



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROL BY ..... USGS, NOS/NOAA  
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN ..... 1981-82  
FIELD CHECKED ..... 1982. MAP EDITED ..... 1985  
PROJECTION ..... LAMBERT CONFORMAL CONIC  
BLUE 1000-METER UNIVERSAL TRANSVERSE MERCATOR TICS, ZONE 10  
HORIZONTAL DATUM ..... NORTH AMERICAN DATUM OF 1927 (NAD 27)  
UTM GRID DECLINATION ..... 0°38' EAST  
1980 MAGNETIC NORTH DECLINATION ..... 18°30' EAST  
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
10 000-FOOT STATE GRID TICKS ..... OREGON, SOUTH ZONE  
UTM GRID DECLINATION ..... 0°38' EAST  
1980 MAGNETIC NORTH DECLINATION ..... 18°30' EAST  
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
HORIZONTAL DATUM ..... NORTH AMERICAN DATUM OF 1927 (NAD 27)  
The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are  
obtainable from National Geographic Survey NADCON software.  
There may be private inholdings within the boundaries of any Federal and State  
reservations shown on this map.  
Where omitted, land lines have not been established.

**PROVISIONAL MAP**  
Produced from original  
manuscript drawings. Informa-  
tion shown as of date of  
photography.

SCALE 1:24 000

1 000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

KILOMETERS

1 000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

MILES

FEET

CONTOUR INTERVAL 40 FEET

CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 FOOT  
OTHER ELEVATIONS SHOWN TO THE NEAREST FOOT  
To convert meters to feet multiply by 3.2808  
To convert feet to meters multiply by 0.3048

ROAD LEGEND

Improved Road .....  
Unimproved Road .....  
Trail .....  
Interstate Route ..... U.S. Route ..... State Route

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

1 Pumice Desert West  
2 Pumice Desert East  
3 Welch Butte  
4 Crater Lake West  
5 Pothole Butte  
6 Union Peak  
7 Maklaka Crater  
8 Sun Pass

ADJOINING 7.5' QUADRANGLE NAMES