



EXPLANATION

Value of manganese (X.I) expressed in parts per million after the data were treated as follows: The data were gridded to a rectangular coordinate system with mesh points 1,000 feet apart. The original data points were transferred to grid coordinates of mesh points by drawing a circle of radius 500 feet around each mesh point, and shifting the coordinates of data points within each circle to the coordinates of the mesh point. Accompanying the shift of coordinates, each point was weighted according to its distance from the mesh point; as a result, close-lying data points had more influence than outlying data points on the final value used at the mesh point. After data points were weighted and projected to a mesh point, the multiplicity of values created at the mesh point was removed by averaging.

- 1 At least one data point within the search area about the mesh point has a value less than the lower limit of determination for the analytical method (L = 10 ppm)
- 6 At least one data point within the search area about the mesh point has a value greater than the upper limit of determination for the analytical method (U = 5,000 ppm)

- 1000 Isopleth defining areas where samples contain more than 1000, 2000, 3000, 4000 or 5000 parts per million on manganese. Dashed where inferred.
- 3000 No isopleth below 1000 or above 5000.
- 4000 Data computation and program by Jack L. Fife
- 5000 Data reduction by Theodore M. Billings

Concentration of manganese was determined by spectrographic analysis. Determinations were made by Elvin L. Mosler, Jerry M. Mooka and David J. Grimes.

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<p>Quaternary</p> <ul style="list-style-type: none"> Qol Alluvial deposits Og Glacial and glaciofluvial deposits QTog Channel and terrace gravels Km Monzonite and associated rocks Di Diorite sill 	<p>Tertiary</p> <ul style="list-style-type: none"> Sp Striped Peak Formation Wf Wallace Formation St St. Regis Formation Re Reyer and Burke Formations pr Reyer Formation ps Burke Formation Pr Pritchard Formation 	<p>Precambrian</p>
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Dashed where approximately located

- - - Fault
Dashed where approximately located, dotted where concealed

Base from U.S. Geological Survey: Kingston, Kelllogg, Burke, St. Joe, Calder, Wallace, 1957; Cooper Gulch, Saltese, 1956

Geology west of 115°42'30" from S. W. Hobbs and others (1965); geology east of 115°42'30" from R. E. Wallace and J. W. Hosterman (1956)

Geochemical distribution of selected metals in rocks, Coeur d'Alene district, Idaho
By Garland B. Gott and John B. Cathrall
1974

Distribution of Manganese (X.I) in rocks of the Coeur d'Alene district, Idaho

OPEN-FILE REPORT
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

CORRECTED 11/4/74
CORRECTED - 8/23/74