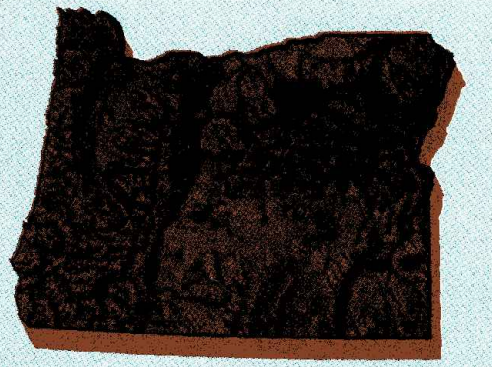


1:100 000-scale metric topographic map of Heppner OREGON



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

1981

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1967-1970. Planimetry revised from aerial photographs taken 1976-77 and other source data. Revised information not field checked. Map edited 1981.
 Projection and 10 000-meter grid, zone 11, Universal Transverse Mercator
 25 000-foot grid ticks based on Oregon coordinate system, north zone, 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 19 meters north and 86 meters east
 There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 40 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet	MAGNETIC DECLINATION		1	2	3	4
1	3.2808			1	Colville	2	Hermiston
2	6.5617			3	Pendleton		
3	9.8425			4	Condon		
4	13.1234			5	La Grande		
5	16.4042			6	Stipson Mountain		
6	19.6850			7	Monument		
7	22.9659			8	Dunes		
8	26.2467						
9	29.5275						
10	32.8084						

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

UTM grid convergence (RN) and 1981 magnetic declination (M) at center of map. Diagram is approximate.

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 access, dirt
- Route marker: Interstate, U. S. State
- Railroad: standard gage; narrow gage
- Bridge: overpass; underpass
- Tunnel: road; railroad
- Spill 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
- Well: water well; spring
- Mine shaft, adit or cave; mine, 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, pond, intermittent
- Rapids, ledge 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

