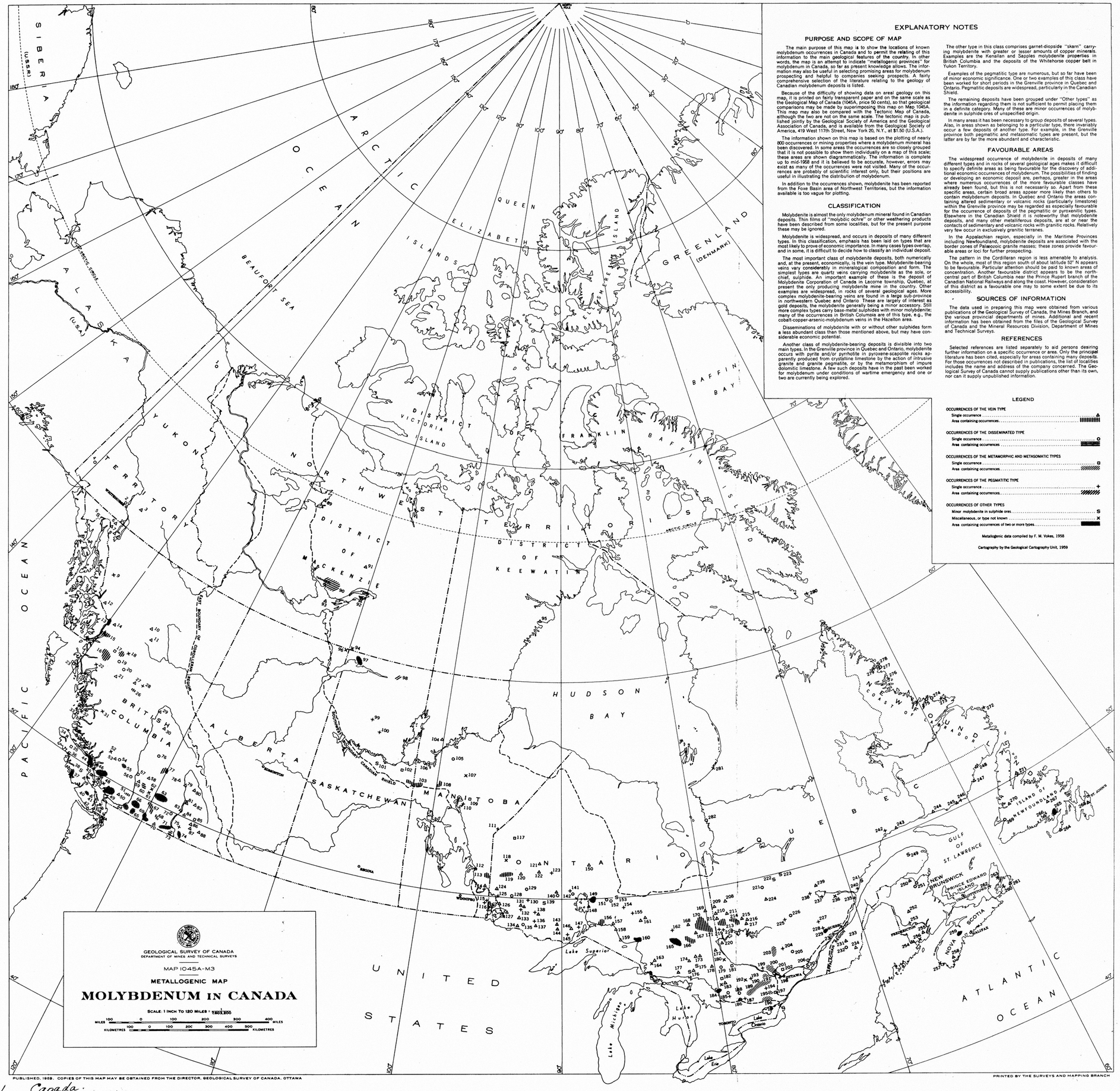


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# EXPLANATORY NOTES

## PURPOSE AND SCOPE OF MAP

The main purpose of this map is to show the locations of known molybdenum occurrences in Canada and to permit the relating of this information to the main geological features of the country. In other words, the map is an attempt to indicate "metallogenic provinces" for molybdenum in Canada, so far as present knowledge allows. The information may also be useful in selecting promising areas for molybdenum prospecting and helpful to companies seeking prospects. A fairly comprehensive selection of the literature relating to the geology of Canadian molybdenum deposits is listed.

Because of the difficulty of showing data on areal geology on this map, it is printed on fairly transparent paper and on the same scale as the Geological Map of Canada (1045A, price 50 cents), so that geological comparisons may be made by superimposing this map on Map 1045A. This map may also be compared with the Tectonic Map of Canada, although the two are not on the same scale. The tectonic map is published jointly by the Geological Society of America and the Geological Association of Canada, and is available from the Geological Society of America, 419 West 117th Street, New York 20, N.Y., at $1.50 (U.S.A.).

The information shown on this map is based on the plotting of nearly 800 occurrences or mining properties where a molybdenum mineral has been discovered. In some areas the occurrences are so closely grouped that it is not possible to show them individually on a map of this scale; these areas are shown diagrammatically. The information is complete up to mid-1958 and it is believed to be accurate, however, errors may exist as many of the occurrences were not visited. Many of the occurrences are probably of scientific interest only, but their positions are useful in illustrating the distribution of molybdenum.

In addition to the occurrences shown, molybdenite has been reported from the Foxe Basin area of Northwest Territories, but the information available is too vague for plotting.

## CLASSIFICATION

Molybdenite is almost the only molybdenum mineral found in Canadian deposits. Thin films of "molybdic ochre" or other weathering products have been described from some localities, but for the present purpose these may be ignored.

Molybdenite is widespread, and occurs in deposits of many different types. In this classification, emphasis has been laid on types that are most likely to prove of economic importance. In many cases types overlap, and in some, it is difficult to decide how to classify an individual deposit.

The most important class of molybdenite deposits, both numerically and, at the present, economically, is the vein type. Molybdenite-bearing veins vary considerably in mineralogical composition and form. The simplest types are quartz veins carrying molybdenite as the sole, or chief, sulphide. An important example of these is the deposit of Molybdenite Corporation of Canada in Lacorne township, Quebec, at present the only producing molybdenite mine in the country. Other examples are widespread, in rocks of several geological ages. More complex molybdenite-bearing veins are found in a large sub-province in northwestern Quebec and Ontario. These are largely of interest as gold deposits, the molybdenite generally being a minor accessory. Still more complex types carry base-metal sulphides with minor molybdenite; many of the occurrences in British Columbia are of this type, e.g., the cobalt-copper-arsenic-molybdenum veins in the Hazelton area.

Disseminations of molybdenite with or without other sulphides form a less abundant class than those mentioned above, but may have considerable economic potential.

Another class of molybdenite-bearing deposits is divisible into two main types. In the Grenville province in Quebec and Ontario, molybdenite occurs with pyrite and/or pyrrhotite in pyroxene-scapolite rocks apparently produced from crystalline limestone by the action of intrusive granite and granite pegmatite, or by the metamorphism of impure dolomitic limestone. A few such deposits have in the past been worked for molybdenum under conditions of wartime emergency and one or two are currently being explored.

The other type in this class comprises garnet-diopside "skarn" carrying molybdenite with greater or lesser amounts of copper minerals. Examples are the Kenallan and Sappiles molybdenite properties in British Columbia and the deposits of the Whitehorse copper belt in Yukon Territory.

Examples of the pegmatitic type are numerous, but so far have been of minor economic significance. One or two examples of this class have been worked for short periods in the Grenville province in Quebec and Ontario. Pegmatitic deposits are widespread, particularly in the Canadian Shield.

The remaining deposits have been grouped under "Other types" as the information regarding them is not sufficient to permit placing them in a definite category. Many of these are minor occurrences of molybdenite in sulphide ores of unspecified origin.

In many areas it has been necessary to group deposits of several types. Also, in areas shown as belonging to a particular type, there invariably occur a few deposits of another type. For example, in the Grenville province both pegmatitic and metasomatic types are present, but the latter are by far the more abundant and characteristic.

## FAVOURABLE AREAS

The widespread occurrence of molybdenite in deposits of many different types and in rocks of several geological ages makes it difficult to specify definite areas as being favourable for the discovery of additional economic occurrences of molybdenum. The possibilities of finding or developing an economic deposit are, perhaps, greater in the areas where numerous occurrences of the more favourable classes have already been found, but this is not necessarily so. Apart from these specific areas, certain broad areas appear more likely than others to contain molybdenum deposits. In Quebec and Ontario the areas containing altered sedimentary or volcanic rocks (particularly limestone) within the Grenville province may be regarded as especially favourable for the occurrence of deposits of the pegmatitic or pyroxenitic types. Elsewhere in the Canadian Shield it is noteworthy that molybdenite deposits, and many other metalliferous deposits, are at or near the contacts of sedimentary and volcanic rocks with granitic rocks. Relatively very few occur in exclusively granitic terranes.

In the Appalachian region, especially in the Maritime Provinces including Newfoundland, molybdenite deposits are associated with the border zones of Palaeozoic granite masses; these zones provide favourable areas or loci for further prospecting.

The pattern in the Cordilleran region is less amenable to analysis. On the whole, most of this region south of about latitude 52° N appears to be favourable. Particular attention should be paid to known areas of concentration. Another favourable district appears to be the north-central part of British Columbia near the Prince Rupert branch of the Canadian National Railways and along the coast. However, consideration of this district as a favourable one may to some extent be due to its accessibility.

## SOURCES OF INFORMATION

The data used in preparing this map were obtained from various publications of the Geological Survey of Canada, the Mines Branch, and the various provincial departments of mines. Additional and recent information has been obtained from the files of the Geological Survey of Canada and the Mineral Resources Division, Department of Mines and Technical Surveys.

## REFERENCES

Selected references are listed separately to aid persons desiring further information on a specific occurrence or area. Only the principal literature has been cited, especially for areas containing many deposits. For those occurrences not described in publications, the list of localities includes the name and address of the company concerned. The Geological Survey of Canada cannot supply publications other than its own, nor can it supply unpublished information.

## LEGEND

OCCURRENCES OF THE VEIN TYPE
- Single occurrence
- Area containing occurrences

OCCURRENCES OF THE DISSEMINATED TYPE
- Single occurrence
- Area containing occurrences

OCCURRENCES OF THE METAMORPHIC AND METASOMATIC TYPES
- Single occurrence
- Area containing occurrences

OCCURRENCES OF THE PEGMATITIC TYPE
- Single occurrence
- Area containing occurrences

OCCURRENCES OF OTHER TYPES
- Minor molybdenite in sulphide ores
- Miscellaneous, or type not known
- Area containing occurrences of two or more types

Metallogenic data compiled by F. M. Vokes, 1958

Cartography by the Geological Cartography Unit, 1959

# LOCALITIES

1. Mount Fitton occurrence, Richardson Mtns. Ref. 1, p. 10
2. Whitehorse district. Ref. 2, pp. 42-53
3. Boswell River occurrence, Teslin district. Refs. 3, p. 12; 4, p. 24
4. Steele (Wolf) Creek occurrence. Ref. 5, pp. 28, 42
5. Adams occurrence, Rainy Hollow district. Ref. 6, p. 49
6. Bennett Lake occurrence. Refs. 6, p. 49; 7, p. 125
7. White Pass Tunnel occurrence. Ref. 8, p. 114
8. Engineer occurrence. Ref. 9, p. 52
9. Barrington River occurrence, Telegraph Creek district. American Metals-Climax Inc.
10. McConnell Creek, Cassiar district. Ref. 10, p. 64
11. Croydon and Porphyry Creek groups, Aiken Lake area. Ref. 11, pp. 33-35
12. Bronson Creek and Johnny Mountain occurrences, Iskut River area. Refs. 12, p. 59A; 13, p. 49
13. Stewart area, Portland Canal (4 occurrences). Ref. 14, p. 91; 15, pp. 33, 40-41
14. Fitzgerald occurrence, Meziadin Lake. Refs. 6, p. 51; 14, p. 91
15. Alice Arm district (5 occurrences). Refs. 6, p. 51; 7, p. 124; 14, pp. 61-67, 91; 16, pp. 37-38, 86
16. Terrace area, Skeena River (8 occurrences). Refs. 14, pp. 93-94; 17, pp. 15-17, 23-24, 35; 18, pp. 33, 41-43
17. New Hazelton area (6 occurrences). Refs. 14, pp. 81-82; 17, pp. 69-70; 19, pp. 44-47, 50-55; 20, pp. 7-14, 20-23, 25-26
18. Thorn prospect, Suskwa River. Ref. 14, p. 82
19. Glacier Gulch, near Smithers. Ref. 16, p. 102
20. Butte occurrence, Mineral Hill. Ref. 21, 1927, pp. 138-139
21. Grubstake group. Ref. 21, 1929, p. 175
22. Emma and North Star claims, Kitimat Arm. Ref. 14, p. 93
23. Marble prospect, Banks Island. Ref. 21, 1929, p. 75
24. Butedale occurrence, Princess Royal Island. Ref. 6, p. 12
25. Hidden Lake occurrence, James Island. Ref. 21, 1929, p. 67
26. Endako area (3 occurrences). Refs. 14, pp. 11-16; 17, pp. 163-165; 22, pp. 26-28
27. Radio Gold Mines Ltd., Babine Lake. Ref. 17, pp. 158, 161; 22, pp. 135, 182
28. Shass (Grizzly) Mountain, Stuart Lake area. Ref. 23, p. 11
29. Black Cat and Wild Cat occurrences, Corless Creek. Ref. 21, 1934, p. 18C
30. Columbia Tungstens Co. Ltd., Hardscrabble Creek. Ref. 21, 1918; pp. 136-136
31. Merkel prospect, Bella Coola area. Ref. 14, p. 79
32. Shonovitch prospect, Bella Coola area. Ref. 14, p. 79
33. Heino prospect, Bella Coola area. Refs. 7, p. 124; 14, p. 79
34. Goodspeed property, Quatsino area. Ref. 14, p. 96
35. Nimpkish Copper group, Nimpkish Lake. Refs. 21, 1929, pp. 381-383; 24, pp. 127-128
36. Zeballos area (3 occurrences). Refs. 25, pp. 20-21; 26, p. 48
37. Bedwell Sound area (4 occurrences). Refs. 14, p. 96; 28, p. 25; 29, pp. 30, 86
38. Brown claims, Albert Edward Peak. Ref. 21, pp. 73-74
39. Fanny Bay occurrence. Refs. 6, p. 50; 14, p. 95
40. Cowichan Lake area (4 occurrences). Refs. 6, pp. 47-48; 9, p. 51; 14, pp. 73-76, 94; 21, 1919, p. 239
41. Thistle claim, near Ladysmith. Ref. 30, pp. 125-126
42. Sooke Peninsula occurrences. Refs. 21, 1948, pp. 162-170; 1951, p. 200
43. Grayson-Otto occurrence, Knight Inlet. Refs. 7, p. 125; 14, p. 85
44. Cortes Island-Sonora Island area (4 occurrences). Refs. 14, pp. 85-86; 21, 1922, p. 241
45. Northern Texada Island (2 occurrences). Refs. 9, p. 51; 31, pp. 44-47
46. Jervis Inlet area (5 occurrences). Refs. 7, p. 125; 14, pp. 47-50, 85-86
47. Sakinaw Lake occurrences, Sechelt peninsula. Ref. 32, p. 40
48. Clowhom River occurrences. Refs. 9, p. 52; 14, p. 85
49. Howe Sound-Pitt River area (10 occurrences). Refs. 6, pp. 38-39, 48, 52; 9, p. 52; 14, pp. 58-61, 84-86, 90; 21, 1929, p. 399C; 33, p. 117
50. Stave Lake area. Ref. 6, p. 51; 14, p. 90
51. Squuzum Creek-Harrison Lake area (3 occurrences). Refs. 6, pp. 48, 52; 14, p. 89
52. Franklin Arm, Chilko Lake. Refs. 6, p. 49; 14, p. 80
53. Hi Do Gold deposit, Taseko Lake area. Ref. 21, 1937, p. F6
54. Taylor's deposit, Taseko River. Ref. 34, p. 89
55. Bridge River area (2 occurrences). Refs. 35, p. 99; 36
56. Texas Creek area (2 occurrences). Refs. 6, p. 34; 14, p. 84
57. Gold Ridge and Frances, Sallus Creek. Ref. 21, 1935, pp. 12-13F
58. Red Lake area (3 occurrences). Refs. 14, p. 83; 37, pp. 80-81
59. Martel property. Ref. 14, pp. 9-11
60. Highland Valley area (4 occurrences). Refs. 6, p. 51; 14, pp. 86-87; 37, pp. 116-117, 122-124
61. Pearson occurrences, Stump Lake. Ref. 14, p. 83
62. South Beresford, near Knutsford. Ref. 14, p. 82
63. Vernon area (5 occurrences). Refs. 6, pp. 33, 52; 14, pp. 28-33, 95
64. Hope area (6 occurrences). Refs. 6, p. 48; 7, p. 126; 14, pp. 88-89; 21, 1918, pp. 286-287
65. Skagit River area (5 occurrences). Refs. 6, pp. 48, 52; 21, 1927, p. 211; 38, pp. 102-104; 39, pp. 36-41
66. Tulameen area (6 occurrences). Refs. 6, pp. 44, 51; 7, p. 127; 14, pp. 89, 92; 40, pp. 162-163; 36, p. 114
67. Okanagan Lake area (3 occurrences). Refs. 14, p. 90; 38, p. 110; 41, p. 42
68. Carmi area, Westkettle River (3 occurrences). Refs. 6, p. 49; 14, p. 81; 21, 1903, p. 184; 42, p. 129
69. Keremeos area (7 occurrences). Refs. 14, pp. 90, 92; 21, 1929, p. 248C; 38, pp. 47-50; 41, pp. 19, 25-26, 36
70. Camp McKinney area, near Bridesville (2 occurrences). Refs. 7, p. 127; 14, p. 81
71. Greenwood-Farron area (9 occurrences). Refs. 7, p. 127; 14, pp. 16-20; 21, 1903, p. 179, 1932, p. 123; 43, p. 138
72. Pilot and Uta claims, Lightning Peak area. Ref. 44, p. 115
73. Rossland area (6 occurrences). Refs. 6, pp. 46-47; 14, p. 93; 45, pp. 141-144, 146-149, 163-165
74. Salmo area (10 occurrences). Refs. 6, pp. 36, 50; 9, pp. 54-55; 14, pp. 51-57, 87; 45, p. 78; 46, pp. 85-88
75. Kootenay River, near Nelson. Ref. 6, p. 50; 9, p. 55
76. Boss (Timothy) Mountain, Lac la Hache area. Ref. 14, pp. 34-47.
77. North Thompson River area (4 occurrences). Refs. 14, pp. 20-28, 33-34; 47, pp. 150-153
78. Cotton Belt, Grace Mountain. Ref. 6, p. 50
79. Hard Pan and Sterling groups. Refs. 14, pp. 70-73; 21, 1932, p. 181A
80. White Pass, near Glacier Station. Ref. 7, p. 125
81. Trout Lake area (3 occurrences). Refs. 9, p. 54; 14, p. 83
82. Garvey and Foss claims, Duncan River. Refs. 6, p. 31; 14, p. 84
83. Nakusp area, Arrow Lake (2 occurrences). Refs. 6, p. 49; 7, p. 128; 14, p. 87
84. Rosebery area (2 occurrences). Refs. 14, p. 86; 21, 1942, p. 77
85. Peg Leg, Fry Creek. Ref. 14, p. 88; 21, 1926, p. 260
86. Peggy claim, near Riondel. Ref. 21, 1924, p. 188
87. Gray Creek prospects (2 occurrences). Refs. 14, pp. 50-51; 21, 1918, p. 159
88. Kimberley area (2 occurrences). Refs. 6, p. 33; 14, p. 80
89. Eldorado mine, Port Radium. Ref. 48, pp. 22, 24, 36
90. Yellowknife-Beaulieu region (8 occurrences). Refs. 49, pp. 11, 18-19, 38; 50, pp. 76-78, 85-86
91. Matthews Lake Sheet occurrence. Ref. 51, p. 45
92. Rag group, Stark Lake. Ref. 52, p. 65
93. International Tungsten Mines Ltd., Outpost Island. Ref. 50, pp. 236-240
94. Robb property. Ref. 53, p. 4
95. Term Point, Rankin Inlet. Ref. 54, p. 44C
96. Andrew Lake area. Ref. 55
97. Goldfields-Tazin Lake area (7 occurrences). Refs. 52, p. 104; 56, pp. 81, 107-108
98. Black Lake-Charlebois Lake area (3 occurrences). Ref. 52, pp. 106-109, 112; 57, p. 25
99. Holgar occurrence, Cree Lake area. Ref. 58, p. 13
100. Foster Lake area. Ref. 59, p. 36
101. Moose Point, Lac La Ronge. Ref. 60
102. Pelican Lake occurrence. Ref. 61, p. 49
103. Flin Flon-Cranberry Portage area (5 occurrences). Refs. 62, pp. 68-69; 63, pp. 26, 30-31
104. Barrington Lake Copper Mines. Ref. 64, pp. 15-16
105. Footprint Lake, Uhlman Lake area. Ref. 65, p. 5
106. Pukatawagan Lake occurrence. Ref. 66, p. 90
107. Wintering Lake area (3 occurrences). Ref. 67, pp. 25-26
108. Herb Lake area (3 occurrences). Ref. 6, p. 55; 68, pp. 36, 38, 92, 112-113; 69, p. 112
109. Echimamish River. Ref. 6, p. 56
110. Little Playgreen Lake. Ref. 70, pp. 6, 16
111. Gorman Lake occurrence. Ref. 71, p. 14
112. Wanipigow River area (3 occurrences). Refs. 6, p. 56; 72, p. 19
113. Rice Lake-Garner Lake area (4 occurrences). Refs. 6, p. 56; 73, p. 11
114. Lac du Bois and Shatford Lake deposits. Ref. 74, p. 99
115. Falcon Lake area (3 occurrences). Refs. 6, pp. 54-55; 76, pp. 130-131
116. Shoal Lake area (3 occurrences). Refs. 6, p. 115; 77, p. 299
117. Oliver claims, Setting Net Lake. Ref. 77, pp. 78-81
118. Hornblendite Lake occurrence. Ref. 78, p. 17
119. Red Lake area. Ref. 79, p. 65
120. Corless Patricia Gold Mines, Corless township. Ref. 80, p. 25
121. Lang Lake occurrence. Ref. 81, p. 18
122. Connell-Williams-Stirret group, Wesleyan Lake. Ref. 81, p. 22
123. Carpentier Lake occurrence. Ref. 82, p. 69
124. P. Dusang claims, English River. Ref. 83, p. 39
125. Cameron property, near Minaki. Ref. 52, p. 118
126. Sultana Gold Mine. Ref. 76, p. 299
127. Gold Panner Mine. Ref. 84, pp. 80-81
128. Quibell occurrences, Redvers township. Ref. 101
129. Lac Seul occurrence. Ref. 6, p. 115
130. Echo and Webb townships (3 occurrences). Refs. 6, p. 77; 76, pp. 297-298; 82, p. 37
131. Contact Bay, Wabigoon Lake. Ref. 76, p. 313
132. Upper Manitou Lake area (2 occurrences). Refs. 6, p. 77; 76, p. 304
133. Lower Manitou Lake area (2 occurrences). Refs. 9, p. 49; 76, p. 310; 86, p. 18
134. Bear Pass, Rainy Lake. Refs. 6, p. 117; 76, p. 309
135. Mine Centre occurrence. Ref. 6, p. 117
136. Crow Rock-Turtle Lake occurrences. Ref. 87, p. 10
137. Steep Rock Lake. Ref. 76, p. 312
138. Ignace occurrences (4 occurrences). Refs. 76, p. 299; 88, pp. 6-7, 9
139. Young Lake, Sturgeon Lake area. Ref. 89
140. Harvey and Sässenaga Lake occurrences. Ref. 90, pp. 24, 25, 28
141. Tamarack Lake. Refs. 6, p. 109; 76, p. 312; 91, p. 194
142. Tunnel Lake occurrence. Ref. 91, p. 191
143. Lac des Mille Lacs. Ref. 9, p. 56
144. Shebandowan Lake, Hagey and Haines townships. Ref. 92
145. Young-Walsh property, Conmee township. Refs. 6, p. 107; 76, p. 295
146. Jacques township. Ref. 93, pp. 10, 16
147. McTavish township. Refs. 6, p. 108; 93, p. 10
148. Murgeon River occurrences (2 occurrences). Ref. 94, p. 79, 88-91
149. Onaman Lake area (4 occurrences). Ref. 95, pp. 18, 27
150. Reserve Lake area. Ref. 96, pp. 27-28
151. Nakina Molybdenum, Burrows Lake. Ref. 6, p. 107
152. Longlac occurrence. Ref. 76, p. 302
153. Pine Lake occurrence, Chipman township. Ref. 91, p. 197
154. White Otter Lake occurrence. Ref. 97, p. 3
155. Hornepayne occurrence. Ref. 97, p. 3
156. Schreiber area (6 occurrences). Refs. 6, p. 108; 76, p. 289; 98, pp. 1, 7, 11, 14-15, 20-23; 99, pp. 36, 40
157. Heron Bay area. Ref. 100
158. Playter Harbour occurrence. Ref. 101
159. Terrace Cove deposit. Refs. 6, pp. 108-9; 9, p. 22; 76, p. 312
160. Michipicoten area (3 occurrences). Refs. 6, p. 112; 76, p. 305
161. Oba occurrences. Refs. 6, p. 112; 102, p. 125
162. Foleyet occurrences. Ref. 102, p. 125
163. Goulais Iron Range. Ref. 102, p. 23
164. Gaudette township (2 occurrences). Refs. 104, p. 182; 105, p. 19
165. Women River area (6 occurrences). Refs. 106, pp. 28-30; 107, pp. 75-76; 108, p. 27; 109, p. 51; 110, p. 22
166. Gogama area (4 occurrences). Refs. 107, p. 68; 111, pp. 25, 152; 112, pp. 59-60
167. Matachewan area (3 occurrences). Refs. 111, p. 74; 113, p. 635
168. West Dome Lake Mine. Ref. 114, p. 53
169. Duke Molybdenite Mining Syndicate, near Mace.
170. Playfair, Rickard and Beatty townships (4 occurrences). Refs. 6, p. 119; 76, p. 286; 115, p. 20
171. Kirkland Lake area (25 occurrences). Refs. 6, pp. 109-111; 76, p. 299; 113, pp. 635, 657; 116, pp. 13-17, 27-28
172. Nat Lake occurrence, Strathy township. Ref. 6, pp. 81-82; 76, p. 306
173. Roberts and Fraleck townships. Ref. 6, p. 106; 100
174. Hess township. Ref. 117, p. 67
175. Murray Mine, Sudbury area. Ref. 118, pp. 24-25
176. Worthington Mine and Vermilion River occurrences. Ref. 76, pp. 297, 313
177. Whiskey Lake occurrence. Ref. 119, p. 17
178. Lavallee property, Kirkpatrick township. Ref. 100
179. Manitou Island, Lake Nipissing. Ref. 120, p. 44
180. Garrow township. Ref. 76, p. 295
181. Talon Chute occurrence. Refs. 6, p. 81; 9, p. 48
182. Lount township. Ref. 121, p. 42
183. Spence and Ryerson townships. Refs. 6, p. 117; 101
184. Parry Sound area (4 occurrences). Refs. 6, p. 117; 76, p. 295; 122, p. 48
185. Bracebridge area. Refs. 6, p. 116; 76, pp. 305-307.
186. Digby, Laxton, Somerville and Lutterworth townships (7 occurrences). Refs. 6, pp. 72-73, 110-111; 9, pp. 39-40; 76, pp. 299-302
187. Glamorgan township (3 occurrences). Refs. 6, pp. 65, 113; 123, pp. 64-65
188. Stanhope township. Ref. 101
189. Monmouth, Cardiff, Faraday and Herschel townships (30 occurrences). Refs. 6, 7, 9, 76, 123
190. Monteagle, Dungannon, Raglan, Lyndoch townships (14 occurrences). Refs. 6, 7, 9, 76, 124, 125
191. Rentrew area (40 occurrences). Refs. 6, 7, 9, 76, 124, 126
192. Airy township. Ref. 6, p. 116
193. Burns township. Ref. 124, p. 82
194. Miller township (4 occurrences). Refs. 6, p. 65; 9, pp. 44-45; 76, p. 305
195. Olden township (5 occurrences). Refs. 6, pp. 65, 112; 127, pp. 89-90
196. Kaladar, Kennebec, Sheffield, Hinchinbrooke and Portland townships (13 occurrences). Refs. 6, pp. 78-80, 115-116; 7, p. 117; 9, pp. 43-44; 76, p. 311; 127, p. 90
197. North Crosby township. Refs. 9, p. 45; 76, pp. 308-309
198. March township. Refs. 9, p. 44; 76, p. 304
199. Waltham township. Ref. 128, pp. 104-105
200. Gatineau-Pontiac area (50 occurrences). Refs. 6, 7, 9, 101
201. Moss Mine Quyon. Refs. 6, pp. 150-155; 129, p. 64
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203. Maniwaki-Baskatong area (15 occurrences). Refs. 6, pp. 134-137, 157-158; 9, p. 30; 129, pp. 129-132
204. Lamarche deposit, Campbell township. Ref. 100
205. Cheffkuk claims, Marchand township. Ref. 100
206. St. Jerome occurrence. Ref. 9, p. 22
207. Oka area, Oka Rare Metal Mining Co., Ltd.
208. Céloron and Carqueville townships. Ref. 130, pp. 26-27
209. Perron township. Ref. 130, p. 70
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211. Privat and Launay townships. Refs. 52, pp. 34-35; 130, pp. 419-420
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213. Noranda area (11 occurrences). Refs. 113, pp. 783-789; 130, p. 122; 131 pp. 16-18
214. Preissac-La Corne area (18 occurrences). Refs. 6, pp. 123-127, 129-131; 9, pp. 32-35; 113, pp. 845-852; 130, pp. 415-417
215. Fiedmont township. Ref. 132, p. 88
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218. Caire township. Ref. 6, p. 161
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220. Laverlochère township. Ref. 130, p. 311
221. Opawica and Bachelor Lakes occurrences. Ref. 135, p. 58
222. Opemiska Mines Ltd. Ref. 39, pp. 430-441
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224. Barry township. Ref. 130, p. 45
225. Landry township. Ref. 137, pp. 32-33
226. Suzor township. Ref. 137, pp. 34-35
227 Malhiot township. Ref. 101
228. Hackett township. Ref. 138, p. 37
229. Montauban and Chavigny townships. Refs. 6, p. 161; 130, p. 449; 139, p. 28
230. Portneuf area. Ref. 52, p. 153
231. Harvey Hill, Leeds township. Ref. 6, p. 159
232. Thetford and Caribou Mine occurrences. Ref. 6, p. 159, 140, p. 14
233. Beauceville occurrence. Ref. 141, pp. 84-85
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241. Boullanne Mine, Baie des Mille Vaches
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244. Quetachu Bay. Refs. 6, pp. 131-132; 9, pp. 23-24, 26
245. Washikuti Harbour. Ref. 9, p. 25
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248. Victor Bay occurrence. Ref. 148, p. 21
249. Gaspé Copper, Holland township. Ref. 149, pp. 64-65
250. Antinouri Lake, Durham parish. Ref. 150, p. 108
251. Bathurst area (3 occurrences). Refs. 9, p. 22; 151
252. Stanley Parish occurrence. Refs. 6, p. 60; 9, pp. 21-22
253. Burtt's Corner occurrence. Ref. 152
254. Pennfield occurrence, St. Stephen. Ref. 6, p. 60; 9, p. 22
255. Weisford and Clarendon occurrences. Refs. 6, p. 62; 153
256. St. George occurrence. Ref. 154, p. 42
257. Chegoggin Point, near Yarmouth. Ref. 6, p. 63
258. Jordan Falls, Shelburne county. Ref. 9, pp. 17-18
259. New Ross-Leminster area (5 occurrences). Refs. 6, pp. 58-60; 7, p. 108; 9, pp. 19-20
260. Big Pond, Cape Breton county. Ref. 9, p. 21
261. Gabarus Bay, Cape Breton county. Refs. 6, p. 58; 9, p. 20; 155, p. 106
262. Mabou Highlands, Inverness county. Ref. 156, p. 17
263. North River, near St. Anns. Ref. 6, p. 62
264. Lawn Point occurrences, Burin peninsula. Ref. 157, p. 93
265. Rencontre East area (6 occurrences). Refs. 6, p. 61; 157, pp. 91-92; 158
266. Bay d'Espoir occurrences. Ref. 157, p. 93
267. Berry Hill occurrence. Ref. 157, p. 92
268. Ferryland district, Avalon peninsula. Ref. 159, p. 55
269. Indian Head peninsula. Ref. 157, p. 92
270. Humber district occurrences. Ref. 157, p. 52
271. Fleur de Lys occurrences. Ref. 6, pp. 60-61; 157, pp. 90-91
272. Domino Harbour Copper occurrence. Ref. 160, p. 13
273. Tuchialic (Tessujâluk) Bay. Ref. 160, p. 28
274. Big Bight occurrence. Ref. 160, pp. 28-29
275. Duck Island, Kaipokok Bay. Ref. 160, p. 29
276. Aulatsivik Island. Ref. 160, p. 38
277. Operngevikseak Island. Ref. 161, p. 14
278. Saddle Islands. Ref. 160, pp. 40-41
279. Okak Bay. Ref. 161, p. 14
280. Edgell Island, Resolution group. Ref. 52, p. 67
281. Great Whale River. Ref. 162, p. 22
282. Paint Hills Islands. Ref. 163, pp. 145-146

5.1 Canada. Molybdenum. Map 1045A-M3.
A, Geol.