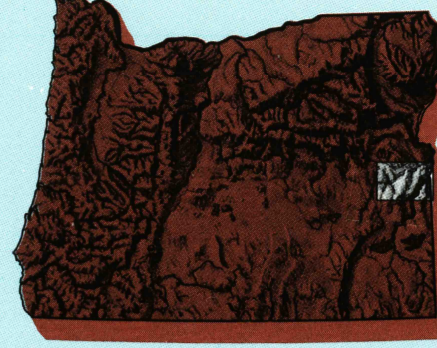


# Vale

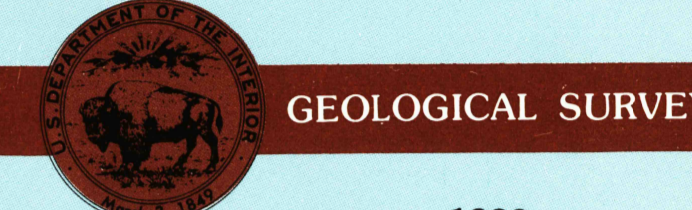
OREGON-IDAHO

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



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, 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

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4043
6	19.6852
7	22.9661
8	26.2470
9	29.5279
10	32.8088

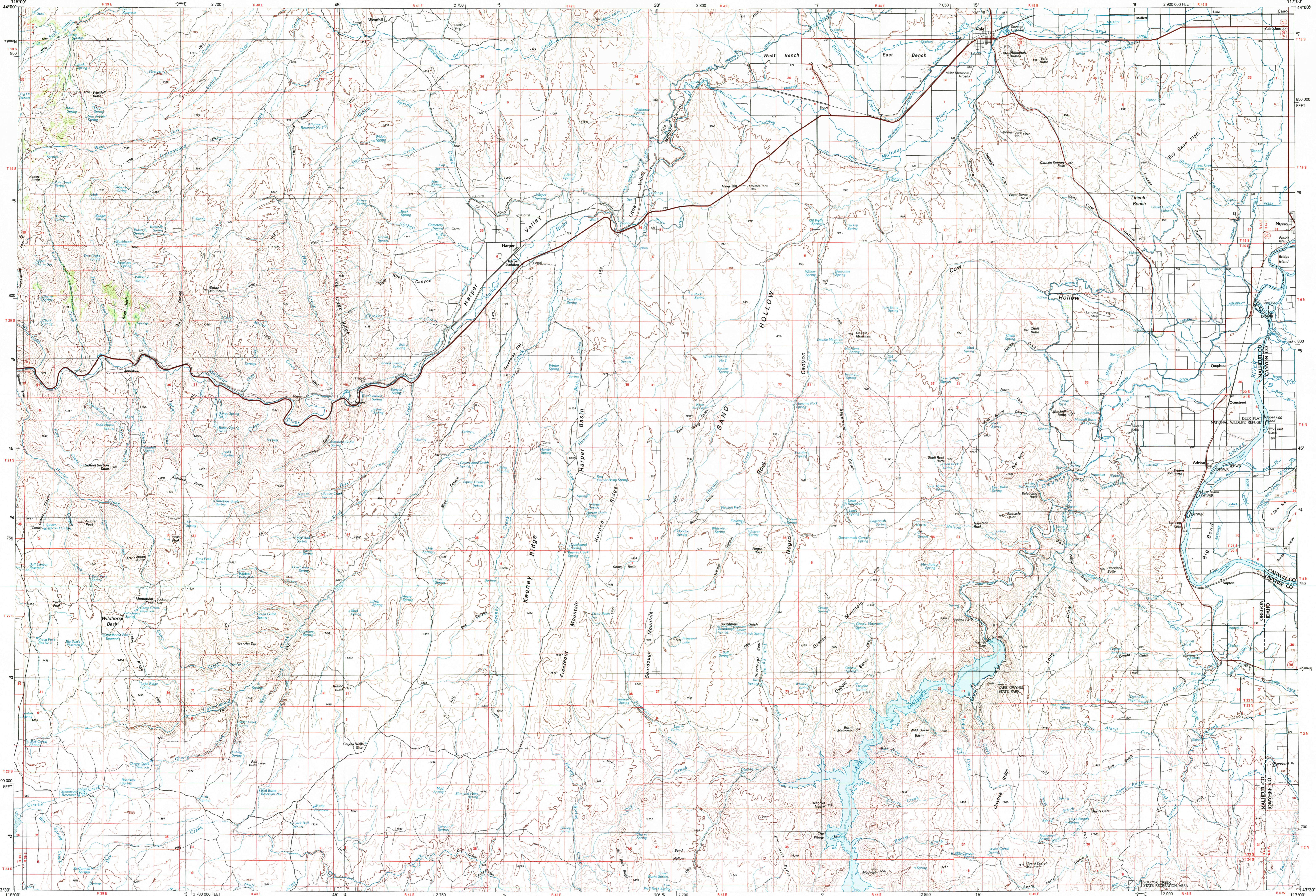
CONVERSION TABLE	DECLINATION DIAGRAM	ADJOINING MAPS
To convert meters to feet multiply by 3.2808		1 John Day
To convert feet to meters multiply by 0.3048		2 Brogan
		3 Weiser
		4 Skunkwater Mtn
		5 Malheur Lake
		6 Malheur Mtn
		7 Murphy
		8

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: 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: protracted
- Power transmission line; pipeline
- Dam, dike 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, levee, 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