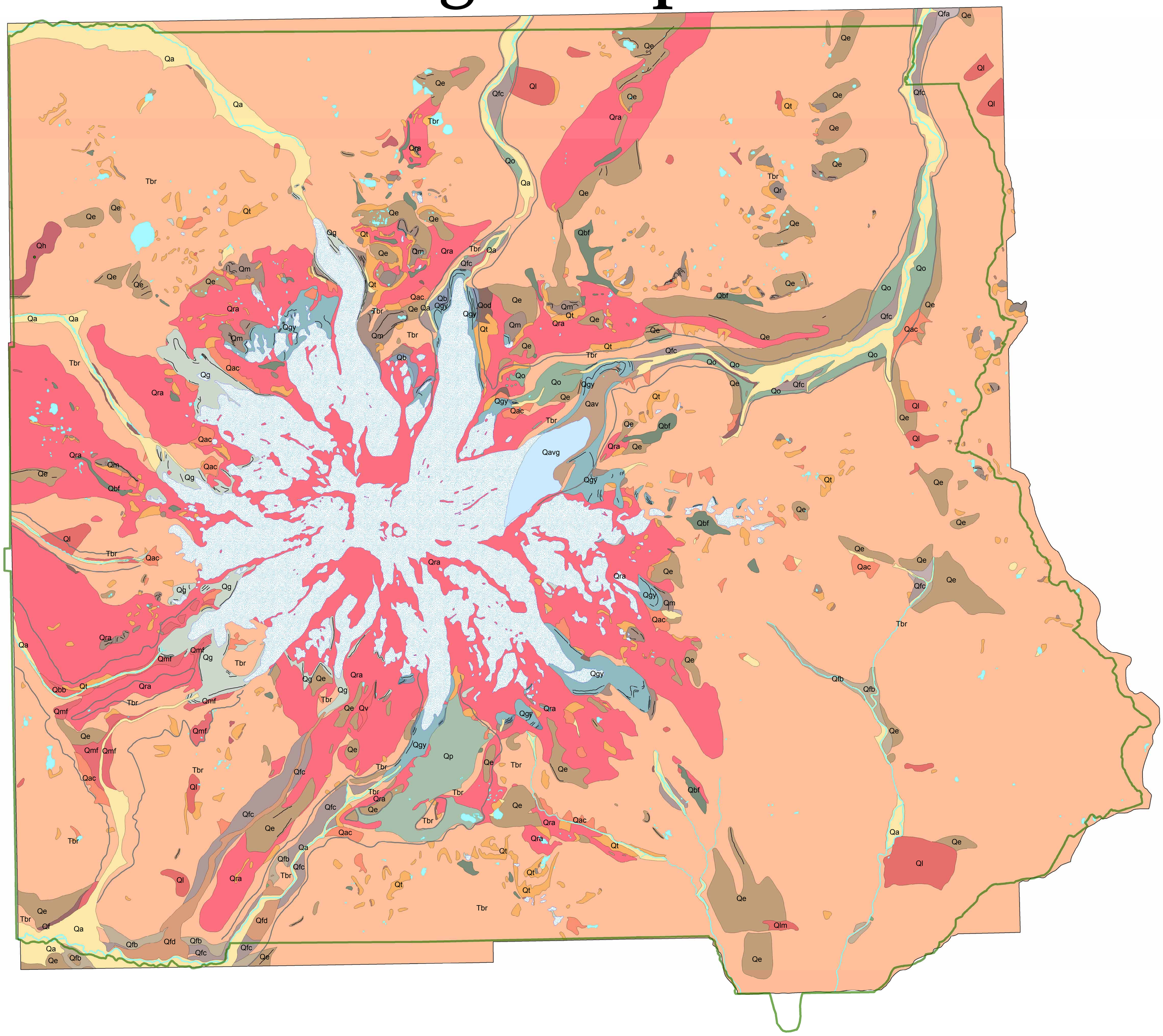
Mount Rainier National Park
Washington

National Park Service
U.S. Department of the Interior

# Surficial Geologic Map




The original map digitized by NPS staff to create this product was:

Crandell, D.R. 1969. Surficial geology of Mount Rainier National Park, Washington. USGS Bulletin 1288. 1:48,000 scale.

Digital geologic data and cross sections for Mount Rainier National Park, and all other digital geologic data prepared as part of the Geologic Resources Divisions Geologic Resource Evaluation program, are available through the Natural Resource – GIS metadata and data store: http://science.nature.nps.gov/nrdata/

N

0 1.5 3 6 Miles

0 2.5 5 10 Kilometers

**NPS Units**
- Mount Rainier NP

**Hazard Feature Lines**
- Height reached by Osceola Mudflow

**Glacial Feature Lines**
- crest of glacial moraine, approximate

**Linear Dikes**
- Tdi - Diorite, quartz diorite, granodiorite, and quartz monzonite porphyries
- Td - Diabase and basalt

**Surfical Contacts**
- approximate
- map boundary
- shoreline
- ice, approximate

**Surficial Units**
- Qav - Avalanche deposits from Little Tahoma Peak
- Qavg - Avalanche deposits from Little Tahoma Peak (on Emmons Glacier)
- Qa - Alluvium
- Qac - Alluvial cones
- Qtr - Travertine
- Ql - Landslide deposits
- Qlm - Landslide deposits (moving in 1960-66)
- Qt - Talus
- Qbf - Block-field deposits
- Qmf - Mudflows
- Qg - Garda Drift
- Qgy - Garda Drift, younger
- Qgo - Garda Drift, older
- Qbb - Bomb-bearing deposits in South Puyallup River valley
- Qb - Burroughs Mountain Drift
- Qf - Interbedded mudflows and alluvium, units undifferentiated
- Qfd - Interbedded mudflows and alluvium, unit D
- Qfc - Interbedded mudflows and alluvium, unit C
- Qfb - Interbedded mudflows and alluvium, unit B
- Qfa - Interbedded mudflows and alluvium, unit A
- Qo - Osceola Mudflow
- Qp - Mudflow of Paradise Peak
- Qpt - Protalus ramparts
- Qm - McNeely Drift
- Qr - Rock glacier deposits
- Qv - Mudflow of Van Trump Park
- Qe - Evans Creek Drift
- Qh - Hayden Creek Drift
- Qod - Old Drift
- Qra - Volcanic rocks of Mount Rainier
- Tbr - Rock formations older than Mount Rainier
- Glacial Ice
- Water

**Produced by Geologic Resources Division**

**September 2005**

FILE: mora_geolgy_e.mxd