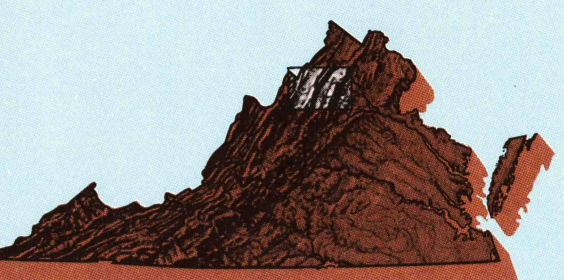


Front Royal

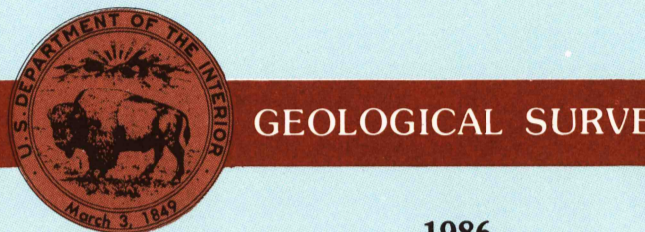
VIRGINIA—WEST VIRGINIA

1:100 000-scale metric
topographic map



30 X 60 MINUTE QUADRANGLE
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1965-1979. Planimetry revised from aerial photographs taken 1984 and other source data. Revised information not field checked. Map edited 1986.
 Projection and 10 000-meter grid, zone 17 Universal Transverse Mercator
 25 000-foot grid ticks based on Virginia coordinate system, north zone and West Virginia coordinate system north zone. 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 8 meters south and 23 meters west. There may be private landholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 20 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS	
Meters	Feet	1983		1	2
1	3.2808	10° 00' 00"		4	5
2	6.5617	10° 00' 00"		4	5
3	9.8425	10° 00' 00"		4	5
4	13.1234	10° 00' 00"		4	5
5	16.4043	10° 00' 00"		4	5
6	19.6852	10° 00' 00"		4	5
7	22.9660	10° 00' 00"		4	5
8	26.2469	10° 00' 00"		4	5
9	29.5278	10° 00' 00"		4	5
10	32.8084	10° 00' 00"		4	5

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (GM) and 1983 magnetic declination (MD) at center of map
 Diagram is approximate

1	2	3
1 Kingswood	2 Winchester	3 Frederick
4 Elkton	5 Washington West	6 Staunton
7 Charlottesville	8 Fredericksburg	

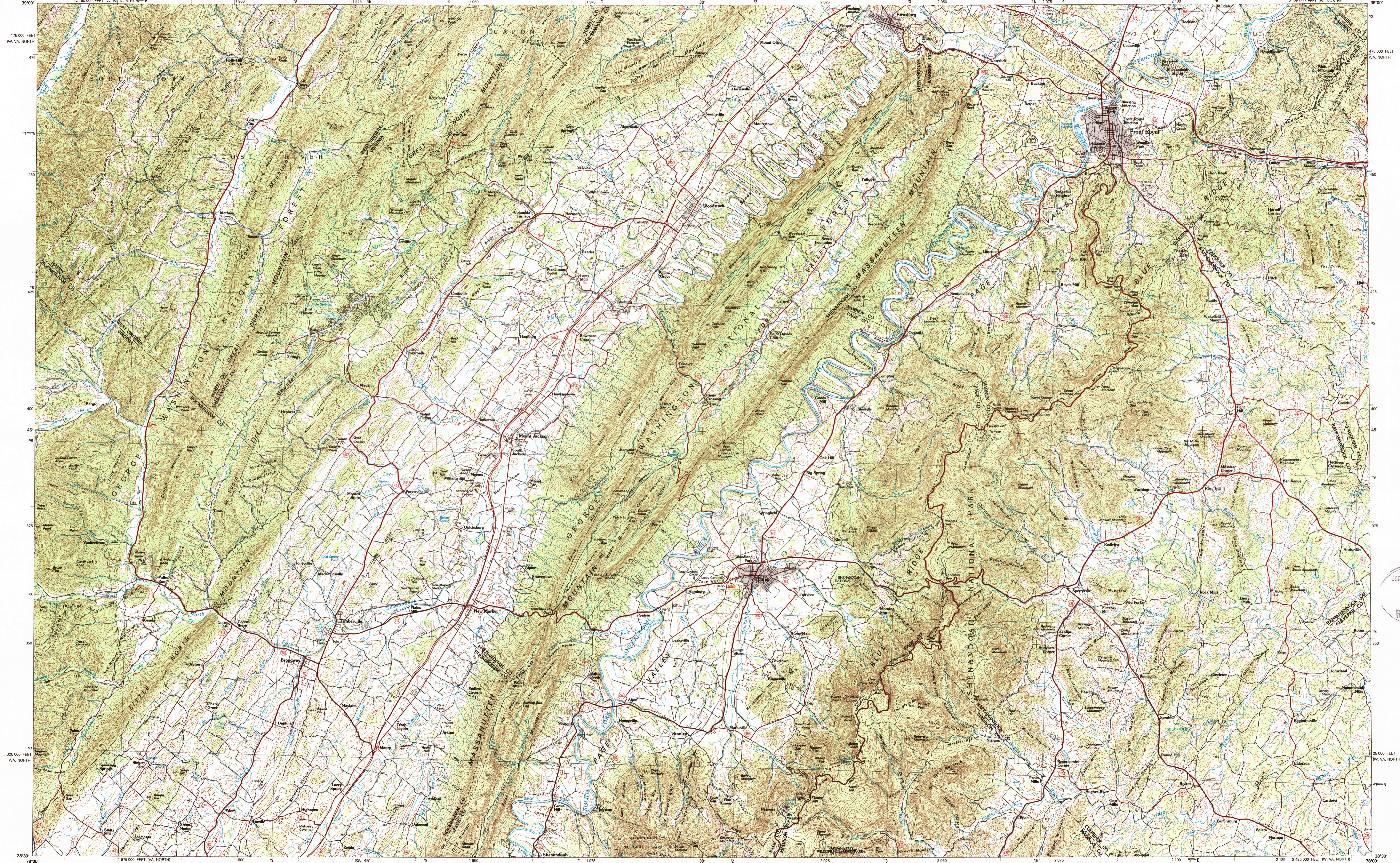
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
 OR RESTON, VIRGINIA 22092

USGS HISTORICAL MAP
 JUN 29 1989
 REC'D FILE COPY

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, trail
- Route marker: Interstate, U.S., State
- Railroad: standard gage, narrow gage
- Bridge: suspension, culvert
- Tunnel: road, railroad
- Built up area, locality, elevation
- Airport: landing field, landing strip
- National boundary
- State boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U.S. public lands survey: range, township; section
- Range, township; section line: protracted
- Power transmission line, pipeline
- Dam: dam with lock
- Cemetery: building
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry; gravel pit
- Campground; picnic area; U.S. location monument
- Rain, off-leading
- Discolored surface: strip mine, lava, sand
- Contours: index; intermediate; supplementary
- Bathymetric contours: index; intermediate
- Stream, lake: perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swampland
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request



SCALE 1:100 000
 1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
 CONTOUR INTERVAL 20 METERS

FRONT ROYAL, VIRGINIA—WEST VIRGINIA
 38078-E1-TM-100
 1986