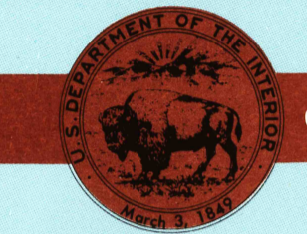


30 X 60 MINUTE QUADRANGLE
SHOWING

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



GEOLOGICAL SURVEY

1993

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1967-1990. Planimetry revised from aerial photographs taken 1987-1988 and other source data. Revised information not field checked. Map edited 1993.
 1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 11 50 000-foot ticks. Oregon coordinate system south zone and Idaho coordinate system, west zone.
 The difference between NAD 27 and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875.
 There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL: 50 METERS
 SUPPLEMENTARY CONTOUR INTERVAL: 25 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U.S. GEOLOGICAL SURVEY,
 P.O. BOX 25286, DENVER, COLORADO, 80225

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
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

CONVERSION TABLE	DECLINATION DIAGRAM	ADJOINING MAPS						
		<table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>7</td><td>8</td></tr> </table>	1	2	3	4	7	8
1	2	3						
4	7	8						

1. John Day
 2. Brogan
 3. Bolner
 4. Sinkwater Mtns
 5. Baker
 6. Malheur Lake
 7. Malheur Mtn
 8. Murphy



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HISTORICAL 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: 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 cave; mine, quarry; gravel pit	
Campground; picnic area; U. S. location monument	
Ruins; cliff dwelling	
Distorted surface: strip, mine, lava; sand	
Contour: pink; intermediate; supplementary	
Bathymetric contour: index; intermediate	
Stream, lake: perennial; intermittent	
Rapid, large and small; falls, large and small	
Area to be submerged; marsh; swamp	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

