



GROUND WATER RESOURCES

- FRESH WATER GENERALLY PLENTIFUL**
- Map Unit 1: Large quantities of fresh water are available from marine sand and clay at depths ranging from 150 to 215 m.
- 2: Moderate to large quantities of fresh water are available from unconsolidated sand and sandstone at depths ranging from 3 to 75 m.
- FRESH WATER LOCALLY PLENTIFUL**
- 3: Small to large quantities of fresh water are available from volcanic ash, tuff, sand, and conglomerate at depths ranging from 10 to 300 m.
- 4: Small to moderate quantities of fresh water are available from fractured granites, cherty mudstones, gravels, and sands at depths ranging from 3 to 150 m.
- FRESH WATER SCARCE OR LACKING**
- 5: Meager to moderate quantities of fresh water are available from igneous and metamorphic rocks at depths from 10 to 300 m.
- 6: Meager to very small quantities of fresh water are available from igneous dikes and andesitic flows at depths ranging from 3 to 150 m.
- 7: Large quantities of brackish to saline water are available from unconsolidated sand and clay at depths ranging from 3 to 30 m. Locally fresh water lenses may be present above the brackish to saline ground water.
- W: Waterfall

Note: Map unit numbers refer to entries in table C-2.

QUANTITATIVE TERMS:

- Enormous = >400,000 liters per minute (L/min) (100,000 gallons per minute (gal/min)).
- Very large = >40,000 to 400,000 L/min (10,000 to 100,000 gal/min).
- Large = >4,000 to 40,000 L/min (1,000 to 10,000 gal/min).
- Moderate = >400 to 4,000 L/min (100 to 1,000 gal/min).
- Small = >40 to 400 L/min (10 to 100 gal/min).
- Very small = >4 to 40 L/min (1 to 10 gal/min).
- Meager = <4 L/min (1 gal/min).

QUALITATIVE TERMS:

- Fresh water = maximum total dissolved solids (TDS) <1,000 milligrams per liter (mg/L); maximum chlorides <600 mg/L; and maximum sulfates <300 mg/L.
- Brackish water = maximum TDS >1,000 mg/L, but <15,000 mg/L.
- Saline water = TDS >15,000 mg/L.

HARDNESS TERMS:

- Soft = 0 to 60 mg/L CaCO₃
- Moderately hard = 61 to 120 mg/L CaCO₃
- Hard = 121 to 180 mg/L CaCO₃
- Very hard = >180 mg/L CaCO₃

CONVERSION CHART:

To Convert	Multiply By	To Obtain
m	3.280	feet
L/min	0.264	gallons per minute
L/min	15.852	gallons per hour
L/min	380.517	gallons per day

Boundary representation is not necessarily authoritative.

Figure C-2. Ground Water Resources