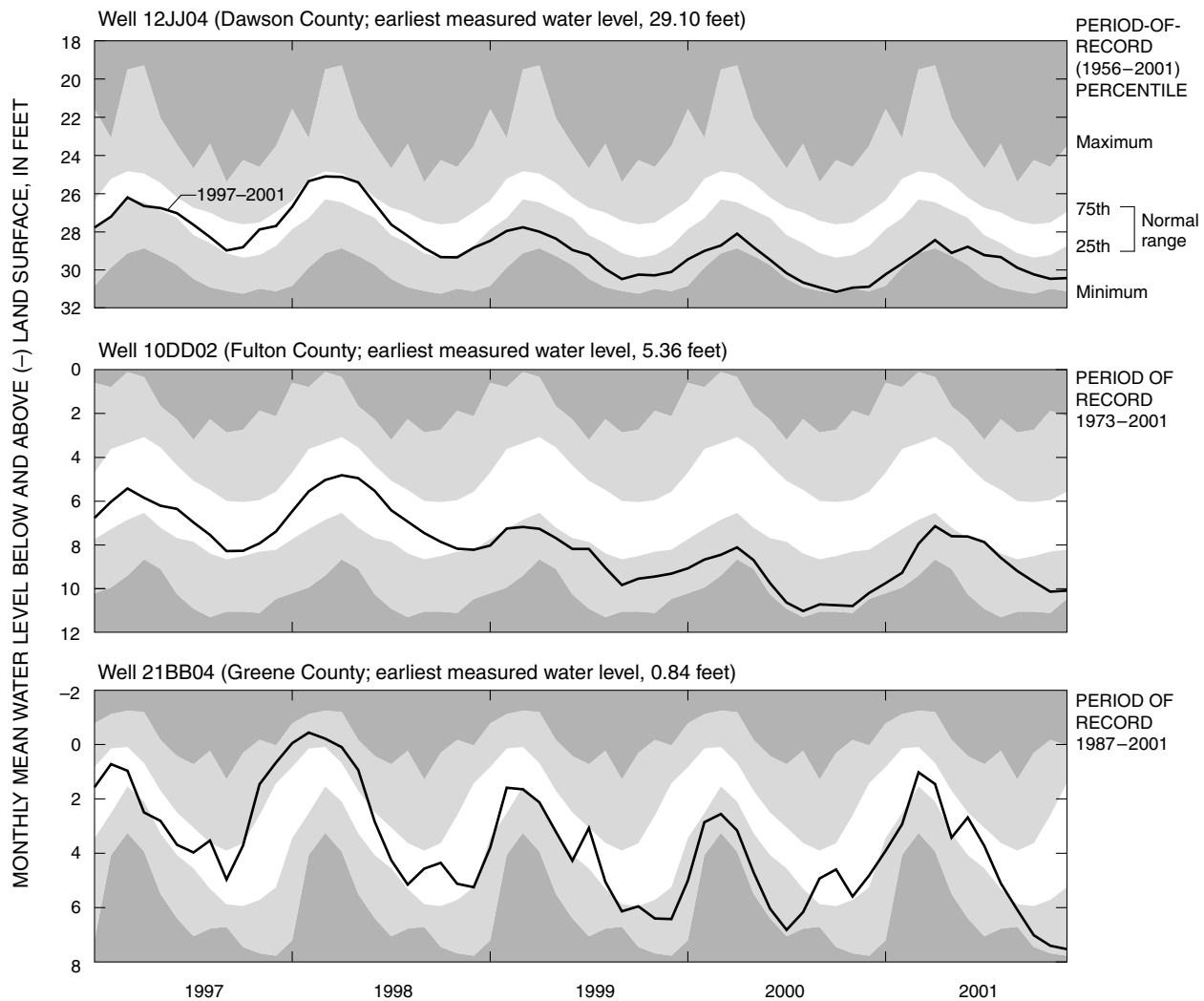


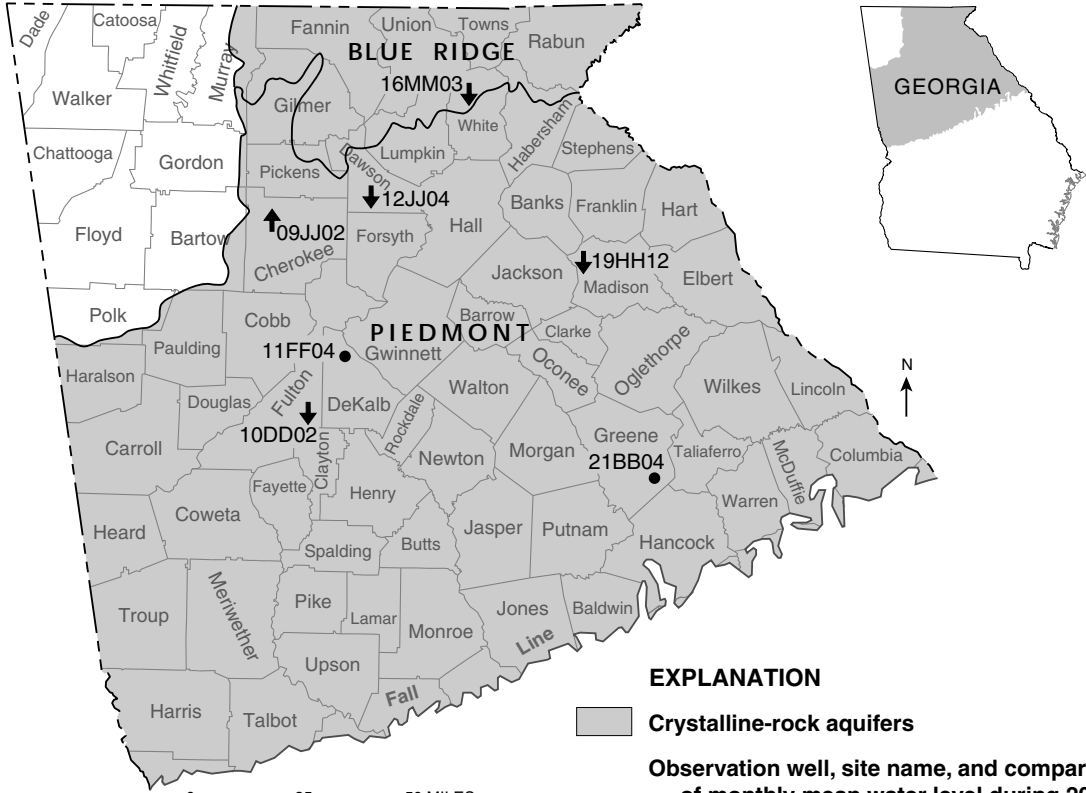
Crystalline-Rock Aquifers

Water levels in seven wells were measured in crystalline-rock aquifers in the Piedmont and Blue Ridge physiographic provinces of Georgia during 2001 (map and table, facing page). In this area, water is present in discontinuous joints and fractures and may be confined or unconfined. Crystalline-rock aquifers typically have local extent and can be highly affected by localized water use and climate. Water levels in four of the wells were below the normal range and in three of the wells were above or within the normal range during 2001.

Water-level hydrographs for three crystalline-rock aquifers wells (shown below) were chosen to illustrate monthly mean water levels during 1997–2001 and period-of-record

water-level statistics. Effects of drought are apparent in all three wells beginning in late 1998, and continuing through 2001. Water levels in the three wells declined during 1998–2000. Water levels in well 12JJ04 in Dawson County and well 10DD02 in Fulton County were within the normal range, but dropped below the normal range in late 1998, and continued to decline to near record lows by mid-2000. During 2001, these hydrographs show some water-level rise but water levels were still below normal for the year. The water level in well 21BB04 in Greene County also shows effects from drought beginning in late 1998 as well; however, the water level intermittently rose to the normal range throughout the year.





Base modified from U.S. Geological Survey
1:100,000-scale digital data

EXPLANATION

- Crystalline-rock aquifers
- Observation well, site name, and comparison of monthly mean water level during 2001 to period-of-record water level**
- ↑ 09JJ02 Above normal—Above 75th percentile water level for period of record
- 11FF04 Normal—Between 25th and 75th percentile water levels for period of record
- ↓ 19HH12 Below normal—Below 25th percentile water level for period of record

Site name	County	Other identifier
09JJ02	Cherokee	Reinhardt College, well A
12JJ04	Dawson	U.S. Geological Survey, test well 1
11FF04	DeKalb	U.S. Geological Survey, test well 5
10DD02	Fulton	U.S. Army, Fort McPherson
21BB04	Greene	Charles Veazey
19HH12	Madison	Meadowlake Estates
16MM03	White	Unicoi State Park, well 4