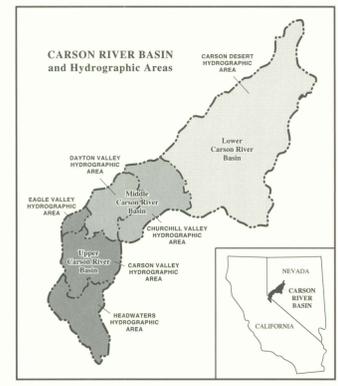


EXPLANATION

- Basin-fill deposits (Quaternary and Tertiary)—Unsorted to poorly sorted clay, silt, sand, and gravel, sediments of alluvial fans, pediments, and valley lowlands. Poorly sorted to sorted clay, silt, sand, and gravel of older flood plains at margins of Carson Valley, northern Carson Desert, and present flood plain of Carson River. Also includes playa deposits of Stagecoach and Churchill Valleys
- Basic volcanic rocks (Quaternary and Tertiary)—Flows of basalt, andesite, and trachyte. Can be interbedded with basin-fill deposits
- Silicic volcanic rocks (Quaternary and Tertiary)—Flows, flow breccias, and ash-fall; water-laid and welded tuffs of rhyolite, latite, and dacite
- Sedimentary rocks (Tertiary)—Claystone, siltstone, sandstone, conglomerate, and interbedded volcanic rocks. Exposed along valley margins and in mountain ranges; presumably composes deeper basin fill in valleys
- Intrusive igneous rocks (Tertiary and Jurassic)—Mostly granodiorite and quartz monzonite
- Basic igneous rocks (Jurassic)—Diorite, gabbro, and marine volcanic rocks
- Metasedimentary and metavolcanic rocks (Jurassic and Triassic)—Volcaniclastic sedimentary rocks and volcanic rocks, dominantly dacite and andesite flows, breccias, and tuffs; regionally metamorphosed
- Water-level contours—Dashed where approximately located. Shows altitude of water level. Contour interval, in feet, is variable. Datum is sea level. Water-level dates and sources: Carson Valley, 1982 (Maurer, 1986); Eagle Valley and Riverview area of Dayton Valley, 1964 (Arteaga, 1982); Stagecoach Valley area of Dayton Valley, early 1970's (Harrill and Preissler, 1994); Soda Lake-Fallon area of Carson Desert, late 1970's (Olmsted, 1985; Glancy, 1986); and Carson Plains and Churchill Valley, early 1980's (Schaefer and Whitney, 1992)
- Hydrographic basin boundary
- Hydrographic subbasin boundary
- Topographic divide between Carson Plains and Stagecoach Valley
- Sampling sites
 - Upland aquifers
 - Shallow aquifers
 - Principal aquifers—Does not include basalt aquifer in southern Carson Desert
 - Carson Desert basalt aquifer



Base from U.S. Geological Survey digital data 1:100,000, 1985
Local Mercator projection
Central meridian -119°10', latitude of true scale 39°20'



Geology modified from Johnson (1977), Stewart and others (1982), and Greene and others (1991)