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Preliminary map of the resource areas in the Basin and Range Province of Idaho

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The purpose of this map is to identify the mineralized areas within the Basin and Range Province. These areas include localities of past or present mining and prospecting activity as well as areas believed to contain potential resources based on projection of geologic data. This is a preliminary evaluation and is subject to review and the identification of future occurrences.

The limits of the resource areas shown on the accompanying map are not legal mining district boundaries and may include more than one district as well as adjacent areas having comparable resource potential. Informal names are used for those areas that have no formal name.

The Basin and Range area of Idaho, based on Fenneman (1946), is situated in the southeastern part of the state. Various interpretations of the boundary have been made by others which, if used, would have included some of the districts beyond Fenneman's border. The plot of the individual mines, county and state borders were made by using the Cartographic Automatic Mapping (CAM) Program (Central Intelligence Agency, 1977) on a Zeta 3600S plotter. A Lambert conformal conic projection based on standard parallels 33 degrees and 45 degrees was used as the base map.

The locations of the individual mines were obtained from the Mineral Resource Data System (MRDS) [formerly the Computerized Resource Information Bank (CRIB)]. The MRDS data for Idaho is incomplete for nonmetallics and any mine locations not present in the file have not been plotted on the map. However, the file is believed to include a representative sample of the mineralized regions. The metallic deposits are plotted as a plus (+) and the nonmetallics are plotted as a cross (X). Otherwise the localities are not distinguished by size, type, commodity, or production.

Table 1 contains information on the commodity, deposit type, host rocks, and most pertinent references for the districts. It is organized alphabetically by county and district name. The reference numbers to sources of data shown in table 1 correspond with those in the list of references cited.

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Table 1.--District descriptions

Mining district	Location Township	Range	Commodities	Deposit type	Host rock	References
BANNOCK COUNTY						
Daniels area	10 S. 11 S. 12 S. 12 S. 13 S. 13 S.	35 E. 35 E. 35 E. 36 E. 35 E. 36 E.	Au, Ag, Pb, U, pumice, perlite, peat	Replacement Volcanic	Limestone Volcanic Ash	3, 19
Downey area	13 S.	37 E.	Au, Ag	Vein	Quartzite (?)	6
Inkom area	7 S.	37 E.	Cu, Pb, Au	Vein	Quartzite	6
Lava Hot Springs	8 S. 9 S. 10 S.	38 E. 38 E. 39 E.	Pb, Ag, Al, Mn, silica	Bedded Replacement(?)	Limestone, quartzite Quartzite	6, 20
Pocatello area	6 S. 6 S.	35 E. 36 E.	Cu, Au, Pb, Ag	Replacement Vein	Shaley Limestone Conglomerate, Volcanic Tuff Volcanic Tuff	6
Scout Mountain area	7 S. 7 S. 8 S. 8 S. 8 S.	35 E. 36 E. 34 E. 35 E. 36 E.	Cu, Pb, Au, Cu	Replacement Vein Bedded	Siltstone, Shale Quartzite, Shaley Limestone Conglomerate Gravel	6
BINGHAM COUNTY						
Blackfoot River Reservoir	3 S. 3 S. 4 S. 4 S.	40 E. 41 E. 40 E. 41 E.	P, F	Bedded chemical sediments	Phosphoria Formation	14, 16, 19, 24
Fort Hall	4 S. 4 S.	37 E. 38 E.	P	Bedded	Phosphoria Formation	13, 19, 24
Mount Taylor	1 S. 1 S. 2 S.	38 E. 39 E. 39 E.	P, F, V, limestone	Bedded	Phosphoria Formation	16, 19, 24
BONNEVILLE COUNTY						
Blackfoot River Reservoir	5 S.	42 E.	P	Bedded	Phosphoria Formation	24
Pine Mountain area	1 S.	41 E.	U, coal	Bedded	Carbonaceous shales of Wayan Formation	12, 13, 29
Willow Creek-Caribou	2 N. 2 N. 1 N. 1 N. 1 N. 1 S. 1 S. 1 S. 2 S. 2 S.	40 E. 41 E. 40 E. 41 E. 42 E. 41 E. 42 E. 43 E. 42 E. 43.E.	P, U, V, Ge, Mo, coal, limestone	Bedded	Carbonaceous shales of Bear River Formation or Wayan Formation Phosphoria Formation	3, 4, 8, 11, 12, 13, 19, 23, 24, 25, 27, 29, 30
CARIBOU COUNTY						
Blackfoot River	5 S. 5 S. 5 S. 6 S. 6 S. 6 S. 7 S. 7 S. 7 S.	42 E. 43 E. 44 E. 42 E. 43 E. 44 E. 42 E. 43 E. 44 E.	P, U, V, F, rare earths	Bedded	Phosphoria Formation	14, 17, 18, 24,
Blackfoot River Reservoir	5 S. 5 S. 5 S. 6 S. 6 S.	40 E. 41 E. 42 E. 40 E. 41 E.	P	Bedded	Phosphoria Formation	14, 17, 18, 21, 24
Chesterfield	5 S. 5 S. 5 S. 6 S. 6 S. 6 S.	38 E. 39 E. 40 E. 38 E. 39 E. 40 E.	P, V	Bedded	Phoephoria Formation	14, 15, 17, 18, 24
Fort Hall	5 S.	38 E.	P	Bedded	Phosphoria Formation	7, 13, 15, 16
Trail Creek	7 S. 7 S. 8 S. 8 S. 9 S. 9 S. 10 S.	42 E. 43 E. 42 E. 43 E. 42 E. 43 E. 43 E.	P, V, U, rare earth, F, Sulphur	Bedded	Phosphoria Formation	14, 17, 18, 21 22, 24, 26
CASSIA COUNTY						
Almo area	15 S. 15 S.	23 E. 24 E.	U, Th, rare earth	Accessory grains Disseminated Placer	Granitic rocks Pegmatites Alluvium	2
Black Pine	15 S.	29 E.	Au, Ag, Pb, Zn, Cu, Fe, Hg, Sb, As	Vein Replacement Gossan	Limestone, shale Limestone, shale Limestone, sandstone	1
FRANKLIN COUNTY						
Cleveland area	12 S. 13 S.	41 E. 40 E.	Mn	Replacement	Clay, sand, marl	9, 10, 28
Clifton area	14 S.	38 E.	Limestone	Sedimentary	Paleozoic limestones	19
Treasureton area	13 S.	40 E.	Limestone	Sedimentary	Paleozoic limestones	19

Mining district	Location Township	Range	Commodities	Deposit type	Host rock	References
				ONEIDA COUNTY		
Daniels Area	(Look under Bannock County)					
Downy area	(Look under Bannock County)					
Malad Range area	14 S.	36 E.	Limestone	Sedimentary	Paleozoic limestone	19
				POWER COUNTY		
Pocatello area	7 S. 7 S.	33 E. 34 E.	Silica	Bedded	Brigham quartzite	3, 5, 13, 19

APPENDIX A

References for table 1

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