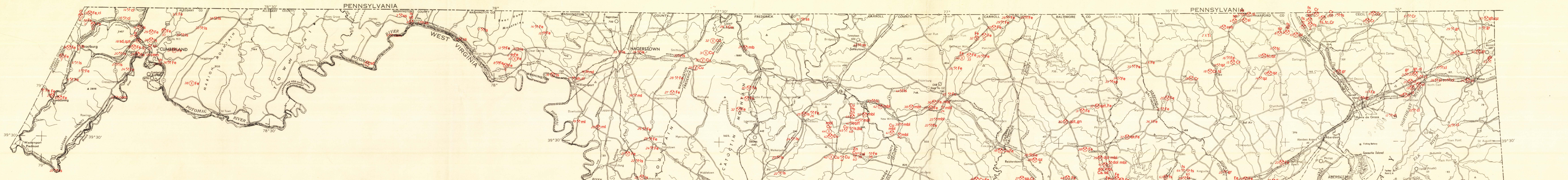

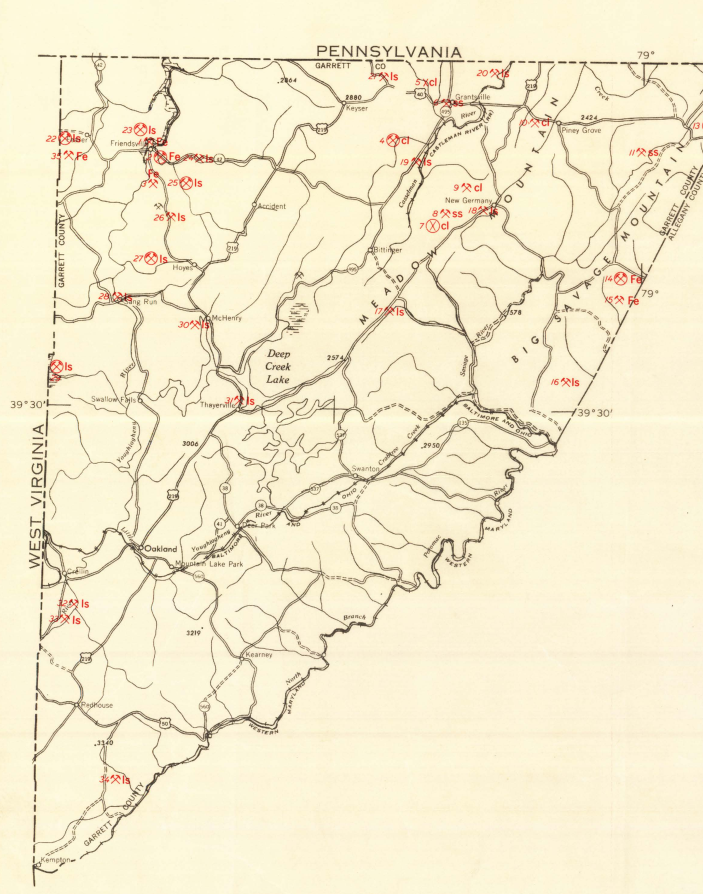

INTRODUCTION

This map shows localities where mineral raw materials other than fuels, sand, and gravel have been found in Maryland. It was compiled from published sources, files of the U. S. Geological Survey, and field observation. Various members of the Geological Survey, particularly Allen V. Heyl, John W. Hosterman, and Maxwell M. Knechtel, contributed information about localities in parts of the State with which they are familiar.

All mines, quarries, pits, and placer workings shown on the map have produced mineral raw materials commercially; the prospects or mineral deposits have not. Inasmuch as use of the terms "mine" and "quarry" varies considerably in the source material, a few locations so designated may be little more than prospects and may not have been commercial operations.

The map symbols are numbered consecutively for each county and are identified and documented in the list below. Where a group symbol on the map includes localities in two adjacent counties, its number is listed under both counties. Where no reference is cited, locations are from observation or from the oral communication of others. Some deposits are not described fully enough in the literature to be located accurately on the map; their names are followed by asterisks (*) in the locality list. Deposits that could not be located with reasonable accuracy are omitted.

Mineral raw materials worked or occurring at each locality are identified by abbreviations. Mineral byproducts are not shown. Stone quarries are identified by rock type rather than use; for example, limestone, marble, sandstone, gabbroic rock, granitic rock, and gneiss. Thus the abbreviation mbl (marble) includes recrystallized carbonate rocks used for their lime content as well as those used for building or crushed stone. Where available information indicates a limited kind of use for the rock from a quarry, this is mentioned in the locality list; for example, flagstone, crushed stone, road material, and roofing granules. Quarries and prospects in pegmatite are designated according to their significant minerals, as feldspar, quartz, mica, or beryl.

All iron mines are marked Fe on the map. Types of ore are identified in the locality list and the commodity index. The Arundel formation is almost entirely a clay that contains scattered lumps and nodules of iron carbonate, limonite, and hematite. Clay (for building brick) and iron have both been mined from the formation, as indicated on the map, but in recent years only the clay has been of value.

Many of the mines, quarries, and pits shown on the map have not been operated in recent years; some are now filled in and the land cultivated so that no evidence remains. Periods of mining and the present condition of the workings are not indicated on the map. In general, the metal mines were significant producers during the nineteenth century only. Some gold was mined in Maryland for several years after the Gold Reserve Act of 1934, and a few ounces were recovered at one mine in the early 1950's. The latest production of other metals in Maryland was in 1928, but some of the deposits were prospected as recently as 1955.

During recent years, the mining of sand and gravel for a variety of uses has been Maryland's major mineral industry, accounting in value for a third or more of her mineral wealth each year. The counties producing large quantities are those near the cities of Baltimore and Washington: Prince Georges, Baltimore, Harford, and Anne Arundel. No attempt has been made to show the sand and gravel workings in Maryland because they are so numerous and because the industry is a shifting one.

Maryland's other important mineral products in recent years, in decreasing order of value, have been: stone (particularly crushed and broken marble and limestone), coal, clays, natural gas, and cement rock. Talc, soapstone, beryl, mica, and greensand also have been mined.

The coal mines of Allegany and Garrett Counties and the natural gas fields of Garrett County, all of which contribute significantly to Maryland's mineral output today, are not included in this study. Many small quarries that were worked very locally and sporadically, particularly for road metal or lime, also are omitted from the map.

LOCALITIES AND SOURCES OF INFORMATION

Allegany County
1. Koontz ironstone mine (Singewald, 1911, p. 247)
2-3. Lonaconing coal-ironstone mines (Singewald, 1911, p. 247)
4. Miller ironstone mine (Singewald, 1911, p. 246)
5. Pompey Smash ironstone mine (Singewald, 1911, p. 246)
6. Limestone quarry, for road material (Clark and others, 1900, p. 189, atlas)
7. Cumberland Coal and Iron Co. (Midlothian) ironstone mines (Singewald, 1911, p. 246)
8. a. Frost Co. ironstone-coal mine (Singewald, 1911, p. 245)
b. Johnson ironstone-coal mine (Singewald, 1911, p. 245-246)
9. Frostburg limestone quarry, for road material (Clark and others, 1900, p. 189, atlas)
10. Ridgeley ironstone mines (Singewald, 1911, p. 244)*
11. Dutch Hollow ironstone mine (Singewald, 1911, p. 244)*
12. Mt. Savage (Big Savage) refractory-clay mines—Allegany and Garrett Cos. (Clark and others, 1900, p. 181-182, atlas; Watts and others, 1922, pl. 5 and text)
13. Upper and Lower Tunnel (Union) clay and ironstone mines (Singewald, 1911, p. 244-245; Watts and others, 1922, pl. 5 and text)
14. Little Allegheny Mtn. (Ellerslie, Ramsay) refractory-clay mine (Clark and others, 1900, p. 181-182, atlas; Watts and others, 1922, pl. 5 and text; Waagé, 1950, p. 73)
15. Barrelville (Mount Savage Refractories Co.) clay mine (Waagé, 1950, p. 74)*
16. Kreigbaum (Corriganville) limestone quarries (Clark and others, 1900, atlas)
17. Homewood limestone quarry (Clark and others, 1900, atlas)
18. The Narrows talus slopes, source of crushed quartzite, and glass sand (Clark and others, 1900, p. 189, 192, atlas)
19. Narrows Park hematite mines (Singewald, 1911, p. 299-300)
20-21. Limestone quarries (Clark and others, 1900, atlas)
22. Queens Point sandstone quarry (Clark and others, 1900, atlas)
23. Potomac cement mine (Clark and others, 1900, p. 185, atlas)
24. Long hematite mine (Singewald, 1911, p. 300)
25. Gephart and West Cumberland hematite mines (Singewald, 1911, p. 300)
26. Cumberland cement mine (Clark and others, 1900, p. 185-186, atlas)
27-28. Cumberland stone quarries (Clark and others, 1900, atlas)
29. Wills Mtn. hematite mines—extend from Cumberland to the State Line (Singewald, 1911, p. 300)
30. Valentine limonite mines (Singewald, 1911, p. 182)
31. Neff limonite deposit (Singewald, 1911, p. 183)
32-34. Small limestone quarries, for lime (Clark and others, 1900, p. 186, atlas)
35. South Cumberland Brick Works shale quarry (Clark and others, 1900, p. 184)*
36. Knight farm limonite mine (Singewald, 1911, p. 183)*
37. Limonite mines (Singewald, 1911, p. 183)*
38. Guepl limonite prospects (Singewald, 1911, p. 184)

Anne Arundel County
1. Wilson (Plum Point Molding Sand Co.) pit (Trainer, 1928, p. 59-60)*
2. Sandstone quarry (Little, 1917, p. 125)*
3. Harmans (Washington Hydraulic-Pressed Brick Co.) clay mine (Little, 1917, p. 121; Ries, 1902, p. 412-413)
4. Wilson's Wharf glass-sand pit (Miller and others, 1917, p. 13)
5. Brennan (Forked Creek) glass-sand pit (Darton, 1939, p. 31, pl. 6; Trainer, 1928, p. 50-51)
6. Elvaton sandstone quarry (Little, 1917, p. 125)*
7. Glen Burnie (Severn Clay Company) clay pit
8. Hancock clay pit (Little, 1917, p. 120)*
9. Welhams clay mine (Ries, 1902, p. 427)
10-26. Mines in the Arundel formation (Singewald, 1911, p. 278-285)
10. Hollins mine
11. Smith mine
12. Berkley, Rieve, and Gosweiler mines
13. Welch mines
14. Rose and Sydicum mines
15. Ties' Brickyard; Ties, Tyson, and Waters mines
16. Skully and Priest mines
17. Brown and King mines
18. Hobbs mines
19. Linthicum mines
20. Ellicott, Goldwine, and Bennett mines
21. Anderson, Dorsey, Disney, and Harmon mines
22. Timber Neck and Lafey mines; *see also Howard County 22*
23. Plumbmer mines and German mine
24. Randel and Crook mines; State Roads Commission clay pit
25. Soper Hall mines
26. Garey, Ruth, and Benson mines

Baltimore County and City
1. Anton Reisberg flint quarry, Koiner flint quarry (Singewald, 1928, p. 144-145, pl. 7)
2. a. August Sandusky feldspar and quartz quarries (Singewald, 1928, p. 117-118, pl. 4; p. 144, pl. 7)
b. Blunt flagstone quarries, Knopf flagstone quarry (Mathews and Watson, 1929, p. 260-261)
3. Baer flint quarries, Green flint quarry (Singewald, 1928, p. 144, pl. 7)
4. a. Hamilton feldspar quarries (Singewald, 1928, p. 117, pl. 4)
b. Jones flagstone quarry (Mathews and Watson, 1929, p. 261-262)
5. Patapsco flagstone quarries—Baltimore and Carroll Cos. (Singewald, 1946, p. 145)
6. Poole Farm feldspar quarries (Singewald, 1928, p. 117, pl. 4)
7. a. Patterson feldspar quarries (Singewald, 1928, p. 116-117, pl. 4)
b. Fox Rock (Woodstock) granite quarry (Mathews, 1898, p. 150-156; Mathews and Watson, 1929, p. 240-241)
8. Granite (Waltersville) granite quarries (Mathews, 1898, p. 150-156; Mathews and Watson, 1929, p. 241-242)
9. Guilford and Waltersville Granite Co. feldspar quarries (Singewald, 1928, p. 115, pl. 4)
10. a. U. F. Peach feldspar quarries (Singewald, 1928, p. 116, pl. 4)
b. Kemp feldspar quarries (Singewald, 1928, p. 116, pl. 4)
c. Worthington feldspar and quartz quarries (Singewald, 1928, p. 116, pl. 4; p. 143, pl. 7)
11. Ofutt feldspar quarry (Singewald, 1928, p. 115, pl. 4)
12. French feldspar quarries (Singewald, 1928, p. 114-115, pl. 4)
13. a. Rupp feldspar quarries (Singewald, 1928, p. 114, pl. 4)
b. Minckins feldspar and quartz quarries (Singewald, 1928, p. 114, pl. 4; p. 143, pl. 7)
14. a. Smoot flint quarry (Singewald, 1928, p. 143, pl. 7)
b. Wright's Mill flagstone quarry (Mathews and Watson, 1929, p. 260)
15. Dorseys Run (Feeney and Atherton) feldspar quarries—Baltimore and Howard Cos. (Singewald, 1928, p. 113, 123, pl. 4)
Dietz feldspar quarry (Singewald, 1928, p. 114, pl. 4)
16. Alberton quarries (Singewald, 1928, pl. 4)
Alberton marble quarry (Singewald, 1928, p. 113)
Picnic Woods feldspar quarries (Singewald, 1928, p. 112-113)
See Howard County 16
17. a. Wilt and Humphrey feldspar quarries (Singewald, 1928, p. 112, pl. 4)
b. Bok asbestos mine (Ostrander and Price, 1940, p. 22; Bangs, 1946, p. 70-71; Pearre and Heyl, 1960)
18. a. Hollofield gabbro quarries (Mathews and Watson, 1929, p. 252; Ostrander and Price, 1940, p. 20)
b. Hollofield feldspar quarries (Singewald, 1928, p. 112, pl. 4)
19. Ellicott City granite quarries—Baltimore and Howard Cos. (Mathews, 1898, p. 147-150; Mathews and Watson, 1929, p. 242)
20. Milford gabbro quarry (Mathews and Watson, 1929, p. 252; Ostrander and Price, 1940, p. 22-23)
21. Allens Lane flint quarries (Singewald, 1928, p. 145, pl. 7)
22. Dolfield (Rose) chromite placer (Singewald, 1928, p. 189; Pearre and Heyl, 1960)
23. a. Choate chromite mine (Singewald, 1928, p. 186-187; Knopf, 1922, p. 96; Pearre and Heyl, 1960)
b. Soldiers Delight magnesite mine (Ducatel, 1840, p. 40; Pearre and Heyl, 1960)
24. Triplett chromite placer (Singewald, 1928, p. 190; Pearre and Heyl, 1960)
25. a. Harris and Weir chromite mines (Singewald, 1928, p. 187-188; Pearre and Heyl, 1960)
b. Old Triplett chromite placer (Singewald, 1928, p. 190; Pearre and Heyl, 1960)
c. Warner flint quarry (Singewald, 1928, p. 145, pl. 7)
26. a. Chromite mine (Pearre and Heyl, 1960)
b. Gore chromite placer (Singewald, 1928, p. 189; Pearre and Heyl, 1960)
c. Yox flint quarry (Singewald, 1928, p. 145, pl. 7)
27. a. Soldiers Delight (Dyer) crushed-serpentine quarry (Mathews and Watson, 1929, p. 254; Pearre and Heyl, 1960)
b. Calhoun chromite mine (Singewald, 1928, p. 188-189; Pearre and Heyl, 1960)
28. Gillett flint quarries (Singewald, 1928, p. 145-146)
29. Geist limonite mine (Singewald, 1911, p. 220)
30. Butler flagstone quarries (Mathews and Watson, 1929, p. 258-259; Ostrander and Price, 1940, p. 26)
31. Bosley and Ensor limonite mines (Singewald, 1911, p. 219)
32. a. Wittingham flagstone quarry (Mathews and Watson, 1929, p. 262)
b. Mase limonite mines (Singewald, 1911, p. 220)
33. Blue Mount (J. E. Baker Co.) crushed-serpentine quarry (Mathews and Watson, 1929, p. 252-253; Pearre and Heyl, 1960)
34. McComas magnetite mine (Singewald, 1911, p. 321; Pearre and Heyl, 1960)
35. Norris magnetite mine (Singewald, 1911, p. 319, 320-321; Pearre and Heyl, 1960)
36. Cochran limonite prospect (Singewald, 1911, p. 219)
37. Wilson flint quarry and limonite mine (Singewald, 1911, p. 219)
38. Oregon limonite mines (Singewald, 1911, p. 220-221)
39. Cockeysville dolomite marble quarries, including Beaver Dam quarries (Mathews, 1898, p. 172-185; Mathews and Watson, 1929, p. 243-244)
40. a. Texas dolomite marble quarries (Mathews, 1898, p. 172-185)
b. H. T. Campbell dolomite marble quarries (Mathews and Watson, 1929, p. 245)
c. Maryland Calcite Co. quarry (Mathews and Watson, 1929, p. 247-248)
d. Thompson carbonate-sand pit (Mathews and Watson, 1929, p. 248)
e. Burton carbonate-sand pit (Mathews and Watson, 1929, p. 249)
41. Gunpowder dolomite marble quarry (Mathews and Watson, 1929, p. 247)
42-44. Pot Springs limonite mines (Singewald, 1911, p. 223-225)
45. Ridgely limonite mines (Singewald, 1911, p. 222-223)
46. Herman limonite mine (Singewald, 1911, p. 223)
47. Rider limonite mine (Singewald, 1911, p. 222)
48. The Caves limonite mines (Singewald, 1911, p. 221)
49. Cross limonite mine (Singewald, 1911, p. 221)
50. Shoemaker flagstone quarry (Mathews and Watson, 1929, p. 262-263)
51. Stevenson flagstone quarry (Mathews and Watson, 1929, p. 262)
52. Waters stone quarry (Mathews and Watson, 1929, p. 259-260)
53. McMahon Brothers dolomite marble quarries (Mathews and Watson, 1929, p. 246; Ostrander and Price, 1940, p. 27)
54. Rogers flagstone quarry (Mathews and Watson, 1929, p. 263)
55. a. Bare Hills chromite mines, prospects, and placers (Hayden, 1833; Singewald, 1928, p. 184-186; Pearre and Heyl, 1960)
b. Bare Hills serpentine quarries (Mathews and Watson, 1929, p. 254; Pearre and Heyl, 1960)
c. Bare Hills magnesite mines (Pearre and Heyl, 1960)
56. Bare Hills copper mine (Moore, 1935; Mathews and Watson, 1929, p. 287-288)
57. Chew limonite mine (Singewald, 1911, p. 225)
58. Minebank limonite mine (Singewald, 1911, p. 225)
59. a. Rustic flagstone quarry (Mathews and Watson, 1929, p. 258)
b. Reddington, Von Kapff, and Rice limonite mines (Singewald, 1911, p. 222)
60. Loch Raven gneiss quarry (Mathews and Watson, 1929, p. 257-258)
61. Gilmor feldspar and marble quarry (Singewald, 1928, p. 110, pl. 3)
62. Arundel gneiss quarry (Ostrander and Price, 1940, p. 32)
63. Pierce and Notch Cliff feldspar quarries (Singewald, 1928, p. 110-111, pl. 3)
64. Gwynn feldspar quarry (Singewald, 1928, p. 111, pl. 3)
65. Bonaparte feldspar quarries (Miller and others, 1917; Singewald 1928, p. 111-112, pl. 3)
66. Pearce feldspar quarry (Singewald, 1928, p. 111, pl. 3)
67. Gatch gabbro quarry (Mathews and Watson, 1929, p. 249-250)
68. Longley gabbro quarry (Mathews and Watson, 1929, p. 250)
69. Morgan College granite quarry (Mathews and Watson, 1929, p. 242-243)
70. Wright gneiss quarry (Ostrander and Price, 1940, p. 14)
71. Jones Falls gneiss quarries (Mathews, 1898, p. 161-165; Mathews and Watson, 1929, p. 254-256)
72. Woodberry gabbro quarry (Mathews and Watson, 1929, p. 250-251)
73. Hillsdale gabbro quarry (Mathews and Watson, 1929, p. 251-252)
74. Bolton gabbro quarry (Mathews and Watson, 1929, p. 251)

Baltimore County and City
75. Thomas R. Martin (Cooks Lane) gabbro quarry (Mathews and Watson, 1929, p. 251)
76. Gwynns Falls gneiss quarries (Mathews, 1898, p. 166-168; Mathews and Watson, 1929, p. 256-257)
77-106. Mines in the Arundel formation (Singewald, 1911, p. 263-275; others as indicated below)
77. Miller, Ring, Coursey, Randle, and Stapleton mines
78. Kraft mine
79. Virginia mines, mines NE. of Halethorpe
80. Kennedy mine
81. Excelsior Brick & Pottery Co. mines and mines N.W. of Lansdowne
82. Lansdowne mines
83. Pitcher mine
84. Obrien, Kaufman, and Brian mines
85. a. Westport Paving Brick Co. clay mine (Mathews and Watson, 1929, p. 273-274)
b. Ellicott mine
86. Whitaker, Pitcher and Creager Brick Co., Blowhorn, Rittenhouse, and During mines
87. Old Gorsuch Point mines*
88. Old Whetstone Point mines*
89. Baltimore Brick Co., Monument Street clay pit (Mathews and Watson, 1929, p. 274-275)
90. Schmidtman, Leitschuh, and Lepper mines
91. a. Champion Brick Co. clay mine (Mathews and Watson, 1929, p. 275-276)
b. Kline's Brickyard and Zinkand mines
92. Kern and Rheinhardt mines
93. Champion Brick Co. clay pit
94. Westerman, Mohr, Toboll, Ender, Reich, Bethke, and Brown mines (Miller and others, 1917)
95. Kahler, Hofmeister, and Bishop mines (Miller and others, 1917)
96. Rohe mine (Miller and others, 1917)
97. Stemmer Run Furnace (Townsend and Hengemihle) mines (Miller and others, 1917)
98. Turner mines (Miller and others, 1917)
99. Riemschneider and King mines (Miller and others, 1917)
100. a. United Clay Mines Corp. clay pits (Mathews and Watson, 1929, p. 276)
b. Baltimore Brick Co., Rossville clay pit (Mathews and Watson, 1929, p. 274)
c. Nine Mile Hill, Solomon, and Jenkins mines
101. Cook, Lohman, and Smith mines (Miller and others, 1917)
102. Wagonfere and Roeder mines (Miller and others, 1917)
103. Gerst and Tremper mines (Miller and others, 1917)
104. Myers mine
105. Gay Shore prospect (Miller and others, 1917)
106. Taylor mine (Miller and others, 1917)
107. Burns and Russell Co. clay pit (Mathews and Watson, 1929, p. 275)
108-109. Sparrows Point clay pits (Miller and others, 1917, p. 13)

Calvert County
1. Lyons Creek (Maryland Silicate Co.) diatomaceous earth deposit (Miller, 1907, p. 131; Little, 1917, p. 126)
2. Kaylorite Corp. (Dunkirk) greensand pit, 1958
3. Old greensand-diatomaceous earth pit
4. Cove Point rutile deposit (Anon., 1955)
5. Mackall building stone quarry, locally indurated Miocene sandstone (Miller, 1907, p. 128)

Caroline County
1. Federalsburg bog-iron mine (Singewald, 1911, p. 229)
2. Smithville bog-iron mine (Singewald, 1911, p. 229)

Carroll County
1. Bennett flint quarry (Singewald, 1928, p. 147, pl. 7)
2. Ruch flint quarry (Singewald, 1928, p. 147, pl. 7)
3. Emma Feazer flint quarries (Singewald, 1928, p. 148, pl. 7)
4. a. Ourlser flint quarries (Singewald, 1928, p. 147-148, pl. 7)
b. Ourlser feldspar quarry (Singewald, 1928, p. 119)
5. Patapsco flagstone quarries—Carroll and Baltimore Cos. (Singewald, 1911, p. 145)
6. Marriottsville (Clinchfield) talc quarries (Singewald, 1946, p. 146-147; Pearre and Heyl, 1960)
7. a. Ourlser talc quarries (Singewald, 1946, p. 147; Pearre and Heyl, 1960)
b. Richardson, Wesley Baker flint quarries (Singewald, 1928, p. 148, pl. 7)
8. Marriottsville feldspar and flint quarries (Singewald, 1928)
DeVries feldspar quarries (p. 118-119)
see Howard County, 8
9. a. Marriottsville feldspar quarries (Singewald, 1928)
Weetenkamp quarry and Tunnel mine (p. 118)
Wallen quarry, Ourlser quarry (p. 119)
See Howard County, 9
b. Ivory Ridge flagstone quarry (Singewald, 1946, p. 145)
10. Flint Quarry Woods flint quarry (Singewald, 1928, p. 147; 1946, p. 148)
11. Ruby flint quarry (Singewald, 1928, p. 148, pl. 7)
12. Trayer flint quarry (Singewald, 1928, p. 149, pl. 7)
13. a. Springfield copper-iron mine (Williams, 1893, p. 112-113; Singewald, 1946, p. 159-160; Pearre, in press)
b. Carroll (New Burra) copper-iron mine (Singewald, 1946, p. 159; Pearre, in press)
14. Monroe copper-iron prospects (Singewald, 1911, p. 310)
15. Beasman copper-iron prospects (Singewald, 1911, p. 310)
16. Mineral Hill copper-iron mines (Overbeck, 1916, p. 159-165; Singewald, 1946, p. 159; Pearre, in press)
17. Brauning flint quarries (Singewald, 1928, p. 146, pl. 7)
18. Patapsco copper-iron mines (Overbeck, 1916, p. 153-159; Singewald, 1946, p. 158-159; Pearre, in press)
19. Costley gold "mine" (Ostrander and Price, 1940, p. 45; Baltimore Evening Sun, July 8, 1936 and April 12, 1948)
20. Hood limonite mine (Singewald, 1911, p. 317-318)
21. Richmond magnetite mine (Singewald, 1911, p. 317)*
22. Warfieldsburg limonite mine (Singewald, 1911, p. 216)
23. Roop marble quarry (Mathews and Grasty, 1910, p. 362)*
24. Albaugh marble quarry (Mathews and Grasty, 1910, p. 361; Ostrander and Price, 1940, p. 44)
25. Hunter limonite mine (Singewald, 1911, p. 215)
26-35. Bachman Valley limonite mines (Singewald, 1911)
26. Neller mine (p. 212)
27. Keeney mine (p. 207-208)
28. Meyer mine (p. 208)
29. Miller mine (p. 208)
30. Peterman and Tracy's mines (p. 208-209)
31. Mines north of Ebbvale (p. 209)
32. Chestnut Hill mines (p. 209-212)
33. Schaeffer mines (p. 212-213)
34. Wareheim deposit (p. 214)
35. Maus mine (p. 214-215)
36. a. Copps Branch marble quarry and limonite mine (Singewald, 1911, p. 216)*
b. Shriver marble quarry (Mathews and Grasty, 1910, p. 362-363)*
37. Avondale limonite mines (Singewald, 1911, p. 216)
38. a. Hyde marble quarry (Ostrander and Price, 1940, p. 45)
b. Staub and Smith marble quarries (Mathews and Grasty, 1910, p. 363-364)
39. Carbaugh's marble quarry (Mathews and Grasty, 1910, p. 363)*
40. Rupp marble quarry (Mathews and Grasty, 1910, p. 364)
41. Roop marble and copper mines (Frazer, 1881; Singewald, 1946, p. 157-158)
42. Linwood marble quarries (Mathews and Grasty, 1910, p. 365)
43. Englar limestone quarry (Mathews and Grasty, 1910, p. 366)
44. Gilbert limestone quarry (Mathews and Grasty, 1910, p. 365-366)
45. Yingling sandstone quarry (Mathews, 1898, p. 206-207)

Cecil County
1. Bald Friar feldspar-talc quarries (Singewald, 1928, p. 106-107; Bastin, 1910, p. 76; Pearre and Heyl, 1960)
2. Pilot feldspar quarries (Singewald, 1928, p. 107-108)
Worth Brothers quarry
Caldwell quarries
3. a. Weiant feldspar and verde-antique quarry (Singewald, 1928, p. 108; Ostrander and Price, 1940, p. 59)
b. Weiant chromite placer (Pearre and Heyl, 1960)
c. Conowingo Marble & Mineral Co. serpentine and feldspar quarry (Singewald, 1928, p. 108)
4. a. Line Pit chromite mine (Singewald, 1928, p. 177-178; Pearre and Heyl, 1960)
b. Swaggart Run chromite placers (Singewald, 1928, p. 178; Pearre and Heyl, 1960)
c. Preston-farm chromite prospects (Pearre and Heyl, 1960)
5. a. Rock Springs feldspar-talc quarries (Singewald, 1928, p. 108-109)
Schofield quarry, McVey quarry
Dawson quarry, Riley quarry
b. Rock Springs chromite placers (Pearre and Heyl, 1960)
6. Cedar Run chromite placers (Singewald, 1928, p. 179; Pearre and Heyl, 1960)
7. Taylor feldspar quarry (Mathews, 1902, p. 218; Pearre and Heyl, 1960)
8. a. Tweed chromite placer (Anon., 1899; Pearre and Heyl, 1960)
b. Stevenson-farm chromite placer (Singewald, 1928, p. 180)
9. Lincoln-farm chromite placer, Reynolds-farm placer (Singewald, 1928, p. 179-180)
10. Brown-farm chromite placer (Singewald, 1928, p. 179)
11. Port Deposit (McClanahan) granite quarries (Mathews, 1898, p. 138-146)
12. Simpcoe clay pit (Mathews, 1902, p. 208-209)
13. Frenchtown granite quarry (Mathews, 1898, p. 146-147)
14. Blythedale limonite prospect (Singewald, 1911, p. 260)
15. Simpress clay deposit (Mathews, 1902, p. 210)
16. Welch (Welsh) Point clay pit (Mathews, 1902, p. 207)
17. Maryland Clay Co. clay pits (Bascom and Miller, 1920, p. 18)
18. Charlestown clay pits (Bascom and Miller, 1920, p. 19)
19. a. American Clay Co. clay pits (Bascom and Miller, 1920, p. 18)
b. Clay pits in the Patapsco formation (Bascom and Miller, 1920, p. 19)
20. Clay pits in the Patapsco formation (Bascom and Miller, 1920)
21. Granite quarry (Bascom and Miller, 1920)
22. Russell clay pit
23. a. Stony Run granite quarries (Bascom and Miller, 1920, p. 17)
b. Northeast Firebrick Co. clay pit
c. Leslie clay pit (Bascom and Miller, 1920, p. 18)
24. Elkton gravel pit and clay pits (Bascom and Miller, 1920)
25. Grosh (Bacon Hill) clay pit (Mathews, 1902, p. 208; Bascom and Miller, 1920, p. 19)
26. Bacon Hill clay pit (Bascom and Miller, 1920)
27. Simpress clay pit (Mathews, 1902, p. 209, 210-211)
28. Childs granite quarries (Bascom and Miller, 1920, p. 17)
29. Providence granite quarry (Bascom and Miller, 1920, p. 17)
30. a. Christiana Creek gabbro quarries (Bascom and Miller, 1920)
b. Appleton quartz quarry (Bascom and Miller, 1920, p. 18)
31. Appleton granite quarry (Bascom and Miller, 1920, p. 17)
32. Elk Mills granite quarries (Bascom and Miller, 1920, p. 17)
33. Gabbro quarry (Bascom and Miller, 1920)

Charles County
1. Popes Creek diatomaceous-earth pit (Darton, 1896, p. 4)

Dorchester County
1. Williamsburg bog-iron mine (Singewald, 1911, p. 230)

Frederick County
1. Washington Jct. limonite mines (Singewald, 1911, p. 204-205)
2. a. "Potomac Marble" conglomerate quarries (Mathews, 1898, p. 187-193; Singewald, 1946, p. 143-144; Keith, 1894, p. 5, map)
b. Washington Junction sandstone quarry (Mathews, 1898, p. 207-208; Singewald, 1946, p. 144)*
3. Belt magnetite deposit (Singewald, 1911, p. 316)
4. Yingling limonite mine (Singewald, 1911, p. 316)
5. Patrick Ambush limonite mine (Singewald, 1911, p. 315-316)
6. Sugarloaf barite prospect (Ducatel, 1840, p. 25)*
7. Sugarloaf (McGill Belt) quartzite quarry (Mathews, 1898, p. 211-212)
8. Bennett Creek (Thurston) slate quarries (Dale and others, 1914, p. 85-86)
9. Hudson Supply & Equipment Co. slate quarry, 1958
10. Hudson Supply & Equipment Co. clay pits, 1958
11. Buckeystown limestone quarries, including O. J. Keller Lime Co. quarry (Mathews and Grasty, 1910, p. 393-394)
12. Alpha Portland Cement Co. cement-rock quarry, 1958
13. Limekiln (M. J. Grove Co.) limestone quarries (Mathews and Grasty, 1910, p. 392-393)
14. Dave Thomas limonite mine (Singewald, 1911, p. 206)
15. Kiefer Thomas limonite mine (Singewald, 1911, p. 205)*
16. Building sand pits (Singewald, 1946, p. 146)
17. Grove limestone quarries for lime and crushed stone. 1958
M.J.Grove Lime Co. quarry (Singewald, 1946, p. 138-139)
Old Tabler (Frederick) Lime & Stone Co. quarry (Mathews and Grasty, 1910, p. 389-391)
18. Frederick Brick Works clay pit
19. Schley (Shank and Etzler) limestone quarries (Singewald, 1946, p. 138)
20. Zimmerman and Nina Thomas limonite mines (Singewald, 1911, p. 203-204)
21. Clifton gold "mine" (*Baltimore Sun*, Aug. 4, 1935)
22. Ceresville limestone quarry (Stose and Stose, 1946, p. 45-46)
23. Fountain Rock (Stimmell, Stoner & Powell) limestone quarry, for lime and crushed stone (Singewald, 1946, p. 138)
24. McAleer limestone quarry, for lime (Mathews and Grasty, 1910, p. 386)
25. LeGore limestone quarries, for lime and stone (Singewald, 1946, p. 136-138)
LeGore Lime Co. quarry, 1958
S. W. Barrick & Sons, Inc. quarry, 1958
26. Grim limonite mine (Singewald, 1911, p. 217)
27. Catoctin metabasalt quarries, for roofing granules (Singewald, 1946, p. 146)
28. South Mountain native copper prospect (Pearre, in press)
29. South Mountain native copper prospects—Washington and Frederick Cos. (Jonas and Stose, 1938)
30-31. Catoctin limonite mines (Singewald, 1911, p. 194-201; Ducatel, 1840, p. 21)
32. Kunkles' (Catoctin) magnetite mines (Singewald, 1911, p. 314-315)
33-34. Ijamsville slate quarries (Jonas and Stose, 1938; Williams, 1893, p. 134; Mathews, 1898, p. 231-232)
35. New London copper mine (Butler and McCaskey, 1915; Singewald, 1946, p. 155-156; Pearre, in press)
36. Farmers Cooperative Assoc., Inc., marble quarry, for lime (Singewald, 1946, p. 139-140)
37. Clary limonite mine (Singewald, 1911, p. 317)
38. Ensor limonite mine (Singewald, 1911, p. 216-217)
39. Old slate quarry
40. Unionville (Pearre) zinc-copper mine (Ostrander and Price, 1940, p. 49; Pearre, in press)
41. Dolly Hyde copper mine (Jackson, 1853, p. 476-480; Singewald, 1946, p. 156; Pearre, in press)
42. Hammond (Pittinger) and Hines copper prospects (Singewald, 1946, p. 158; Pearre, in press)
43. Liberty copper mines (Overbeck, 1916, p. 168-171; Singewald, 1946, p. 156-157; Pearre, in press)
44. a. Liberty copper prospects and ruins of old copper-smelting furnace (Pearre, in press)
b. Old marble quarries
45. Repp copper mine (Singewald, 1946, p. 157; Pearre, in press)
46. a. Cox copper-lead-zinc mines (Singewald, 1946, p. 157; Pearre, in press), including Mountain View lead mine (Williams, 1891, p. 73-75; Ostrander, 1941, p. 121-123; Singewald, 1946, p. 161-162; Pearre, in press)
b. Eiler zinc-lead prospect (Pearre, in press)
47. Quartzite quarry, 1958
48. Sauble limestone quarry and barite prospect (Watson and Grasty, 1916, p. 530-532)
49. Maryland Cremo Marble (Rhinehart) marble quarry (Mathews and Grasty, 1910, p. 368-369; Singewald, 1946, p. 143)*
50. Wolf(e) marble quarry, Lehigh Portland Cement Co., formerly Tidewater Portland Cement Co. (Singewald, 1946, p. 140-141)
Haines marble quarry (Mathews and Grasty, 1910, p. 368)
51. Emmittsburg sandstone quarry (Jonas and Stose, 1938)

Garrett County
1. Lower Youghiogheny (Friend) ironstone mine (Singewald, 1911, p. 242)
2. Winding Ridge ironstone mines (Singewald, 1911, p. 242)
3. Coddington ironstone mine (Singewald, 1911, p. 243)
4. Tarkiln Run (Union Fire Brick Co.) refractory-clay mines (Waagé, 1950, p. 106, 107, 117-126, 143)
5. Amish Road clay prospect (Waagé, 1950, p. 146)
6. Grantsville sandstone quarry (Martin, 1902, p. 226)*
7. Morgart Property clay-coal strippings (Waagé, 1950, p. 137-139)
8. Sandstone quarry (Waagé, 1950, p. 125, 127)
9. Burnwell clay strip-mine (Waagé, 1950, p. 135-136)
10. Stone House coal-clay strip-mine (Waagé, 1950, p. 129, 134-135)
11. Flagstone quarry (Martin, 1902, p. 225)*
12. Mt. Savage refractory-clay mines—Garrett and Allegany Cos. (Clark and others, 1900, p. 181-182, atlas)
13. Big Savage refractory-clay mines (Waagé, 1950, p. 65-67, 106)*
14. Tilly Field ironstone mines (Singewald, 1911, p. 247)
15. Hansel ironstone mine (Singewald, 1911, p. 248)
16. Mill Run limestone quarry, for lime (Martin, 1902, p. 223)*
17-31. Small limestone quarries (Martin, 1908)
32-34. Small limestone quarries (Darton and Taff, 1896)
35. Taylor Friend strip mine (Singewald, 1911, p. 243)

Harford County
1. Ayers magnetite prospect (Singewald, 1911, p. 319)
2. Dinning rutile prospect (Ostrander, 1942; Tomlinson, 1946; Pearre and Heyl, 1960)
3. Jenkins asbestos mine, Neikirk asbestos mine (Bangs, 1946, p. 71; Pearre and Heyl, 1960)
4. Cambria serpentine quarries (Mathews, 1898, p. 196-197; Pearre and Heyl, 1960)
5. Cardiff (Maryland Green Marble Co.) verde-antique quarry (Pearre and Heyl, 1960)
6-7. Peach Bottom slate quarries (Mathews, 1898, p. 215-231)
8. Broad Creek verde-antique quarries (Mathews, 1898, p. 193-196; Pearre and Heyl, 1960)
9. Whiteford quartz-feldspar quarries (Singewald, 1928, p. 141, pl. 6; p. 109, pl. 2)
10. Indian Rock Flint Co. quartz quarries (Singewald, 1928, p. 140-141, pl. 6)
11. Dublin talc quarry (Pearre and Heyl, 1960)
12. a. Dublin talc and flint quarries (Gillson, 1937; Diller and others, 1920; Pearre and Heyl, 1960)
b. Klondike flint quarry (Singewald, 1928, p. 142, pl. 6)
13. Husband Flint Milling Co. flint quarries (Singewald, 1928, p. 142, pl. 6)
14. Lochary flint quarry (Singewald, 1928, p. 142, pl. 6)
15. Cherry Hill chromite mine and placer (Singewald, 1928, p. 183; Pearre and Heyl, 1960)
16. Cherry Hill magnetite mine (Singewald, 1911, p. 320; Pearre and Heyl, 1960)
17. Crowl flint quarry (Singewald, 1928, p. 143, pl. 6)
18. a. Ayers chromite mine (Singewald, 1928, p. 183; Pearre and Heyl, 1960)
b. Rocks talc quarry (U. S. Geol. Survey, 1921; Pearre and Heyl, 1960)
19. Reed and Wilkins chromite mines (Singewald, 1928, p. 181-182; Pearre and Heyl, 1960)
"Birdseye" chromite mine and prospects (Pearre and Heyl, 1960)
20. Hope and Scarff limonite mines (Singewald, 1911, p. 225-226)
21. Tolley limonite mine (Singewald, 1911, p. 226-227)
22. Franklinville granite quarry (Miller and others, 1917, p. 13)
23-29. Mines in the Arundel formation (Singewald, 1911, p. 260-262; Miller and others, 1917)
23. Walsh and Sewell mines
24. Hanway and Skillman mines
25. Crow, Pine Grove, Joppa mines
26. Willick, Prospect Hill, Benser mines
27. Shipley, Lomyer, and Flattermash mines
28. Stancill's clay pits, 1958
29. Welzenbach mine

Howard County
1. Annapolis Rock quartz quarry (Singewald, 1928, p. 152-153, pl. 7)
2. a. Beck flint quarry (Singewald, 1928, p. 152, pl. 7)
b. Rice magnetite mine (Singewald, 1911, p. 319)
c. Forsythe (Ellicott) limonite mine (Singewald, 1911, p. 318)
3. Day flint quarry (Singewald, 1928, p. 151, pl. 7)
4. Iglehart flint quarry (Singewald, 1928, p. 151, pl. 7)
5. Ridgely flint quarry (Singewald, 1928, p. 152, pl. 7)
Hudson flint quarry (Singewald, 1928, p. 152, pl. 7)
6. Herbert Crooks flint quarry (Singewald, 1928, p. 150, pl. 7)
Richard Williams flint quarry (Singewald, 1928, p. 151, pl. 7)
7. Marriottsville feldspar quarries (Singewald, 1928)
Baugh & Sons Co. quarry (p. 126-127)
Zepp quarries (p. 126-127)
Mathews and Wright quarries (p. 128)
Stromberg feldspar and flint quarry (p. 128, pl. 4; p. 150, pl. 7)
8. Marriottsville feldspar and flint quarries (Singewald, 1928)
Hanna quarry, Feazer quarry (p. 129)
Sandusky quarries (p. 128)
Lee Rendu flint quarry (p. 151, pl. 7)
See Carroll County, 8
9. Warfield feldspar quarries (Singewald, 1928, p. 126-127)
See Carroll County, 9
10. Baltimore Feldspar Co.'s Woodstock feldspar and flint quarries (Singewald, 1928, p. 125-126; p. 150, pl. 7)
11. Zepp flint quarries (Singewald, 1928, p. 149-150, pl. 7)
12. Howard Smith flint quarry (Singewald, 1928, p. 149, pl. 7)
13. Brown feldspar quarries (Singewald, 1928, p. 125; Bastin, 1910, p. 75)
14. Woodstock feldspar quarries (Singewald, 1928, pl. 4)
Arrington quarries (p. 123-124)
Moody quarry (p. 125)
Shipley quarry (p. 125)
Frost quarry (Bastin, 1910, p. 75-76; Singewald, 1928, p. 124)
15. Dorseys Run (Feeney and Atherton) feldspar quarries—Howard and Baltimore Cos. (Singewald, 1928, p. 113, 123, pl. 4)
16. Alberton quarries (Singewald, 1928, pl. 4)
Gary feldspar quarry (p. 123)
See Baltimore County, 16
17. Alberton feldspar quarries (Singewald, 1928, pl. 4)
Theis (Highe) quarries (p. 123)
Perry quarries (p. 123)
18. Alberton feldspar and flint quarries (Singewald, 1928, pl. 4, 7)
Streker quarry (p. 122)
Highe quarries (p. 122)
Fagan quarries (p. 122)
Fagan and Highe quarries (p. 149)
19. Ellicott City granite quarries—Baltimore and Howard Cos. (Mathews, 1898, p. 147-150; Mathews and Watson, 1929, p. 242)*
20. Ilchester feldspar quarries (Singewald, 1928, pl. 4)
Mount St. Clement College quarry (p. 121)
Weber quarry (p. 121)
Fisher and Carozza quarries (p. 121)
Wharton quarry (p. 121)
21. a. Ilchester feldspar quarries (Singewald, 1928, pl. 4)
O'Connor Farm quarries (p. 119-120)
Cordy quarry (p. 120)
Pindell quarries (p. 120)
Baltimore Feldspar Co. quarry (p. 120-121)
b. Thomas flint quarry (Singewald, 1928, p. 149, pl. 7)
22-24. Mines in the Arundel formation (Singewald, 1911, p. 276-278)
22. Hobbs and Brown mines; *see also Anne Arundel Co. 22*
23. Haslup and Scaggs mines
24. Talbott, Brooks, and Wilson mines
25. Lawyers Hill flint quarry (Singewald, 1928, p. 149, pl. 7)
26. Melvin feldspar quarries (Singewald, 1928, p. 129-130, pl. 4)
27. Quartz quarry
28. Guilford granite quarries (Mathews, 1898, p. 156-158)
29. Maryland (Simpsonville) mica-beryl mines, Parlette mica prospect (Sterrett, 1923, p. 102-103; Ostrander and Price, 1940, p. 34)
30. Ben Murphy (Scaggsville) mica mine (Sterrett, 1923, p. 104)

Kent County
1. Sandy Bottom greensand-marl pit (Miller and others, 1917, p. 13)
2. Chestertown Brick Co. clay pit (Miller and others, 1917; Miller, 1926a, p. 97; U. S. Bur. Mines, 1955)

Montgomery County
1. Dickerson diabase quarries (Ostrander and Price, 1940, p. 40)
2. Mount Ephraim slate prospect (Dale and others, 1914, p. 86)*
3. Etchison chromite mine (Singewald, 1928, p. 191; Shannon, 1926; Pearre and Heyl, 1960)
4. Griffith chromite mine (Dacatel, 1838, p. 33-34; Pearre and Heyl, 1960)
5. Brookeville manganese prospect (Singewald, 1928, p. 192)*
6. Ellicott gold mine (Justice and Emmons, 1849; Farquhar, 1952, p. 115)
7. Earth Products Company feldspar quarries and mica prospects (Singewald, 1928, p. 130, pl. 3; Sterrett, 1923, p. 104)
8. Kensington (Gilmore) mica mine (Sterrett, 1923, p. 104-105; Ostrander and Price, 1940, p. 39)
9. Halpine crushed-schist quarry (U. S. Geol. Survey, 1956)
10. Bethesda gold mine (Nitze and Wilkens, 1895, p. 689)
11. Schist quarry (U. S. Geol. Survey, 1956)
12. Huddleston gold mine (Emmons, 1890, p. 404)
13. Bogley gold mine (Ulke, 1939, map)
14. Rockville crushed-serpentine quarry (Pearre and Heyl, 1960)
15. Seneca Red sandstone quarries (Mathews, 1898, p. 199-206)*
16. Allerton-Ream gold mines and prospects, including Ford (Cool Spring Branch) mine (Emmons, 1890, p. 400-401; Ulke, 1939, p. 299; Shosteck, 1953)
17. Anderson (Potomac) gold mine (Weed, 1905, p. 129-131)
18. Maryland gold mine (Weed, 1905, p. 128-129, 131; Zodac, 1947)
19. Montgomery (Alton) gold mine (Ostrander, 1938; Ulke, 1939, p. 299)
20. Harrison (Sawyer) and Eagle gold mines (Emmons, 1890, p. 399, 401-404)
21. Rock Run gold placers
22. Irma and Lynch gold mines (Emmons, 1890, p. 401, 403-404)
23. Schist quarry (U. S. Geol. Survey, 1956)
24. Congressional and Stoneyhurst schist quarries (U. S. Geol. Survey, 1956)

Prince Georges County
1-10. Mines in the Arundel formation (Singewald, 1911, p. 285-291)
1. John Sadilek, Joseph Sadilek, and Haker mines
2. Green and Ashland mines
3. Mines east of Muirkirk; Duvall, Milbrook, Friel, and Tyson mines
4. Washington Brick Co. clay pits
5. a. O'Brien, Hooff, Allan, Schriver, and Roberts mines
b. William Allen clay pit, 1958
6. California mines
7. Kirwan, Nicholson, and other mines west of Contee
8. Swampoodle, Donaldson, and Mason mines
9. Old Buck, Reed, and Skaggs mines
10. Hedgman mines
11. Jones mine, Arundel-type ore (Singewald, 1911, p. 290)
12. Bowie Operating Corporation clay pit
13. Sandstone quarry in Magothy formation (Shattuck and others, 1907)
14. West Bros. Brick Co. clay pits (U. S. Geol. Survey, 1956)

Queen Annes County
1-3. Marl pits (Miller and others, 1917)

Talbot County
1. Easton (New Brick and Tile Co.) clay pit (Miller, 1926b, p. 84, map)
2-6. Local marl pits (Miller, 1926b, map)

Washington County
1. Tonoloway Ridge sand quarries (Stose and Swartz, 1912, p. 21)
2. Round Top Natural Cement Co. mine (Mathews and Grasty, 1910, p. 435-436; Stose and Swartz, 1912, p. 22; Cloos, 1951, p. 169-170)
3. Sandstone quarry, for building stone (Stose and Swartz, 1912, p. 23)
4. a. Whitmeyer-Bridges limestone quarry, for lime (Mathews and Grasty, 1910, p. 435)
b. Cove Ridge building-sand quarry (Stose and Swartz, 1912, p. 21)
5. Hancock brick-shale quarry (Stose and Swartz, 1912, p. 23)
6. Millstone sandstone quarry, for railroad ballast (Stose and Swartz, 1912, p. 23)
7. Limestone quarry, for lime (Stose and Swartz, 1912, p. 23)
8. Indian Spring limonite mine (Singewald, 1911, p. 184-185)
9. Green Spring limonite mine and prospects (Singewald, 1911, p. 185-186)
10. Charles limonite prospects (Singewald, 1911, p. 185)
11. Green Spring limonite mine (Singewald, 1911, p. 187-188)
12. Wheatstone limonite mine (Singewald, 1911, p. 181-182)
13. Quarry in Elbrook limestone (Cloos, 1958, p. 55)
14. Wilson Farm limonite mine (Singewald, 1911, p. 191-192)
15. McLaughlin limonite mine (Singewald, 1911, p. 202)
16. Pinesburg Station (Potomac Valley Stone & Lime Co.) limestone quarries (Cloos, 1951, p. 168-169; Mathews and Grasty, 1910, p. 414-415)
17. Victor Cushwa & Sons shale and clay quarry (Cloos, 1951, p. 175-176)
18. Maryland Lime and Fertilizer Corp. marl pit (Singewald, 1951, p. 175)
19. Henry Dellinger marl pit (Singewald, 1951, p. 175)
20. Marsh Creek marl pits (Singewald, 1951, p. 174-175)
Eastern Lime Marl and Fertilizer Co.
W. J. Hilliard
Paul R. Metz
21. Wyand and Geeting limonite mines (Singewald, 1911, p. 202-203)*
22. Eakles Mills limestone quarry (Cloos, 1951, p. 165; Keith, 1894)
23. Rohrersville limestone quarries (Keith, 1894)
24. Appletown limonite mine (Singewald, 1911, p. 192-193)
25. Boonsboro limonite mine (Singewald, 1911, p. 202)
26. Limonite mine NW. of Boonsboro (Singewald, 1911, p. 202)
27. Lane Property limonite mines (Singewald, 1911, p. 192)
28. Kohler limonite mine (Singewald, 1911, p. 192)
29-32. South Mountain native copper prospects (Pearre, in press)
33. Cavetown (Zouck) limestone quarry, for lime (Cloos, 1951, p. 165; Mathews and Grasty, 1910, p. 410-411)
34. Security (North American Cement Corp.) limestone quarry (Cloos, 1951, p. 166, 170-171)
35. S. P. Angle limestone quarry (Cloos, 1951, p. 167)
36. Adams marl pit (Singewald, 1951, p. 175)
37. Dargan manganese mine (Hewett, 1916, p. 69-71; Singewald, 1928, p. 192-194)
38. Maryland (Thropp) limonite mines (Singewald, 1911, p. 193)

Wicomico County
1. Powellsville bog-iron deposit (Singewald, 1911, p. 230)

Worcester County
1. Snow Hill bog-iron mine (Singewald, 1911, p. 230-231)

Commodity index

Asbestos
Baltimore Co. and City 17b
Harford Co. 3
Barite
Frederick Co. 6, 48
Beryl
Howard Co. 29
Calcite
Baltimore Co. and City 40c
Cement rock
Allegany Co. 23, 26
Frederick Co. 12
Washington Co. 2
Chromite
Baltimore Co. and City 22, 23a, 24, 25a-b, 26a-b, 27b, 55a
Cecil Co. 3b, 4, 5b, 6, 8-10
Harford Co. 15, 18a, 19
Montgomery Co. 3, 4
Clay
Allegany Co. 12-15
Anne Arundel Co. 3, 7-9, 15, 24
Baltimore Co. and City 81, 85a, 89, 91, 93, 100a-b, 107-109
Cecil Co. 12, 15-18, 19a-b, 20, 22, 23b-c, 24-27
Frederick Co. 10, 18
Garrett Co. 4-5, 7, 9, 10, 12, 13
Harford Co. 28
Kent Co. 2
Prince Georges Co. 4, 5b, 12, 14
Talbot Co. 1
Washington Co. 17
Conglomerate
Frederick Co. 2a
Copper
Baltimore Co. and City 56
Carroll Co. 13-16, 18, 41
Frederick Co. 28, 29, 35, 40-43, 44a, 45, 46a
Washington Co. 29-32
Diabase
Montgomery Co. 1
Diatomaceous earth
Calvert Co. 1, 3
Charles Co. 1
Dolomite marble
Baltimore Co. and City 39, 40a-c, 41, 53
Feldspar
Baltimore Co. and City 2a, 4a, 6, 7a, 9-13, 15, 16, 17a, 18b, 61, 63-66
Carroll Co. 4b, 8, 9a

Commodity index

Feldspar
Cecil Co. 1, 2, 3a, 3c, 5a, 7
Harford Co. 9
Howard Co. 7-10, 13-18, 20, 21a, 26
Montgomery Co. 7
Gabbroic rock
Baltimore Co. and City 18a, 20, 67, 68, 72-75
Cecil Co. 30a, 33
Gneiss
Baltimore Co. and City 30, 52, 59a, 60, 62, 70, 71, 76
Gold
Carroll Co. 19
Frederick Co. 21
Montgomery Co. 6, 10, 12, 13, 16-22
Granitic rock
Baltimore Co. and City 7b, 8, 19, 69
Cecil Co. 11, 13, 21, 23a, 28, 29, 31, 32
Harford Co. 22
Howard Co. 19, 28
Greensand marl
Calvert Co. 2, 3
Kent Co. 1
Iron: hematite
Allegany Co. 19, 24, 25, 29
Carroll Co. 13
Iron: ironstone or iron carbonate
(Singewald's "clay ironstone," 1911, p. 236, 237)
Allegany Co. 1-5, 7, 8, 10, 11, 13
Garrett Co. 1-3, 14, 15, 35
Iron: limonite
Allegany Co. 30, 31, 36-38
Baltimore Co. and City 29, 31, 32b, 36-38, 42-49, 57, 58, 59b
Caroline Co. 1, 2
Carroll Co. 20, 22, 25-35, 36a, 37
Cecil Co. 14
Dorchester Co. 1
Frederick Co. 1, 4, 5, 14, 15, 20, 26, 30, 31, 37, 38
Harford Co. 20, 21
Howard Co. 2c
Washington Co. 8-12, 14, 15, 21, 24-28, 38
Wicomico Co. 1
Worcester Co. 1
Iron: magnetite
Baltimore Co. and City 34, 35
Carroll Co. 13-16, 18, 21
Frederick Co. 3, 32
Harford Co. 1, 16
Howard Co. 2b
Iron: Mixed ores of the Arundel formation (iron carbonate, limonite, hematite, ocher)
Anne Arundel Co. 10-26
Baltimore Co. and City 77-88, 90-92, 94-106
Harford Co. 23-27, 29
Howard Co. 22-24
Prince Georges Co. 1-3, 5a, 6-11
Lead
Frederick Co. 46
Limestone
Allegany Co. 6, 9, 16, 17, 20, 21, 28, 32-34
Carroll Co. 43, 44
Frederick Co. 11, 13, 17, 19, 22-25, 48
Limestone
Garrett Co. 16-34
Washington Co. 4a, 7, 13, 16, 22, 23, 33-35
Magnesite
Baltimore Co. and City 23b, 55c
Manganese
Montgomery Co. 5
Washington Co. 37
Marble
Baltimore Co. and City 16, 61
Carroll Co. 23, 24, 36a-b, 38-42
Frederick Co. 36, 44b, 49, 50
Marl
Queen Annes Co. 1-3
Talbot Co. 2-6
Washington Co. 18-20, 36
Metabasalt
Frederick Co. 27
Mica
Howard Co. 29, 30
Montgomery Co. 7, 8
Quartz
Baltimore Co. and City 1, 2a, 3, 10c, 13b, 14a, 21, 25c, 26c, 28, 37
Carroll Co. 1-3, 4a, 7b, 8, 10-12, 17
Cecil Co. 30b
Harford Co. 9, 10, 12, 13, 14, 17
Howard Co. 1, 2a, 3-8, 10-12, 18, 21b, 25, 27
Quartzite
Allegany Co. 18
Baltimore Co. and City 2b, 4b, 5, 14b, 30, 32a, 50-52, 54
Carroll Co. 5, 9b
Frederick Co. 7, 47
Rutile
Calvert Co. 4
Harford Co. 2
Sand for special uses
Allegany Co. 18
Anne Arundel Co. 1, 4, 5
Baltimore Co. and City 40d-e
Frederick Co. 16
Washington Co. 1, 4b
Sandstone
Allegany Co. 22, 27
Anne Arundel Co. 2, 6
Calvert Co. 5
Carroll Co. 45
Frederick Co. 2b, 51
Garrett Co. 6, 8, 11
Montgomery Co. 15
Prince Georges Co. 13
Washington Co. 3, 6
Schist
Montgomery Co. 9, 11, 23, 24
Serpentine
Baltimore Co. and City 27a, 33, 55b
Cecil Co. 3a, 3c
Harford Co. 4, 5, 8
Montgomery Co. 14
Shale
Allegany Co. 35
Washington Co. 5, 17
Slate
Frederick Co. 8, 9, 33, 34, 39
Harford Co. 6-7
Montgomery Co. 2
Talc and soapstone
Carroll Co. 6, 7a
Cecil Co. 1, 5a
Harford Co. 11, 12a, 18b
Zinc
Frederick Co. 40, 46

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EXPLANATION

Mine, quarry, pit, or placer working

Group of mines, quarries, pits, or placer workings

X
Prospect or mineral deposit

Group of prospects or deposits

asb	Asbestos
Ba	Barite
Be	Beryl
Ca	Calcite
cem	Cement rock
Cr	Chromite
cl	Clay
cgl	Conglomerate
Cu	Copper
db	Diabase
diat	Diatomaceous earth
dol mbl	Dolomite marble
fs	Feldspar
gb	Gabbroic rock
gn	Gneiss
Au	Gold
gr	Granitic rock
gsd	Greensand marl
Fe	Iron
Pb	Lead
ls	Limestone
Mg	Magnesite
Mn	Manganese
mbl	Marble
ml	Marl
mb	Metabasalt
mc	Mica
qz	Quartz, flint
qzt	Quartzite
Ti	Rutile
sd	Sand for special uses
ss	Sandstone
sch	Schist
sp	Serpentine (includes verde antique marble)
sh	Shale
sl	Slate
tc	Talc and soapstone
Zn	Zinc

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MINERAL DEPOSITS OF MARYLAND, EXCLUDING FUELS, SAND, AND GRAVEL

Compiled by
Nancy C. Pearre

SCALE 1:250 000
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1961

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