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VIRGINIA DEPARTMENT OF MINES, MINERALS AND ENERGY
DIVISION OF MINERAL RESOURCES

General Information

The Division of Mineral Resources provides geologic, energy, and mineral resource information to a wide variety of industrial, governmental, academic, and residential customers. Division personnel are engaged in basic and applied research projects in the major regions of the State, from the Coastal Plain, across the Piedmont, Blue Ridge, and Valley and Ridge to the Appalachian Plateaus in southwestern Virginia. These projects range from broad, regional mapping and stratigraphic compilations to detailed site-specific studies.

The geologic, mineral resource, and geophysical data generated by the Division are used for long-term resource planning, land-use planning, exploration and development of energy and mineral resources, and baseline earth-science data for potential natural and man-made hazards. In addition, the Division administers and monitors the State topographic map program.

Earthquake Information

In cooperation with the Virginia Tech Seismological Observatory, a new station was installed adjacent to our building. Earthquake information for Charlottesville and other nearby locations is available from their web site: http://vtso.geol.vt.edu/outreach/vtso/heli/GIF/. Additional information may be obtained from the USGS National Earthquake Information Center in Colorado: telephone (303) 273-8500.

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Geology of Virginia, CD-ROM 4 Valley and Ridge and Appalachian Plateaus, by P. S. Sethi, R. C. Whisonant, Karen K. Cecil, Phyllis L. Newbill, and Lora L. Combs, 2001. **Out of Print**

****Teacher's guide for geology of Virginia CD-ROM 4,** by Karen K.Cecil, R. C. Whisonant, and P. S. Sethi, Phyllis L. Newbill, and Lora L. Combs, 176 pages, looseleaf, 2001 **$13.00**.

Images of Virginia's geology, CD-ROM, by Phyllis L. Newbill, R. C. Whisonant, and P. S. Sethi, 2003. **$6.00t**

ROCK AND MINERAL SET

*(**Shipping charges apply, please see page ii for details)*

****Boxed set of twenty rocks and minerals from Virginia.** **$9.00**

U.S. GEOLOGICAL SURVEY REPORTS AND MAPS

*(**Shipping charges apply, please see page ii for details)*

CHARTS

OC-123. **Interpretive seismic profile along Interstate I-64 from the Valley and Ridge to the Coastal Plain in central Virginia, by L.D. Harris, W. deWitt, Jr., and K.C. Bayer, 1982. **$2.50**

BULLETINS

660-J. Possibilities for manganese ore on certain undeveloped tracts in Shenandoah Valley, Virginia, by D.F. Hewett and others, 33 p., 1918. **Out of Print**

1027-L **Oil and gas wells drilled in southwestern Virginia before 1950, by J.W. Huddle and others, 72 p., 1956. **$2.00**

1312-F. Rutile and ilmenite placer deposits Roseland district, Nelson and Amherst counties, Virginia: Economic geology, 19 p., 1970. **Out of Print**

GEOLOGIC QUADRANGLES (1:24,000 scale) **Out of Print**

GQ-1670 Vienna, 1989

MISCELLANEOUS INVESTIGATIONS

Map I -2033 **Geologic Map and Generalized Cross Sections of the Coastal Plain and Adjacent parts of the Piedmont Virginia, by R.B. Mixon, C.R. Berquist, Jr., W.L. Newell, and G.H. Johnson, 2 map sheets, color 1:250,000 geologic map and cross section, 1989 **$7.75**

GEOPHYSICAL MAPS

GRAVITY

State map of Virginia, Gravity map of the simple Bouguer anomaly (1977), by S.S. Johnson. Gravity values which are useful for interpreting rock type and structure, are indicated by 5 milligal contours. Color edition; scale 1:500,000 or 1 inch = approximately 8 miles; size 30 x 60 inches. **$6.00**

AEROMAGNETIC

*(**Shipping charges apply, please see page ii for details)*

STATE MAP (SCALE 1:1,000,000 AND 1:500,000)

****Aeromagnetic map of Virginia (1977)**, by I. Zietz and others. Magnetic values which are useful for interpreting rock type and structure, are indicated by 100 gamma interval contours. Color edition; scale 1 inch = approximately 16 miles; size 10 x 32 inches. Prepared by U.S. Geological Survey in cooperation with Division of Mineral Resources. The 1:500,000 map is not in color. **$5.00**

REGIONAL MAPS (SCALE 1:250,000)

See **Figure 1, Composite Aeromagnetic Maps for locations. These maps were made from 1:62,500 aeromagnetic maps listed under "quadrangle maps" below. **$5.00 Each**

SOUTHWEST VIRGINIA MAP (1962)

Aeromagnetic data for the area marked as H in Figure 1 are available in another form. The data packet consists of ozalid copies of : a. total magnetic intensity maps (5 sheets, scale 1:100,000); b. geophysical interpretation maps (5 sheets, scale 1:100,000); c. composite maps of items "a" and "b" (2 sheets, scale 1:250,000); and d. a 36-page booklet of data interpretation. **$41.00

QUADRANGLE MAPS (15-MINUTE, SCALE 1:62,500)

Aeromagnetic maps are available for the quadrangles listed below. Where less than full quadrangle coverage is available, compass directions indicate quadrants covered. **$5.00 Each

1. Back Bay, 2. Moyock, 3. Lake Drummond, 4. Sulfolk, 5. Holland, 6. Boykins, 7. Arringdale, 8. Emporia, 9. White Plains, 10. South Hill, 11. Boydton, 12. Clarksville, 16. Draper, 17. Martinsville NE, NW, SE, 33. Virginia Beach, 34. Cape Henry, 35. Newport News, 36. Smithfield, 37. Ivor, 38. Homeville, 39. Jarratt, 40. McKenney, 41. Lawrenceville, 42. Kenbridge, 43. Chase City, 44. Clover, 45. Halifax, 46. Riceville, 47. Chatham, 48. Callands, 49. Rocky Mount, 50. Endicott NE, NW, SE, 52. Macks Mtn. NE, NW, 53. Max Meadows NE, NW, 63. Cape Charles, 64. Elliots Creek, 65. Hampton, 66. Yorktown, 67. Surry, 68. Disputant, 69. Petersburg, 70. Dinwiddie, 71. Wellville, 72. Crewe, 73. Keysville, 74. Charlotte Court House, 75. Brookneal, 76. Gladys, 77. Altavista, 78. Moneta, 79. Boones Mill, 80. Elliston, 81. Blacksburg, 82. Radford, 83. Pulaski, 84. Bland NE, NW, SE, 92. Broadwater, 93. Eastville, 94. Westcott, 95. Mathews, 96. Williamsburg, 97. Toano, 98. Charles City, 99. Bermuda Hundred, 100. Winterpock, 101. Skinquarter, 102. Jetersville, 103. Farmville, 104. Pamplin City, 105. Appomattox, 106. Lynchburg, 107. Goode, 108. Peaks of Otter, 109. Roanoke, 110. Salem, 111. Waiteville, 112. Pearisburg, 113. Narrows, 114. Bluefield, 120. Accomac, 121. Onacock, 122. Kilmarnock, 123. Urbanna, 124. New Kent, 125. King William, 126. Richmond, 127. Midlothian, 128. Powhatan, 129. Lakeside Village, 130. Dillwyn, 131. Buckingham, 132. Shipman, 133. Amherst, 134. Buena Vista, 135. Natural Bridge, 136. Eagle Rock, 137. New Castle, 138. Ronceverte, 141. Chincoteague Island, 142. Hallwood, 143. Crisfield, 144. Ewell, 145. Heathsville SW, SE, 146. Morattico SW, SE, 147. Tappahannock SW, SE, 148. Aylett SW, SE, 150. Beaverdam SW, SE, 151. Fredericks Hall SW, SE, 152. Columbia, 153. Scottsville, 154. Covesville, 155. Lovingston, 156. Vesuvius, 157. Lexington, 158. Millboro, 159. Clifton Forge, 160. Callaghan, 172. Gordonsville, 173. Charlottesville, 174. University, 175. Waynesboro, 176. Staunton, 177. Craigsville, 178. Williamsville, 179. Warm Springs, 185. Rapidan, 186. Madison, 187. Elkton, 188. Harrisonburg, 189. Parnassus, 190. McDowell, 191. Monterey, 192. Cass, 197. Sperryville, 198. Stony Man, 199. Mt. Jackson, 200. Broadway NW, SW, 201. Fort Seybert, 203. Spruce Knob, 208. Front Royal, 209. Strasburg, 210. Edinburg, 211. Orkney Springs, 212. Petersburg, 217. Winchester, 218. Middletown, 219. Wardensville, 223. Gerrardstown, 224. Capon Bridge.

AERORADIOMETRIC

*(**Shipping charges apply, please see page ii for details)*

REGIONAL MAPS (SCALE 1:250,000)

See Figure 2, Composite Aeroradiometric Maps, for locations. These maps were made from the 1:62,500 aeroradiometric maps listed under "Quadrangle maps" below. **$5.00 Each

QUADRANGLE MAPS (15-MINUTE, SCALE 1:62,500)

Aeroradiometric maps are available for the quadrangles listed below. Where less than full quadrangle coverage is available, compass directions indicate quadrants covered. **$5.00 Each

15. Danville NE, NW, SW, 16. Draper NE, SW, SE, 42. Kenbridge, 43. Chase City, 44. Clover, 45. Halifax, 46. Riceville, 47. Chatham NE, SW, SE, 72. Crewe, 73. Keysville, 74. Charlotte Court House, 75. Brookneal, 76. Gladys NE, SW, SE, 102. Jetersville, 103. Farmville, 104. Pamplin City, 105. Appomattox, 128. Powhatan, 129. Lakeside Village, 130. Dillwyn, 131. Buckingham, 132. Shipman, 151. Fredericks Hall SW, SE, 152. Columbia, 153. Scottsville, 154. Covesville, 155. Lovingston, 171. Glenora NW, SW, SE, 172. Gordonsville, 173. Charlottesville, 174. University NE, SW, SE, 175. Waynesboro NW, SW, SE, 184. Culpeper NE, NW, SW, 185. Rapidan, 186. Madison NE, SW, SE, 187. Elkton NW, 188. Harrisonburg, 195. Catlett, 196. Warrenton NE, SW, SE, 197. Sperryville, 198. Stony Man NE, SE, 200. Broadway NW, SW, 206. Middleburg, 211. Orkney Springs SW, 215. Leesburg NE, SE.

Figure 1

COMPOSITE AEROMAGNETIC MAPS

(Scale 1:250,000)

Diazo copies

Mylar-copy prices available on request.

U.S. Geological Survey data (not available from Division of Mineral Resouces)

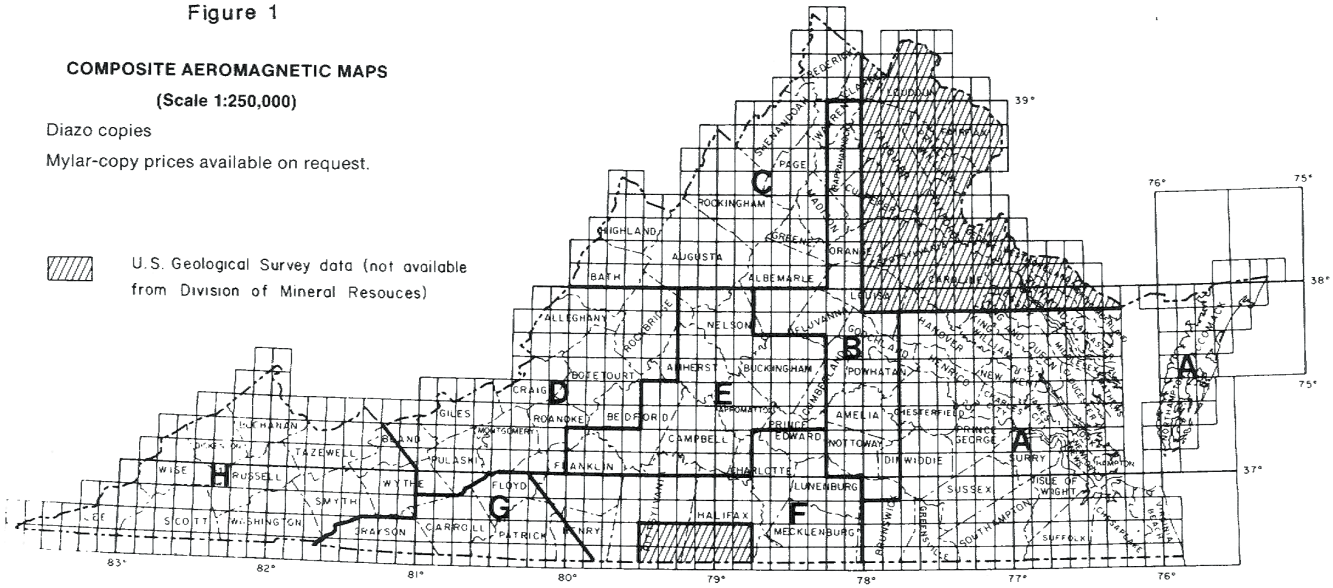
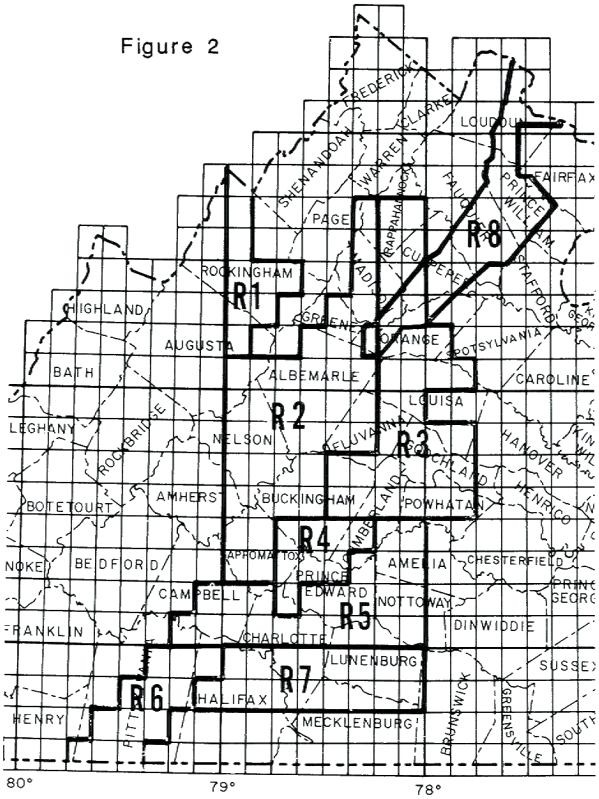


Figure 2



COMPOSITE AERORADIOMETRIC MAP

TOPOGRAPHIC MAPS AND PRODUCTS

*(**Shipping charges apply, please see page ii for details)*

BASE MAPS

****Middle Atlantic States, (1972)**. Shows political boundaries, major rivers and roads, federal recreational areas, major cities and towns of Pa., N. J., Del., Md., W.Va., Va., and Ohio, size 19 x 28 inches. **$7.00**

****State of Virginia, (1973)**. Location of county boundaries, railroads, cities, towns, and streams, scale 1:1,000,000 or 1 inch = approximately 16 miles, size 16 x 32 inches. **$7.00**

****State of Virginia, (1973)**. Location of county and state boundaries, county seats, railroads, cities, and towns, all represented by black lines; rivers, many larger streams, and water features, all represented by blue lines, scale 1:500,000 or 1 inch = approximately 8 miles, size 30 x 64 inches. **$7.00**

****State of Virginia, (1973)**. Multicolor topographic edition depicting landforms with contours at 200-foot intervals; state and federal parks, forests, and some wildlife refuges; roads and railroads; urbanized areas; county and city boundaries and names; rivers and lakes; scale 1:500,000 or 1 inch = approximately 8 miles; size 30 x 64 inches. **$7.00**

****State of Virginia, shaded relief, (1973)**. Location of county boundaries and highways with contours. **$7.00**

INTERNATIONAL SERIES

Multicolored topographic maps in this series are prepared at a scale of 1:1,000,000 or 1 inch = approximately 16 miles, size 25 x 26 inches. Contour intervals (metric) are color enhanced. Virginia and adjacent states are depicted on 2 maps; west of 78°W longitude, **Blue Ridge sheet (out of stock); east of 78°W longitude, **Chesapeake Bay sheet**. **$7.00**

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Albemarle/City of Charlottesville, Amherst, Bedford, Bland, Buchanan, Campbell/City of Lynchburg, Charles City, Chesterfield, Culpeper, Fairfax, Hanover, Henrico, Henry, James City, Lee, Loudoun, New Kent, Orange, Prince William, Roanoke, Rockbridge, Smyth, Spotsylvania/City of Fredericksburg, Stafford, Tazewell, Warren, Washington/City of Bristol, Wythe. **$7.00 Each**

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The Division stocks 7.5-minute topographic maps with woodland coverage for all of Virginia. Scale 1:24,000 or 1 inch = 2000 feet; size 27 x 22 inches. Some of the maps have been photorevised to indicate, by means of purple color, revisions of and additions to cultural data. There is no discount for a "bulk order." An index to topographic maps of Virginia is free from the Division upon request. **$6.00 Each

ORTHOPHOTOQUADS

Rectified aerial photographic depictions of standard 7.5-minute quadrangles are available for some areas. Scaled measurements, differentiation of coniferous and deciduous trees, and interpretations of land use can be determined from orthophotoquads. Scale 1:24,000 or 1 inch = 2000 feet, size 27 x 22 inches. The orthophotoquads do not show contours. A listing of orthophotoquads is available. Ozalid copies only, allow 24 hours for reproduction. **$6.00 Each

AERIAL PHOTOGRAPHS

Contact the **U.S. Geological Survey, Earth Resources Observation Systems Data Center, Sioux Falls, SD 57198; telephone: 605-594-6151**.

ATLAS

****Virginia Atlas and Gazetteer**, 63 topographic maps, scale 1:150,000; includes information on historic sites, museums, campgrounds, canoe and boat trips, parks, and scenic drives. **$20.00**

RAISED RELIEF MAPS

****Topographic raised relief maps** with boundaries, cities and towns, roads, railroads, and contours; woodland shown in green tint, scale 1:250,000. Charlottesville, Washington, Roanoke, Winston Salem, Bluefield, Greensboro, Jenkins, Johnson City, and Baltimore. **$20.00**

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****U.S. raised relief map**. Full color with physical features and political boundaries. All states including Hawaii and Alaska; major cities shown. (1" = 100 miles). 34.5" x 21.5" **$25.00**

3-D TOPOGRAPHIC MAPS

Charlottesville 30 x 60 minute quadrangle, scale: 1:100,000 **$7.00**

DIGITAL TOPOGRAPHIC DATA

Digital Raster Graphics (DRG) of 1:24,000; 1:100,000, and 1:250,000 scale topographic maps; refer to the diagram below for quadrangle designation. Viewing software included on CD is for Windows 3.x. For Windows 9x, Windows NT 4.0, Windows 2000, etc..., the USGS has a software viewer available for download from their website- http://mcmcweb.er.usgs.gov/drg. Delivery: allow 5 working days from receipt of order for shipment of a single disc; allow 15 days from receipt of order for shipment of statewide coverage.

Order by number and name; Price: $35.00 for each CD-ROM

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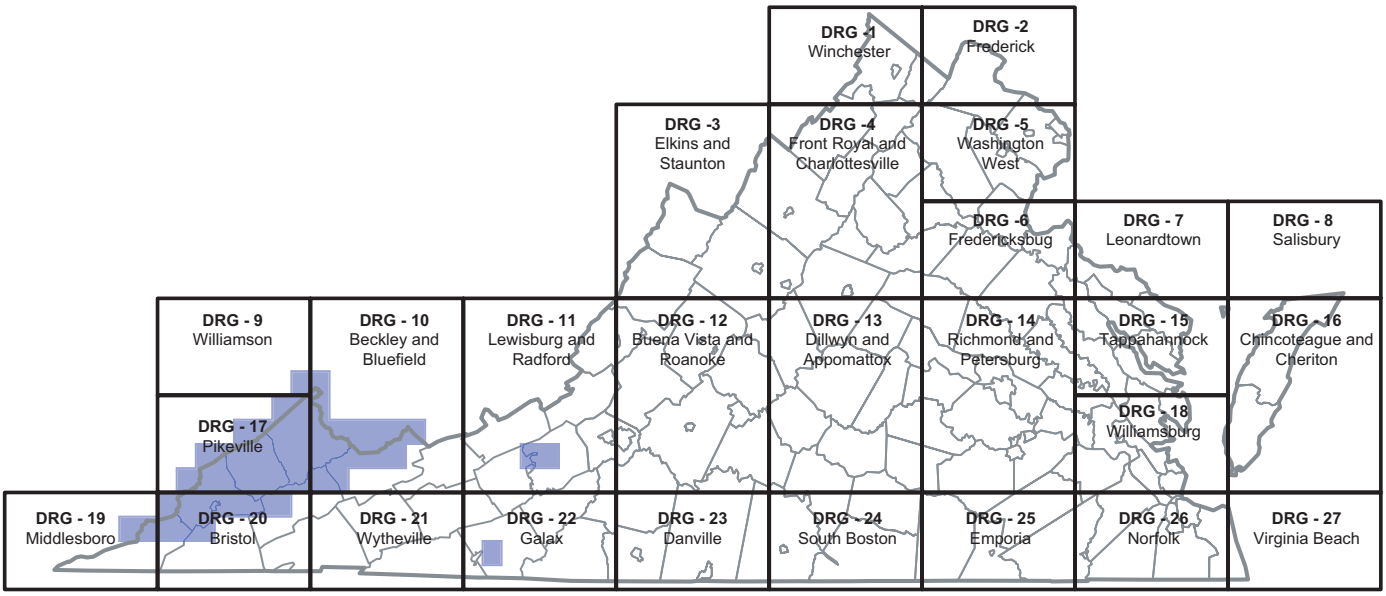
DRG-2 Frederick
DRG-3 Elkins and Staunton
DRG-4 Front Royal and Charlottesville
DRG-5 Washington West
DRG-6 Fredericksburg
DRG-7 Leonardtown
DRG-10 Beckley and Bluefield
DRG-11 Lewisburg and Radford
DRG-12 Buena Vista and Roanoke
DRG-13 Dillwyn and Appomattox
DRG-14 Richmond and Petersburg
DRG-15 Tappahannock
DRG-16 Chincoteague and Cheriton
DRG-19 Middlesboro
DRG-20 Bristol
DRG-21 Wytheville
DRG-22 Galax
DRG-23 Danville
DRG-24 South Boston
DRG-25 Emporia



DRG-8 Salisbury
DRG-9 Williamson
DRG-17 Pikeville
DRG-18 Williamsburg
DRG-26 Norfolk
DRG-27 Virginia Beach

Digital Vector data of 47 1:24,000 scale topographic maps for the southwest Virginia coalfield and three additional 1:24,000 maps (Blacksburg, Radford North, and Woodlawn) available on one CD-ROM. File format: AutoCAD release 12 DWG. For information on specific data layers please contact the Environmental Engineer Consultant at the Division of Mined Land Reclamation (Telephone 276-523-8166). **Price: $35.00**

Maps-on-demand

Maps-on-demand are hardcopy of compilation maps.

Coalbed maps have the theoretical extent of the coalbed (including outcrop patterns from the most current published geologic maps), major faults and mined out areas. Mined out areas are approximate and the known mine coverage is incomplete. Currently, the mined out areas are being updated and revised as part of an on-going project. Please note the date of the compilation map.

Geologic compilations were assembled from current published and unpublished geologic maps. These maps are unedited.

MOD-1 **Mined portion and extent of Pocahontas No. 3 coalbed in Southwest Virginia**, by D. B. Spears, J. E. Nolde, and R. S. Sites, 1997, scale 1:100,000. **$18.00**

MOD-2 **Geologic map of the coal-bearing portion of the Pikeville and Williamson 30 x 60 minute quadrangles, Virginia**; geologic compilation by A. R. Taylor, scale 1:100,000, 1998, (unedited). **$13.00**

MOD-3 **Geologic map of the coal-bearing portion of the Bluefield and Beckley 30 x 60 minute quadrangles, Virginia**; geologic compilation by A. R. Taylor, scale 1:100,000, 1998, (unedited). **$15.00**

MOD-4 **Geologic map of the coal-bearing portion of the Middlesboro 30 x 60 minute quadrangle, Virginia**; geologic compilation by A. R. Taylor, scale 1:100,000, 1998, (unedited). **$6.00**

MOD-5 **Geologic map of the coal-bearing portion of the Bristol 30 x 60 minute quadrangle, Virginia**; geologic compilation by A. R. Taylor, scale 1:100,000, 1998, (unedited). **$10.00**

MOD-6 **Mined portion and extent of the Phillips (Fireclay/Hazard #4) coalbed in Southwest Virginia**, by R. S. Sites, D. B. Spears, and R. S. Hope, scale 1:50,000, 1998. **$18.00**

MOD-7 **Mined portion and extent of the Imboden (Pond Creek/Lower Elkhorn) coalbed in Southwest Virginia**, by R. S. Sites, D. B. Spears, and R. S. Hope, scale 1:100,000, 1998. **$18.00**

MOD-8 **Natural gas field in the Virginia portion of the Appalachian basin,** by J. E. Nolde and D. B. Spears, 1999, scale 1:100,000 **Not available**

MOD-9 **Mined portion and extent of the Taggart (Darby/upper coal in Elkhorn #3 zone) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1999, scale 1:50,000 **$18.00**

MOD-10 **Mined portion and extent of the Taggart Marker (Kellioka/lower coal in Upper Elkhorn #3 zone) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1999, scale 1:50,000 **$18.00**

MOD-11 **Mined portion and extent of the Wilson (Collier/ Upper Elkhorn #2/ a coal in Harlen/Alma zone) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1999, scale 1:100,000 **$18.00**

MOD-12 **Mined portion and extent of the Kelly (upper coal in Lower Elkhorn zone (Pond Creek Rider?)) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1999, scale 1:100,000 **$18.00**

MOD-13 **Mined portion and extent of the Lower Horsepen coalbedin Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and Jack E. Nolde, 1999 (revised June 2002), scale 1:150,000. **$18.00**

MOD-14 **Mined portion and extent of the Morris (No. 11 / Hazard No. 5A) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1998, scale 1:50,000 **$18.00**

MOD-15 **Mined portion and extent of the High Splint (No. 12) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1998, scale 1:50,000 **$18.00**

MOD-16 **Mined portion and extent of the Pardee (No. 10 / upper coal of the Hamlin coal zone) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1998, scale 1:50,000 **$18.00**

MOD-17 **Mined portion and extent of the Low Splint (No. 6 / a coal in Creech & Amburgy coal zone) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and David B. Spears, 1998, scale 1:150,000 **$18.00**

MOD-18 **Mined portion and extent of the War Creek (Beckley) coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and Jack E. Nolde, 1999 (revised June 2002), scale 1:150,000 **$18.00**

MOD-19 **Mined portion and extent of the Fire Creek coalbed in Southwest Virginia**, by Roy S. Sites, Rebecca S. Hope, and Jack E. Nolde, 1999 (revised June 2002), scale 1:150,000 **$18.00**

MOD-20 **Mined portion and extent of the Addington (uppermost Clintwood Marker?) coalbed in Southwest Virginia**, by Roy S. Sites and Rebecca S. Hope, 2000, scale 1:100,000 **$18.00**

MOD-21 **Mined portion and extent of the Lyons (Eagle of Virginia) coalbed in Southwest Virginia**, by Roy S. Sites and Rebecca S. Hope, 2000, scale 1:100,000 **$18.00**

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MOD-30 Mined portion and extent of the Pocahontas No. 6 coalbed in Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2000 (revised June 2002), scale 1:150,000 **$18.00**

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MOD-38 Mined portion and extent of the Kennedy coalbed in Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2001, scale 1:100,000 **$18.00**

MOD-39 Mined portion and extent of the Raven (Jewell & Red Ash) coalbed of Southwst Virginia, by Roy S. Sites and Rebecca S. Hope, 2001, scale 1:100,000 **$18.00**

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MOD-52 Mined portion and extent of the Pocahontas No. 2 coalbed of Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2001 (revised June 2002), scale 1:150,000 **$18.00**

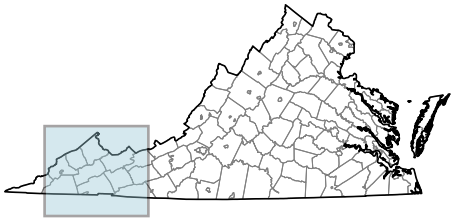
MOD-53 Mined portion and extent of the Squire Jim coalbed of Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2001 (revised June 2002), scale 1:150,000 **$18.00**

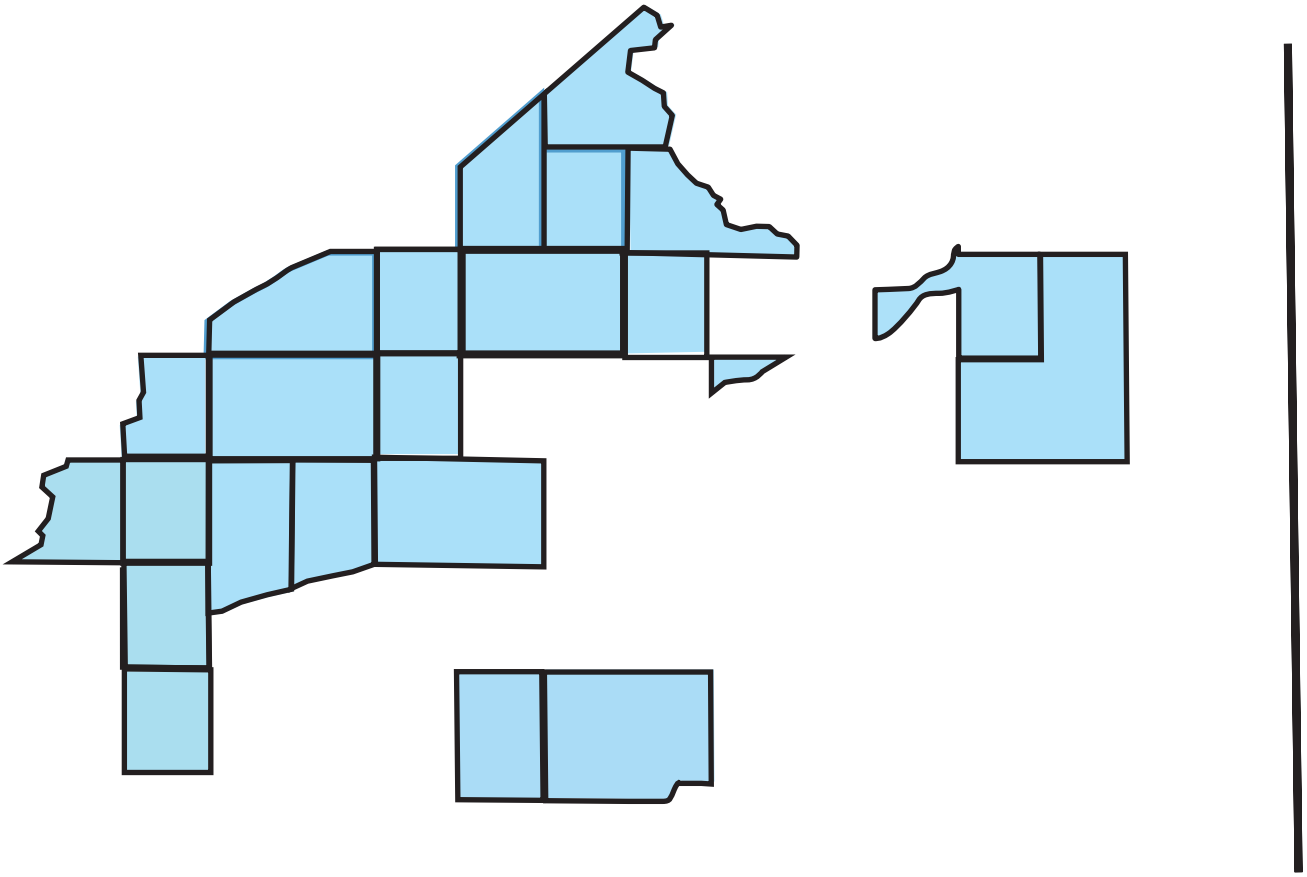
MOD-54 Mined portion and extent of the Upper St. Charles (Lower Standiford/ a lower coal in Harlan/Alma zone) coalbed of Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2001, scale 1:100,000 **$18.00**

MOD-55 Mined portion and extent of the No. 13 coalbed of Southwest Virginia, by Roy S. Sites and Rebecca S. Hope, 2001, scale 1:150,000 **$18.00**

INDEX TO GEOLOGIC MAPPING

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE) IN SOUTHWESTERN VIRGINIA





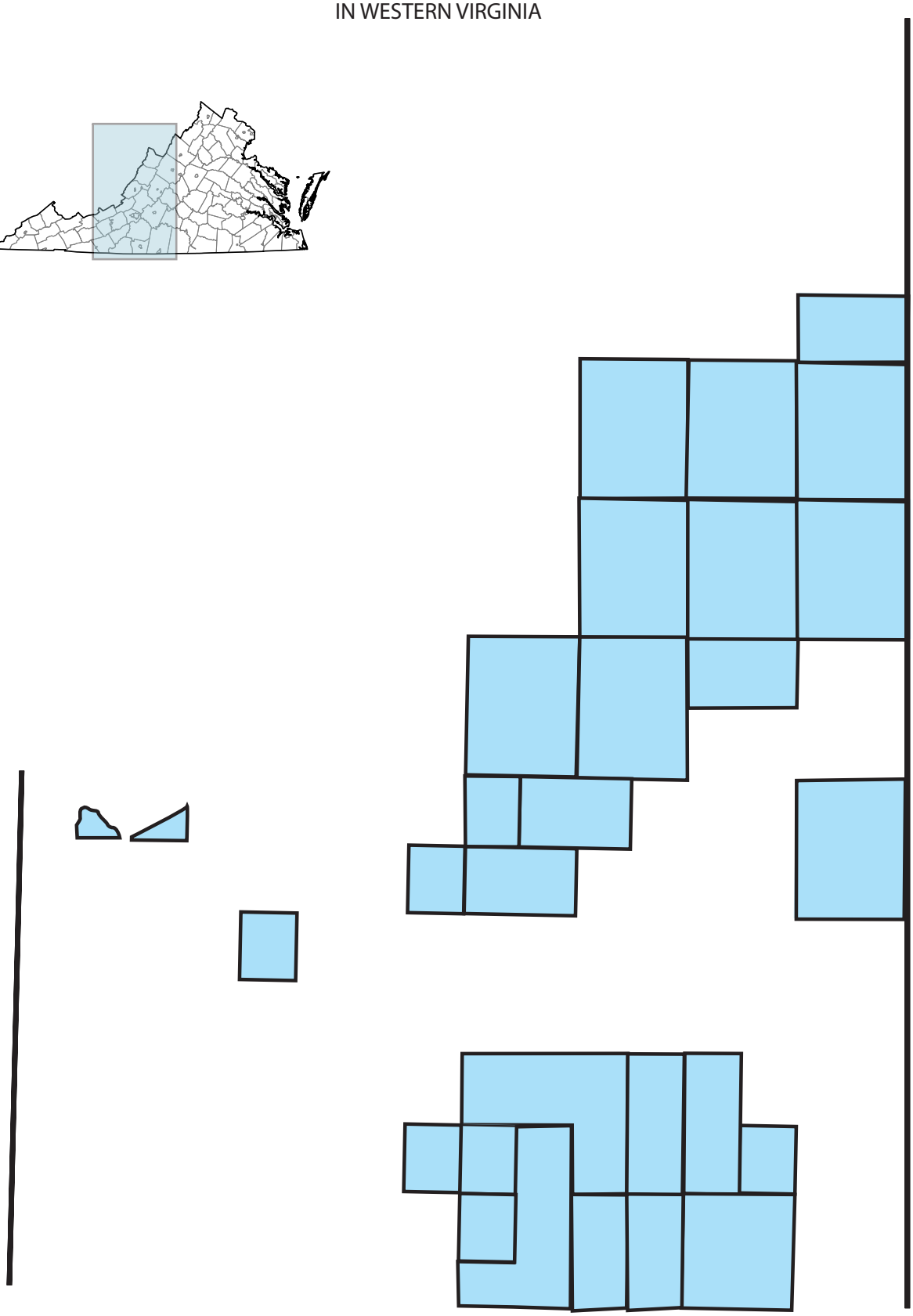
INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE) IN SOUTHWESTERN VIRGINIA

QUADRANGLE	SCALE	DATE	PUB
ABINGDON	1:24,000	1980	PUB 16
APPALACHIA	1:24,000	1988	PUB 72
BENHAM	1:24,000	1988	PUB 72
BRADSHAW	1:24,000	1989	PUB 99
BRISTOL	1:24,000	1971	RI 21
CANEY RIDGE	1:24,000	1988	PUB 84
CARBO	1:24,000	1991	PUB 106
CLINCHPORT	1:24,000	1963	RI 5
CLINTWOOD	1:24,000	1988	PUB 86
COEBURN	1:24,000	1988	PUB 81
COVE CREEK *	1:62,500	1944	BULL 60
DUNGANNON	1:24,000	1988	PUB 81
EAST STONE GAP	1:24,000	1988	PUB 79
FLAT GAP	1:24,000	1988	PUB 71
FORT BLACKMORE	1:24,000	1988	PUB 80
GARDEN MOUNTAIN *	1:62,500	1944	BULL 60
GARY	1:24,000	1991	PUB 110
GRUNDY	1:24,000	1989	PUB 97
HARMAN	1:24,000	1989	PUB 98
HAYSI	1:24,000	1989	PUB 91
HOLSTON VALLEY	1:24,000	1980	PUB 16
HURLEY	1:24,000	1992	PUB 121
HUTCHINSON ROCK *	1:62,500	1944	BULL 60
JAMBOREE	1:24,000	1989	PUB 98
JENKINS EAST	1:24,000	1988	PUB 86
KEEN MOUNTAIN	1:24,000	1989	PUB 96
MAJESTIC	1:24,000	1992	PUB 121
NORA	1:24,000	1989	PUB 92
NORTON	1:24,000	1986	PUB 65
PANTHER	1:24,000	1992	PUB 121
PATTERSON	1:24,000	1989	PUB 121
POUND	1:24,000	1988	PUB 84

QUADRANGLE	SCALE	DATE	PUB
PRATER	1:24,000	1984	PUB 52
RICHLANDS	1:24,000	1991	PUB 109
SAINT PAUL	1:24,000	1991	PUB 106
SHADY VALLEY	1:24,000	1980	PUB 16
TAZEWELL NORTH	1:24,000	1991	PUB 110
TIPTOP	1:24,000	1991	PUB 110
TIPTOP *	1:62,500	1944	BULL 60
VANSANT	1:24,000	1984	PUB 52
WALLACE	1:24,000	1971	RI 25
WAR	1:24,000	1989	PUB 99
WHARNCLIFFE	1:24,000	1992	PUB 121
WISE	1:24,000	1988	PUB 80
WYNDALE	1:24,000	1980	PUB 16

* Indicates Out of Print

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE)
IN WESTERN VIRGINIA



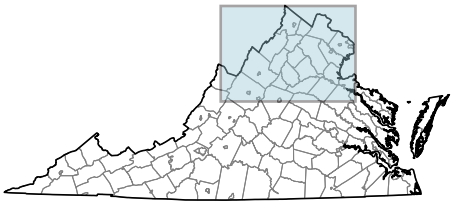
INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE) IN WESTERN VIRGINIA

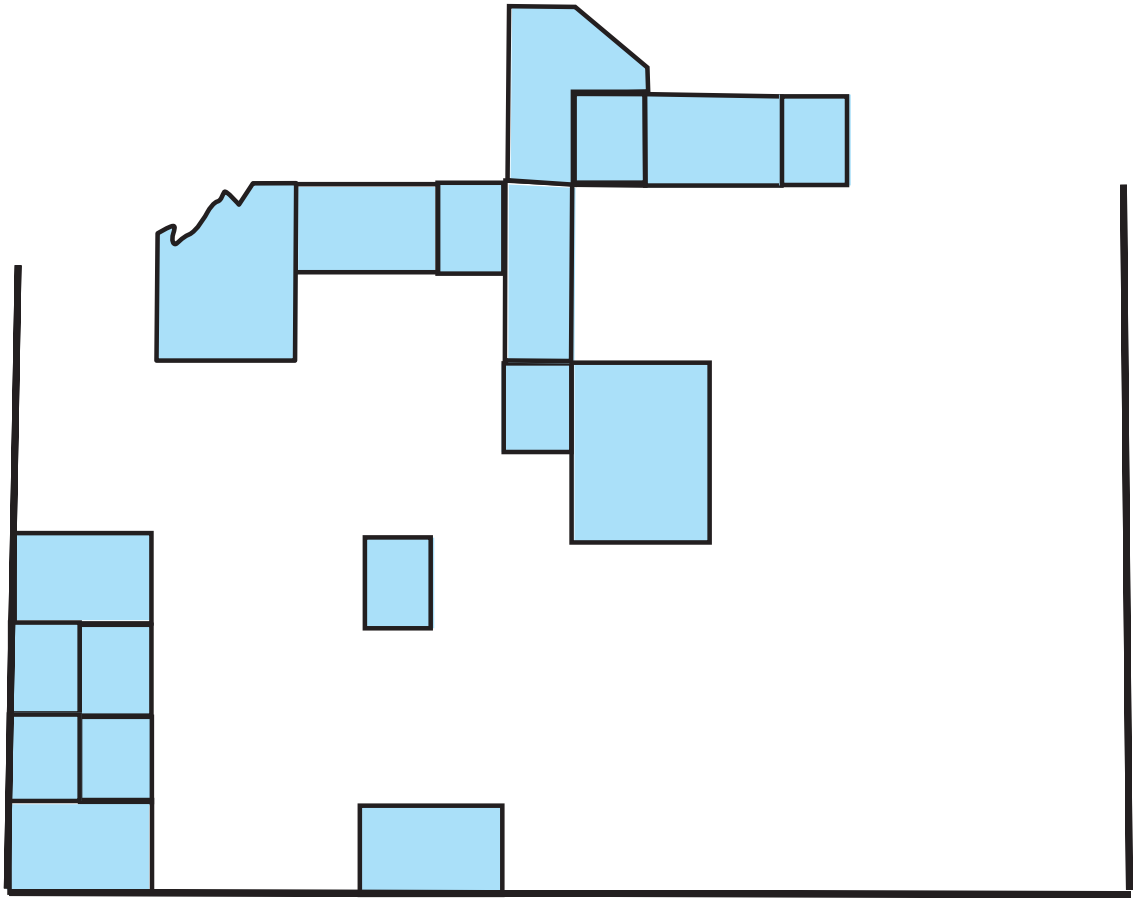
QUADRANGLE	SCALE	DATE	PUB
ARNOLD VALLEY	1:24,000	1968	RI 13
AUGUSTA SPRINGS	1:24,000	1970	RI 21
AXTON	1:24,000	1980	PUB 22
BASSETT	1:24,000	1971	RI 26
BATH ALUM	1:62,500	1962	RI 2
BIG LEVELS	1:62,500	1966	RI 7
BLACKSBURG*	1:24,000	1979	PUB 14
BLAIRS	1:24,000	1977	PUB 2
BROSVILLE	1:24,000	1980	PUB 21
BROWNSBURG	1:62,500	1960	RI 1
BUCHANAN	1:24,000	1968	RI 13
BUENA VISTA	1:24,000	2000	PUB 154
BURNSVILLE	1:62,500	1962	RI 2
CALLANDS	1:24,000	1988	PUB 77
CHATHAM	1:24,000	1984	PUB 49
CHURCHVILLE	1:24,000	1967	RI 12
CITY FARM	1:62,500	1958	BUL 74
COLLIERSTOWN	1:62,500	1965	RI 8
CORNWALL	1:62,500	1960	RI 1
CRAIGSVILLE	1:24,000	1970	RI 21
DALEVILLE	1:24,000	1976	RI 42
DANVILLE	1:24,000	1977	PUB 2
DEERFIELD	1:24,000	1970	RI 21
EAGLE ROCK	1:24,000	1970	RI 24
ELLIOTT KNOB	1:24,000	1970	RI 21
GLADEHILL	1:24,000	1989	PUB 90
GLASGOW	1:24,000	2000	PUB 154
GOSHEN	1:62,500	1960	RI 1
GREEN VALLEY	1:62,500	1962	RI 2
GREENVILLE	1:24,000	1967	RI 12
KELLY	1:62,500	1958	BUL 74
LEXINGTON	1:62,500	1960	RI 1
LINDSIDE	1:24,000	2001	PUB 160
LONGDALE FURNACE	1:62,500	1965	RI 8
LYNCHBURG	1:62,500	1958	BUL 74
MARTINSVILLE EAST	1:24,000	1973	RI 33
MARTINSVILLE WEST	1:24,000	1968	RI 16
MASSIES MILL	1:62,500	1966	RI 7

QUADRANGLE	SCALE	DATE	PUB
MILLBORO	1:62,500	1965	RI 8
MONTEBELLO	1:62,500	1966	RI 7
MONTVALE	1:24,000	1981	PUB 35
MOUNT HERMAN	1:24,000	1977	PUB 2
MOUNTAIN VALLEY	1:24,000	1989	PUB 90
NATURAL BRIDGE	1:24,000	1968	RI 13
NIMROD HALL	1:62,500	1965	RI 8
NORTHEAST EDEN	1:24,000	1980	PUB 22
NORTHWEST EDEN	1:24,000	1973	RI 33
ORISKANY	1:24,000	1970	RI 24
PARNASSUS	1:24,000	1969	RI 19
PENHOOK	1:24,000	1989	PUB 90
PETERSTOWN	1:24,000	2001	PUB 156
PHILPOTT RESERVOIR	1:24,000	1970	RI 22
PITTSVILLE	1:24,000	1984	PUB 49
PRICE	1:24,000	1973	RI 33
RINGGOLD	1:24,000	1977	PUB 2
ROANOKE	1:24,000	1981	PUB 34
ROCKY MOUNT	1:24,000	1989	PUB 90
RUSTBURG	1:62,500	1958	BUL 74
SALEM	1:24,000	1974	RI 37
SALISBURY	1:24,000	1970	RI 24
SANDY LEVEL	1:24,000	1988	PUB 77
SNOW CREEK	1:24,000	1973	RI 33
SPRING GARDEN	1:24,000	1982	PUB 48
STAUNTON	1:24,000	1967	RI 12
STEWARTSVILLE	1:24,000	1981	PUB 34
STOKESVILLE	1:24,000	1969	RI 19
STROM	1:24,000	1970	RI 24
STUARTS DRAFT	1:24,000	1967	RI 12
SUGARLOAF MOUNTAIN	1:24,000	1968	RI 13
VESUVIUS	1:62,500	1966	RI 7
VILLAMONT	1:24,000	1981	PUB 35
WHITMELL	1:24,000	1980	PUB 21
WILLIAMSVILLE	1:62,500	1962	RI 2

* Indicates Out of Print

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE)
IN NORTHERN VIRGINIA



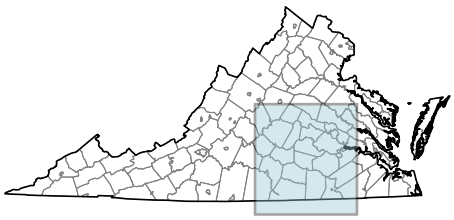


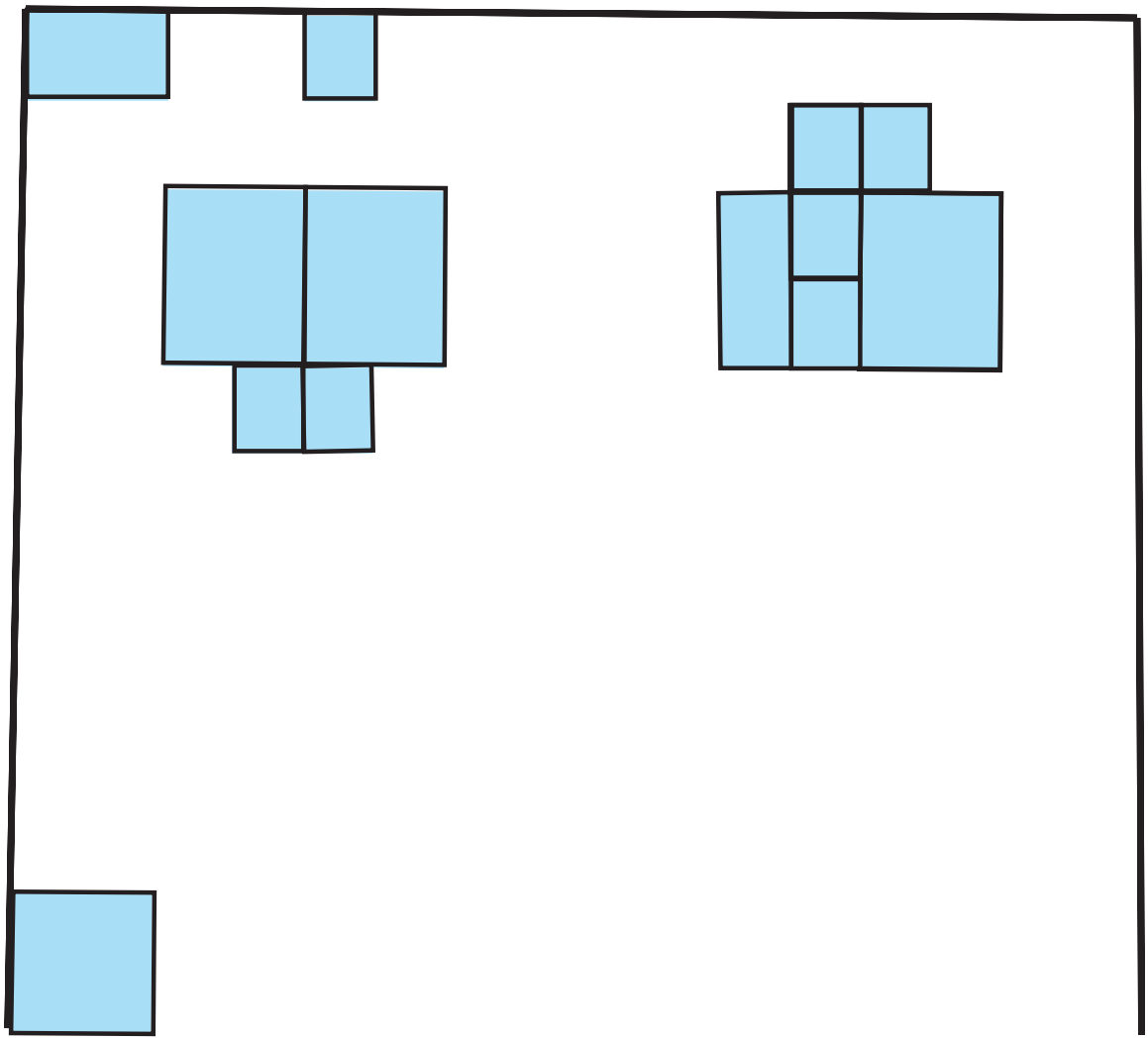
INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,00-1:62,500 SCALE) IN NORTHERN VIRGINIA

QUADRANGLE	SCALE	DATE	PUB
ASHBY GAP	1:24,000	1974	RI 36
BERRYVILLE	1:24,000	1973	RI 34
BLUEMONT	1:31,680	1968	RI 14
BOSWELLS TAVERN	1:24,000	1991	PUB 107
BOYCE	1:24,000	1973	RI 34
BRANDY STATION *	1:62,500	1939	BUL 54
BRIDGEWATER	1:24,000	1986	PUB 60
CONICVILLE	1:24,000	1974	RI 35
CRIMORA	1:24,000	1978	PUB 13
EDINBURG	1:24,000	1974	RI 35
FLINT HILL	1:24,000	1976	RI 44
FORT DEFIANCE	1:24,000	1978	PUB 12
FRONT ROYAL	1:24,000	1975	RI 40
GROTTOES	1:24,000	1978	PUB 10
HARRISONBURG	1:24,000	1986	PUB 60
JEFFERSONTON *	1:62,500	1939	BUL 54
KESWICK	1:24,000	1991	PUB 107
LEESBURG	1:24,000	1966	RI 11
LINCOLN	1:31,680	1968	RI 14
LINDEN	1:24,000	1976	RI 44
MADISON	1:24,000	2003	PUB 157
MASSIES CORNER	1:24,000	1980	PUB 17
MOUNT SIDNEY	1:24,000	1978	PUB 11
REMINGTON *	1:62,500	1939	BUL 54
STEPHENSON	1:24,000	1973	RI 34
STRASBURG	1:24,000	1976	RI 45
TOMS BROOK	1:24,000	1976	RI 45
WARRENTON *	1:62,500	1939	BUL 54
WAYNESBORO EAST	1:24,000	1977	PUB 3
WAYNESBORO WEST	1:24,000	1977	PUB 3
WOLF GAP	1:24,000	1974	RI 35
WOODSTOCK	1:24,000	1974	RI 35

* Indicates Out of Print

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE)
IN SOUTHERN VIRGINIA



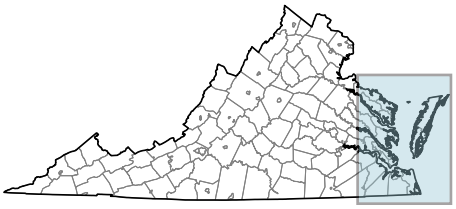


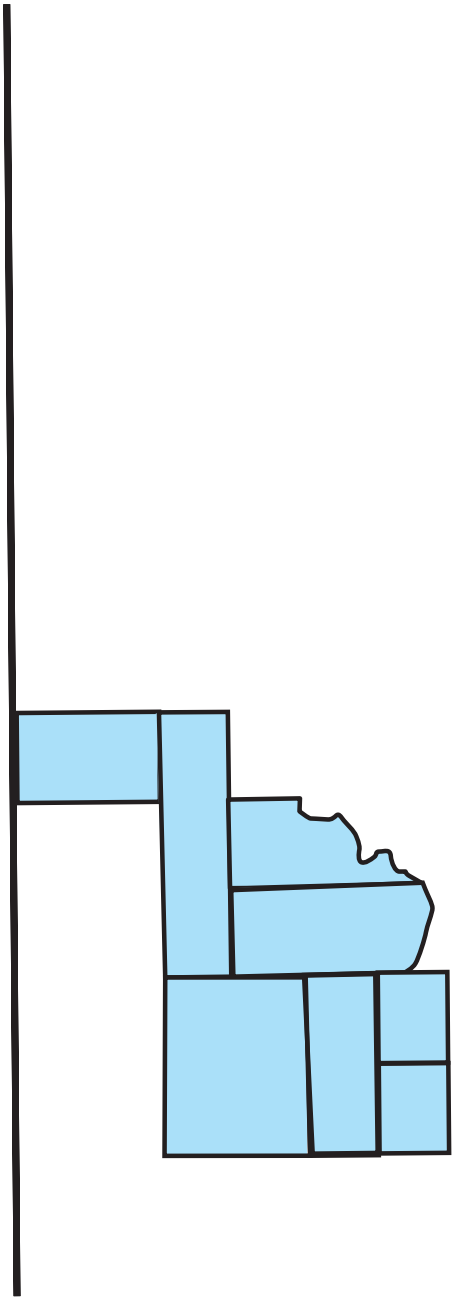
INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24,000-1:62,500 SCALE) IN SOUTHERN VIRGINIA

QUADRANGLE	SCALE	DATE	PUB
ANDERSONVILLE	1:24,000	1980	PUB 26
ARVONIA	1:62,500	1969	RI 10
ASHLAND	1:24,000	1986	PUB 64
BON AIR	1:24,000	1980	PUB 18
BUCKINGHAM	1:62,500	1968	RI 15
CLUSTER SPRINGS	1:24,000	1980	PUB 5
DIANA MILLS	1:62,500	1969	RI 10
DILLWYN	1:62,500	1969	RI 10
GLEN ALLEN	1:24,000	1981	PUB 31
GLENMORE	1:62,500	1968	RI 15
GOLD HILL	1:62,500	1969	RI 10
GREENFIELD	1:24,000	1977	PUB 4
HANOVER ACADEMY	1:24,000	1981	PUB 30
HOWARDSVILLE	1:62,500	1968	RI 15
HYLAS	1:24,000	1970	RI 23
MIDLOTHIAN	1:24,000	1970	RI 23
OMEGA	1:24,000	1980	PUB 5
RICHMOND	1:24,000	1974	RI 38
SAINT JOY	1:62,500	1968	RI 15
SEVEN PINES	1:24,000	1974	RI 38
SHERANDO	1:24,000	1977	PUB 4
SIMEON	1:24,000	1994	PUB 134
SOUTH BOSTON	1:24,000	1980	PUB 5
STUDLEY	1:24,000	1974	RI 38
VIRGILINA	1:24,000	1980	PUB5
WILLIS MOUNTAIN	1:24,000	1980	PUB 25
YELLOW TAVERN	1:24,000	1974	RI 38

* Indicates Out of Print

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24;000-1:62,500 SCALE)
IN EASTERN VIRGINIA





INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:24;000-1:62,500 SCALE) IN EASTERN VIRGINIA

QUADRANGLE	SCALE	DATE	PUB
BACONS CASTLE	1:24,000	1969	RI 18
BENNS CHURCH	1:24,000	1968	RI 17
BOWERS HILL	1:24,000	1971	RI 28
BRANDON	1:24,000	1989	PUB 87
CHUCKATUCK	1:24,000	1968	RI 17
HAMPTON	1:24,000	1976	RI 41
HOG ISLAND	1:24,000	1969	RI 18
MULBERRY ISLAND	1:24,000	1976	RI 41
NEWPORT NEWS NORTH	1:24,000	1976	RI 41
NEWPORT NEWS SOUTH	1:24,000	1971	RI 28
NORFOLK NORTH	1:24,000	1978	PUB 8
NORFOLK SOUTH	1:24,000	1978	PUB 9
NORGE	1:24,000	1989	PUB 87
POQUOSON EAST	1:24,000	1972	RI 30
POQUOSON WEST	1:24,000	1972	RI 30
SMITHFIELD	1:24,000	1968	RI 17
WILLIAMSBURG	1:24,000	1969	RI 18
WINDSOR	1:24,000	1968	RI 17
YORKTOWN	1:24,000	1972	RI 18

* Indicates Out of Print

LISTING OF QUADRANGLE GEOLOGIC MAPS IN VIRGINIA

1:24,000-SCALE MAPS

QUADRANGLE	DATE	PUBLICATION
ABINGDON	1980	PUB 16
ANDERSONVILLE	1980	PUB 26
APPALACHIA	1988	PUB 72
ARNOLD VALLEY	1968	RI 13
ASHBY GAP	1974	RI 36
ASHLAND	1986	PUB 64
AUGUSTA SPRINGS	1970	RI 21
AXTON	1980	PUB 22
BACONS CASTLE	1969	RI 18
BASSETT	1971	RI 26
BENHAM	1988	PUB 72
BENNS CHURCH	1968	RI 17
BERRYVILLE	1973	RI 34
BLACKSBURG	1979	PUB 14
BLAIRS	1977	PUB 2
BON AIR	1980	PUB 18
BOWERS HILL	1971	RI 28
BOSWELL TAVERN	1991	PUB 107
BOYCE	1973	RI 34
BRADSHAW	1989	PUB 99
BRANDON	1989	PUB 87
BRIDGEWATER	1986	PUB 60
BRISTOL	1971	RI 21
BROSVILLE	1980	PUB 21
BUCHANAN	1968	RI 13
BUENA VISTA	2000	PUB 154
CALLANDS	1988	PUB 77
CANEY RIDGE	1988	PUB 84
CARBO	1991	PUB 106
CHATHAM	1984	PUB 49
CHUCKCTUCK	1968	RI 17
CHURCHVILLE	1967	RI 12
CLINCHPORT	1963	RI 5
CLINTWOOD	1988	PUB 86
CLUSTER SPRINGS	1980	PUB 5
COEBURN	1988	PUB 81
CONICVILLE	1974	RI 35
CRAIGSVILLE	1970	RI 21
CRIMORA	1978	PUB 13
DALEVILLE	1976	RI 42
DANVILLE	1977	PUB 2
DEERFIELD	1970	RI 21
DUNGANNON	1988	PUB 81
EAGLE ROCK	1970	RI 24
EAST STONE GAP	1988	PUB 79
EDINBURG	1974	RI 35
ELLIOTT KNOB	1970	RI 21
FLAT GAP	1988	PUB 71
FLINT HILL	1976	RI 44
FORT BLACKMORE	1988	PUB 80
FORT DEFIANCE	1978	PUB 12
FRONT ROYAL	1975	RI 40
GARY	1991	PUB 110
GLADEHILL	1989	PUB 90
GLASGOW	2000	PUB 154
GLEN ALLEN	1981	PUB 31
GREENFIELD	1977	PUB 4
GREENVILLE	1967	RI 12
GROTTOES	1978	PUB 10
GRUNDY	1989	PUB 97
HAMPTON	1976	RI 41
HANOVER ACADEMY	1981	PUB 30
HARMAN	1989	PUB 98
HARRISONBURG	1986	PUB 60
HAYSI	1989	PUB 91
HOG ISLAND	1969	RI 18
HOLSTON VALLEY	1980	PUB 16
HURLEY	1992	PUB121
HYLAS	1970	RI 23
JAMBOREE	1989	PUB 98
JENKINS EAST	1988	PUB 86
KEEN MOUNTAIN	1989	PUB 96
KESWICK	1991	PUB 107
LEESBURG	1966	RI 11
LINDEN	1976	RI 44
LINDSIDE	2001	PUB 160
MADISON	2003	PUB 157
MARTINSVILLE EAST	1973	RI 33
MARTINSVILLE WEST	1968	RI 16
MASSIES CORNER	1980	PUB 17
MIDLOTHIAN	1970	RI23
MONTVALE	1981	PUB 35
MOUNT HERMAN	1977	PUB 2
MOUNT SIDNEY	1978	PUB 11
MAJESTIC	1992	PUB 121
MOUNTAIN VALLEY	1989	PUB 90
MULBERRY ISLAND	1976	RI 41
NATURAL BRIDGE	1968	RI 13
NEWPORT NEWS NORTH	1976	RI 41
NEWPORT NEWS SOUTH	1971	RI 28
NORA	1989	PUB 92
NORFOLK NORTH	1978	PUB 8
NORFOLK SOUTH	1978	PUB 9
NORGE	1989	PUB 87
NORTHEAST EDEN	1980	PUB 22
NORTHWEST EDEN	1973	RI 33
NORTON	1986	PUB 65
OMEGA	1980	PUB 5
ORISKANY	1970	RI 24
PANTHER	1992	PUB 121
PARNASSUS	1969	RI 19
PATTERSON	1989	PUB 99
PENHOOK	1989	PUB 90
PETERSTOWN	2001	PUB 156
PHILPOTT RESERVOIR	1970	RI 22
PITTSVILLE	1984	PUB 49
POQUOSON EAST	1972	RI 30
POQUOSON WEST	1972	RI 30
POUND	1988	PUB 84
PRATER	1984	PUB 52
PRICE	1973	RI 33
RICHLANDS	1991	PUB 109
RICHMOND	1974	RI 38
RINGGOLD	1977	PUB 2
ROANOKE	1981	PUB 34
ROCKY MOUNT	1989	PUB 90
SAINT PAUL	1991	PUB 106
SALEM	1974	RI 37
SALISBURY	1970	RI 24
SANDY LEVEL	1988	PUB 77
SEVEN PINES	1974	RI 38
SHADY VALLEY	1980	PUB 16
SHERANDO	1977	PUB 4
SIMEON	1994	PUB 134
SMITHFIELD	1968	RI 17
SNOW CREEK	1973	RI 33
SOUTH BOSTON	1980	PUB 5
SPRING GARDEN	1982	PUB 48
STAUNTON	1967	RI 12
STEPHENSON	1973	RI 34
STEWARTSVILLE	1981	PUB 34
STOKESVILLE	1969	RI 19
STRASBURG	1976	RI 45
STRORM	1970	RI 24
STUARTS DRAFT	1967	RI 12
STUDLEY	1974	RI 38
SUGARLOAF MOUNTAIN	1968	RI 13
TAZEWELL NORTH	1991	PUB 110
TIPTOP	1991	PUB 110
TOMS BROOK	1976	RI 45
VANSANT	1984	PUB 52
VILLAMONT	1981	PUB 35
VIRGILINA	1980	PUB 5
WALLACE	1971	RI 25
WAR	1989	PUB 99
WAYNESBORO EAST	1977	PUB 3
WAYNESBORO WEST	1977	PUB 3
WHARNCLIFFE	1992	PUB 121
WHITMELL	1980	PUB 21
WILLIAMSBURG	1969	RI 18
WILLIS MOUNTAIN	1980	PUB 25
WINDSOR	1968	RI 17
WISE	1988	PUB 80
WOLF GAP	1974	RI 35
WOODSTOCK	1974	RI 35
WYNDALE	1980	PUB 16
YELLOW TAVERN	1974	RI 38
YORKTOWN	1972	RI 30

1:62,500-SCALE MAPS

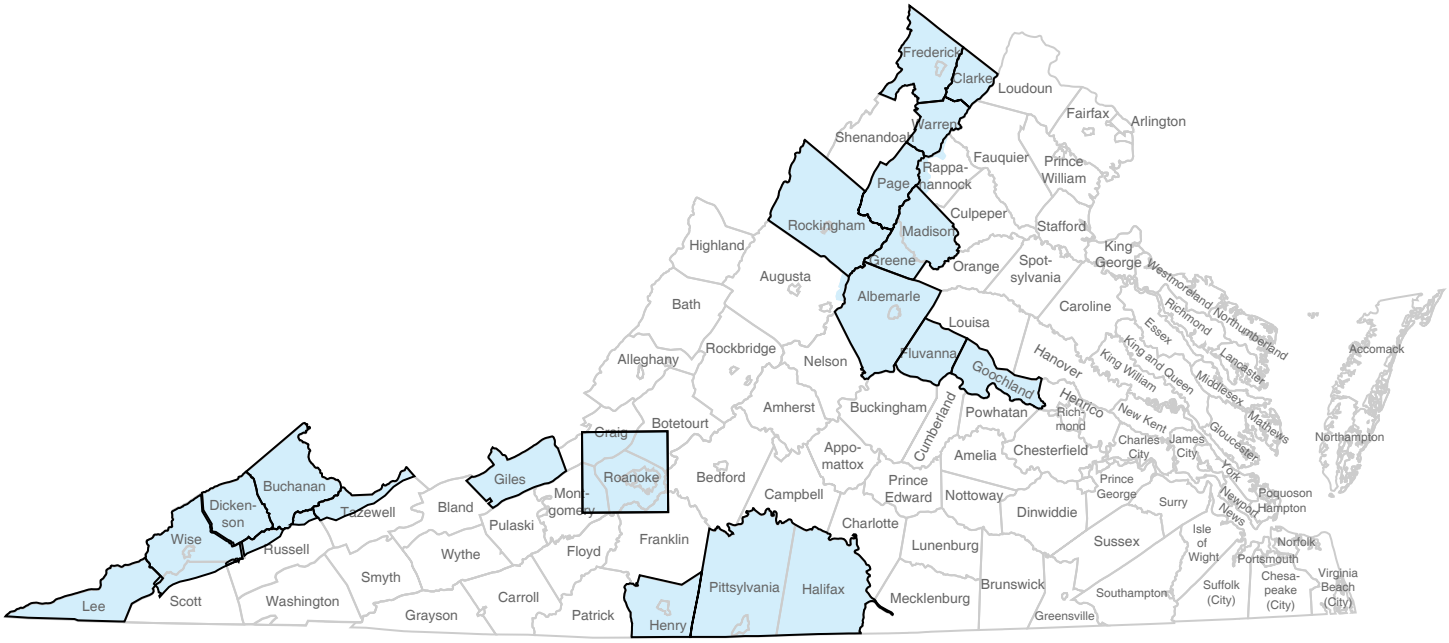
QUADRANGLE	DATE	PUBLICATION
BUCKINGHAM	1968	RI 15
BURKES GARDEN	1944	BUL 60*
DILLWYN	1969	RI 10
LEXINGTON	1960	RI 1
LYNCHBURG	1958	BUL 74
MILLBORO	1965	RI 8
VESUVIUS	1966	RI 7
WARRENTON	1939	BULL 54*
WILLIAMSVILLE	1962	RI 2

1:31,680-SCALE MAPS

AREA	DATE	PUBLICATION
BLUEMONT	1968	RI 14
LINCOLN	1968	RI 14

* Indicates Out of Printt

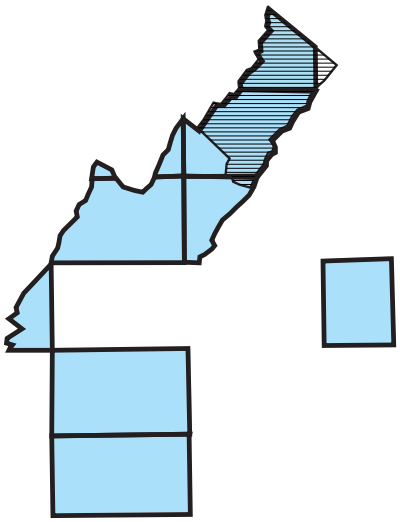
INDEX TO COUNTY-BASED GEOLOGIC MAPPING IN VIRGINIA



COUNTY/AREA	SCALE	DATE	PUBLICATION	AGENCY
ALBEMARLE	1:62,500	1962	BUL 77 *	VDMR
BUCHANAN	1:62,500	1918	BUL 18 *	VDMR
CLARKE	1:50,000	1990	PUB 102	VDMR
DICKENSON	1:62,500	1921	BUL 21	VDMR
FLUVANNA	1:62,500	1964	BUL 79	VDMR
FREDERICK	1:62,500	1966	BUL 80	VDMR
GILES	1:50,000	1986	PUB 69	VDMR
GOOCHLAND	app 1:125,000	1937	BUL 48 *	VDMR
GREENE	1:62,500	1963	BUL 78	VDMR
HALIFAX	app 1:125,000	1960	BUL 75	VDMR
HENRY	1:50,000	1996	PUB 137	VDMR
LEE	1:50,000	1992	PUB 113	VDMR
LEE	1:24000	1954	Bul 71	VDMR
MADISON	1:62,500	1963	BUL 78	VDMR
PAGE	1:62,500	1967	BUL 81	VDMR
PITTSYLVANIA	app 1:125,000	1960	BUL 75	VDMR
ROANOKE area	1:125,000	1932	BUL 34 *	VDMR
ROCKINGHAM	1:62,500	1960	BUL 76 *	VDMR
RUSSELL (portion of)	1:62,500	1922	BUL 22	VDMR
SCOTT (portion of)	1:62,500	1923	BUL 24 *	VDMR
TAZEWELL (portion of)	1:62,500	1919	BUL 19	VDMR
WARREN	1:50,000	1995	PUB 138	VDMR
WISE	1:62,500	1923	BUL 24 *	VDMR

* Indicates Out of Print

INDEX TO GEOLOGIC QUADRANGLE MAPPING (1:100,000 SCALE) IN VIRGINIA



QUADRANGLE	DATE	PUBLICATION
CHARLOTTESVILLE (portion of	2001	PUB 159
DANVILLE	2002	PUB 166
ELKINS (portion of)	2000	PUB 155
FRONT ROYAL (portion of)	2001	PUB 162
LEWISBURG (portion of)	2002	PUB 169
RICHMOND (western portion)	2002	PUB 165
ROANOKE	1997	PUB 148
STAUNTON (portion of)	2001	PUB 163
WINCHESTER (portion of)	2001	PUB 161
LORD FAIRFAX PLANNING DISRICT (lined)	1996	PUB 143

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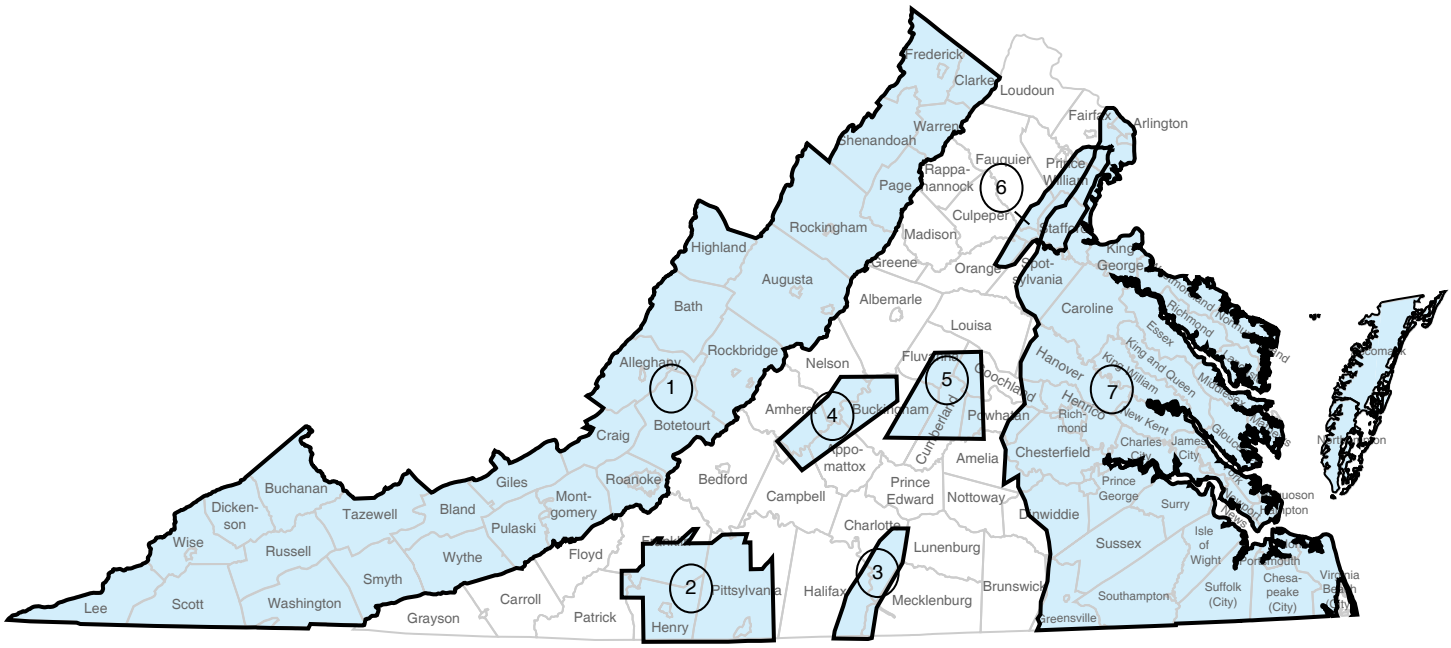

Number	Area	Scale	Date	Publication
1	APPALACHIAN VALLEY	1:250,000	1933	BUL 42
2	SW VIRGINIA PIEDMONT	1:250,000	1985	PUB 59
3	VIRGILINA DISTRICT	~1:125,000	1916	BUL 14 *
4	JAMES RIVER IRON BELT	1:125,000	1935	BUL 39 *
5	SOUTHERN GOLD-PYRITE BELT	~1:137,115	1913	BUL 7 *
6	NORTHERN GOLD-PYRITE BELT		1927	BUL 30 *
7	COASTAL PLAIN	1:250,000	1989	I-2033 (USGS Miscellaneous Investigation Series)
				* Indicates Out of Print

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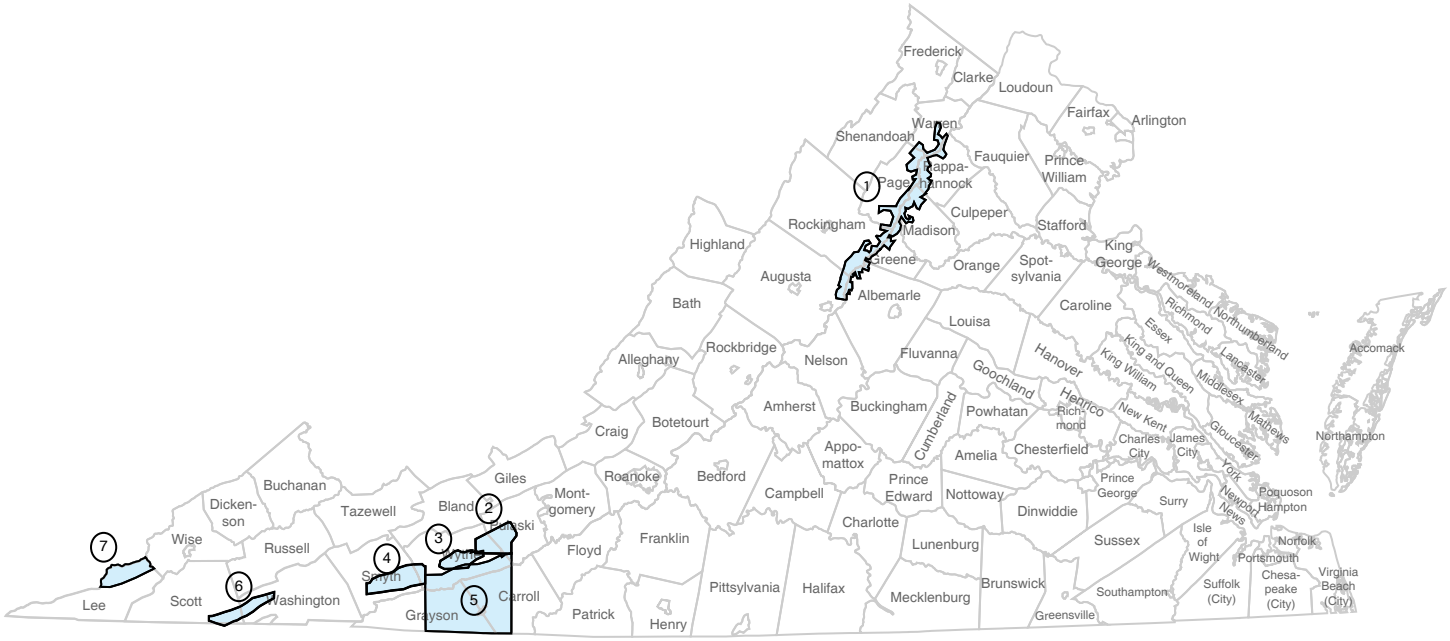
(continued)



Number	Area	Scale	Date	Publication
1	SHENANDOAH NATIONAL PARK	1:62,500	1976	BUL 86
2	DRAPER MOUNTAIN	~1:50,000	1939	BUL 55*
3	LICK MOUNTAIN DISTRICT	1:31,250	1943	BUL 59
4	GLADE MOUNTAIN DISTRICT	1:31,860	1944	BUL 61*
5	GOSSAN LEAD DISTRICT	~1:125,000	1944	BUL 72
6	EARLY GROVE GAS FIELD	1:24,000	1941	BUL 56*
7	LEE (portion of)	1:62,500	1925	BUL 26

* Indicates Out of Print

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B ---------- **Bulletin**
G ---------- **Guidebook**
GQ ---------- **Geologic Quadrangle (USGS)**
I ---------- **Miscellaneous Investigations Series (USGS)**
IC ---------- **Information Circular**
OFR ---------- **Open-File Report**
MRC ---------- **Mineral Resources Circular**
MRR ---------- **Mineral Resources Report**
P ---------- **Publication**
RI ---------- **Report of Investigations**

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