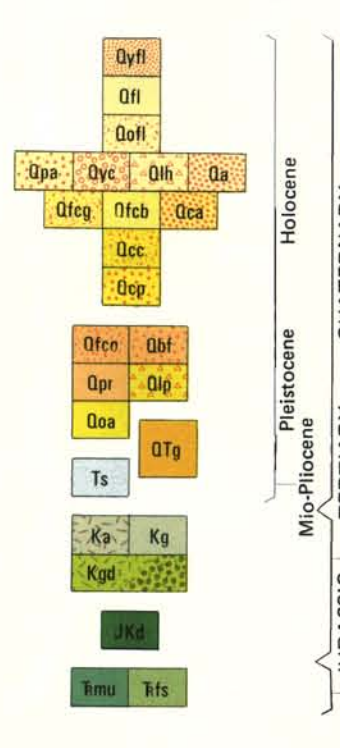
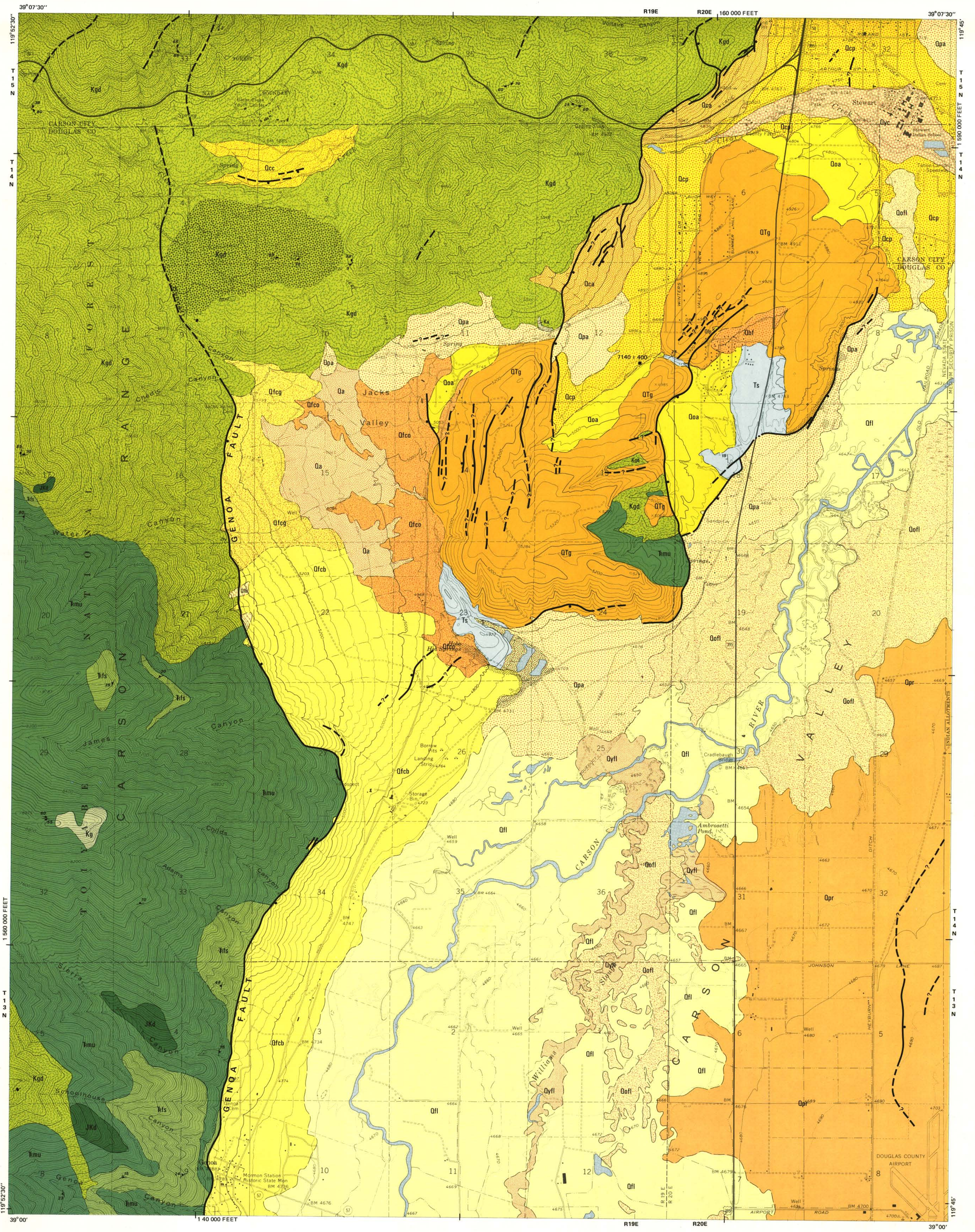


GENOA QUAD

GEOLOGY



**Qyfl** Young flood-plain and channel deposits of the Carson River. Very dark grayish-brown, sandy mud. Non-indurated, well sorted. Mollisols, A-C profiles. <2000 yrs old.

**Qfl** Flood-plain deposits of the Carson River. Brown to olive-gray, muddy medium to coarse sand, sandy mud. Non-indurated, moderately well sorted. Mollisols, A-C profiles. <2000 yrs old.

**Qoal** Older flood-plain deposits of the Carson River. Light brownish-gray, slightly gravelly medium sand. Non-indurated, moderately sorted. Reworked alluvial deposits with geomorphic features similar to Qfl. Mollisols and Inceptisols, A-C profiles. <2000 yrs old.

**Qpa** Pediment and alluvial-fan deposits. Moderate to yellowish-brown, gravelly fine to coarse sand, gravelly fine sandy mud in small fans, bajadas, and minor pediment veneers. Non-indurated, moderately sorted. Entisols lacking distinct pedogenic horizons. <2000 yrs old.

**Qyc** Flood-plain deposits of Clear Creek. Dark brown, muddy very fine sand. Non-indurated, moderately well sorted. Mollisols, A-C profiles. <2000 yrs old.

**Qlh** Landslide deposits. Unsorted debris from shallow slope failure in Qfcb. Probable late Holocene age.

**Qa** Alluvium of Jacks Valley. Dark reddish-brown to olive-black medium sand. Non-indurated, well sorted. Mollisols, A-C profiles. Middle to late Holocene; soils <4000 yrs old.

**Qfcg** Alluvial-fan deposits of the Carson Range. Qfcg: Very dark brown, muddy sandy granule gravel, gravelly medium to coarse sand. Non-indurated, moderately sorted. Low gradient fans derived from Kgd. Qfcb: Yellowish to dark grayish-brown, muddy sandy pebble to cobble gravel. Non-indurated, unsorted. Steep gradient fans derived from Kgd, Tmu, and Rfs. Mollisols, A-C profiles. Early to middle Holocene; soils about 5000 yrs old.

**Qca** Colluvial and alluvial deposits. Dark reddish-brown, sandy granule to pebble gravel. Non-indurated, poorly sorted, crossbedded. Slopewash deposited at base of faults in weathered Kgd. Mollisols, A-C profiles. Early to middle Holocene; soils about 5000 yrs old.

**Qcc** Colluvial and stream deposits of Clear Creek. Yellowish-red to pale-brown, muddy coarse sand, gravelly medium sand. Non-indurated, poorly to well sorted. Mollisols, discontinuous cambic B profiles. Early to middle Holocene; soils about 5000 yrs old.

**Qcp** Alluvial-plain deposits of Clear Creek. Yellowish-brown, sandy pebble gravel. Weakly indurated, poorly sorted. Forms low-gradient plain continuous into Eagle Valley. Mollisols, cambic B profiles. Early Holocene; soils about 7000 yrs old.

**Qfco** Older alluvial deposits of the Carson Range. Reddish-gray to yellowish-brown, muddy sandy cobble gravel, gravelly muddy very fine to medium sand. Weakly indurated, poorly sorted. Includes fans and undifferentiated alluvium. Mollisols, cambic B profiles. Wisconsinian to early Holocene; soils about 10,000 yrs old.

**Qbf** Basin-fill deposits. Dark yellowish-brown to yellow, slightly gravelly coarse sand. Non-indurated, moderately well sorted. Aridisols, cambic B profiles. Wisconsinian to early Holocene; soils about 10,000 yrs old.

**Qpr** Old alluvium of the Pine Nut Range. Olive-brown, sandy granule gravel, gravelly fine to coarse sand. Non-indurated, poorly to well sorted. Aridisols, B<sub>2</sub>t and Csi profiles. Early to middle Pleistocene.

**Qlp** Landslide deposits. Unsorted debris from shallow block rotation in QTg. Probable early to middle Pleistocene.

**Qoa** Old alluvium. Strong brown to dark yellowish-brown, muddy sandy pebble and cobble gravel, gravelly medium sand. Weakly to non-indurated, unsorted to poorly sorted. Contains Tmu and Rfs clasts, and diatomaceous ash near surface. Aridisols, B<sub>2</sub>t and Csi profiles. Early to middle Pleistocene.

**QTg** Pediment deposits of Indian Hills. Dark reddish-brown to very pale-brown, sandy pebble to cobble gravel. Non-indurated, unsorted. Contains mostly Tmu and Rfs clasts, and local lenses of fine sand. Forms deeply eroded, broad terraces of low gradient. Includes thin colluvial mantle on hillslopes. Aridisols, B<sub>2</sub>t and Csi profiles. Late Tertiary to early Pleistocene.

**Ts** Fluvio-lacustrine and alluvial sediments. Yellow to dark yellowish-brown, sandy granule to boulder gravel, tuffaceous fine siltstone. Weakly to well indurated, unsorted to well sorted.

**Ka** Granite aplite. Pinkish gray, fine grained, occurs as thin dikes in Kgd.

**Kgd** Granite. Light gray, fine grained, equigranular.

**Jkd** Hornblende-biotite granodiorite. Light gray to gray, fine to coarse grained, equigranular to porphyritic. Stippled where decomposed to depths >7 m (23 ft). Overlain by mantle of regolith and colluvium up to 5 m (16 ft) thick. Locally transitional to quartz monzonite porphyry.

**Tmu** Metavolcanic rocks, undifferentiated. Greenish gray to bluish gray, fine grained to porphyritic, hard. Mostly metamorphosed volcanic flows and breccia of intermediate to mafic composition. Includes small masses of fine-grained diorite. Lineated, foliated.

**Rfs** Felsic schist, undifferentiated. Light greenish gray to bluish gray, fine grained, siliceous. Includes slate and flaser gneiss. Interbedded with Tmu.

**Thin hot springs deposits.** Composed of CaCO<sub>3</sub> precipitate on alluvial surfaces. Generally confined to fault areas.

**Lithologic contact.** Long dashes where approximately located; short dashes where gradational; dotted where concealed.

**Fault.** Dashed where approximately located. Ball on downthrown side. Queried where possible fault.

**2** Strike and plunge of slickensides.

**Joint attitude.**

**Bedding schistosity attitude in metamorphic rocks.**

**Radiorobron sample location.** Showing age in years.

**Robert C. Pease, 1980**

Mapping in part based on McKinney, R. F. (1975) Environmental geology of eastern Carson City, Nevada. Univ. of Nevada, Reno, unpub. M.S. thesis.

