



Water-Data Report 2006

**350344090130000 Local number Ar:H-2**

Mississippi embayment aquifer system  
500-Foot Sand (Memphis Aquifer)  
Crittenden County, AR

LOCATION.--Lat 35°03'44", long 90°13'00" referenced to North American Datum of 1927, in NE ¼ SW ¼ SW ¼ sec.11, T.5 N., R.8 E., Crittenden County, AR, Hydrologic Unit 08020203, 0.7 mi east of Millers. Owner: Memphis Light, Gas, and Water Division, City of Memphis, and U.S. Geological Survey.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 502 ft, cased to 482 ft, screened 482 to 502 ft.

DATUM.--Land-surface datum is 211 ft above National Geodetic Vertical Datum of 1929. Measuring point: Inside top of shelter base plate, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year. Analog record from May 1983 to October 1995, periodic measurements thereafter. Real-time May 30, 2006.

GAGE.--Periodic measurements by USGS personnel and data collection platform--60-minute interval.

REMARKS.--Records fair. Missing records Aug. 14 to Aug. 17 (lost power due to bad battery). Well affected by pumpage in the Memphis, Tennessee area.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.28 ft below land-surface datum, May 30, 31, 1983; lowest, 33.78 ft below land-surface datum, Sept. 28, 2007.

Date	Water level	Date	Water level
Oct 21	30.98	May 17	27.87
Dec 20	30.97	24	28.10
Feb 2	28.05	Jun 28	29.98
28	29.07	Jul 5	29.93
Mar 28	27.97	31	31.72
May 17	27.85	Sep 11	33.59