

UNITED STATES PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION OF RECOVERABLE COPPER.

SECONDARY COPPER STATISTICS.

Years 1950-1953 Incl.

10-Year Averages for Period 1940-49. 25-Year Averages for Period 1925-49.

The Arizona Department of Mineral Resources has compiled three tables of copper statistics based on reports from the United States Bureau of Mines.

It is believed that these tables cover the salient features of the United States copper industry, and although three methods of determining the domestic consumption of new copper were used, none varies more than 63,000 tons from any of the other two methods. Hence, it may safely be said that the average domestic consumption of new copper was: for 1950 - 1,447,000 tons; for 1951 - 1,268,000 tons; for 1952 - 1,358,000 tons; and for 1953 - 1,419,000 tons. The figures for 1953 are preliminary, but should be close to the actual.

Data for secondary copper are given to show how much was obtained from old scrap which had been discarded after being used, and how much from new scrap which consisted of refuse produced during manufacture of copper articles, including defective material that had to be re-worked. The total secondary copper recovered from both new and old scrap has been roughly equal to the domestic mine production of new copper. Secondary copper recovered unalloyed amounted to from ten to fifteen percent of domestic mine production of new copper. Secondary copper recovered from old scrap amounted to about fifty percent of domestic mine production. Likewise secondary copper recovered from new scrap.

It will be noted that domestic mine production has stabilized at slightly over 900,000 tons during the past four years. The big producers have curtailed production during the first six months of 1954, but with new developments coming into production during the latter part of this year, this curtailment will be offset by the increased production of the Greater Butte Project, new production of Yerington, Silver Bell, Lavender Pit and White Pine.

A study of the all-around conditions of production, imports, exports and consumption indicates that a satisfactory condition would be for the United States to produce about two-thirds of the domestic copper consumption.

Arizona Department of Mineral Resources

June, 1954

U. S. PRODUCTION, IMPORTS, EXPORTS, AND CONSUMPTION OF RECOVERABLE COPPER.

SECONDARY COPPER RECOVERED FROM NEW AND OLD SCRAP.

YEARS 1950-53 INCL. AND AVERAGES FOR YEARS 1940-49 INCL. SHORT TONS.

Source: U. S. B. M.

<u>COPPER:</u>	<u>1940-49</u> <u>Averages</u>	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u> <u>Preliminary</u>
Refined Stocks in U.S. at beginning of year.	84,160	61,000	26,000	35,000	26,000
Copper production U. S. Mines.	879,642	909,343	928,330	925,377	924,600
Imported into U. S. *	621,667	690,389	489,135	618,944	677,744
	1,585,469	1,660,732	1,443,465	1,579,321	1,628,344
Exported from U.S. **	216,663	192,955	166,508	213,100	171,994
Refined Stocks in U. S. at end of year.	81,650	26,000	35,000	26,000	49,000
APPARENT DOMESTIC CONSUMPTION	1,287,156	1,441,777	1,231,957	1,340,221	1,407,350
U. S. Production % of U. S. Consumption.	68.34	63.07	75.35	69.05	
Secondary copper recovered from new scrap.	432,704	492,028	474,158	488,562	532,000
Secondary copper recovered from old scrap.	435,388	485,211	458,124	414,635	409,000
	868,092	977,239	932,282	903,197	941,000
Production of copper from Arizona Mines.	347,513	403,301	415,870	395,719	392,300
U. S. Smelter production new primary copper.	890,513	911,352	930,774	927,365	943,391
U. S. Refinery production new primary copper.	884,179	920,748	951,559	923,192	932,232
World Smelter production new copper.	2,716,000	2,915,000	3,105,000	3,120,000	3,120,000
World Mine production new copper.	2,650,000	2,750,000	2,900,000	3,000,000	3,000,000
Stocks Blister and Material in solution end of year.	251,250	232,000	182,000	185,000	223,000
Stocks of refined copper in Fabricators' hands end of year.	367,938	290,241	280,402	331,499	380,881
Avg. yearly quoted price of copper (E.& M.J.)	14.176	21.235	24.200	24.200	28.798

\* Copper, unmanufactured, in ores, concentrates, regulus, blister, refined, old-scrap copper.

\*\* Copper in ore, concentrates, refined copper and semi-manufactures.

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SUMMARY OF U. S. PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION OF RECOVERABLE COPPER.

SECONDARY COPPER RECOVERED. YEARS 1950, 1951, 1952 & 1953.

Source: U. S. B. M. (Tons of 2000 lbs.)

	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u> <u>Preliminary</u>
Stocks refined copper in U. S. beginning of year	61,000	26,000	35,000	26,000
U. S. produced copper.	909,343	928,330	925,377	924,600
Imported into U. S. *	650,771	482,555	614,343	677,744
	1,621,114	1,436,885	1,574,720	1,628,344
Exported from U. S. **	144,560	132,991	174,783	171,944
Stocks ref.copper in U.S.at end of year.	26,000	35,000	26,000	49,000
Apparent domestic consumption.	1,450,554	1,268,894	1,373,937	1,407,350
U.S.production % of U.S. consumption.	62.69	73.16	67.33	65.70
Secondary production from new scrap.	492,028	474,158	488,562	532,000
Secondary production from old scrap.	485,211	458,124	414,635	409,000
TOTAL	977,239	932,282	903,197	941,000

\* Ore, matte, regulus, blister copper, refined cathodes and shapes.

\*\* Refined ingots, bars, etc.

Old scrap consists of metal articles that have been discarded after having been used.

New scrap is refuse produced during manufacture of copper articles, including defective material that must be reworked.

SALIENT STATISTICS OF THE U.S. COPPER INDUSTRY  
(Quantities in thousands of short tons) Source: U.S.B.M.

	Average for period <u>1925-1949</u>	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u> <u>Preliminary</u>
Refined supply: Total	1,355	1,818	1,632	1,699	1,774
Domestic ores	732	921	952	923	934
Foreign ores	277	319	255	255	351
Secondary unalloyed	200	261	186	174	228
Imports	146	317	239	347	261
Refined distribution: Total	1,255	1,592	1,437	1,534	1,615
Domestic consumption	1,009	1,447	1,304	1,360	1,443
Exports	246	145	133	174	172
Mine production: Total	730	909	928	925	925
Refined stocks at primary refineries	156	26	35	26	49
U. S. Production % of U.S. consumption	72.35	62.82	71.17	68.02	64.10

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