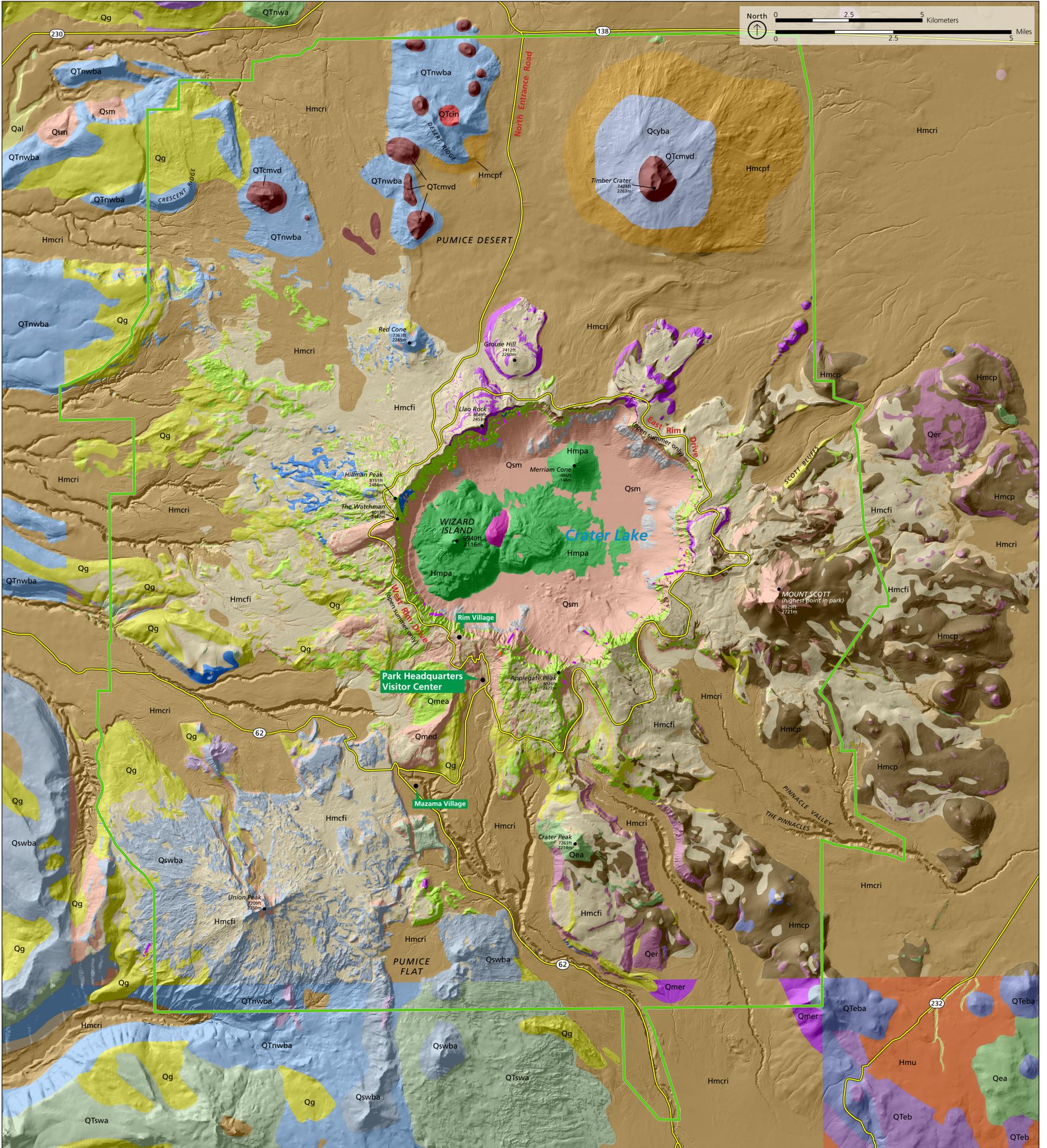




Simplified Geologic Map of Crater Lake NP



NPS Boundary

Infrastructure

Linear Dikes

Simplified Geologic Units

Alluvial Deposits

Slope Movements

Glacial Deposits

Undivided Sediments

Lake Deposits

Submerged Caldera Walls

Diatomite and Volcaniclastic Sediments

Mount Mazama Postclimatic Dome, Rhyodacite, Lava and Breccia

Mount Mazama Postclimatic Eruption Andesites

Mount Mazama Deposits, Undivided

Mount Mazama Climactic Eruption, Fine-grained Lithic- and Crystal-rich Ignimbrite

Mount Mazama Climactic Eruption, Lithic Breccia

Mount Mazama Climactic Eruption, Ring-vent-phase Ignimbrite

Mount Mazama Climactic Eruption, Plinian and other Holocene Pumice-fall Deposits

NOTE: This simplified geologic map compiled hundreds of map units from the source maps into 36 categories. The volcanic rocks were grouped by volcano and then by rock type. Mount Mazama deposits were further differentiated by preclimactic, climactic, or postclimactic.

Non-volcanic rocks and deposits were grouped into major categories: alluvial, slope movements, glacial, and lake deposits; diatomite and volcaniclastic sediments; submerged caldera walls; and undivided sediments.

- Hmcrw** Mount Mazama climactic eruption, Wineglass Welded Tuff of Williams (1942)
- Hmcpf** Mount Mazama climactic eruption, pumice-flow deposits
- Qmer** Mount Mazama preclimactic eruption, rhyodacite
- Qmed** Mount Mazama preclimactic eruption, dacite
- Qmeba** Mount Mazama preclimactic eruption, basaltic andesite
- Qmea** Mount Mazama preclimactic eruption, andesite
- QTSwb** Southwest volcanism (Cascades), basalt
- QTSwa** Southwest volcanism (Cascades), andesite
- QSwba** Southwest volcanism (Cascades), basaltic andesite
- QSwva** Southwest volcanism (Cascades), andesite
- QTNwba** Northwest volcanism (Cascades), basaltic andesite
- QTNwb** Northwest volcanism (Cascades), basalt
- QTNwa** Northwest volcanism (Cascades), andesite
- QTea** East volcanism (Cascades), andesite
- QTeb** East volcanism (Cascades), basalt
- QTeba** East volcanism (Cascades), basaltic andesite
- QTer** East volcanism (Cascades), rhyodacite
- QTed** East volcanism (Cascades), dacite
- Qcya** Cascades volcanism, younger basaltic andesite
- Qcv** Cascades volcanism, cinder cone and fissure vent deposits
- Qcmvd** Cascades volcanism, mafic vent deposits
- QTcin** Cascades volcanism, intrusive rocks and dikes

Full Extent of Digital Data, Area of Detail in Red



This map is an overview of compiled geologic data prepared as part of the NPS Geologic Resources Inventory. It is not a substitute for site-specific investigations.

The source map used in creation of the digital geologic data was:
Bacon, C.R. 2008. Geologic Map of Mount Mazama and Crater Lake Caldera, Oregon (1:24,000 scale). Scientific Investigations Map 1084-2012. U.S. Geological Survey.

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 12 m (60 ft) (1:24,000 scale data), 51 m (166 ft) (1:100,000 scale data), 63 m (208 ft) (1:125,000 scale data), or 127 m (416 ft) (1:250,000 scale data) of their true location.

All digital geologic data and publications prepared as part of the Geologic Resources Inventory are available at the NPS Integrated Resource Management Applications Portal (IRMAP): <https://irma.nps.gov/App/References/Search>. Enter "GRI" as the search text and select a park from the units list.

Smith, J.G., Page, N.J., Johnson, M.G., Morning, B.C., and Gray, F. 1982. Preliminary Geologic Map of the Medford 1 by 2 degree Quadrangle, Oregon and California (1:250,000 scale). Open-File Report OF-82-955. U.S. Geological Survey.

Macdonald, N.S. and Shand, D.R. 1992. Reconnaissance Geologic Map of the West Half of the Crater 1 by 2 degree Quadrangle, Central Oregon (1:250,000 scale). Miscellaneous Investigations Series Map 1-2215(1). Geological Survey.

Shand, D.R. 1991. Geologic Map of a Part of the Cascade Range between latitudes 43 degrees -44 degrees, Central Oregon (1:125,000 scale). Miscellaneous Investigations Series Map 1-1891. U.S. Geological Survey.