

**WARD'S COLLECTION OF CLASSIC NORTH AMERICAN
ROCKS**

45 - 7050

code 1100 (0906)

45-7050.sam

**WARD'S COLLECTION OF
CLASSIC NORTH AMERICAN ROCKS
45-7050**

I. IGNEOUS ROCKS

A. Granite - Rhyolite Family

Intrusive

- | | |
|-------------------------------|-------------------------------|
| 1. Biotite granite | Barre, Vermont, USA |
| 2. Muscovite-biotite granite | Concord, New Hampshire, USA |
| 3. Biotite hornblende granite | St. Cloud, Minnesota, USA |
| 4. Alkalic granite | Quincy, Massachusetts, USA |
| 5. Aplite | Boulder County, Colorado, USA |
| 6. Quartz monzonite porphyry | Garfield, Colorado, USA |
| 7. Granodiorite | St. Cloud, Minnesota, USA |

Extrusive

- | | |
|-----------------------|--------------------------------|
| 8. Obsidian | Lake County, Oregon, USA |
| 9. Pumice | Millard County, Utah, USA |
| 10. Rhyolite tuff | Frying Pan Basin, Montana, USA |
| 11. Rhyolite | Castle Rock, Colorado, USA |
| 12. Rhyolite porphyry | Chaffee County, Colorado, USA |

B. Syenite - Trachyte Family

Intrusive

- | | |
|-----------------------------------|------------------------------|
| 13. Hornblende syenite | Cuttingsville, Vermont, USA |
| 14. Alkalic syenite | Cripple Creek, Colorado, USA |
| 15. Trachyte porphyry (bostonite) | Essex County, New York, USA |

Extrusive

- | | |
|-----------------------|------------------------------|
| 16. Trachyte porphyry | Cripple Creek, Colorado, USA |
|-----------------------|------------------------------|

C. Foidal Syenite - Phonolite Family

Intrusive

- | | |
|--------------------------|---------------------------------|
| 17. Nepheline syenite | Bancroft, Ontario, Canada |
| 18. Malignite | Park Co., Montana, USA |
| 19. Ijolite | McClure Mountain, Colorado, USA |
| 20. Siderite carbonatite | Iron Hill, Colorado, USA |

Extrusive

- | | |
|---------------|------------------------------|
| 21. Phonolite | Cripple Creek, Colorado, USA |
|---------------|------------------------------|

D. Monzonite - Latite Family

Intrusive

22. Monzonite

Silverton, Colorado, USA

Extrusive

23. Latite porphyry

Wolf Creek, Montana, USA

E. Diorite - Andesite Family

Intrusive

24. Tonalite (quartz diorite)

San Diego County, California, USA

25. Diorite

Los Angeles County, California, USA

Extrusive

26. Dacite

N.W. of Helena, Montana, USA

27. Hornblende andesite

Mineral County, Nevada, USA

F. Gabbro - Basalt Family

Intrusive

28. Hornblende gabbro

San Diego County, California, USA

29. Norite

Wollaston Township, Ontario, Canada

30. Gabbro

Duluth, Minnesota, USA

31. Hornblende gabbro

Salem, Massachusetts, USA

32. Anorthosite

Elizabethtown, New York, USA

33. Diabase

Jersey City, New Jersey, USA

Extrusive

34. Scoria

Klamath Falls, Oregon, USA

35. Amygdaloidal basalt

Keweenaw County, Michigan, USA

36. Basalt

Chimney Rock, New Jersey, USA

37. Olivine basalt porphyry

Helena, Montana, USA

38. Diabase porphyry

Cape Ann, Massachusetts, USA

G. Lamprophyre

39. Lamprophyre

Spanish Peaks, Colorado, USA

H. Peridotite - Pyroxenite Family

40. Pyroxenite (harzburgite)

Stillwater Complex, Montana, USA

41. Dunite (olivine peridotite)

Balsam, North Carolina, USA

42. Lamproite

Buffalo, Kansas, USA

43. Serpentine

Eden Mills, Vermont, USA

II. SEDIMENTARY ROCKS

A. Sandstones and Related Rocks

- | | |
|----------------------------|-------------------------------|
| 44. Quartz conglomerate | Fremont County, Colorado, USA |
| 45. Gray sandstone | Berea, Ohio, USA |
| 46. Red sandstone | Potsdam, New York, USA |
| 47. Argillaceous sandstone | Portageville, New York, USA |
| 48. Glauconitic sandstone | Hazlet, New Jersey, USA |
| 49. Siltstone | near Newhall, California, USA |
| 50. Arkose | Mt. Tom, Massachusetts, USA |
| 51. Graywacke | Grafton, New York, USA |

B. Shales and Related Rocks

- | | |
|------------------------|--------------------------------|
| 52. Argillaceous shale | Rochester, New York, USA |
| 53. Carbonaceous shale | St. Clair, Pennsylvania, USA |
| 54. Oil shale | Garfield County, Colorado, USA |
| 55. Bauxite | Bauxite, Arkansas, USA |

C. Chalcedonic and Related Rocks

- | | |
|------------------------|----------------------------------|
| 56. Chert | Joplin, Missouri, USA |
| 57. Siliceous oolite | State College, Pennsylvania, USA |
| 58. Diatomaceous earth | Lompoc, California, USA |

D. Limestone and Related Rocks

- | | |
|-------------------------|------------------------------------|
| 59. Encrinal limestone | Lockport, New York, USA |
| 60. Limestone | Fremont County, Colorado, USA |
| 61. Cherty limestone | LeRoy, New York, USA |
| 62. Oolitic limestone | Bedford, Indiana, USA |
| 63. Chalk | Oktibbeha County, Mississippi, USA |
| 64. Calcareous tufa | Mumford, New York, USA |
| 65. Dolomitic limestone | Rochester, New York, USA |

E. Miscellaneous Sedimentary Rocks

- | | |
|-------------------------|-----------------------------------|
| 66. Phosphorite | Conda, Idaho, USA |
| 67. Hematitic limestone | Wayne County, New York, USA |
| 68. Siderite rock | Negaunee, Michigan, USA |
| 69. Rock gypsum | Fremont County, Colorado, USA |
| 70. Rock anhydrite | Hants County, Nova Scotia, Canada |

III. METAMORPHIC ROCKS

- | | |
|------------------------------------|--------------------------------------|
| 71. Cordierite hornfels | near Helena, Montana, USA |
| 72. Marble (pink) | Tate, Georgia, USA |
| 73. Dolomite marble | Essex County, New Jersey, USA |
| 74. Verde antique | Rochester, Vermont, USA |
| 75. Garnet-wollastonite skarn | Willsboro, New York, USA |
| 76. Quartzite | Baraboo, Wisconsin, USA |
| 77. Slate (gray) | Bangor, Pennsylvania, USA |
| 78. Phyllite | Ely, Vermont, USA |
| 79. Mica schist | Manhattan, New York, USA |
| 80. Chlorite schist | Chester, Vermont, USA |
| 81. Stilpnomelane schist | Mendocino County, California, USA |
| 82. Talc-tremolite schist | St. Lawrence County, New York, USA |
| 83. Graphite schist | Warren County, New York, USA |
| 84. Andalusite (chiastolite) slate | Mariposa County, California, USA |
| 85. Staurolite quartzite | Petaca, New Mexico, USA |
| 86. Kyanite quartzite | near Ogilby, California, USA |
| 87. Sillimanite-garnet gneiss | Warren County, New York, USA |
| 88. Cordierite anthophyllite skarn | Guffey, Colorado, USA |
| 89. Augen gneiss | St. Lawrence County, New York, USA |
| 90. Granitoid gneiss | Salisbury, North Carolina, USA |
| 91. Biotite gneiss | Uxbridge, Massachusetts, USA |
| 92. Eclogite | Sonoma County, California, USA |
| 93. Actinolite schist | Chester, Vermont, USA |
| 94. Cummingtonite schist | Leeds, South Dakota, USA |
| 95. Hornblende schist | Mitchell County, North Carolina, USA |
| 96. Glaucophane schist | Sonoma County, California, USA |
| 97. Hornblende gneiss | Clintonville, New York, USA |
| 98. Epidosite | Texas Creek, Colorado, USA |
| 99. Jaspilite | Negaunee, Michigan, USA |
| 100. Grunerite-magnetite rock | Michigamme, Michigan, USA |

code 0608

45-7050.doc

**WARD'S COLLECTION OF
CLASSIC NORTH AMERICAN ROCKS**

45-7050

I. IGNEOUS ROCKS

A. Granite - Rhyolite Family

Intrusive

- 347-3615 1. Biotite granite
- 3650 2. Muscovite-biotite granite
- 3635 3. Biotite hornblende granite
- 3610 4. Alkalic granite
- 3604 5. Aplite
- 5120 6. Quartz monzonite porphyry
- 3684 7. Granodiorite

Extrusive

- 347-5740 8. Obsidian
- 6440 9. Pumice
- 8370 10. Rhyolite tuff
- 6900 11. Rhyolite
- 6915 12. Rhyolite porphyry

B. Syenite - Trachyte Family

Intrusive

- 347-7969 13. Hornblende syenite
- 7944 14. Alkalic syenite
- 8275 15. Trachyte porphyry
(bostonite)

Extrusive

- 347-8259 16. Trachyte porphyry

C. Foidal Syenite - Phonolite Family

Intrusive

- 347-5550 17. Nepheline syenite
- 5574 18. Malignite
- 0160 19. Ijolite
- 0064 20. Siderite carbonatite

Extrusive

- 347-6250 21. Phonolite

D. Monzonite - Latite Family

Intrusive

- 347-5104 22. Monzonite

Extrusive

- 347-4530 23. Latite porphyry

E. Diorite - Andesite Family

Intrusive

- 347-8200 24. Tonalite (quartz diorite)
- 2690 25. Diorite

Extrusive

- 347-2520 26. Dacite
- 0505 27. Hornblende Andesite

F. Gabbro - Basalt Family

Intrusive

- 347-3304 28. Hornblende gabbro
- 3315 29. Norite
- 3305 30. Gabbro
- 3310 31. Hornblende gabbro
- 346-4519 32. Anorthosite
- 347-2620 33. Diabase

Extrusive

- 347-7300 34. Scoria
- 1059 35. Amygdaloidal basalt
- 1035 36. Basalt
- 1075 37. Olivine basalt porphyry
- 2635 38. Diabase porphyry

G. Lamprophyre

- 347-0165 39. Lamprophyre

H. Peridotite - Pyroxenite Family

- 347-6475 40. Pyroxenite (harzburgite)
- 346-5830 41. Dunite (olivine peridotite)
- 347-6155 42. Lamproite
- 346-7264 43. Serpentine

II. SEDIMENTARY ROCKS

A. Sandstones and Related Rocks

- 347-2229 44. Quartz conglomerate
- 7030 45. Gray sandstone
- 7055 46. Red sandstone
- 7070 47. Argillaceous sandstone

346-3610	48. Glauconitic sandstone	347-7605	77. Slate (gray)
347-7080	49. Siltstone	6270	78. Phyllite
7164	50. Arkose	7260	79. Mica schist
7144	51. Graywacke	346-6380	80. Chlorite schist
		346-0705	81. Stilpnomelane schist
		346-8009	82. Talc-tremolite schist
		347-0304	83. Graphite schist
		0345	84. Andalusite (chiastolite) slate
		6630	85. Staurolite quartzite
		6620	86. Kyanite quartzite
		3559	87. Sillimanite-garnet gneiss
		0339	88. Cordierite anthophyllite skarn
		3500	89. Augen gneiss
		3540	90. Granitoid gneiss
		3514	91. Biotite gneiss
		2850	92. Eclogite
		346-0350	93. Actinolite schist
		346-0370	94. Cummingtonite schist
		347-7240	95. Hornblende schist
		346-0215	96. Glaucophane schist
		347-0414	97. Hornblende gneiss
		2904	98. Epidosite
		346-0285	99. Jaspilite
		346-0380	100. Grunerite-magnetite rock

code 0608
45-7050.doc

III. METAMORPHIC ROCKS

347-3905	71. Cordierite hornfels
4810	72. Marble (pink)
346-2705	73. Dolomite marble
347-4860	74. Verde antique
7920	75. Garnet-wollastonite skarn
6610	76. Quartzite