



**NPS Boundary**

**Infrastructure**

- campgrounds
- buildings
- trails
- roads

**Volcanic Line Features**

- vent

**Faults**

- normal fault, known or certain  
bar and ball on downthrown block
- normal fault, concealed  
bar and ball on downthrown block

**Volcanic Line Features**

- non-eruptive fissure, known or certain

**Ash from Cinder Cone, Isopachs**

- approximate

**Surficial Units**

- water
- HPEal Alluvium, talus, and colluvium
- HPEsm Slope-movement deposits
- HH Hydrothermal deposits
- HPEt Glacial deposits, till
- PEo Glacial deposits, outwash
- Hd Diatomite

**Lassen Volcanic Center**

- HPE-LTy Twin Lakes sequence, younger
- HPE-Le Eagle Peak sequence
- HPE-Lto Twin Lakes sequence, older
- PE-Lb Bumpass sequence
- PE-Lvd Brokeoff Volcano, Diller sequence
- PE-Lvm Brokeoff Volcano, Mill Canyon sequence
- PE-Lr Rockland caldera complex

**Regional Volcanic Rocks**

- PE-Rnw north and west of Lassen volcanic center
- PE-Rse south and east of Lassen volcanic center
- PE-Rc Caribou volcanic field
- PEPL-ro Older regional volcanic rocks of the Caribou area
- PEPL-D Dittmar volcanic center

**NOTE:** This simplified map displays grouped geologic units which have been clipped to the park boundary. Refer to "lavo\_geology.pdf" for a list and description of all units in the GRI GIS data.

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

The source maps used in creation of the digital geologic data were:

Clyne, M.A., and Muffler, L.J.P. Geologic Map of Lassen Volcanic National Park and vicinity, California (scale 1:50,000). Scientific Investigations Map SIM-2899. U.S. Geological Survey, Washington, DC.

Muffler, L.J.P., Robinson, J.E., Felger, T.A., Dutton, D.R., and Clyne, M.A., 2010. Database for the Geologic Map of Lassen Volcanic National Park and vicinity, California in Clyne, M.A., and Muffler, L.J.P., 2010. Geologic map of Lassen Volcanic National Park and vicinity, California (scale 1:24,000). Scientific Investigations Map SIM-2899. U.S. Geological Survey, Washington, DC.

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 25 m (83 ft) (1:50,000 scale data) or 12 m (40 ft) (1:24,000 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 (IRMA): <https://irma.nps.gov/geology/#/search>. Enter "GRI" as the search text and select a park from the unit list.

North

0 1 2 3 Kilometers

0 1 2 3 Miles