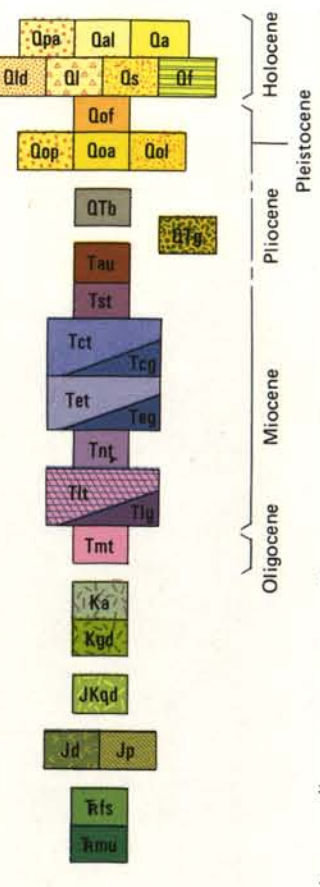
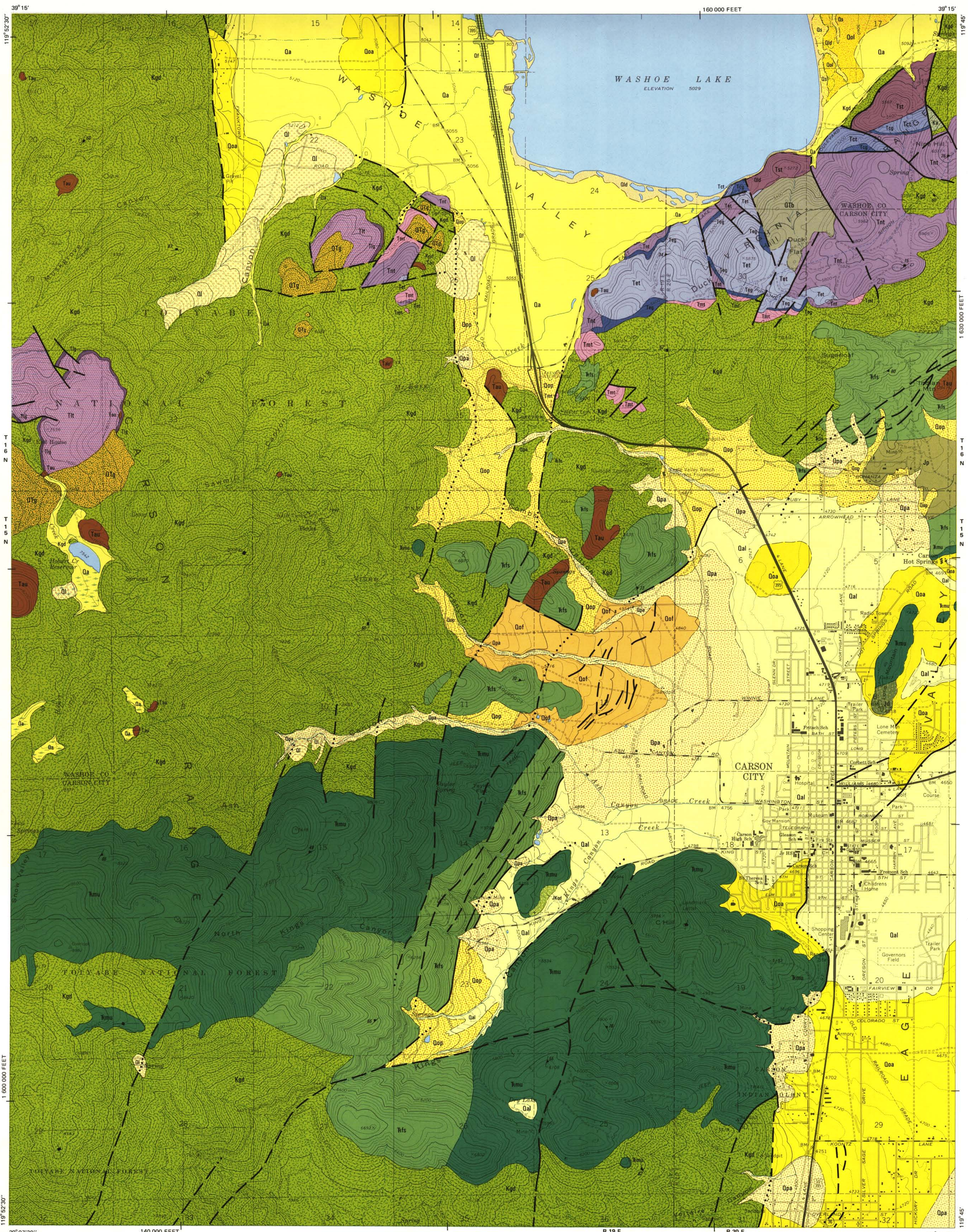


ENVIRONMENTAL SERIES

CARSON CITY FOLIO

CARSON CITY AREA



**Qpa** Pediment and alluvial-fan deposits. Grayish-orange, tan and gray-brown granular muddy coarse sand and sandy gravel in small fans, bajadas, and minor pediment veneers.

**Qal** Alluvial-plain deposits of Eagle Valley. Yellowish-brown to gray, unbedded to poorly bedded, poorly to moderately sorted, fine silty sand, sandy silt, granular muddy coarse sand, and minor sandy gravel. Underlies broad surfaces of low gradient.

**Qa** Alluvial-plain deposits of Washoe Valley. Tan to orange-brown, moderately to poorly bedded, angular to subrounded, fine to coarse granodioritic sand. Underlies gentle slopes and broad areas of low gradient. Fills closed depressions in high-land areas. Unweathered.

**Qld** Lake deposits. Tan to yellowish-brown, well-bedded silt and sand; restricted to the margins of Washoe Lake.

**Ql** Landslide deposits. Unsorted fine to coarse debris. Predominantly deeply weathered granodiorite.

**Qs** Sand dunes. White to light-gray, well-sorted, well-rounded quartz and feldspar grains with minor shell fragments. Moderately well developed cross bedding.

**Qf** Artificial fill.

**Qof** Older fan deposits of Vice Canyon. Medium-brown to light-brown, moderately to poorly sorted sandy large cobble gravel and slightly gravelly medium sand. Weathered. Moderately well-developed soil profile.

**Qop** Older alluvial-plain deposits. Moderately sorted, sandy small cobble gravel, slightly gravelly sand and sandy coarse silt. Similar to Qop but finer grained. Weakly to moderately weathered.

**Qoa** Older pediment gravel. Grayish-orange to dark yellow-brown small cobble to muddy sandy pebble gravel. Composition similar to nearby bedrock. Deposits slightly eroded, weakly to moderately weathered.

**Qol** Old lake deposits. Grayish-brown fine to coarse sand and silt in thin beds. Locally diatomaceous.

**Qtb** Basaltic andesite flow. Light greenish gray, sparsely porphyritic, very fine grained, locally flow banded. Orange-red iron-oxide stains on weathered surfaces.

**Qtg** Pediment gravel. Yellowish-gray to light-brown bouldery sandy cobble gravel. Most clasts subrounded and consist of all bedrock lithologies.

**Tau** Andesite, undifferentiated. Dark-gray to light-gray flows and intrusives; porphyritic to sparsely porphyritic plagioclase-pyroxene andesite. Some flows contain hornblende phenocrysts up to 1 cm. Weathers gray brown to red brown.

**Tst** Santiago Canyon Tuff. Hornblende-biotite quartz latite crystal-vitric ash-flow tuff. Gray to pale lavender or brownish gray, moderately to strongly welded, and largely devitrified. About 300 m thick.

**Tct** Crystal Tuff. Tct: Pinkish white to light red, weakly welded, devitrified, and weakly vitric tuff. Contains chatoyant sandstone. 0-120 m thick. Tcg: Underlying bouldery cobble gravel.

**Teg** Eureka Canyon Tuff. Tct: Pale yellowish-white to pale-gray, lavender, and tan rhyolite vitric tuff. Pale yellowish white, devitrified, and weakly vitric tuff. 0-130 m thick. Ttg: Underlying interformational bouldery gravel.

**Tnt** Nine Hill Tuff. Pale orange-red, pale-green, and reddish-purple densely welded to stretched, devitrified, very pumiceous vitric tuff. Grades upward into weakly welded to non-welded, pumice-poor vitric tuff. 0-300 m thick.

**Tit** Lenihan Canyon Tuff. Tit: Pale-lavender to purplish-tan, moderately to densely welded, devitrified, fine-grained hornblende quartz latite crystal-vitric tuff. 0-300 m thick. Tig: Underlying interformational bouldery gravel.

**Tmt** Muckey Pass Tuff. Tan to reddish-brown, moderately to strongly welded, devitrified biotite quartz latite vitric-crystal tuff. Grades downward into a basal few meters of rhyodacitic crystal-rich vitrophyre and upward into pumice and crystal-rich rhyolite. 0-200 m thick.

**Ka** Granite aplite. Yellowish-tan to pinkish-tan, very fine-grained and homogeneous aplite. Occurs locally as veins in Kgd.

**Kgd** Hornblende-biotite granodiorite. Grayish white to gray and greenish gray, medium- to coarse-grained, equigranular to porphyritic, and locally foliated and linedated. Locally grades into quartz monzonite or quartz diorite.

**JKgd** Porphyritic quartz diorite. Grayish-green; plagioclase and hornblende phenocrysts in a fine-grained matrix. Slightly metamorphosed.

**Jd** Dacite porphyry. Pale greenish-gray, fine-grained dacite to quartz latite porphyry; composed of small euhedral plagioclase phenocrysts set in a fine-grained flinty matrix; small quartz phenocrysts occur locally.

**Jp** Phyllite. Dark gray-brown andalusite phyllite and slate.

**Jfs** Felsic schist, undifferentiated. Gray-white to pale bluish-gray, siliceous, fine-grained, dense and flinty flaser schist and banded flaser gneiss. Rocks in this group represent metamorphosed rhyodacitic/andesitic tuffs, welded tuffs, and breccia.

**Rmu** Mafic metavolcanic rocks, undifferentiated. Grayish-green to greenish-black, fine-grained, sparsely porphyritic, dense and hard metamorphosed mafic andesite flows and volcanic breccias; locally epidote-rich. Includes small, shallow intrusive masses of andesite porphyry and fine-grained diorite.

**Contact.** Long dashes where approximately located; short dashes where inferred; dotted where concealed.

**Fault.** Dashed where approximately located; dotted where concealed. Ball on downthrown side.

**Inclined** (Symbol)

**Vertical** (Symbol)

**Foliation.** Schistosity in metamorphic rocks; compaction foliation in ash-flow tuffs.

**Inclined** (Symbol)

**Vertical** (Symbol)

**Joints.** (Symbol)

**Dennis T. Trexler, 1977**

Portions modified from Rogers, D. K. (1975) Environmental geology of northern Carson City, Nevada: Univ. of Nevada, Reno, unpub. M.S. thesis and Kirkham, R. M. (1976) Environmental geology of western Carson City, Nevada area: Univ. of Nevada, Reno, unpub. M.S. thesis.

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Scale 1:24,000

0 0.5 1 KILOMETER

0 1000 METERS

0 0.5 1 MILE

0 2000 4000 FEET

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

Topographic base from U. S. Geological Survey Carson City 7 1/2' quadrangle, 1968

Cartography by Susan L. Nichols

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