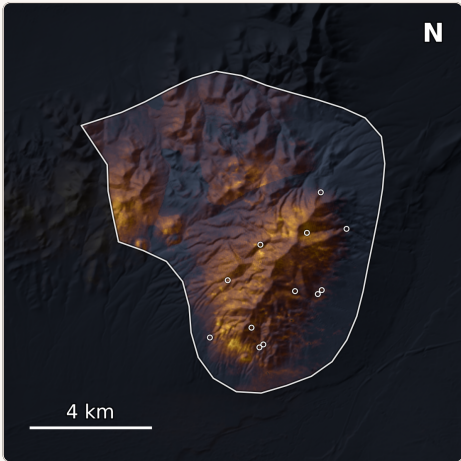




Modelled prospectivity, brighter is higher. White outline is the district boundary, white circles are recorded gold occurrences. Colour is scaled against each district's own region. Viewable in CARTA over imagery.

OVERVIEW

Every one of the twelve recorded deposits falls within the highest-scoring tenth of the withheld region, and the median deposit ranks in the top 1%. The class-coded records mix gold-quartz vein and polymetallic types in equal number. The score is carried with the caveats below rather than as a clean target.

LOGIC CHAIN

The largest contributions across the district's top decile are geodetic strain, the present-day rate at which the crust is extending, and shallow modelled depth to basement. Both are elevated across the whole district rather than concentrated in its best ground, varying by under a quarter of a standard deviation between the top decile and the rest, so they place Winnemucca regionally rather than pick targets inside it. Kriged soil barium and mercury contribute and the ground sits close to spectrally mapped phyllic alteration. None of that is diagnostic of the polymetallic vein and carbonate replacement the district's records describe, and half the class-coded records here are gold-quartz vein against half polymetallic.

COORDINATES

41.0066°N, 117.7672°W · UTM 11N 435,487E / 4,539,770N

DEPOSIT TYPE

Polymetallic vein and carbonate replacement in Triassic metasedimentary rocks. Not an epithermal system.

HELD-OUT MODEL PERFORMANCE IN THIS DISTRICT

Known deposits in top 25% of ranked ground	100%		1.00
Known deposits in top 10% of ranked ground	100%		1.00
Median deposit rank, against all ranked ground	top 0.9%		0.99
Peak score in district	0.836		0.84

NEAREST KNOWN ANALOG

Pride of the Mountain, the district's best-known workings and a producer of roughly \$1M in precious metals. Captured at 0.679, the highest-scoring named site in the district. Winnemucca Mountain Mine, a prospect rather than a producer, follows at 0.644.

LOCAL GEOLOGY

Veins and replacement bodies in hornfels and limestone on the flanks of Winnemucca Mountain. Gold- and silver-bearing quartz stringers in slates of the Raspberry Formation. Host rocks are Late Triassic. The age of mineralisation is not established. District production is roughly 35,000 oz Au through 1959.

DATA DENSITY

no geochemical sample falls inside the district; nearest rock sample 6.4 km out, 18 rock and 23 soil within 10 km · 12 recorded gold occurrences across 11 documented sites · no drill data

SUGGESTED NEXT ACTION

Lower priority where the target is epithermal Au-Ag. If polymetallic Au-Ag is in scope, walk Pride of the Mountain (scored 0.679) and Winnemucca Mountain Mine (0.644). Aeromagnetic drone survey deferred pending confirmation of the deposit class.

KNOWN UNKNOWNs

Twelve recorded deposits is a thin basis for a district-level conclusion. Only four carry a deposit-model code at all, split evenly between gold-quartz vein and polymetallic vein. The district's class composition is asserted on a third of its records. The age of mineralisation is unconstrained. Whether this system is contemporaneous with the Miocene targets cannot be established.

