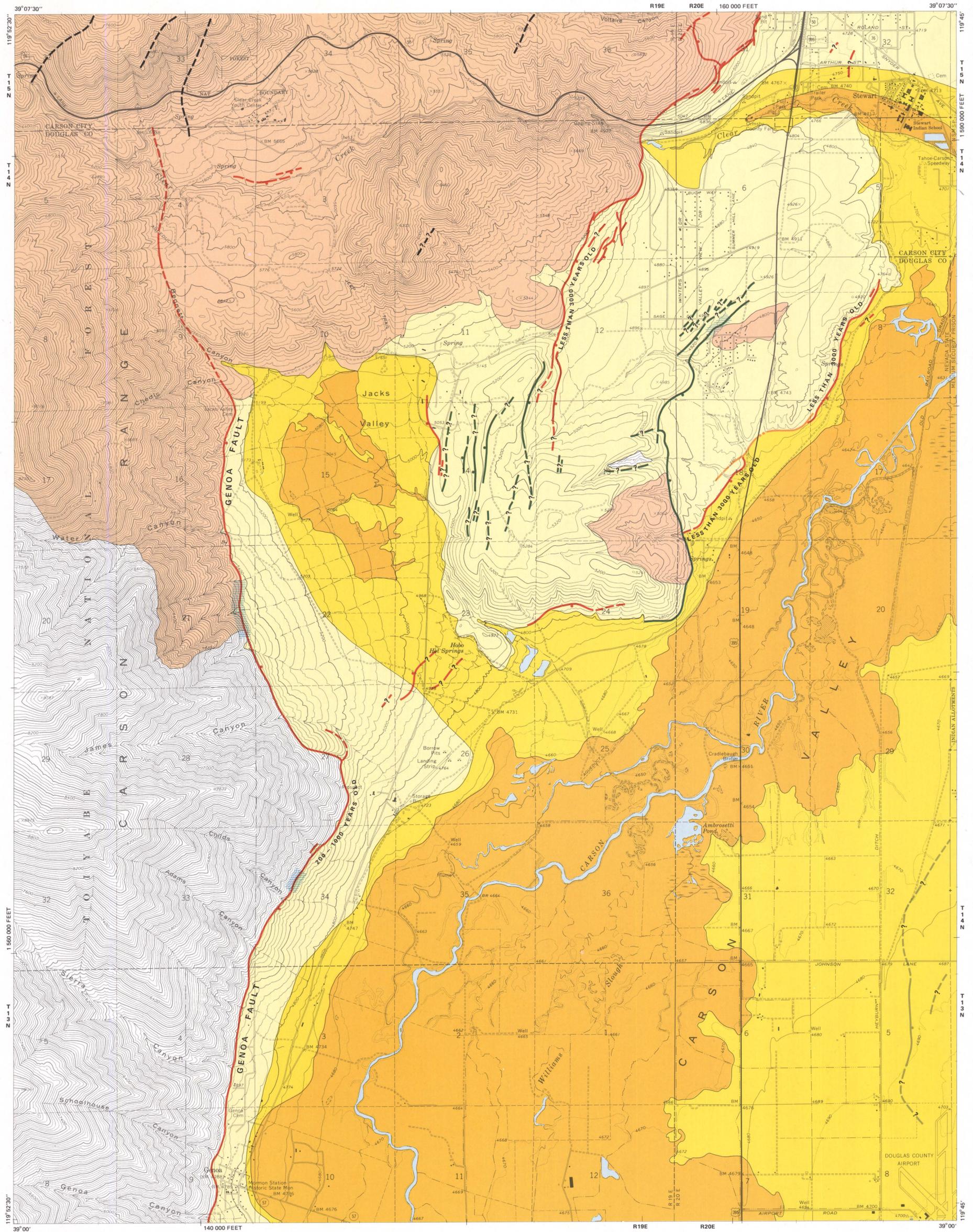


GENOA QUAD

EARTHQUAKE HAZARDS



POTENTIAL FOR GROUND SHAKING DURING EARTHQUAKES

- I** Greatest severity of shaking. Possible severe liquefaction. Depth to ground water less than 3 meters (10 ft). Consists of fine-grained alluvium.
- II** Moderate severity of shaking. May be subject to liquefaction. Depth to ground water less than 10 meters (30 ft). Includes fine- and coarse-grained alluvium.
- III** Moderate severity of shaking. Depth to ground water greater than 10 meters (30 ft). Includes all alluvial deposits outside of categories I and II.
- IV** Least severity of shaking. Consists of crystalline bedrock.

**V** Variable severity of shaking. Consists of granodiorite that exhibits variable weathering characteristics. Also includes thin colluvial-alluvial deposits overlying granodiorite and basin-fill deposits.

POTENTIAL FOR SURFACE RUPTURE  
Age of youngest fault displacement

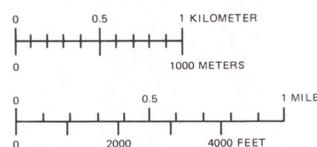
- Holocene (<12,000 years; locally less than 3000 years).
- Late Pleistocene (approximately 12,000–35,000 years).
- Mid- to late Pleistocene (approximately 35,000–100,000 years).
- Early to mid-Pleistocene (approximately 100,000–1.8 m.y.).
- Indeterminate; bedrock faults with last probable movement of pre-Pleistocene age.
- - - Possible fault.
- · - · - Fault. Dotted where concealed; dashed where approximately located. Ball on downthrown side.

▨ Landslide zone. Consists of existing landslides developed in colluvium; confined to slopes greater than 10 percent along faults. Slope failure previously induced by movement of associated faults; future slope failure could probably be generated by fault rupture.

Robert C. Pease, 1979

Depth to ground water based on a compilation of existing ground-water reports and well logs. Geology units from Pease (1979) Geologic map, Genoa quadrangle, Nevada Bureau of Mines and Geology open-file map. Work supported by a grant from the Nevada Civil Defense and Disaster Agency.

Scale 1:24,000



CONTOUR INTERVAL 40 FEET  
DOTTED LINES ARE 10-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL

Topographic base from U. S. Geological Survey Genoa 7 1/2' quadrangle, 1974  
Cartography by Susan L. Nichols

NEVADA BUREAU OF MINES AND GEOLOGY  
UNIVERSITY OF NEVADA  
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The hazards shown on this map are based upon current available data. Shaking characteristics are inferred from interpretation of geologic, seismic velocity, soils engineering, and ground-water information. Surface rupture potentials are inferred from generalized geologic and soils (weathering profile) information.

These data are intended to be used only as a generalized guide and will be subject to change as more data become available.

Assessment of seismic hazard potential for individual sites must be based upon detailed engineering and seismic studies; such assessments should not be inferred from this map.