



Water-Data Report 2010

352226089330102 Local number Fa:R-002

Mississippi embayment aquifer system
 Memphis Sand
 Fayette County, TN

LOCATION.--Lat 35°22'27", long 89°33'02" referenced to North American Datum of 1927, Fayette County, TN, Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.3 mi southeast of U.S. Highway 70, near Braden. Owner: Tennessee Division of Geology and U.S. Geological Survey.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 to 4 in., depth 365 ft, cased to 345 ft, screened 345 to 365 ft.

DATUM.--Land-surface datum is 317.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1949 to current year. Analog record October 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder from December 1970 to May 2006, digital record May 2006 to current year. Discontinued temporarily from March 13 to June 22, 2007 for steel shelter replacement. Discontinued continuous recording on Oct. 05, 2010; periodic tape down measurements will continue.

GAGE.--Periodic measurements by USGS personnel. Data collection platform and CR295 data logger with modem--60-minute intervals discontinued 10/5/10.

REMARKS.--Records good. No missing records for entire water year. Discontinued continuous recording on Oct. 05, 2010; periodic tape down measurements will continue.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 37.25 ft below land-surface datum, Mar. 10, 1952; lowest recorded, 42.78 ft below land-surface datum, Jan. 2, 2008; highest water level measured, 39.00 ft below land-surface datum, Mar. 3, 1998; lowest measured, 42.73 ft below land-surface datum, Sept. 26, 2007.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
 DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	41.56	41.39	41.26	41.06	40.64	40.58	40.29	40.03	39.93	41.28	41.62	41.43
10	41.59	41.27	41.22	41.15	40.67	40.31	40.32	40.15	40.04	41.39	41.37	41.31
15	41.50	41.20	41.22	40.99	40.53	40.50	40.33	40.01	40.09	41.15	41.65	41.37
20	41.53	41.27	41.06	40.80	40.56	40.41	40.17	39.87	40.44	41.03	41.64	41.43
25	41.43	41.21	40.91	40.73	40.54	40.31	39.94	39.94	40.94	41.45	41.67	41.43
Eom	41.34	41.22	41.04	40.87	40.49	40.29	40.07	39.94	41.00	41.19	41.52	41.37

WTR YR 20010 Highest 39.64 May 1, 2010 Lowest 41.86 Aug. 21, 2010

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