

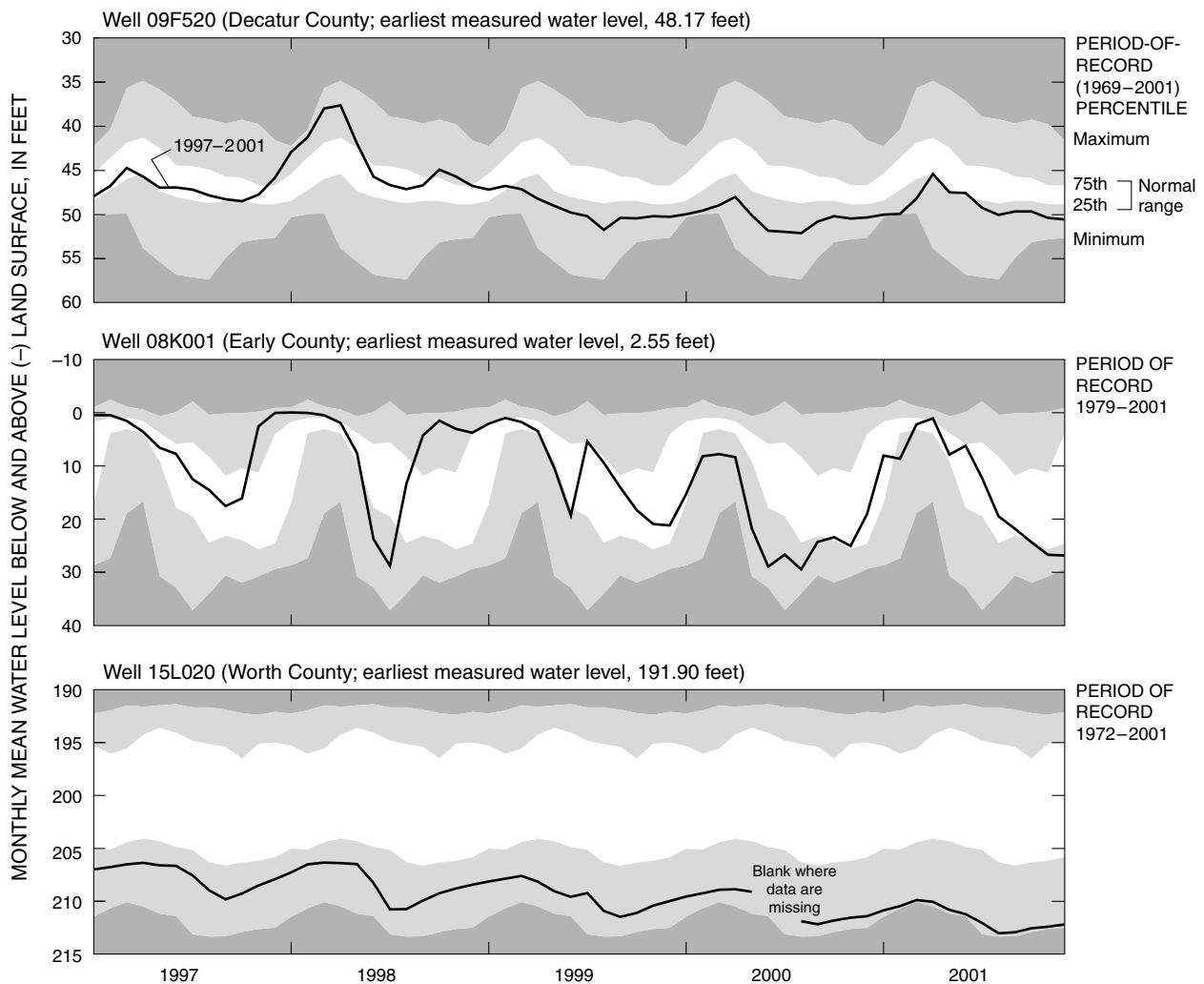
Upper Floridan Aquifer

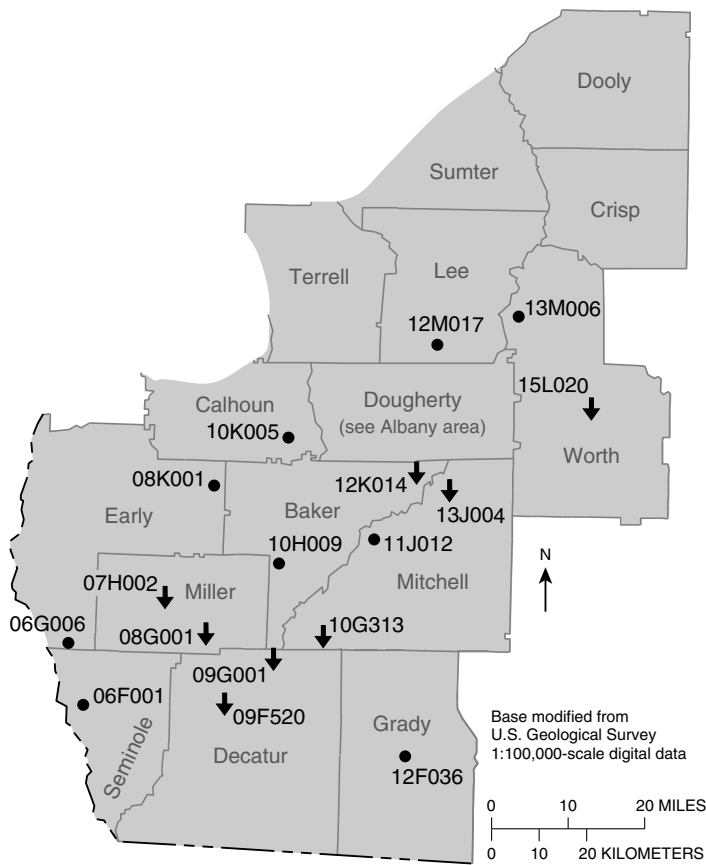
Southwestern area

Water levels in 17 wells were used to define ground-water conditions in the Upper Floridan aquifer in southwestern Georgia during 2001 (map, facing page). In this area, water in the Upper Floridan aquifer typically is confined; however, in areas where no sediments overlie the aquifer (typically to the north and west) water is unconfined. Water levels in 9 of the 17 wells were within the normal range during 2001. Water levels in the other eight wells in the area were below normal; these eight wells are located in areas where agricultural ground-water use is known to be prevalent.

Water-level hydrographs for three Upper Floridan aquifer wells in southwestern Georgia were chosen to illustrate monthly mean water levels during 1997–2001 and period-of-record water-level statistics. Drought effects

are apparent from ground-water levels beginning during mid-1998 and continuing through 2001. Water levels in wells 09F520 and 08K001 show pronounced seasonal responses to climatic effects and irrigation pumpage. The water level in well 09F520 in Decatur County was at or above normal during 1997–98 but dropped below normal during 1999 and remained below normal through 2001. The water level in well 08K001 in Early County was at or above normal during 1997 and the beginning of 1998 and dropped below normal at least part of every year since. The water level in well 15L020 in Worth County has shown a downward trend for most of the period of record. The rate of this downward trend increased during early 1999 and by 2001 the water level in this well reached a record low. Here the aquifer is more deeply buried and water levels are influenced primarily by pumping changes.





EXPLANATION

- Upper Floridan aquifer**
- Southwestern area**

Observation well, site name, and comparison of monthly mean water level during 2001 to period-of-record water level

- 11J012 Normal—Between 25th and 75th percentile water levels for period of record
- ↓ 10G313 Below normal—Below 25th percentile water level for period of record

Site name	County	Other identifier
10H009	Baker	Ichauway
12K014	Baker	Blue Springs, observation well
10K005	Calhoun	Bill Jordan, Ocala well
09F520	Decatur	Graham Bolton
09G001	Decatur	U.S. Geological Survey, test well DP-4
06G006	Early	Doug Harvey, test well 1
08K001	Early	Ike Newberry, test well 1
12F036	Grady	U.S. Geological Survey, Cairo
12M017	Lee	U.S. Geological Survey, test well 19
07H002	Miller	U.S. Geological Survey, test well DP-2
08G001	Miller	Viercocken
10G313	Mitchell	Harvey Meinders
11J012	Mitchell	U.S. Geological Survey, test well DP-11
13J004	Mitchell	Aurora Dairy
06F001	Seminole	Roddenbery Company Farms, test well 1
13M006	Worth	U.S. Geological Survey, test well DP-8
15L020	Worth	City of Sylvester