



# Valier MONTANA

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

**GEOLOGICAL SURVEY**

1984

Produced by the United States Geological Survey  
 Compiled from USGS 1:250 000 and 1:62 000-scale topographic maps dated 1934-1948. Partially revised from aerial photographs taken 1973-1975 and other source data. Revised information not field checked. Map edited 1984.

Projection and 10 000-meter grid, zone 12 Universal Transverse Mercator  
 25 000-foot grid ticks based on Montana coordinate system, north zone, 1927 North American Datum  
 To place on the predicted North American Datum 1983 move the projection lines 10 meters north and 65 meters east  
 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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	GN	MN	1	2	3
1	3.2808		20 MILES	4	5	6
2	6.5617			7	8	
3	9.8425					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
10	32.8084					

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

UTM grid convergence (GN) and 1984 magnetic declination (MN) at center of map. Diagram is approximate.

1 Salt Lake City  
 2 Salt Lake City  
 3 Sweet Grass Hills  
 4 Henry Horse Res.  
 5 Comrad  
 6 Snake Peak  
 7 Cheyenne  
 8 Great Falls North

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

### 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: overpass; underpass	
Tunnel: rail; road	
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; graticule	
Power transmission line; pipeline	
Dam: dam with lock	
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	
Road; off highway; U. S. location monument	
Disturbed 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 pamphlet describing topographic maps is available on request