DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MINERAL INVESTIGATIONS
RESOURCE MAP MR-9

COPPER, LEAD, AND ZINC OCCURRENCES IN ALASKA

Compiled by
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SCALE 1:2 500 000

1960

Base by U. S. Geological Survey Topographic Division, Alaska Base Map E, 1966

MINERAL INVESTIGATIONS
RESOURCE MAP MR-9

EXPLANATION

SINGLE OCCURRENCES

- Copper — *Does not include sulphonsalts*
- Lead — *Does not include sulphonsalts*
- Zinc

GROUPS OF OCCURRENCES WITHIN 3-MILE RADIUS

- Copper — *Does not include sulphonsalts*
- Lead — *Does not include sulphonsalts*
- Zinc

Red quadrant indicates known production, either primary or by-product.

Lode and placer occurrences mentioned in formal reports (other than those which are essentially annual summaries of the mineral industry of Alaska) of the U. S. Geological Survey, U. S. Bureau of Mines, and Alaska Territorial Department of Mines and informal reports of the U. S. Geological Survey that have been released to open files are shown. No reports that have been published since December 31, 1958 have been omitted. Many deposits are not mentioned in the reports listed in the bibliography, and many mineral deposits with large reserves that are not known to have produced are shown by the same symbol as occurrences that are essentially mineralogical curiosities. Many deposits are complex and contain minerals other than those shown on this map. A few occurrences are known only from unverified reports, but most have been visited by geologists or engineers of the U. S. Geological Survey, U. S. Bureau of Mines, or Alaska Territorial Department of Mines.

COMMODITY–QUADRANGLE REFERENCE LIST

The following selected references give data on occurrences of copper, lead, and zinc by quadrangle. The quadrangle boundaries and names used in this table are those selected by the U. S. Geological Survey for topographic mapping in Alaska on a scale of 1:250,000. References selected are to the most complete or most recent descriptions of occurrences.

Abbreviations used: AR, U. S. Geological Survey Annual Report; B, U. S. Geological Survey Bulletin; C, U. S. Geological Survey Circular; I, U. S. Geological Survey Miscellaneous Geologic Investigations Map; IC, U. S. Bureau of Mines Information Circular; IT, U. S. Geological Survey report in press; OF, U. S. Geological Survey open-file report; P, U. S. Geological Survey Professional Paper; RI, U. S. Bureau of Mines Report of Investigations; TDM, Alaska Territorial Department of Mines Pamphlet.

COPPER

Ambler River quadrangle . . . . . B 536, p. 132, 147–150; B 815, p. 33.
Anchorage quadrangle . . . . . B 264, p. 72; B 587, p. 199; B 592, p. 228, 229, 282; B 607, p. 68, 75, 77; B 642, p. 193; B 682, p. 146, 176, 180; B 712, p. 31; B 744, p. 202–205, 208; B 782, p. 70–71; B 848, p. 219, 221; B 949p, p. 413, 416, 420; B 965h, p. 77, 96; B 1004, p. 76, 82
Andreafsky quadrangle . . . . . B 587, p. 194
Bendeleben quadrangle . . . . . B 561, p. 244; B 646, p. 182; TDM S–E, p. 28
Beechey Point quadrangle . . . . . B 587, p. 234–236; B 662, p. 210; I–277
Bradfield Canal quadrangle . . . . . B 642, p. 97, 99; B 722, p. 186; B 773, p. 76; B 967, p. 72–75, 82–85, 90–100, 102, 104, 106–111, 120–124; B 1026f, p. 125, 128–134, 139–140
Candle quadrangle . . . . . B 692, p. 392; C 250, p. 22, 29–30
Chandalar quadrangle . . . . . B 532, p. 105, 114–115; C 355, p. 7; C 548, p. 27–34
Circle quadrangle . . . . . B 443, p. 54, 63, 75; B 660, p. 24; B 1026f, p. 112, 119–120; B 965h, p. 54–56, 67–77, 79, 93, 97–99, 105–107, 109, F–97, p. 37–38, 62–65, 92, 94–95, 97–98, 100–101; F–201, p. 39–40, 82; B 284, p. 46, 48; B 347, p. 338–395, 106, 119–120, 127, 130–134, 136–137, 162–163, 168–170, 174–175, 180; B 379, p. 79, 83; B 493, p. 102; B 587, p. 64, 96, 98, 102–103; B 646, p. 219–221; B 660, p. 24; B 682, p. 97–98; B 744, p. 119–122; B 783, p. 43; B 1026, p. 7–8, 10, 12–13, 17, 20; B 998e, p. 74–79, OF
Circle quadrangle . . . . . B 347, p. 181; B 592, p. 82; B 642, p. 91; B 662, p. 66–68, 71–72; B 917a, p. 7
Eagle quadrangle . . . . . B 542, p. 216; B 813, p. 141; C 300, p. 7
Fairbanks quadrangle . . . . . B 838, p. 340, 344; B 849h, p. 219–221; TDM I, p. 13–14.
Gulkana quadrangle . . . . . B 949h, p. 45, 45–46; B 998d, p. 210–211; RI 3940, p. 4, 6–7.
Healy quadrangle . . . . . B 668, p. 76; B 692, p. 224; B 849e, p. 218–221, 324–328.
Iliamna quadrangle . . . . . B 462, p. 196; B 485, p. 120–121, 130, 132; B 773, p. 173–174; B 962, p. 91–92.
Jones quadrangle . . . . . B 264, p. 55; B 297, p. 72; B 587, p. 99, 101, 109, 192; B 814, p. 59; B 846, p. 47; B 962, p. 55; B 1026, p. 45–46; B 998e, p. 58–60; B 1004, p. 76–77, 79; B 1026f, p. 142, 145–146, 151, 153, 157, 162–164, 171–175, 178, 183; B 1026g, p. 223, 225, 231–234, 236; B 622, p. 139; B 642, p. 191–192; B 682, p. 180–189; B 715, p. 97, 409–502, 505–509, 514–515; B 965h, p. 63–66, 68–70; B 998d, p. 136–137.
Kantishna quadrangle . . . . . B 999p, p. 179.
Lake Clark quadrangle . . . . . C 207, p. 3–4; TEI 8428, p. 5–10.
Livengood quadrangle . . . . . B 325, p. 176, 187; B 592, p. 304.
McCarthy quadrangle . . . . . F 15, p. 19–20; B 345, p. 155; B 427, p. 37; B 448, p. 92–93, 97, 103–106; B 606, p. 21–125; B 622, p. 161–162; B 783, p. 87, 92, 100, 103–113, 126, 133–137; B 813, p. 54; B 847f, p. 111, 117–120; B 947g, p. 134–140, 142
McGrath quadrangle . . . . . B 754, p. 56
Medfra quadrangle . . . . . B 783, p. 129–130; B 846e, p. 231–232, 237–238, 240.
Mount Fairweather quadrangle . . . . . B 773, p. 95; B 783, p. 56; B 962, p. 96.
Mount Hayes quadrangle . . . . . F 41, p. 111; B 605, p. 45–46; B 712, p. 26; B 744, p. 35; B 949h, p. 27; C 332, p. 1, 4–5.
Mount McKinley quadrangle . . . . . B 712, p. 25.
Mount McKinley quadrangle . . . . . B 587, p. 29; B 714, p. 85; B 782, p. 108; B 938, p. 319–324, 330; B 949d, p. 272–274, 276, 278–284; B 949f, p. 382–385, 388–389, 371–372, 376.
Nabesna quadrangle . . . . . F 15, p. 29–40; B 477, p. 57; B 630, p. 134; B 932h, p. 169–170, 173–174; B 949i, p. 183–184, 188; B 998d, p. 205–206; C 246, p. 8–10.
Nome quadrangle . . . . . B 533, p. 132, 135; B 649, p. 15; B 693, p. 455, 457; B 722, p. 182, 219–221; B 847, p. 142, 183–184; B 949j, p. 219–221.
Petersburg quadrangle . . . . . B 547, p. 142, 183–184; B 729, p. 68–69; B 947h, p. 22, 24; B 968a, p. 37–38; B 998b, p. 21, 23, 27, 37, 45, 47.
Port Alexander quadrangle . . . . . AR 18, p. 62; B 938m, p. 324–326.
Port Moller quadrangle . . . . . B 487, p. 128.
Russian Mission quadrangle . . . . . P 200, p. 122; B 962e, p. 189.
Sagavanirktok quadrangle . . . . . B 587, p. 234–236; B 987a, p. 29–31.
Selawik quadrangle . . . . . B 264, p. 87; B 379, p. 91–92; B 587, p. 142, 146–147, 151, 161, 172, 190, 197, 233–234; B 719, p. 217, 228–234, 236; B 622, p. 139; B 642, p. 191–192; B 662, p. 186, 210–211, 213, 219; B 682, p. 144, 180; B 783, p. 217; B 849j, p. 299–301, 309, 313–320; B 947e, p. 85–92; B 962h, p. 62–66, 69–77; B 998e, p. 113–122; I–273.
Seldovia quadrangle . . . . . B 587, p. 104; B 714, p. 85; B 782, p. 108; B 1004, p. 76; B 1026f, p. 114–115; I–274.
Selawik quadrangle . . . . . B 1026, p. 7; TDM p. 14; TDM p. 16; TDM p. 17; B 1026f, p. 114–115, 140–141; B 947c, p. 45–59, 62–64.
Seward quadrangle . . . . . B 256, p. 22; B 699, p. 15, 16; B 964, p. 1021.
Solomon quadrangle . . . . . B 345, p. 243; B 449, p. 134–135; B 622, p. 441; B 722, p. 186, 199–200, 214–217; C 300, p. 7.
Sutwik Island quadrangle . . . . . B 314, p. 56; B 710, p. 66; B 962, p. 55.
Survey Pass quadrangle . . . . . B 910, p. 227–228.
Taku River quadrangle . . . . . B 773, p. 133.
Talkeetna quadrangle . . . . . B 692, p. 254, 261; B 782, p. 108.
Talkeetna Mountains quadrangle . . . . . F 692, p. 291–294; B 783, p. 50–54.
Tanana quadrangle . . . . . B 646d, p. 180, 182–183, 187, 189–190, 215–216, 232–234, 239–240.
Teller quadrangle . . . . . B 449–442; B 773, p. 66, 79, 81, 109–111; C 214, p. 3; TDM S–E, p. 22, 30.
Tolovana quadrangle . . . . . AR 20, p. 112
Umiat quadrangle . . . . . AR 18, p. 62, 65; RI 3967, p. 6–9.
Valdez quadrangle . . . . . F 15, p. 18; B 442, p. 161–162; B 535, p. 51–52; B 622, p. 161, 163, 166, 169, 175–177, 179–181, 183–186; B 666, p. 29; B 949c, p. 50, 51; B 965h, p. 51–53; B 998e, p. 302.
Wainwright quadrangle . . . . . B 815, p. 342; C 195, p. 8, 10–11; TDM I, p. 17.
Yakutat quadrangle . . . . . B 314, p. 97.

LEAD

Ambler River quadrangle . . . . . B 536, p. 150, 153; B 815, p. 345.
Anchorage quadrangle . . . . . B 592, p. 228, 229; B 607, p. 75, 77; B 642, p. 193; B 682, p. 180; B 726, p. 72; B 848e, p. 219, 221, 222; B 949p, p. 413, 416, 420; B 965a, p. 33; B 965h, p. 98–99; B 1004, p. 76, 82
Bendeleben quadrangle . . . . . B 587, p. 34; B 646, p. 181; B 722, p. 186; B 726, p. 45; TDM S–E, p. 28, 30–31.
Beechey Point quadrangle . . . . . C 331, p. 13; TDM I, p. 14
Bradfield Canal quadrangle . . . . . B 642, p. 97, 99; B 722, p. 186, 199–200, 214–217; C 300, p. 7; B 967, p. 72–75, 82–85, 90–100, 102, 104–106, 107–108, 111–112, 124; B 968, p. 34; B 1026f, p. 125, 128–134, 139–140; IC 7779, p. 42.
Candle quadrangle . . . . . C 250, p. 29–30; TDM S–E, p. 31.
Chandalar quadrangle . . . . . B 532, p. 114–115; C 195, p. 8, 11; C 548, p. 16, 18.
Circle quadrangle . . . . . B 667, p. 128–129.
Circle quadrangle . . . . . B 824, p. 162; B 965j, p. 327; C 305, p. 5; C 548, p. 11, 13.
Cordova quadrangle . . . . . B 605, p. 95, 100, 113; B 968a, p. 28.
Craig quadrangle . . . . . F 1, p. 90, 93; F 87, p. 62, 64; B 284, p. 54; B 347, p. 180, 166, 162–164, 168, 170, 174, 176, 182, 187–188; B 592, p. 78, 92; B 642, p. 81–82; B 662, p. 69, 72; B 682, p. 90; B 783, p. 32; B 848e, p. 219, 221; B 998e, p. 74–78; B 1026f, p. 13.
Dixon Entrance quadrangle . . . . . B 347, p. 181; B 662, p. 71; B 917a, p. 23.
Eagle quadrangle . . . . . B 597c, p. 199; C 305, p. 7; C 548, p. 7, 9; B 968a, p. 60; TDM 1, p. 12, 14; TDM 2, p. 13.
Fairbanks quadrangle . . . . . B 525, p. 197–198; B 783, p. 82; B 838a, p. 319, 325–327; TDM 1, p. 11; TDM 2, p. 13.
Gulkana quadrangle . . . . . B 998d, p. 210–211; RI 3940, p. 4, 6–7.
Healy quadrangle . . . . . B 849e, p. 319–319, 325–327; TDM 1, p. 11; TDM 2, p. 13.
Iliamna quadrangle . . . . . B 8990, p. 72
Jones quadrangle . . . . . B 462, p. 196; B 783, p. 92–93.
Juneau quadrangle . . . . . B 225, p. 30; B 297, p. 55, 73, 76, 92, 101, 109, 150; B 314, p. 59; B 446, p. 67; B 587, p. 46, 55; B 714, p. 85; B 782, p. 108; B 783, p. 51; B 917, p. 35, 51–52.
Karluk quadrangle . . . . . B 775, p. 207
Ketchikan quadrangle . . . . . F 1, p. 29; B 347, p. 146–149, 151, 153, 157, 162–164, 171–175, 178, 180–181, 186; B 592, p. 82, 86, 92; B 667, p. 67–71; B 783, p. 59; B 848e, p. 219, 221; B 998e, p. 58–60, 66, 68.
Kodiak quadrangle . . . . . B 898e, p. 175, 179
Lake Clark quadrangle . . . . . C 207, p. 3–4
Livengood quadrangle . . . . . B 325, p. 157–158, 172, 178, 183, 187; B 592, p. 304; TDM I, p. 13–14.
McCarthy quadrangle . . . . . B 448, p. 105; B 783, p. 11
McGrath quadrangle . . . . . B 754, p. 56; B 846e, p. 231–232, 237–238, 240.
Mount Hayes quadrangle . . . . . B 949h, p. 144; B 949h, p. 27
Mount McKinley quadrangle . . . . . B 667, p. 64, 96, 98, 102–103; B 712, p. 26; B 744, p. 35; B 782, p. 108; B 949d, p. 272–274, 276, 278–284; B 949f, p. 382–385, 388–389, 371–372, 376.
Nabesna quadrangle . . . . . B 949e, p. 183–184, 188; B 998d, p. 205–206; OF.
Nome quadrangle . . . . . B 662, p. 445, 447; B 722, p. 186; B 783, p. 217; B 849j, p. 299–301, 309, 313–320; B 947e, p. 85–92; B 962h, p. 62–66, 69–77; B 998e, p. 113–122; I–273.
Petersburg quadrangle . . . . . B 547, p. 142–144, 147, 151, 161, 172, 190, 197, 233–234; B 719, p. 217, 228–234, 236; B 622, p. 139; B 642, p. 191–192; B 662, p. 186, 210–211, 213, 219; B 682, p. 144, 180; B 783, p. 217; B 849j, p. 299–301, 309, 313–320; B 947e, p. 85–92; B 962h, p. 62–66, 69–77; B 998e, p. 113–122; I–273.
Port Alexander quadrangle . . . . . B 547, p. 142, 183–184; B 729, p. 68–69; B 947h, p. 22, 24; B 968a, p. 37–38; B 998b, p. 21, 23, 27, 37, 45, 47.
Port Moller quadrangle . . . . . B 487, p. 128.
Russian Mission quadrangle . . . . . P 200, p. 122; B 962e, p. 189.
Selawik quadrangle . . . . . B 587, p. 142, 146–147, 151, 161, 172, 190, 197, 233–234; B 719, p. 217, 228–234, 236; B 622, p. 139; B 642, p. 191–192; B 662, p. 186, 210–211, 213, 219; B 682, p. 144, 180; B 783, p. 217; B 849j, p. 299–301, 309, 313–320; B 947e, p. 85–92; B 962h, p. 62–66, 69–77; B 998e, p. 113–122; I–273.
Seldovia quadrangle . . . . . B 587, p. 104; B 714, p. 85; B 782, p. 108; B 1004, p. 76; B 1026f, p. 114–115; I–274.
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Seward quadrangle . . . . . B 256, p. 22; B 699, p. 15, 16; B 964, p. 1021.
Solomon quadrangle . . . . . B 345, p. 243; B 449, p. 134–135; B 622, p. 441; B 722, p. 186, 199–200, 214–217; C 300, p. 7.
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Yakutat quadrangle . . . . . B 314, p. 97.

ZINC

Anchorage quadrangle . . . . . B 592, p. 228, 229; B 607, p. 194; B 714, p. 296; B 782, p. 70–71; B 848e, p. 218, 221; B 949p, p. 413, 416, 420; B 959c, p. 264–266; B 1004, p. 76.
Beaver quadrangle . . . . . B 938e, p. 197.
Bendeleben quadrangle . . . . . B 712, p. 255.
Bradfield Canal quadrangle . . . . . B 587, p. 235; B 967, p. 72, 82–85, 90–100, 102, 104–105, 107–108, 111–112, 124; B 968, p. 34; B 1026f, p. 125, 128–134, 139–140.
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Karluk quadrangle . . . . . B 775, p. 207
Ketchikan quadrangle . . . . . F 1, p. 29; B 347, p. 146–149, 151, 153, 157, 162–164, 171–175, 178, 180–181, 186; B 592, p. 82, 86, 92; B 667, p. 67–71; B 783, p. 59; B 848e, p. 219, 221; B 998e, p. 58–60, 66, 68.
Kodiak quadrangle . . . . . B 898e, p. 175, 179
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Seward quadrangle . . . . . B 256, p. 22; B 699, p. 15, 16; B 964, p. 1021.
Solomon quadrangle . . . . . B 345, p. 243; B 449, p. 134–135; B 622, p. 441; B 722, p. 186, 199–200, 214–217; C 300, p. 7.
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