cept where traversing the dike, the vein holds nothing but a little galena. But the part which lay within the dike, and constituted a perpendicular square prism, proved to be rich in argentite and native silver, to a depth of about 1,000 feet, when it began to fail and at 1,200 feet it had become so poor as to be no longer worth working. The total value of the silver taken from this mine amounted to about \$3,250,000. The rock of the dike itself, on analysis, was found to contain a variety of metals in notable quantities.

On the shore of Thunder Bay, a short distance to the northeast of the Shuniah and Thunder Bay mines, a rather small vein which cuts both the Huronian and Animikie rocks was worked to a limited extent under the name of the 3A mine. It was noted for producing occasional specimens of nickelite.

## COPPER STATISTICS.

The fourteenth annual issue of Messrs. Aron Hirsch & Sohn's Copper Statistics gives the copper production of the world for the preceding twelve months. The following extracts should be of interest to all connected with the mining, smelting and refining of copper:—

The most complete estimate of the world's copper production is published by Henry R. Merton & Co., Ltd., of London, whose figures for 1905 are not yet available. We give their figures for former years for comparison:

IS80: 153,959 t, 1885: 225,592 t, 1891: 279,309 t, 1892: 310,472 t, 1893: 303,975 t, 1894: 324,405 t, 1895: 334,565 t, 1896: 373,363 t, 1897: 397,390 t, 1898: 424,126 t, 1899: 470,866 t, 1900: 486,084 t, 1901: 518,788 t, 1902: 542,470 t, 1903: 505,828 t, and pro 1904: 640,935 t.

# STATISTICS OF THE PRINCIPAL COPPER CON-SUMING COUNTRIES.

Germany.

Importations, except ores: From United States From other countries		1905. 90,202 33,830
Total Less re-exports		124,032 17,663
	114,629	103,369
Production, including prod. from imported ores	30,456	30,533
Home consumption	145,085	136,902

Exports of manufactures ...... 64,085 77,993

The apparent decrease in German consumption, contrary to the evident better business of the copper consuming industries, is explained by the fact that the high prices ruling in 1905 caused consumers to reduce their supplies to a minimum, while in 1904, foreseeing the advance in prices, consumers had bought freely forward.

A careful investigation of the different branches of consumption of copper in Germany has resulted in the following estimate: 1004. 1005. Tons p. cent. Electrical machinery and Tons p. cent. copper wire ..... 59,000 40.50 57,500 42 Sheet copper; Copper rolling mills. 23,000 16 24,000 17.50 Brass mills ..... 37,000 25.25 35,000 25.50 Chemical industry and blue 2,000 1.25 2,000 1.50

17

146.000

18,500

137,000

13.50

vitriol makers ..... 2,000 Shipyards, railroads and miscellaneous casting ..... 25,000

The above figures of consumption do not provide for the movement of old metals in Germany. We estimate that about 20,000 to 25,000 tons of old metals pass annually back into consumption, and this quantity has to be added to above figures in order to arrive at the figure of actual consumption.

There is no Metal Exchange in Germany and consequently no stocks of copper are accumulated, the quantities imported going practically all into the hands of consumers.

The outlook continues to be an excellent one.

### England.

Imports of copper in ores, pig or refined. Domestic production	1904. 157,897 225	1905. 139,313 200
Decrease of stocks		139,513 3,047
Exports of crude copper	155,074 21,794	142,560 35,162
Domestic consumption Exports of manufactures	133,280	107,398

(In figuring up the English copper consumption, the increase or decrease of stocks carried in public warehouses is taken into consideration.)

### United States.

Production: { Report } Outsid Imports (less re-exp	ing n e sou orts).	nines rces .	 	Тс 366	,522	•••	
Home consumption Exports to Europe Stocks at the end of The figures of co	the y	 ear	• • • • • • •	214 247 79	,094	277 239 56	,756 ,053 ,863 ,762 on
the following basis:- January to March April to June	40 m	illions	lbs. m	ionthly	114	"	44
July to September October to Dec'ber	39½ 42½	"	"	"	1183 1273		## 44

**⊿80 "** "

or 214,285 gross tons.

The figures of consumption for 1905 are estimated on a basis of a consumption of 50,000,000 lbs. per month, but as good authorities think this basis was exceeded in certain months, we add an amount of 5,000 tons for the year, viz., 600,000,000 lbs. equal to 272,053 tons plus 5,000 tons making a total of 277,053 tons.

#### Details of Production.

according to th Geological Surv Lake Superior	corrected figures, locording to the Geological Survey. 208,309,130 lbs. 191,602,958 " 298,314,804 " 5,368,666 " 28,529,023 " 47,062,889 " 9,506,944 " 2,043,586 "	1905 Our own estimation. 218,000,000 lbs. 231,000,000 " 325,000,000 " 325,000,000 " 58,000,000 " 10,000,000 " 58,000,000 "
Alaska Wyoming Idaho and Nevada	3,565,629 "	5,000,000
Tennessee and Southern States	15,211,086 "	12,000,000 " 2,000,000 "
	$8_{12,537,267}$ lbs. = $3^{62,740}$ t.	890.500.000 lbs. = $397.545$ t.