

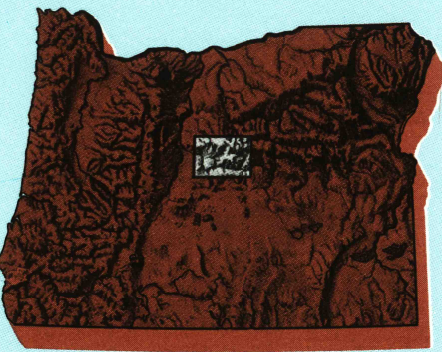
BEND, OREGON

30X60 MINUTE SERIES (TOPOGRAPHIC)

44121-A1-TM-100

Bend  
OREGON

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

1980  
PHOTOINSECTED 1991

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1959-75. Planimetry revised from aerial photographs taken 1978 and other source data. Revised information not field checked. Map edited 1980  
1927 North American Datum (NAD 27). Projection and 10 000-meter grid. Universal Transverse Mercator, zone 10  
25 000-foot ticks: Oregon coordinate system, south and north 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

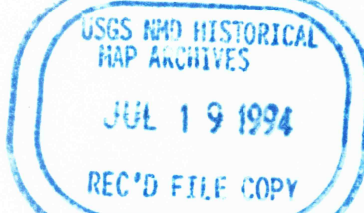
There may be private inholdings within the boundaries of the National or State reservations shown on this map

Proctored land lines are dashed  
Map photoinsected using 1990-91 photographs  
No major culture or drainage changes found

CONTOUR INTERVAL 40 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC DATUM OF 1929

| CONVERSION TABLE                             |         | DECLINATION DIAGRAM   | ADJOINING MAPS |   |   |   |   |   |
|--|---------|---|----------------|---|---|---|---|---|
| Meters                                       | Feet    |   | 1              | 2   | 3 | 4 | 5 | 6 |
| 1  | 3.2808  |   | 1              | 2   | 3 | 4 | 5 | 6 |
| 2  | 6.5617  |   |                |   |   |   |   |   |
| 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 |         | UTM grid convergence (G) and 1983 magnetic declination (M) at center of map |                | 1 North Santiam River<br>2 Madras<br>3 Siskiyou Mountains<br>4 McKenzie River<br>5 Deschutes<br>6 Cascade<br>7 LaPine<br>8 Brothers |   |   |   |   |
| To convert feet to meters multiply by 0.3048 |         | 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 street; trail.....                                 |  |
| Route marker: Interstate; U. S.; State.....                      |  |
| Railroad: standard gauge; narrow gauge.....                      |  |
| 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; 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.....                   |  |
| 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.....   |  |

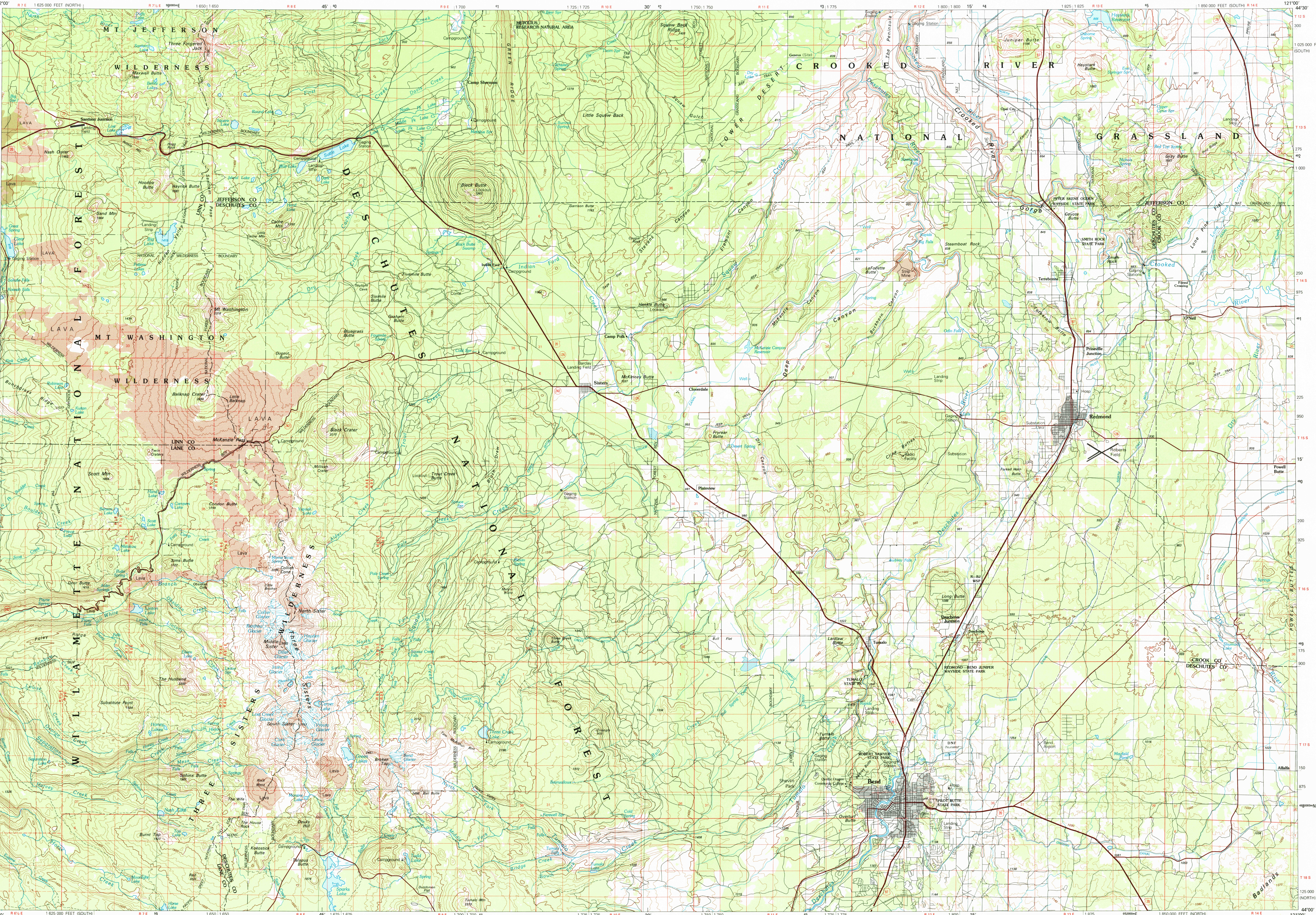
A pamphlet describing topographic maps is available on request

BEND, OREGON

44121-A1-TM-100

1980

PHOTOINSECTED 1991



• INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1993

KILOMETERS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

MILES

0 1 2 3 4 5 6 7 8 9 10 11 12 13

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 40 METERS

SUPPLEMENTARY CONTOUR INTERVAL 10 METERS

1000

0

5000

10000

5000

0

10000

20000

30000

0

40000

50000

60000

0

70000

80000

90000

0

100000

110000

120000

0

130000

140000

150000

0

160000

170000

180000

0

190000

200000

210000

0

220000

230000

240000

0

250000

260000

270000

0

280000

290000

300000

0

310000

320000

330000

0

340000

350000

360000

0

370000

380000

390000

0

400000

410000

420000

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