



**References**

Harrill, J.R., Gates, J.S., and Thomas, J.M., 1988, Major ground-water flow systems in the Great Basin region of Nevada, Utah, and adjacent states: U.S. Geological Survey Hydrologic Investigations Atlas HA-694-C, 2 sheets, 1:1,000,000 scale.

Harrill, J.R., and Prudic, D.E., 1998, Aquifer systems in the Great Basin region of Nevada, Utah, and adjacent states—Summary Report: U.S. Geological Survey Professional Paper 1409-A, 66 p.

Base from U.S. Census Bureau, 2000 Hydrographic areas and flow systems from USGS 1:1,000,000-scale digital data Stream-gage locations from U.S. Geological Survey National Water Information System Albers Equal Area Conic Projection, Central Meridian -114°, Standard Parallels at 29.5° and 45.5°, Latitude of Origin 23° North American Datum 1983

**EXPLANATION**

**Area where groundwater is consumed by evapotranspiration**

**Groundwater flow systems**—Based on systems defined by Harrill and others (1988) and Harrill and Prudic (1998). Flow system number in parentheses

- Colorado System (34)
- Death Valley System (28)
- Diamond Valley System (27)
- Goshute Valley System (35)
- Grass Valley (25)
- Great Salt Lake Desert System (37)
- Great Salt Lake System (38)
- Humboldt System (7)
- Independence Valley System (32)
- Mesquite Valley (36)
- Monte Cristo Valley (23)
- Newark Valley System (29)
- Northern Big Smoky Valley (26)
- Railroad Valley System (30)
- Ruby Valley System (33)
- Sevier Lake System (39)
- South-Central Marshes (24)

**Area spring**—Average discharge, in acre-feet/year; <, less than

- 1 to < 500
- 500 to < 1,500
- 1,500 to < 2,500
- 2,500 to < 5,000
- 5,000 to < 10,000
- 10,000 to < 20,000
- 20,000 to < 30,000
- 30,000 to < 50,000

**Point spring**—Average discharge, in acre-feet/year; <, less than

- 1 to < 500
- 500 to < 1,500
- 1,500 to < 2,500
- 2,500 to < 5,000
- 5,000 to < 10,000
- 10,000 to < 20,000
- 20,000 to < 30,000
- 30,000 to < 50,000

**Great Basin carbonate and alluvial aquifer system (GBCAAS) study area boundary**

**Groundwater flow system boundary**—Name and number refer to groundwater flow system ID

**Hydrographic area boundary**—Name and number refer to hydrographic area ID

**U.S. Geological Survey stream gage**

0 25 50 75 100 Miles  
0 25 50 75 100 Kilometers

**Hydrographic Areas, Groundwater Flow Systems, and Locations of Groundwater Discharge to Springs, Streams, and Evapotranspiration in the Great Basin Carbonate and Alluvial Aquifer System Study Area**  
By Victor M. Heilwell and Lynette E. Brooks  
2011

Suggested citation:  
Heilwell, V.M., and Brooks, L.E., eds., 2011, Conceptual model of the Great Basin carbonate and alluvial aquifer system: U.S. Geological Survey Scientific Investigations Report 2010-5193, 188 p.