



Water-Data Report 2010

352226089330101 Local number Fa:R-001

Mississippi embayment aquifer system
Fort Pillow Sand of Wilcox Group

Fayette County, TN

LOCATION.--Lat 35°22'27", long 89°33'03" 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 1,025 ft, cased to 1,008 ft, screened 1,008 to 1,025 ft.

DATUM.--Land-surface datum is 317.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1949 to current year. Analog record August 1949 to December 1970, periodic tape down measurements or monthly maximum-minimum recorder from December 1970 to May 2006, digital record May 2006 to current year. Discontinued temporarily from Mar. 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. Water level affected by pumpage for municipal and industrial supply in the Memphis area. Discontinued continuous recording on Oct. 05, 2010; periodic tape down measurements will continue.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 64.89 ft below land-surface datum, Aug. 31, 1949; lowest recorded, 98.11 ft below land-surface datum, Oct. 05, 2008; highest water level measured, 73.61 ft below land-surface datum, Apr. 28, 1976; lowest measured, 98.04 ft below land-surface datum, Sept. 30, 2008.

**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	94.84	95.10	94.91	94.46	93.59	93.38	92.80	92.20	92.07	92.33	92.46	93.12
10	94.92	95.05	94.85	94.48	93.67	93.07	92.79	92.38	92.15	92.41	92.58	93.09
15	94.84	95.01	94.86	94.26	93.54	93.17	92.76	92.24	92.14	92.21	92.67	93.25
20	94.98	95.07	94.68	93.96	93.47	93.00	92.57	92.10	92.19	92.36	92.78	93.34
25	94.94	94.99	94.45	93.88	93.42	92.88	92.27	92.16	92.24	92.44	92.92	93.42
Eom	94.95	94.96	94.51	93.88	93.34	92.83	92.33	92.12	92.31	92.32	93.05	93.44

WTR YR 2010 Highest 91.89 May 1, 2010 Lowest 95.10 Nov. 4, 2009

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