

eraging from 0.50 to 0.55 percent WO_3 (tungsten trioxide). Through December 1970 all of the production was sold at a producers price of \$68.50 per stu.

Additional intermittent tungsten production and/or shipments were also reported from Mohave, and Santa Cruz Counties, Ariz.; Inyo, Madera, San Bernardino, and

Tulare Counties, Calif.; Lake County, Colo.; Custer County, Idaho; Churchill, Elko, Humboldt, and Pershing Counties, Nev.; and Tooele County, Utah. The exact source of small quantities of tungsten production in California, Nevada, and Montana was unknown and credited to "Undistributed."

Table 3.—Tungsten concentrate shipped from mines in the United States

Year	Quantity			Reported value f.o.b. mines ¹		
	Short tons 60 percent WO_3 basis	Short ton units WO_3 ²	Tungsten content (thousand pounds)	Total (thousand)	Average per unit of WO_3	Average per pound of tungsten
1966 ^r -----	7,530	451,772	7,166	\$15,038	\$33.29	\$2.10
1967 ^r -----	6,901	414,119	6,569	13,562	32.75	2.06
1968 ^r -----	8,264	495,891	7,866	19,377	39.07	2.46
1969 ^r -----	7,360	441,547	7,004	18,195	41.21	2.60
1970-----	8,194	491,621	7,798	21,890	44.53	2.81

^r Revised.

¹ Values apply to finished concentrate and are in some instances f.o.b. custom mill.

² A short ton unit equals 20 pounds of tungsten trioxide (WO_3) and contains 15.862 pounds of tungsten.

National Lead's antimony mill at Lovelock, Nev., was converted into a tungsten mill with the installation of new equipment and the rearrangement of existing mill circuits.

A commercial tungsten discovery by Silver Star-Queens Mines near Wells, Nev., was reportedly sufficient to warrant construction of a new mill. The limited exploration program conducted to date indicates an ore body of at least 30,000 tons, averaging 0.7 to 1.0-percent WO_3 . Until additional exploration is conducted to prove the extent of the ore body, no specific size for the mill can be determined. Initially, selective shipments of high-grade ore will be sent to Silver Star's tungsten mill at Gold Hill, Utah. The Gold Hill mill processes about 50 tons per day from Silver Star's nearby Yellow Hammer tung-

sten-copper mine. The concentrated Yellow Hammer ore was sold to Nevada Scheelite Division of Kennametal, Inc., at Fallon, Nev.

General Electric Co. (GE) awarded a tungsten concentrate purchase contract to Tungsten Properties Ltd., of Imlay, Nev. The contract will enable the Segerstrom family to reopen their property at Tungsten, Nev., which formerly operated as the Nevada-Massachusetts Co. A plant to process tailings was being constructed, and plans were underway for mining and concentrating tungsten ore.

A report issued during the year covered the number of employees, wages, value added in mining, cost of supplies, value of shipments, and capital expenditures in the tungsten ore and ferroalloy industries.²

Could be Gamble Ranch reported in M.Y. 1969 (Tecomac district)
No - See Wells

CONSUMPTION AND USES

Tungsten carbides continued to represent the major end use of tungsten, accounting for 46 percent of the total consumption. Consumption of intermediate tungsten products used to make the end use items was: tungsten carbide (38 percent), tungsten metal powder (34 percent), scheelite and scrap (21 percent), and ferrotungsten (7 percent).

Several special reviews of tungsten were published that discussed and evaluated

supply-demand patterns and projected these relationships to future years.³

² Bureau of the Census. 1967 Census of Mineral Industries: Tungsten Ores and Ferroalloy Ores, n.e.c. U.S. Department of Commerce, Prel. Rept. MIC67(P)-10C-3, March 1970, 6 pp.

³ American Metal Market. International Molybdenum Report, Sec. 2, Aug. 31, 1970, 16 pp.

Recycling: Practical Answer to the Problems of Air Pollution, Water Pollution, Solid Waste, Sec. 2, 1970 Secondary Metals Supp., Mar. 6, 1970, 42 pp.

Tungsten Section, Sec. 2, Feb. 16, 1970, 24 pp.

Griffith, Robert F. Tungsten. Ch. in Mineral Facts and Problems. BuMiner Bulletin 650, 1970, pp. 399-415.