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- a. Spruce Mountain district, Elko County, Nevada.
- b. Geographic coordinates: 40°34'N, 114°50'W.
- c. Status of exploitation: Production since 1949 has been small and intermittent, but some in 1957. There was intermittent production, 1870-1918, and continuous, though fluctuating, modest production 1918-1949; values in lead and silver, with zinc first becoming important in 1940's.
- d. References: Granger, A. E., Bell, H. M., Simmons, G. C., and Lee, Florence, 1957, Geology and mineral resources of Elko County, Nevada: Nev. Bur. Mines Bull. 54, p. 137-147.
- e. Adequacy of our present knowledge: Adequate. There are unpublished reports by Granger (1945) and H. C. Wheeler (1947).
- f. Topographic coverage: 1:62,500, 1953.
- g. Major mineralogic and geologic features: Bedded replacement and fissure replacement deposits in Mississippian limestone along fractures and faults, locally on contact between limestone and porphyry. Dikes of granite porphyry, diorite porphyry and lamprophyre, age not determined. Cerussite, limonite, wulfenite, some residual galena, locally smithsonite and celadine, an oxidized antimony mineral; copper ores (which tend to be segregated from the lead) include silicate, carbonate, chalcocite, minor bornite, chalcocite, and "copper pitch".

Cu-0
Pb-1
Zn-1
Ag-1
Au-0

Silver in the United States

(Data sheets for individual mining districts, prepared in conjunction with metallogenic map for 1960 International Geological Congress.)

Authorship:

- E. T. McKnight - All districts west of the Mississippi River, except most of those silver-producing districts containing less than 1,000 tons of lead or zinc in the following states: Arizona, New Mexico, Nevada, Oregon and Washington. Also the following silver districts in 4 of the states mentioned: Vulture¹ and Helvetia, Ariz.; *Ash Peak, Miami, Globe,* Apache, Black Range, Chloride Flat, Georgetown and Lake Valley, New Mexico; Ashwood and Granite, Oregon; Deertrail, Nespelam and Ruby-Conconully, Washington.
White Pine district, Michigan.
- A. V. Heyl, Jr. - All districts east of the Mississippi River (*except White Pine, Mich.*)
- Harry Klemic and W. L. Newman - Silver districts not associated with lead or zinc, in Arizona, New Mexico, Nevada, Oregon, and Washington (except as listed above).

Size categories of deposits (as penciled in left margins)

	0	1	2	3
Cu	Less than 1,000 tons	1,000 to 50,000 tons	50,000 to 1,000,000 tons	More than 1,000,000 tons
Pb	"	"	"	"
Zn	"	"	"	"
Ag	Less than 100,000 oz.	100,000 to 5,000,000 oz.	5,000,000 to 50,000,000 oz.	More than 1,000,000 oz. <i>50</i>
Au	Less than 10,000 oz.	10,000 to 100,000 oz.	100,000 to 1,000,000 oz.	More than 1,000,000 oz.

(NOTE: Categories for Au are less certain than for others.)

*District No. on
metallogenic map
penciled at lower
right.*