemental content), by an estimated 15%; and salt, by 15%. The country's graphite and lithium mines were on care-and-maintenance status throughout the year, so neither graphite nor lithium was produced in 2019. Data on mineral production are in table 1.

## Structure of the Mineral Industry

Most mining operations in Namibia were privately owned. The diamond mining company Namdeb Holdings was owned by De Beers Group of the United Kingdom (50%) and the Government (50%). Additionally, the Government held minority interests in Sakawe Mining Corp. (8%) and Rössing Uranium Ltd. (3%). Table 2 is a list of major mineral industry facilities.

## Commodity Review

### Metals

**Copper.**—In 2019, the only operating copper mine in Namibia was the Tschudi open pit mine, which was owned by Weatherly Mining Namibia Ltd. (a subsidiary of Weatherly International plc of the United Kingdom). Tschudi produced 14,940 metric tons (t) of copper cathode (leaching, electrowon) compared with 15,177 t in 2018. Dundee Precious Metals owned and operated the Tsumeb smelter, which produced blister copper from imported copper concentrates. In 2019, the smelter processed 215,289 t of complex copper concentrate and produced 45,953 t of blister copper compared with processing 232,043 t of complex concentrate and production of 48,970 t of blister copper in 2018 (tables 1, 2; Dundee Precious Metals Inc., 2020, p. 6).

**Gold.**—In 2019, Namibia produced 6,526 kilograms (kg) of gold compared with 6,171 kg in 2018. Gold production came primarily from the Otjikoto Mine (owned by B2Gold Corp. of Canada), which produced 5,535 kg of gold from its two open pits, the Otjikoto pit and the Wolfshag pit. In December, the board of directors of B2 Gold approved the development of the high-grade Wolfshag underground mine. With that decision, development was expected to commence in the third quarter of 2020, with initial production in 2022. According to B2Gold, probable reserves for the Wolfshag underground mine were about 1.1 million metric tons (Mt) of ore at a grade of 5.57 grams per metric ton gold (B2Gold Corp., 2019, p. 105; 2020, p. 48, 53).

**Lead and Zinc.**—In 2019, mine production of contained lead was estimated to be 7,000 t compared with 8,200 t in 2018,

and mine production of contained zinc was 117,002 t compared with 118,435 t in 2018. Rosh Pinah Zinc Corp. (Pty) Ltd. (a 90% owned subsidiary of Trevali Mining Corp. of Canada) operated the Rosh Pinah Mine. Rosh Pinah produced 100,409 t of zinc concentrate and accounted for 86% of Namibia's zinc production in 2019, and the mine produced 13,019 t of lead concentrate and accounted for 94% of the country's lead production for the year (table 1; Chamber of Mines of Namibia, 2020, p. 45).

Skorpion Zinc (Pty) Ltd., which was wholly owned by Vedanta Resources Ltd. of the United Kingdom, operated the Skorpion open pit mine and the Namzinc refinery through its subsidiaries Skorpion Mining Co. and Namzinc (Pty.) Ltd., respectively. The company produced high-grade zinc from the Skorpion Mine which was then refined into metal at Namzinc. In May, mining was halted owing to a slope failure. The refinery was able to continue producing until November, when stockpiled feedstock was exhausted. The Skorpion Mine was nearing the end of its planned mine life, with the company initially expecting operations to halt during the last quarter of 2019. The extended closure from the slope failure extended the mine life to June 2020, however, when the company planned to cease mining operations. Operations at the refinery were expected to continue using existing feedstock until March 2021 (Vedanta Resources Ltd., 2019, p. 20, 40; 2020 p. 3).

In March, construction of the Namib lead-zinc mine (90% owned by North River Resources plc of the United Kingdom), which is located about 30 km north of Swakopmund, was completed. In May, the mine achieved first production, and the company continued to ramp up production throughout the remainder of 2019, producing 2,267 t of zinc concentrate and 764 t of lead concentrate. Reported probable reserves of the Namib lead-zinc mine were 611,000 t of ore with a zinc grade of 6.6% and lead grade of 2.3% (Chamber of Mines of Namibia, 2020, p. ii, 41; Namib Lead and Linc Mining, undated).

**Tin.**—In 2019, Uis Tin Mining Company (Pty) Ltd. (85% owned subsidiary of AfriTin Mining Ltd. of Guernsey [United Kingdom]), achieved first production of tin concentrate from the Uis Tin Mine. The commencement of production at the open pit mine marked the beginning of phase 1 of the Uis tin project, which included a rampup to 720 metric tons per year (t/yr) of tin concentrate. Phase 2 of the project would aim to increase annual production to 5,000 t/yr of tin concentrate and add the recovery of tantalum and lithium contained in the ore (AfriTin Mining Ltd., 2020a, p. 13; 2020b, p. 5).

### *Industrial Minerals*

**Diamond.**—According to the Kimberley Process Certification Scheme, production of diamond decreased by 16% to 2,018,099 carats from 2,397,286 carats in 2018. In May, Debmarine Namibia—a joint venture between De Beers Group of the United Kingdom (50%) and the Government (50%)—commenced construction on a new diamond recovery vessel. The ship was expected to begin operating in 2022 and to have annual production of 500,000 carats per year. In September, Namdeb Holdings (Pty) Ltd.—a joint venture between De Beers Group (50%) and the Government (50%)—completed the sale of the Elizabeth Bay Mine to Sperrgebiet Diamond Mining (a wholly owned subsidiary of the Lewcor Group).

In September 2018, Namdeb had determined that it was no longer economical for the company to keep the mine open and suspended operations at Elizabeth Bay (Debmarine Namibia, 2019a, b; Diamond Loupe, The, 2019; Kimberley Process Certification Scheme, 2020a, b; Nyaungwa, 2020).

**Lithium.**—In July, Lepidico Ltd. of Australia acquired Desert Lion Energy Inc. of Canada. The Karibib lithium project, which includes the Rubicon and the Helikon lithium mines, was included in the acquisition. In 2017 and 2018, lithium carbonate was recovered from existing stockpiles; however, in August 2018, production activity ceased owing to a reduction in the price of lithium. Lepidico planned to redevelop the Rubicon and the Helikon Mines and undertook an extensive drilling campaign to upgrade the mineral resources and allow for initial reserve estimates. According to Lepidico, indicated resources estimated in June were 3.0 Mt grading 0.63% Li<sub>2</sub>O (Desert Lion Energy Inc. 2019, p. 9; Lepidico Ltd., 2020, p. 14, 37).

### *Mineral Fuels and Related Materials*

**Uranium.**—In July, Rio Tinto plc of the United Kingdom sold its share of Rössing Uranium Ltd., including the Rössing Mine, to China National Uranium Corp. Ltd. In 2019, Rössing produced 2,448 t of uranium oxide (U<sub>3</sub>O<sub>8</sub>) compared with 2,478 t in 2018. The Husab uranium mine, owned by China General Nuclear Power Group (90%) and Epangelo Mining Co. (10%), produced 4,010 t of U<sub>3</sub>O<sub>8</sub> compared with 3,571 t in 2018. The Langer Heinrich Mine, owned by Paladin Energy Ltd. of Australia (75%) and CNNC Overseas Uranium Holdings Ltd. of China (25%), was placed on care-and-maintenance status in May 2018 owing to low uranium prices. In February, Paladin initiated a prefeasibility study to reopen the mine in anticipation of future increases in prices (table 2; Rio Tinto plc, 2019; Chamber of Mines of Namibia, 2020, p. 74; Paladin Energy Ltd., 2020).

In 2019, there were some notable, active uranium exploration projects in Namibia. The Etango project, which was 95% owned by Bannerman Resources Ltd. of Australia, was an advanced stage development project. Results of an optimization study, part of a 2015 definitive feasibility study (DFS), of the Etango project included estimated proven and probable reserves of 65,000 t of U<sub>3</sub>O<sub>8</sub>, a projected mine life of almost 16 years, and average production of 3,600 t/yr of U<sub>3</sub>O<sub>8</sub>. Forsys Metals Corp. of Canada owned the Norasa uranium project. Norasa's 2015 DFS outlined mineral reserves of 45,400 t of U<sub>3</sub>O<sub>8</sub>, a projected mine life of 15 years, and estimated production of 2,600 t/yr of U<sub>3</sub>O<sub>8</sub> (Forsys Metals Corp., 2020, p. 3; Munro, 2020, p. 31, 32).

### **Outlook**

The economic performance and development of the mineral industry in Namibia is likely to improve as mineral commodity prices, in general, increase. Contributing to the sector's growth is the redevelopment of the Uis tin mine, which attained first production in 2019 and continues to ramp up production. Improved prices in the graphite and lithium markets could result in a resumption of operations at Lepidico's Rubicon and Helikon lithium mines and Imerys Gecko Holdings (Pty) Ltd.'s Okanjande graphite mine. With the development of uranium exploration projects, such as the Etango and the Norasa

projects, and a restart at the Langer Heinrich Mine, Namibia has the potential to be an even more significant world producer of uranium when market conditions become more favorable (Chamber of Mines of Namibia, 2019, p. 36; Oosthuizen, 2019).

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TABLE 1  
NAMIBIA: PRODUCTION OF MINERAL COMMODITIES<sup>1</sup>

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>	2015	2016	2017	2018	2019	
METALS						
Copper:						
Mine, concentrates:						
Gross weight	21,839	19,503	--	--	--	
Cu content	3,351	262	68	--	--	
Smelter, primary, blister, Cu content	45,220	40,869	45,523	48,970	45,953	
Leaching, electrowon, Cu content	10,659	16,391	15,466	15,177	14,940	
Gold, mine, Au content <sup>3</sup>	kilograms	6,009	6,604	7,272	6,171	6,526
Iron ore, for cement	thousand metric tons	4	8	2	13	13
Lead, mine, including lead-zinc concentrates:						
Gross weight	18,521	14,862	13,915	14,068	13,783	
Pb content <sup>c</sup>	9,300	7,500	7,100	8,200	7,000	
Manganese, mine, concentrate:						
Gross weight <sup>c</sup>	110,000	48,000	80,000	65,800	91,800	
Mn content	38,360	16,896	27,915	23,045	32,145	
Silver, mine, Ag content	kilograms	11,555	8,771	7,014	4,666	6,220
Tantalum, mineral concentrate, tantalite:						
Gross weight	do.	--	1,600 <sup>e</sup>	8,000 <sup>e,4</sup>	1,232	9,399
Ta content	do.	--	430 <sup>e</sup>	2,200 <sup>e</sup>	330 <sup>e</sup>	2,540 <sup>e</sup>
Tin, mine, concentrate, Sn content	--	--	--	--	10	
Zinc:						
Mine, ore and concentrate, Zn content	123,529	124,749	132,584	118,435	117,002	
Smelter, primary	71,818	88,650	83,768	67,122	64,985	
INDUSTRIAL MINERALS						
Arsenic trioxide	1,960	1,900 <sup>e</sup>	700 <sup>e</sup>	-- <sup>f</sup>	--	
Cement, hydraulic	thousand metric tons	796	778	780 <sup>e</sup>	930 <sup>e</sup>	1,000 <sup>e</sup>
Diamond, quality unspecified	thousand carats	2,053	1,718	1,948	2,397	2,018
Fluorspar, acid grade, 97% CaF <sub>2</sub>	--	1,495	--	--	--	
Graphite, crystalline flake	--	--	2,216	3,456	--	
Lithium, lepidolite	--	--	--	30,000	--	
Salt	732,980	835,539	886,586 <sup>f</sup>	1,221,803 <sup>f</sup>	1,041,407	
Stone, sand, and gravel, construction:						
Stone:						
Dimension:						
Granite	12,551	18,506	33,469	7,597	12,363	
Marble	41,840	37,721	50,671	59,442	70,781	
Other, size and shape unspecified, limestone	1,164,442	838,600	577,173	775,324	1,135,579	
Sulfur, compounds, sulfuric acid:						
Gross weight	thousand metric tons	--	192	221	240	223
S content	--	63	72	79	73	
MINERAL FUELS AND RELATED MATERIALS						
Uranium, mine, uranium oxide, U content	2,993	3,654	4,224	5,525	5,476	

<sup>e</sup>Estimated. <sup>f</sup>Revised. do. Ditto. -- Zero.

<sup>1</sup>Table includes data available through October 1, 2020. All data are reported unless otherwise noted. Estimated data are rounded to no more than three significant digits.

<sup>2</sup>In addition to the commodities listed, agate, aquamarine, amethyst, basalt, blue chalcedony, lead dust, picture stone, pietersite, rose quartz, sand and gravel, sepiolite, smoky quartz, topaz, tourmaline, and wollastonite may have been produced, but available information was inadequate to make reliable estimates of output.

<sup>3</sup>Does not include gold recovered as a byproduct of copper mining.

<sup>4</sup>Reported exports

TABLE 2  
NAMIBIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners		Location of main facilities	Annual capacity
Cement	Ohorongo Cement (Pty) Ltd. (Ohorongo) (Schwenk Zement KG, 60%; Industrial Development Corp., 20%; Development Bank of Namibia, 11.72%; Development Bank of South Africa, 7.3%)		Cement plant, Otjozondjupa region, near Otavi	800,000
Do.	Whale Rock Cement (Pty) Ltd.		Cement plant, Otjiwarongo	1,200,000
<b>Copper:</b>				
Copper concentrates	Ongopolo Mining & Processing Ltd. (Weatherly Mining Namibia Ltd., 97.5%, and Labour Investment Holdings, 2.5%)		Central operations, includes the Otjihase Mine <sup>1</sup> and concentrator, about 18 kilometers northeast of Windhoek; and the Matchless Mine, 30 kilometers southwest of the Otjihase Mine	8,000
Do.	do.		Northern operations, includes the Tschudi and the Tsumeb West Mines, and the Tsumeb concentrator	17,000
Metal, blister copper	Dundee Precious Metals Tsumeb (Pty) Ltd. (Dundee Precious Metals Inc., 100%)		Smelter at Tsumeb, 430 kilometers north of Windhoek	60,000
Diamond	carats	De Beers Marine Namibia (Pty) Ltd. (Debmarmine) [Namdeb Holdings, 100% (De Beers Group, 50%, and Government, 50%)]	Atlantic 1, mining license area 47, offshore Sperrgebiet	1,300,000
Do.	do.	Namdeb Diamond Corp. (Pty) Ltd. (Namdeb) [Namdeb Holdings, 100% (De Beers Group, 50%, and Government, 50%)]	Orange River Mines, mining license area 42, onshore, from mouth of Orange River east to Sendelingsdrif; includes the Auchas and the Daberas Mines	120,000
Do.	do.	do.	Mining Area 1, mining license area 43, Orange River at Oranjemund to 15 kilometers northwest of Oranjemund	1,000,000
Do.	do.		Red Area Complex diamond sorting plant 2, Oranjemund	NA
Do.	carats	do.	Sendelingsdrif Mine, 80 kilometers from Oranjemund and 20 kilometers south of the town of Rosh Pinah	45,000
Do.	do.	Sakawe Mining Corp. (Samicor) [Leviev Group, 76%; Longlife Mining Corp., 10%; Government, 8%; Sakawe Mining Corp. employees, 4%; Namibia Youth Service, 2%]	Offshore mining licenses, near Luderitz Bay	260,000
Do.	do.	Shallow marine and coastal area contractors	Various offshore locations	68,000
Do.	do.	Sperrgebiet Diamond Mining (Pty) Ltd. (Lewcor Group, 100%)	Elizabeth Bay Mine, <sup>1</sup> mining license area 45, onshore and offshore Sperrgebiet 24 kilometers south of Luderitz	210,000
Fluorspar, acid grade	Okorusu Fluorspar (Pty) Ltd. [Gecko Namibia (Pty) Ltd., 100%]		Okorusu Mine and processing plant at Otjiwarongo	120,000
<b>Gold:</b>				
Concentrate, Au content	kilograms	B2Gold Corp., 90%, and EVI Mining (Pty) Ltd., 10%	Otjikoto Mine, 300 kilometers north of Windhoek	6,200
Do.	do.	Guinea Fowl Investments Twenty Six (Pty) Ltd. (QKR Corp. Ltd., 92.5%, and Epangelo Mining Company (Pty) Ltd., 7.5%)	Navachab Mine, 170 kilometers northwest of Windhoek	2,700
Metal	do.	Dundee Precious Metals Tsumeb (Pty) Ltd. (Dundee Precious Metals Inc., 100%)	Coproduct contained in blister copper produced at the Tsumeb smelter	400
Graphite	Imerys Gecko Holdings (Pty) Ltd. [Imerys S.A., 51%, and Gecko Namibia (Pty) Ltd., 49%]		Okanjande Mine, <sup>1</sup> 14 kilometers south of Otjiwarongo	20,000

See footnotes at end of table.

TABLE 2—Continued  
NAMIBIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities	Annual capacity
Iron ore	Lodestone Namibia (Pty) Ltd.	Dordabis Mine, 75 kilometers southeast of Windhoek	NA
Do.	Okorusu Fluorspar (Pty) Ltd. [Gecko Namibia (Pty) Ltd., 100%]	Okorusu Mine and processing plant at Otjiwarongo	NA
Lead, Pb content of concentrate	Namib Lead-Zinc Mining (North River Resources Plc, 90%; Namib Lead and Zinc Mine Community, 5%; NLZM Employee Benefit Trust, 5%)	Namib lead-zinc mine, about 30 kilometers north of Swakopmund	3,000
Do.	Rosh Pinah Zinc Corp. (Pty) Ltd. (Trevali Mining Corp., 90%, and Namibian Broad-Based Empowerment Groupings and an Employee Empowerment Participation Scheme, 10%)	Rosh Pinah Mine, 800 kilometers south of Windhoek	20,000
Lithium, Li <sub>2</sub> O content of concentrate	Lepidico Ltd., 80%, and Huni-Urib Holding Company (Pty) Ltd., 20%	Rubicon and Helikon mines near Karibib <sup>1</sup>	65,000
Manganese	Purity Manganese (Pty) Ltd.	Otjonzodu Mine, about 145 kilometers east of Okahandja near Hochfeld in the Otjonzondjupa region	80,000
Pyrite, concentrate	Weatherly Mining Namibia Ltd. (Weatherly International plc, 100%)	Otjihase Mine and concentrator, near Tsumeb	32,000
Salt	Gecko Salt (Pty) Ltd. [Gecko Namibia (Pty) Ltd., 83%; Stewardship Investments, 5.5%; Tulongeni Family Trust, 5%; unidentified shareholders, 6.5%]	Salt pan, North of Henties Bay	70,000
Do.	Salt & Chemicals (Pty) Ltd. [Walvis Bay Salt Holdings (Pty) Ltd., 100%]	Salt pan at Walvis Bay	1,000,000
Do.	Salt Company (Pty) Ltd.	Salt pan, Swakopmund	120,000
Do.	Walvis Bay Salt Refiners (Pty) Ltd. [Walvis Bay Salt Holdings (Pty) Ltd., 100%]	Salt refinery at Walvis Bay	650,000
Silver:			
Concentrate, Ag content	Rosh Pinah Zinc Corp. (Pty) Ltd. (Trevali Mining Corp., 90%, and Namibian Broad-Based Empowerment Groupings and an Employee Empowerment Participation Scheme, 10%)	Rosh Pinah Mine, 800 kilometers south of Windhoek	25
Metal	Dundee Precious Metals Tsumeb (Pty) Ltd. (Dundee Precious Metals Inc., 100%)	Coproduct contained in blister copper produced at the Tsumeb smelter	25
Sulfuric acid	do.	Smelter at Tsumeb, 430 kilometers north of Windhoek	280,000
Tin, concentrate	Uis Tin Mining Company (Pty) Ltd. (AfriTin Mining Ltd., 85% and Small Miners of Uis, 15%)	Uis Mine, about 200 kilometers north of Walvis Bay	800
Uranium, uranium oxide	Langer Heinrich Uranium (Pty) Ltd. (Paladin Energy Ltd., 75%, and CNNC Overseas Uranium Holdings Ltd., 25%)	Langer Heinrich Mine, Namib Desert, 80 kilometers east of Walvis Bay <sup>1</sup>	1,500
Do.	Rössing Uranium Ltd. (China National Uranium Corp. Ltd., 69%; Iranian Foreign Investment Company, 15%; Industrial Development Corp. of South Africa Ltd., 10%; Government of Namibia, 3%; other minority shareholders, 3%)	Rössing Mine, 65 kilometers northeast of Swakopmund	4,800
Do.	Swakop Uranium (Pty) Ltd. (China General Nuclear Power Group, 90%, and Epangelo Mining Co., 10%)	Husab Mine, 45 kilometers northeast of Walvis Bay Port	5,500
Wollastonite	Usakos Wollastonite Mines (Pty) Ltd.	Usakos Mine, Karibib District, Erongo region	800

See footnotes at end of table.

TABLE 2—Continued  
NAMIBIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities	Annual capacity
<u>Zinc:</u>			
<u>Mine:</u>			
Concentrate, Zn content	Namib Lead-Zinc Mining (North River Resources Plc, 90%; Namib Lead and Zinc Mine Community, 5%; NLZM Employee Benefit Trust, 5%)	Namib Lead and Zinc Mine, about 30 kilometers from Swakopmund	8,000
Do.	Rosh Pinah Zinc Corp. (Pty) Ltd. (Trevali Mining Corp., 90%, and Namibian Broad-Based Empowerment Groupings and an Employee Empowerment Participation Scheme, 10%)	Rosh Pinah Mine, 800 kilometers south of Windhoek	110,000
Ore	Skorpion Zinc (Pty) Ltd. [Skorpion Mining Co. (Pty) Ltd. (Vedanta Resources Ltd., 100%)]	Skorpion Mine, 25 kilometers north of Rosh Pinah	1,500,000
Metal	Skorpion Zinc (Pty) Ltd. [Namzinc (Pty) Ltd. (Vedanta Resources Ltd., 100%)]	Namzinc solvent extraction facilities and electrowinning refinery, 25 kilometers north of Rosh Pinah	150,000

Do., do. Ditto. NA Not available.

<sup>1</sup>On care-and-maintenance status.