

2016 Minerals Yearbook

TAIWAN

THE MINERAL INDUSTRY OF TAIWAN

By Spencer D. Buteyn

In 2016, the production of mineral commodities—notably marble, natural gas, and, sulfur—represented only a minor part of the economy of Taiwan (Bureau of Mines, 2017, p. 66–67; Directorate General of Budget, Accounting and Statistics, 2017, p. 76, 114). The legislative framework for the mineral sector in Taiwan is provided by the Mining Act of 1930 and its amendments. Data on mineral production are in table 1. Table 2 is a list of major mineral industry facilities. More-extensive coverage of the mineral industry of Taiwan can be found in previous editions of the U.S. Geological Survey Minerals Yearbook, volume III, Area Reports—International—Asia and the Pacific, which are available at https://www.usgs.gov/centers/nmic/asia-and-pacific.

References Cited

Bureau of Mines [Taiwan], 2017, Annual statistical report of mineral [sic] 2016: Taipei City, Taiwan, Bureau of Mines, June, variously paged. (Accessed March 27, 2018, at https://www.mine.gov.tw/Download/PInfo/P00001287A.pdf.)

Directorate General of Budget, Accounting and Statistics, 2017, Statistical yearbook of the Republic of China 2016: Taipei City, Taiwan, Directorate General of Budget, Accounting and Statistics, October, 162 p. (Accessed March 27, 2018, at https://eng.stat.gov.tw/public/data/dgbas03/bs2/yearbook_eng/Yearbook2016.pdf.)

 $\label{eq:table 1} \textbf{TAIWAN: PRODUCTION OF MINERAL COMMODITIES}^1$

(Metric tons, gross weight, unless otherwise specified)

Commodi	2012	2013	2014	2015	2016	
METAL						
Iron and steel:						
Pig iron	thousand metric tons	11,785	13,319	14,440	14,370	14,830
Raw steel	do.	20,664	22,282	23,121	21,392	21,751
Lead, refinery production, secondary ^e		35,000	34,000	40,000	46,000	48,000
INDUSTRIAL M	NERALS					
Cement, hydraulic	thousand metric tons	15,808	16,554	14,592	13,445	12,126
Clay and shale, kaolin		26,376	15,963	1,808	732	4,035
Lime		286,808	282,057	260,717	211,230	216,208
Mica		6,844 ^r	8,931 ^r	5,016	8,287	1,879
Soda ash, synthetic ^e		140,000	140,000			
Sodium compounds, caustic soda		1,727,597	1,738,858	1,707,262	1,705,451	1,708,555
Stone, sand, and gravel:						
Silica, mine production, unspecified		58,157	61,718	131,652	132,469	175,643
Stone, crushed:						
Dolomite		47,488	37,755	22,196	22,349	22,006
Marble, raw material	thousand metric tons	22,540	21,729	20,568	18,035	15,918
Stone, dimension:						
Limestone	_	6,357	9,079	30,055	1,094	1,439
Serpentine, raw material		60,659 ^r	93,604 ^r	137,957 ^r	133,965	102,021
Sulfur, S content		231,296	192,292	195,280	211,219	163,768
Talc and related materials, talc ^e		778	362	133	162	250
MINERAL FUELS AND REI	LATED MATERIALS					
Coke, metallurgical	thousand metric tons	5,152	5,678	6,277	6,300	6,600 e
Natural gas	million cubic meters	442	381	387	374	334
Petroleum:						
Crude	thousand 42-gallon barrels	72	66	59 ^r	58 ^r	53
Refinery production:						
Distillate fuel oil, diesel	do.	106,682	108,910	108,190	105,931	102,881
Lubricants and lubricating oil	do.	1,672	1,677	1,788	1,578	1,412
A						

^eEstimated. ^rRevised. do. Ditto. -- Zero.

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¹Table includes data available through March 15, 2018. All data are reported unless otherwise noted. Estimated data are rounded to no more than three significant digits; may not add to totals shown.

²In addition to the commodities listed, refined nickel was produced, but available information was inadequate to make reliable estimates of output.

TABLE 2 TAIWAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2016

(Thousand metric tons unless otherwise specified)

Cement Asia Cement Corp. Hsinchu County 1,800 Do. do. Hualien County 4,022 Do. Chia Hsin Cement Corp. Kaohsiung County 1,866 Do. Chien Tai Cement Corp. Taoyana County 2,000 Do. Lucky Cement Corp. Taoyana County 2,000 Do. Southeast Cement Corp. Kaohsiung 1,999 Do. do. Chutung 1,400 Do. Taiwan Cement Corp. (TCC) Keelung City 1,500 Do. do. Hualien County 5,500 Do. Universal Cement Corp. Kaohsiung City 1,500 Do. China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Steel, raw An Feng Steel Co. Ltd. Kaohsiung City 6,200 <tr< th=""><th></th><th></th><th></th><th></th><th>Annual</th></tr<>					Annual
Do.	Com	modity	Major operating companies	Location of main facilitites	capacitye
Do.	Cement		Asia Cement Corp.	Hsinchu County	1,800
Do. Chien Tai Cement Co. Ltd. do. 1,720 Do. Lucky Cement Corp. Taoyuan County 2,000 Do. Southeast Cement Corp. Kaohsiung 1,909 Do. do. Chutung 1,400 Do. do. Hualien County 5,600 Do. do. Hualien County 3,400 Do. do. Yilan County 3,400 Do. Universal Cement Corp. Kaohsiung City 1,550 Iron and steel: Pig iron do. 9,900 Do. Dragon Steel Corp. do. 9,900 Steel, raw An Feng Steel Corp. (China Steel Corp.) Taichung City 6,200 Steel, raw An Feng Steel Corp. (China Steel Corp.) do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.)	Do.		do.	Hualien County	4,020
Do.	Do.		Chia Hsin Cement Corp.	Kaohsiung County	1,860
Do. Southeast Cement Corp. Kaohsiung 1,090	Do.		Chien Tai Cement Co. Ltd.	do.	1,720
Do. do. Chutung 1,400 Do. Taiwan Cement Corp. (TCC) Keelung City 1,600 Do. do. Hualien County 5,600 Do. do. Yilan County 3,400 Do. Universal Cement Corp. Kaohsiung City 1,550 Iron and steel: Pig iron China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Steel, raw An Feng Steel Co. Ltd. Kaohsiung City 2,000 Do. China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Hai Kwang Enterprise Corp. Kaohsiung City 600 Do. Tang Eng Stainless Steel Plant do. 3,00 Do. Yieh Hsing Enterprise Co. Ltd. do. 1,300	Do.		Lucky Cement Corp.	Taoyuan County	2,000
Do.	Do.		Southeast Cement Corp.	Kaohsiung	1,090
Do. do. Hualien County 5,600 Do. do. Yilan County 3,400 Do. Universal Cement Corp. Kaohsiung City 1,550 Iron and steel: Pig iron China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Steel, raw An Feng Steel Co. Ltd. Kaohsiung City 2,000 Do. China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Hai Kwang Enterprise Corp. Kaohsiung City 6,000 Do. Tang Eng Stainless Steel Plant do. 455 Do. Yieh Phui Enterprise Co. Ltd. do. 455 Do. Yieh Phui Enterprise Co. Ltd. do. 1,300 Do. Yieh United Steel Co. do. 1,200 <td>Do.</td> <td></td> <td>do.</td> <td>Chutung</td> <td>1,400</td>	Do.		do.	Chutung	1,400
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Do. Universal Cement Corp. Kaohsiung City 1,550 Iron and steel: Pig iron China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Steel, raw An Feng Steel Corp. do. 9,900 Do. China Steel Corp. do. 9,900 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,200 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 600 Do. Hai Kwang Enterprise Corp. Kaohsiung City 600 Do. Tang Eng Stainless Steel Plant do. 300 Do. Yieh Hsing Enterprise Co. Ltd. do. 450 Do. Yieh Phui Enterprise Co. Ltd. do. 1,300 Do. Yieh United Steel Co. do. 1,300 Do. Yieh Hinited Steel Co. Ltd. Taichung City 1,200 Mica Xingyang Mining Co., Ltd. Taoyuan City 16 Nickel, metal Taiwan Nickel Refining Corp. Kaohsiung City	Do.		do.	Hualien County	5,600
Iron and steel: Pig iron China Steel Corp. do. 9,90 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 6,20 Steel, raw An Feng Steel Co. Ltd. Kaohsiung City 2,00 Do. China Steel Corp. (China Steel Corp.) Taichung City 6,20 Do. Dragon Steel Corp. (China Steel Corp.) Taichung City 60 Do. Hai Kwang Enterprise Corp. Kaohsiung City 60 Do. Tang Eng Stainless Steel Plant do. 30 Do. Yieh Hsing Enterprise Co. Ltd. do. 1,30 Do. Yieh Phui Enterprise Co. Ltd. do. 1,30 Do. Yieh United Steel Co. do. 1,00 Mica Xingyang Mining Co., Ltd. Taichung City 1,20 Mica Xingyang Mining Co., Ltd. Taoyuan City 16 Nickel, metal Taiwan Nickel Refining Corp. Kaohsiung City 14 Petroleum: Chinese Petroleum Corp. Chuhuangkeng and 10 Chinese Petroleum Corp. </td <td>Do.</td> <td></td> <td>do.</td> <td>Yilan County</td> <td>3,400</td>	Do.		do.	Yilan County	3,400
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Refinery productsdo.do.Kaohsiung City570Do.do.do.Taoyuan City200Do.do.Formosa Plastics GroupYunlin County450Stone, marbleTaiwan Marble Co., Ltd.New Taipei City150	Crude	thousand 42-gallon	Chinese Petroleum Corp.	Chuhuangkeng and	100
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Stone, marble Taiwan Marble Co., Ltd. New Taipei City 150	Do.	do.	do.	Taoyuan City	200
	Do.	do.	Formosa Plastics Group	Yunlin County	450
Sulfur China Petrochemical Development Corp. Taipei City 280	Stone, marble		Taiwan Marble Co., Ltd.	New Taipei City	150
	Sulfur		China Petrochemical Development Corp.	Taipei City	280

^eEstimated; estimated data are rounded to no more than three significant digits. Do., do. Ditto.