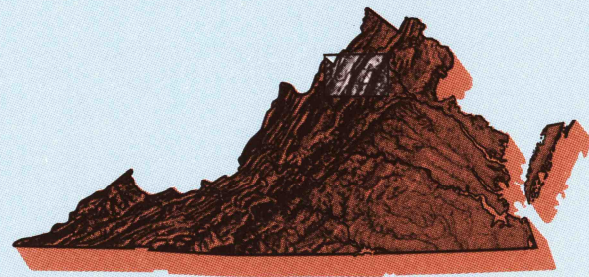


FRONT ROYAL, VIRGINIA—WEST VIRGINIA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)

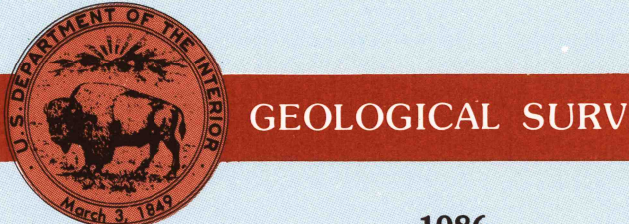
Front Royal
VIRGINIA—WEST VIRGINIA

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



1986

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.

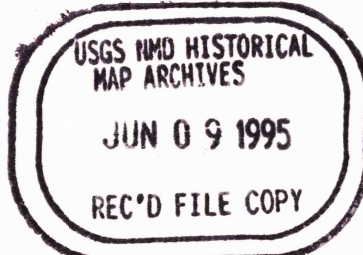
Projection and 10 000-meter grid, zone 17
Universal Transverse Mercator
25 000-foot grid ticks based on Virginia coordinate system, north zone and West Virginia coordinate system, north zone. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 8 meters south and 23 meters west
There may be private inholdings 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			1	2	3	4	5
1	3.2808			6	7	8		
2	6.5616							
3	9.8424							
4	13.1232							
5	16.4040							
6	19.6848							
7	22.9656							
8	26.2464							
9	29.5272							
10	32.8080							
To convert meters to feet multiply by 3.2808				UTM grid convergence (G) and 1986 magnetic declination (M) at center of map. Diagram is approximate.				
To convert feet to meters multiply by 0.3048								

ISBN 0-607-00285-9



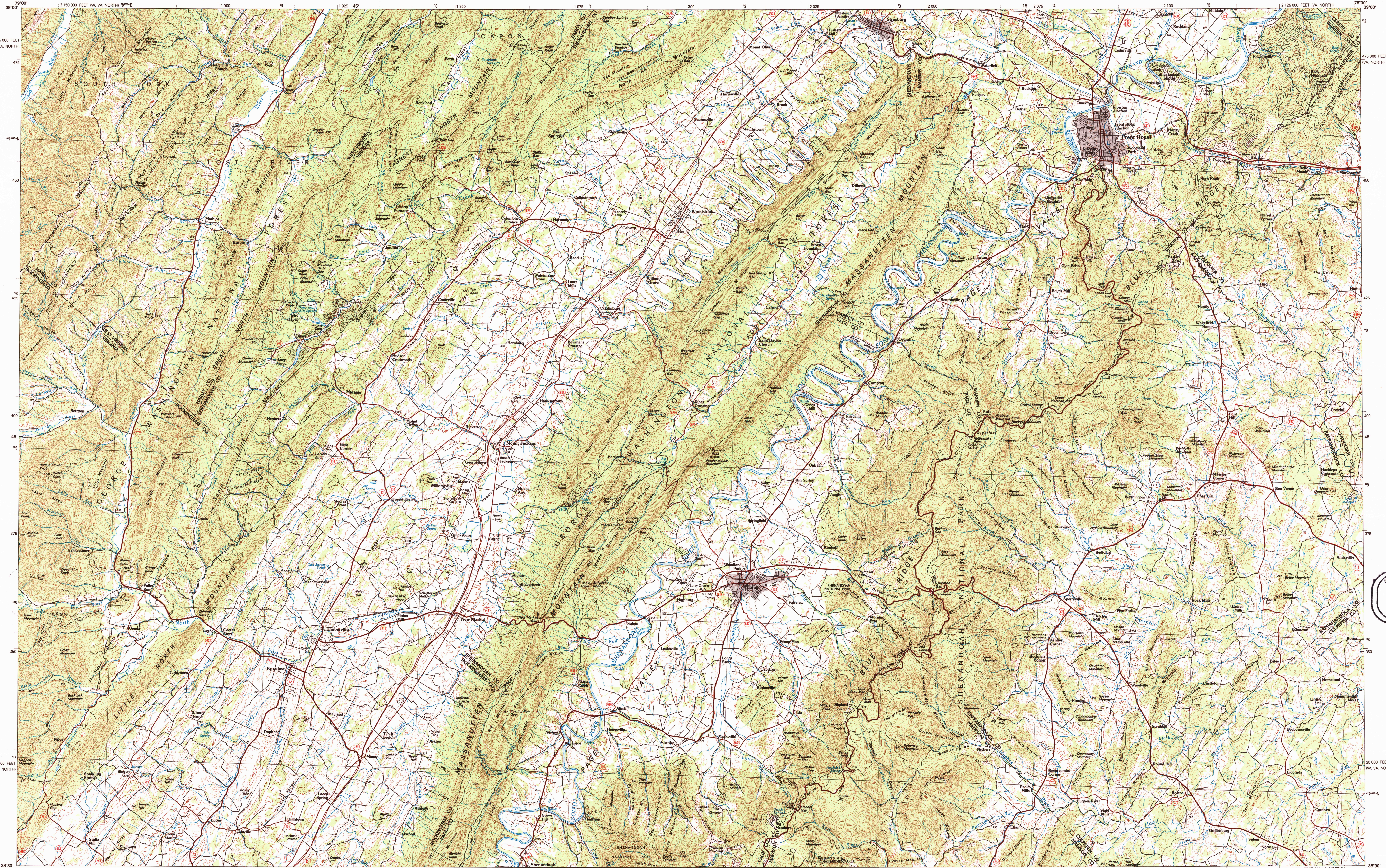
Topographic Map Symbols

Primary highway, hard surface	
Secondary highway, hard surface	
Light duty road, principal street, hard or improved surface	
Other road or street, trail	
Road marker: Interstate, U. S. State	
Railroad: standard gage, narrow gage	
Bridge: overpass; underpass	
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; protected	
Power transmission line: pipeline	
Dam; dam with lock	
Cemetery; building	
Windmill; water well; spring	
Mine shaft; adit or ore vein; quarry; gravel pit	
Campground; picnic area; U. S. location monument	
Ruins; cliff dwelling	
Distorted 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, swamp	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A perspective describing topographic maps is available on request

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

1986



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