



1:100 000-scale metric
topographic map of
Madras
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

1983

Produced by the United States Geological Survey
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1961-1963. Planimetry revised from aerial photographs taken 1975 and other source data. Revised information not field checked. Map edited 1983.
Projection and 10 000-meter grid, zone 10, 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 21 meters north and 92 meters east
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

| CONVERSION TABLE | | DECLINATION DIAGRAM | ADJOINING MAPS | | |
|------------------|---------|---------------------|----------------|---|---|
| Meters | Feet | | 1 | 2 | 3 |
| 1 | 3.2808 | | 1 | 2 | 3 |
| 2 | 6.5617 | | 4 | 5 | 6 |
| 3 | 9.8425 | | 7 | 8 | |
| 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 convergency (GN) and 1983 magnetic declination (MD) at center of map
Diagram is approximate

1 Oregon City
2 Mount Hood
3 Corvallis
4 North Santiam River
5 Stephens Mountain
6 McKenzie River
7 Bend
8 Prineville

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 gauge; narrow gauge | |
| Bridges; 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 | |
| Rules; 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 | |

USGS AND HISTORICAL MAP ARCHIVES

A pamphlet describing topographic maps is available on request

RETURN TO:
USGS AND HISTORICAL MAP ARCHIVES