

**GROUND-WATER LEVELS IN  
SOUTH CAROLINA, 2006–2010**

STATE OF SOUTH CAROLINA  
DEPARTMENT OF NATURAL  
RESOURCES

LAND, WATER AND  
CONSERVATION DIVISION



WATER RESOURCES  
REPORT 50  
2012



# **GROUND-WATER LEVELS IN SOUTH CAROLINA, 2006–2010**

by

**Scott V. Harder, Constance E. Gawne, Joseph A. Gellici, and Andrew Wachob**

**STATE OF SOUTH CAROLINA  
DEPARTMENT OF NATURAL RESOURCES**

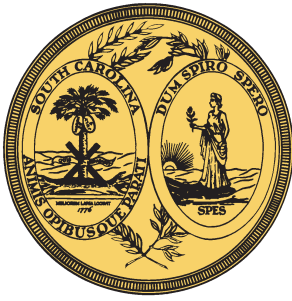


**LAND, WATER AND CONSERVATION DIVISION**

**WATER RESOURCES REPORT 50**

**2012**

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## PLATE

Map showing locations of DNR observation wells, 2006–2010



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## ABSTRACT

Ground-water levels measured from 109 wells in South Carolina from 2006 through 2010 are statistically analyzed, tabulated, and presented as hydrographs. Five wells are located in the Blue Ridge Province, 13 in the Piedmont, and 91 in the Coastal Plain. Water levels in 63 of the wells were measured hourly with automated data recorders; most of the remaining wells were measured on a bimonthly schedule using hand-held electric measuring tapes. All of the wells are maintained by the South Carolina Department of Natural Resources for water-resource assessments.

Water levels fluctuated from 1 to 27 feet over the five-year period. Many wells had water levels that were at all-time lows owing to drought conditions that persisted for several years. Most lows occurred during late summer and early fall of 2007 and 2008. Water levels in the Middendorf aquifer near Florence rose by about 12 feet over the last five years, as the city continues to supplement its ground-water supplies with surface water. Long-term downward trends are observed in the Middendorf aquifer in Allendale, Aiken, Barnwell, and Lexington Counties, and in the Lake City area of Florence County. Downward trends are also observed in the Black Creek and Tertiary sand aquifers in Allendale and Barnwell Counties. Water levels in the Floridan aquifer near Edisto Beach are declining.

## INTRODUCTION

The South Carolina Department of Natural Resources (DNR) routinely collects ground-water level data for water-resource assessments and for management and planning purposes. These data are used to identify short- and long-term changes in ground-water levels and storage due to changes in withdrawals, recharge rates, and climatic conditions; to calibrate ground-water flow models; and to determine regional hydraulic gradients and ground-water flow rates and directions of the major aquifers. The base ground-water monitoring network currently includes 57 monitoring sites and 109 wells. Water levels of 63 wells are measured hourly with automated data recorders (ADRs); the remaining wells are measured periodically, typically on a bimonthly basis, using an electric measuring tape. Most monitoring wells have been measured since the mid-to-late 1990s, although a number of wells existed before then, one dating back to 1955. Well locations, county well numbers, and the aquifers that are being measured are shown on the Plate. Table 1 lists the wells by county and includes county well numbers, DNR grid numbers, and aquifer names.

## PREVIOUS WATER-DATA REPORTS

This is the third in a series of reports documenting ground-water level data collected from the DNR monitoring network. Harwell and others (2004) documents water-level data collected from 56 wells during the period from 2000 through 2001. Specific conductance data from two wells in Charleston and Colleton Counties are included in that report. Agerton and others (2007) contains water-level

data collected from 69 wells during the period from 2000 through 2005. Specific conductance data from one well at Edisto Island are also reported. Other ground-water level compilations include intermittent and periodic water-level measurements of 16 Piedmont province wells and 266 Coastal Plain province wells by Waters (2003). That report represents 282 hydrographs and is the most extensive compilation of historical South Carolina ground-water level data to date. Hydrograph records range from 6 to 50 years, and about one-third of the record sets span periods greater than 20 years. Gellici and others (2004) published selected ground-water data illustrating the effects of the 1998–2002 drought.

DNR also publishes a potentiometric map series for the major Coastal Plain aquifers. Potentiometric levels for the Middendorf aquifer in 1996, 2001, and 2004 were presented by Hockensmith and Waters (1998), Hockensmith (2003a), and Hockensmith (2008a), respectively. Potentiometric levels for the Black Creek aquifer in 1995, 2001, and 2004 were presented by Hockensmith (1997), Hockensmith (2003b), and Hockensmith (2008b), respectively. Seasonal potentiometric maps for the Floridan aquifer for the period 1991–1993 are documented in Gawne (1994), and Floridan aquifer levels for 1998 and 2004 were published by Hockensmith (2001) and Hockensmith (2009), respectively.

## WELL-NUMBERING SYSTEMS

Wells are identified by a county well number and also by a location-grid number. The county well number consists of a county-name abbreviation and a sequential number that is assigned by the DNR in coordination with the

**Table 1. South Carolina Department of Natural Resources observation wells, 2006–2010**

County	Well number	Grid number	Well location	Aquifer	Page
Aiken	AIK-0817	40V-s2	New Ellenton, 4 miles WSW (County Road 146)	Middendorf	62
Aiken	AIK-0818	40V-s3	New Ellenton, 4 miles WSW (County Road 146)	Middendorf	63
Aiken	AIK-0824	40V-s5	New Ellenton, 4 miles WSW (County Road 146)	Black Creek	92
Aiken	AIK-0825	40V-s6	New Ellenton, 4 miles WSW (County Road 146)	Black Creek	93
Aiken	AIK-0826	36U-o1	Windsor, 4 miles NNE (Aiken State Park)	Middendorf	64
Aiken	AIK-0845	36U-o2	Windsor, 4 miles NNE (Aiken State Park)	Middendorf	65
Aiken	AIK-0846	36U-o3	Windsor, 4 miles NNE (Aiken State Park)	Black Creek	94
Aiken	AIK-0847	36U-o4	Windsor, 4 miles NNE (Aiken State Park)	Black Creek	95
Aiken	AIK-0848	36U-o5	Windsor, 4 miles NNE (Aiken State Park)	Black Creek	96
Aiken	AIK-0849	36U-o6	Windsor, 4 miles NNE (Aiken State Park)	Black Creek	97
Aiken	AIK-0902	40W-q1	Jackson, 1 mile NW (S.C. Highway 125)	Middendorf	66
Aiken	AIK-2378	40W-q2	Jackson, 1 mile NW (S.C. Highway 125)	Black Creek	98
Aiken	AIK-2379	40W-q3	Jackson, 1 mile NW (S.C. Highway 125)	Black Creek	99
Aiken	AIK-2380	40W-q4	Jackson, 1 mile NW (S.C. Highway 125)	Middendorf	67
Allendale	ALL-0347	35AA-q2	Allendale, 3.5 miles W (County Road 52)	Middendorf	68
Allendale	ALL-0348	35AA-q3	Allendale, 3.5 miles W (County Road 52)	Cape Fear	58
Allendale	ALL-0358	37Z-t3	Millet, 3 miles NE (County Road 24)	Middendorf	69
Allendale	ALL-0363	37Z-t4	Millet, 3 miles NE (County Road 24)	Floridan	128
Allendale	ALL-0364	37Z-t5	Millet, 3 miles NE (County Road 24)	Floridan	129
Allendale	ALL-0365	37Z-t6	Millet, 3 miles NE (County Road 24)	Tertiary sand	116
Allendale	ALL-0366	37Z-t7	Millet, 3 miles NE (County Road 24)	Tertiary sand	117
Allendale	ALL-0367	37Z-t8	Millet, 3 miles NE (County Road 24)	Black Creek	100
Allendale	ALL-0368	37Z-t9	Millet, 3 miles NE (County Road 24)	Black Creek	101
Allendale	ALL-0369	37Z-t10	Millet, 3 miles NE (County Road 24)	Black Creek	102
Allendale	ALL-0370	37Z-t11	Millet, 3 miles NE (County Road 24)	Middendorf	70
Allendale	ALL-0371	35AA-q4	Allendale, 3.5 miles W (County Road 52)	Floridan	130
Allendale	ALL-0372	35AA-q5	Allendale, 3.5 miles W (County Road 52)	Floridan	131
Allendale	ALL-0373	35AA-q6	Allendale, 3.5 miles W (County Road 52)	Floridan	132
Allendale	ALL-0375	35AA-q8	Allendale, 3.5 miles W (County Road 52)	Tertiary sand	118
Allendale	ALL-0376	35AA-q9	Allendale, 3.5 miles W (County Road 52)	Black Creek	103
Allendale	ALL-0377	35AA-q10	Allendale, 3.5 miles W (County Road 52)	Middendorf	71
Anderson	AND-0326	48H-n2	Williamston (city water treatment plant)	Crystalline rock	36
Barnwell	BRN-0349	34Y-x1	Barnwell, 4 miles SE (S.C. Highway 300)	Middendorf	72
Barnwell	BRN-0350	34Y-x2	Barnwell, 4 miles SE (S.C. Highway 300)	Floridan	133
Barnwell	BRN-0351	34Y-x3	Barnwell, 4 miles SE (S.C. Highway 300)	Floridan	134
Barnwell	BRN-0352	34Y-x4	Barnwell, 4 miles SE (S.C. Highway 300)	Tertiary sand	119
Barnwell	BRN-0353	34Y-x5	Barnwell, 4 miles SE (S.C. Highway 300)	Black Creek	104
Barnwell	BRN-0354	34Y-x6	Barnwell, 4 miles SE (S.C. Highway 300)	Tertiary sand	120
Barnwell	BRN-0355	34Y-x7	Barnwell, 4 miles SE (S.C. Highway 300)	Black Creek	105
Barnwell	BRN-0356	34Y-x8	Barnwell, 4 miles SE (S.C. Highway 300)	Middendorf	73
Barnwell	BRN-0358	35X-e2	Williston, 3.5 miles S	Middendorf	74



**Table 1. South Carolina Department of Natural Resources observation wells, 2006–2010 (continued)**

County	Well number	Grid number	Well location	Aquifer	Page
Barnwell	BRN-0359	35X-e3	Williston, 3.5 miles S	Tertiary sand	121
Barnwell	BRN-0360	35X-e4	Williston, 3.5 miles S	Tertiary sand	122
Barnwell	BRN-0365	35X-e5	Williston, 3.5 miles S	Black Creek	106
Barnwell	BRN-0366	35X-e6	Williston, 3.5 miles S	Middendorf	75
Barnwell	BRN-0367	35X-e7	Williston, 3.5 miles S	Tertiary sand	123
Barnwell	BRN-0368	35X-e8	Williston, 3.5 miles S	Black Creek	107
Beaufort	BFT-0101	27KK-y1	Hilton Head Island (U.S. Highway 278)	Floridan	135
Beaufort	BFT-0429	28JJ-y1	Bluffton, 2 miles NE	Floridan	136
Beaufort	BFT-1809	27JJ-q2	Hilton Head Island (Hilton Head Plantation)	Floridan	137
Beaufort	BFT-1813	27KK-j5	Hilton Head Island (Port Royal Plantation)	Floridan	138
Beaufort	BFT-1814	27KK-j6	Hilton Head Island (Port Royal Plantation)	Floridan	139
Beaufort	BFT-1820	27KK-o10	Hilton Head Island (Indigo Run Plantation)	Floridan	140
Beaufort	BFT-1822	27KK-o11	Hilton Head Island (Indigo Run Plantation)	Floridan	141
Beaufort	BFT-1845	28JJ-p5	Bluffton, 2.5 miles NE (Waddell Center)	Floridan	142
Beaufort	BFT-1846	28JJ-p6	Bluffton, 2.5 miles NE (Waddell Center)	Floridan	143
Beaufort	BFT-2055	27KK-r14	Hilton Head Island (near Singleton Beach)	Middendorf	76
Berkeley	BRK-0644	18W-b2	St. Stephen (St. Stephen Middle School)	Floridan	144
Charleston	CHN-0044	19DD-o1	Charleston (USDA site, U.S. Highway 17)	Floridan	145
Charleston	CHN-0484	22GG-d1	Edisto Beach, 5 miles N (Blue House Plantation)	Floridan	146
Charleston	CHN-0803	11Z-b1	McClellanville, 7 miles NE (Santee Coastal Res.)	Floridan	147
Cherokee	CRK-0074	36B-b16	Blacksburg	Crystalline rock	37
Chesterfield	CTF-0081	17H-f1	Cheraw, 2.5 miles S (Cheraw State Park)	Crystalline rock	38
Colleton	COL-0016	26CC-f1	Walterboro (Moore Street)	Floridan	148
Colleton	COL-0030	27CC-j1	Walterboro (Kline Street)	Black Creek	108
Colleton	COL-0097	26AA-k1	Walterboro, 10 miles S (S.C. Highway 61)	Floridan	149
Colleton	COL-0301	22GG-w4	Edisto Beach (Edisto Beach State Park)	Floridan	150
Darlington	DAR-0228	17J-m1	Society Hill, 3 miles SSW (Lake Darpo)	Middendorf	77
Dillon	DIL-0121	10L-b1	Dillon, 6.5 miles SE (Little Pee Dee State Park)	Middendorf	78
Florence	FLO-0128	13M-p3	Florence, 9.5 miles E (E.I. DuPont de Nemours)	Middendorf	79
Florence	FLO-0274	16Q-s1	Lake City (Lake City Airport)	Middendorf	80
Florence	FLO-0276	16Q-s2	Lake City (Lake City Airport)	Black Creek	109
Greenville	GRV-0712	50B-r1	Marietta, 8 miles NW (Ceasars Head State Park)	Crystalline rock	39
Greenville	GRV-2162	46E-a2	Greer (East Riverside Park)	Crystalline rock	40
Greenville	GRV-2230	48D-v2	Travelers Rest, 1.5 miles S (Furman University)	Shallow	52
Greenville	GRV-2543	49B-o2	Marietta, 7 miles NNW (Jones Gap State Park)	Crystalline rock	41
Greenville	GRV-3333	48B-d3	Marietta, 7.5 miles N	Crystalline rock	42
Greenville	GRV-3335	49B-o4	Marietta, 7 miles NNW (Jones Gap State Park)	Crystalline rock	43
Greenville	GRV-3336	49B-o5	Marietta, 7 miles NNW (Jones Gap State Park)	Shallow	53
Greenville	GRV-3341	45B-d1	Landrum, 1.5 miles WSW	Shallow	54
Greenville	GRV-3342	45B-d2	Landrum, 1.5 miles WSW	Crystalline rock	44
Greenville	GRV-3533	48D-v9	Travelers Rest, 1.5 miles S (Furman University)	Crystalline rock	45

**Table 1. South Carolina Department of Natural Resources observation wells, 2006–2010 (continued)**

County	Well number	Grid number	Well location	Aquifer	Page
Hampton	HAM-0050	33EE-v1	Furman (U.S. Highway 601)	Tertiary sand	124
Hampton	HAM-0083	29EE-s1	Yemassee	Floridan	151
Horry	HOR-0290	6S-v2	Myrtle Beach (Blizzard Street & Deville Street)	Black Creek	110
Horry	HOR-0309	6R-r1	Conway, 2 miles SE (U.S. Highway 501)	Black Creek	111
Horry	HOR-0973	5S-f1	Myrtle Beach (surface water treatment plant)	Middendorf	81
Jasper	JAS-0425	30FF-o1	Ridgeland, 9 miles NNW (U.S. Highway 278)	Floridan	152
Jasper	JAS-0426	30FF-o2	Ridgeland, 9 miles NNW (U.S. Highway 278)	Middendorf	82
Jasper	JAS-0492	30FF-o3	Ridgeland, 9 miles NNW (U.S. Highway 278)	Floridan	153
Kershaw	KER-0263	24I-i1	Bethune, 10.5 miles NW (Mt. Pisgah Elem. Sch.)	Crystalline rock	46
Laurens	LRN-1705	43J-c2	Laurens (Joe R. Adair Outdoor Education Center)	Shallow	55
Laurens	LRN-1706	44I-b1	Gray Court, 2 miles S (former fire tower site)	Crystalline rock	47
Laurens	LRN-1707	43K-k1	Mountville, 1 mile NW (former fire tower site)	Crystalline rock	48
Lee	LEE-0075	21M-k1	Bishopville, 3.5 miles ESE (Lee State Park)	Middendorf	83
Lexington	LEX-0844	32S-b4	Swansea (Swansea High Sch. Freshman Acad.)	Middendorf	84
Marion	MRN-0077	10Q-p1	Brittons Neck, 3 miles S (former fire tower site)	Black Creek	112
Marion	MRN-0078	10Q-p2	Brittons Neck, 3 miles S (former fire tower site)	Cape Fear	59
Marlboro	MLB-0112	15H-l2	Bennettsville (Marlboro Co. Rec. Dept. building)	Middendorf	85
Orangeburg	ORG-0393	29U-v1	Orangeburg (Clark Middle School)	Black Creek	113
Orangeburg	ORG-0430	29U-v2	Orangeburg (Clark Middle School)	Tertiary sand	125
Orangeburg	ORG-0431	29U-v3	Orangeburg (Clark Middle School)	Floridan	154
Richland	RIC-0543	27Q-m1	Eastover (Webber Elementary School)	Middendorf	86
Richland	RIC-0585	29P-t4	Columbia, 6 miles ESE (Horrel Hill Elem Sch.)	Middendorf	87
Saluda	SAL-0069	39N-u3	Saluda, 7.5 miles NE (Hollywood Elem. Sch.)	Crystalline rock	49
Sumter	SUM-0355	23O-y3	Dalzell (Ebenezer Elementary School)	Shallow	56
Sumter	SUM-0488	24Q-l1	Sumter, 3.5 miles SW (Manchester State Forest)	Middendorf	88
Sumter	SUM-0492	19P-q3	Olanta, 2.5 miles WNW (Woods Bay State Park)	Middendorf	89
Sumter	SUM-0497	24Q-l2	Sumter, 3.5 miles SW (Manchester State Forest)	Black Creek	114

USGS. For example, HAM-0050 represents the fiftieth well inventoried by the DNR in Hampton County.

The DNR also assigns a South Carolina Grid System number to each inventoried well, based on the latitude and longitude of the well. Each major grid division corresponds to 5 minutes of latitude and 5 minutes of longitude. The longitude is signified by a number (e.g., 33) and the latitude is signified by one or two upper-case letters (e.g., EE). To further define the well location, each 5-minute grid is divided into twenty-five 1-minute latitude-longitude grids, which are represented using the lower-case letters a through y. Within a 1-minute grid, wells are numbered sequentially as they are inventoried. Thus, HAM-0050, which is located in southwestern Hampton County, has grid number 33EE-v1 (Fig. 1).

### DATA COLLECTION

Ground-water level data are presented in feet above or below land surface. Measurements and sensor settings are made relative to a specified measurement point, and the methods used generally follow those of U.S. Geological Survey (USGS) Stand Alone Procedure Documents (Table 2). Most of the land-surface and measuring-point

elevations were surveyed from USGS or South Carolina Geodetic Survey benchmarks and are reported to the nearest tenth or hundredth of a foot using the National Geodetic Vertical Datum of 1929 (NGVD29). Elevations at the remaining sites were taken from USGS topographic maps and estimated to the nearest foot, and are considered accurate to one-half the map contour interval. Well locations were determined with the Global Positioning System (GPS) using the North American Datum of 1983 (NAD83).

### Manual Measurements

Tape measurements typically are made with electric tapes, which are capable of an accuracy of 0.01 ft (feet). However, visibility, thermal expansion and contraction, and tape sinuosity diminish measurement accuracy in field conditions, and accuracies, therefore, are assumed to be no better than 0.05 ft in practice. Less accuracy is likely where depth to water is greater than 100 ft.

Flowing artesian wells are manually measured with 0–30, 0–60, or 0–100 psi (pounds per square inch) range Bourdon-type test gages. The gages are calibrated bi-annually by a commercial testing laboratory and are rated

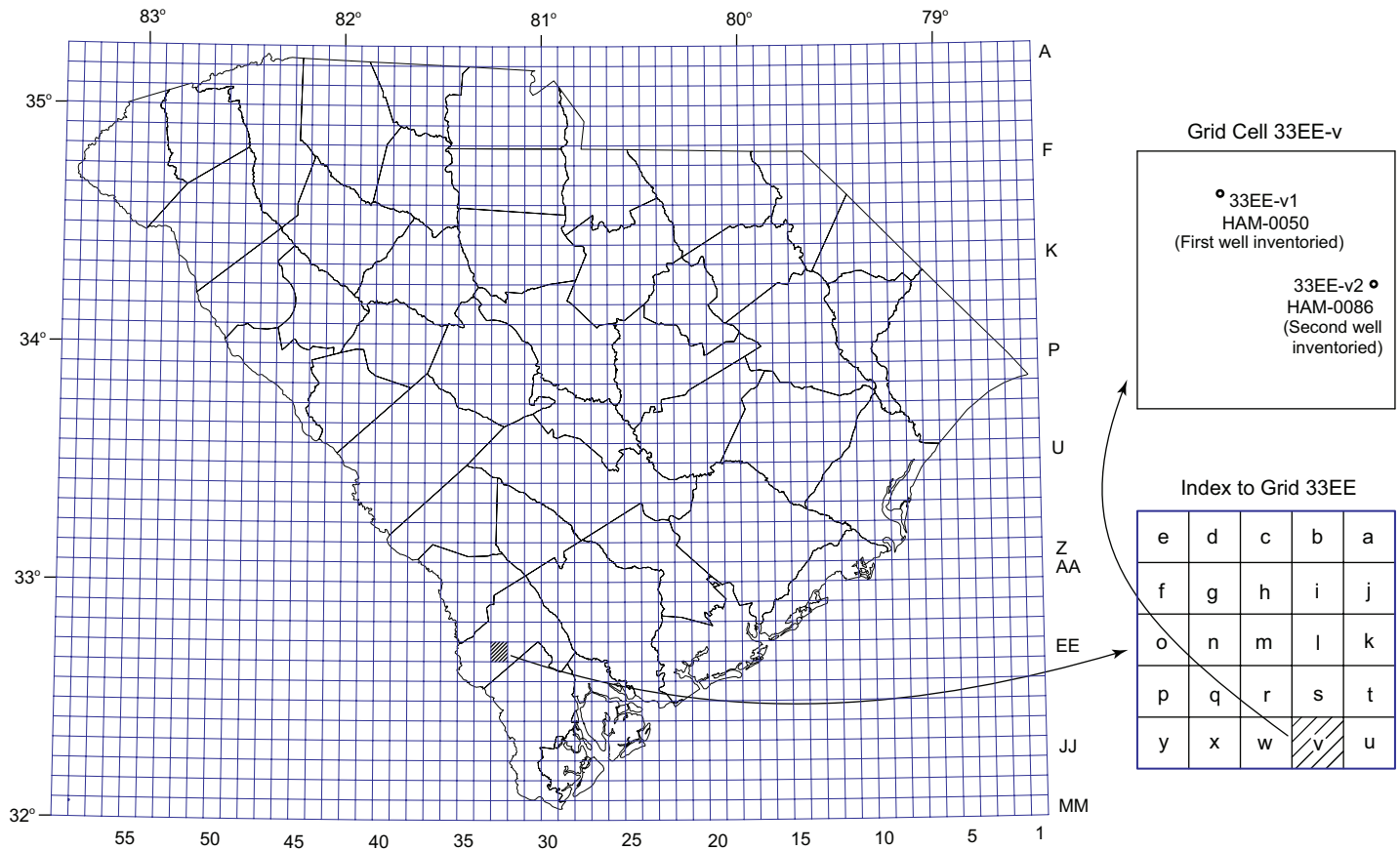


Figure 1. Illustration of South Carolina Department of Natural Resources well-numbering system.

**Table 2. USGS Stand Alone Documents applied to the DNR monitoring program**

Document number	Title
GWPD-1	Water-level measurement using graduated steel tape
GWPD-3	Establishing a permanent measuring point
GWPD-4	Water-level measurement using an electric tape
GWPD-5	Locating a well
GWPD-12	Water-level measurement in a flowing well

to 0.25 percent of their respective measurement ranges. In practice, accuracy will be diminished by errors from gage-zero adjustment, parallax, readings near the extremes of gage range, and mechanical degradation subsequent to calibration. Table 3 summarizes the manufacturer-rated accuracies and the authors' assumptions for measurement.

### Automated Measurements

Water-level sensors used for automated monitoring stations include shaft encoders and pressure transducers whose readings are calibrated to manual measurements. Shaft encoders measure depth to water and consist of a pulley that is optically read or that controls a potentiometer, and a cable, float, and counterweight assembly. They have a rated accuracy and resolution of 0.01 ft. The sensor reading is set in reference to a manual tape measurement; however, well plumb, casing joints, and cable disturbances can affect subsequent readings. Measurements within 0.10 ft of a concurrent manual measurement are accepted, along with the corresponding records. The records are excluded if successive sensor and manual measurements differ by more than 0.10 ft and if there is no clear means to adjust the record for cable slip, float snags, or other error.

Pressure transducers measure the height of water above a semiconductor strain gage: electrical resistance to an input voltage and, therefore, voltage output changes as varying water pressure deforms the crystalline lattice of the gage's silicon diaphragm (piezoresistive effect). There is a near-linear correlation between the sensor's pressure range and output-voltage range, and water depth is computed from the voltage measurement. Historically, the transducers used by DNR had pressure ranges from 0–16 ft (0–5 meters) or from 0–33 ft (0–10 meters), and had accuracies and resolutions of 1 percent and 0.1 per-

cent of full scale, respectively. The sums of the transducer measurement (depth above probe) and corresponding taped measurement (depth to water) recorded at each site visit have been compared to determine transducer performance. Where the sum of measurements was found to differ by 0.2 ft from previous measurements, a potential instrument fault may have existed, but no record correction was applied. Where the specifications were exceeded repeatedly, either instruments were recalibrated or instrument failure was confirmed. If failure was confirmed, the transducer was replaced and the associated records were excluded from the hydrograph.

Over the last five years most of these instruments have been replaced with new transducers that have a pressure range from 0–66 ft (0–20 meters) and accuracies and resolutions of less than 0.07 ft and 0.01 ft, respectively. These transducers are not vented to the atmosphere and hence require barometric compensation to determine water level. Hourly barometric data are collected at strategic sites for correction purposes (see Plate). Where the sums of the barometrically compensated transducer measurement and the corresponding taped measurement recorded at each site (tapedown) are greater than 0.20 ft, a potential instrument fault may exist. Where this specification is exceeded repeatedly, instrument failure is confirmed and the transducer is replaced. A few replacement transducers along the coast have a pressure range of 0–692 ft (0–210 meters), are vented to the atmosphere, and have accuracies and resolutions of 0.70 ft and 0.03 ft, respectively. These transducers are replaced if the sum of the transducer measurement and the tapedown are consistently greater than 0.75 ft. Where the specifications were exceeded repeatedly, either instruments were recalibrated or instrument failure was confirmed. Transducers are replaced and records are purged from the database if instrument failure is confirmed.

**Table 3. Ranges and accuracies of 0.25-percent precision test gages used by DNR**

Gage range (psi)	Rated gage accuracy (psi)	Rated gage accuracy (ft)	Measurement accuracy (ft)
0 – 30	0.075	0.17	0.4
0 – 60	0.150	0.34	0.5
0 – 100	0.250	0.57	0.8

## Data Storage and Quality

Logged measurements are stored in both raw-data and processed-data tables. The raw-data table contains uncorrected hourly measurements and reflects the readings and the performance of various sensors as they were originally stored in data loggers. Raw data are stored mainly “as is” and are archived at DNR for insight into hardware conditions and for quality assurance. Processed-data tables are corrected for barometric pressure, where appropriate, and are winnowed of measurement anomalies and hardware failures. The winnowed data principally consist of spikes caused by lightning or electromagnetic interference, and of measurements characteristic of hardware faults.

## STATISTICAL DATA

Statistics are presented for each well equipped with an ADR and include a graph of the average-daily water level (in feet below land surface) recorded over the five-year period from 2006 through 2010, and a corresponding table of monthly and yearly minimums (highest water levels), maximums (lowest water levels), and means (Appendices A–G). Average daily water level is calculated and plotted for each day having 17 or more hourly measurements. Monthly minimums, maximums, and means are calculated for each month having 14 or fewer days of missing record, and the yearly statistics include the minimum, maximum, and mean water level for each calendar year having 10 or more months of record. No statistics are calculated for wells that are manually measured owing to the relatively small number of data values available for such wells. Data presented in this report and data from previous years are available on the DNR website at <http://www.dnr.sc.gov/water/hydro/groundwater/index.html>.

## HYDROGEOLOGIC FRAMEWORK

The hydrogeologic framework used in this report is that of Aucott and others (1987). Aucott divided the Coastal Plain sedimentary sequence into six aquifers, which in ascending order are: Cape Fear, Middendorf, Black Creek, Tertiary sand, Floridan, and surficial (described below). In 1995, Aadland and others presented a detailed hydrogeologic characterization of the Coastal Plain sequence at the Savannah River Site (SRS) and surrounding area that resulted in a revised hydrogeologic framework and a new hydrostratigraphic nomenclature for west-central South Carolina (Aadland and others, 1995). Aquifers and confining units were named after local geographic features near type-well localities and the previous aquifer names, which were based on geologic formations, were abandoned at SRS. This revised framework and new nomenclature were extended across the rest of the Coastal Plain in the report Groundwater Avail-

ability in the Atlantic Coastal Plain of North and South Carolina (Campbell and Coes, 2010) in a chapter entitled Hydrogeologic Framework of the Atlantic Coastal Plain, North and South Carolina (Gellici and Lautier, 2010). For this report, the names and framework of Aucott and others (1987) continue to be used, but wells are also assigned to aquifers using the new framework and nomenclature described by Gellici and Lautier. A comparison chart between the two nomenclatures is provided in Figure 2.

## TRENDS IN WATER LEVELS

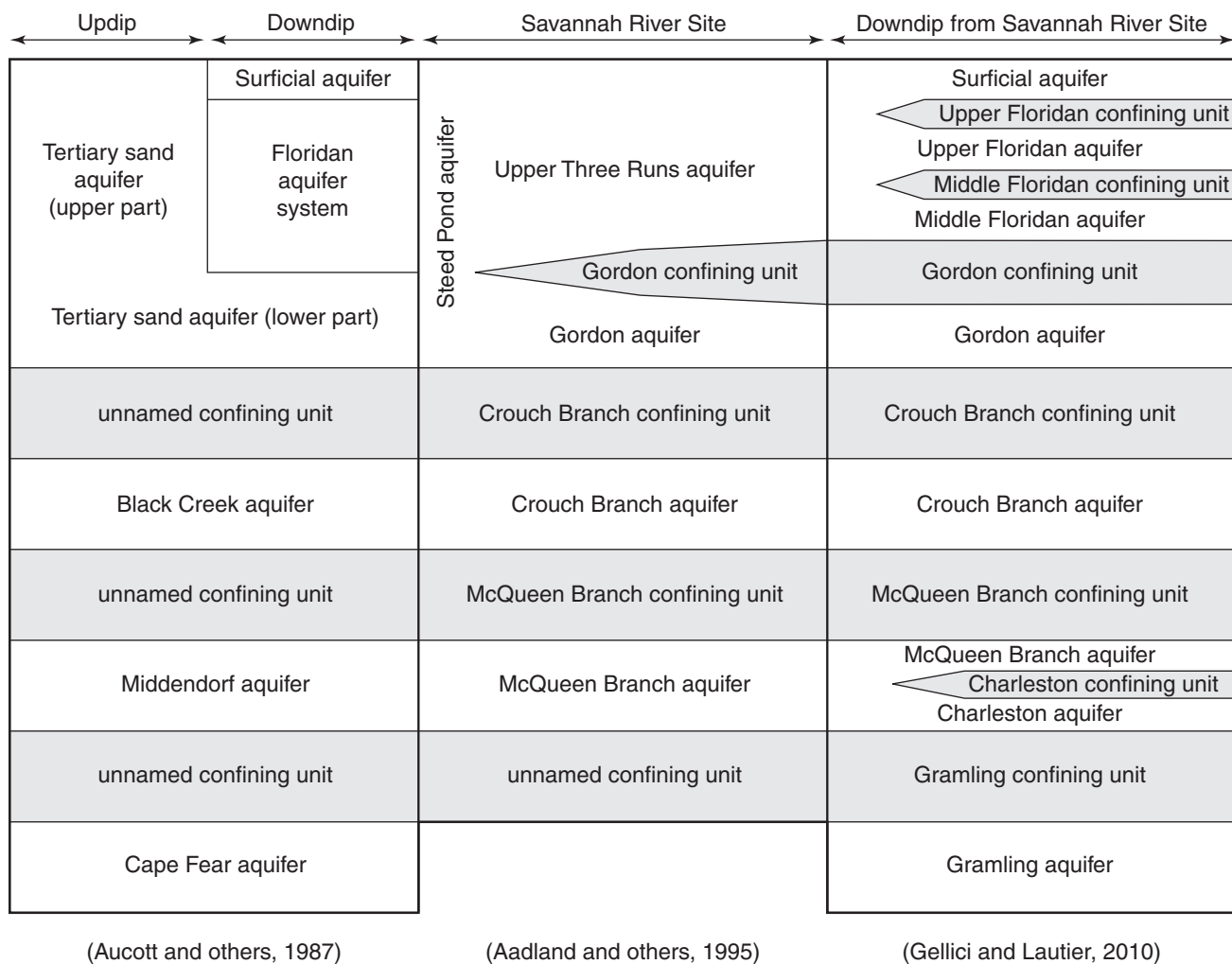
Ground-water levels observed from 2006 through 2010 include the effects of a statewide drought that began in the spring of 2007 and continued into the spring of 2009. Precipitation was below normal over most of the State, but conditions were most severe in the western part of the State and in the Upstate. Southern regions of the State, such as Beaufort and Jasper Counties, were less affected but were also in and out of drought during this period. Ground-water levels across the State were generally at their lowest during September–December of 2007 and 2008. Many wells had record low water levels. Water levels began to recover in 2009 and were near pre-drought levels by the middle of 2010. Water levels, however, began to drop again toward the end of 2010 as drought conditions returned.

## Crystalline-Rock Aquifer

The crystalline-rock aquifer consists of intrusive-igneous and metamorphic rock that transmits ground water through fractures and faults. It is exposed or thinly covered in the Piedmont and Blue Ridge physiographic provinces, where it is the principal source of ground water. It also extends beneath the Coastal Plain, where it is rarely used owing to greater permeability and water availability in the overlying sedimentary rock. Principal crystalline-rock units of the Piedmont include those of the Inner Piedmont terrane, Laurens thrust stack, Charlotte and Eastern Charlotte terranes, and Carolina Slate Belt. Rocks of the Chauga Belt and Blue Ridge terrane are the main units in the Blue Ridge province.

The crystalline-rock aquifer is complex both lithologically and structurally. It includes rocks formed deep in the earth’s crust through numerous mountain-building events. They are cut by fracture systems formed not only by pressure during mountain building but by later tension during the formation of the Atlantic Ocean and by release of pressure as overlying rocks were eroded. The result is a complex network of fractures, sparse in some areas and dense in others, especially along fault zones. The size, number, and extent of fractures diminish with increasing depth, and most crystalline-rock wells are less than 400 feet deep. More than 70 percent of reported well yields





**Figure 2. Hydrostratigraphy of Aucott and others (1987), Aadland and others (1995), and Gellici and Lautier (2010).**

are less than 20 gpm (gallons per minute), and almost half are less than 10 gpm. Contractors rarely guarantee well yield, owing to the chance of drilling a dry hole. Nonetheless, yields greater than 100 gpm have been reported, and the probability of obtaining such yields increases where well-site selection is guided by geologic and geophysical investigation.

Water levels were measured from 14 wells completed in the crystalline-rock aquifer during 2006–2010 (Fig. 3). Water levels in these wells fluctuated from 2 to 17 ft over the five-year period (Appendix A). Well SAL-0069 had the greatest overall water-level change, dropping about 16 ft in a single year (2007). The water level in well GRV-0712 also changed significantly, dropping about 12 ft in 2007.

With a few exceptions, seasonal fluctuations are observed on the hydrographs, with high water levels occurring primarily from February–May and lows from September–December. This seasonal pattern is common in wells throughout the State. Aquifers are usually recharged

during the cooler, dormant seasons when evapotranspiration rates are low, and are depleted during the warmer, growing seasons when evapotranspiration rates are high. Several wells, such as CRK-0074, LRN-1706, and GRV-3342, display less seasonality in their hydrographs, especially during the peak of the drought in 2007 and 2008. Relatively steady water-level declines occurred in these wells from mid 2007 through the early part of 2009 without the corresponding rise that typically occurs in late winter and early spring.

Water levels in most wells were at their lowest point during September–December of 2007 and 2008, due to the drought. In many wells, low water levels occurred a month later in 2007 (October–December) than they did in 2008 (September–November). Of the 14 wells completed in the crystalline rock aquifer, nine had record low water levels over the past five years and one well tied its record low (Table 4). Most of the previous low marks were set during the 1998–2002 drought.

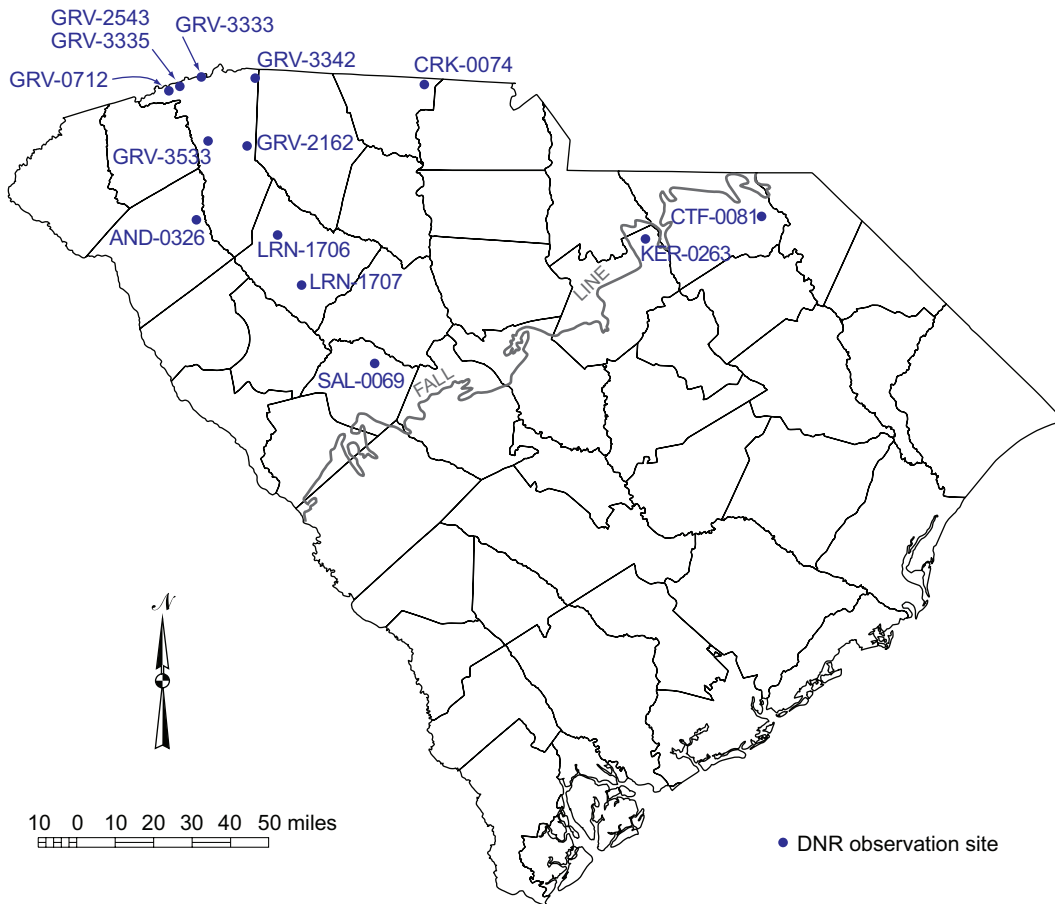


Figure 3. Location of crystalline-rock aquifer observation wells.

Table 4. Recent record-low water levels in the crystalline-rock aquifer

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
CRK-0074	78.35 ft bls (10/2/2002)	78.44 ft bls (1/28/2009)	0.09
GRV-0712	38.58 ft bls (9/22/2002)	43.74 ft bls (12/22/2007)	5.16
GRV-2162	43.75 ft bls (12/9/2001)	44.69 ft bls (11/26/2008)	0.94
GRV-2543	17.31 ft bls (11/1/2004)	17.40 ft bls (10/3/2007)	0.09
GRV-3333	34.76 ft bls (10/15/2002)	35.41 ft bls (12/8/2008)	0.65
GRV-3335	8.97 ft bls (9/24/1999)	8.97 ft bls (10/20/2008)	0.00
GRV-3342	49.64 ft bls (11/18/2002)	49.76 ft bls (1/9/2009)	0.12
LRN-1706	110.41 ft bls (9/16/2002)	110.72 ft bls (2/26/2009)	0.31
LRN-1707	73.46 ft bls (11/7/2002)	73.95 ft bls (11/21/2008)	0.49
SAL-0069	25.89 ft bls (10/30/1993)	26.38 ft bls (12/31/2010)	0.49

bls: below land surface

## Shallow Aquifer System

“Shallow aquifer system” is a term of convenience applied to the complex of materials between land surface and the major aquifers of the Blue Ridge, Piedmont, and Coastal Plain. This aquifer system is equivalent to the surficial aquifer of Aucott and others (1987) for the Coastal Plain.

The shallow aquifer system in the Blue Ridge and Piedmont consists of porous materials overlying the fractured crystalline-rock aquifer system. Saprolite, the residual material from the weathering of bedrock, forms the most geographically extensive shallow unit above the Fall Line. Saprolite typically is 35 to 100 ft thick, but is thin to absent in some mountainous areas and well over 100 ft in some lower areas. It is usually rich in clay, except where the parent rock is mainly quartz. It is a source of water to bored wells—augered or dug wells that must be constructed with large diameters owing to low permeability and the consequent need to store large volumes of water. Such wells may yield ground water from the clay-rich saprolite, from relict bedrock fractures and intrusive rock, and from the transition zone, a zone of fractured but relatively unweathered rock debris just above the unaltered parent rock. Sustained yields typically are no more than a few gallons per minute; however, the saprolite is the main

source of groundwater storage in the region and the main source of ground water in the underlying crystalline-rock aquifer system. Where the saprolite is thick, water levels usually respond slowly to precipitation because the low permeability of clay inhibits recharge. Water levels also respond slowly to drought because clay will store large volumes of water and release it slowly.

Shallow aquifers above the Fall Line also include modern and relict alluvial deposits. These alluvial aquifers commonly are unconfined, widely dispersed, and small in areal extent. Because of the energy of their source streams, Blue Ridge and Piedmont alluvial aquifers tend to be coarser but less isotropic than their Coastal Plain counterparts. Consequently, well yields can vary widely, even within distances of a few hundred feet.

In the Coastal Plain, the shallow aquifer system consists mainly of coastal terrace deposits, and modern and relict alluvial deposits. Where present, the aquifer is generally less than 40 ft thick and consists primarily of sand, shell, and clay (Aucott and others, 1987). The aquifer is the water-table aquifer and is present throughout most of the lower Coastal Plain and more sporadically in the middle Coastal Plain.

Water levels were measured from five wells completed in the shallow aquifer system during 2006–2010 (Fig. 4), fluctuating from 3 to 8 ft over the five-year period

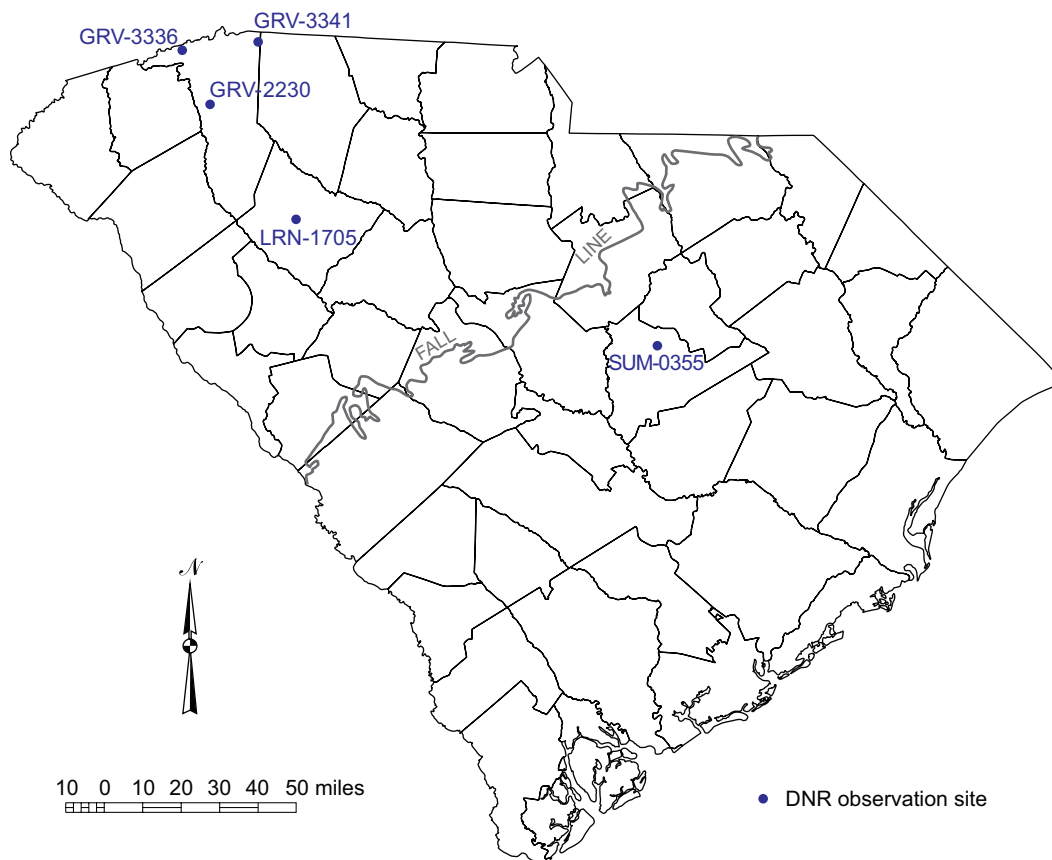


Figure 4. Location of shallow aquifer system observation wells.



(Appendix B). During a given year, water levels varied up to 5 ft. Seasonal fluctuations are evident on most of the hydrographs, with high water levels occurring from February–May and lows from September–December. An exception to this seasonal pattern is at well GRV-3341, which shows declines throughout the winter and spring months of 2008 and 2009, owing to reduced precipitation during the drought.

Water levels in most of the wells were at their lowest during September–December of 2007 and 2008, owing to the drought. Of the five wells completed in the shallow aquifer system, four were also monitored during the 1998–2002 drought. Three of these four wells had record low water levels during the period from 2006 through 2010, breaking previous records that were set during the 1998–2002 drought (Table 5).

**Table 5. Recent record-low water levels in the shallow aquifer system**

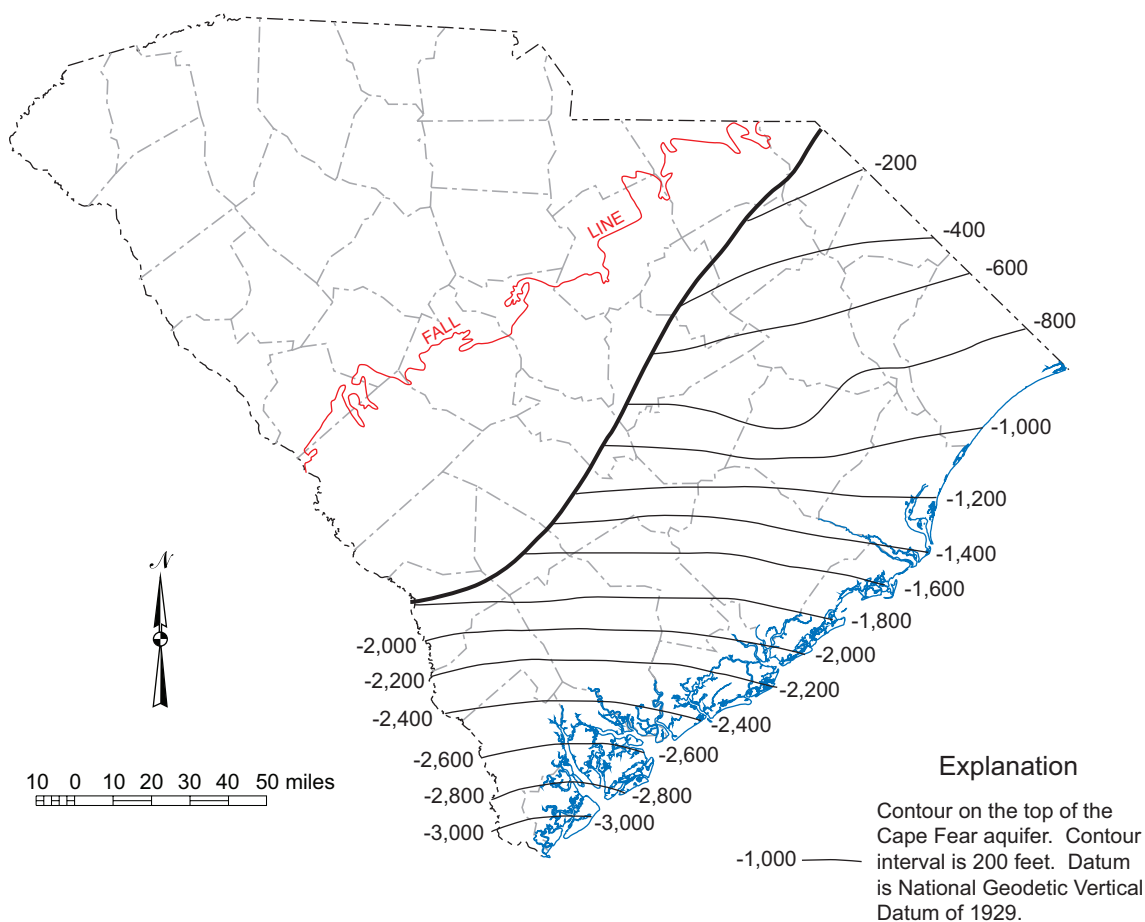
Well	Previous record low (Date)	New record low (Date)	Difference (ft)
GRV-2230	10.30 ft bls (9/13/2002)	10.82 ft bls (12/25/2007)	0.52
GRV-3341	49.83 ft bls (12/1/2002)	50.12 ft bls (2/4/2009)	0.29
LRN-1705	16.98 ft bls (8/25/2002)	18.45 ft bls (10/7/2008)	1.47

bls: *below land surface*

### Cape Fear Aquifer

The Cape Fear aquifer consists principally of the Cape Fear Formation and is the basal aquifer of the South Carolina Coastal Plain. It generally consists of sand and gravel beds separated by thick sections of silt and clay. It is thought to occur mainly in the Lower Coastal Plain and

eastern part of the Upper Coastal Plain. The type locality of the Cape Fear Formation is in North Carolina, and the formation is not known to outcrop in South Carolina. Structure contours on the top of the aquifer are shown in Figure 5. Few wells penetrate the aquifer, hence hydraulic and water-quality data are scarce. In general, the aquifer is thought to be much less permeable and productive than



**Figure 5. Contours on top of the Cape Fear aquifer (from Aucott and others, 1987).**

the overlying Middendorf aquifer, and it is likely to contain more highly mineralized water.

Wells ALL-0348 and MRN-0078 are the only observation wells known to be completed solely in the Cape Fear (Fig. 6). Owing to its great depth and to lack of development by water users, the Cape Fear aquifer experiences only small seasonal water-level fluctuations and shows little response to drought. Water-levels fluctuated from about 1 to 6 ft in wells completed in the aquifer during 2006-2010 (Appendix C). Both wells that are being monitored hit their all-time low water level during the past five years (Table 6). ALL-0348, located near Allen-

dale, had a low of 81.91 ft bls (feet below land surface) on August 4, 2008. The previous low was recorded on August 1, 1996, when it was 81.59 ft bls. Water levels in this well varied by only 1 foot over the course of the five-year period but slight seasonal fluctuations and the effects of the recent drought can be observed on the hydrograph. The other well screened in the Cape Fear aquifer (MRN-0078) is a flowing artesian well located at Brittons Neck. Its previous low water level was 35.69 ft als (feet above land surface) on August 29, 1999. A new water-level low of 30.00 ft als was measured on August 15, 2007.

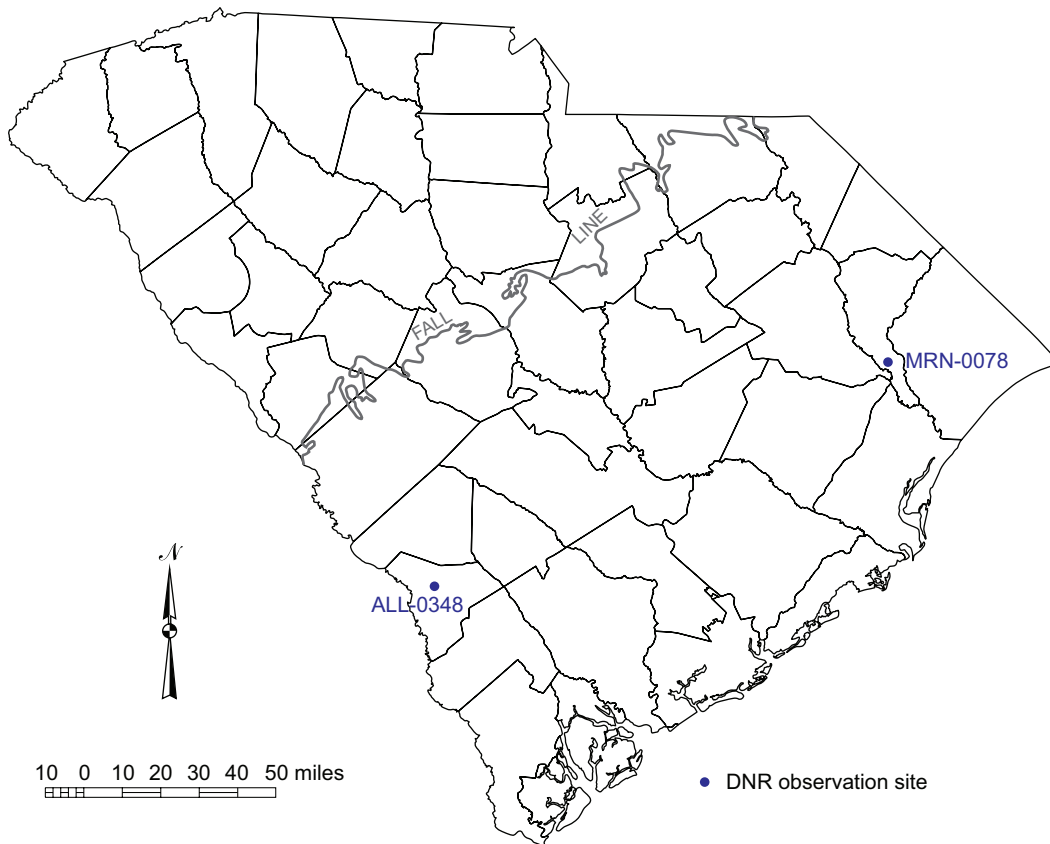


Figure 6. Location of Cape Fear aquifer observation wells.

Table 6. Recent record-low water levels in the Cape Fear aquifer

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
ALL-0348	81.59 ft bls (8/1/1996)	81.91 ft bls (8/4/2008)	0.32
MRN-0078	35.69 ft als (8/29/1999)	30.00 ft als (8/15/2007)	5.69

bls: below land surface; als: above land surface

## Middendorf Aquifer

The Middendorf aquifer is composed mostly of Middendorf Formation sediments, but locally it includes parts of adjacent formations. In the updip areas, the aquifer is interbedded sand and clay lenses that were deposited in an upper delta plain environment. Near the coast, the aquifer encompasses thin- to thick-bedded sand and clay deposited in marginal marine or lower delta plain environments. In general, the Middendorf aquifer has coarser sand and less clay in the western part of the Coastal Plain than in the eastern part.

The Middendorf crops out along the Fall Line from Chesterfield County to Edgefield County, except for some areas of Aiken County where it is not exposed (Fig. 7). Its outcrop is narrowest in southwestern Edgefield County and widest in Chesterfield County. The aquifer dips southeastward near the Fall Line and southward along the coast. The top of the aquifer is at elevation 100, -700, and -1,700 ft msl (mean sea level) at Aiken, Little River, and Charleston, respectively. Thickness ranges from 0 at the Fall Line to more than 300 ft in Dorchester County.

Wells that tap the Middendorf aquifer can be found in nearly all of South Carolina's Coastal Plain counties, and it is the State's most widely used artesian aquifer. Well depths range from a few tens of feet in its outcrop and subcrop areas, where locally it is unconfined, to more than 2,700 ft in Beaufort County. Individual well yields that locally exceed 2,000 gpm and commonly exceed 500 gpm were reported by Newcome (2000). He reported transmissivities of up to 400,000 gpd/ft (gallons per day per foot) and specific capacities as great as 75 gpm/ft (gallons per minute per foot of drawdown). Coarse sand and gravel formations occur in the aquifer in its subcrop area and, where incised by stream erosion, substantially contribute to the base flow of both Upper Coastal Plain and through-flowing streams.

Water levels were measured from 28 wells completed in the Middendorf aquifer during 2006–2010 (Fig. 8). Water levels in these wells fluctuated from 2 to 12 ft over the five-year period (Appendix D). Well FLO-0128, located about 10 miles east of Florence, had the greatest overall water-level change, rising about 12 ft from a low of 53.92 ft bls in early 2006 to a high of 41.24 ft bls in early 2010.

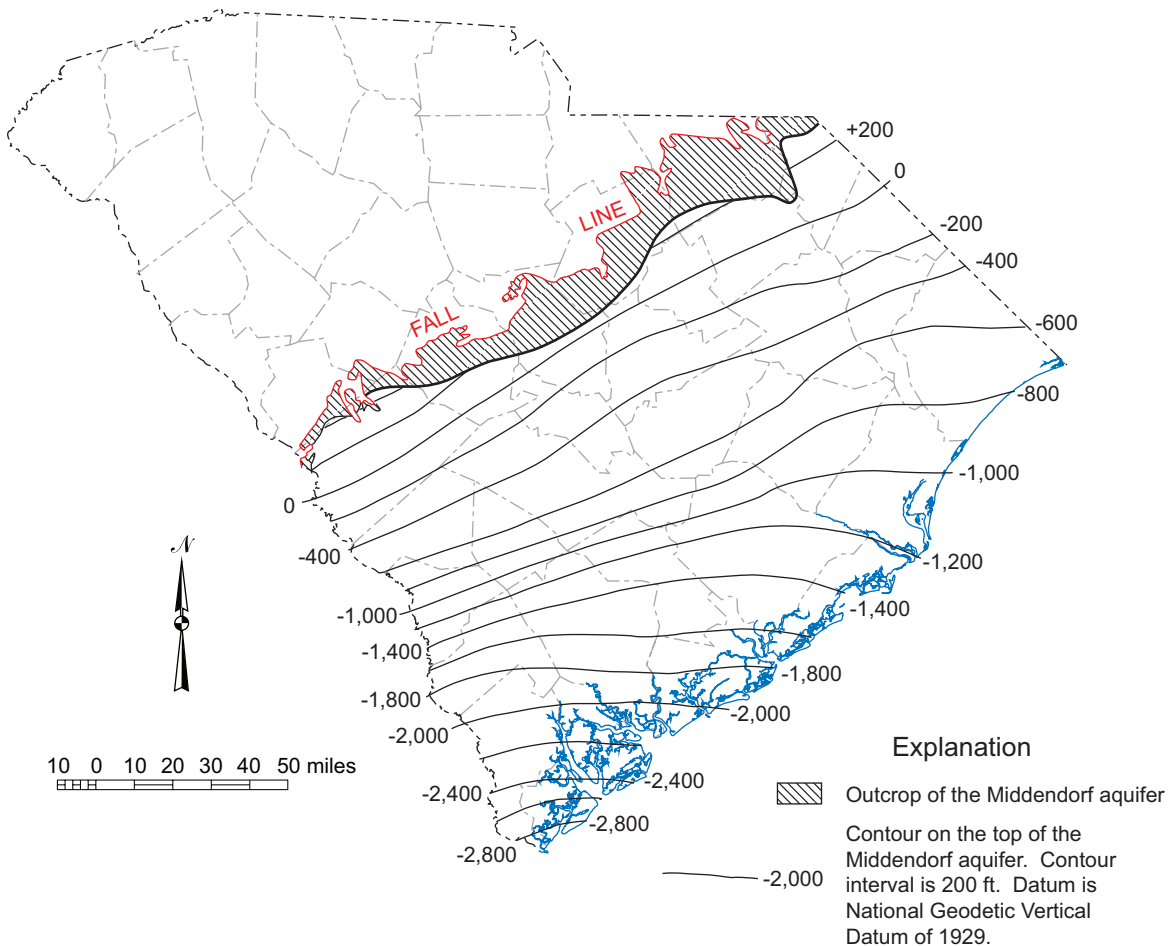
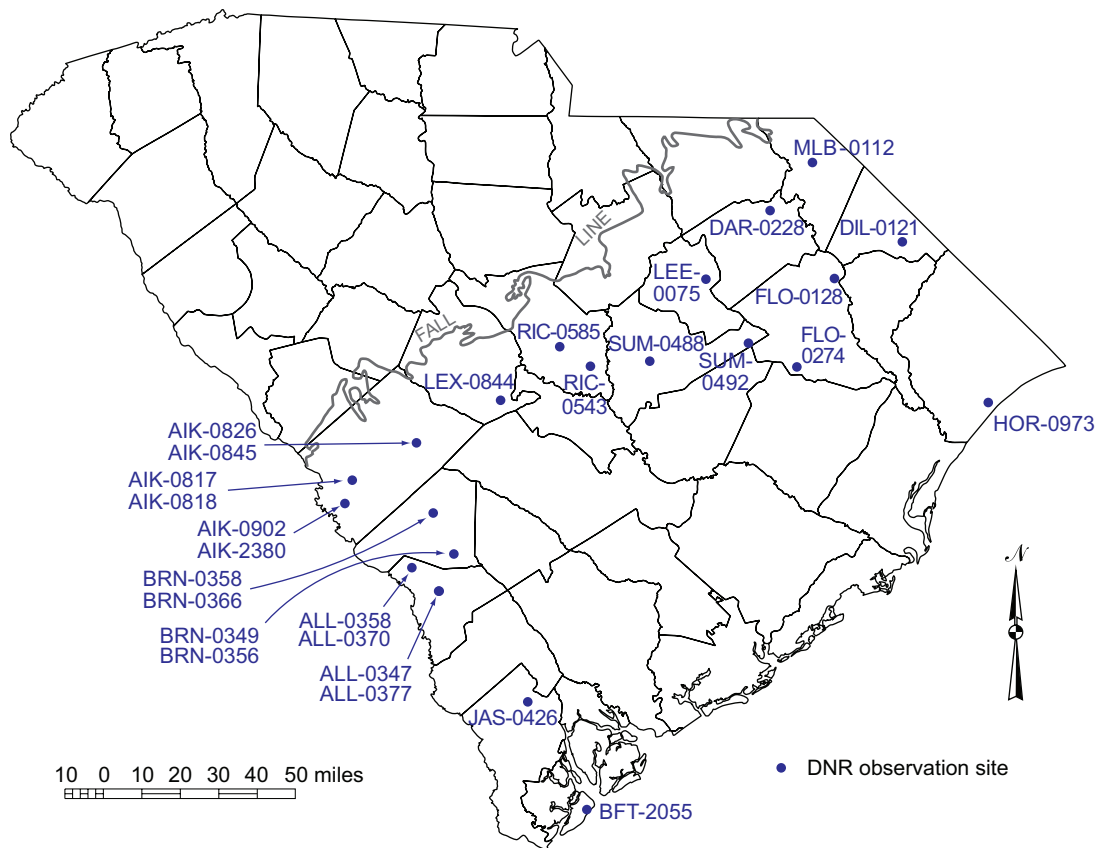


Figure 7. Contours on top of the Middendorf aquifer (from Aucott and others, 1987).



**Figure 8. Location of Middendorf aquifer observation wells.**

The water level in well SUM-0492, located in eastern Sumter County, had the greatest yearly change, dropping about 7 ft in 2010. This well might be influenced by local pumping from a public supply well in Woods Bay State Park.

Seasonal water-level fluctuations are evident on most of the hydrographs, with high levels occurring during the late winter and early spring months (February–May) and lows occurring most often from September–December. Several wells do not show a strong seasonal signal, possibly due to increased pumping from nearby wells. For example, at well FLO-274 in Lake City, water levels tend to level off during the typical recharge period (February–May) but do not fully recover to levels attained in the previous year. As a result, water levels in this well have been steadily dropping for the past five years. A similar observation is made of wells ALL-0377 and LEX-0844.

Water levels in most of the wells were usually at their lowest point during September–December of 2007 and 2008, owing to the drought. Water levels in some wells

were also low in late 2009 as the drought extended into the summer of 2009. Of the 28 wells completed in the Middendorf aquifer, water levels from 15 were also monitored during the 1998–2002 drought. Nine of the 15 had all-time low water levels in the past five years (Table 7).

*Long-term trends in the Middendorf aquifer*

In southern Florence County, the water level in the Middendorf aquifer has steadily dropped about 10 ft over the past ten years at well FLO-0274 in Lake City (Fig. 9). In southern Lexington County, the water level in the Middendorf declined about 10 ft during the 1998–2002 drought, leveled off after the drought, and has yet to fully recover to pre-drought levels (Fig. 10). Similar declines are noted in the Middendorf aquifer in Aiken, Allendale, and Barnwell Counties, where water levels have dropped 3 to 10 ft since the mid-1990s (Figs. 11–13).

Well BFT-2055, at Hilton Head Island, is screened in both the Cape Fear and Middendorf aquifers; measurements therefore reflect composite water levels. They are

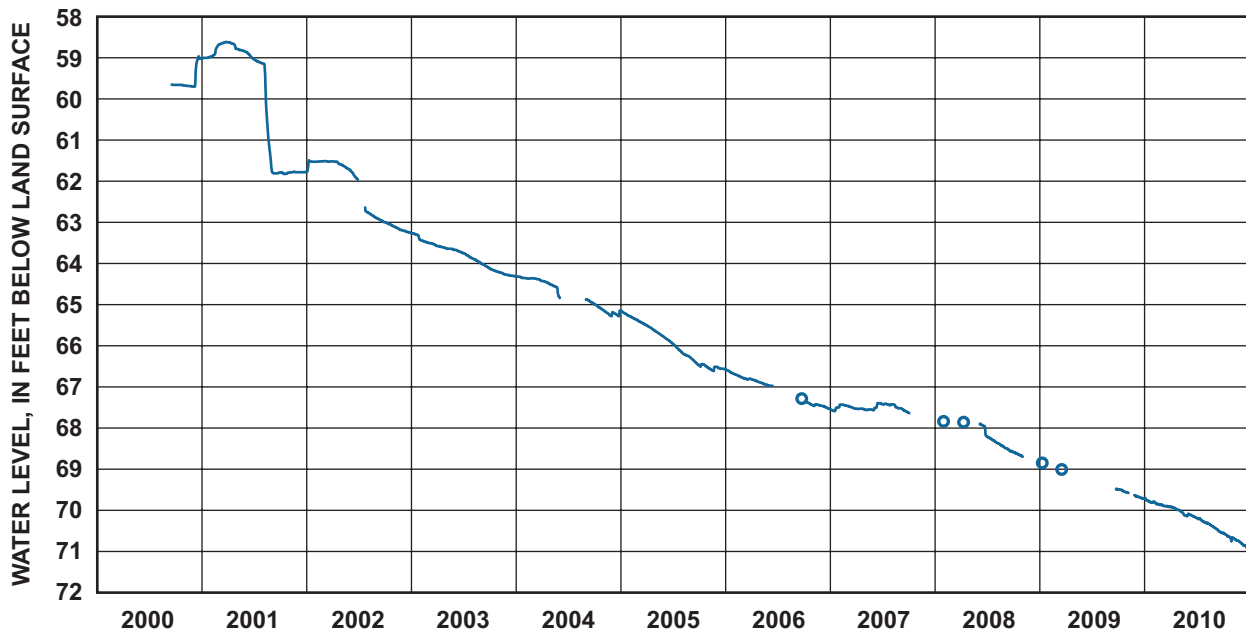
**Table 7. Recent record-low water levels in the Middendorf aquifer**

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
ALL-0347	97.75 ft bls (1/24/2003)	99.32 ft bls (5/27/2009)	1.57
ALL-0358	60.08 ft bls (11/18/2002)	62.78 ft bls (9/19/2008)	2.70
ALL-0377	96.42 ft bls (1/30/2003)	99.07 ft bls (10/23/2008)	2.65
BFT-2055	134.01 ft als (8/5/2005)	127.79 ft als (2/24/2009)	6.22
FLO-0274	66.62 ft bls (11/20/2005)	70.97 ft bls (12/30/2010)	4.35
HOR-0973	81.86 ft als (1/27/2005)	79.69 ft als (1/10/2008)	2.17
JAS-0426	71.40 ft als (10/3/2005)	66.18 ft als (11/4/2009)	5.22
LEX-0844	75.76 ft bls (1/27/2003)	76.75 ft bls (10/23/2008)	0.99
RIC-0543	47.07 ft bls (9/24/2002)	50.38 ft bls (8/1/2008)	3.31

bls: below land surface; als: above land surface

presumed to more closely reflect Middendorf water levels, owing to that system's greater thickness and hydraulic conductivity. Consequently, BFT-2055 measurements are presented with Middendorf aquifer data. Water levels in wells BFT-2055 and JAS-0426 have also been declining over the past 10 years, by 28 ft in BFT-2055 (Fig. 14) and by about 12 ft in JAS-0426 (Fig. 15).

In well FLO-0128, the water level has been recovering since August 1999 when it hit an all-time low of 92.07 ft bls (Fig. 16). By 2010, the water level recovered to 41.24 ft bls, as the City of Florence continues to supplement its ground-water supply with surface water from the Pee Dee River.



**Figure 9. Period-of-record hydrograph for well FLO-0274 (Middendorf).**

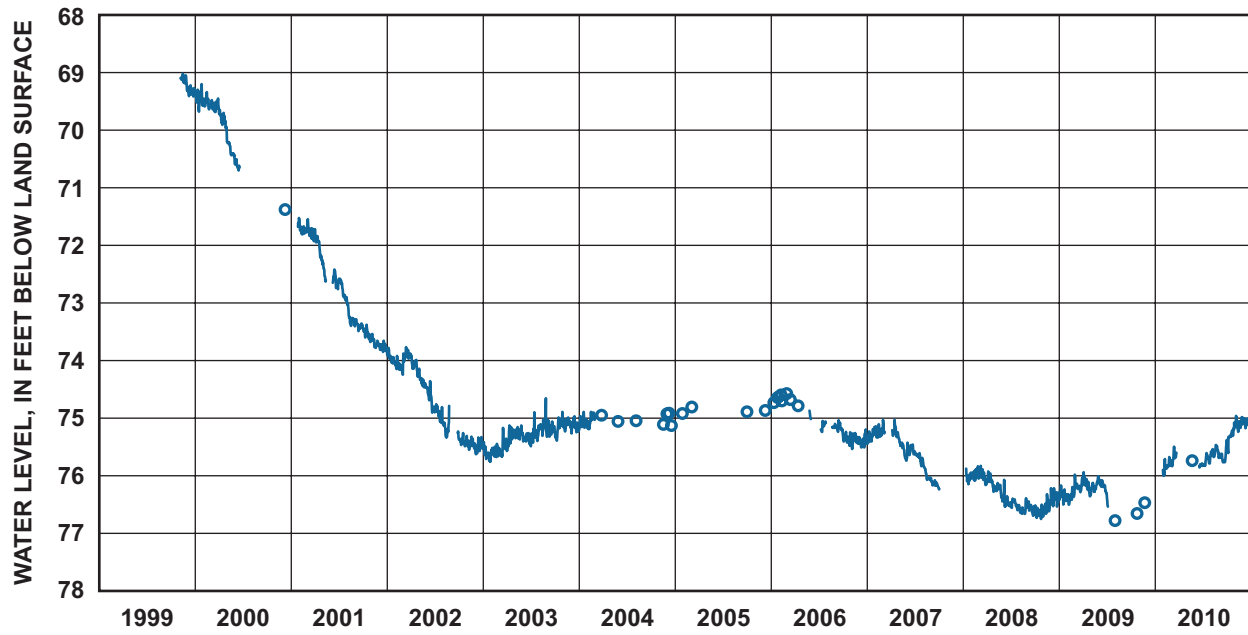


Figure 10. Period-of-record hydrograph for well LEX-0844 (Middendorf).

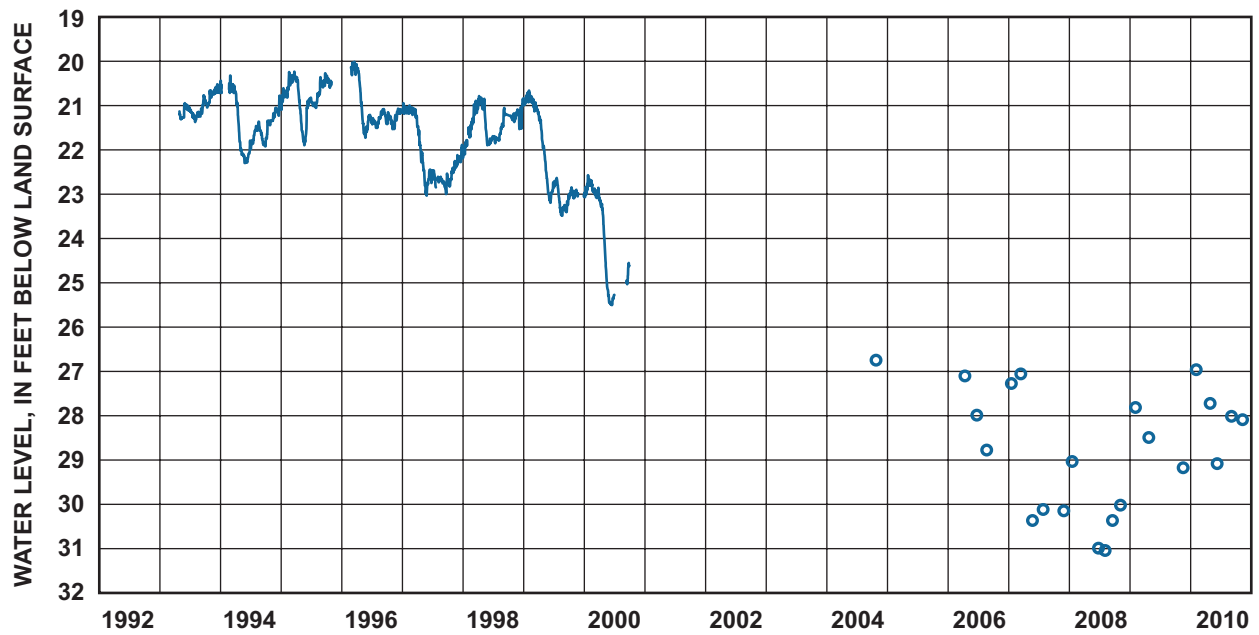


Figure 11. Period-of-record hydrograph for well AIK-0845 (Middendorf).

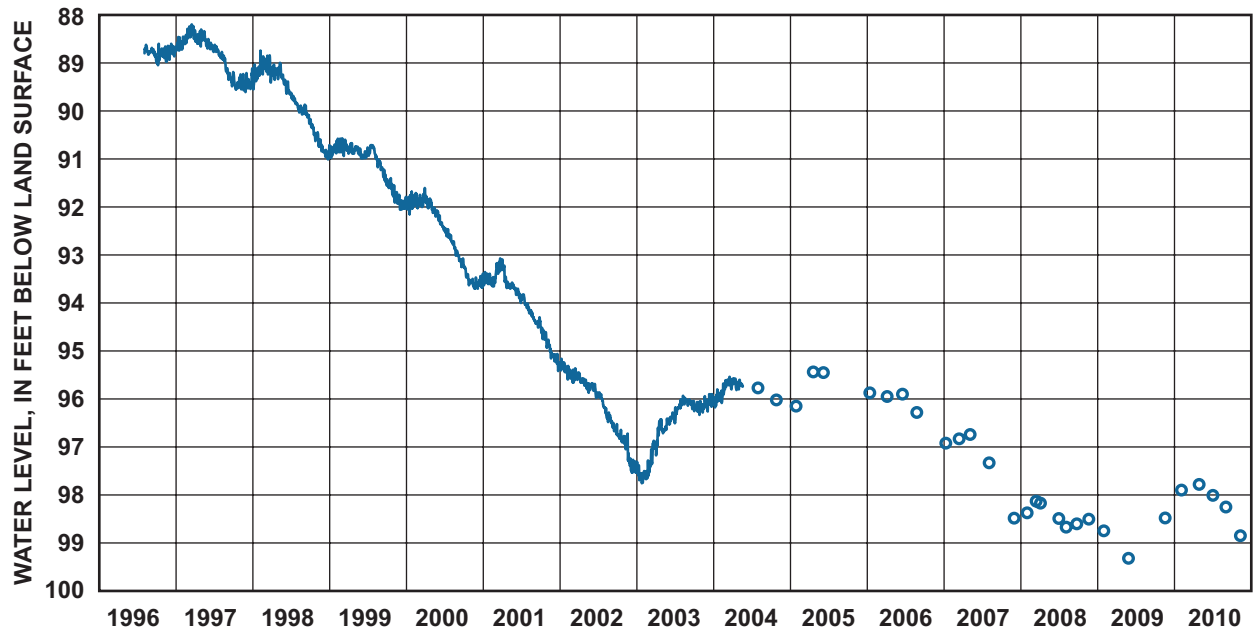


Figure 12. Period-of-record hydrograph for well ALL-0347 (Middendorf).

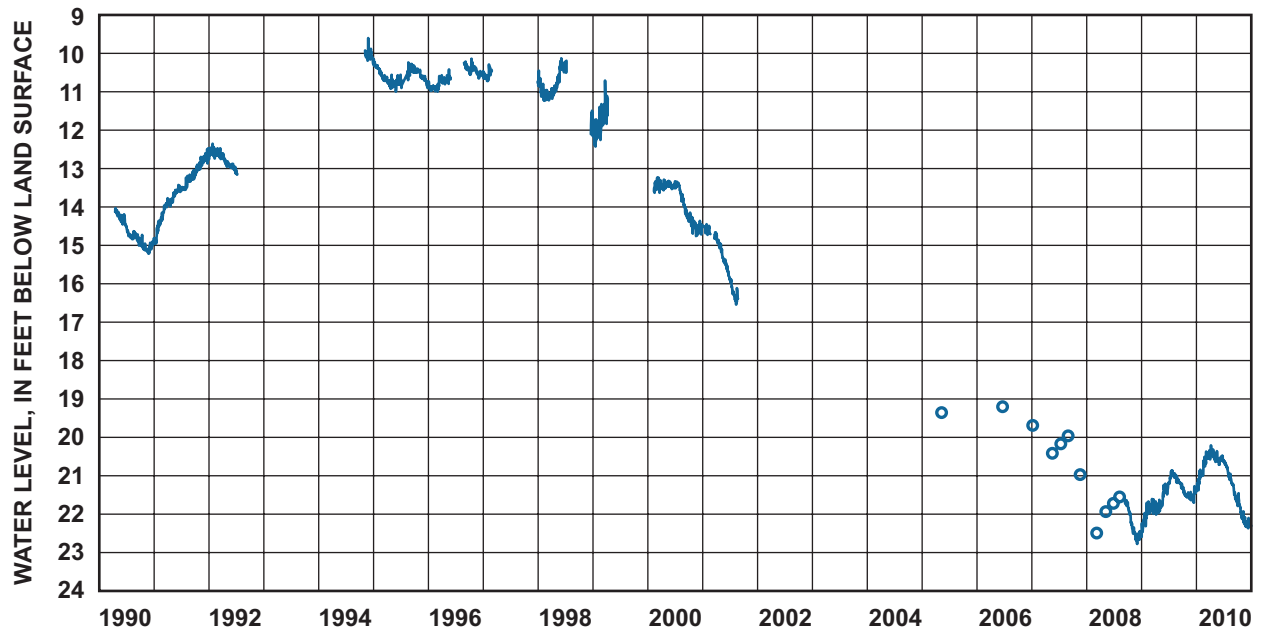


Figure 13. Period-of-record hydrograph for well BRN-0349 (Middendorf).

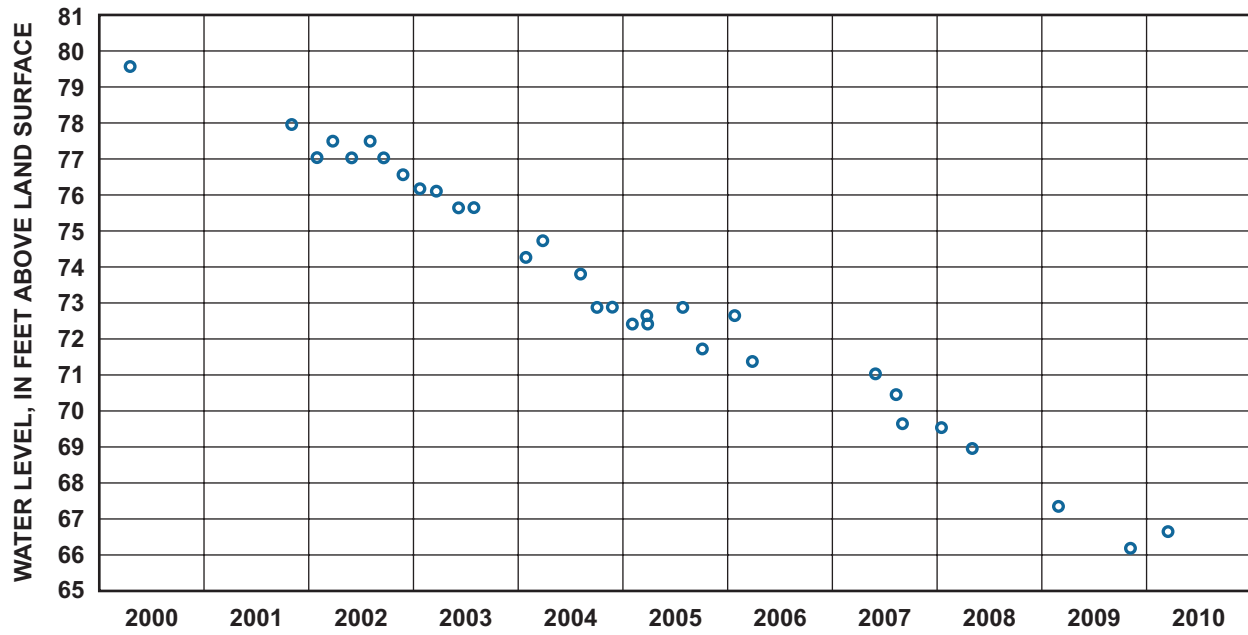


Figure 14. Period-of-record hydrograph for well JAS-0426 (Middendorf).

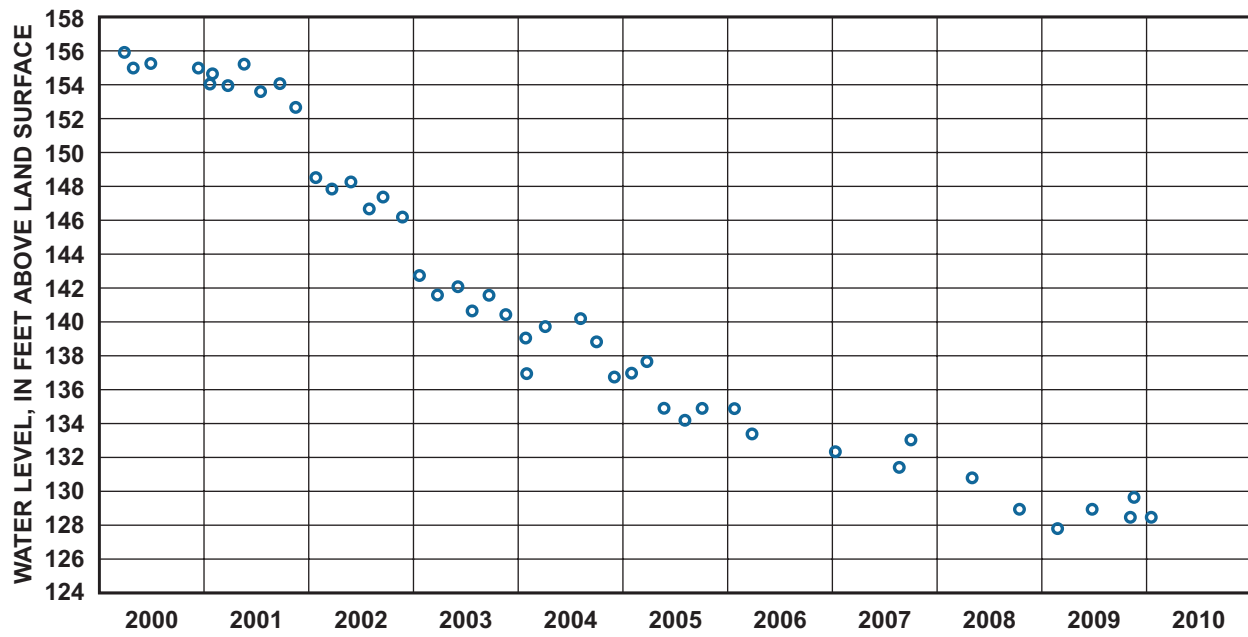


Figure 15. Period-of-record hydrograph for well BFT-2055 (Middendorf).



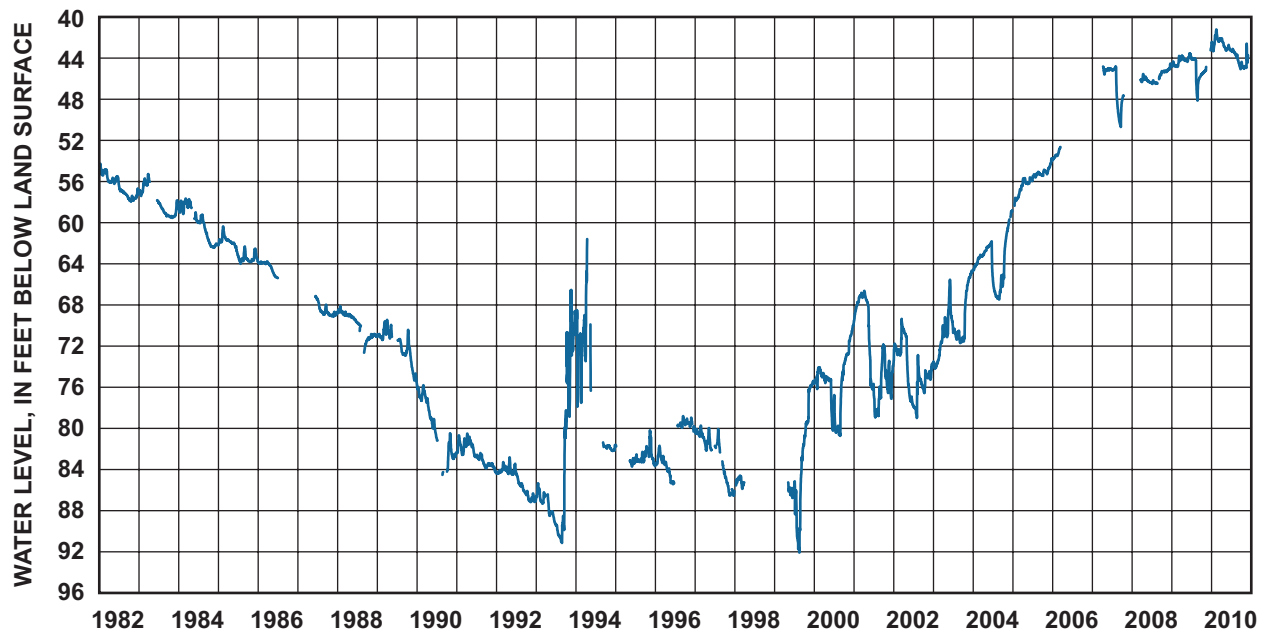


Figure 16. Period-of-record hydrograph for well FLO-0128 (Middendorf).

### Black Creek Aquifer

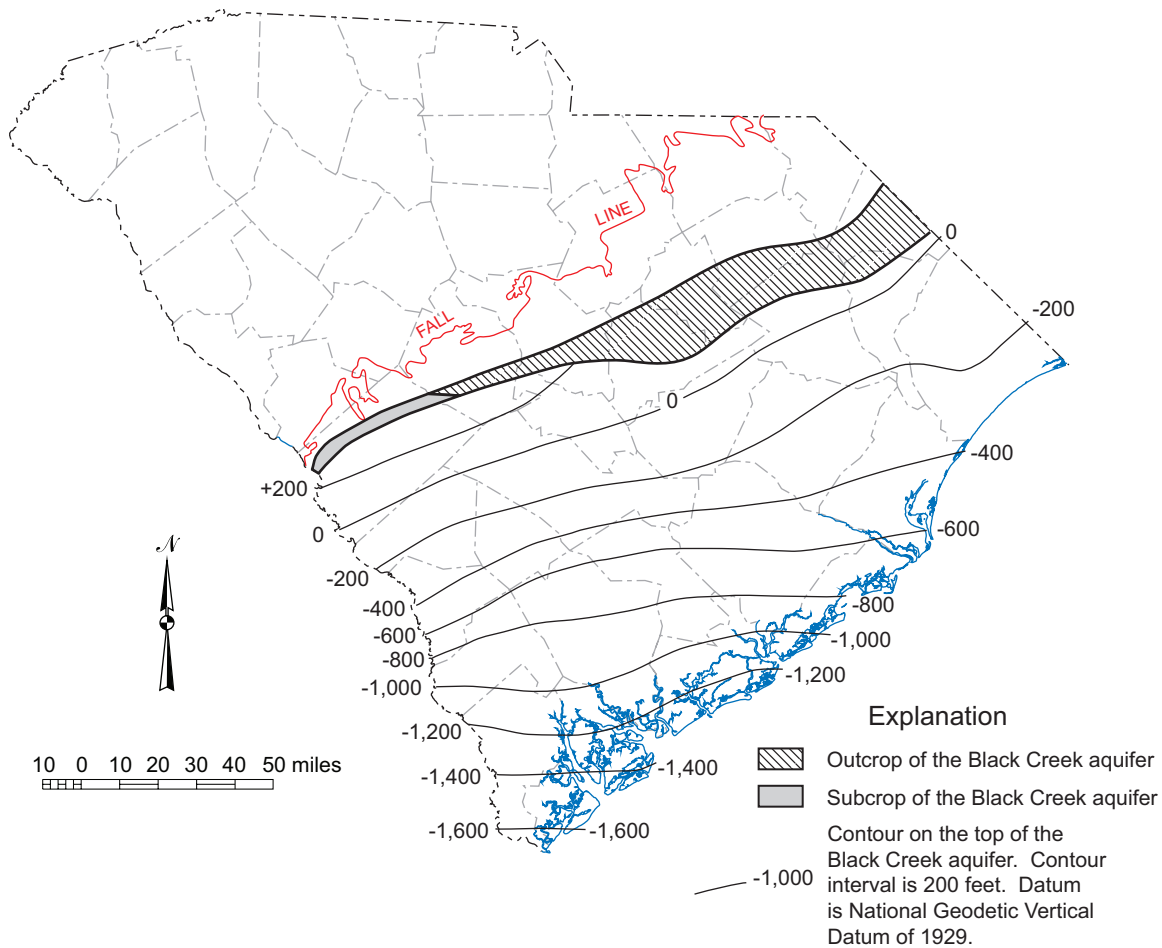
Aucott and others (1987) delineated the Black Creek aquifer on the basis of geologic data (primarily geophysical well logs), water-level data, water-chemistry data, and previous investigations. The Black Creek is the youngest of the Cretaceous aquifers in the region. It is composed mostly of permeable sediments of the Black Creek Formation but locally includes sediments of overlying Tertiary-age formations and the overlying Peedee Formation. The aquifer encompasses thin- to thick-bedded sand and clay beds that were deposited in marginal marine or delta plain environments. The coarsest sand and least clay content are found in the western part of the Coastal Plain.

The aquifer crops out in the eastern Coastal Plain along a narrow band extending from Lexington County to Sumter County, thence along a wider area from Sumter County to Dillon County. It dips southeastward toward the coast. The top of the aquifer is at elevation 300, -250, and -1,000 ft msl at Aiken, Little River, and Charleston, respectively. Thickness ranges from about 100 ft near Aiken to more than 400 ft at the coast. Its outcrop and sub-crop areas and its structure are delineated in Figure 17.

The Black Creek aquifer is an important source of water supply. Well yields are greatest in the counties of the Upper and Middle Coastal Plain and are least in the coastal counties of Charleston and Beaufort. Where the highest possible well yields are desired, the Black Creek aquifer is screened in conjunction with the underlying Middendorf aquifer. These multi-aquifer wells are commonly used by major industrial and public-supply systems in Sumter, Florence, Horry, and Georgetown Counties.

Water levels were measured from 23 wells completed in the Black Creek aquifer from 2006 through 2010 (Fig. 18) and levels fluctuated from 2 to 27 ft over the five-year period (Appendix E). The water level in well HOR-0309, located in Conway, had the greatest overall change, dropping about 27 ft from its high in early 2006 to its low in late 2009. Well ORG-0393, located in downtown Orangeburg, saw its water level drop about 20 ft from a high of 103 ft bls in early 2006 to a low of about 123 ft bls in late 2007. In 2007 alone, the water level in this well dropped 18 ft. Seasonal water-level fluctuations are evident on most of the hydrographs, with high levels occurring from February–May and lows from September–December.

Water levels in most of the wells were at their low-

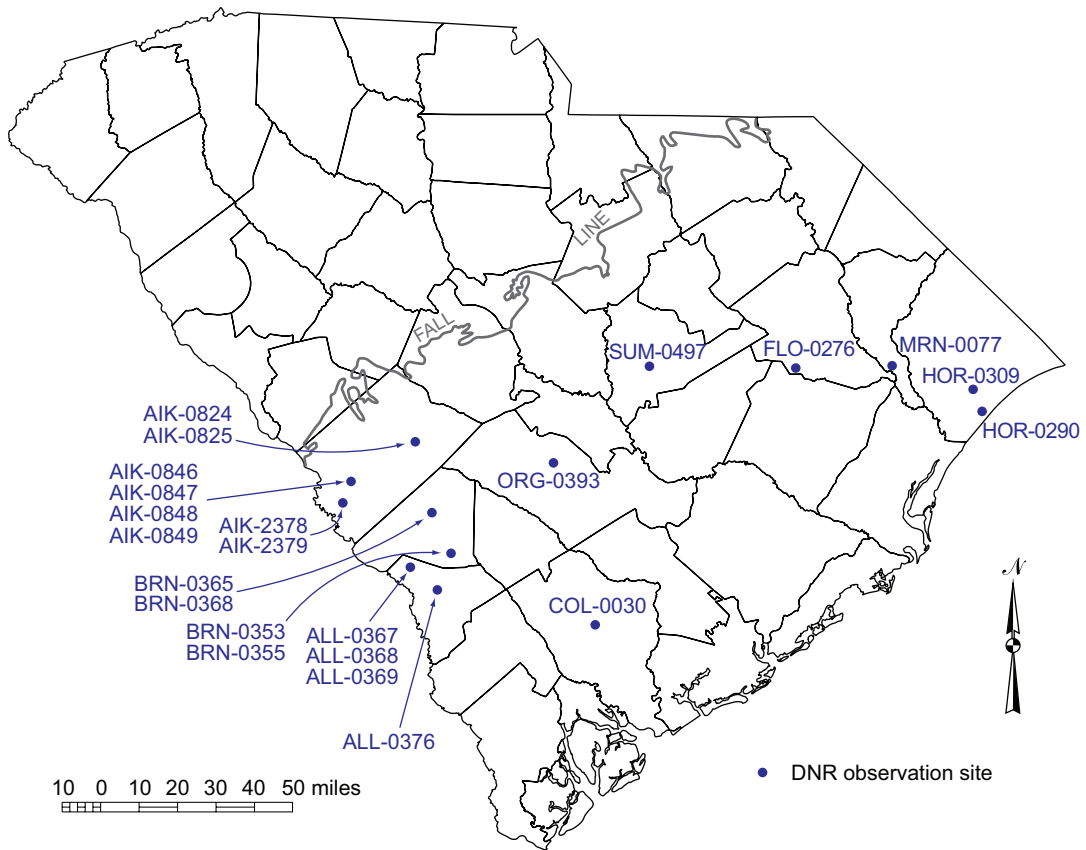


**Figure 17. Contours on top of the Black Creek aquifer (from Aucott and others, 1987).**

est point during September–December of 2007 and 2008, owing to the drought. It appears that in many wells, low water levels occurred approximately a month later in 2007 (October–December) than they did in 2008 (September–November). Water levels in some wells were also low in late 2009, probably also related to the drought. Of the 23 wells completed in the Black Creek aquifer, water levels from eight were also monitored during the 1998–2002 drought. Seven of the eight had all-time low water levels in the past five years (Table 8).

#### *Long-term trends in the Black Creek aquifer*

The water level in well MRN-0077, located at Britons Neck, steadily declined about 40 ft from 1993 to 2010 (Fig. 19). Well FLO-0276, in Lake City, has seen its water level drop 16 ft from 2001 to 2010 (Fig. 20). In Aiken, Allendale, and Barnwell Counties, water levels have dropped 4 to 12 ft in the Black Creek aquifer since the mid-1990s, similar to declines observed in the Middendorf aquifer in these counties (Figs. 21–23).



**Figure 18. Location of Black Creek aquifer observation wells.**

**Table 8. Recent record-low water levels in the Black Creek aquifer**

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
ALL-0367	94.64 ft bls (9/25/2002)	95.81 ft bls (9/23/2008)	1.17
ALL-0376	148.00 ft bls (8/21/2002)	148.58 ft bls (4/8/2008)	0.58
COL-0030	15.79 ft bls (6/4/2000)	18.83 ft bls (11/11/2008)	3.04
FLO-0276	77.55 ft bls (7/20/2005)	78.84 ft bls (7/27/2010)	1.19
HOR-0309	97.39 ft bls (8/27/2002)	112.70 ft bls (9/13/2009)	15.31
MRN-0077	46.60 ft bls (9/28/2005)	49.23 ft bls (9/24/2010)	2.63
ORG-0393	121.28 ft bls (9/25/2002)	123.49 ft bls (9/2/2007)	2.21

bls: below land surface

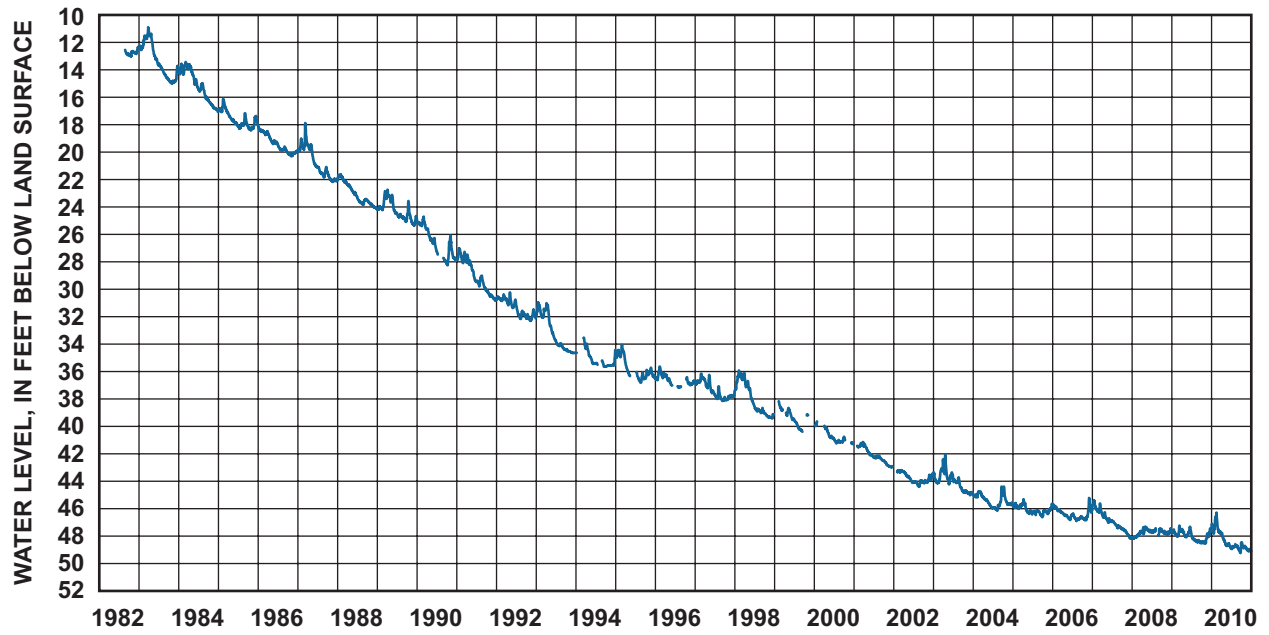


Figure 19. Period-of-record hydrograph for well MRN-0077 (Black Creek).

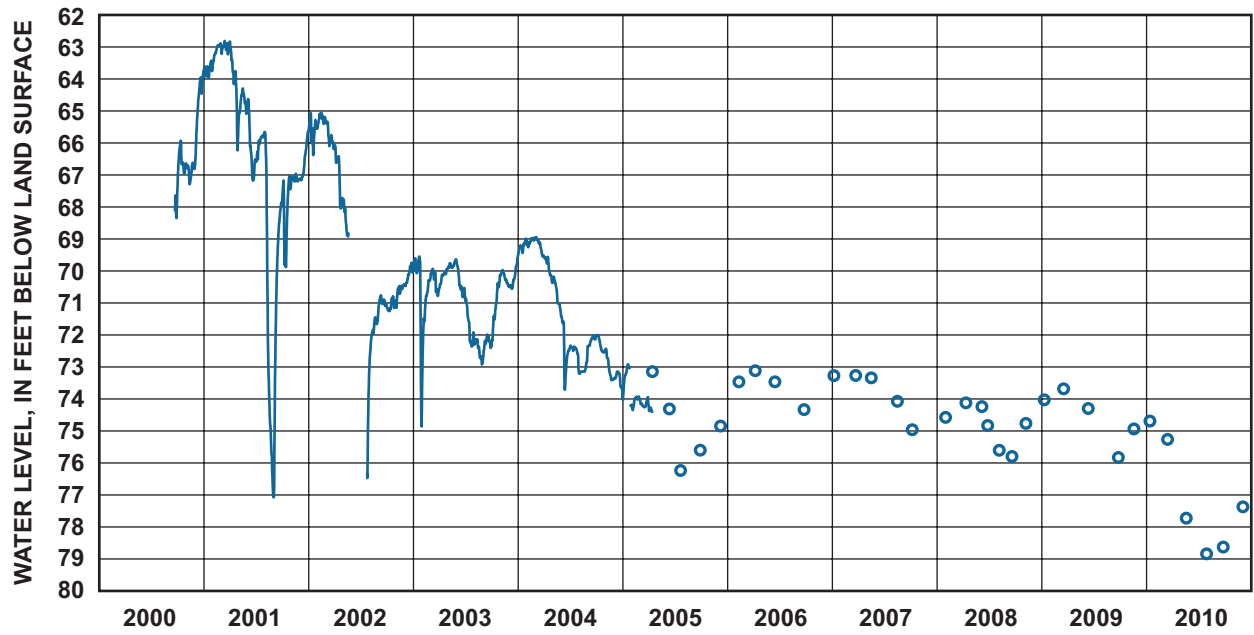


Figure 20. Period-of-record hydrograph for well FLO-0276 (Black Creek).

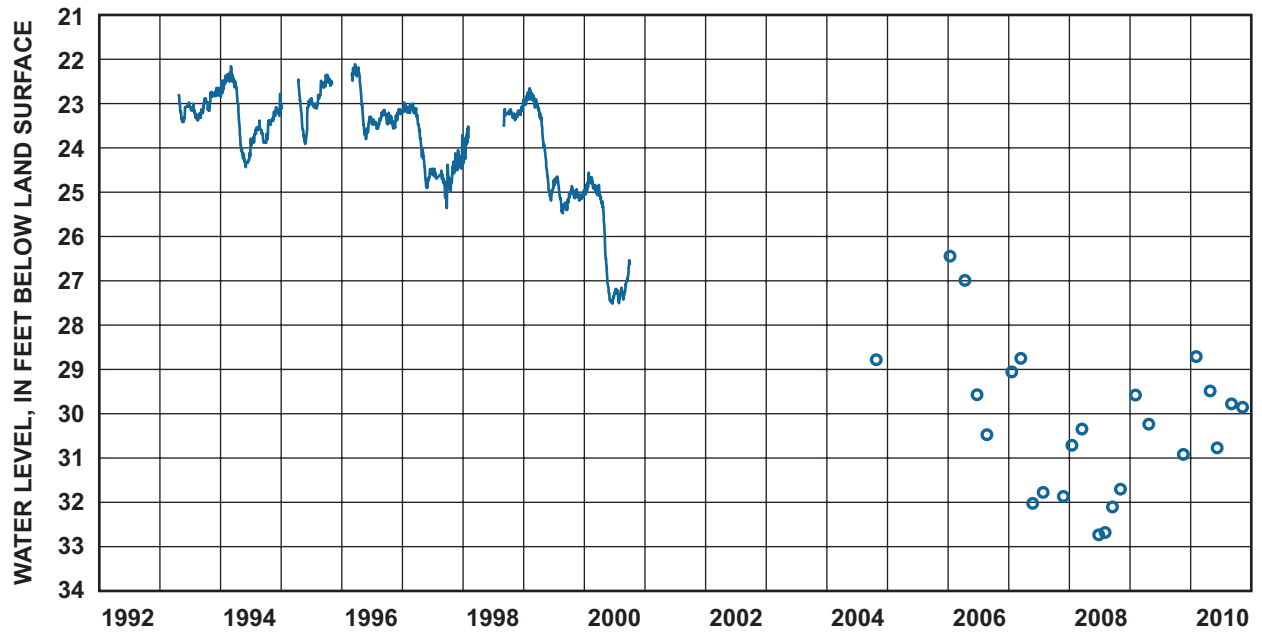


Figure 21. Period-of-record hydrograph for well AIK-0847 (Black Creek).

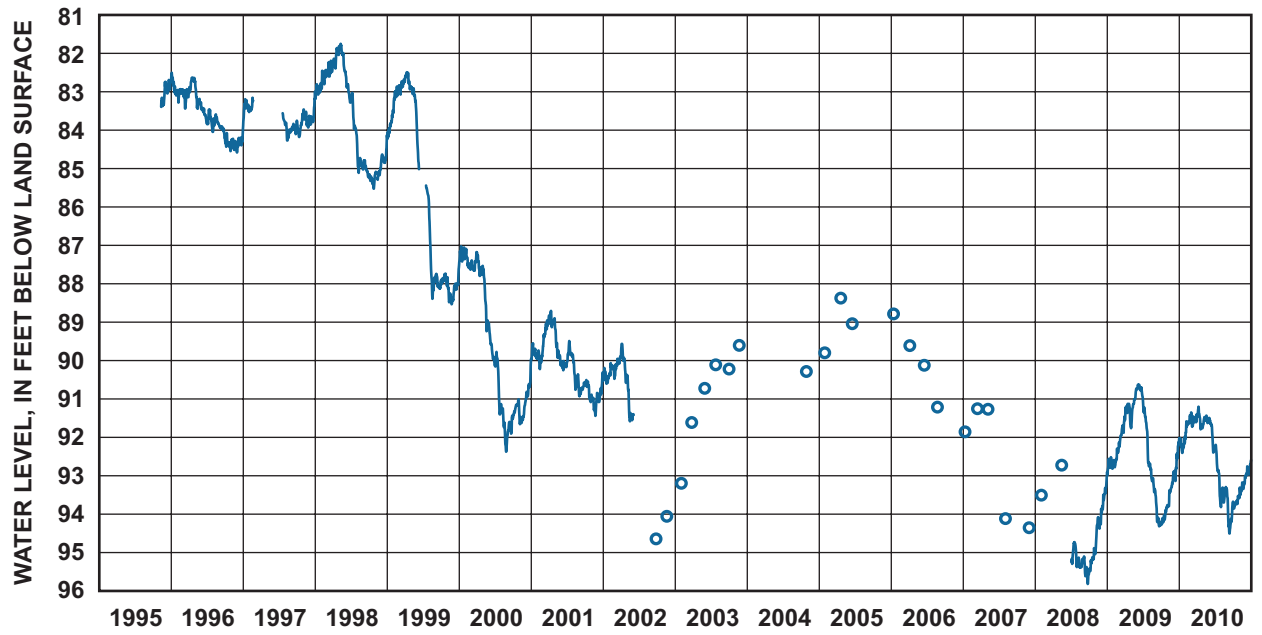


Figure 22. Period-of-record hydrograph for well ALL-0367 (Black Creek).

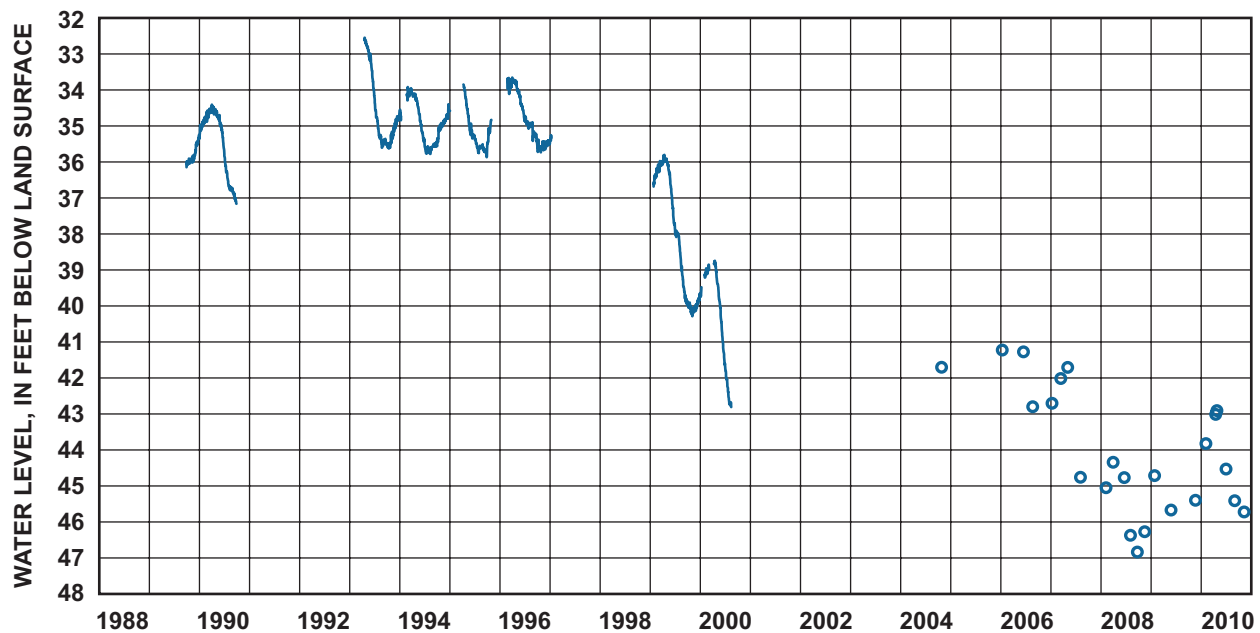


Figure 23. Period-of-record hydrograph for well BRN-0355 (Black Creek).

### Tertiary Sand Aquifer

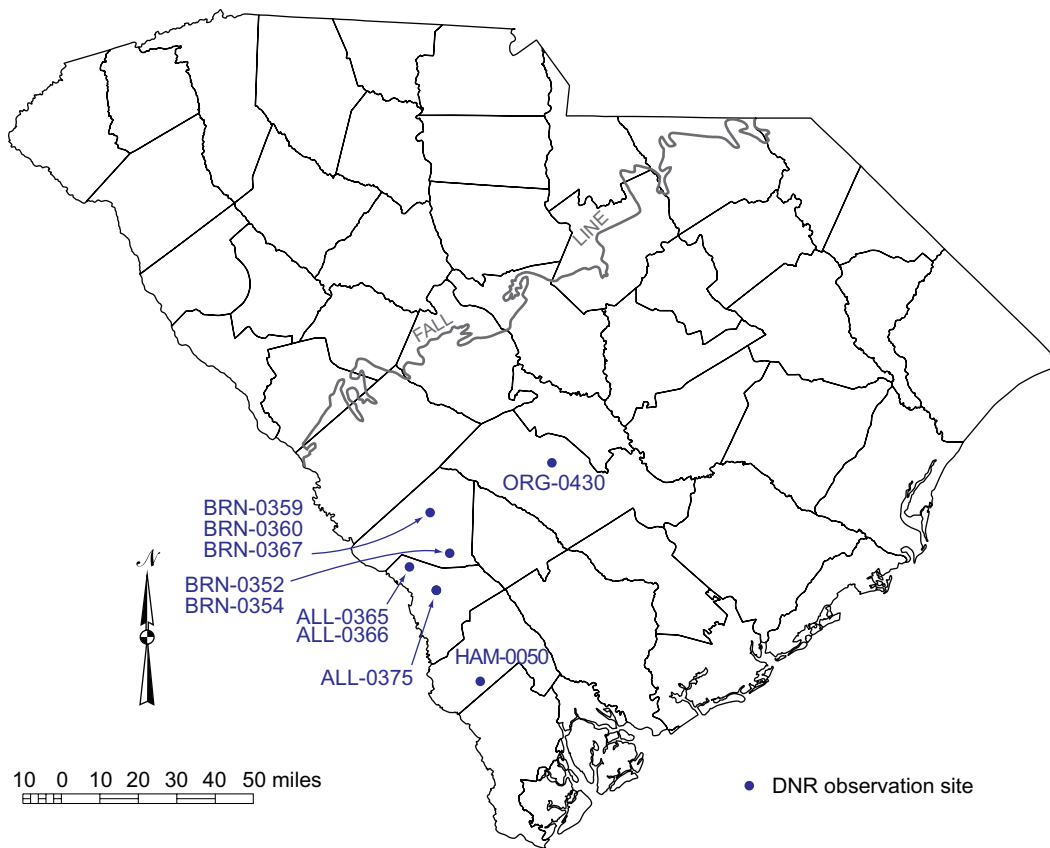
Aucott and others (1987) divided the Tertiary sand aquifer into two parts. The upper part consists of fine- to coarse-grained sand of the Barnwell Group, McBean Formation, and Congaree Formation. They are the sand-facies equivalent of the Floridan aquifer and extend from the vicinity of the Fall Line to the updip limit of the Floridan aquifer. In Allendale, Bamberg, Barnwell, and Aiken Counties the Congaree Formation is the principal water-bearing unit, and the Barnwell Group and McBean Formation tend to be poorly productive and more significant as confining units. Logan and Euler (1989) reported individual wells completed in the Congaree yield up to 660 gpm and have specific capacities of about 10 gpm/ft.

The lower part of the Tertiary-sand aquifer underlies all of the Floridan aquifer, extends westward into the middle Coastal Plain, and consists principally of the Paleocene-age Black Mingo Formation. The upper 50 to 100 ft of the formation consists of interbedded fine- to medium-grained sand and silty sand, carbonaceous and silty clay, sandstone, and sandy limestone. The section is the only significant water-bearing unit in the Tertiary-sand aquifer east of its outcrop area. In conjunction with the overlying Floridan aquifer, this unit is widely used in Berkeley, Charleston, Dorchester, Colleton, and eastern Hampton

Counties. Open-hole Floridan/Tertiary-sand wells there commonly yield several hundred gallons per minute and locally may produce more than 500 gpm. Wells open only to the Black Mingo Formation are rare and usually produce less than 300 gpm. Because its transmissivity is low, that formation is used mainly where the overlying Floridan aquifer is poorly productive.

Water levels were measured from 10 wells completed in the Tertiary sand aquifer from 2006 through 2010 (Fig. 24). Water levels in these wells fluctuated from 4 to 20 ft over the five-year period (Appendix F). The maximum water level change occurred in well ALL-0365, which had a 20-ft drop from January 2006 to August 2007. The water level in well ORG-0430, located in downtown Orangeburg, dropped about 10 ft in a single year (2007). Seasonal water-level fluctuations are evident on most of the hydrographs, with high water levels occurring during the late winter and early spring months (February–May) and lows occurring most often from late summer to early fall (August–November). Most of the lows observed on the hydrographs occurred either in 2007 or 2008, corresponding to the height of the drought.

Of the ten wells monitored in the aquifer, four were also monitored during the 1998–2002 drought. Two of the four wells had record lows during the period from 2006 to 2010 (Table 9).



**Figure 24. Location of Tertiary sand aquifer observation wells.**

*Long-term trends in the Tertiary sand aquifer*

Water levels in the Tertiary sand aquifer have declined from about 6 to 15 ft in Allendale and Barnwell Counties since the mid-1990s, similar to patterns observed in the Middendorf and Black Creek aquifers in these counties (Figs. 25 and 26). This pattern suggests that aquifers have not fully recovered to levels observed before the 1998–2002 drought.

**Floridan Aquifer**

The Floridan aquifer in South Carolina is the northern-most part of one of the most extensive and prolific ground-water sources in North America. It primarily consists of the Middle Eocene Santee Limestone and, in southern and southwestern South Carolina, the Upper Eocene Ocala Limestone. It also encompasses, and is confined by,

the Oligocene Cooper Formation in Charleston, Berkeley, Dorchester, and Colleton Counties. The top of the aquifer occurs within 100 ft of land surface, except in southernmost Beaufort and Jasper Counties. Typically, more than 80 percent of the Floridan’s thickness is relatively impermeable owing to the widespread occurrence of impure, clayey to sandy limestone and of limestone having interstitial-calcite precipitate; however, sections of clean, permeable, bioclastic limestone are found throughout the Floridan’s range of occurrence. These permeable sections yield adequate water for domestic use, small public-supply systems, and light industry, and, locally, they can yield up to 3,000 gpm to individual wells.

The Floridan aquifer outcrops along the Santee River and Wateree River valleys and from eastern Orangeburg County through western Allendale County. The limestone there commonly exceeds 95-percent calcium carbonate,

**Table 9. Recent record-low water levels in the Tertiary sand aquifer**

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
ALL-0366	130.10 ft bls (7/24/2002)	135.07 ft bls (8/2/2007)	4.97
ALL-0375	157.68 ft bls (10/9/2002)	160.88 ft bls (9/22/2008)	3.20

bls: below land surface

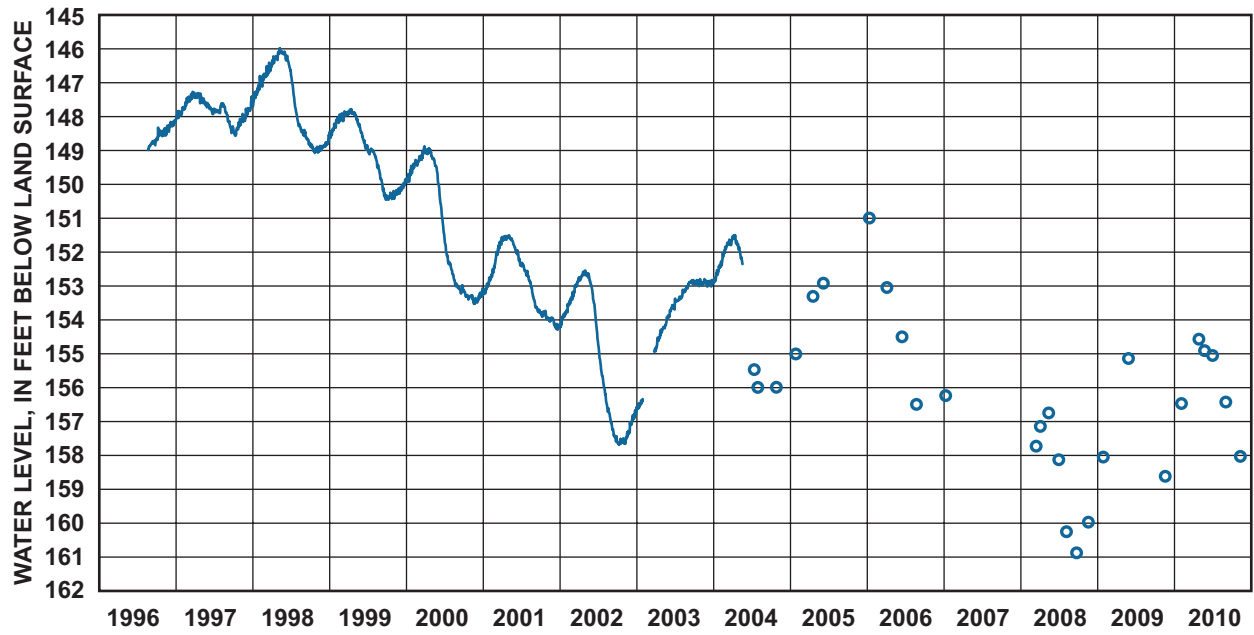


Figure 25. Period-of-record hydrograph for well ALL-0375 (Tertiary sand).

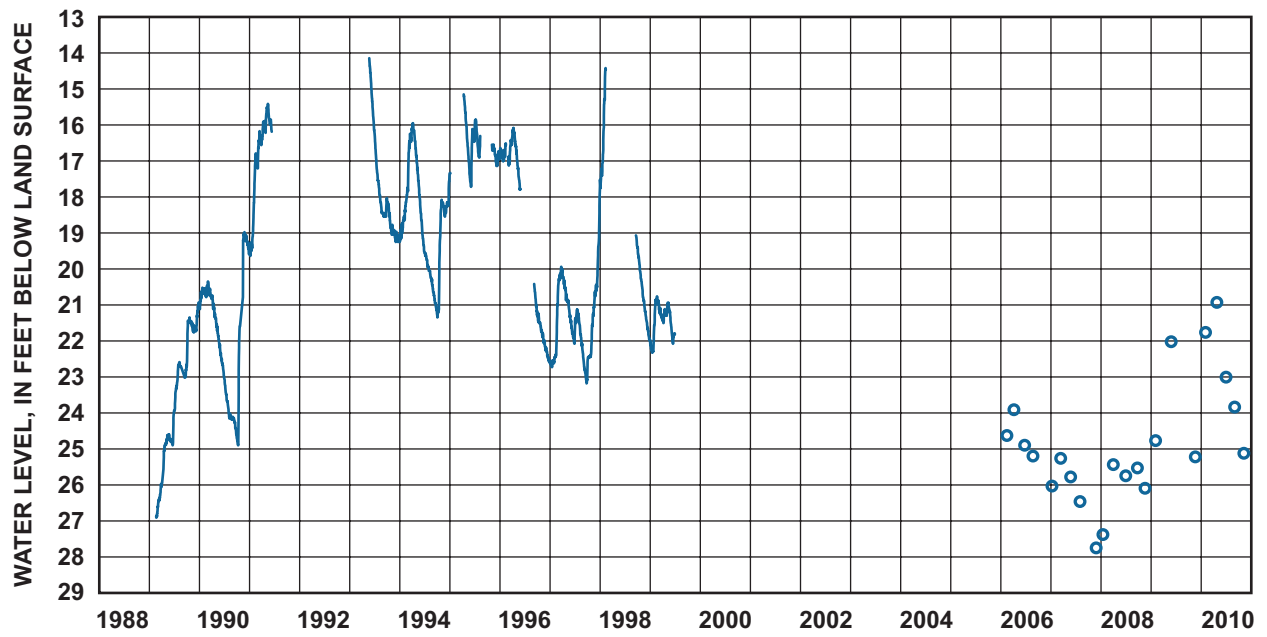


Figure 26. Period-of-record hydrograph for well BRN-0360 (Tertiary sand).



has enlarged secondary porosity owing to dissolution, and locally exhibits cavern and sinkhole formation. The surface of the Santee Limestone and Ocala Limestone components, and the permeable units associated with them, dip gently southeastward from 100 ft msl to -200 ft msl. The low-permeability, arenaceous limestone of the Oligocene Cooper Formation overlies the Santee in most of Charleston, Berkeley, and Dorchester Counties, grades into the Ocala Limestone to the southeast, and thickens to more than 250 ft in southern Charleston County. Owing to this geologic complexity, four important and distinct permeable zones occur in the Floridan aquifer.

Limestone in the outcrop area forms the inland-most permeable zone and is a major avenue for recharge: there, meteoric water has circulated through the pure limestone at shallow depth, secondary porosity is common and well developed, hydraulic conductivity is high, and water-table to poorly confined conditions predominate. The limestone downdip of the subcrop region becomes increasingly arenaceous and confining, and ground water typically is obtained from two thin and well-separated permeable zones.

The northern zone, underlying Charleston, Berkeley, Dorchester, Colleton, and eastern Hampton Counties, occurs near the base of the Santee Limestone at 50 to -500 ft msl: it typically is 5 to 20 ft thick, is moderately permeable, and, in conjunction with underlying sand of the Tertiary-sand aquifer, yields 100 to 400 gpm to individual wells. The southern zone, underlying Jasper County, western Hampton County, and southern Beaufort County, occurs at the top of the Santee Limestone at 0 to -500 ft msl: it typically is 20 to 40 ft thick, has transmissivities as great as 200,000 gpd/ft, and can provide up to 1,000 gpm to individual wells. The geographic distribution of the southern zone roughly coincides with the upper permeable zone of the Ocala Limestone.

The upper permeable zone is the principal source of ground-water supply in Beaufort, Jasper, Hampton, and Allendale Counties. It occurs within the upper 100 ft of the Ocala Limestone, and the top of the unit ranges from -20 ft msl at Beaufort to -250 ft msl near Savannah, Ga. It is as much as 100 ft thick in southern Jasper County and has transmissivities up to 450,000 gpd/ft. Yields as great as 3,000 gpm are reported, and those exceeding 500 gpm are common.

Water levels were measured from 27 wells completed in the Floridan aquifer during 2006–2010 (Fig. 27). Water levels in these wells fluctuated from 2 to 20 ft over the five-year period (Appendix G). Well COL-0016, located in downtown Walterboro, had the greatest change, declining about 20 ft between 2006 and 2008. Some wells, particularly wells inland of coastal areas, had their lowest water levels recorded in September–November of 2007 and 2008, owing mainly to the drought. Wells ORG-0393 and BRK-0644, for example, had lows in September–No-

vember of 2007. Wells in coastal counties, however, generally had their lowest water levels in the summer months, typically from June–August. Well CHN-0484 had its all-time low on July 1, 2007. Wells in Beaufort County had water-level lows primarily in June, July, or early August. These wells include BFT-0101, -0429, -1814, -1822, -1845, and -1846. These low water levels that occur in the summer months as opposed to early fall, when they typically occur in other areas of the State, are probably due to increased pumping from the aquifer for landscape and crop irrigation during the summer months.

Of the 27 wells completed in the Floridan aquifer system, water levels from 19 wells were also measured during the 1998–2002 drought. Nine of the 19 wells had record low water levels over the past five years, exceeding even those that occurred during the 1998–2002 drought (Table 10).

#### *Long-term trends in the Floridan aquifer*

Water levels in BFT-0101 have shown a slight recovery during the past ten years after a steady decline throughout the 1970s and 1980s; however, seasonal fluctuations have increased from 1–2 ft to 4–9 ft during the same period (Fig. 28). Well BFT-0429 has seen overall water levels remain steady after a decline of approximately 5 ft during the 1970s and 1980s (Fig. 29). Similar to BFT-0101, the magnitude of seasonal fluctuations in this well has increased from 1–2 ft to 5–7 ft during the past several decades.

Wells COL-0301 and CHN-0484, both located near Edisto Beach, have seen water-level declines of about 8 and 12 ft, respectively, since 2000 (Figs. 30 and 31). The water level in well CHN-0044 has declined about 20 ft since the early 1980s (Fig. 32), and well COL-0097 has seen a decline of about 20 ft since the late 1970s (Fig. 33).

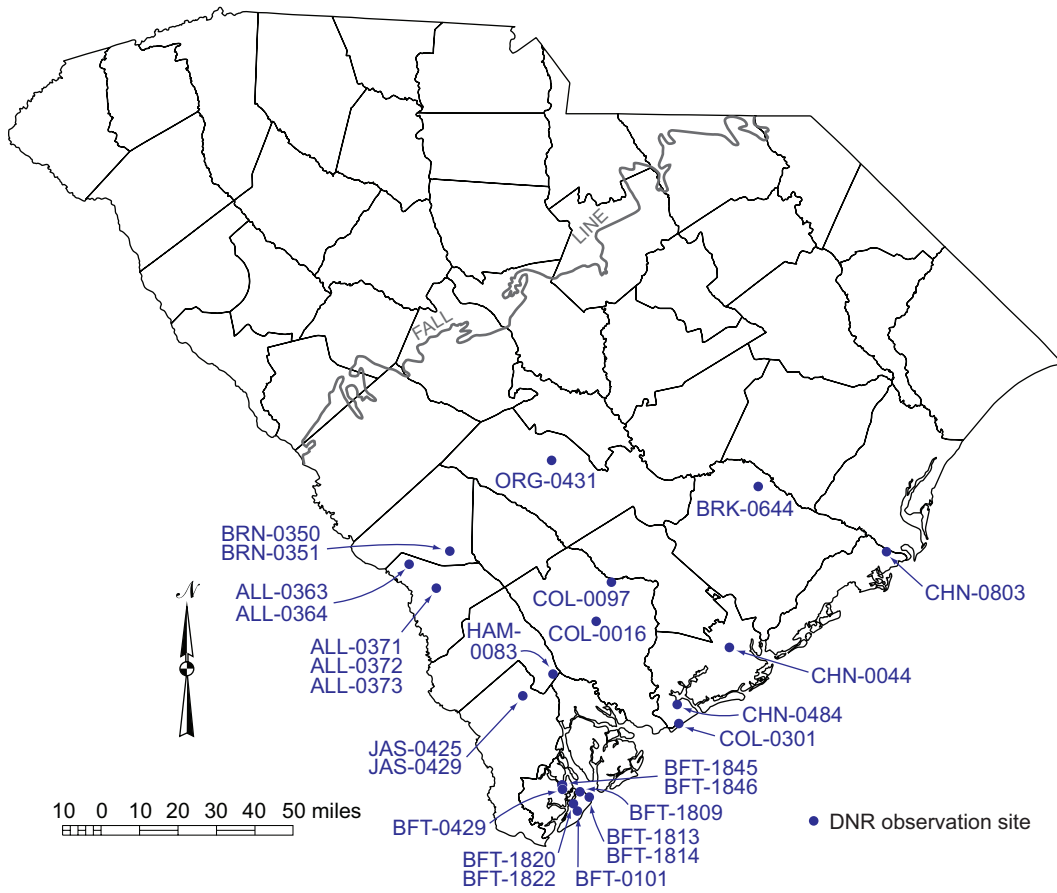


Figure 27. Location of Floridan aquifer observation wells.

Table 10. Recent record-low water levels in the Floridan aquifer

Well	Previous record low (Date)	New record low (Date)	Difference (ft)
ALL-0363	84.79 ft bls (3/24/2003)	86.16 ft bls (5/29/2009)	1.37
ALL-0364	85.33 ft bls (1/30/2003)	87.22 ft bls (11/17/2009)	1.89
BFT-0429	32.35 ft bls (6/17/2002)	32.69 ft bls (6/1/2007)	0.34
CHN-0044	36.39 ft bls (9/27/2005)	41.66 ft bls (9/25/2010)	5.27
CHN-0484	31.26 ft bls (6/27/2005)	37.22 ft bls (7/1/2007)	5.96
COL-0016	86.22 ft bls (7/30/2002)	94.31 ft bls (8/21/2008)	8.09
COL-0097	55.33 ft bls (8/22/2002)	59.40 ft bls (10/7/2008)	4.07
COL-0301	33.27 ft bls (6/18/2005)	35.71 ft bls (8/17/2008)	2.44
HAM-0083	44.45 ft bls (8/13/2002)	46.23 ft bls (12/19/2007)	1.78

bls: below land surface

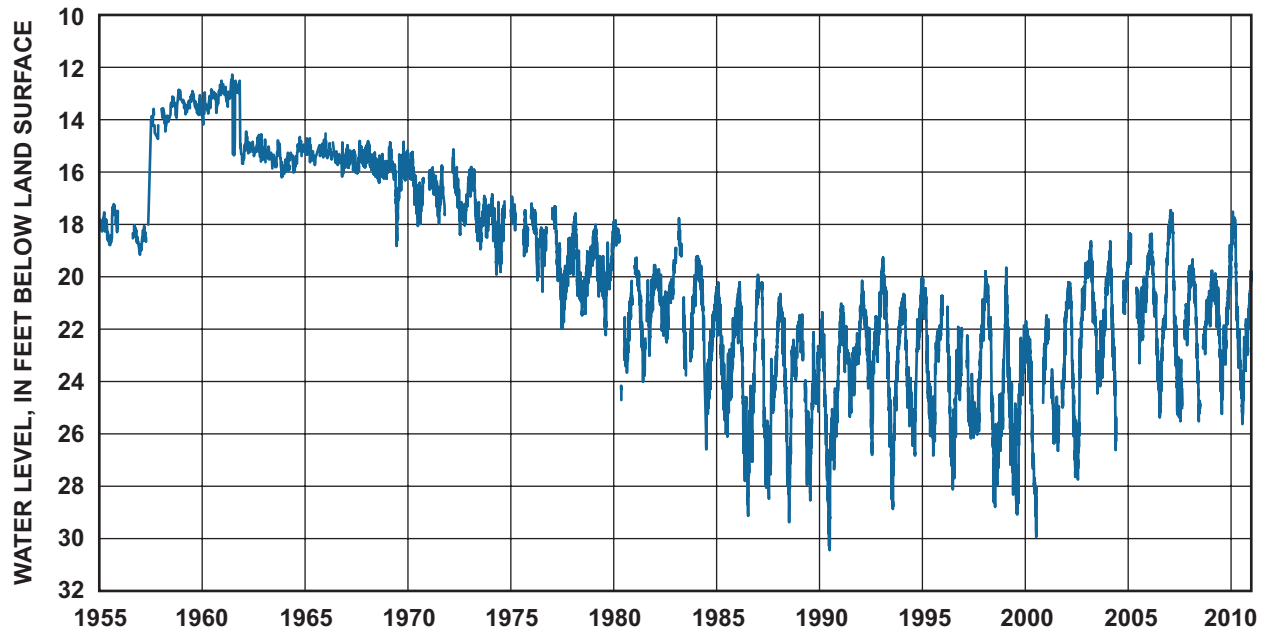


Figure 28. Period-of-record hydrograph for well BFT-0101 (Floridan).

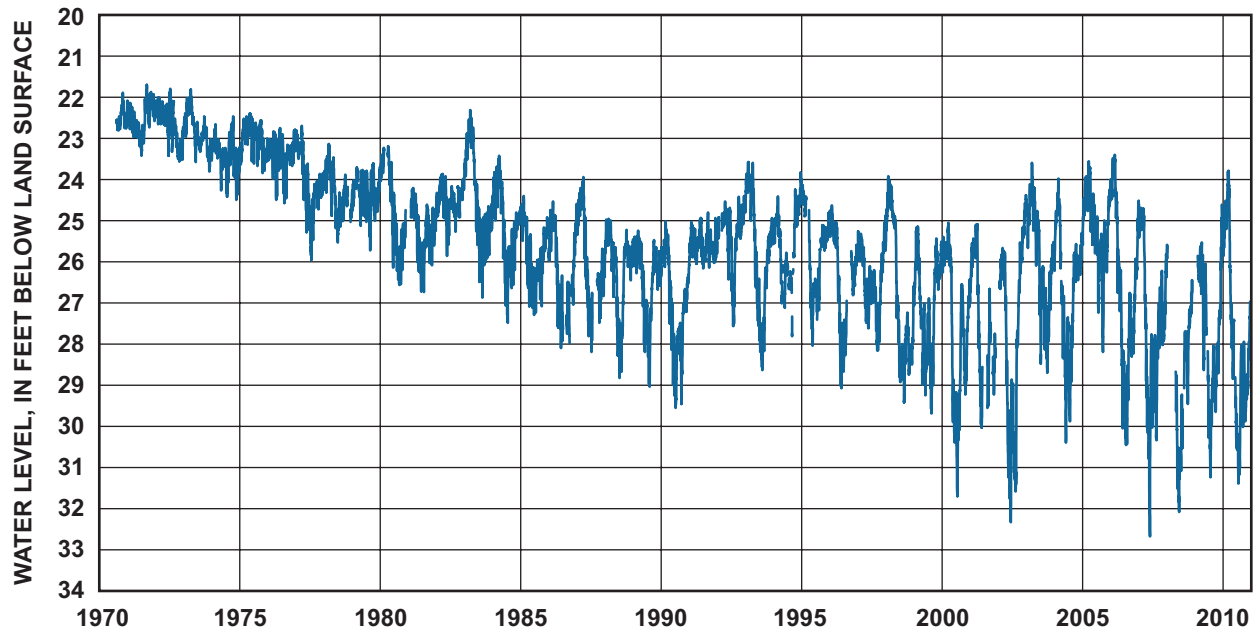


Figure 29. Period-of-record hydrograph for well BFT-0429 (Floridan).

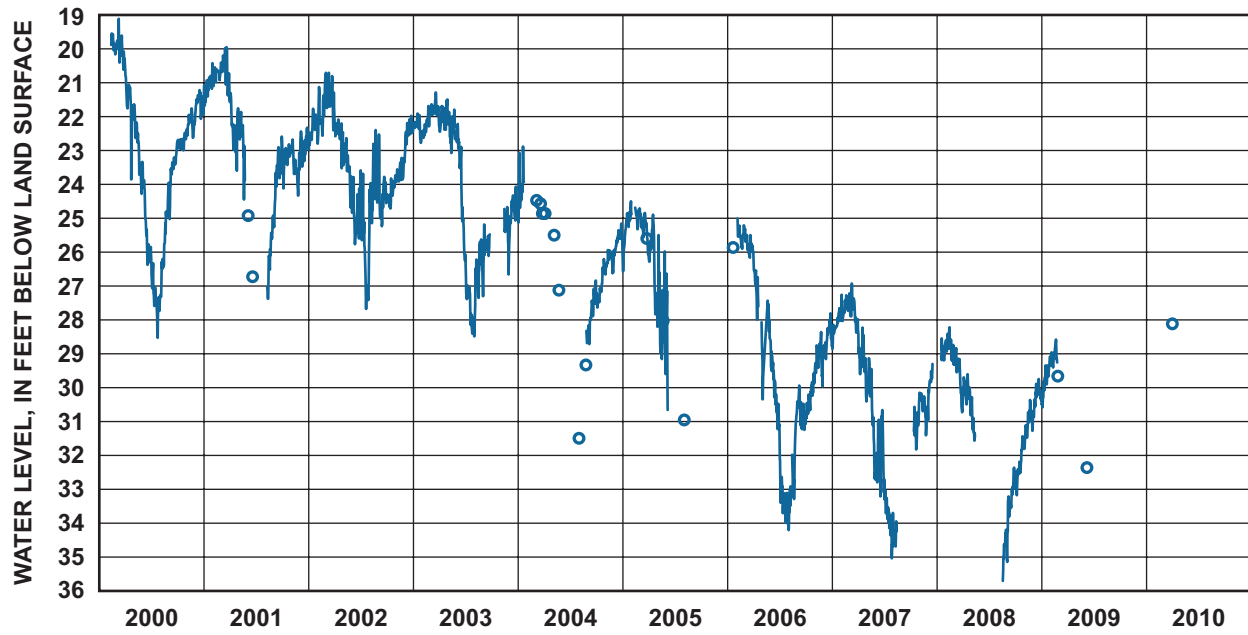


Figure 30. Period-of-record hydrograph for well COL-0301 (Floridan).

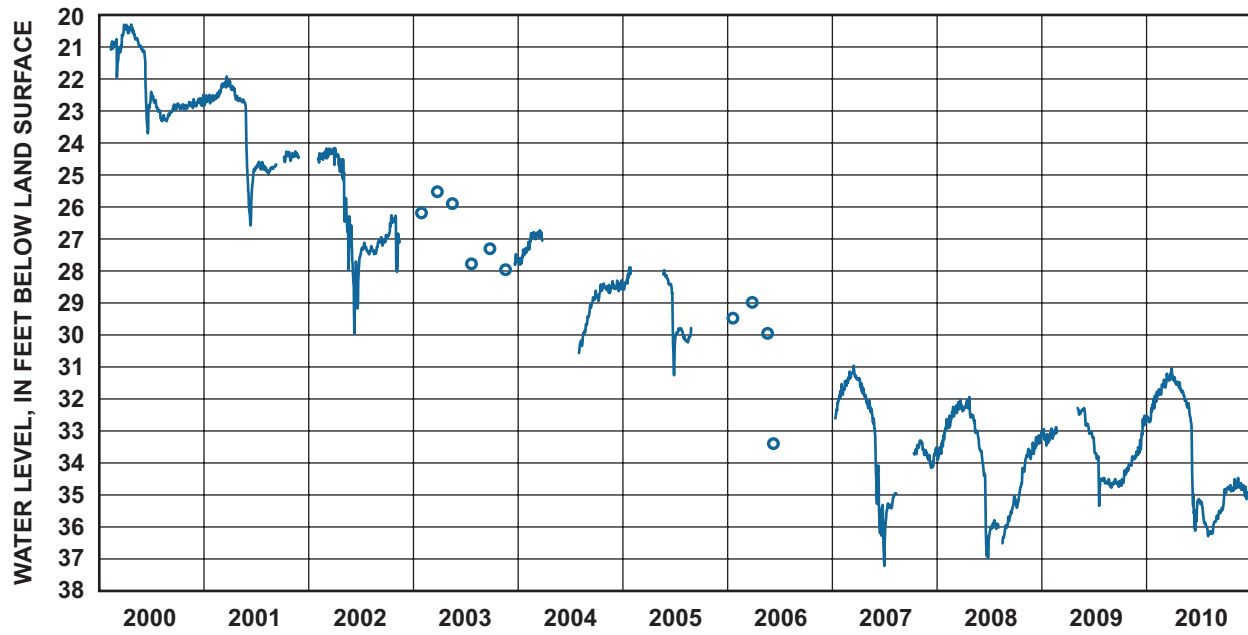


Figure 31. Period-of-record hydrograph for well CHN-0484 (Floridan).

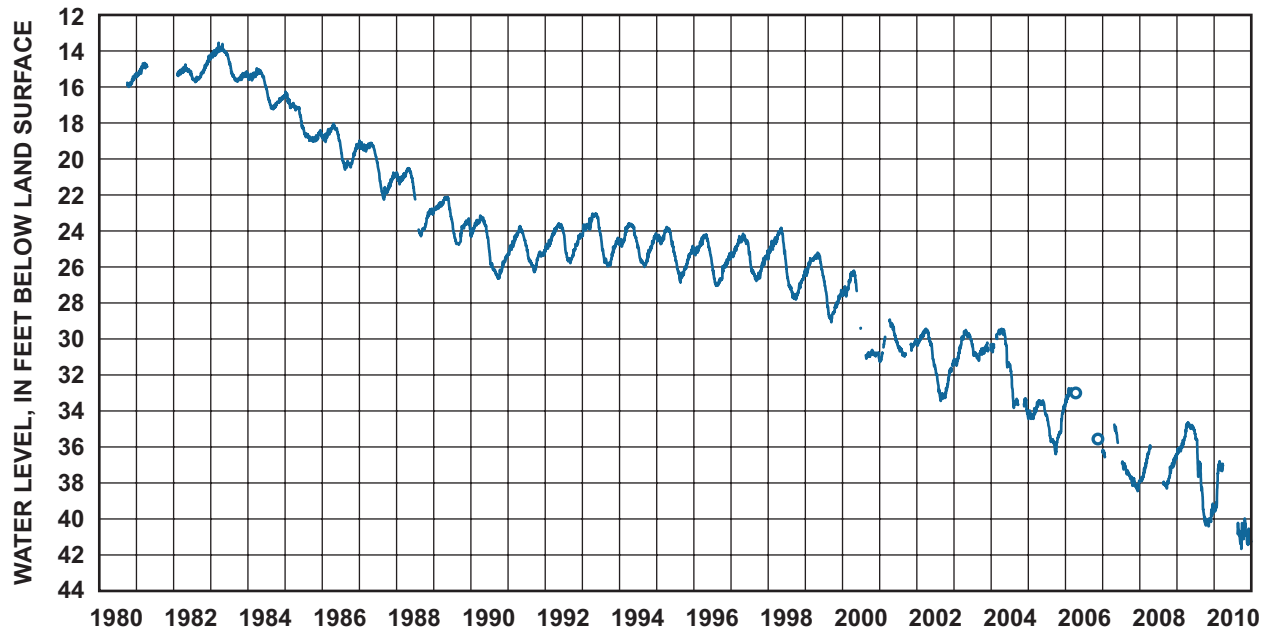


Figure 32. Period-of-record hydrograph for well CHN-0044 (Floridan).

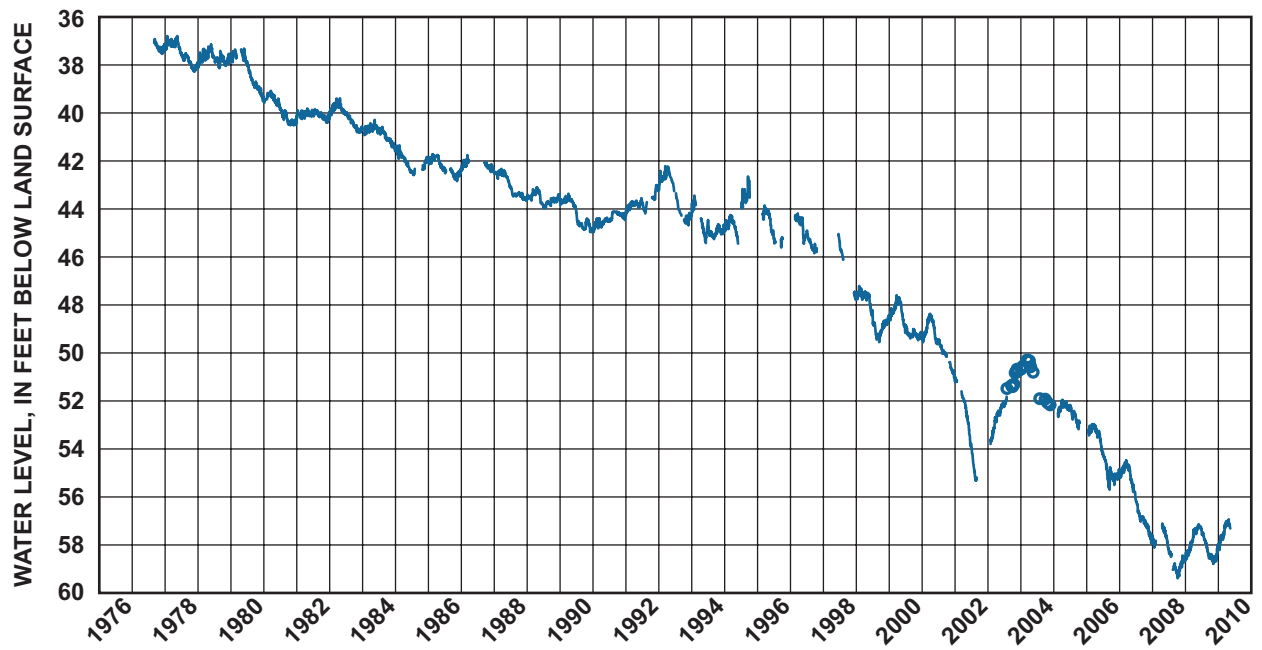


Figure 33. Period-of-record hydrograph for well COL-0097 (Floridan).

## REFERENCES

- Aadland, R.K., Gellici, J.A., and Thayer, P.A., 1995, Hydrogeologic framework of west-central South Carolina: South Carolina Department of Natural Resources, Water Resources Division Report 5, 200 p.
- Agerton, K.E., Park, A.D., Gawne, C.E., and Wachob, A., 2007, Water resources data for South Carolina, 2000–2005: South Carolina Department of Natural Resources, Water Resources Report 41, 91 p.
- Aucott, W.R., Davis, M.E., and Speiran, G.K., 1987, Geohydrologic framework of the Coastal Plain aquifers of South Carolina: U.S. Geological Survey Water-Resources Investigation Report 85-4271, 7 sheets.
- Campbell, B.G., and Coes, A.L., eds., 2010, Groundwater availability in the Atlantic Coastal Plain of North and South Carolina: U.S. Geological Survey Professional Paper 1773, 241 p.
- Gawne, Constance E., 1994, Water-level measurements and potentiometric maps for 1991–1993 Beaufort, Colleton, Hampton, and Jasper Counties, South Carolina, with selected hydrographs for 1975–1993: South Carolina Water Resources Commission, Open-File Report 43, 26 p., 11 sheets.
- Gellici, J.A., Kiuchi, M., Harwell, S.L., and Badr, A.W., 2004, Hydrologic effects of the June 1998–August 2002 drought in South Carolina: South Carolina Department of Natural Resources, Water Resources Report 34, 49 p.
- Gellici, J.A., and Lautier, J.C., 2010, Hydrogeologic framework of the Atlantic Coastal Plain, North and South Carolina, in Campbell, B.G., and Coes, A.L., eds., Groundwater availability in the Atlantic Coastal Plain of North and South Carolina: U.S. Geological Survey Professional Paper 1773, p. 49-162.
- Harwell, S.L., Park, A.D., Hockensmith, B.L., and Gawne, C.E., 2004, Water resources data for South Carolina 2000–2001: South Carolina Department of Natural Resources, Water Resources Report 31, 86 p.
- Hockensmith, B.L., 1997, Potentiometric surface of the Black Creek aquifer system in South Carolina–November 1995: South Carolina Department of Natural Resources, Water Resources Report 16, 1 sheet.
- 2001, Potentiometric map of the Floridan aquifer and Tertiary sand aquifer in South Carolina–1998: South Carolina Department of Natural Resources, Water Resources Report 23, 1 sheet.
- 2003a, Potentiometric surface of the Middendorf aquifer system–November 2001: South Carolina Department of Natural Resources, Water Resources Report 28, 1 sheet.
- 2003b, Potentiometric surface of the Black Creek aquifer system–November 2001: South Carolina Department of Natural Resources, Water Resources Report 29, 1 sheet.
- 2008a, Potentiometric surface of the Middendorf aquifer in South Carolina, November 2004: South Carolina Department of Natural Resources, Water Resources Report 46, 1 sheet, 11 p.
- 2008b, Potentiometric surface of the Black Creek aquifer in South Carolina, November 2004: South Carolina Department of Natural Resources, Water Resources Report 47, 1 sheet, 10 p.
- 2009, Potentiometric surface of the Floridan aquifer and Tertiary sand aquifer in South Carolina, November 2004: South Carolina Department of Natural Resources, Water Resources Report 48, 1 sheet, 20 p.
- Hockensmith, B.L., and Waters, K.E., 1998, Potentiometric map of the Middendorf aquifer in South Carolina–November 1996: South Carolina Department of Natural Resources, Water Resources Report 19, 1 sheet.
- Logan, W.R., and Euler, G.M., 1989, Geology and ground-water resources of Allendale, Bamberg, and Barnwell Counties and part of Aiken County, South Carolina: South Carolina Water Resources Commission Report 155, 113 p.
- Newcome, Roy, Jr., 2000, Results of pumping tests in the Coastal Plain of South Carolina–Supplement to S.C. Water Resources Commission Report 174: South Carolina Department of Natural Resources, Water Resources Open File Report 5, 26 p.
- Waters, K.E., 2003, Water levels in South Carolina–A compilation of historical water-level data: South Carolina Department of Natural Resources, Land, Water and Conservation Division Report 26, 300 p.

## APPENDICES

### Hydrographs showing ground-water levels from 2006 through 2010

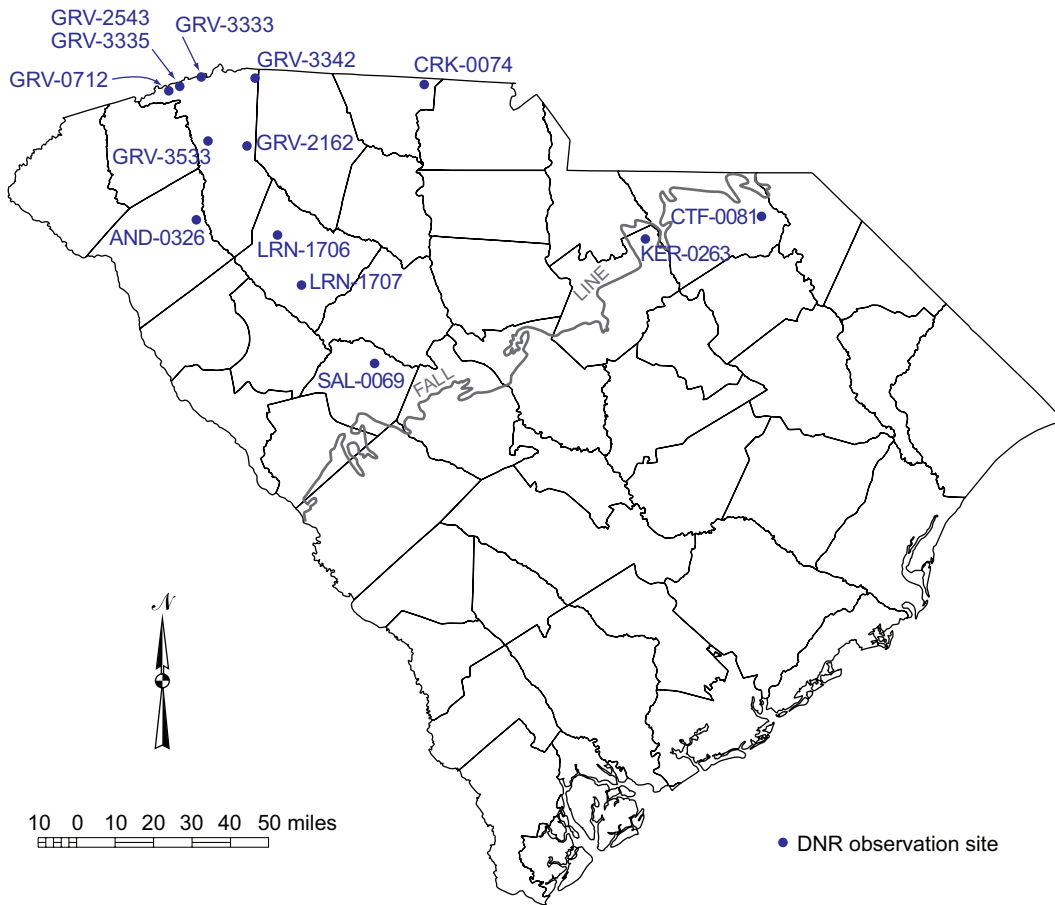
<u>Appendix</u>	<u>Page</u>
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D: Middendorf aquifer .....	61
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## APPENDIX A

### Ground-water levels in the crystalline-rock aquifer, 2006–2010



**ANDERSON COUNTY**

**WELL NUMBER:** AND-0326

**LATITUDE:** 34° 37' 22"

**GRID NUMBER:** 48H-n2

**LONGITUDE:** 82° 28' 55"

**LOCATION:** Williamston.

**AQUIFER:** Crystalline rock.

**WELL CHARACTERISTICS:** 8.25-inch diameter observation well. Depth: 398 ft. Open hole below 75 ft.

**LAND SURFACE ELEVATION:** 795 ft (map estimate) above National Geodetic Vertical Datum of 1929.

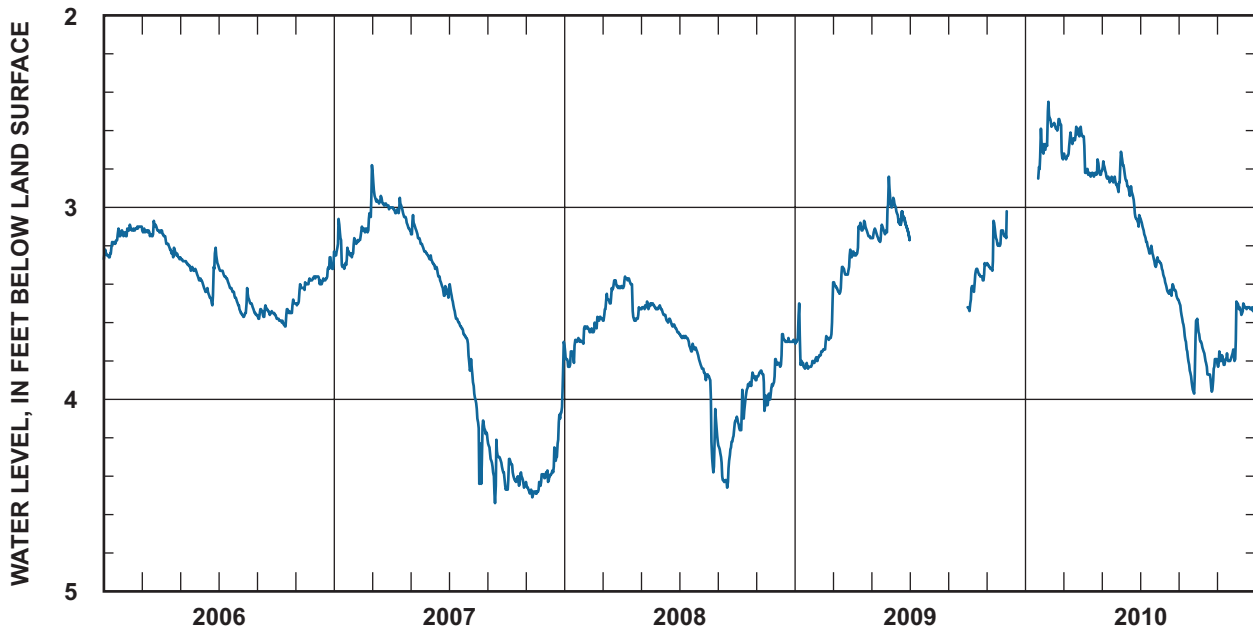
**MEASURING POINT:** Top of casing, 1.10 ft above land surface.

**PERIOD OF RECORD:** October 1993 to current year.

**EXTREMES:** Highest water level: 1.90 ft below land surface, April 23, 1998.

Lowest water level: 5.64 ft below land surface, June 24, 2002.

**REMARKS:** Monitored by USGS until December 2009, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	3.11	3.09	3.07	3.12	3.26	3.21	3.30	3.42	3.51	3.48	3.36	3.26	3.07 (Mar 21)
MEAN	3.19	3.12	3.12	3.20	3.31	3.39	3.39	3.52	3.55	3.56	3.42	3.35	3.34
LOW	3.27	3.15	3.15	3.26	3.37	3.51	3.49	3.57	3.58	3.62	3.51	3.40	3.62 (Oct 15)
<b>2007</b>													
HIGH	3.06	3.03	2.78	2.95	3.04	3.25	3.40	3.71	4.21	4.31	4.39	3.70	2.78 (Mar 2)
MEAN	3.24	3.13	2.96	3.03	3.17	3.36	3.57	4.06	4.34	4.41	4.46	4.25	3.67
LOW	3.32	3.19	3.01	3.11	3.26	3.46	3.69	4.44	4.54	4.47	4.51	4.43	4.54 (Sep 13)
<b>2008</b>													
HIGH	3.68	3.57	3.38	3.36	3.49	3.52	3.66	3.79	4.09	3.86	3.79	3.66	3.36 (Apr 6)
MEAN	3.74	3.62	3.46	3.46	3.52	3.59	3.71	3.99	4.29	3.99	3.93	3.73	3.75
LOW	3.83	3.65	3.59	3.59	3.53	3.65	3.77	4.38	4.46	4.16	4.06	3.83	4.46 (Sep 15)
<b>2009</b>													
HIGH	3.50	3.60	3.22	3.07	2.84	2.95	--	--	--	3.29	3.07	--	--
MEAN	3.78	3.73	3.36	3.16	3.10	3.05	--	--	--	3.39	3.20	--	--
LOW	3.84	3.80	3.48	3.25	3.18	3.15	--	--	--	3.54	3.33	--	--
<b>2010</b>													
HIGH	2.59	2.45	2.58	2.63	2.76	2.71	3.05	3.28	3.49	3.62	3.69	3.49	2.45 (Feb 6)
MEAN	2.97	2.59	2.66	2.79	2.84	2.92	3.20	3.40	3.72	3.80	3.79	3.52	3.18
LOW	4.69	2.74	2.75	2.84	2.92	3.10	3.31	3.48	3.97	3.96	3.83	3.56	4.69 (Jan 19)

CHEROKEE COUNTY

WELL NUMBER: CRK-0074

GRID NUMBER: 36B-b16

LOCATION: Blacksburg.

AQUIFER: Crystalline rock.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 265 ft. Open hole below 99 ft.

LAND SURFACE ELEVATION: 825 ft (map estimate) above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Top of casing, 1.30 ft above land surface.

PERIOD OF RECORD: March 1998 to current year.

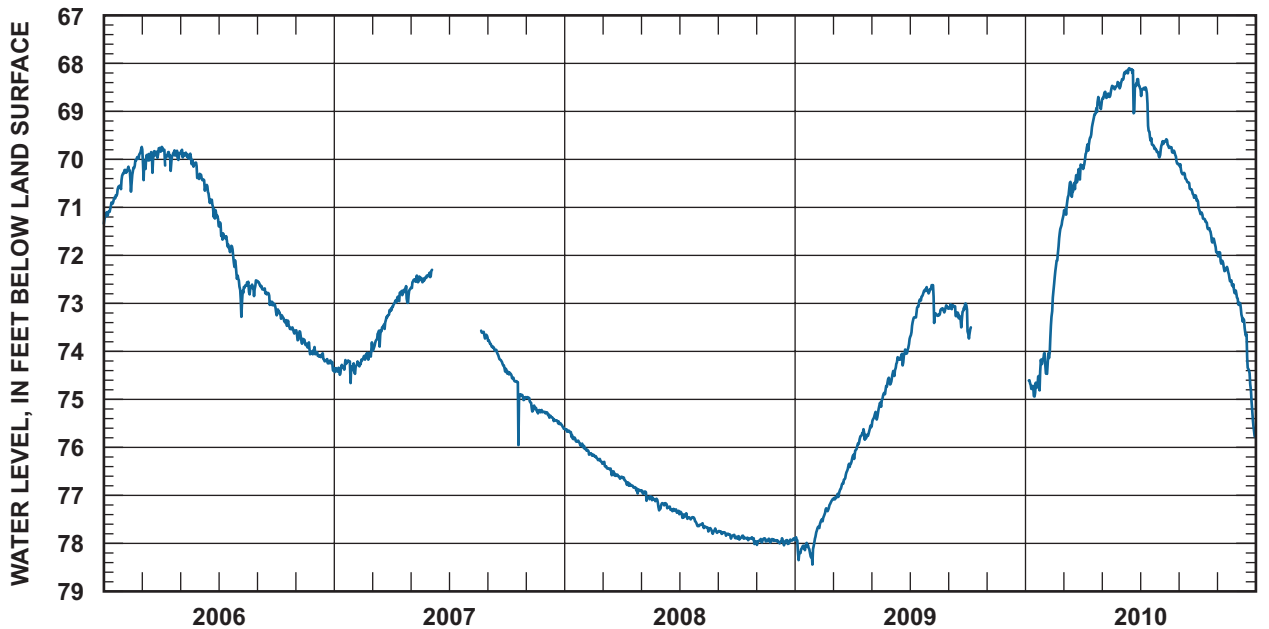
EXTREMES: Highest water level: 54.45 ft below land surface, August 31, 2003.

Lowest water level: 78.44 ft below land surface, January 28, 2009.

REMARKS: Monitored by USGS until October 2009, then by DNR to current year.

LATITUDE: 35° 09' 19"

LONGITUDE: 81° 26' 34"



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	70.30	69.85	69.74	69.74	69.80	70.30	71.25	72.42	72.53	73.13	73.56	73.91	69.74 (Mar 2)†
	MEAN	70.85	70.17	69.94	69.90	70.00	70.73	71.78	72.68	72.80	73.38	73.82	74.15	71.68
	LOW	71.34	70.67	70.43	70.24	70.39	71.23	72.49	73.28	73.09	73.63	74.06	74.41	74.41 (Dec 31)
<b>2007</b>	HIGH	74.18	74.03	73.14	72.64	72.41	72.30	--	73.57	73.71	74.38	74.95	75.26	72.30 (Jun 5)
	MEAN	74.34	74.19	73.58	72.89	72.52	72.38	--	73.64	74.04	74.72	75.16	75.42	73.90
	LOW	74.66	74.47	73.99	73.14	72.71	72.45	--	73.73	74.42	75.95	75.29	75.61	75.95 (Oct 20)
<b>2008</b>	HIGH	75.61	75.97	76.30	76.61	76.89	77.16	77.34	77.58	77.74	77.84	77.89	77.89	75.61 (Jan 1)
	MEAN	75.80	76.16	76.49	76.78	77.05	77.26	77.46	77.69	77.81	77.90	77.94	77.95	77.19
	LOW	76.00	76.30	76.65	76.96	77.31	77.36	77.64	77.80	77.90	78.01	78.03	78.04	78.04 (Dec 14)
<b>2009</b>	HIGH	77.87	77.10	76.29	75.55	74.55	73.85	72.66	72.62	73.00	73.50	--	--	72.62 (Aug 5)†
	MEAN	78.11	77.46	76.75	75.86	75.07	74.21	73.08	73.05	73.16	73.60	--	--	75.04
	LOW	78.44	77.90	77.08	76.24	75.58	74.68	73.74	73.41	73.50	73.73	--	--	78.44 (Jan 28)
<b>2010</b>	HIGH	74.03	71.28	70.11	68.70	68.39	68.10	68.50	69.58	70.10	70.88	71.93	72.80	68.10 (Jun 14)
	MEAN	74.58	72.84	70.62	69.41	68.59	68.32	69.22	69.79	70.50	71.41	72.34	74.01	70.97
	LOW	74.94	74.47	71.21	70.20	68.86	69.04	69.93	70.10	70.86	71.93	72.79	75.78	75.78 (Dec 31)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

CHESTERFIELD COUNTY

WELL NUMBER: CTF-0081

LATITUDE: 34° 38' 35"

GRID NUMBER: 17H-f1

LONGITUDE: 79° 54' 42"

LOCATION: Cheraw, 2.5 miles south (Cheraw State Park).

AQUIFER: Crystalline rock (phyllite to schist).

WELL CHARACTERISTICS: 2-inch diameter observation well. Depth: 244 ft. Screened from 231 to 244 ft.

LAND SURFACE ELEVATION: 190 ft (map estimate) above National Geodetic Vertical Datum of 1929.

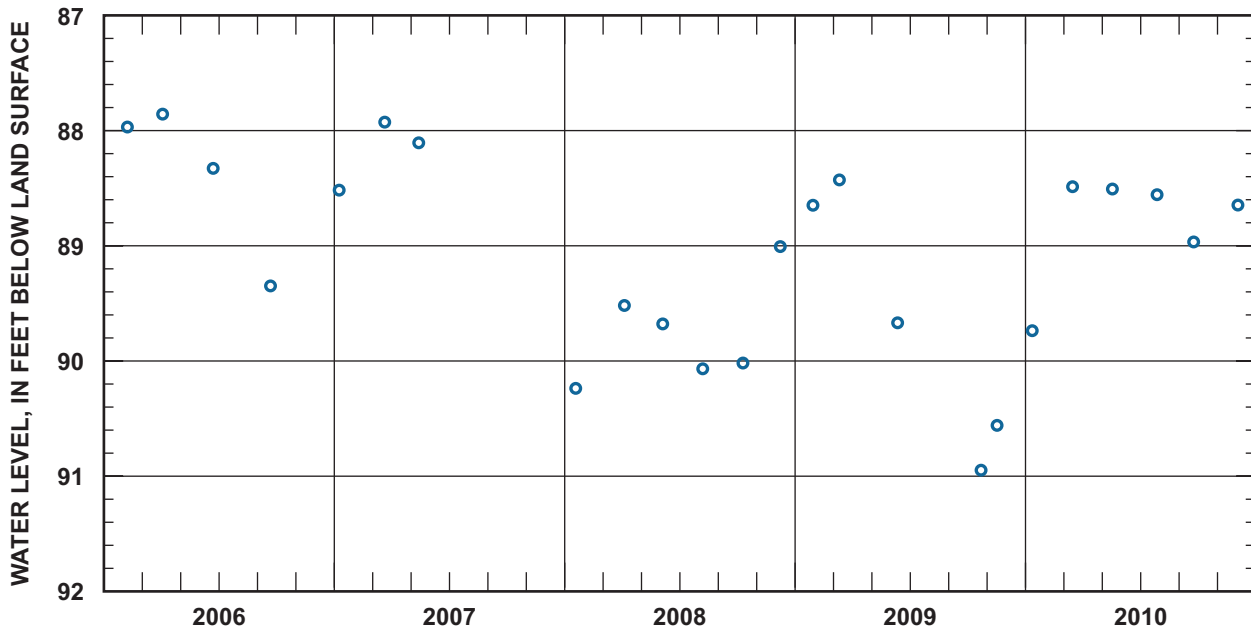
MEASURING POINT: Port in base of enclosure, 1.80 ft above land surface.

PERIOD OF RECORD: October 1999 to current year.

EXTREMES: Highest water level: 87.19 ft below land surface, March 28, 2000.

Lowest water level: 91.35 ft below land surface, August 27, 2002.

REMARKS: Drilled and cored for DNR/USGS aquifer delineation project.



**GREENVILLE COUNTY**

**WELL NUMBER:** GRV-0712

**LATITUDE:** 35° 06' 24"

**GRID NUMBER:** 50B-r1

**LONGITUDE:** 82° 37' 34"

**LOCATION:** Marietta, 8 miles northwest (Caesars Head State Park).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 450 ft. Open hole below 28 ft.

**LAND SURFACE ELEVATION:** 3,150 ft (map estimate) above National Geodetic Vertical Datum of 1929.

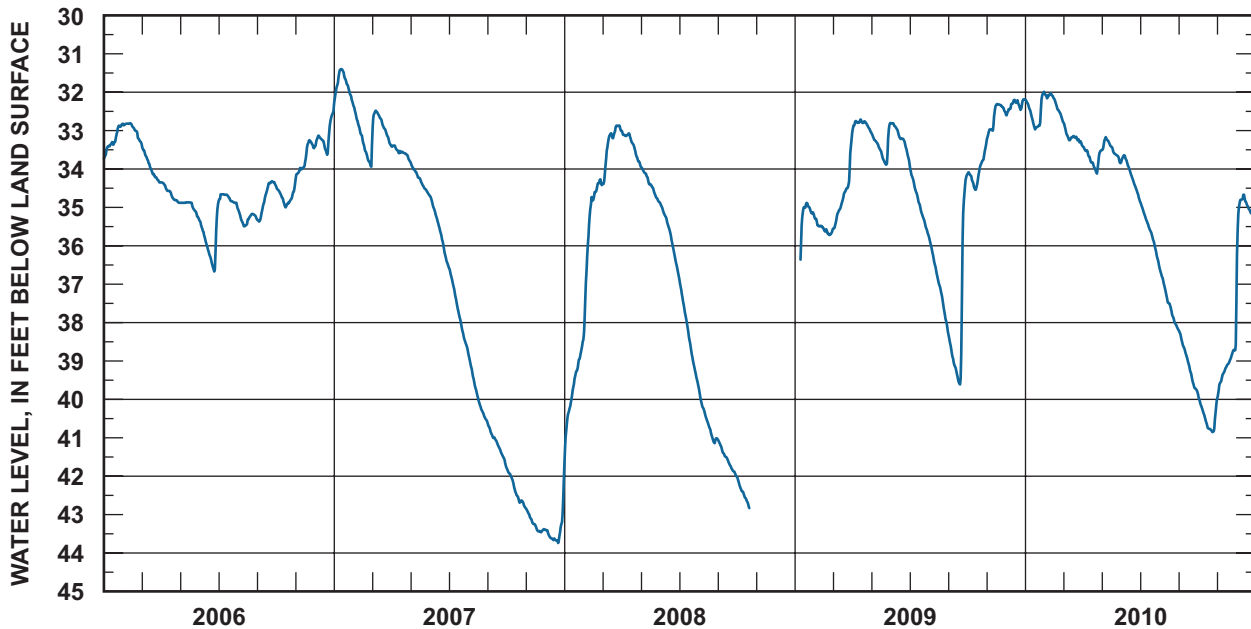
**MEASURING POINT:** Top of casing, 0.46 ft above land surface.

**PERIOD OF RECORD:** October 1993 to current year.

**EXTREMES:** Highest water level: 26.58 ft below land surface, August 18 and 19, 1994.

Lowest water level: 43.74 ft below land surface, December 22, 2007.

**REMARKS:** Monitored by USGS from October 1993 to July 2003, then by DNR to current year.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	32.82	32.81	33.31	34.35	34.87	35.06	34.66	35.03	34.32	34.37	33.25	32.48	32.48 (Dec 31)
	MEAN	33.24	32.95	33.92	34.61	34.96	35.93	34.77	35.28	34.74	34.73	33.73	33.17	34.34
	LOW	33.73	33.29	34.35	34.88	35.28	36.67	34.95	35.49	35.37	35.00	34.25	33.63	36.67 (Jun 25)
<b>2007</b>	HIGH	31.40	32.37	32.48	33.39	33.80	34.69	36.53	38.75	40.61	41.77	42.84	42.15	31.40 (Jan 12)†
	MEAN	31.80	33.19	32.89	33.54	34.25	35.51	37.62	39.81	41.14	42.35	43.24	43.45	37.40
	LOW	32.32	33.93	33.94	33.77	34.66	36.48	38.67	40.56	41.72	42.82	43.46	43.74	43.74 (Dec 22)
<b>2008</b>	HIGH	38.45	34.27	32.87	33.01	33.94	34.90	36.87	39.72	41.07	42.03	--	--	32.87 (Mar 24)†
	MEAN	39.69	35.27	33.32	33.34	34.40	35.70	38.31	40.59	41.58	42.45	--	--	37.47
	LOW	41.63	38.24	34.39	33.89	34.87	36.77	39.63	41.14	42.01	42.83	--	--	42.83 (Oct 20)
<b>2009</b>	HIGH	34.88	35.29	33.59	32.71	32.81	32.80	33.88	35.79	34.15	33.27	32.31	32.19	32.19 (Dec 28)†
	MEAN	35.17	35.54	34.88	32.83	33.41	33.15	34.86	36.96	37.83	34.06	32.62	32.34	34.47
	LOW	36.36	35.72	35.58	33.06	33.89	33.77	35.73	38.25	39.61	34.54	33.20	32.60	39.61 (Sep 19)
<b>2010</b>	HIGH	31.99	32.03	32.77	33.40	33.17	33.64	34.83	36.56	38.21	39.86	38.57	34.67	31.99 (Jan 30)
	MEAN	32.54	32.27	33.15	33.72	33.48	34.11	35.58	37.45	39.05	40.46	39.17	35.13	35.51
	LOW	32.97	32.71	33.37	34.12	33.85	34.78	36.48	38.19	39.79	40.85	39.94	37.50	40.85 (Oct 24)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## GREENVILLE COUNTY

**WELL NUMBER:** GRV-2162

**LATITUDE:** 34° 54' 16"

**GRID NUMBER:** 46E-a2

**LONGITUDE:** 82° 15' 48"

**LOCATION:** Greer (East Riverside Park).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 281 ft. Open hole below 83 ft.

**LAND SURFACE ELEVATION:** 875 ft (map estimate) above National Geodetic Vertical Datum of 1929.

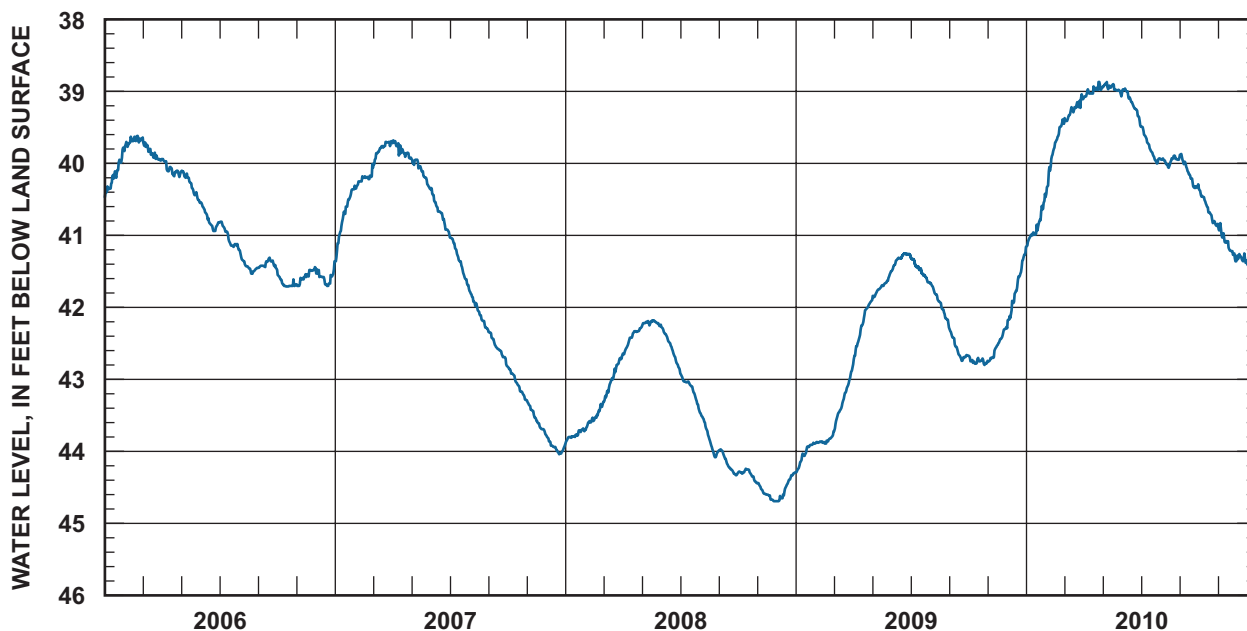
**MEASURING POINT:** Top of casing, 1.53 ft above land surface.

**PERIOD OF RECORD:** June 2001 to current year.

**EXTREMES:** Highest water level: 35.47 ft below land surface, July 10, 2003.

Lowest water level: 44.69 ft below land surface, November 26, 2008.

**REMARKS:** Monitored by USGS from June 2001 to July 2003, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	39.78	39.62	39.64	39.94	40.10	40.54	40.81	41.20	41.31	41.48	41.44	41.36	39.62 (Feb 21)†
	MEAN	40.16	39.69	39.84	40.07	40.29	40.77	41.01	41.41	41.40	41.66	41.57	41.58	40.79
	LOW	40.47	39.83	39.96	40.19	40.54	40.94	41.16	41.53	41.46	41.71	41.70	41.70	41.71 (Oct 15)†
<b>2007</b>	HIGH	40.36	40.17	39.69	39.68	39.92	40.34	40.99	41.74	42.34	42.82	43.29	43.77	39.68 (Apr 3)
	MEAN	40.75	40.23	39.81	39.81	40.09	40.67	41.33	42.04	42.55	43.05	43.54	43.93	41.48
	LOW	41.36	40.35	40.06	39.93	40.35	40.95	41.69	42.31	42.81	43.29	43.76	44.04	44.04 (Dec 22)
<b>2008</b>	HIGH	43.68	43.34	42.67	42.28	42.18	42.27	42.92	43.46	43.97	44.24	44.44	44.29	42.18 (May 18)†
	MEAN	43.77	43.53	42.98	42.43	42.22	42.54	43.12	43.80	44.18	44.31	44.60	44.49	43.50
	LOW	43.86	43.70	43.31	42.65	42.27	42.86	43.43	44.08	44.33	44.44	44.69	44.69	44.69 (Nov 26)†
<b>2009</b>	HIGH	43.88	43.77	42.83	41.91	41.50	41.25	41.29	41.66	42.31	42.67	42.27	41.16	41.16 (Dec 31)
	MEAN	44.03	43.85	43.29	42.27	41.71	41.32	41.48	41.94	42.58	42.75	42.53	41.73	42.46
	LOW	44.29	43.89	43.72	42.79	41.90	41.50	41.65	42.28	42.74	42.80	42.75	42.29	44.29 (Jan 1)
<b>2010</b>	HIGH	40.42	39.39	39.04	38.87	38.87	38.96	39.49	39.89	39.87	40.36	40.83	41.25	38.87 (Apr 25)†
	MEAN	40.86	39.81	39.26	39.00	38.95	39.15	39.77	39.96	40.14	40.64	41.12	41.40	40.01
	LOW	41.15	40.42	39.45	39.10	39.07	39.47	40.00	40.06	40.34	40.87	41.36	41.59	41.59 (Dec 31)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**GREENVILLE COUNTY**

**WELL NUMBER:** GRV-2543

**LATITUDE:** 35° 07' 34"

**GRID NUMBER:** 49B-o2

**LONGITUDE:** 82° 34' 16"

**LOCATION:** Marietta, 7 miles north-northwest (Jones Gap State Park).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter unused well. Depth: 50 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 1,330.65 ft above National Geodetic Vertical Datum of 1929.

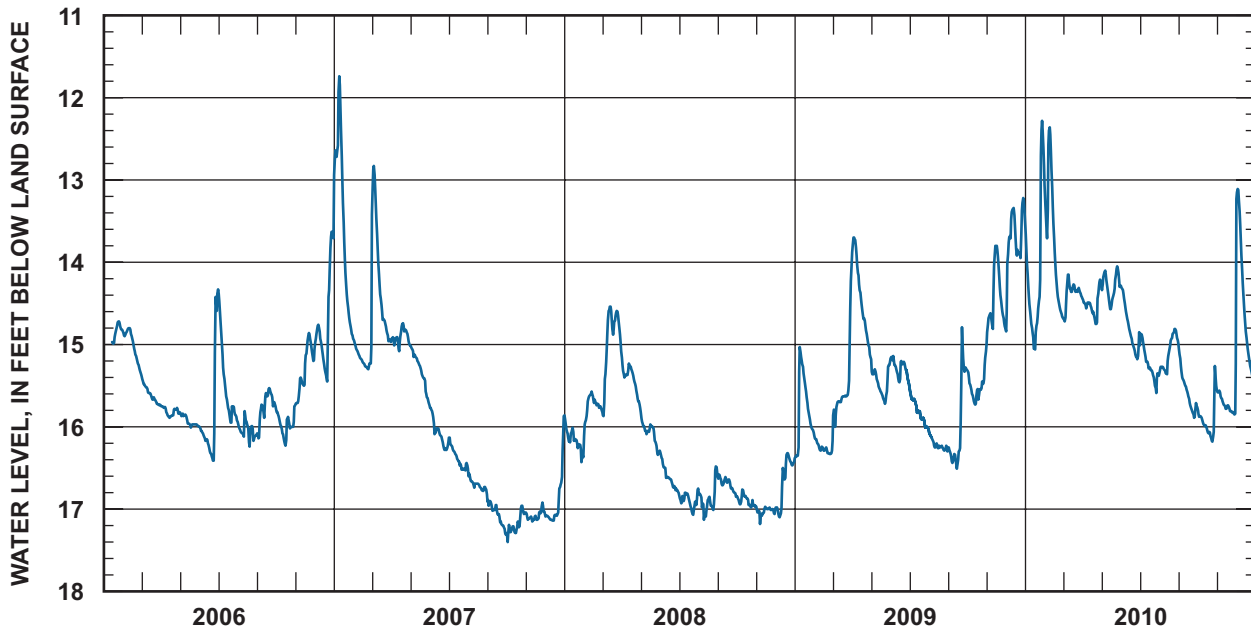
**MEASURING POINT:** Top of instrument platform, 1.32 ft above land surface.

**PERIOD OF RECORD:** October 1997 to current year.

**EXTREMES:** Highest water level: 11.04 ft below land surface datum, September 9, 2004.

Lowest water level: 17.40 ft below land surface datum, October 3, 2007.

**REMARKS:** Former fish hatchery well. Near present park public supply well and shows minor pumping effects. Located at the foot of a major cliff, the Blue Ridge Escarpment. May be open to transition zone between rock and saprolite.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 14.72	14.80	15.36	15.74	15.82	14.38	14.33	15.81	15.53	15.74	14.86	13.63	13.63 (Dec 28)†
	MEAN 14.84	15.00	15.60	15.81	15.93	15.92	15.46	16.04	15.75	15.97	15.30	14.72	15.53
	LOW 14.99	15.34	15.74	15.89	16.01	16.41	15.95	16.24	16.14	16.23	15.72	15.45	16.41 (Jun 23)†
<b>2007</b>	HIGH 11.74	14.94	12.83	14.74	15.01	15.74	16.13	16.51	16.89	16.96	16.92	15.87	11.74 (Jan 9)
	MEAN 13.53	15.17	14.21	14.90	15.29	16.06	16.37	16.70	17.06	17.18	17.08	16.93	15.87
	LOW 14.93	15.30	15.03	15.08	15.71	16.28	16.53	16.82	17.31	17.40	17.15	17.14	17.40 (Oct 3)
<b>2008</b>	HIGH 15.86	15.57	14.54	15.16	15.82	16.31	16.75	16.48	16.58	16.76	16.97	16.32	14.54 (Mar 13)†
	MEAN 16.15	15.74	14.93	15.42	16.08	16.61	16.90	16.87	16.70	16.90	17.02	16.64	16.33
	LOW 16.43	16.11	15.87	15.77	16.34	16.80	17.07	17.13	16.85	16.98	17.18	17.10	17.18 (Nov 11)
<b>2009</b>	HIGH 15.03	16.14	14.04	13.70	15.18	15.14	15.53	16.07	14.79	14.99	13.80	13.22	13.22 (Dec 28)
	MEAN 15.76	16.26	15.54	14.42	15.46	15.29	15.82	16.22	15.97	15.49	14.43	13.70	15.36
	LOW 16.37	16.33	16.17	15.15	15.72	15.48	16.03	16.30	16.51	15.73	14.85	14.84	16.51 (Sep 14)
<b>2010</b>	HIGH 12.28	12.36	14.15	14.21	14.05	14.29	14.87	14.81	15.06	15.26	15.23	13.11	12.28 (Jan 27)
	MEAN 14.11	13.69	14.38	14.51	14.29	14.79	15.23	15.10	15.58	15.91	15.71	14.55	14.82
	LOW 15.06	14.66	14.72	14.75	14.57	15.18	15.59	15.36	15.89	16.18	15.85	15.50	16.18 (Oct 24)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## GREENVILLE COUNTY

**WELL NUMBER:** GRV-3333

**LATITUDE:** 35° 09' 58"

**GRID NUMBER:** 48B-d3

**LONGITUDE:** 82° 28' 17"

**LOCATION:** Marietta, 7.5 miles north.

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 264 ft. Open hole below 58 ft.

**LAND SURFACE ELEVATION:** 1,872.84 ft above National Geodetic Vertical Datum of 1929.

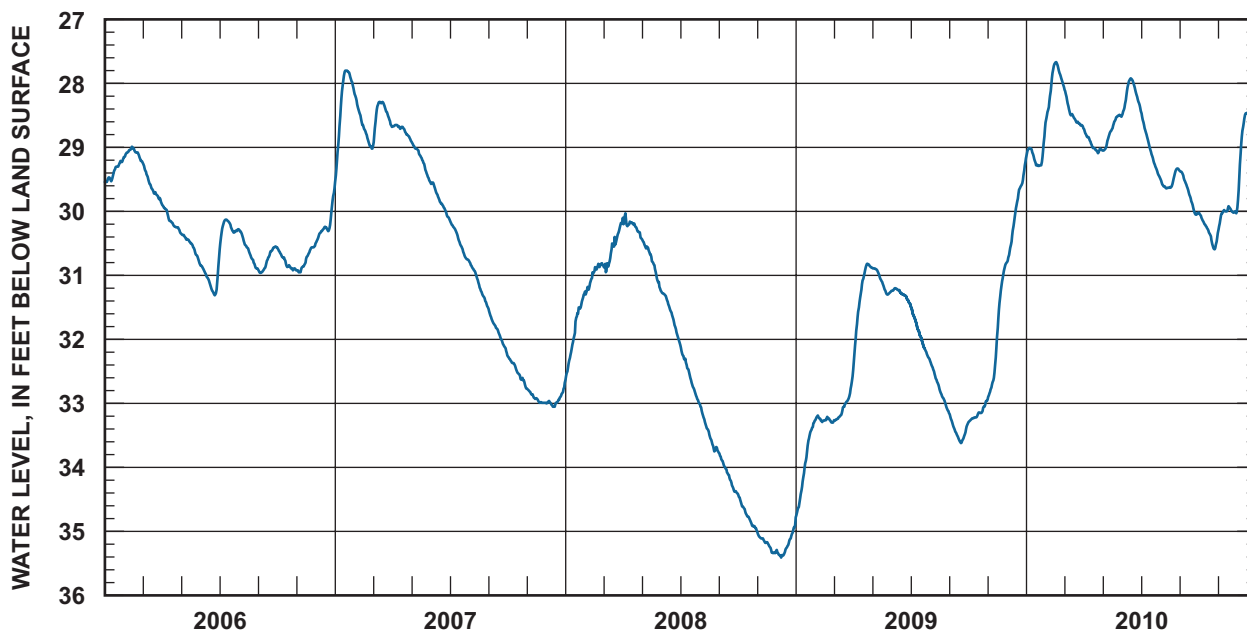
**MEASURING POINT:** Top of casing, 1.24 ft above land surface.

**PERIOD OF RECORD:** July 1997 to current year.

**EXTREMES:** Highest water level: 26.10 ft below land surface, May 9, 1998.

Lowest water level: 35.41 ft below land surface, December 8, 2008.

**REMARKS:** 6-inch steel casing from 1 to 20 ft below land surface; 4-inch PVC casing from 1 to 58 ft below land surface; K-packer at 58 ft. Large fracture at 50 ft apparently captured all cuttings from below that level. No significant fractures below 58 ft; low water production.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	29.15	28.99	29.22	29.88	30.34	30.83	30.13	30.28	30.55	30.56	30.54	29.64	28.99 (Feb 13)
	MEAN	29.37	29.08	29.58	30.12	30.52	31.07	30.27	30.60	30.76	30.78	30.75	30.22	30.26
	LOW	29.54	29.21	29.85	30.32	30.81	31.31	30.71	30.89	30.96	30.92	30.95	30.50	31.31 (Jun 24)
<b>2007</b>	HIGH	27.80	28.17	28.29	28.65	28.90	29.55	30.12	30.77	31.52	32.25	32.77	32.68	27.80 (Jan 17)†
	MEAN	28.27	28.64	28.49	28.72	29.17	29.81	30.45	31.12	31.87	32.49	32.91	32.95	30.41
	LOW	29.54	29.02	29.02	28.87	29.53	30.10	30.76	31.50	32.21	32.77	32.99	33.05	33.05 (Dec 12)†
<b>2008</b>	HIGH	31.29	30.81	30.18	30.03	30.43	31.25	32.09	33.01	33.78	34.43	35.04	34.78	30.03 (Apr 5)
	MEAN	31.89	31.00	30.57	30.22	30.77	31.58	32.56	33.46	34.13	34.75	35.20	35.21	32.61
	LOW	32.63	31.30	30.95	30.42	31.24	32.05	33.00	33.77	34.41	35.01	35.34	35.41	35.41 (Dec 8)
<b>2009</b>	HIGH	33.26	33.19	32.58	30.82	30.88	31.20	31.47	32.34	33.17	32.94	30.80	29.17	29.17 (Dec 31)
	MEAN	33.93	33.25	33.06	31.31	31.09	31.28	31.92	32.76	33.44	33.15	31.88	29.97	32.25
	LOW	34.75	33.30	33.28	32.48	31.30	31.44	32.31	33.15	33.62	33.29	32.90	30.79	34.75 (Jan 1)
<b>2010</b>	HIGH	28.61	27.67	28.06	28.70	28.49	27.92	28.43	29.33	29.37	30.02	29.92	28.46	27.67 (Feb 16)†
	MEAN	29.11	27.98	28.47	28.94	28.74	28.17	29.01	29.53	29.72	30.31	30.02	28.81	29.07
	LOW	29.29	28.55	28.67	29.09	29.05	28.50	29.47	29.64	30.05	30.59	30.28	29.94	30.59 (Oct 25)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.



## GREENVILLE COUNTY

**WELL NUMBER:** GRV-3335

**LATITUDE:** 35° 07' 30"

**GRID NUMBER:** 49B-04

**LONGITUDE:** 82° 34' 25"

**LOCATION:** Marietta, 7 miles north-northwest (Jones Gap State Park).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 110 ft. Open hole below 62 ft.

**LAND SURFACE ELEVATION:** 1,353.52 ft above National Geodetic Vertical Datum of 1929.

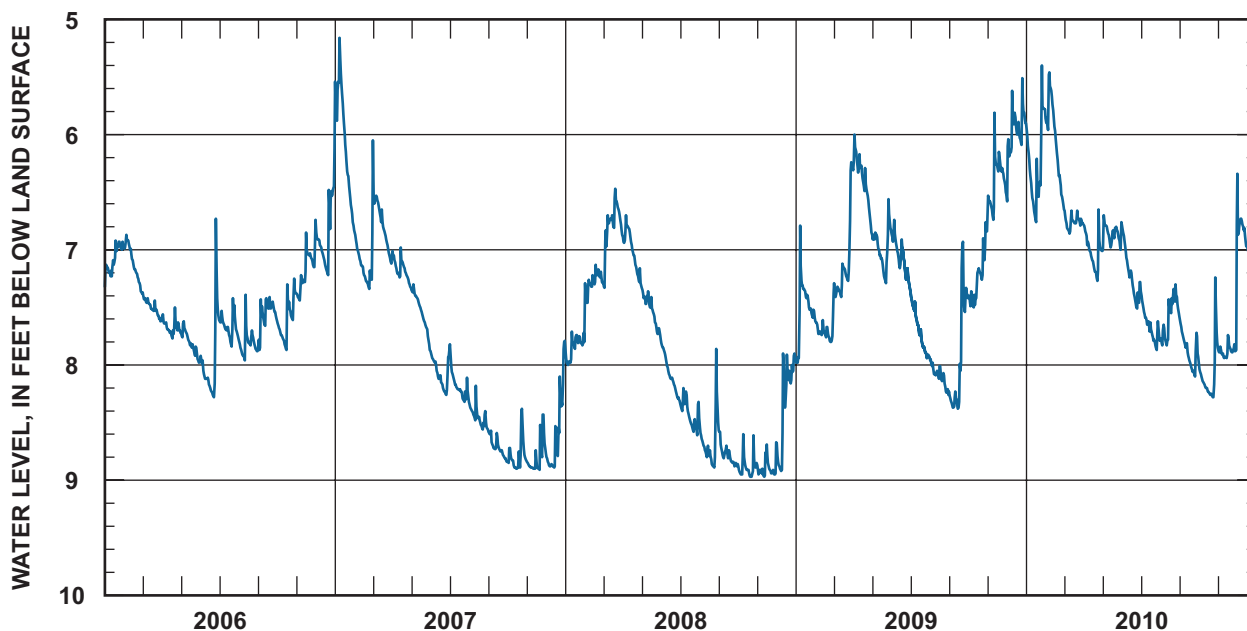
**MEASURING POINT:** Port in sanitary seal, 1.06 ft above land surface.

**PERIOD OF RECORD:** August 1997 to current year.

**EXTREMES:** Highest water level: 4.87 ft below land surface, September 8, 2004.

Lowest water level: 8.97 ft below land surface, October 20, 2008.

**REMARKS:** Fractures at 96 ft and 104 ft; the latter separates granitic gneiss from amphibolite gneiss, suggesting a significant fault displacement.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	6.92	6.87	7.37	7.50	7.62	6.73	7.42	7.39	7.41	7.25	6.85	6.12	6.12 (Dec 31)
MEAN	7.08	7.11	7.49	7.67	7.81	7.97	7.66	7.81	7.56	7.61	7.19	6.85	7.48
LOW	7.32	7.37	7.62	7.77	7.98	8.28	7.84	7.96	7.87	7.87	7.44	7.22	8.28 (Jun 23)
<b>2007</b>													
HIGH	5.16	6.85	6.05	6.98	7.30	7.88	7.82	8.18	8.57	8.38	8.43	7.79	5.16 (Jan 8)
MEAN	6.06	7.14	6.76	7.16	7.53	8.07	8.17	8.45	8.71	8.79	8.80	8.60	7.85
LOW	6.83	7.34	7.12	7.32	7.87	8.26	8.32	8.56	8.84	8.90	8.91	8.89	8.91 (Nov 21)
<b>2008</b>													
HIGH	7.71	7.13	6.47	6.70	7.33	7.81	8.20	7.86	8.58	8.60	8.67	7.90	6.47 (Mar 20)
MEAN	7.84	7.28	6.79	7.01	7.53	8.08	8.42	8.66	8.79	8.88	8.90	8.32	8.04
LOW	8.00	7.46	7.33	7.31	7.78	8.31	8.61	8.89	8.88	8.97	8.97	8.92	8.97 (Oct 20)†
<b>2009</b>													
HIGH	6.79	7.58	6.24	6.00	6.56	6.74	7.37	7.95	6.93	6.68	5.81	5.51	5.51 (Dec 25)
MEAN	7.50	7.71	7.19	6.39	6.98	7.06	7.71	8.10	7.92	7.22	6.40	5.96	7.18
LOW	7.98	7.80	7.41	6.85	7.29	7.34	7.94	8.26	8.38	7.50	6.74	6.58	8.38 (Sep 14)
<b>2010</b>													
HIGH	5.40	5.46	6.65	6.65	6.70	6.79	7.36	7.30	7.61	7.24	6.78	6.34	5.40 (Jan 25)
MEAN	6.25	6.03	6.75	7.01	6.87	7.21	7.66	7.59	7.88	8.08	7.84	6.97	7.18
LOW	6.76	6.60	6.86	7.27	7.01	7.51	7.87	7.83	8.10	8.28	7.94	7.28	8.28 (Oct 23)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**GREENVILLE COUNTY**

**WELL NUMBER:** GRV-3342

**LATITUDE:** 35° 09' 39"

**GRID NUMBER:** 45B-d2

**LONGITUDE:** 82° 13' 29"

**LOCATION:** Landrum, 1.5 miles west-southwest (Oak Grove Road Fire Station).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 334 ft. Open hole below 132 ft.

**LAND SURFACE ELEVATION:** 1,030.66 ft above National Geodetic Vertical Datum of 1929.

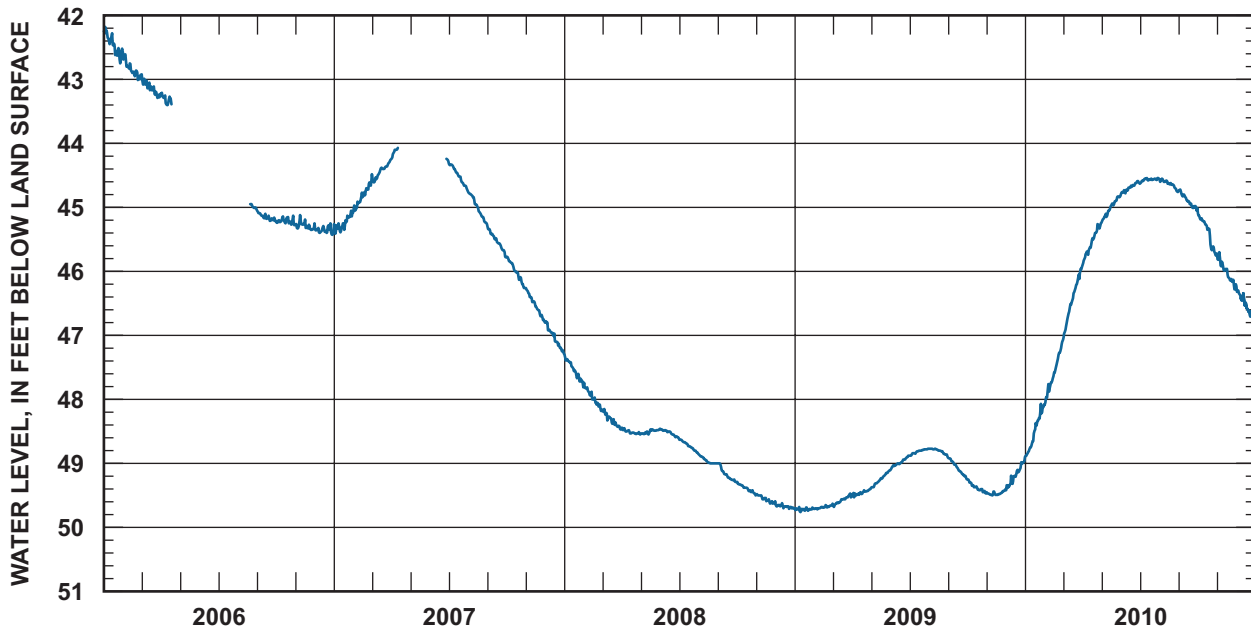
**MEASURING POINT:** North edge of outer security box, 2.69 ft above land surface.

**PERIOD OF RECORD:** May 1998 to current year.

**EXTREMES:** Highest water level: 40.26 ft below land surface, June 30, 1998.

Lowest water level: 49.76 ft below land surface, January 9, 2009.

**REMARKS:** No obvious fractures encountered during drilling. Water production less than 1 gpm.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 42.18	42.61	42.92	43.21	--	--	--	44.95	45.05	45.13	45.12	45.25	--
	MEAN 42.45	42.84	43.13	43.31	--	--	--	44.99	45.15	45.21	45.29	45.35	--
	LOW 42.75	43.01	43.29	43.40	--	--	--	45.03	45.22	45.28	45.35	45.43	--
<b>2007</b>	HIGH 45.05	44.61	44.26	44.07	--	44.24	44.28	44.75	45.30	45.77	46.26	46.78	44.07 (Apr 12)
	MEAN 45.24	44.83	44.44	44.14	--	44.25	44.49	45.00	45.52	46.01	46.52	47.03	45.22
	LOW 45.41	45.05	44.61	44.25	--	44.26	44.73	45.26	45.78	46.26	46.78	47.28	47.28 (Dec 31)
<b>2008</b>	HIGH 47.30	47.74	48.15	48.44	48.46	48.46	48.63	48.86	49.00	49.29	49.48	49.62	47.30 (Jan 1)
	MEAN 47.54	47.97	48.32	48.51	48.50	48.52	48.72	48.96	49.18	49.39	49.56	49.67	48.74
	LOW 47.81	48.18	48.47	48.55	48.55	48.60	48.85	49.00	49.29	49.50	49.63	49.71	49.71 (Dec 22)
<b>2009</b>	HIGH 49.68	49.65	49.47	49.40	49.11	48.88	48.77	48.77	48.92	49.25	49.40	48.90	48.77 (Jul 30)†
	MEAN 49.72	49.68	49.57	49.46	49.25	48.99	48.81	48.81	49.08	49.38	49.47	49.18	49.28
	LOW 49.76	49.72	49.68	49.53	49.38	49.10	48.88	48.91	49.25	49.47	49.50	49.42	49.76 (Jan 9)
<b>2010</b>	HIGH 48.07	47.10	45.94	45.25	44.82	44.59	44.54	44.55	44.72	45.10	45.70	46.23	44.54 (Jul 12)†
	MEAN 48.49	47.59	46.46	45.55	45.01	44.69	44.57	44.64	44.89	45.39	46.01	46.53	45.82
	LOW 48.88	48.05	47.07	45.91	45.24	44.79	44.63	44.76	45.05	45.75	46.28	46.81	48.88 (Jan 1)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## GREENVILLE COUNTY

**WELL NUMBER:** GRV-3533

**LATITUDE:** 34° 55' 28"

**GRID NUMBER:** 48D-v9

**LONGITUDE:** 82° 26' 40"

**LOCATION:** Travelers Rest, 1.5 miles south (Furman University).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 243 ft. Open hole below 45 ft.

**LAND SURFACE ELEVATION:** 985 ft (map estimate) above National Geodetic Vertical Datum of 1929.

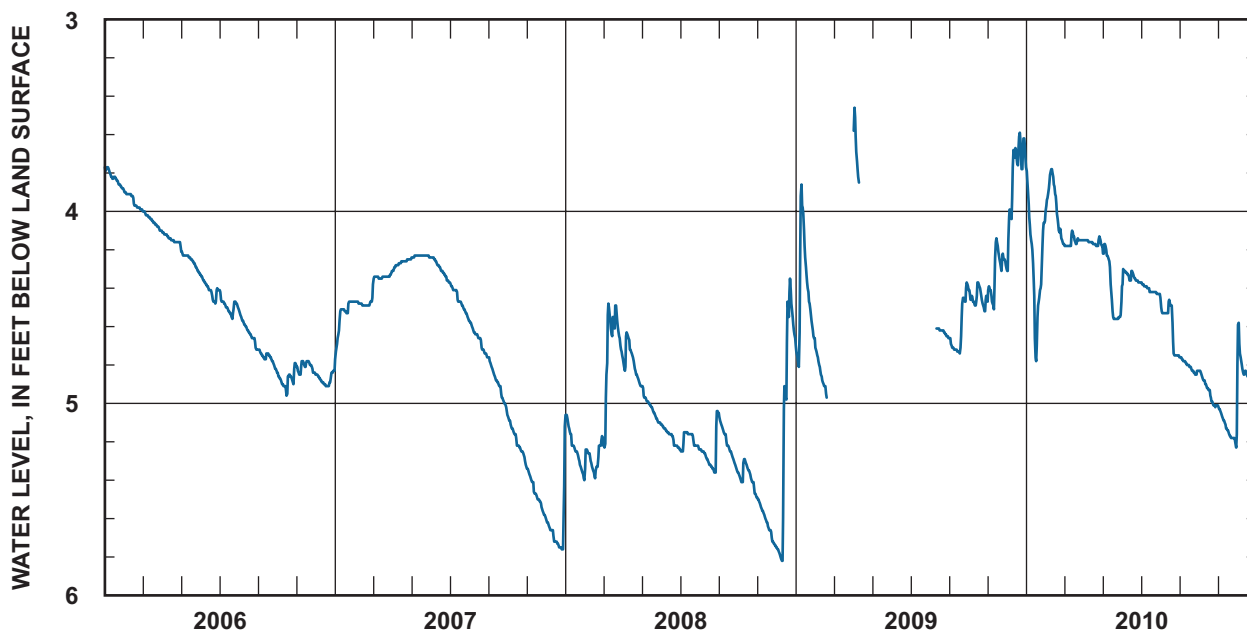
**MEASURING POINT:** Top of casing, 1.91 ft above land surface.

**PERIOD OF RECORD:** August 2002 to current year.

**EXTREMES:** Highest water level: 2.93 ft below land surface, August 25, 2005.

Lowest water level: 5.88 ft below land surface, October 14, 2002.

**REMARKS:** Bedrock depth is 40 ft.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 3.77	3.90	3.99	4.10	4.18	4.33	4.41	4.51	4.72	4.79	4.78	4.83	3.77 (Jan 1)†
	MEAN 3.83	3.94	4.05	4.14	4.25	4.40	4.49	4.62	4.76	4.87	4.81	4.87	4.42
	LOW 3.89	3.99	4.10	4.16	4.32	4.48	4.56	4.72	4.83	4.96	4.85	4.91	4.96 (Oct 16)
<b>2007</b>	HIGH 4.47	4.47	4.32	4.25	4.23	4.24	4.37	4.56	4.76	5.06	5.34	5.12	4.23 (May 5)†
	MEAN 4.54	4.48	4.35	4.27	4.23	4.29	4.46	4.66	4.90	5.19	5.47	5.66	4.71
	LOW 4.77	4.49	4.45	4.31	4.25	4.37	4.56	4.76	5.04	5.33	5.59	5.76	5.76 (Dec 26)†
<b>2008</b>	HIGH 5.06	5.17	4.48	4.63	4.91	5.11	5.15	5.04	5.07	5.29	5.50	4.35	4.35 (Dec 22)
	MEAN 5.23	5.28	4.70	4.78	5.02	5.17	5.19	5.26	5.22	5.38	5.62	5.05	5.16
	LOW 5.40	5.39	5.23	4.91	5.11	5.24	5.25	5.36	5.36	5.49	5.75	5.82	5.82 (Dec 9)†
<b>2009</b>	HIGH 3.86	4.72	--	3.46	--	--	--	4.61	4.37	4.37	4.14	3.59	--
	MEAN 4.43	4.84	--	3.67	--	--	--	4.63	4.61	4.45	4.31	3.81	--
	LOW 4.81	4.97	--	3.85	--	--	--	4.66	4.74	4.52	4.51	4.31	--
<b>2010</b>	HIGH 3.79	3.78	4.10	4.13	4.17	4.30	4.37	4.45	4.76	4.83	5.02	4.58	3.78 (Feb 9)†
	MEAN 4.26	3.96	4.16	4.16	4.40	4.34	4.41	4.59	4.81	4.93	5.13	4.85	4.50
	LOW 4.78	4.17	4.18	4.18	4.56	4.39	4.43	4.76	4.85	5.02	5.23	4.99	5.23 (Nov 29)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**KERSHAW COUNTY**

**WELL NUMBER:** KER-0263

**LATITUDE:** 34° 33' 32"

**GRID NUMBER:** 24I-i1

**LONGITUDE:** 80° 26' 43"

**LOCATION:** Bethune, 10.5 miles northwest (Mt. Pisgah Elementary School).

**AQUIFER:** Crystalline rock.

**WELL CHARACTERISTICS:** 6.25-inch diameter observation well. Depth: 455 ft. Open hole below 103 ft.

**LAND SURFACE ELEVATION:** 470 ft (map estimate) above National Geodetic Vertical Datum of 1929.

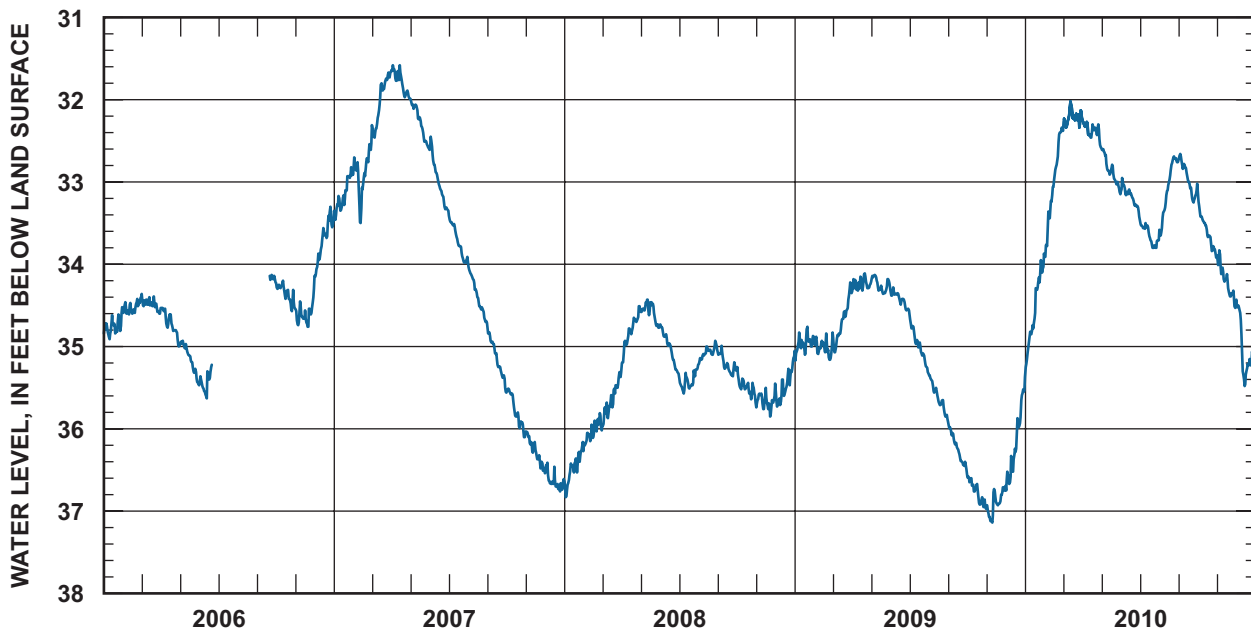
**MEASURING POINT:** Port in sanitary seal, 1.45 ft above land surface.

**PERIOD OF RECORD:** October 1993 to current year.

**EXTREMES:** Highest water level: 28.19 ft below land surface, April 9, 1998.

Lowest water level: 39.65 ft below land surface, August 22, 2002.

**REMARKS:** Monitored by USGS from October 1993 until April 2003, then by DNR from August 2003 to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	34.52	34.41	34.36	34.49	34.93	35.22*	--	--	--	34.20	34.30	33.30	--
MEAN	34.75	34.53	34.48	34.71	35.14	35.43*	--	--	--	34.35	34.60	33.71	--
LOW	34.90	34.61	34.60	35.00	35.46	35.63*	--	--	--	34.57	34.76	34.15	--
<b>2007</b>													
HIGH	32.82	32.54	31.67	31.58	31.99	32.45	33.35	33.97	34.77	35.51	36.03	36.41	31.58 (Apr 4)†
MEAN	33.15	32.90	32.03	31.78	32.26	32.97	33.71	34.37	35.13	35.78	36.27	36.63	33.92
LOW	33.46	33.50	32.53	31.98	32.59	33.34	33.98	34.71	35.55	36.10	36.51	36.76	36.76 (Dec 25)
<b>2008</b>													
HIGH	36.16	35.81	35.31	34.51	34.43	34.73	35.22	34.93	34.99	35.25	35.45	35.05	34.43 (May 11)†
MEAN	36.47	36.03	35.63	34.82	34.58	35.02	35.42	35.07	35.22	35.50	35.66	35.46	35.41
LOW	36.83	36.20	35.96	35.20	34.77	35.33	35.57	35.21	35.36	35.74	35.85	35.73	36.83 (Jan 3)
<b>2009</b>													
HIGH	34.76	34.84	34.22	34.11	34.13	34.28	34.62	35.35	35.96	36.58	36.69	35.37	34.11 (Apr 21)
MEAN	34.96	35.02	34.70	34.25	34.25	34.42	34.99	35.62	36.25	36.77	36.90	36.15	35.36
LOW	35.17	35.16	35.07	34.33	34.36	34.56	35.33	35.91	36.55	36.97	37.14	36.75	37.14 (Nov 9)
<b>2010</b>													
HIGH	33.87	32.34	32.02	32.25	32.59	32.95	33.46	32.69	32.66	33.15	33.83	34.43	32.02 (Mar 13)
MEAN	34.52	33.02	32.22	32.37	32.86	33.17	33.65	33.07	32.96	33.60	34.21	35.05	33.39
LOW	35.25	33.91	32.38	32.58	33.15	33.42	33.80	33.65	33.25	33.92	34.53	35.48	35.48 (Dec 14)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**LAURENS COUNTY**

**WELL NUMBER:** LRN-1706

**LATITUDE:** 34° 34' 15"

**GRID NUMBER:** 44I-b1

**LONGITUDE:** 82° 06' 49"

**LOCATION:** Gray Court, 2 miles south (former Big Knob Fire Tower).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter unused domestic well. Depth: 168 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 840 ft (map estimate) above National Geodetic Vertical Datum of 1929.

**MEASURING POINT:** Port in sanitary seal, 0.00 ft above land surface.

**PERIOD OF RECORD:** May 2001 to current year.

**EXTREMES:** Highest water level: 94.95 ft below land surface, September 18, 2003.

Lowest water level: 110.72 ft below land surface, February 26, 2009.

**REMARKS:** On the side of a prominent hill on a major fault zone.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	102.22	102.29	102.59	102.80	102.99	103.21	103.59	103.78	103.89	104.97	105.49	105.97	102.22 (Jan 30)
	MEAN	102.46	102.52	102.79	102.91	103.11	103.39	103.75	104.09	104.57	105.21	105.75	106.26	103.90
	LOW	102.69	102.68	102.89	103.10	103.27	103.55	103.95	104.34	104.95	105.49	105.99	106.43	106.43 (Dec 29)†
<b>2007</b>	HIGH	--	--	--	--	105.76	105.66	105.67	105.87	106.35	106.86	107.34	107.82	--
	MEAN	--	--	--	--	105.85	105.69	105.75	106.08	106.61	107.08	107.57	108.06	--
	LOW	--	--	--	--	105.93	105.74	105.85	106.32	106.84	107.33	107.82	108.27	--
<b>2008</b>	HIGH	108.29	108.72	108.35	108.40	108.46	108.86	108.95	109.12	109.39	109.62	110.02	110.08	108.29 (Jan 2)
	MEAN	108.52	108.88	108.66	108.58	108.63	108.92	109.03	109.24	109.50	109.84	110.18	110.32	109.19
	LOW	108.72	109.06	109.04	108.76	108.85	108.96	109.10	109.38	109.62	110.01	110.31	110.52	110.52 (Dec 31)
<b>2009</b>	HIGH	109.82	110.53	108.50	106.85	106.37	104.78	104.86	105.17	104.98	104.98	104.68	102.27	102.27 (Dec 31)
	MEAN	110.25	110.66	108.88	107.22	107.37	105.30	105.16	105.24	105.11	105.08	104.93	103.56	106.56
	LOW	110.61	110.72	110.56	107.71	107.65	106.37	105.26	105.30	105.23	105.16	105.20	104.92	110.72 (Feb 26)†
<b>2010</b>	HIGH	100.49	98.55	98.59	97.53	97.06	96.73	96.72	96.88	97.33	98.03	98.66	99.54	96.72 (Jul 9)†
	MEAN	102.02	99.17	98.98	98.05	97.36	96.87	96.82	97.12	97.68	98.40	99.19	99.99	98.47
	LOW	102.77	100.55	99.30	98.57	97.63	97.01	96.90	97.46	97.93	98.80	99.63	100.47	102.77 (Jan 16)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**LAURENS COUNTY**

**WELL NUMBER:** LRN-1707

**LATITUDE:** 34° 22' 52"

**GRID NUMBER:** 43K-k1

**LONGITUDE:** 82° 00' 22"

**LOCATION:** Mountville, 1 mile northwest (former Mountville Fire Tower).

**AQUIFER:** Crystalline rock (metamorphic).

**WELL CHARACTERISTICS:** 6-inch diameter unused domestic well. Depth: 223 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 660 ft (map estimate) above National Geodetic Vertical Datum of 1929.

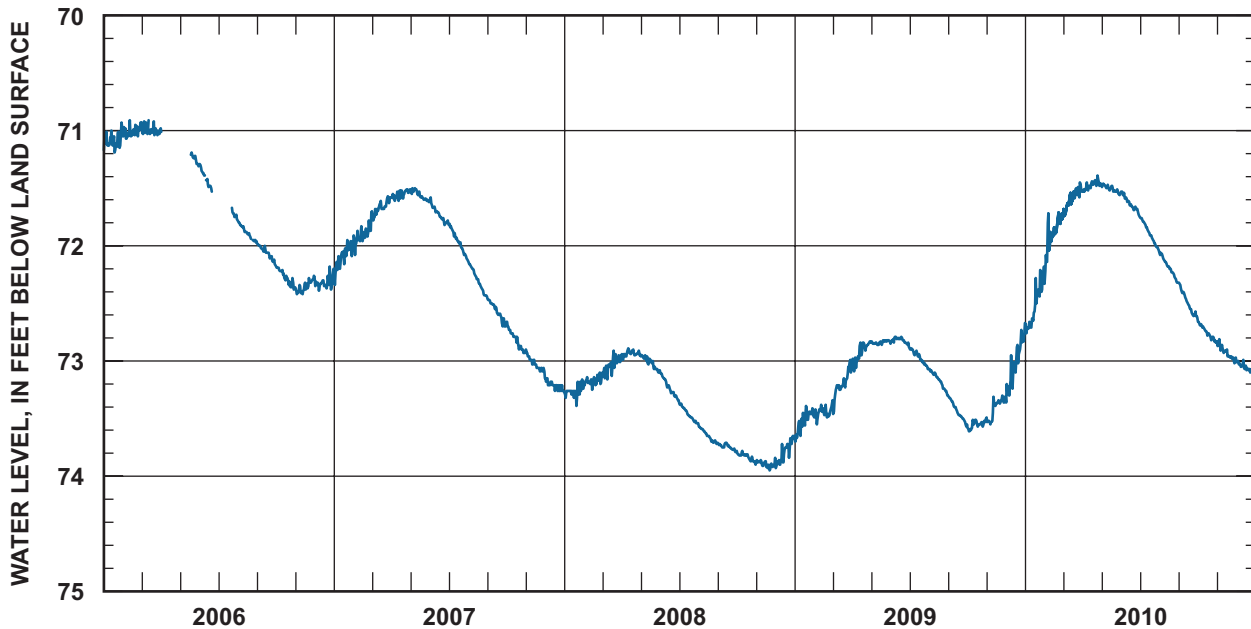
**MEASURING POINT:** Port in sanitary seal, 0.75 ft above land surface.

**PERIOD OF RECORD:** May 2001 to current year.

**EXTREMES:** Highest water level: 70.36 ft below land surface, June 30, 2005.

Lowest water level: 73.95 ft below land surface, November 21, 2008.

**REMARKS:** Local topography is flat.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	70.93	70.91	70.91	70.98	71.19	71.29	71.67	71.78	71.98	72.18	72.26	72.18	70.91 (Feb 11)†
	MEAN	71.09	71.01	70.99	71.00	71.25	71.41	71.73	71.88	72.06	72.27	72.35	72.32	71.61
	LOW	71.19	71.07	71.04	71.01	71.31	71.53	71.77	71.97	72.17	72.38	72.42	72.39	72.42 (Nov 3)†
<b>2007</b>	HIGH	71.95	71.78	71.57	71.51	71.50	71.58	71.81	72.13	72.46	72.66	72.90	73.15	71.50 (May 5)†
	MEAN	72.09	71.91	71.67	71.56	71.56	71.72	71.96	72.29	72.57	72.81	73.02	73.21	72.20
	LOW	72.34	72.08	71.78	71.61	71.62	71.82	72.12	72.44	72.70	72.93	73.09	73.26	73.26 (Dec 17)†
<b>2008</b>	HIGH	73.16	73.10	72.91	72.89	72.95	73.10	73.37	73.57	73.71	73.78	73.84	73.65	72.89 (Apr 11)
	MEAN	73.27	73.17	73.04	72.94	73.02	73.23	73.46	73.65	73.75	73.83	73.89	73.79	73.42
	LOW	73.39	73.25	73.16	72.99	73.10	73.34	73.54	73.72	73.79	73.90	73.95	73.93	73.95 (Nov 21)
<b>2009</b>	HIGH	73.39	73.37	72.99	72.83	72.82	72.79	72.89	73.07	73.31	73.49	73.30	72.67	72.67 (Dec 31)
	MEAN	73.52	73.44	73.20	72.92	72.84	72.82	72.97	73.17	73.44	73.55	73.41	73.02	73.19
	LOW	73.70	73.55	73.46	73.09	72.86	72.88	73.07	73.30	73.57	73.61	73.55	73.36	73.70 (Jan 1)
<b>2010</b>	HIGH	72.18	71.71	71.45	71.39	71.46	71.53	71.75	72.06	72.32	72.66	72.81	72.99	71.39 (Apr 25)
	MEAN	72.51	71.89	71.59	71.48	71.50	71.63	71.89	72.19	72.50	72.75	72.93	73.06	72.16
	LOW	72.76	72.22	71.75	71.53	71.56	71.74	72.04	72.32	72.62	72.84	73.02	73.12	73.12 (Dec 27)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**SALUDA COUNTY**

**WELL NUMBER:** SAL-0069

**LATITUDE:** 34° 05' 16"

**GRID NUMBER:** 39N-u3

**LONGITUDE:** 81° 40' 12"

**LOCATION:** Saluda, 7.5 miles northeast (Hollywood Elementary School).

**AQUIFER:** Crystalline rock.

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 480 ft. Open hole below 92 ft.

**LAND SURFACE ELEVATION:** 445 ft (map estimate) above National Geodetic Vertical Datum of 1929.

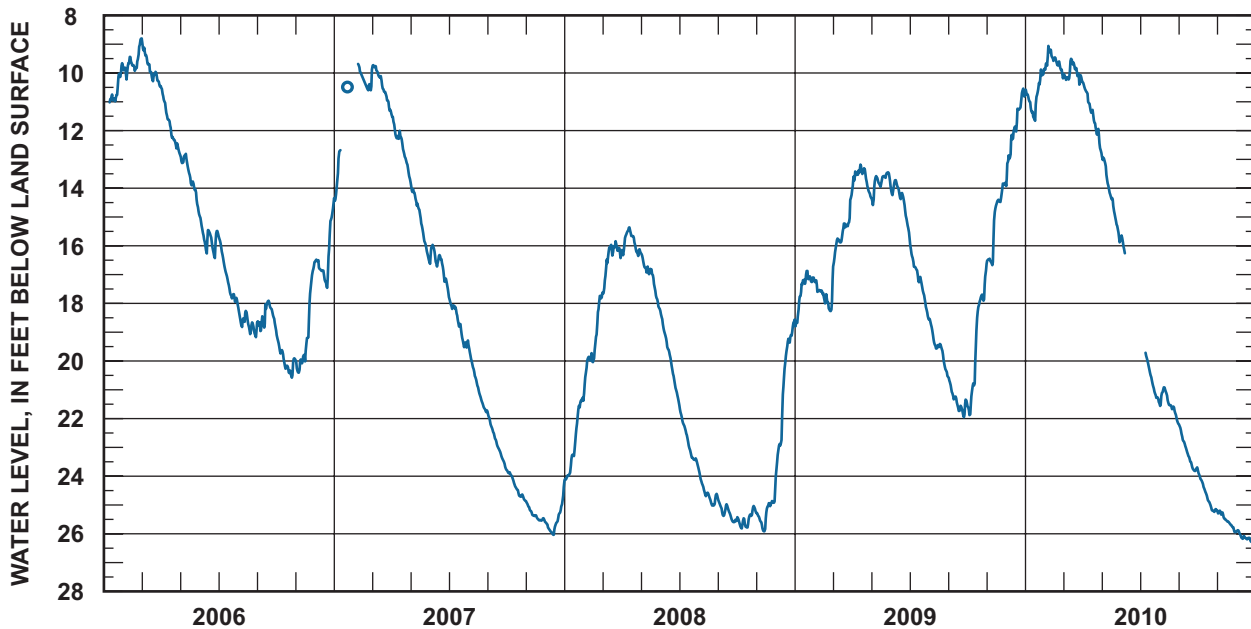
**MEASURING POINT:** Port in sanitary seal, 2.3 ft above land surface.

**PERIOD OF RECORD:** October 1993 to current year.

**EXTREMES:** Highest water level: 7.26 ft below land surface, April 15 and 16, 1998.

Lowest water level: 26.38 ft below land surface, December 31, 2010.

**REMARKS:** Monitored by USGS from October 1993 until July 2003, then by DNR from August 2003 to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	9.66*	8.84	8.80	10.45	12.79	14.91	15.59	18.04	17.91	18.94	16.70	14.53	8.80 (Mar 2)
MEAN	10.53*	9.67	9.77	11.73	13.53	15.69	17.01	18.66	18.44	19.93	19.14	16.40	15.04
LOW	11.02*	10.23	10.47	12.72	14.80	16.43	17.95	19.17	18.96	20.58	20.41	17.46	20.58 (Oct 26)
<b>2007</b>													
HIGH	--	--	9.73	11.35	13.68	15.97	17.63	19.29	21.76	23.77	24.86	24.38	9.73 (Mar 4)
MEAN	--	--	10.37	12.39	14.98	16.60	18.62	20.76	22.80	24.33	25.32	25.54	19.17
LOW	--	--	11.31	13.59	16.48	17.49	19.53	21.77	23.73	24.85	25.54	26.03	26.03 (Dec 14)†
<b>2008</b>													
HIGH	21.27	17.74	15.84	15.36	16.25	18.26	21.54	23.79	24.83	25.03	24.45	18.56	15.36 (Apr 13)
MEAN	22.84	19.44	16.43	15.86	17.09	19.83	22.78	24.58	25.27	25.48	25.27	20.78	21.30
LOW	24.14	21.12	17.66	16.35	18.19	21.39	23.68	25.02	25.59	25.81	25.91	24.02	25.91 (Nov 12)†
<b>2009</b>													
HIGH	16.87	17.20	14.23	13.18	13.45	13.72	15.74	18.54	20.59	16.63	13.80	10.54	10.54 (Dec 28)
MEAN	17.51	17.75	15.60	13.64	13.79	14.35	17.17	19.54	21.37	19.28	15.11	11.88	16.42
LOW	18.80	18.27	17.16	14.28	14.59	15.53	18.55	20.55	21.95	21.88	16.67	13.93	21.95 (Sep 25)
<b>2010</b>													
HIGH	9.86	9.06	9.51	10.31	12.78	--	19.71*	20.91	22.20	23.81	25.20	25.87	9.06 (Feb 6)
MEAN	10.73	9.57	10.01	11.36	14.27	--	20.67*	21.48	23.18	24.67	25.53	26.14	17.96
LOW	11.66	10.01	10.41	12.70	15.88	--	21.42*	22.18	23.82	25.24	25.94	26.38	26.38 (Dec 31)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

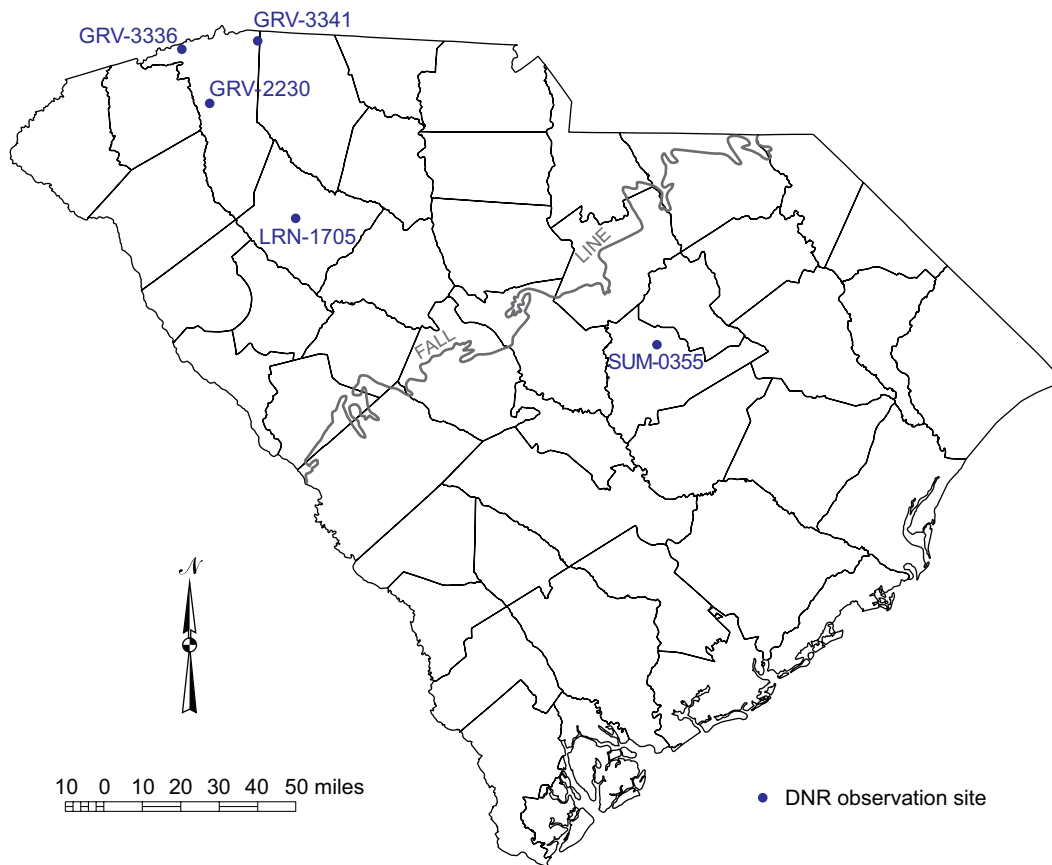
† This value occurred on more than one day in that year. The date of the first occurrence is reported.





## APPENDIX B

### Ground-water levels in the shallow aquifer system, 2006–2010



## GREENVILLE COUNTY

**WELL NUMBER:** GRV-2230

**LATITUDE:** 34° 55' 28"

**GRID NUMBER:** 48D-v2

**LONGITUDE:** 82° 26' 40"

**LOCATION:** Travelers Rest, 1.5 miles south (Furman University).

**AQUIFER:** Shallow aquifer system (saprolite).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 20 ft. Open interval 5 to 20 ft.

**LAND SURFACE ELEVATION:** 985 ft (map estimate) above National Geodetic Vertical Datum of 1929.

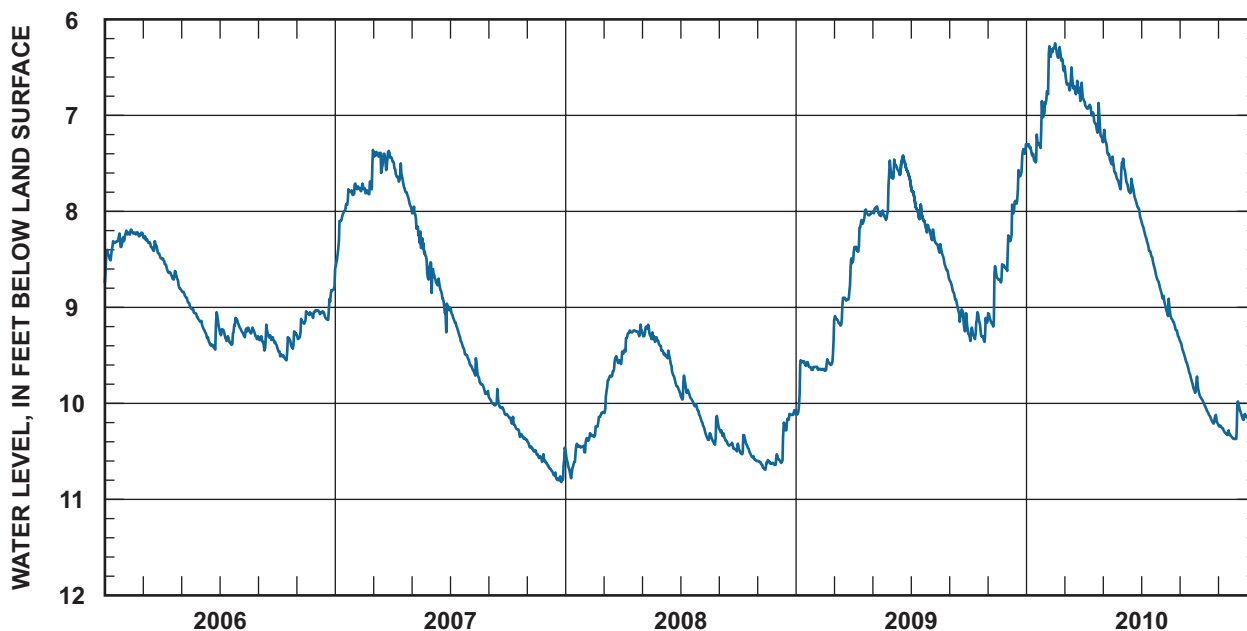
**MEASURING POINT:** Top of casing, 2.4 ft above land surface.

**PERIOD OF RECORD:** August 2002 to current year.

**EXTREMES:** Highest water level: 5.14 ft below land surface, June 8, 2003.

Lowest water level: 10.82 ft below land surface, December 25, 2007.

**REMARKS:** Rainfall also monitored at this site.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	8.23	8.19	8.23	8.49	8.81	9.05	9.11	9.18	9.18	9.25	9.04	8.78	8.19 (Feb 11)†
	MEAN	8.38	8.23	8.35	8.64	8.97	9.28	9.27	9.25	9.33	9.42	9.14	9.00	8.94
	LOW	8.74	8.29	8.49	8.80	9.14	9.44	9.39	9.33	9.45	9.55	9.33	9.13	9.55 (Oct 15)†
<b>2007</b>	HIGH	7.77	7.69	7.36	7.45	7.95	8.53	9.00	9.53	9.85	10.12	10.38	10.46	7.36 (Mar 2)
	MEAN	8.05	7.76	7.44	7.68	8.29	8.82	9.27	9.73	10.02	10.26	10.51	10.71	9.05
	LOW	8.60	7.82	7.60	7.94	8.71	9.27	9.54	9.90	10.12	10.37	10.61	10.82	10.82 (Dec 25)
<b>2008</b>	HIGH	10.42	10.09	9.46	9.18	9.18	9.45	9.71	10.13	10.27	10.33	10.58	10.07	9.18 (Apr 29)†
	MEAN	10.55	10.28	9.71	9.29	9.29	9.62	9.94	10.29	10.40	10.50	10.63	10.30	10.07
	LOW	10.78	10.51	10.10	9.48	9.40	9.88	10.12	10.43	10.50	10.60	10.69	10.62	10.78 (Jan 10)
<b>2009</b>	HIGH	9.55	9.48	8.49	7.98	7.47	7.42	7.71	8.19	8.72	9.05	8.55	7.30	7.30 (Dec 31)
	MEAN	9.69	9.61	8.97	8.18	7.95	7.56	8.01	8.41	9.00	9.23	8.80	7.84	8.60
	LOW	10.12	9.66	9.34	8.51	8.09	7.67	8.22	8.70	9.26	9.36	9.20	8.62	10.12 (Jan 1)
<b>2010</b>	HIGH	6.85	6.25	6.49	6.83	7.15	7.45	8.08	8.81	9.35	9.89	10.23	9.98	6.25 (Feb 25)
	MEAN	7.25	6.41	6.69	7.01	7.48	7.77	8.43	9.07	9.65	10.08	10.31	10.14	8.36
	LOW	7.49	6.84	6.85	7.23	7.77	8.06	8.79	9.33	9.89	10.21	10.37	10.22	10.37 (Nov 25)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## GREENVILLE COUNTY

**WELL NUMBER:** GRV-3336

**LATITUDE:** 35° 07' 30"

**GRID NUMBER:** 49B-05

**LONGITUDE:** 82° 34' 25"

**LOCATION:** Marietta, 7 miles north-northwest (Jones Gap State Park).

**AQUIFER:** Shallow aquifer system (saprolite).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 20 ft. Screened from 14 to 19 ft, with filter sand from 12 to 19 ft.

**LAND SURFACE ELEVATION:** 1,353.32 ft above National Geodetic Vertical Datum of 1929.

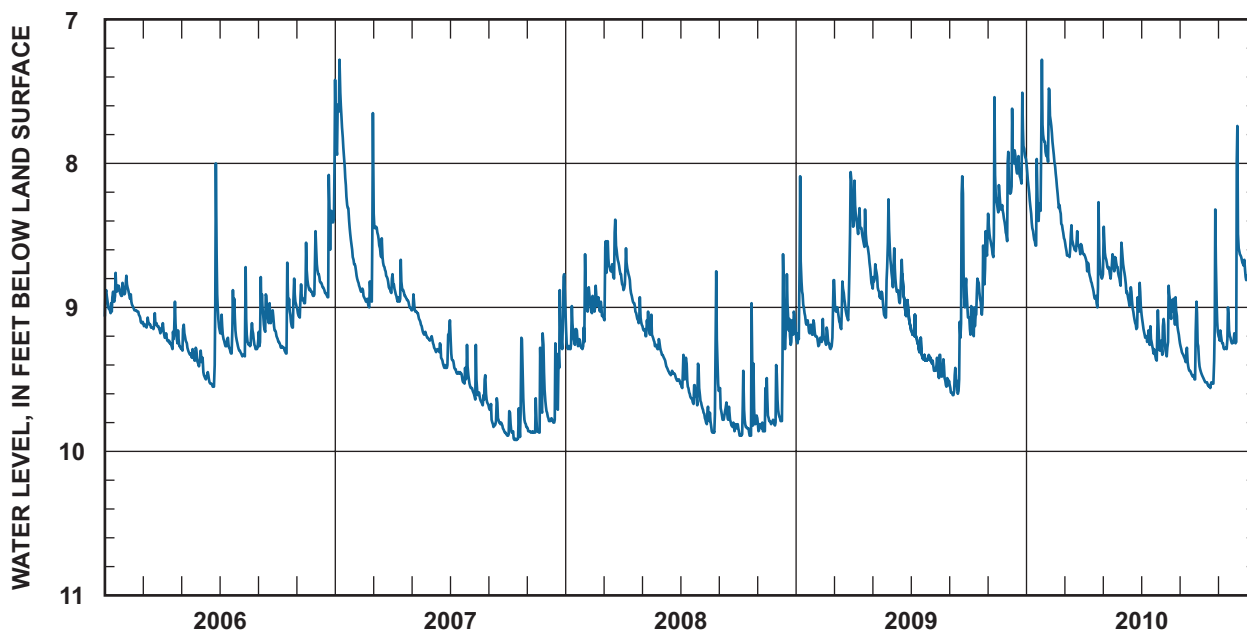
**MEASURING POINT:** Port in sanitary seal, 2.08 ft above land surface.

**PERIOD OF RECORD:** August 1997 to current year.

**EXTREMES:** Highest water level: 6.17 ft below land surface, September 8, 2004.

Lowest water level: 10.03 ft below land surface, September 12, 2002.

**REMARKS:** The saprolite at this site underlies blocks of granitic gneiss, probably placed during the construction of the adjacent roadbed. Water level may be influenced by Middle Saluda River.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 8.76	8.78	9.04	8.96	9.12	8.00	8.88	8.72	8.79	8.69	8.55	8.02	8.00 (Jun 26)
	MEAN 8.92	8.97	9.13	9.20	9.30	9.33	9.19	9.24	9.08	9.13	8.90	8.66	9.09
	LOW 9.06	9.11	9.18	9.29	9.41	9.55	9.32	9.34	9.27	9.32	9.07	8.93	9.55 (Jun 21)†
<b>2007</b>	HIGH 7.28	8.70	7.65	8.67	8.91	9.19	9.09	9.26	9.63	9.21	9.18	8.77	7.28 (Jan 8)
	MEAN 8.06	8.88	8.61	8.90	9.10	9.31	9.41	9.59	9.79	9.78	9.74	9.50	9.22
	LOW 8.70	9.00	8.90	9.00	9.23	9.42	9.53	9.68	9.88	9.92	9.87	9.80	9.92 (Oct 10)†
<b>2008</b>	HIGH 8.99	8.63	8.39	8.59	9.03	9.31	9.33	8.75	9.56	8.97	9.40	8.63	8.39 Mar 20)
	MEAN 9.23	8.96	8.72	8.91	9.19	9.43	9.54	9.67	9.76	9.77	9.77	9.28	9.35
	LOW 9.29	9.06	9.09	9.11	9.30	9.51	9.68	9.87	9.86	9.89	9.86	9.79	9.89 (Oct 3)†
<b>2009</b>	HIGH 8.09	9.01	8.06	8.12	8.25	8.59	9.05	9.33	8.09	8.47	7.54	7.51	7.51 (Dec 25)
	MEAN 9.05	9.22	8.91	8.49	8.82	8.89	9.27	9.44	9.20	8.92	8.36	8.01	8.88
	LOW 9.25	9.29	9.15	8.83	9.07	9.12	9.37	9.55	9.61	9.20	8.65	8.54	9.61 (Sep 6)†
<b>2010</b>	HIGH 7.28	7.48	8.43	8.27	8.44	8.60	8.99	8.85	8.96	8.32	7.98	7.74	7.28 (Jan 25)
	MEAN 8.18	8.04	8.58	8.77	8.70	8.92	9.21	9.12	9.35	9.38	9.18	8.75	8.85
	LOW 8.57	8.48	8.65	9.00	8.85	9.15	9.37	9.34	9.50	9.56	9.29	8.97	9.56 (Oct 19)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## GREENVILLE COUNTY

**WELL NUMBER:** GRV-3341

**LATITUDE:** 35° 09' 39"

**GRID NUMBER:** 45B-d1

**LONGITUDE:** 82° 13' 29"

**LOCATION:** Landrum, 1.5 miles west-southwest (Oak Grove Road Fire Station).

**AQUIFER:** Shallow aquifer system (saprolite).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 80 ft. Screened from 70 to 80 ft, with filter sand from 50 to 80 ft.

**LAND SURFACE ELEVATION:** 1,030.66 ft above National Geodetic Vertical Datum of 1929.

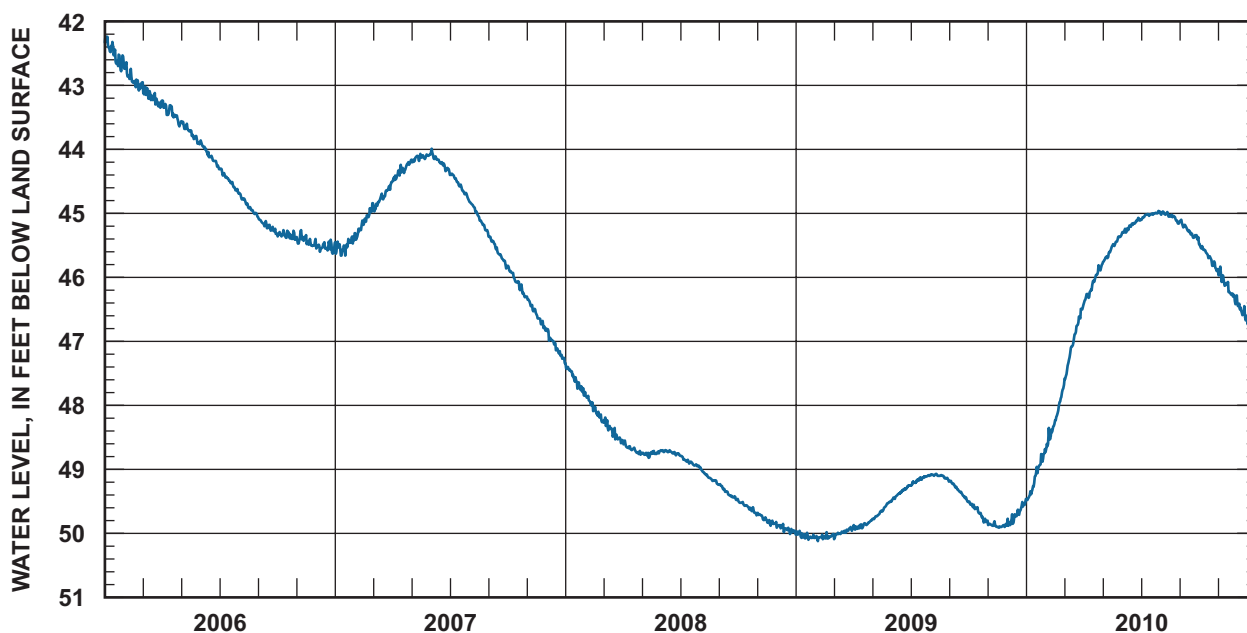
**MEASURING POINT:** Port in sanitary seal, 2.72 ft above land surface.

**PERIOD OF RECORD:** May 1998 to current year.

**EXTREMES:** Highest water level: 40.17 ft below land surface, June 30, 1998.

Lowest water level: 50.12 ft below land surface, February 4, 2009.

**REMARKS:** Total saprolite thickness is 132 ft.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	42.23	42.64	42.95	43.24	43.56	43.86	44.30	44.68	45.06	45.26	45.26	45.40	42.23 (Jan 2)
	MEAN	42.50	42.90	43.18	43.42	43.73	44.08	44.47	44.87	45.19	45.34	45.43	45.53	44.22
	LOW	42.78	43.08	43.35	43.64	43.92	44.27	44.67	45.05	45.32	45.41	45.51	45.63	45.63 (Dec 28)
<b>2007</b>	HIGH	45.36	44.92	44.51	44.20	44.07	43.99	44.35	44.80	45.36	45.82	46.30	46.80	43.99 (Jun 3)
	MEAN	45.51	45.16	44.75	44.35	44.13	44.19	44.55	45.04	45.58	46.07	46.57	47.07	45.25
	LOW	45.66	45.41	44.97	44.51	44.20	44.34	44.78	45.30	45.86	46.31	46.83	47.34	47.34 (Dec 31)
<b>2008</b>	HIGH	47.34	47.79	48.19	48.55	48.70	48.70	48.79	48.97	49.23	49.49	49.68	49.85	47.34 (Jan 1)
	MEAN	47.59	48.04	48.41	48.68	48.75	48.73	48.88	49.12	49.37	49.59	49.79	49.93	48.91
	LOW	47.85	48.26	48.59	48.77	48.82	48.78	48.95	49.24	49.48	49.72	49.88	50.02	50.02 (Dec 31)
<b>2009</b>	HIGH	49.96	49.98	49.90	49.80	49.49	49.25	49.09	49.07	49.18	49.50	49.81	49.46	49.07 (Aug 10)†
	MEAN	50.04	50.05	49.98	49.87	49.65	49.36	49.16	49.11	49.33	49.66	49.88	49.70	49.65
	LOW	50.10	50.12	50.09	49.94	49.78	49.50	49.25	49.19	49.51	49.83	49.91	49.88	50.12 (Feb 4)
<b>2010</b>	HIGH	48.68	47.74	46.47	45.80	45.34	45.07	44.96	44.97	45.10	45.48	45.83	46.41	44.96 (Jul 29)
	MEAN	49.10	48.23	47.02	46.11	45.55	45.19	45.02	45.04	45.27	45.67	46.15	46.67	46.25
	LOW	49.48	48.67	47.68	46.43	45.79	45.31	45.10	45.16	45.41	45.90	46.42	46.95	49.48 (Jan 2)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**LAURENS COUNTY**

**WELL NUMBER:** LRN-1705

**LATITUDE:** 34° 29' 27"

**GRID NUMBER:** 43J-c2

**LONGITUDE:** 82° 02' 34"

**LOCATION:** Laurens (Joe R. Adair Outdoor Education Center).

**AQUIFER:** Shallow aquifer system (Quaternary alluvium).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 39 ft. Screened from 29 to 39 ft.

**LAND SURFACE ELEVATION:** 635.73 ft above National Geodetic Vertical Datum of 1929.

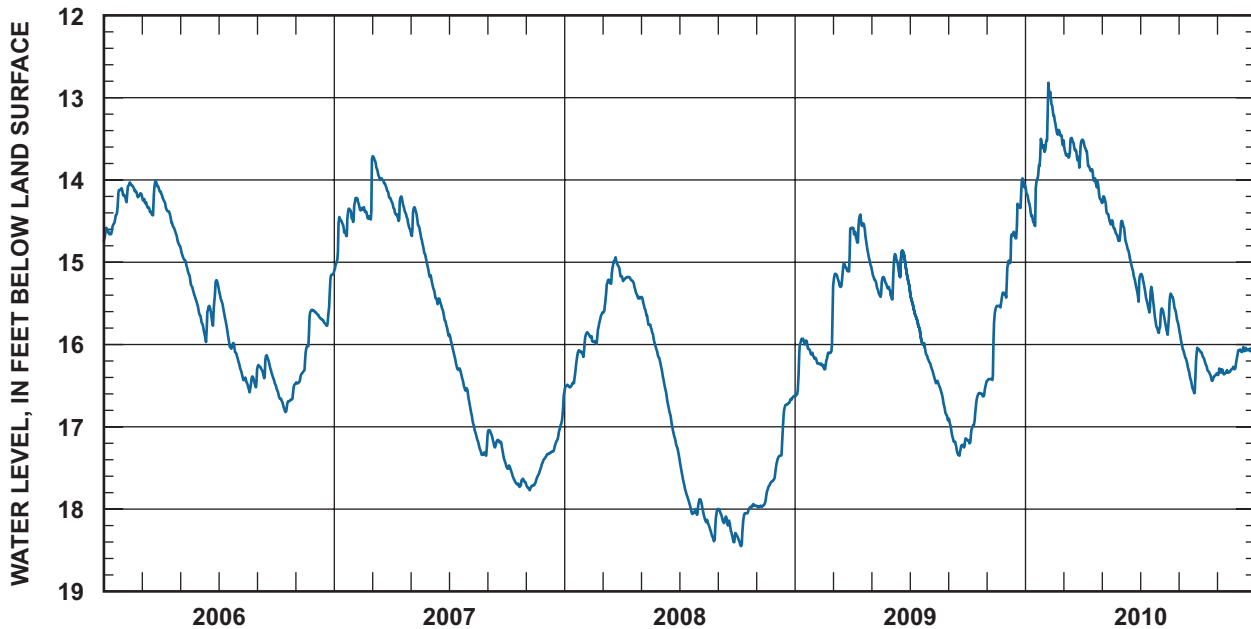
**MEASURING POINT:** Top of instrument platform, 2.82 ft above land surface.

**PERIOD OF RECORD:** August 2000 to current year.

**EXTREMES:** Highest water level: 10.76 ft below land surface, May 23, 2003.

Lowest water level: 18.45 ft below land surface, October 7, 2008.

**REMARKS:** Screened in bed of well-sorted sand that is at least 40 ft thick.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	14.10	14.03	14.01	14.14	14.80	15.22	15.28	16.17	16.13	16.48	15.58	15.14	14.01 (Mar 24)
	MEAN	14.46	14.14	14.23	14.45	15.17	15.62	15.78	16.41	16.30	16.66	16.10	15.57	15.41
	LOW	14.74	14.27	14.43	14.78	15.58	15.97	16.14	16.58	16.49	16.82	16.47	15.77	16.82 (Oct 16)
<b>2007</b>	HIGH	14.35	14.22	13.71	14.20	14.33	15.16	15.88	16.60	17.04	17.47	17.39	16.62	13.71 (Mar 3)
	MEAN	14.61	14.36	13.98	14.37	14.68	15.48	16.25	17.09	17.20	17.62	17.63	17.17	15.87
	LOW	15.11	14.48	14.38	14.58	15.12	15.84	16.56	17.35	17.45	17.73	17.77	17.38	17.77 (Nov 11)
<b>2008</b>	HIGH	16.07	15.63	14.94	15.17	15.42	16.22	17.38	17.88	18.00	17.94	17.57	16.62	14.94 (Mar 22)
	MEAN	16.33	15.88	15.21	15.27	15.79	16.80	17.84	18.13	18.19	18.12	17.82	16.95	16.86
	LOW	16.52	16.07	15.61	15.44	16.19	17.33	18.07	18.39	18.40	18.45	17.98	17.51	18.45 (Oct 7)
<b>2009</b>	HIGH	15.93	15.99	14.58	14.42	15.05	14.86	15.31	16.21	16.90	16.45	15.37	13.98	13.98 (Dec 27)
	MEAN	16.13	16.19	15.11	14.67	15.26	15.08	15.80	16.53	17.18	16.79	15.82	14.57	15.76
	LOW	16.63	16.30	15.61	15.03	15.42	15.45	16.19	16.92	17.35	17.20	16.44	15.43	17.35 (Sep 18)
<b>2010</b>	HIGH	13.50	12.82	13.49	13.51	14.20	14.50	15.14	15.38	15.80	16.05	16.25	16.03	12.82 (Feb 6)
	MEAN	14.07	13.29	13.64	13.88	14.48	14.96	15.47	15.63	16.22	16.26	16.32	16.07	15.02
	LOW	14.56	13.63	13.85	14.24	14.74	15.48	15.86	15.88	16.59	16.44	16.37	16.20	16.59 (Sep 25)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**SUMTER COUNTY**

**WELL NUMBER:** SUM-0355

**LATITUDE:** 34° 00' 59"

**GRID NUMBER:** 23O-y3

**LONGITUDE:** 80° 24' 08"

**LOCATION:** Dalzell (Ebenezer Elementary School).

**AQUIFER:** Shallow aquifer system (Quaternary alluvium).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 47 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 190 ft (map estimate) above National Geodetic Vertical Datum of 1929.

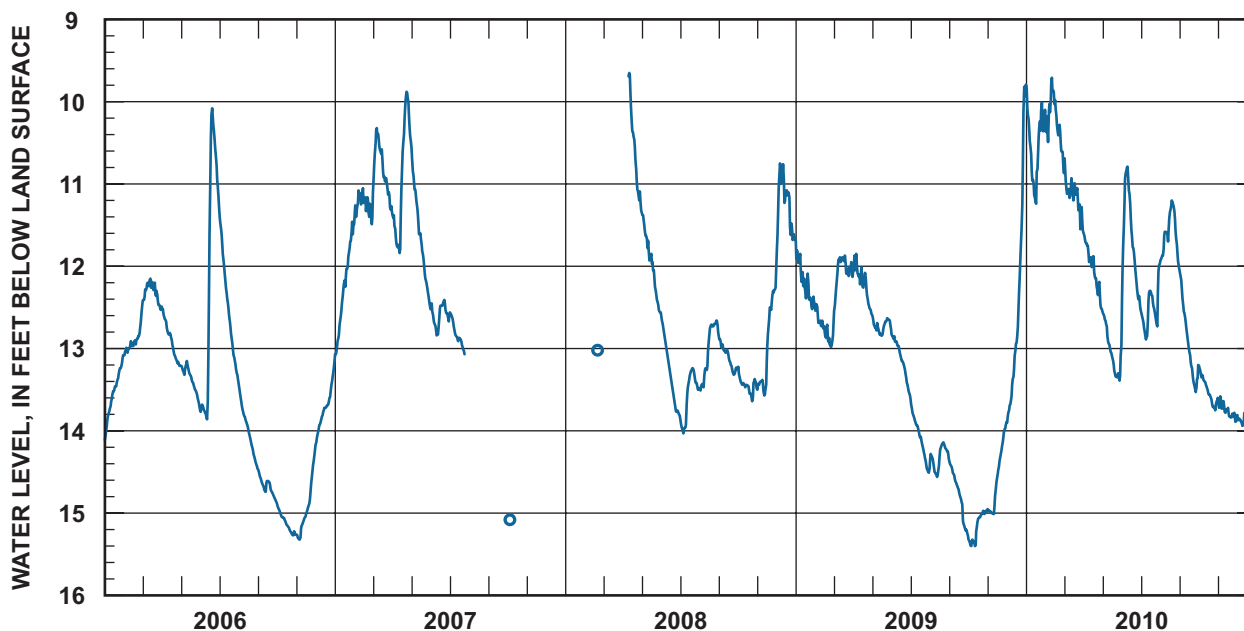
**MEASURING POINT:** Top of sanitary seal, 1.25 ft above land surface.

**PERIOD OF RECORD:** August 2003 to current year.

**EXTREMES:** Highest water level: 9.47 ft below land surface, August 16, 2003.

Lowest water level: 15.40 ft below land surface, October 5, 2009.

**REMARKS:** Well may be partially screened in subcrop of Black Creek aquifer.



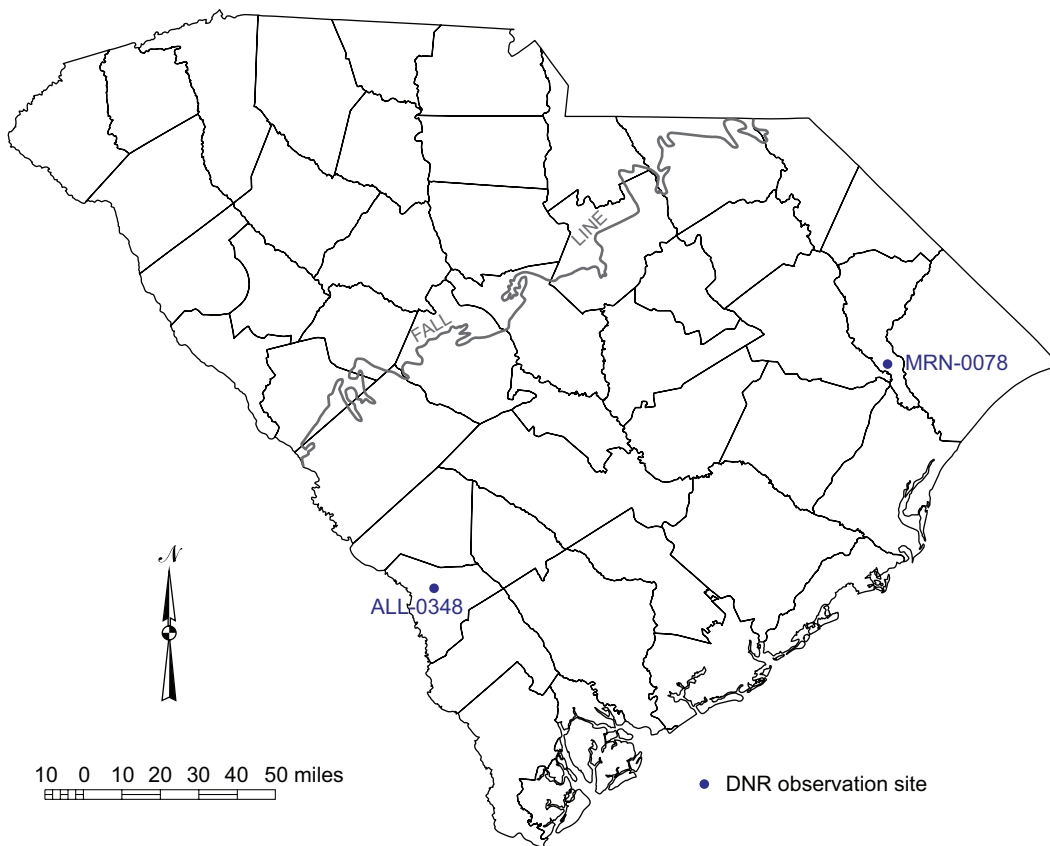
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	13.08	12.56	12.15	12.49	13.15	10.08	11.29	13.43	14.47	14.89	14.24	13.15	10.08 (Jun 20)
MEAN	13.53	12.92	12.32	12.89	13.37	12.13	12.47	13.99	14.68	15.12	14.94	13.72	13.51
LOW	14.11	13.08	12.53	13.21	13.71	13.86	13.37	14.46	14.87	15.27	15.32	14.17	15.32 (Nov 5)†
<b>2007</b>													
HIGH	11.46	11.05	10.32	9.88	10.49	12.41	12.56*	--	--	--	--	--	--
MEAN	12.25	11.24	10.83	10.94	11.59	12.59	12.82*	--	--	--	--	--	--
LOW	13.07	11.49	11.41	11.84	12.47	12.84	13.07*	--	--	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	9.65*	11.35	--	13.24	12.66	12.89	13.22	12.05	10.75	--
MEAN	--	--	--	10.57*	11.97	--	13.57	13.01	13.11	13.45	12.95	11.26	--
LOW	--	--	--	11.32*	12.56	--	14.03	13.51	13.32	13.64	13.57	11.83	--
<b>2009</b>													
HIGH	11.81	12.46	11.87	11.85	12.59	12.83	13.62	14.14	14.39	14.95	13.89	9.79	9.79 (Dec 31)
MEAN	12.22	12.76	12.07	12.20	12.72	13.13	14.09	14.32	14.80	15.16	14.54	12.40	13.37
LOW	12.54	12.98	12.67	12.58	12.84	13.57	14.51	14.56	15.28	15.40	15.01	13.90	15.40 (Oct 5)†
<b>2010</b>													
HIGH	9.86	9.71	10.69	11.59	12.55	10.79	11.97	11.20	12.08	13.21	13.58	13.78	9.71 (Feb 10)
MEAN	10.52	10.22	11.13	12.01	13.02	11.67	12.52	11.61	12.94	13.51	13.76	13.91	12.24
LOW	11.24	10.76	11.56	12.52	13.39	12.50	12.89	12.04	13.53	13.75	13.89	13.98	13.98 (Dec 30)†

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

## APPENDIX C

### Ground-water levels in the Cape Fear aquifer, 2006–2010



ALLENDALE COUNTY

WELL NUMBER: ALL-0348

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q3

LONGITUDE: 81° 23' 05"

LOCATION: Allendale, 3.5 miles west (County Road 52).

AQUIFER: Cape Fear (Gramling confining unit).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 1,605 ft. Screened from 1,575 to 1,600 ft.

LAND SURFACE ELEVATION: 281.0 ft above National Geodetic Vertical Datum of 1929.

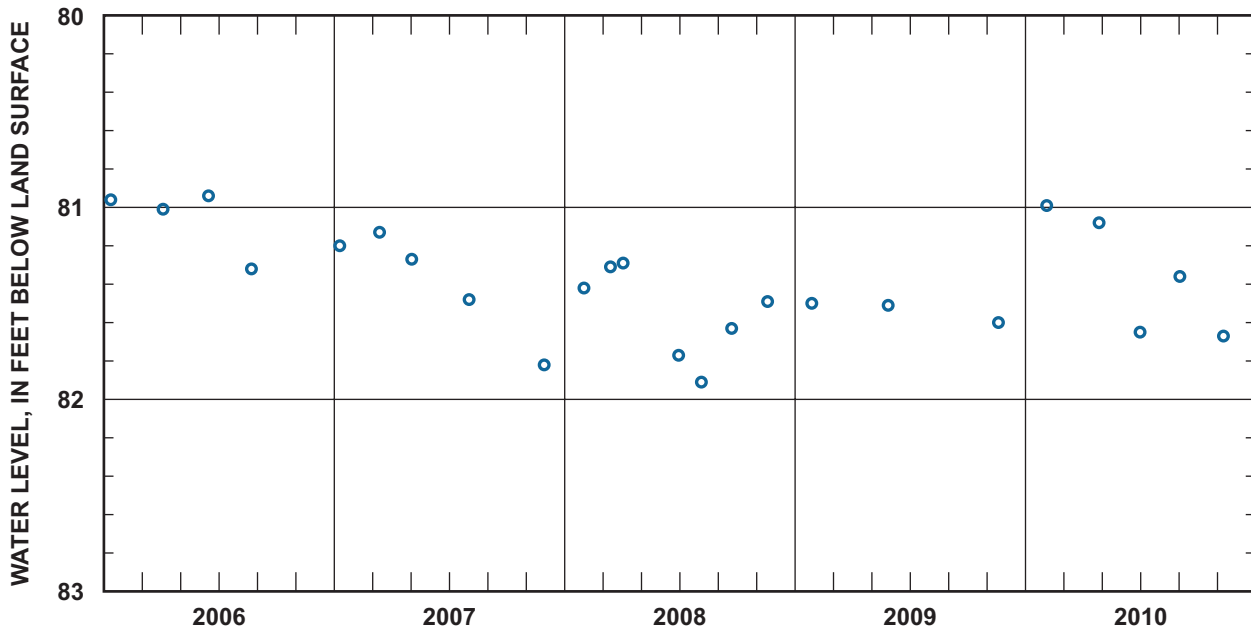
MEASURING POINT: Port in sanitary seal, 2.80 ft above land surface.

PERIOD OF RECORD: October 1996 to current year.

EXTREMES: Highest water level: 79.05 ft below land surface, February 5, 1998.

Lowest water level: 81.91 ft below land surface, August 4, 2008.

REMARKS: Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project.





MARION COUNTY

WELL NUMBER: MRN-0078

LATITUDE: 33° 51' 42"

GRID NUMBER: 10Q-p2

LONGITUDE: 79° 19' 49"

LOCATION: Brittons Neck, 3 miles south (former Brittons Neck Fire Tower).

AQUIFER: Cape Fear (Gramling).

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 1,038 ft. Screened from 1,008 to 1,028 ft.

LAND SURFACE ELEVATION: 34.63 ft above National Geodetic Vertical Datum of 1929.

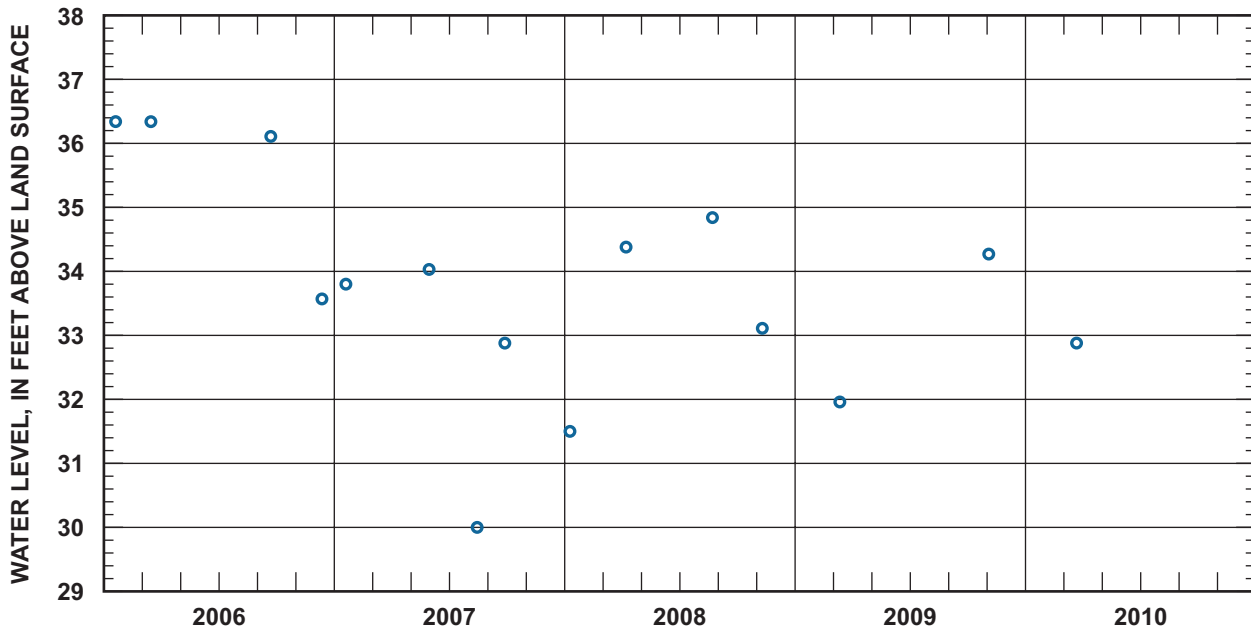
MEASURING POINT: Top of blind flange, 2.89 ft above land surface.

PERIOD OF RECORD: August 1999 to current year.

EXTREMES: Highest water level: 43.02 ft above land surface, March 30, 2001.

Lowest water level: 30.00 ft above land surface, August 15, 2007.

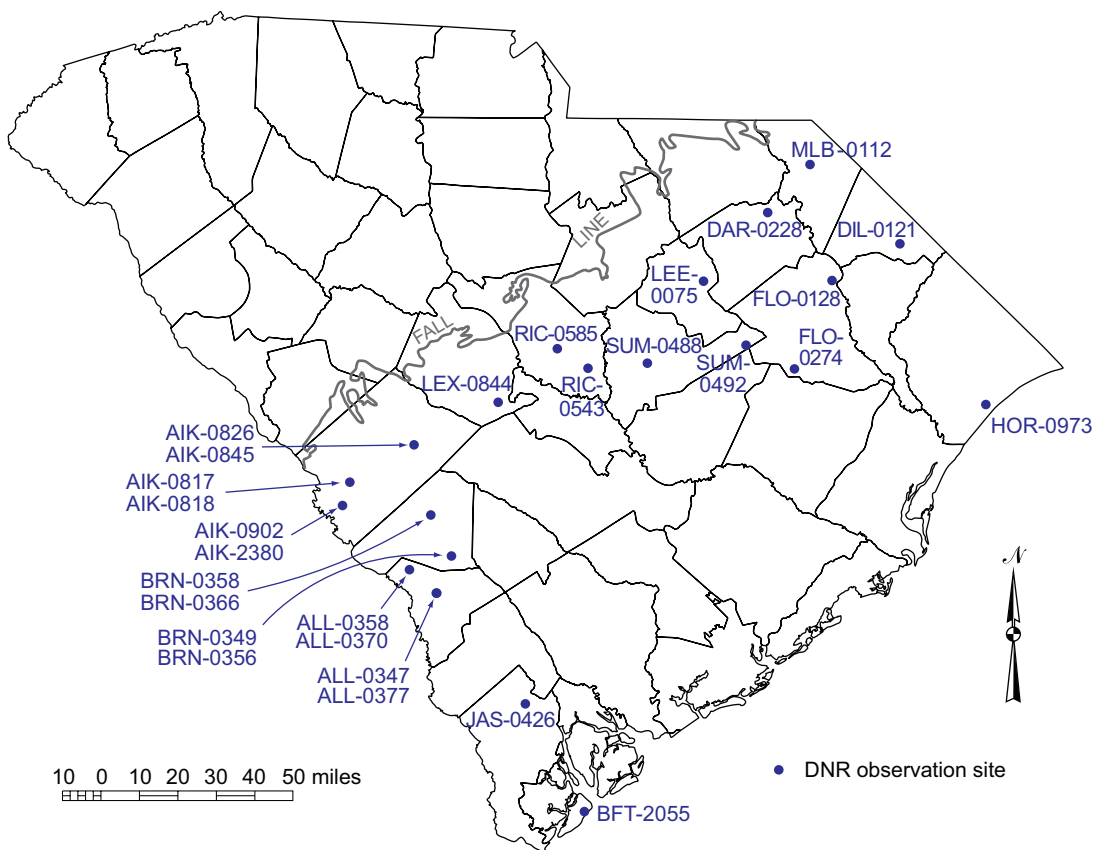
REMARKS:





## APPENDIX D

### Ground-water levels in the Middendorf aquifer, 2006–2010



AIKEN COUNTY

WELL NUMBER: AIK-0817

LATITUDE: 33° 26' 16"

GRID NUMBER: 40V-s2

LONGITUDE: 81° 46' 13"

LOCATION: New Ellenton, 4 miles west-southwest (County Road 146).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 535 ft. Screened from 520 to 530 ft.

LAND SURFACE ELEVATION: 419.0 ft above National Geodetic Vertical Datum of 1929.

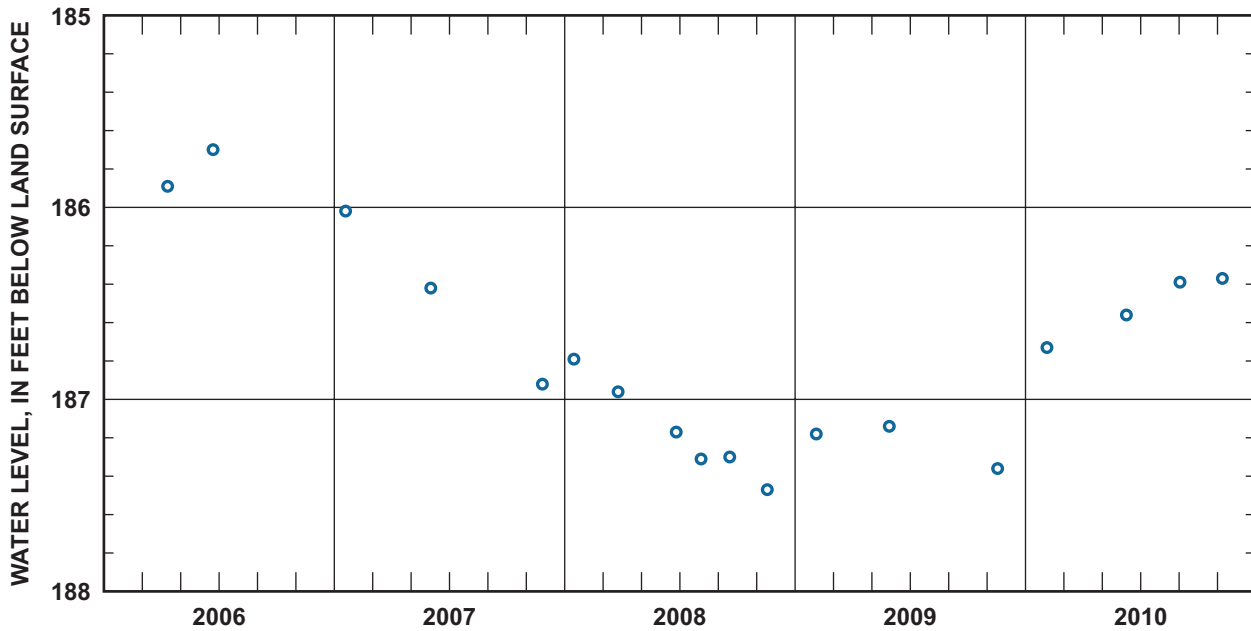
MEASURING POINT: Port in sanitary seal, 2.94 ft above land surface.

PERIOD OF RECORD: April 1998 to current year.

EXTREMES: Highest water level: 179.65 ft below land surface, February 2, 1999.

Lowest water level: 187.47 ft below land surface, November 17, 2008.

REMARKS: Well-cluster site C-2. One of five wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0818

**LATITUDE:** 33° 26' 16"

**GRID NUMBER:** 40V-s3

**LONGITUDE:** 81° 46' 13"

**LOCATION:** New Ellenton, 4 miles west-southwest (County Road 146).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 425 ft. Screened from 410 to 420 ft.

**LAND SURFACE ELEVATION:** 418.3 ft above National Geodetic Vertical Datum of 1929.

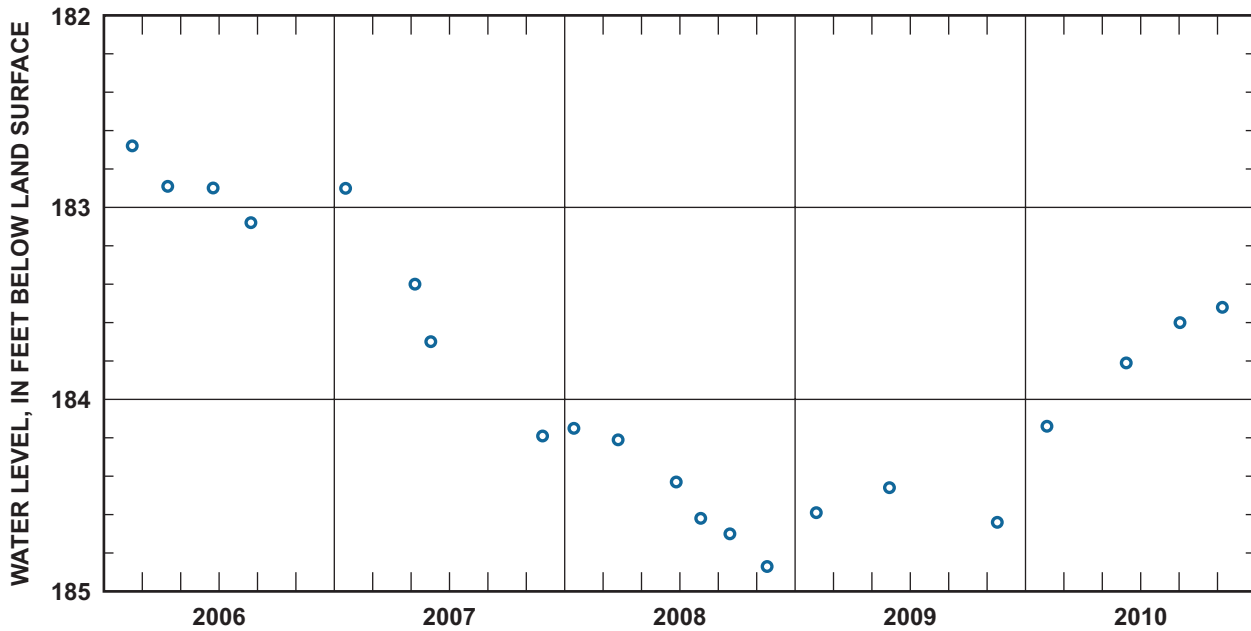
**MEASURING POINT:** Port in sanitary seal, 3.06 ft above land surface.

**PERIOD OF RECORD:** April 1988 to current year.

**EXTREMES:** Highest water level: 176.56 ft below land surface, December 28, 1995.

Lowest water level: 184.87 ft below land surface, November 17, 2008.

**REMARKS:** Well-cluster site C-2. One of five wells drilled on site for Department of Energy and DNR project.



AIKEN COUNTY

WELL NUMBER: AIK-0826

LATITUDE: 33° 32' 33"

GRID NUMBER: 36U-01

LONGITUDE: 81° 29' 09"

LOCATION: Windsor, 4 miles north-northeast (Aiken State Park).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 500 ft. Screened from 485 to 495 ft.

LAND SURFACE ELEVATION: 294.9 ft above National Geodetic Vertical Datum of 1929.

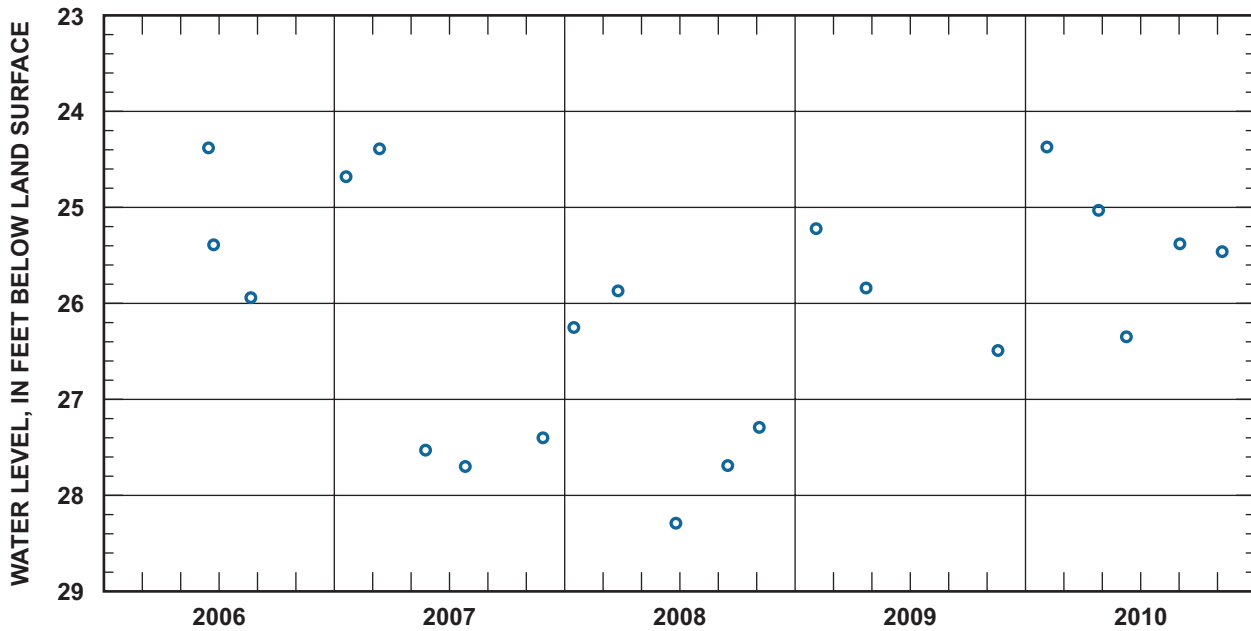
MEASURING POINT: Port in sanitary seal, 2.80 ft above land surface.

PERIOD OF RECORD: October 1989 to current year.

EXTREMES: Highest water level: 17.89 ft below land surface, March 19, 1996.

Lowest water level: 28.29 ft below land surface, June 26, 2008.

REMARKS: Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0845

**LATITUDE:** 33° 32' 33"

**GRID NUMBER:** 36U-02

**LONGITUDE:** 81° 29' 08"

**LOCATION:** Windsor, 4 miles north-northeast (Aiken State Park).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 356 ft. Screened from 341 to 351 ft.

**LAND SURFACE ELEVATION:** 296.9 ft above National Geodetic Vertical Datum of 1929.

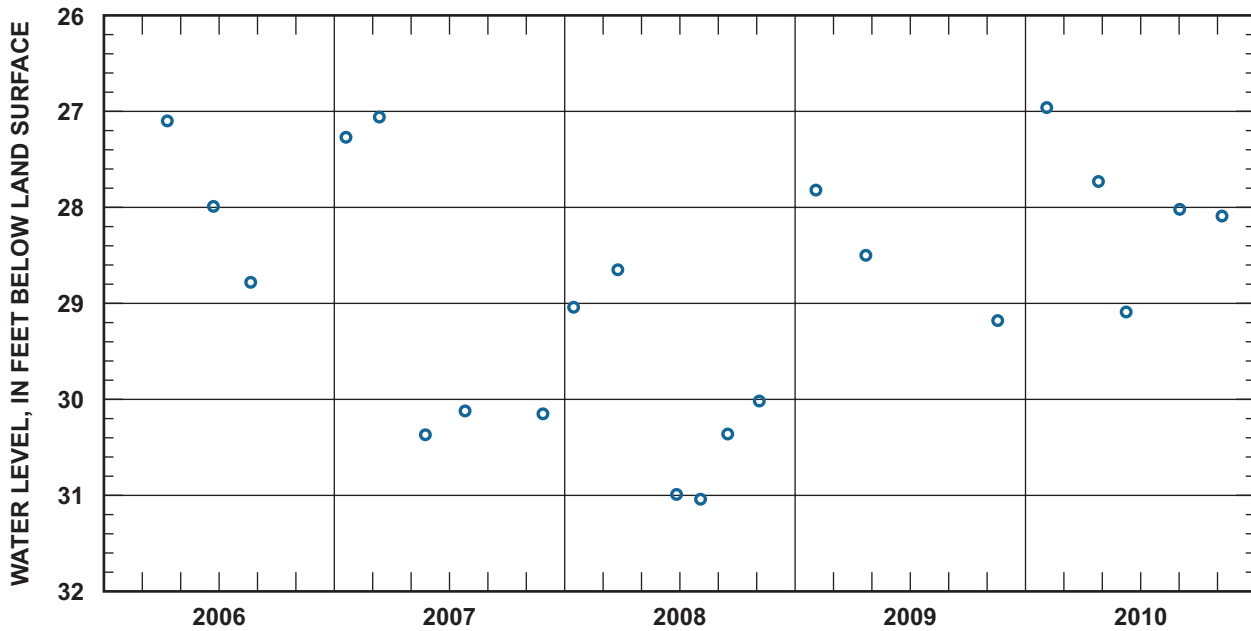
**MEASURING POINT:** Port in sanitary seal, 2.88 ft above land surface.

**PERIOD OF RECORD:** May 1993 to current year.

**EXTREMES:** Highest water level: 20.02 ft below land surface, March 19, 1996.

Lowest water level: 31.04 ft below land surface, August 4, 2008.

**REMARKS:** Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



AIKEN COUNTY

WELL NUMBER: AIK-0902

GRID NUMBER: 40W-q1

LOCATION: Jackson, 1 mile northwest (S.C. Highway 125).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 511 ft. Screened from 496 to 506 ft.

LAND SURFACE ELEVATION: 231.87 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.70 ft above land surface.

PERIOD OF RECORD: January 2006 to current year.

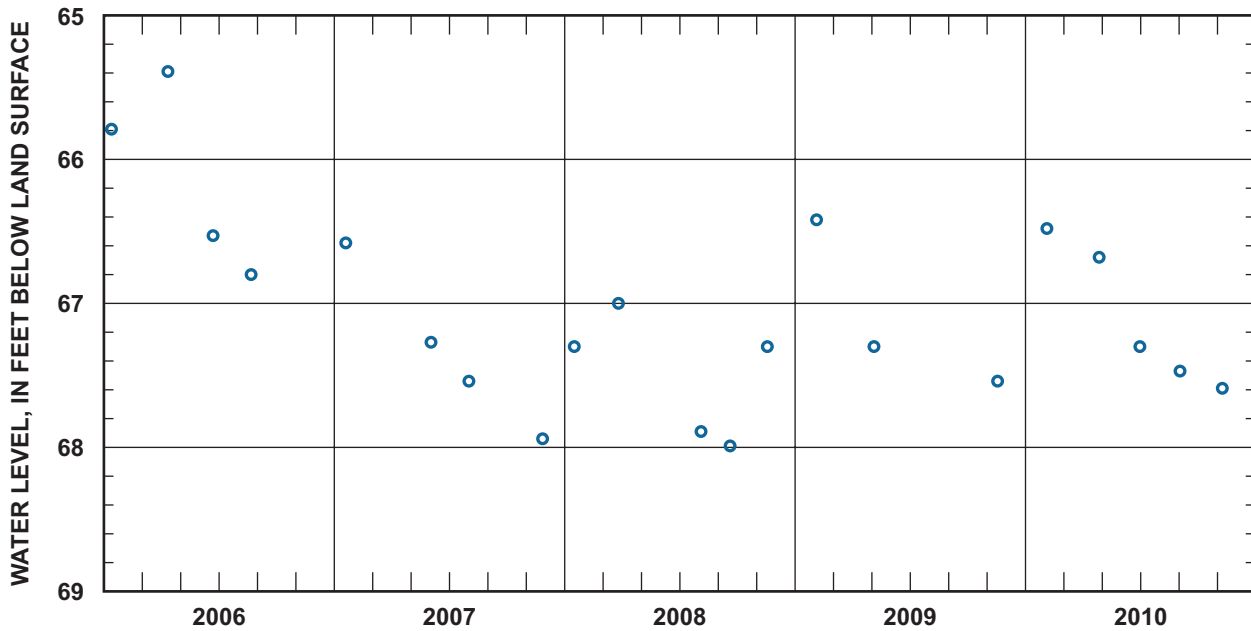
EXTREMES: Highest water level: 65.39 ft below land surface, April 12, 2006.

Lowest water level: 67.99 ft below land surface, September 19, 2008.

REMARKS: Well-cluster site C-1. One of four wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 21' 13"

LONGITUDE: 81° 48' 32"





AIKEN COUNTY

WELL NUMBER: AIK-2380

LATITUDE: 33° 21' 12"

GRID NUMBER: 40W-q4

LONGITUDE: 81° 48' 32"

LOCATION: Jackson, 1 mile northwest (S.C. Highway 125).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 385 ft. Screened from 370 to 380 ft.

LAND SURFACE ELEVATION: 228.25 ft above National Geodetic Vertical Datum of 1929.

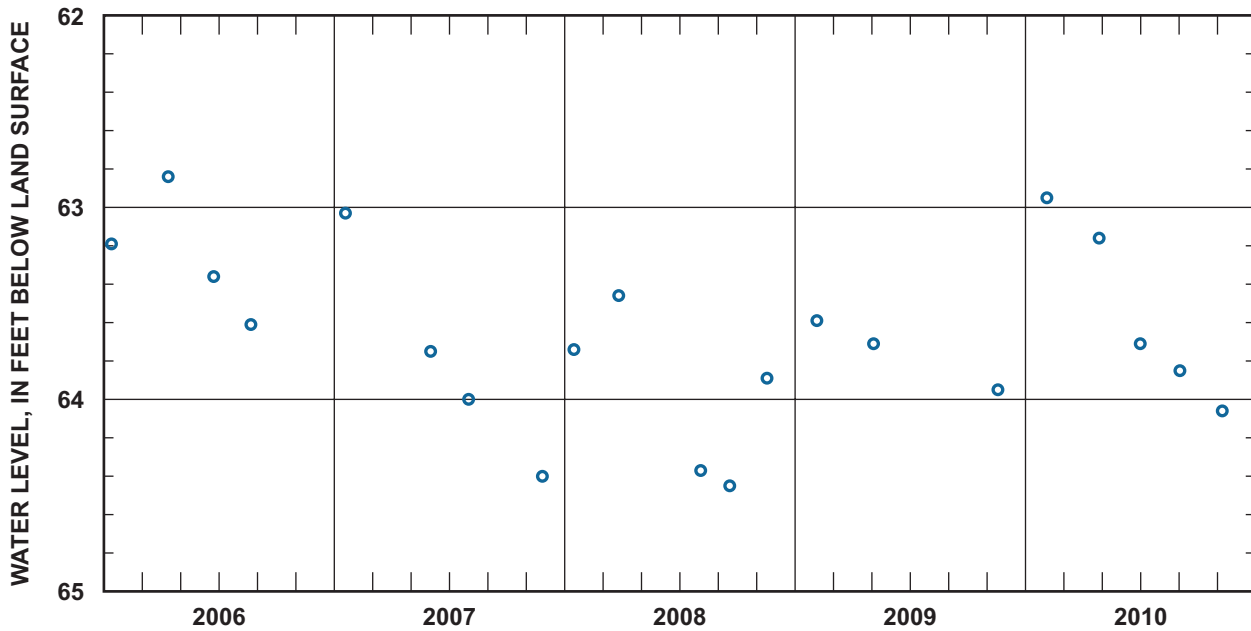
MEASURING POINT: Port in sanitary seal, 2.29 ft above land surface.

PERIOD OF RECORD: December 1995 to current year.

EXTREMES: Highest water level: 59.08 ft below land surface datum, April 2, 1996.

Lowest water level: 64.45 ft below land surface datum, September 19, 2008.

REMARKS: Well-cluster site C-1. One of four wells drilled on site for Department of Energy and DNR project.



ALLENDALE COUNTY

WELL NUMBER: ALL-0347

GRID NUMBER: 35AA-q2

LOCATION: Allendale, 3.5 miles west (County Road 52).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 1,423 ft. Screened from 1,408 to 1,418 ft.

LAND SURFACE ELEVATION: 281.8 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.25 ft above land surface.

PERIOD OF RECORD: October 1996 to current year.

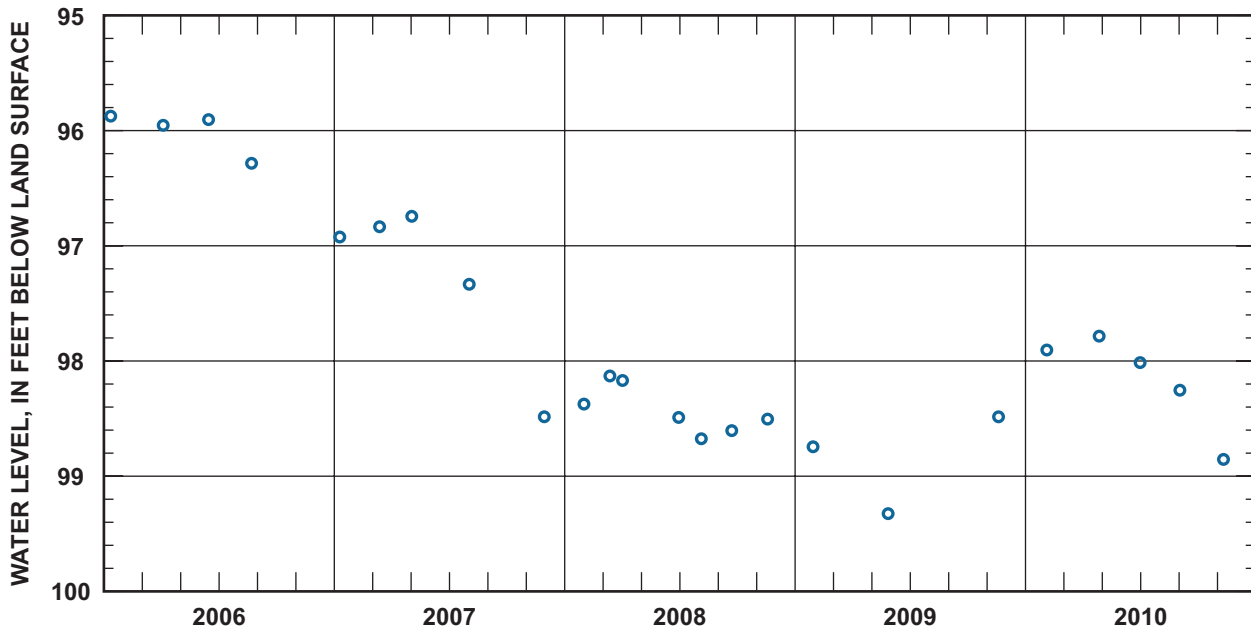
EXTREMES: Highest water level: 88.20 ft below land surface datum, March 14, 1997.

Lowest water level: 99.32 ft below land surface datum, May 27, 2009.

REMARKS: Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 01' 29"

LONGITUDE: 81° 23' 03"



ALLENDALE COUNTY

WELL NUMBER: ALL-0358

LATITUDE: 33° 06' 48"

GRID NUMBER: 37Z-t3

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter test well. Depth: 1,123 ft. Screened from 1,108 to 1,118 ft.

LAND SURFACE ELEVATION: 243.12 ft above National Geodetic Vertical Datum of 1929.

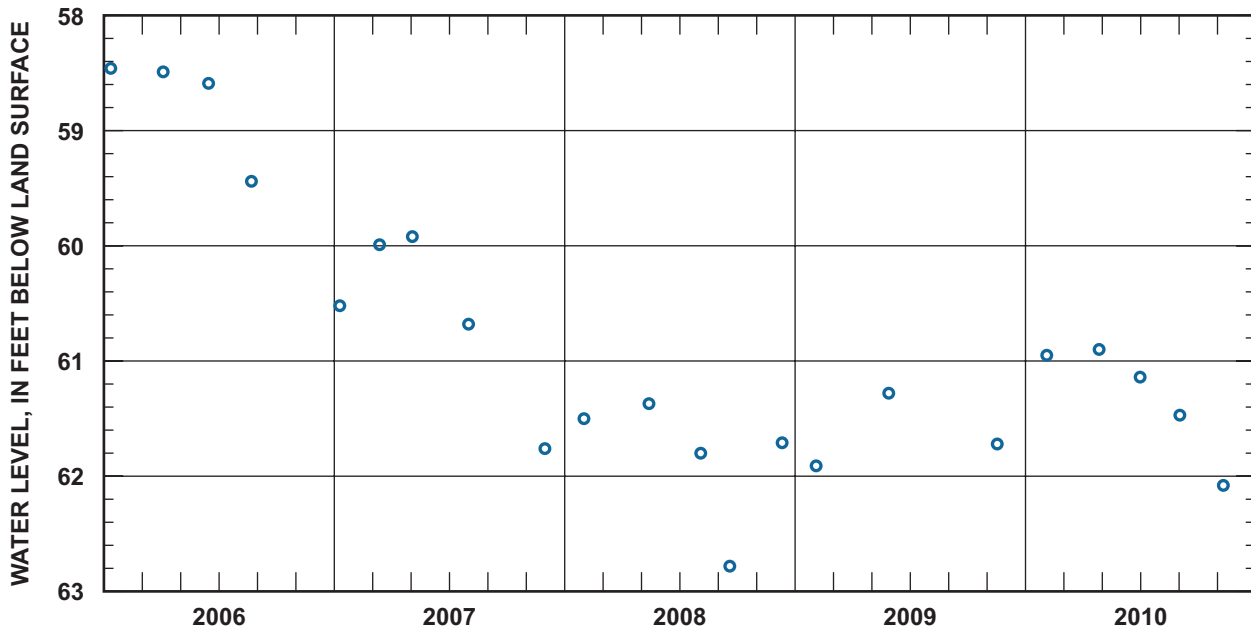
MEASURING POINT: Port in sanitary seal, 2.00 ft above land surface.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 52.57 ft below land surface datum, March 19, 1996.

Lowest water level: 62.78 ft below land surface datum, September 19, 2008.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.



ALLENDALE COUNTY

WELL NUMBER: ALL-0370

GRID NUMBER: 37Z-t11

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 975 ft. Screened from 960 to 970 ft.

LAND SURFACE ELEVATION: 245.12 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.41 ft above land surface.

PERIOD OF RECORD: January 2006 to current year.

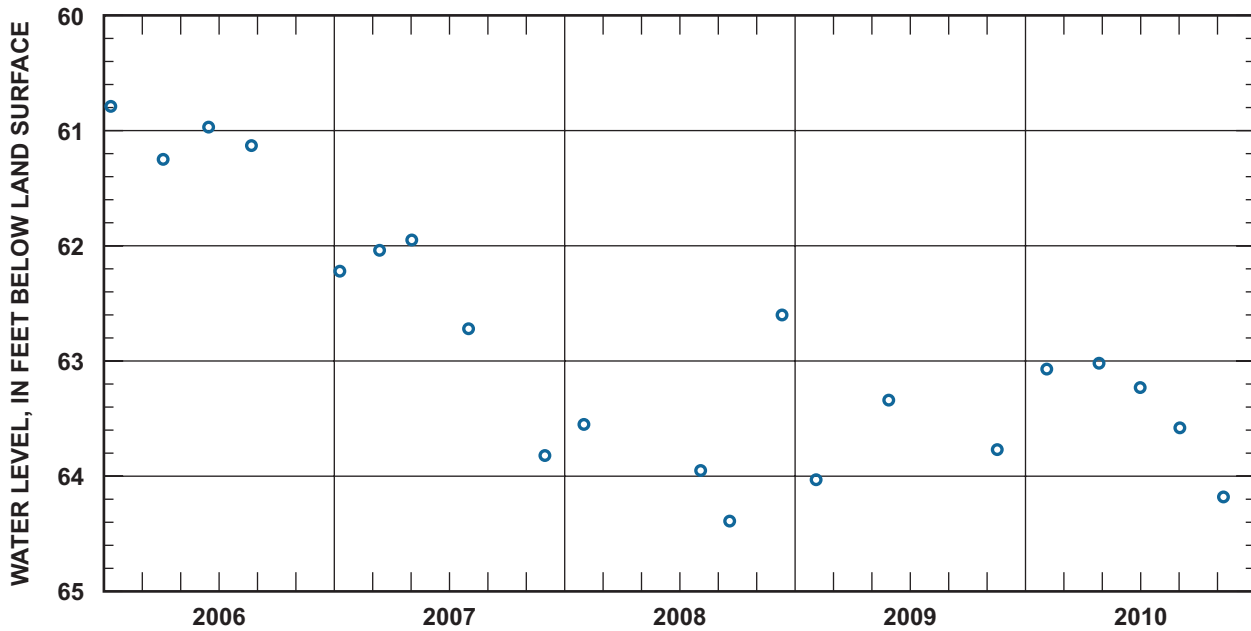
EXTREMES: Highest water level: 60.79 ft below land surface, January 12, 2006.

Lowest water level: 64.39 ft below land surface, September 19, 2008.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 06' 48"

LONGITUDE: 81° 30' 21"



**ALLENDALE COUNTY**

**WELL NUMBER:** ALL-0377

**LATITUDE:** 33° 01' 29"

**GRID NUMBER:** 35AA-q10

**LONGITUDE:** 81° 23' 04"

**LOCATION:** Allendale, 3.5 miles west (County Road 52).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 1,199 ft. Screened from 1,174 to 1,194 ft.

**LAND SURFACE ELEVATION:** 281.52 ft above National Geodetic Vertical Datum of 1929.

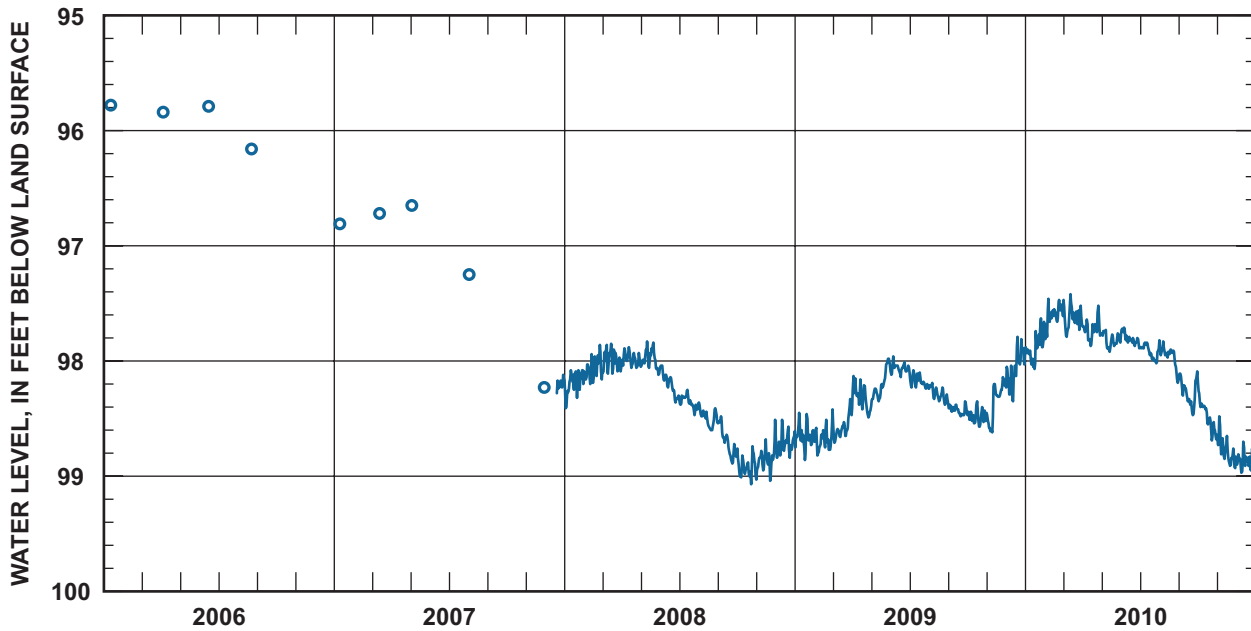
**MEASURING POINT:** Port in sanitary seal, 3.52 ft above land surface.

**PERIOD OF RECORD:** October 1996 to current year.

**EXTREMES:** Highest water level: 87.94 ft below land surface, April 18, 1997.

Lowest water level: 99.07 ft below land surface, October 23, 2008.

**REMARKS:** Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>	HIGH	98.08	97.86	97.85	97.88	97.83	98.04	98.25	98.36	98.48	98.74	98.51	97.83 (May 11)
	MEAN	98.19	98.08	98.00	97.98	97.99	98.20	98.36	98.50	98.70	98.92	98.85	98.37
	LOW	98.41	98.20	98.11	98.06	98.12	98.36	98.47	98.60	98.89	99.07	99.04	99.07 (Oct 23)
<b>2009</b>	HIGH	98.45	98.51	98.33	98.13	97.98	97.96	98.08	98.19	98.35	98.35	98.14	97.79 (Dec 19)
	MEAN	98.65	98.69	98.57	98.32	98.21	98.06	98.18	98.29	98.43	98.48	98.35	98.36
	LOW	98.86	98.82	98.71	98.49	98.39	98.14	98.24	98.38	98.48	98.57	98.62	98.86 (Jan 16)
<b>2010</b>	HIGH	97.63	97.46	97.42	97.52	97.73	97.71	97.84	97.82	98.09	98.19	98.48	97.42 (Mar 13)
	MEAN	97.89	97.60	97.62	97.73	97.82	97.80	97.92	97.96	98.27	98.48	98.78	98.06
	LOW	98.07	97.81	97.79	97.87	97.92	97.89	98.02	98.19	98.47	98.69	98.93	98.97 (Dec 9)

**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0349

**LATITUDE:** 33° 10' 43"

**GRID NUMBER:** 34Y-x1

**LONGITUDE:** 81° 18' 52"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 1,045 ft. Screened from 1,030 to 1,040 ft.

**LAND SURFACE ELEVATION:** 208.6 ft above National Geodetic Vertical Datum of 1929.

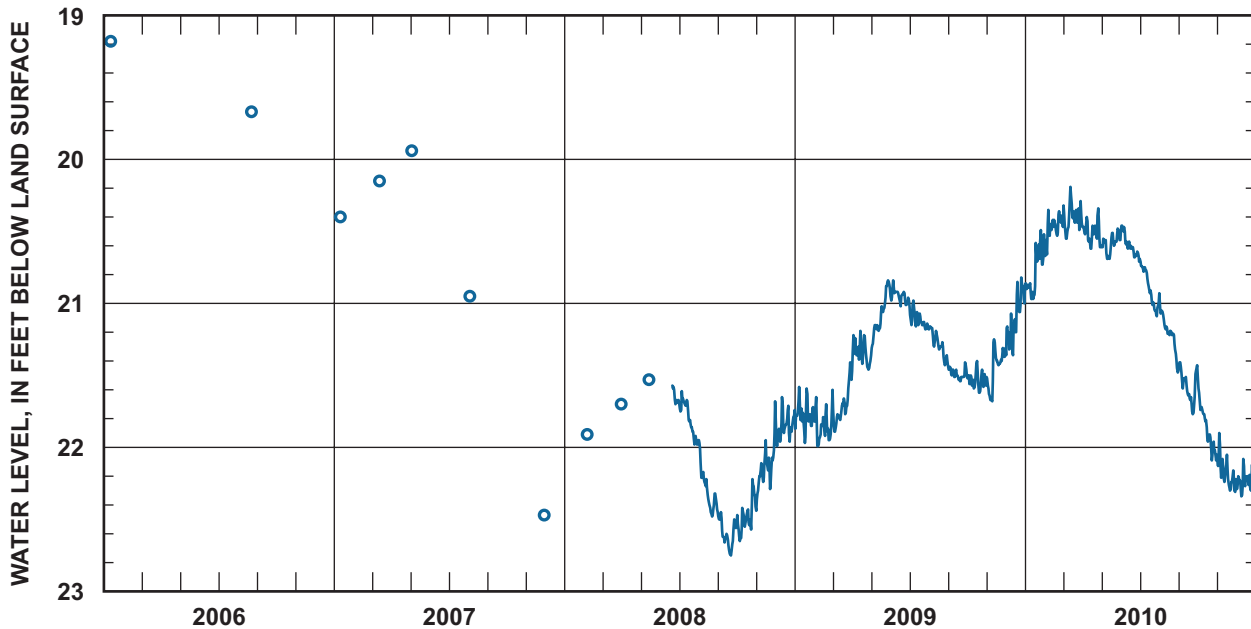
**MEASURING POINT:** Port in sanitary seal, 3.33 ft above land surface.

**PERIOD OF RECORD:** April 1988 to current year.

**EXTREMES:** Highest water level: 9.59 ft below land surface, May 13, 1993.

Lowest water level: 22.76 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> HIGH	--	--	--	--	--	--	21.61	21.95	22.45	22.22	21.68	21.65	--
<b>2008</b> MEAN	--	--	--	--	--	--	21.80	22.29	22.60	22.47	22.13	21.85	--
<b>2008</b> LOW	--	--	--	--	--	--	21.98	22.48	22.75	22.65	22.36	21.99	--
<b>2009</b> HIGH	21.58	21.65	21.41	21.19	20.84	20.84	20.98	21.16	21.41	21.40	21.25	20.82	20.82 (Dec 25)
<b>2009</b> MEAN	21.78	21.86	21.71	21.35	21.08	20.95	21.12	21.29	21.49	21.53	21.45	21.10	21.39
<b>2009</b> LOW	21.97	21.99	21.89	21.47	21.36	21.02	21.18	21.43	21.54	21.62	21.68	21.36	21.99 (Feb 5)†
<b>2010</b> HIGH	20.49	20.35	20.19	20.34	20.48	20.46	20.69	20.93	21.41	21.53	21.90	22.08	20.19 (Mar 13)
<b>2010</b> MEAN	20.78	20.47	20.40	20.51	20.58	20.59	20.89	21.20	21.57	21.87	22.17	22.24	21.11
<b>2010</b> LOW	20.97	20.67	20.55	20.62	20.69	20.71	21.09	21.48	21.77	22.09	22.31	22.34	22.34 (Dec 9)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0356

**LATITUDE:** 33° 10' 44"

**GRID NUMBER:** 34Y-x8

**LONGITUDE:** 81° 18' 52"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 929 ft. Screened from 914 to 924 ft.

**LAND SURFACE ELEVATION:** 208.6 ft above National Geodetic Vertical Datum of 1929.

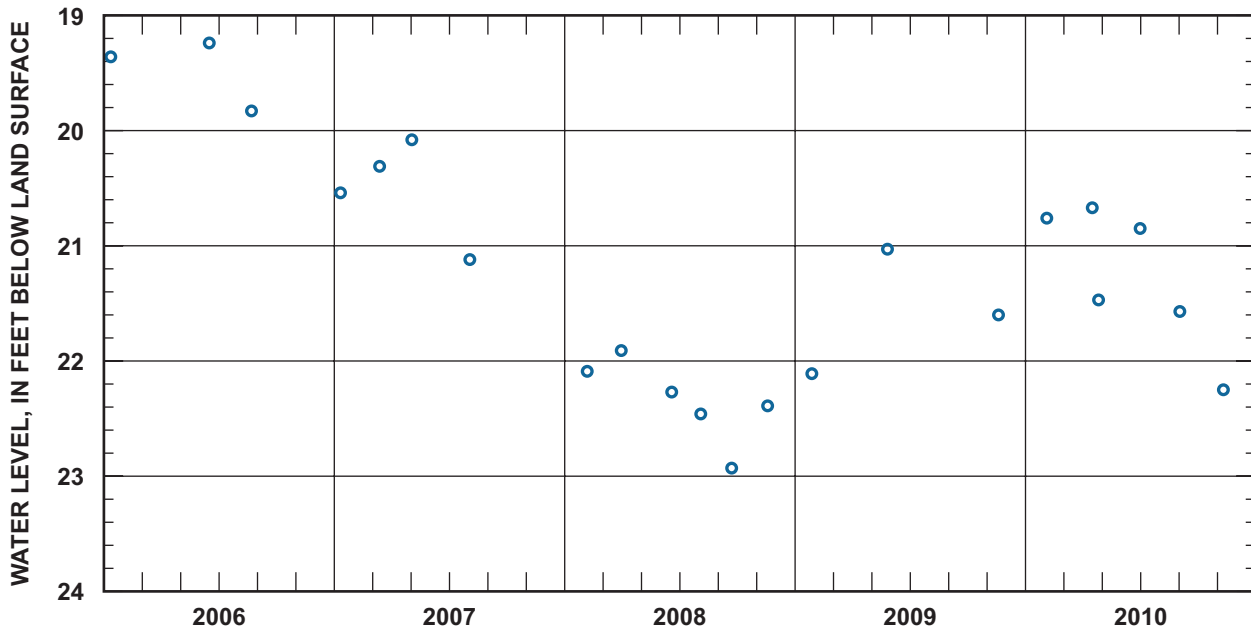
**MEASURING POINT:** Port in sanitary seal, 2.47 ft above land surface.

**PERIOD OF RECORD:** November 1989 to current year.

**EXTREMES:** Highest water level: 9.76 ft below land surface, May 13, 1993.

Lowest water level: 22.93 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



BARNWELL COUNTY

WELL NUMBER: BRN-0358

LATITUDE: 33° 19' 17"

GRID NUMBER: 35X-e2

LONGITUDE: 81° 24' 25"

LOCATION: Williston, 3.5 miles south.

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 847 ft. Screened from 832 to 842 ft.

LAND SURFACE ELEVATION: 265.6 ft above National Geodetic Vertical Datum of 1929.

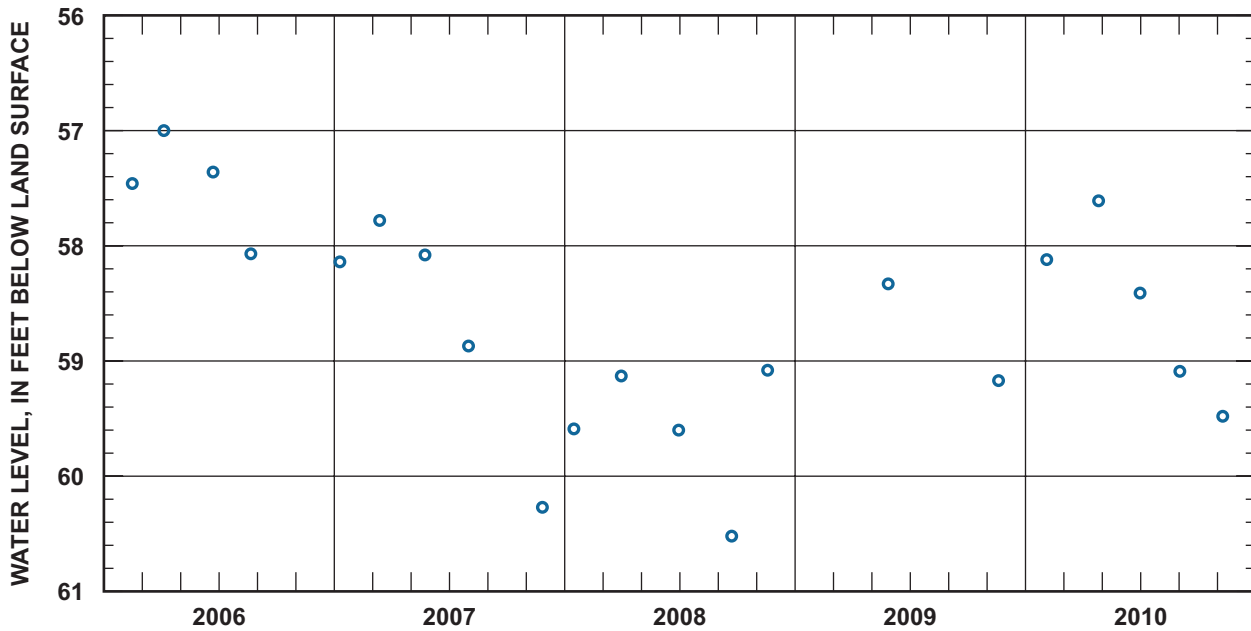
MEASURING POINT: Port in sanitary seal, 2.00 ft above land surface.

PERIOD OF RECORD: May 1993 to current year.

EXTREMES: Highest water level: 49.76 ft below land surface, March 19, 1996.

Lowest water level: 60.52 ft below land surface, September 22, 2008.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.





**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0366

**LATITUDE:** 33° 19' 17"

**GRID NUMBER:** 35X-e6

**LONGITUDE:** 81° 24' 25"

**LOCATION:** Williston, 3.5 miles south.

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 715 ft. Screened from 700 to 710 ft.

**LAND SURFACE ELEVATION:** 266.7 ft above National Geodetic Vertical Datum of 1929.

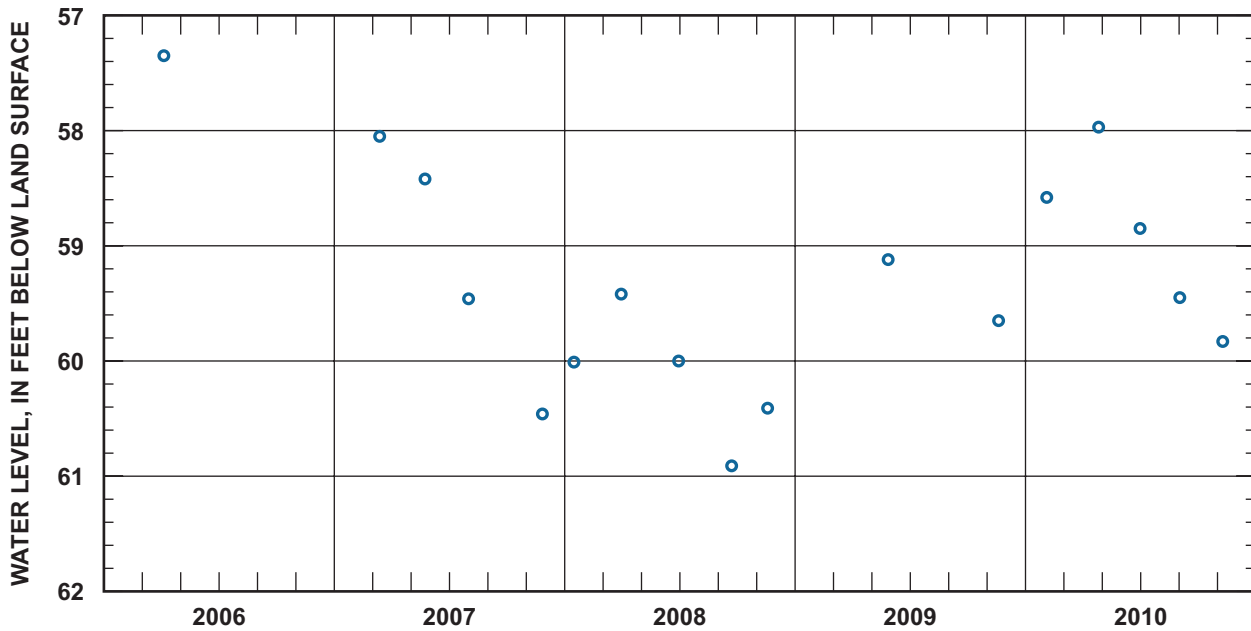
**MEASURING POINT:** Port in sanitary seal, 3.00 ft above land surface.

**PERIOD OF RECORD:** May 1993 to current year.

**EXTREMES:** Highest water level: 49.89 ft below land surface, March 19, 1996.

Lowest water level: 60.91 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.



BEAUFORT COUNTY

WELL NUMBER: BFT-2055

LATITUDE: 32° 11' 29"

GRID NUMBER: 27KK-r14

LONGITUDE: 80° 42' 14"

LOCATION: Hilton Head Island (near Singleton Beach).

AQUIFER: Middendorf and Cape Fear (Charleston and Gramling).

WELL CHARACTERISTICS: 8-inch diameter test well. Depth: 3,708 ft. Screened from 2,782 to 3,688 ft.

LAND SURFACE ELEVATION: 12.14 ft above National Geodetic Vertical Datum of 1929.

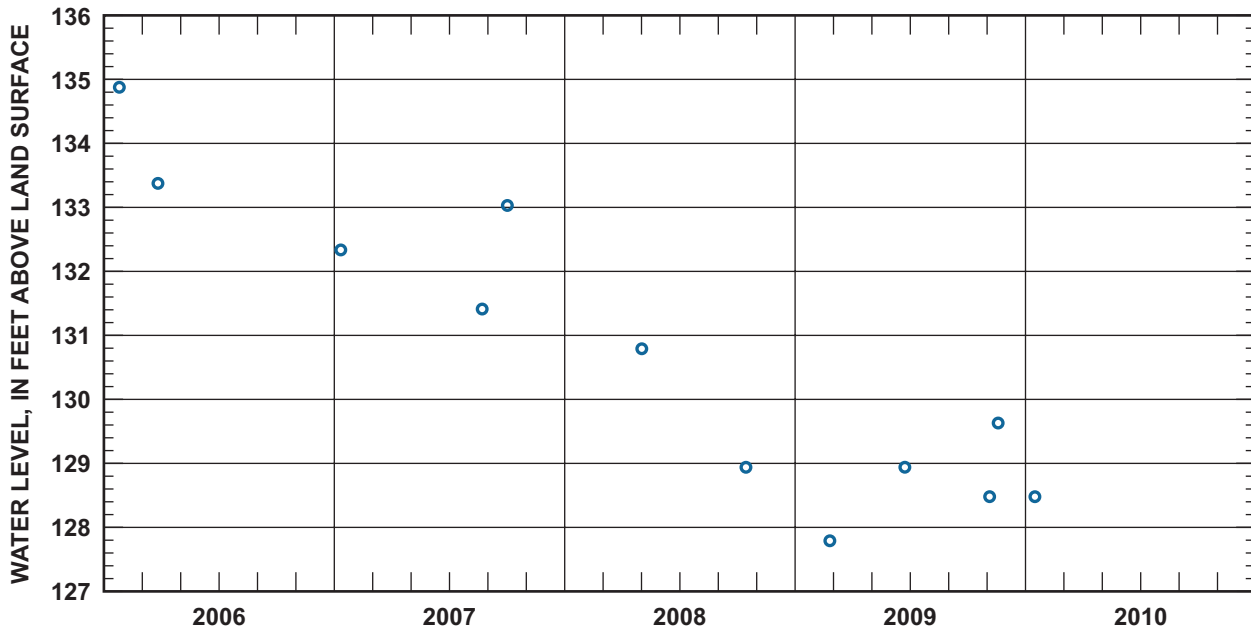
MEASURING POINT: Top of 8-inch blind flange, 3.90 ft above concrete pad at land surface.

PERIOD OF RECORD: April 2000 to current year.

EXTREMES: Highest water level: 153.05 ft above land surface datum, April 1, 2000.

Lowest water level: 127.79 ft above land surface datum, February 24, 2009.

REMARKS: Flowing well measured with 0-100 psi gage. Middendorf-Cape Fear well at south end of island began pumping in late 2001.



**DARLINGTON COUNTY**

**WELL NUMBER:** DAR-0228

**LATITUDE:** 34° 27' 32"

**GRID NUMBER:** 17J-m1

**LONGITUDE:** 79° 52' 48"

**LOCATION:** Society Hill, 3 miles south-southwest (Lake Darpo).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 186 ft. Screened from 175 to 185 ft.

**LAND SURFACE ELEVATION:** 170 ft (estimate) above National Geodetic Vertical Datum of 1929.

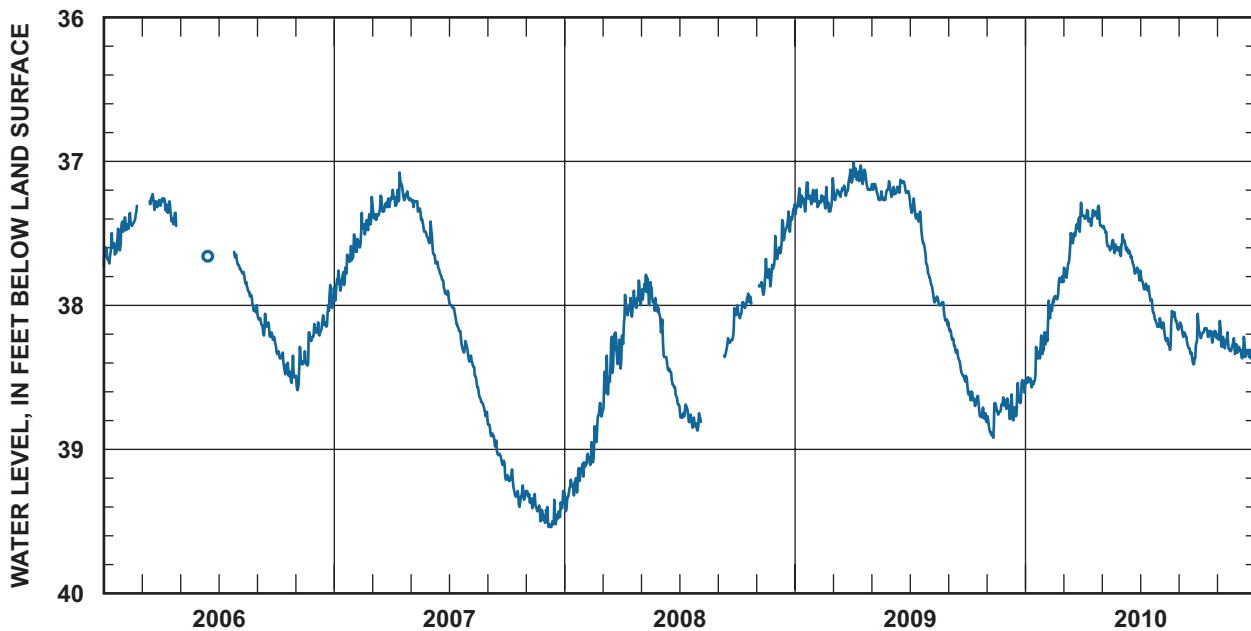
**MEASURING POINT:** Port in base of enclosure, 1.70 ft above land surface.

**PERIOD OF RECORD:** November 1999 to current year.

**EXTREMES:** Highest water level: 36.30 ft below land surface, April 25, 2000.

Lowest water level: 40.57 ft below land surface, September 30, 2002.

**REMARKS:** Drilled and cored for DNR/USGS Pee Dee region ground-water study.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 37.42	37.31*	--	37.26	--	--	--	37.71	38.00	38.28	38.19	37.86	--
	MEAN 37.60	37.42*	--	37.34	--	--	--	37.87	38.15	38.41	38.37	38.10	--
	LOW 37.73	37.49*	--	37.45	--	--	--	38.05	38.27	38.54	38.59	38.21	--
<b>2007</b>	HIGH 37.59	37.36	37.24	37.08	37.26	37.42	37.91	38.33	38.79	39.14	39.29	39.29	37.08 (Apr 15)
	MEAN 37.78	37.50	37.33	37.24	37.37	37.73	38.14	38.55	38.98	39.28	39.39	39.46	38.23
	LOW 37.97	37.63	37.41	37.31	37.56	37.93	38.33	38.77	39.21	39.40	39.50	39.54	39.54 (Dec 7)†
<b>2008</b>	HIGH 39.10	38.68	38.19	37.83	37.79	38.10	38.69	--	38.02*	37.92*	37.52	37.30	37.30 (Dec 31)
	MEAN 39.25	38.96	38.43	38.01	37.94	38.45	38.79	--	38.22*	38.00*	37.80	37.49	38.30
	LOW 39.43	39.12	38.74	38.27	38.07	38.69	38.87	--	38.36*	38.09*	37.93	37.68	39.43 (Jan 3)
<b>2009</b>	HIGH 37.15	37.18	37.06	37.01	37.14	37.13	37.26	37.81	38.16	38.60	38.64	38.52	37.01 (Apr 3)
	MEAN 37.27	37.28	37.20	37.12	37.21	37.20	37.47	37.98	38.37	38.70	38.76	38.67	37.77
	LOW 37.37	37.35	37.27	37.20	37.27	37.25	37.79	38.14	38.60	38.81	38.92	38.80	38.92 (Nov 9)
<b>2010</b>	HIGH 38.19	37.80	37.29	37.31	37.45	37.51	37.76	38.04	38.06	38.14	38.11	38.22	37.29 (Mar 29)
	MEAN 38.42	37.98	37.57	37.39	37.57	37.67	37.97	38.16	38.26	38.20	38.26	38.33	37.98
	LOW 38.57	38.27	37.84	37.45	37.66	37.83	38.15	38.31	38.41	38.26	38.34	38.38	38.57 (Jan 10)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**DILLON COUNTY**

**WELL NUMBER:** DIL-0121

**LATITUDE:** 34° 19' 42"

**GRID NUMBER:** 10L-b1

**LONGITUDE:** 79° 16' 59"

**LOCATION:** Dillon, 6.5 miles southeast (Little Pee Dee State Park).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 294 ft. Screened from 269 to 284 ft.

**LAND SURFACE ELEVATION:** 95 ft (map estimate) above National Geodetic Vertical Datum of 1929.

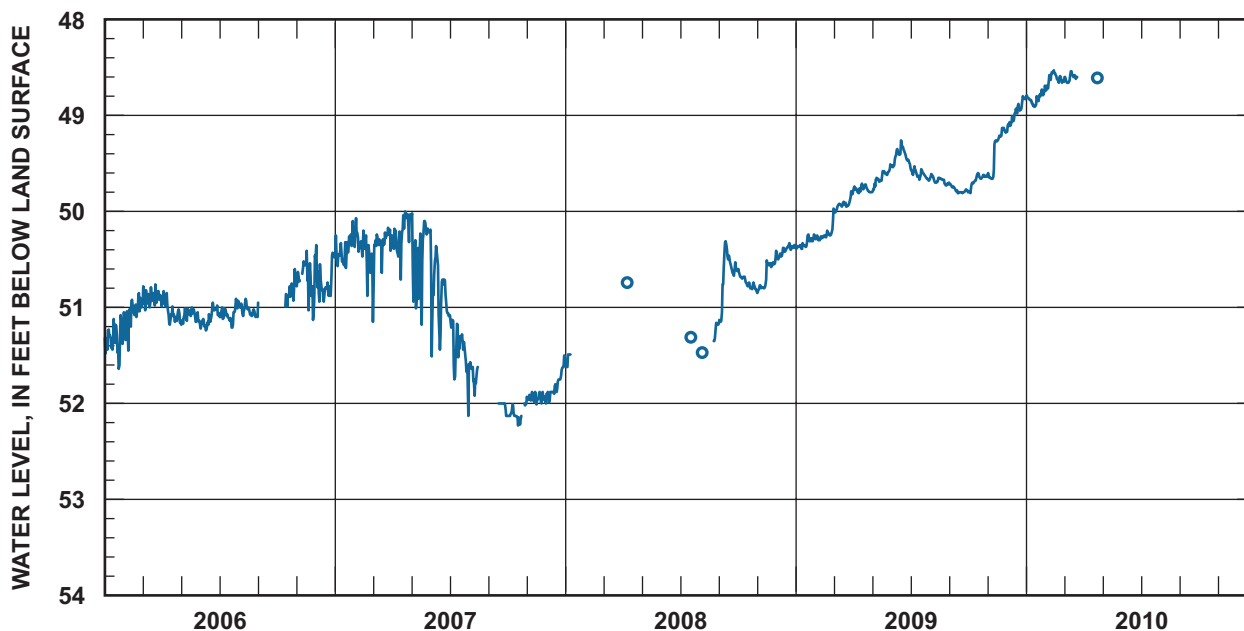
**MEASURING POINT:** Port in base of enclosure, 2.98 ft above land surface.

**PERIOD OF RECORD:** December 1999 to current year.

**EXTREMES:** Highest water level: 42.19 ft below land surface, January 30, 2000.

Lowest water level: 53.50 ft below land surface, November 11, 2004.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	51.05	50.85	50.76	50.83	51.00	50.95	50.91	50.91	--	50.60*	50.41	50.35	50.35 (Dec 2)
	MEAN	51.32	51.06	50.90	51.04	51.09	51.11	51.07	51.03	--	50.83*	50.70	50.71	50.99
	LOW	51.64	51.45	51.03	51.18	51.18	51.24	51.21	51.10	--	50.99*	51.13	50.94	51.64 (Jan 23)
<b>2007</b>	HIGH	50.10	50.07	50.17	50.00	50.02	50.19	51.08	--	--	52.00	51.88	51.50	50.00 (Apr 22)
	MEAN	50.40	50.38	50.35	50.22	50.41	50.83	51.40	--	--	52.11	51.94	51.80	50.99
	LOW	50.59	50.88	51.15	50.71	51.18	51.51	52.13	--	--	52.23	52.01	52.00	52.23 (Oct 18)
<b>2008</b>	HIGH	--	--	--	--	--	--	--	50.31	50.60	50.41	50.33	--	
	MEAN	--	--	--	--	--	--	--	50.64	50.74	50.65	50.40	--	
	LOW	--	--	--	--	--	--	--	51.15	50.85	50.83	50.50	--	
<b>2009</b>	HIGH	50.24	50.10	49.79	49.71	49.51	49.26	49.53	49.61	49.71	49.60	49.13	48.80	48.80 (Dec 26)
	MEAN	50.33	50.25	49.93	49.77	49.65	49.42	49.61	49.68	49.78	49.67	49.35	48.97	49.70
	LOW	50.39	50.30	50.01	49.81	49.80	49.54	49.68	49.73	49.81	49.81	49.66	49.17	50.39 (Jan 1)†
<b>2010</b>	HIGH	48.69	48.53	48.54*	--	--	--	--	--	--	--	--	--	--
	MEAN	48.82	48.62	48.61*	--	--	--	--	--	--	--	--	--	--
	LOW	48.91	48.74	48.66*	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

FLORENCE COUNTY

WELL NUMBER: FLO-0128

LATITUDE: 34° 11' 44"

GRID NUMBER: 13M-p3

LONGITUDE: 79° 34' 49"

LOCATION: Florence, 9.5 miles east (E.I. Dupont de Nemours Co.).

AQUIFER: Middendorf and Cape Fear (McQueen Branch and Gramling confining unit).

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 695 ft. Screened from 265 to 690 ft.

LAND SURFACE ELEVATION: 96 ft (map estimate) above National Geodetic Vertical Datum of 1929.

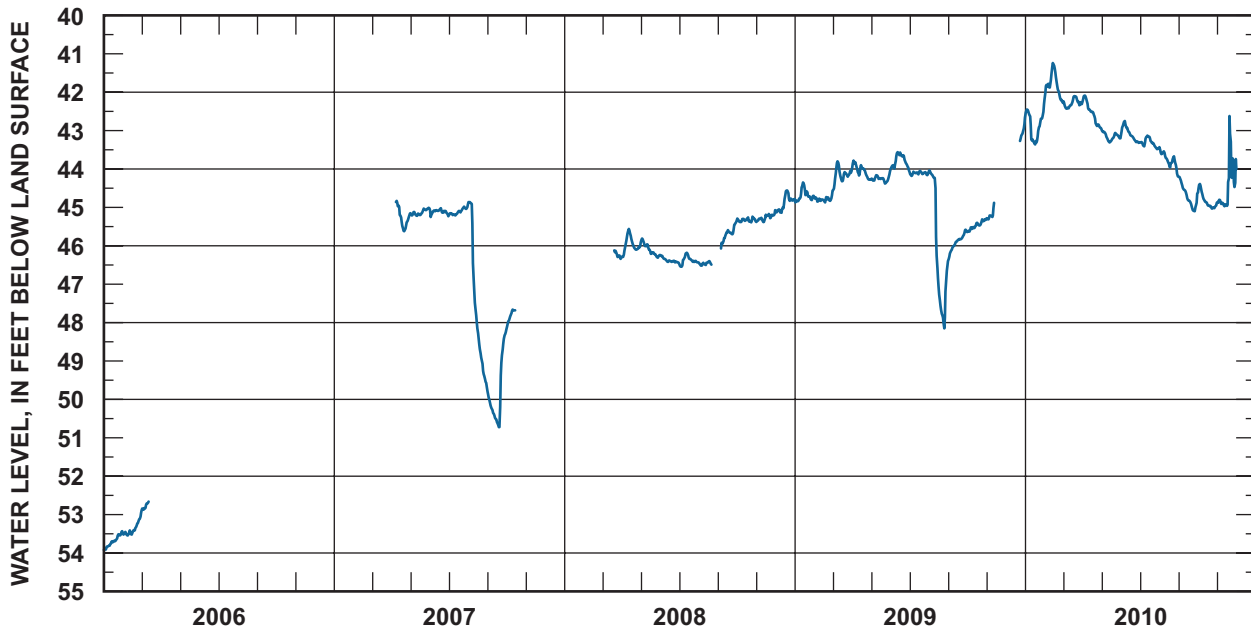
MEASURING POINT: Top of sanitary seal, 2.75 ft above land surface.

PERIOD OF RECORD: January 1982 to current year.

EXTREMES: Highest water level: 41.24 ft below land surface, February 13, 2010.

Lowest water level: 92.07 ft below land surface, August 16, 1999.

REMARKS: Monitored by USGS from January 1982 until November 2009, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	53.43	53.05	52.66	--	--	--	--	--	--	--	--	--	--
MEAN	53.69	53.39	52.80	--	--	--	--	--	--	--	--	--	--
LOW	53.92	53.54	52.95	--	--	--	--	--	--	--	--	--	--
<b>2007</b>													
HIGH	--	--	--	44.83	45.01	45.02	44.98	44.86	48.25	47.66	--	--	--
MEAN	--	--	--	45.27	45.13	45.11	45.12	47.59	49.82	47.84	--	--	--
LOW	--	--	--	45.62	45.22	45.25	45.23	49.70	50.72	48.18	--	--	--
<b>2008</b>													
HIGH	--	--	46.12	45.56	45.81	46.24	46.18	46.40	45.34	45.24	45.07	44.56	44.56 (Dec 18)†
MEAN	--	--	46.24	45.97	46.10	46.38	46.37	46.46	45.68	45.33	45.26	44.88	45.87
LOW	--	--	46.34	46.29	46.31	46.44	46.54	46.52	46.07	45.39	45.38	45.14	46.54 (Jul 3)†
<b>2009</b>													
HIGH	44.35	44.68	43.80	43.78	44.06	43.56	44.05	44.04	45.58	45.28	--	--	43.56 (Jun 12)
MEAN	44.68	44.79	44.16	44.04	44.25	43.79	44.11	46.11	45.89	45.46	--	--	44.73
LOW	44.87	44.87	44.56	44.28	44.38	44.04	44.18	48.15	46.34	45.64	--	--	48.15 (Aug 25)
<b>2010</b>													
HIGH	42.18	41.24	42.10	42.09	42.96	42.75	43.13	43.43	44.20	44.39	42.62	--	41.24 (Feb 13)
MEAN	42.85	41.78	42.29	42.52	43.15	43.08	43.32	43.77	44.71	44.82	44.46	--	43.34
LOW	43.36	42.24	42.43	42.93	43.31	43.32	43.48	44.20	45.10	45.03	44.97	--	45.10 (Sep 26)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

FLORENCE COUNTY

WELL NUMBER: FLO-0274

LATITUDE: 33° 51' 21"

GRID NUMBER: 16Q-s1

LONGITUDE: 79° 46' 00"

LOCATION: Lake City (Lake City Airport).

AQUIFER: Middendorf (McQueen Branch).

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 560 ft. Screened from 540 to 560 ft.

LAND SURFACE ELEVATION: 78.53 ft above National Geodetic Vertical Datum of 1929.

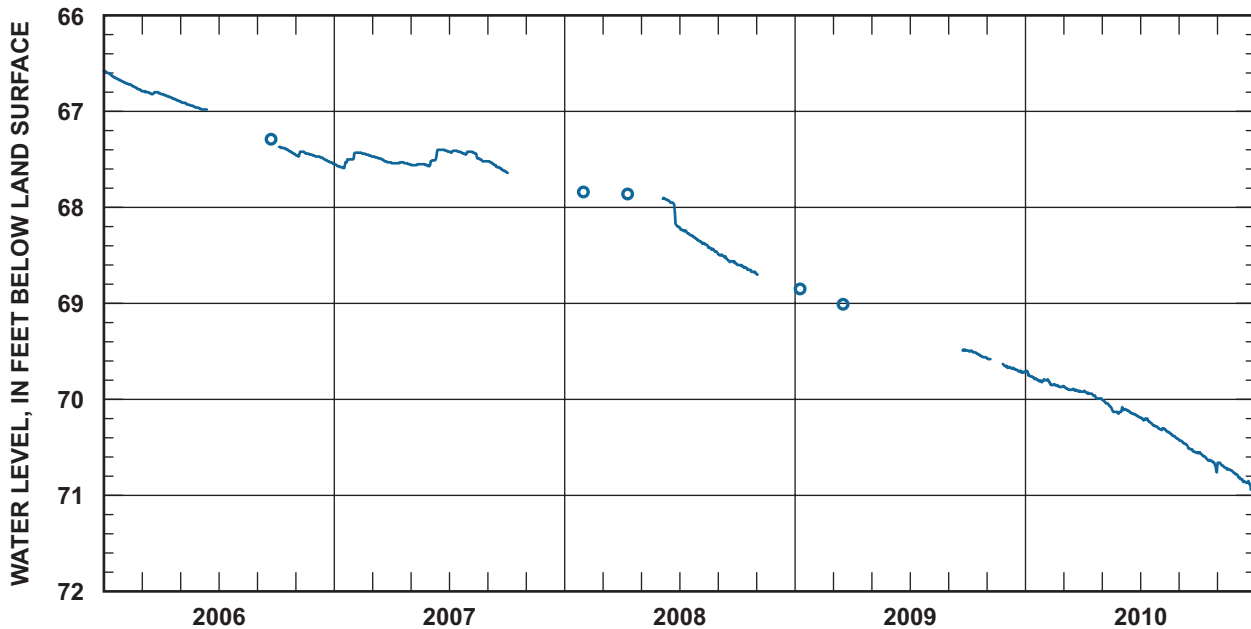
MEASURING POINT: Port in base of enclosure, 1.34 ft above land surface.

PERIOD OF RECORD: September 2000 to current year.

EXTREMES: Highest water level: 58.61 ft below land surface, March 23, 2001.

Lowest water level: 70.97 ft below land surface, December 30, 2010.

REMARKS: Drilled and cored for DNR/USGS Pee Dee region ground-water study. Possible collapsed well screen.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	66.58	66.69	66.78	66.82	66.89	--	--	--	--	67.37	67.42	67.46	--
MEAN	66.64	66.73	66.80	66.85	66.93	--	--	--	--	67.40	67.44	67.50	--
LOW	66.69	66.78	66.82	66.89	66.96	--	--	--	--	67.45	67.47	67.55	--
<b>2007</b>													
HIGH	67.50	67.43	67.47	67.53	67.55	67.40	67.41	67.42	67.52	--	--	--	--
MEAN	67.54	67.44	67.50	67.54	67.56	67.45	67.42	67.47	67.57	--	--	--	--
LOW	67.59	67.49	67.53	67.55	67.57	67.57	67.45	67.52	67.63	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	--	--	67.90	68.21	68.35	68.49	68.60	--	--	--
MEAN	--	--	--	--	--	68.00	68.27	68.41	68.54	68.64	--	--	--
LOW	--	--	--	--	--	68.20	68.34	68.48	68.59	68.69	--	--	--
<b>2009</b>													
HIGH	--	--	--	--	--	--	--	--	--	69.49	69.40	69.65	--
MEAN	--	--	--	--	--	--	--	--	--	69.53	69.50	69.69	--
LOW	--	--	--	--	--	--	--	--	--	69.57	69.65	69.72	--
<b>2010</b>													
HIGH	69.70	69.79	69.86	69.91	69.99	70.08	70.19	70.30	70.42	70.55	70.66	70.78	69.70 (Jan 2)
MEAN	69.77	69.84	69.90	69.95	70.08	70.14	70.24	70.35	70.49	70.62	70.72	70.86	70.25
LOW	69.82	69.87	69.92	69.99	70.15	70.18	70.30	70.41	70.56	70.76	70.78	70.97	70.97 (Dec 30)

HORRY COUNTY

WELL NUMBER: HOR-0973

LATITUDE: 33° 43' 23"

GRID NUMBER: 5S-f1

LONGITUDE: 78° 54' 12"

LOCATION: Myrtle Beach (Myrtle Beach Surface Water Treatment Plant).

AQUIFER: Middendorf and Cape Fear (Gramling).

WELL CHARACTERISTICS: 14-inch diameter test well. Depth: 1,331 ft. Screened from 1,012 to 1,328 ft.

LAND SURFACE ELEVATION: 20 ft (map estimate) above National Geodetic Vertical Datum of 1929.

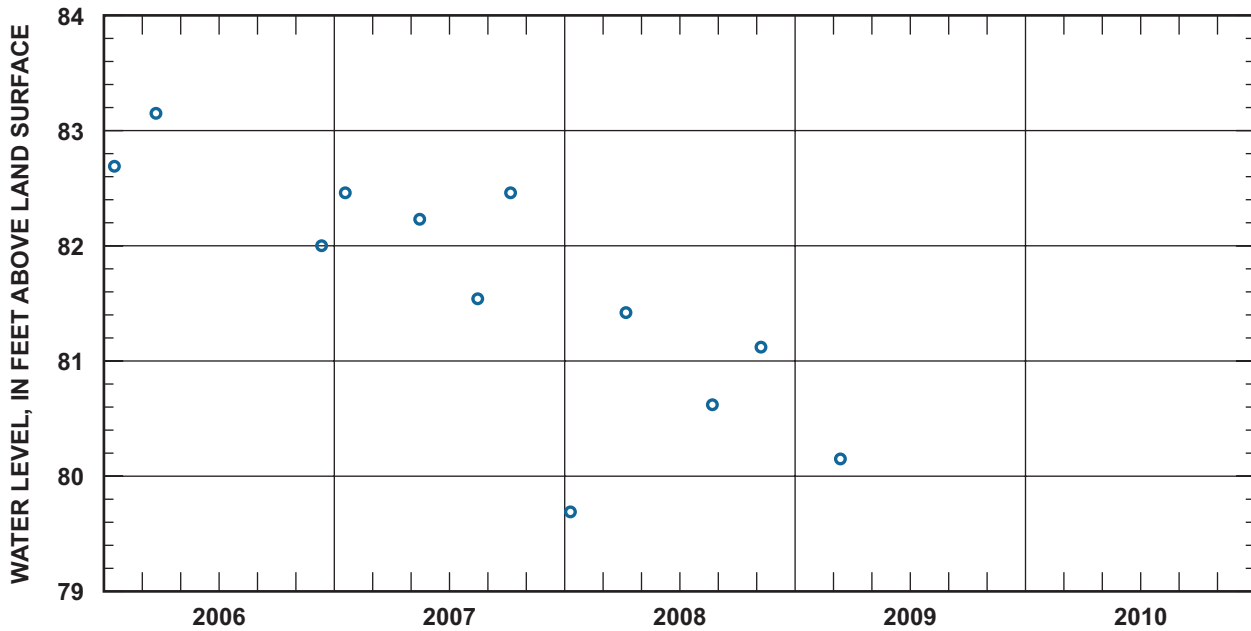
MEASURING POINT: Top of 12-inch flange, 3.37 ft above concrete pad at land surface.

PERIOD OF RECORD: August 1999 to current year.

EXTREMES: Highest water level: 85.69 ft above land surface, November 4, 1999.

Lowest water level: 79.69 ft above land surface, January 10, 2008.

REMARKS:



JASPER COUNTY

WELL NUMBER: JAS-0426

LATITUDE: 32° 37' 06"

GRID NUMBER: 30FF-o2

LONGITUDE: 80° 59' 43"

LOCATION: Ridgeland, 9 miles north-northwest (U.S. Highway 278).

AQUIFER: Middendorf (Charleston).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 1,994 ft. Screened from 1,949 to 1,994 ft.

LAND SURFACE ELEVATION: 63.20 ft above National Geodetic Vertical Datum of 1929.

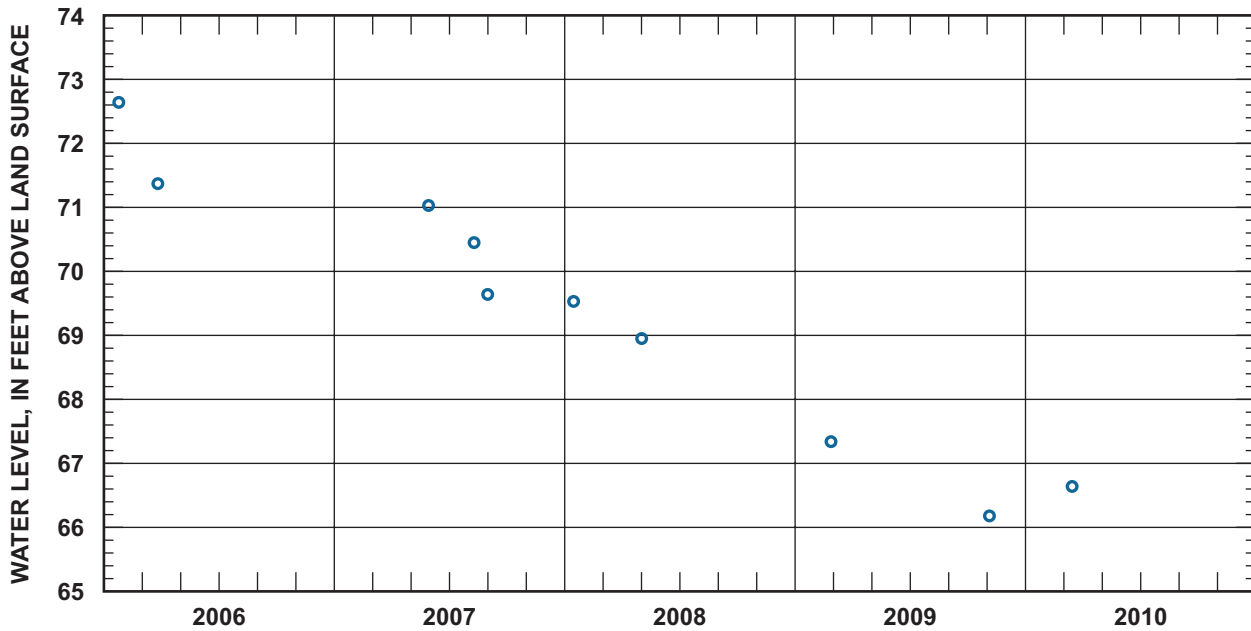
MEASURING POINT: Top of well-head blind flange, 2.74 ft above concrete pad at land surface.

PERIOD OF RECORD: April 2000 to current year.

EXTREMES: Highest water level: 79.56 ft above land surface, April 17, 2000.

Lowest water level: 66.18 ft above land surface, November 4, 2009.

REMARKS: One of two wells drilled for U.S. Department of Energy and DNR project.





## LEE COUNTY

**WELL NUMBER:** LEE-0075

**LATITUDE:** 34° 12' 09"

**GRID NUMBER:** 21M-k1

**LONGITUDE:** 80° 10' 30"

**LOCATION:** Bishopville, 3.5 miles east-southeast (Lee State Park).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 356 ft. Screened from 306 to 356 ft.

**LAND SURFACE ELEVATION:** 195 ft (map estimate) above National Geodetic Vertical Datum of 1929.

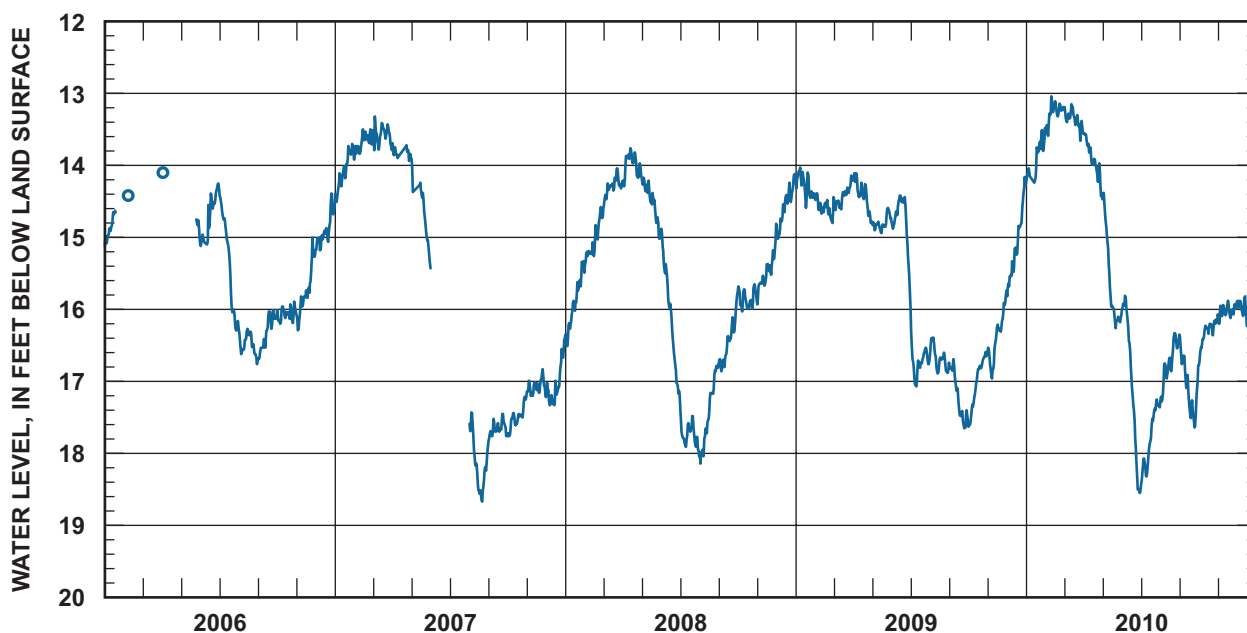
**MEASURING POINT:** Port in base of enclosure, 3.55 ft above land surface.

**PERIOD OF RECORD:** December 1999 to current year.

**EXTREMES:** Highest water level: 12.52 ft below land surface, April 2, 2005.

Lowest water level: 19.05 ft below land surface, August 10, 2002.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 14.63*	--	--	--	--	14.25	14.33	16.27	16.01	15.89	15.00	14.39	--
	MEAN 14.86*	--	--	--	--	14.74	15.33	16.48	16.31	16.06	15.75	14.91	--
	LOW 15.12*	--	--	--	--	15.12	16.29	16.76	16.69	16.20	16.29	15.18	--
<b>2007</b>	HIGH 13.70	13.50	13.32	13.69*	13.91*	--	--	17.43	17.45	17.21	16.83	16.40	13.32 (Mar 5)
	MEAN 14.07	13.68	13.57	13.82*	14.60*	--	--	18.14	17.66	17.50	17.07	17.03	15.71
	LOW 14.51	13.84	13.79	13.94*	15.34*	--	--	18.67	17.83	17.76	17.20	17.33	18.67 (Aug 22)
<b>2008</b>	HIGH 15.33	14.58	14.04	13.76	14.17	14.88	17.39	16.75	15.75	15.65	14.81	14.12	13.76 (Apr 13)
	MEAN 15.90	15.04	14.30	13.99	14.51	16.06	17.74	17.40	16.42	15.85	15.46	14.54	15.60
	LOW 16.51	15.37	14.60	14.29	15.02	17.17	18.04	18.14	16.86	16.03	15.85	15.02	18.14 (Aug 2)
<b>2009</b>	HIGH 14.03	14.39	14.14	14.11	14.59	14.42	16.00	16.39	16.69	16.59	15.74	14.16	14.03 (Jan 7)
	MEAN 14.29	14.60	14.42	14.40	14.80	14.76	16.71	16.68	17.22	17.00	16.37	15.07	15.53
	LOW 14.59	14.80	14.62	14.80	14.94	15.79	17.07	16.89	17.65	17.63	16.96	15.82	17.65 (Sep 24)
<b>2010</b>	HIGH 13.48*	13.04	13.15	13.56	14.38	15.81	17.25	16.33	16.38	16.07	15.88	15.82	13.04 (Feb 9)
	MEAN 13.87*	13.26	13.35	13.90	15.59	17.01	17.80	16.74	17.07	16.32	16.02	16.01	15.58
	LOW 14.24*	13.59	13.66	14.43	16.26	18.55	18.46	17.28	17.64	16.77	16.20	16.23	18.55 (Jun 29)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**LEXINGTON COUNTY**

**WELL NUMBER:** LEX-0844

**LATITUDE:** 33° 44' 46"

**GRID NUMBER:** 32S-b4

**LONGITUDE:** 81° 06' 27"

**LOCATION:** Swansea (Swansea High School Freshman Academy).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 522 ft. Screened from 392 to 502 ft.

**LAND SURFACE ELEVATION:** 360 ft (map estimate) above National Geodetic Vertical Datum of 1929.

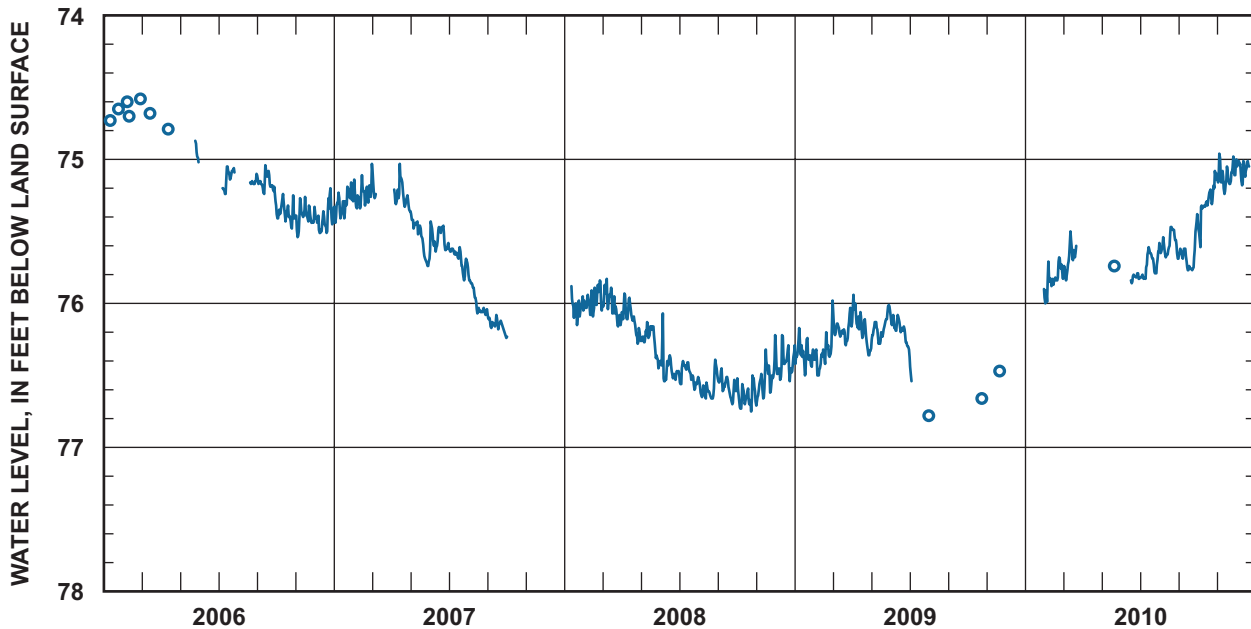
**MEASURING POINT:** Port in base of enclosure, 3.35 ft above land surface.

**PERIOD OF RECORD:** October 1999 to current year.

**EXTREMES:** Highest water level: 69.02 ft below land surface, November 15, 1999.

Lowest water level: 76.75 ft below land surface, October 23, 2008.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	--	--	--	--	--	75.05*	--	75.04	75.24	75.26	75.20	--
MEAN	--	--	--	--	--	--	75.13*	--	75.16	75.37	75.40	75.41	--
LOW	--	--	--	--	--	--	75.24*	--	75.29	75.48	75.54	75.51	--
<b>2007</b>													
HIGH	75.16	75.11	--	75.03	75.36	75.43	75.58	75.75	76.07*	--	--	--	--
MEAN	75.31	75.24	--	75.24	75.53	75.55	75.68	75.97	76.13*	--	--	--	--
LOW	75.44	75.34	--	75.35	75.74	75.69	75.84	76.08	76.18*	--	--	--	--
<b>2008</b>													
HIGH	75.88*	75.84	75.83	75.93	76.13	76.07	76.40	76.39	76.45	76.50	76.22	76.22	75.83 (Mar 8)
MEAN	76.02*	75.98	76.01	76.10	76.26	76.45	76.49	76.58	76.58	76.64	76.52	76.41	76.37
LOW	76.15*	76.09	76.16	76.28	76.45	76.54	76.60	76.66	76.70	76.75	76.68	76.54	76.75 (Oct 23)
<b>2009</b>													
HIGH	76.17	76.14	75.98	75.94	76.01	76.08	--	--	--	--	--	--	--
MEAN	76.35	76.36	76.18	76.17	76.17	76.18	--	--	--	--	--	--	--
LOW	76.50	76.50	76.29	76.36	76.31	76.32	--	--	--	--	--	--	--
<b>2010</b>													
HIGH	--	75.68	75.50*	--	--	--	75.61	75.47	75.38	75.08	74.96	75.00*	--
MEAN	--	75.82	75.70*	--	--	--	75.74	75.59	75.66	75.30	75.11	75.06*	--
LOW	--	76.00	75.84*	--	--	--	75.83	75.69	75.77	75.61	75.24	75.18*	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**MARLBORO COUNTY**

**WELL NUMBER:** MLB-0112

**LATITUDE:** 34° 37' 34"

**GRID NUMBER:** 15H-I2

**LONGITUDE:** 79° 41' 21"

**LOCATION:** Bennettsville (Marlboro County Recreation Department Building).

**AQUIFER:** Middendorf and Cape Fear (McQueen Branch and Gramling confining unit).

**WELL CHARACTERISTICS:** 8-inch diameter observation well. Depth: 345 ft. Screened from 220 to 335 ft.

**LAND SURFACE ELEVATION:** 135 ft (map estimate) above National Geodetic Vertical Datum of 1929.

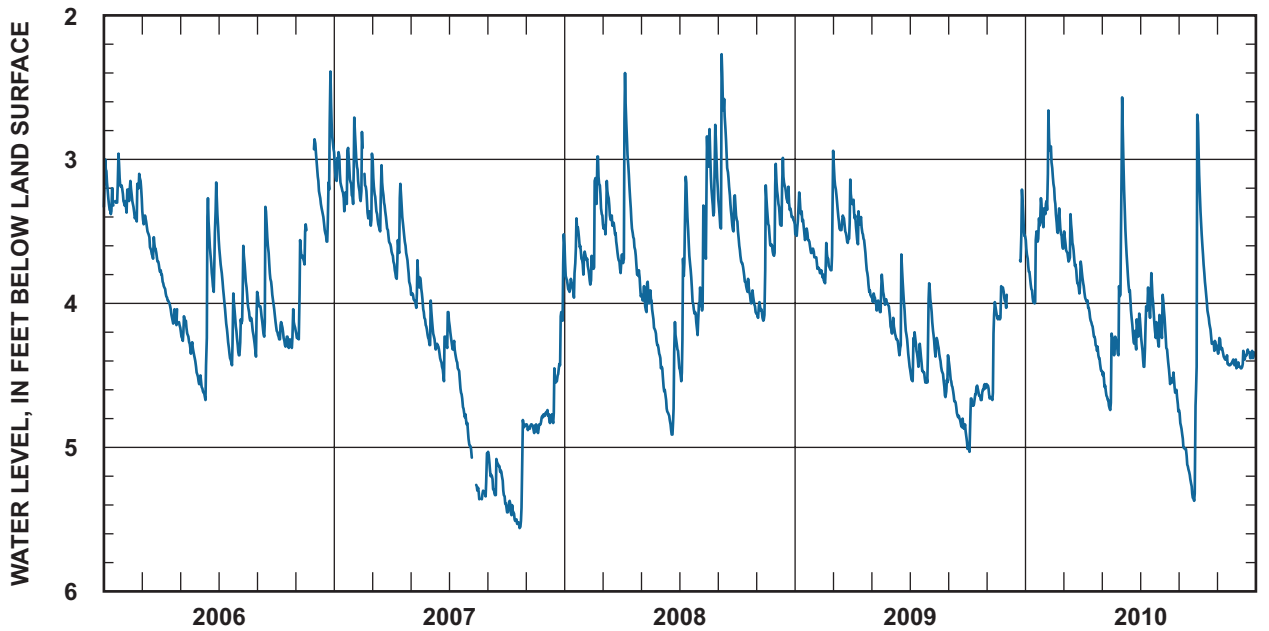
**MEASURING POINT:** Top of plywood instrument support, 1.26 ft above land surface.

**PERIOD OF RECORD:** January 1972 to current year.

**EXTREMES:** Highest water level: 0.895 ft below land surface, February 25, 1979.

Lowest water level: 5.79 ft below land surface, August 13, 2002.

**REMARKS:** Monitored by USGS until December 2009, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 2.96	3.10	3.20	3.77	4.09	3.16	3.47	3.60	3.33	4.04	2.93	2.39	2.39 (Dec 26)
	MEAN 3.22	3.27	3.55	3.99	4.28	3.99	4.05	4.09	3.90	4.22	3.79	3.15	3.79
	LOW 3.38	3.43	3.78	4.15	4.54	4.67	4.43	4.37	4.23	4.31	4.25	3.57	4.67 (Jun 11)
<b>2007</b>	HIGH 2.92	2.71	2.96	3.17	3.70	3.98	4.06	4.89	5.03	4.81	4.77	3.52	2.71 (Feb 2)
	MEAN 3.14	3.16	3.34	3.61	3.99	4.28	4.47	5.20	5.20	5.35	4.84	4.52	4.26
	LOW 3.36	3.46	3.59	3.85	4.25	4.54	4.84	5.40	5.39	5.56	4.90	4.83	5.56 (Oct 22)
<b>2008</b>	HIGH 3.41	2.98	3.15	2.40	3.85	4.13	3.12	2.76	2.27	3.43	3.18	2.99	2.27 (Sep 6)
	MEAN 3.74	3.51	3.48	3.40	4.07	4.58	3.91	3.35	3.12	3.83	3.75	3.29	3.67
	LOW 3.96	3.87	3.79	3.89	4.36	4.91	4.54	4.05	3.50	4.07	4.12	3.46	4.91 (Jun 19)†
<b>2009</b>	HIGH 3.23	3.58	2.94	3.28	3.80	3.66	3.97	3.86	4.40	4.56	3.88	--	2.94 (Mar 2)
	MEAN 3.50	3.75	3.37	3.56	3.98	4.17	4.40	4.33	4.73	4.68	4.22	--	4.06
	LOW 3.68	3.86	3.58	3.94	4.10	4.40	4.55	4.65	4.96	5.03	4.67	--	5.03 (Oct 4)
<b>2010</b>	HIGH 3.27	2.66	3.38	3.82	3.88	2.57	3.79	3.94	2.69	2.75	4.24	4.32	2.57 (Jun 3)
	MEAN 3.64	3.25	3.68	4.14	4.42	3.81	4.14	4.38	4.95	3.88	4.37	4.38	4.09
	LOW 4.00	3.59	3.93	4.46	4.74	4.32	4.44	4.75	5.37	4.33	4.43	4.45	5.37 (Sep 25)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**RICHLAND COUNTY**

**WELL NUMBER:** RIC-0543

**LATITUDE:** 33° 52' 30"

**GRID NUMBER:** 27Q-m1

**LONGITUDE:** 80° 42' 09"

**LOCATION:** Eastover (Webber Elementary School).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 420 ft. Screened from 370 to 410 ft.

**LAND SURFACE ELEVATION:** 183.82 ft above National Geodetic Vertical Datum of 1929.

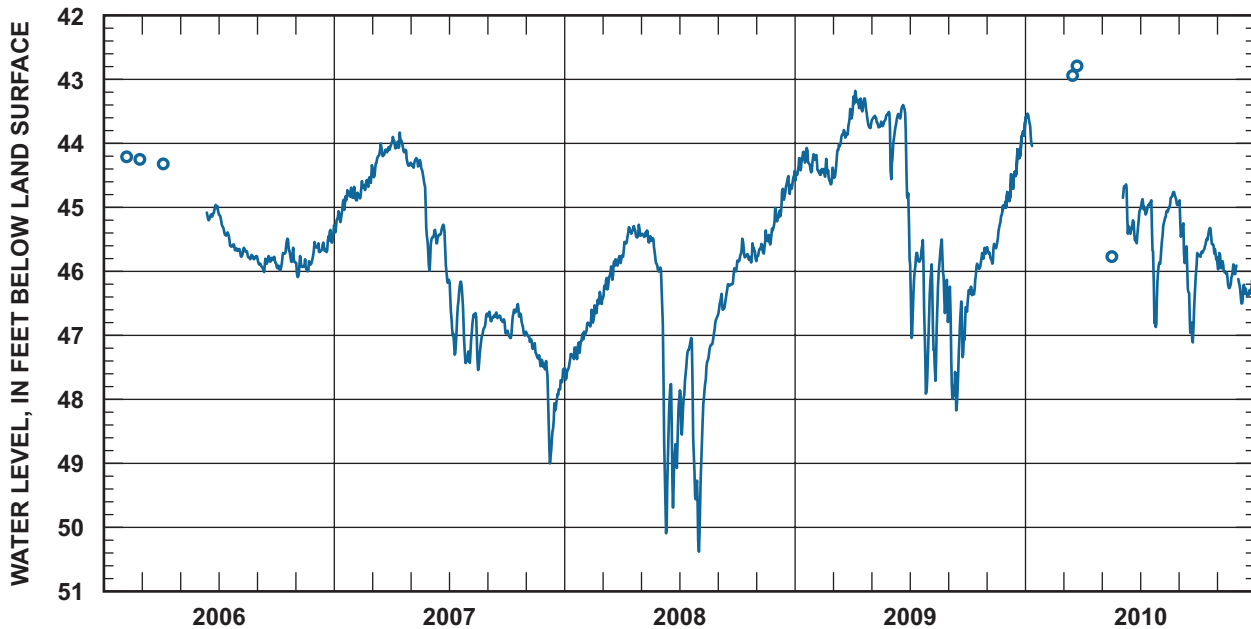
**MEASURING POINT:** Port in base of enclosure, 3.44 ft above land surface.

**PERIOD OF RECORD:** August 1999 to current year.

**EXTREMES:** Highest water level: 41.11 ft below land surface, March 28, 2000.

Lowest water level: 50.38 ft below land surface, August 1, 2008.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	--	--	--	--	44.96*	45.06	45.63	45.76	45.49	45.66	45.35	--
MEAN	--	--	--	--	--	45.09*	45.43	45.73	45.86	45.78	45.90	45.58	--
LOW	--	--	--	--	--	45.20*	45.67	45.81	46.01	45.99	46.09	45.70	--
<b>2007</b>													
HIGH	44.69	44.53	44.00	43.83	44.23	45.27	46.13	46.65	46.63	46.51	46.94	47.40	43.83 (Apr 15)
MEAN	45.00	44.71	44.21	44.07	44.58	45.55	46.75	47.02	46.73	46.80	47.23	48.03	45.89
LOW	45.39	44.89	44.53	44.35	45.89	46.18	47.43	47.54	46.97	47.04	47.49	49.00	49.00 (Dec 9)
<b>2008</b>													
HIGH	46.97	46.32	45.76	45.27	45.36	45.94	47.04	46.69	45.93	45.49	45.01	44.43	44.43 (Dec 31)
MEAN	47.31	46.70	46.03	45.45	45.59	48.52	48.14	47.72	46.30	45.74	45.52	44.81	46.49
LOW	47.69	47.00	46.42	45.77	46.00	50.09	50.20	50.38	46.66	45.86	45.77	45.22	50.38 (Aug 1)
<b>2009</b>													
HIGH	44.07	44.18	43.46	43.18	43.51	43.40	45.51	45.50	46.24	45.63	44.91	43.69	43.18 (Apr 6)
MEAN	44.30	44.43	43.99	43.44	43.64	43.92	46.35	46.41	47.20	46.03	45.45	44.39	44.96
LOW	44.58	44.64	44.54	43.76	43.78	45.27	47.91	47.71	48.17	46.50	45.88	45.00	48.17 (Sep 13)
<b>2010</b>													
HIGH	--	--	--	--	--	44.64	44.87	44.76	44.89	45.32	45.71	45.91	--
MEAN	--	--	--	--	--	45.18	45.46	45.11	46.01	45.61	46.00	46.29	--
LOW	--	--	--	--	--	45.56	46.87	45.88	47.11	45.81	46.26	46.50	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**RICHLAND COUNTY**

**WELL NUMBER:** RIC-0585

**LATITUDE:** 33° 56' 56"

**GRID NUMBER:** 29P-t4

**LONGITUDE:** 80° 50' 27"

**LOCATION:** Columbia, 6 miles east-southeast (Horrel Hill Elementary School).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 403 ft. Screened from 363 to 393 ft.

**LAND SURFACE ELEVATION:** 328.04 ft above National Geodetic Vertical Datum of 1929.

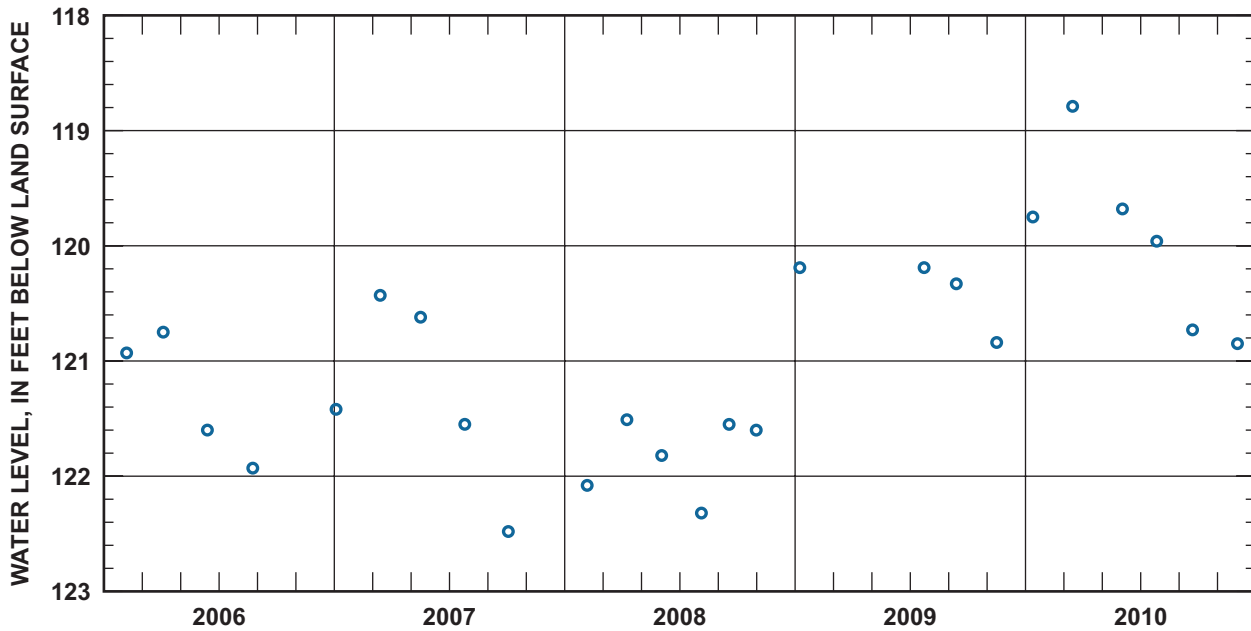
**MEASURING POINT:** Top of 2-inch casing, 4.50 ft above land surface.

**PERIOD OF RECORD:** September 1997 to current year.

**EXTREMES:** Highest water level: 115.45 ft below land surface, May 8, 1998.

Lowest water level: 124.95 ft below land surface, September 8, 2002.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



**SUMTER COUNTY**

**WELL NUMBER:** SUM-0488

**LATITUDE:** 33° 52' 27"

**GRID NUMBER:** 24Q-11

**LONGITUDE:** 80° 26' 16"

**LOCATION:** Sumter, 3.5 miles southwest (Manchester State Forest).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 546 ft. Screened from 511 to 541 ft.

**LAND SURFACE ELEVATION:** 183 ft (map estimate) above National Geodetic Vertical Datum of 1929.

**MEASURING POINT:** Top of sanitary seal, 2.00 ft above land surface.

**PERIOD OF RECORD:** March 2009 to current year.

**EXTREMES:** Highest water level: 61.98 ft below land surface, February 23, 2010.

Lowest water level: 67.14 ft below land surface, October 4, 2010.

**REMARKS:**



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2009</b>	HIGH	--	--	--	62.42	63.07	63.26	64.03	65.04	65.10	64.68	63.27	--	
	MEAN	--	--	--	62.92	63.33	63.48	64.55	65.32	65.27	65.58	65.03	64.13	
	LOW	--	--	--	63.37	63.59	63.99	65.39	65.71	65.74	66.14	65.42	65.04	
<b>2010</b>	HIGH	62.46	61.98	62.19	62.72	--	--	65.78	65.63	66.08	66.38	65.62	65.12	61.98 (Feb 23)
	MEAN	62.81	62.34	62.54	62.97	--	--	66.03	65.95	66.34	66.71	66.12	65.40	64.72
	LOW	63.34	62.61	62.86	63.47	--	--	66.42	66.42	66.68	67.14	66.72	65.85	67.14 (Oct 4)

**SUMTER COUNTY**

**WELL NUMBER:** SUM-0492

**LATITUDE:** 33° 56' 44"

**GRID NUMBER:** 19P-q3

**LONGITUDE:** 79° 58' 47"

**LOCATION:** Olanta, 2.5 miles west-northwest (Woods Bay State Park).

**AQUIFER:** Middendorf (McQueen Branch).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 522 ft. Screened from 502 to 517 ft.

**LAND SURFACE ELEVATION:** 125 ft (map estimate) above National Geodetic Vertical Datum of 1929.

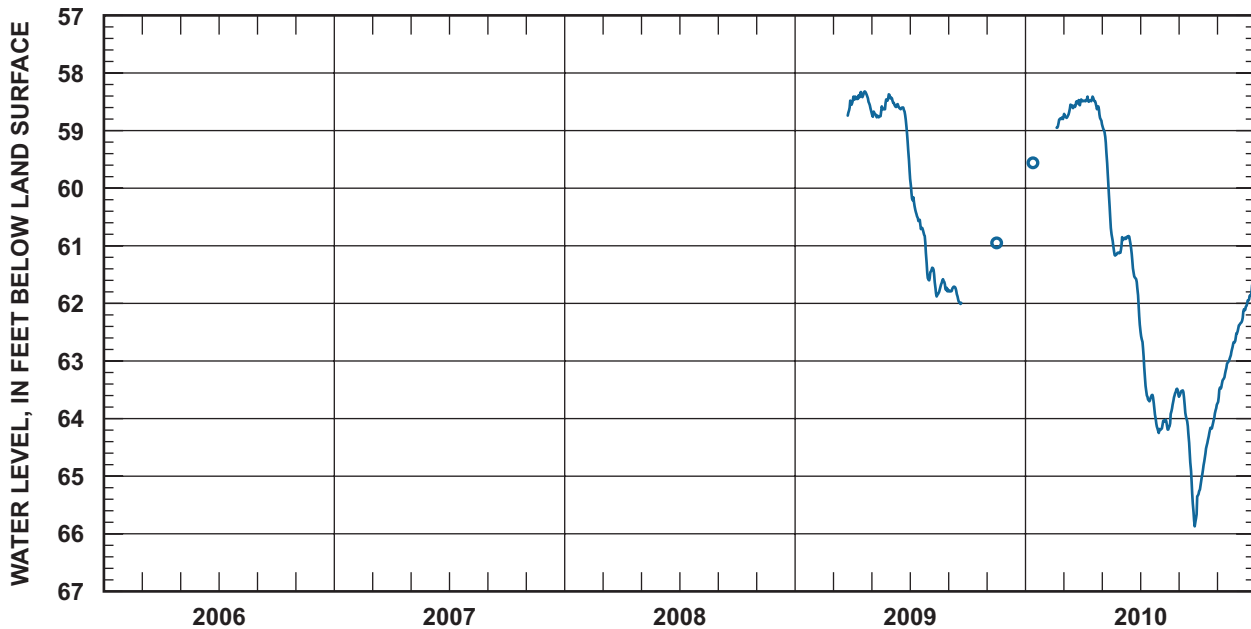
**MEASURING POINT:** Top of sanitary seal, 2.10 ft above land surface.

**PERIOD OF RECORD:** March 2009 to current year.

**EXTREMES:** Highest water level: 58.32 ft below land surface, April 21, 2009.

Lowest water level: 65.87 ft below land surface, September 26, 2010.

**REMARKS:**



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b>	HIGH	--	--	58.32	58.37	58.43	59.70	61.38	61.71*	--	--	--	--
	MEAN	--	--	58.43	58.63	58.69	60.60	61.65	61.83*	--	--	--	--
	LOW	--	--	58.61	58.77	59.52	61.59	61.88	62.01*	--	--	--	--
<b>2010</b>	HIGH	--	58.46	58.41	58.83	60.83	62.37	63.48	63.51	63.76	62.59	61.65	58.41 (Apr 9)†
	MEAN	--	58.61	58.53	60.27	61.21	63.49	63.92	64.48	64.51	63.12	62.07	62.02
	LOW	--	58.80	58.81	61.17	62.22	64.25	64.20	65.87	65.33	63.73	62.52	65.87 (Sep 26)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

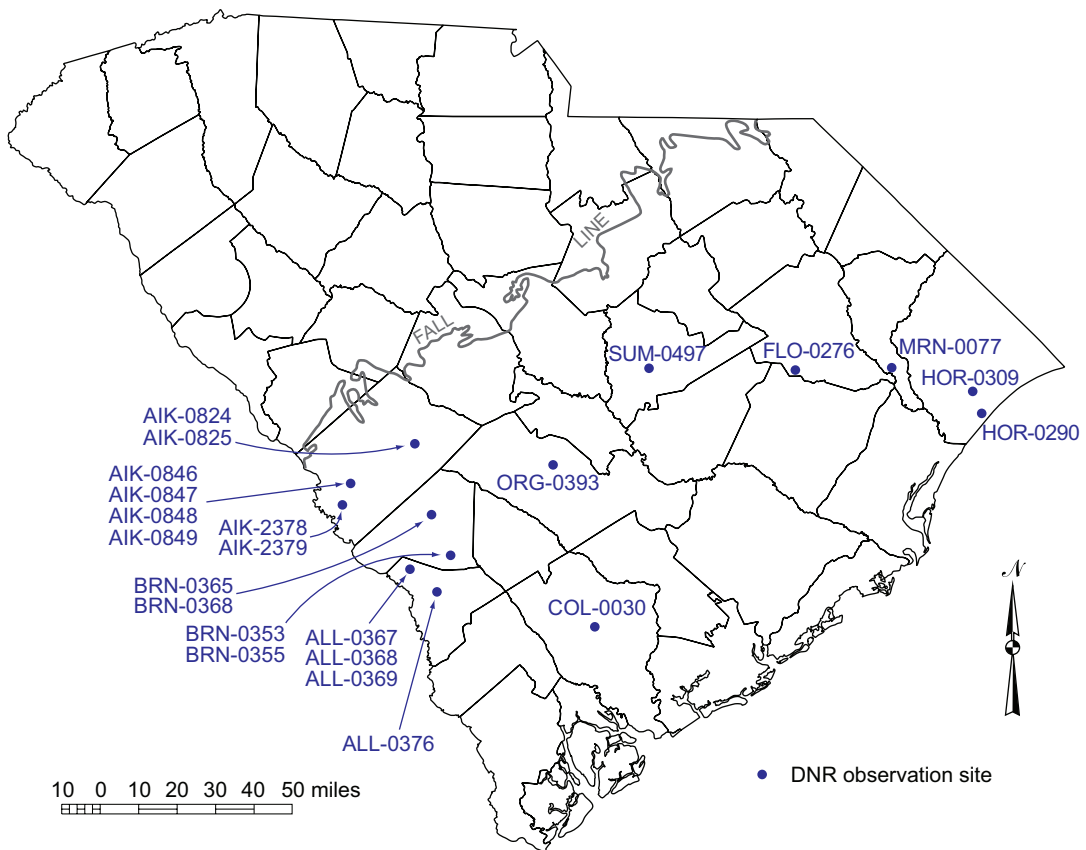
† This value occurred on more than one day in that year. The date of the first occurrence is reported.





## APPENDIX E

### Ground-water levels in the Black Creek aquifer, 2006–2010



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0824

**LATITUDE:** 33° 26' 16"

**GRID NUMBER:** 40V-s5

**LONGITUDE:** 81° 46' 13"

**LOCATION:** New Ellenton, 4 miles west-southwest (County Road 146).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 365 ft. Screened from 350 to 360 ft.

**LAND SURFACE ELEVATION:** 418.6 ft above National Geodetic Vertical Datum of 1929.

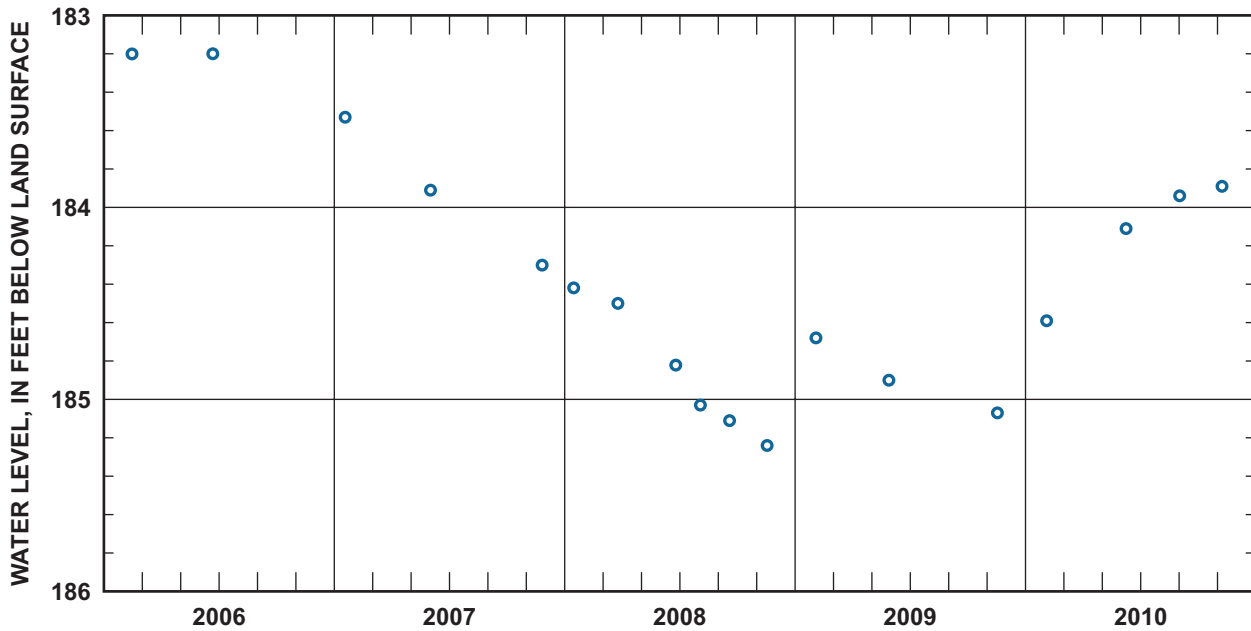
**MEASURING POINT:** Port in sanitary seal, 2.60 ft above land surface.

**PERIOD OF RECORD:** April 1993 to current year.

**EXTREMES:** Highest water level: 176.30 ft below land surface, July 20, 1996.

Lowest water level: 185.24 ft below land surface, November 17, 2008.

**REMARKS:** Well-cluster site C-2. One of five wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0825

**LATITUDE:** 33° 26' 16"

**GRID NUMBER:** 40V-s6

**LONGITUDE:** 81° 46' 13"

**LOCATION:** New Ellenton, 4 miles west-southwest (County Road 146).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 231 ft. Screened from 216 to 226 ft.

**LAND SURFACE ELEVATION:** 418.8 ft above National Geodetic Vertical Datum of 1929.

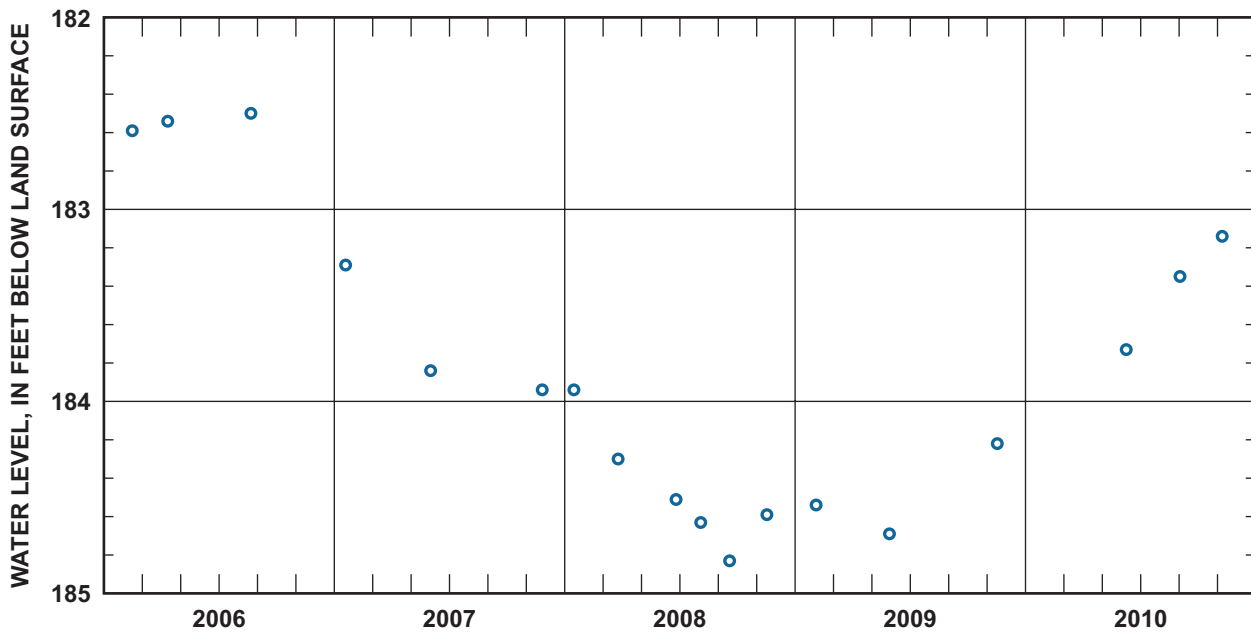
**MEASURING POINT:** Port in sanitary seal, 1.66 ft above land surface.

**PERIOD OF RECORD:** October 1989 to current year.

**EXTREMES:** Highest water level: 175.58 ft below land surface, February 2, 1999.

Lowest water level: 184.83 ft below land surface, November 17, 2008.

**REMARKS:** Well-cluster site C-2. One of five wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0846

**LATITUDE:** 33° 32' 32"

**GRID NUMBER:** 36U-03

**LONGITUDE:** 81° 29' 08"

**LOCATION:** Windsor, 4 miles north-northeast (Aiken State Park).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 255 ft. Screened from 240 to 250 ft.

**LAND SURFACE ELEVATION:** 297.8 ft above National Geodetic Vertical Datum of 1929.

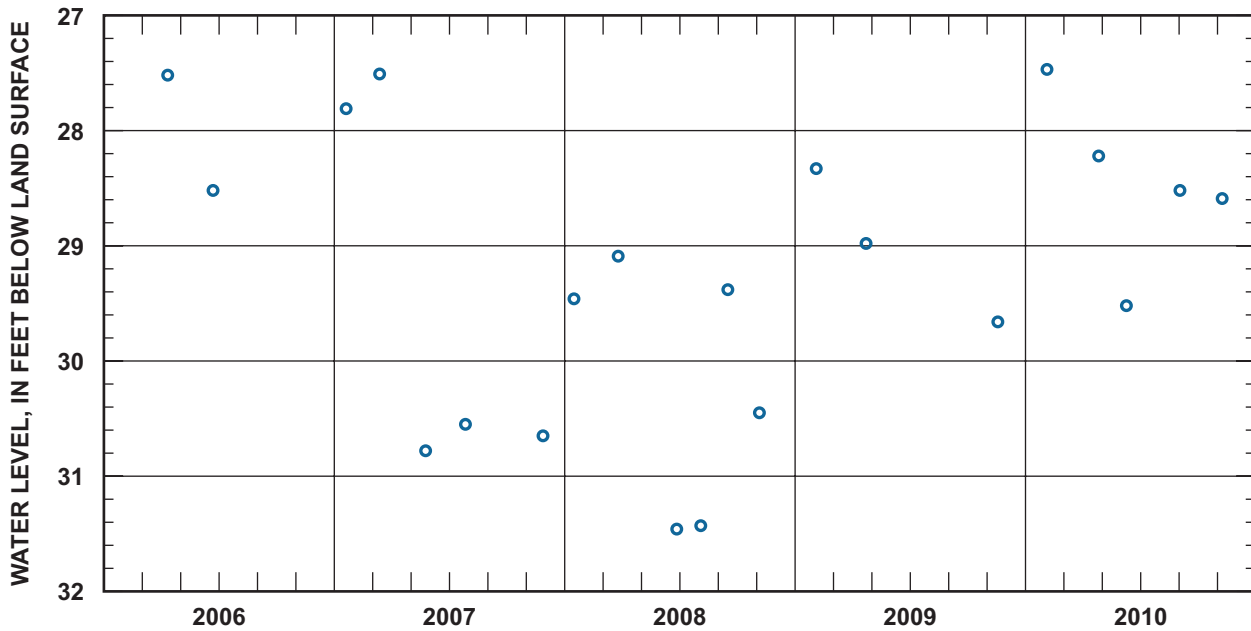
**MEASURING POINT:** Port in sanitary seal, 3.02 ft above land surface.

**PERIOD OF RECORD:** April 1993 to current year.

**EXTREMES:** Highest water level: 20.79 ft below land surface, March 19, 1996.

Lowest water level: 31.46 ft below land surface, June 26, 2008.

**REMARKS:** Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0847

**LATITUDE:** 33° 32' 33"

**GRID NUMBER:** 36U-04

**LONGITUDE:** 81° 29' 08"

**LOCATION:** Windsor, 4 miles north-northeast (Aiken State Park).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 193 ft. Screened from 178 to 188 ft.

**LAND SURFACE ELEVATION:** 299.0 ft above National Geodetic Vertical Datum of 1929.

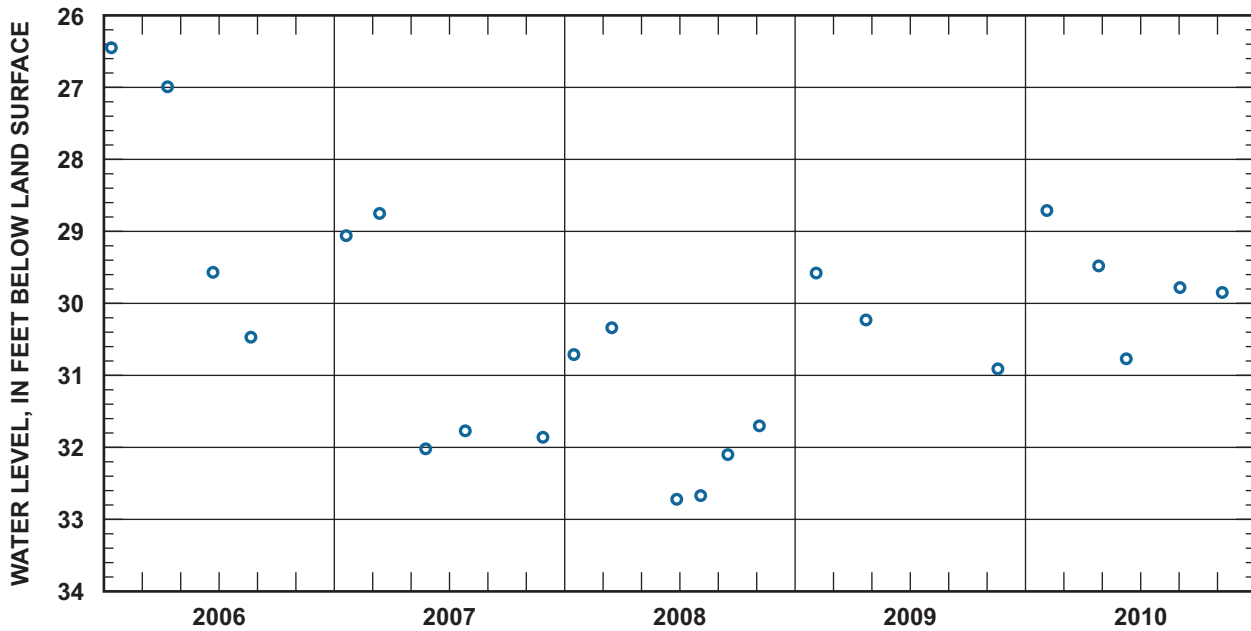
**MEASURING POINT:** Port in sanitary seal, 2.79 ft above land surface.

**PERIOD OF RECORD:** April 1993 to current year.

**EXTREMES:** Highest water level: 22.12 ft below land surface, March 19, 1996.

Lowest water level: 32.72 ft below land surface, June 26, 2008.

**REMARKS:** Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



AIKEN COUNTY

WELL NUMBER: AIK-0848

LATITUDE: 33° 32' 32"

GRID NUMBER: 36U-05

LONGITUDE: 81° 29' 07"

LOCATION: Windsor, 4 miles north-northeast (Aiken State Park).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 131 ft. Screened from 116 to 126 ft.

LAND SURFACE ELEVATION: 299.7 ft above National Geodetic Vertical Datum of 1929.

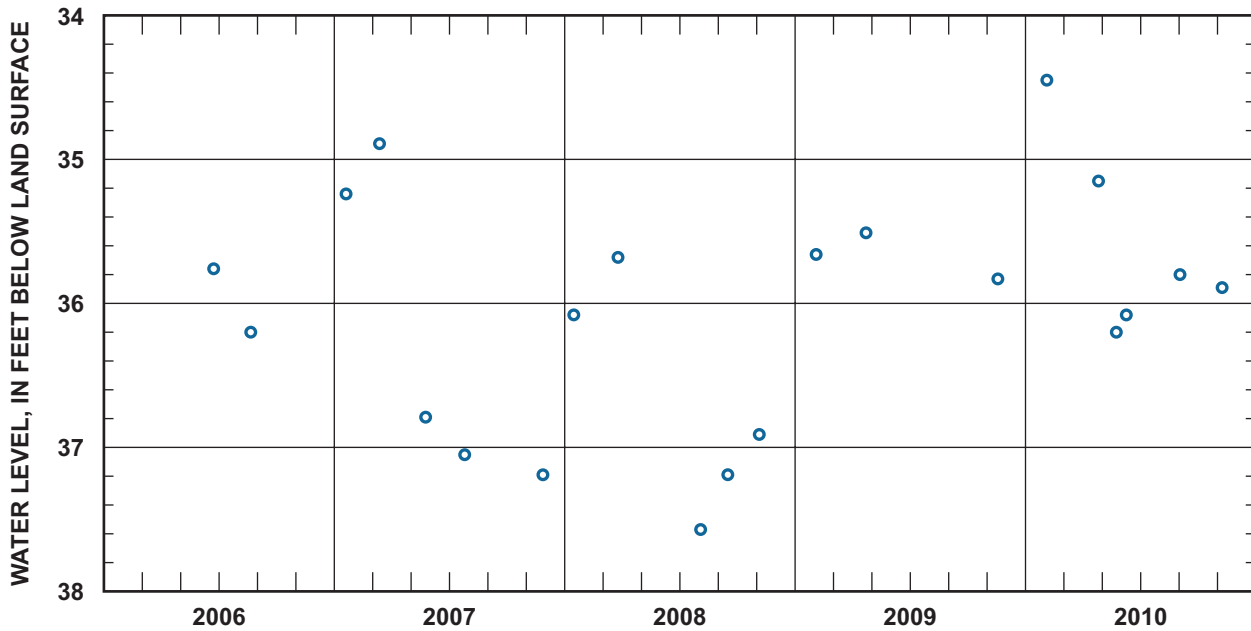
MEASURING POINT: Port in sanitary seal, 3.05 ft above land surface.

PERIOD OF RECORD: April 1993 to current year.

EXTREMES: Highest water level: 30.87 ft below land surface, March 2, 1994.

Lowest water level: 37.57 ft below land surface, August 4, 2008.

REMARKS: Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



**AIKEN COUNTY**

**WELL NUMBER:** AIK-0849

**GRID NUMBER:** 36U-06

**LOCATION:** Windsor, 4 miles north-northeast (Aiken State Park).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 97 ft. Screened from 82 to 92 ft.

**LAND SURFACE ELEVATION:** 301.6 ft above National Geodetic Vertical Datum of 1929.

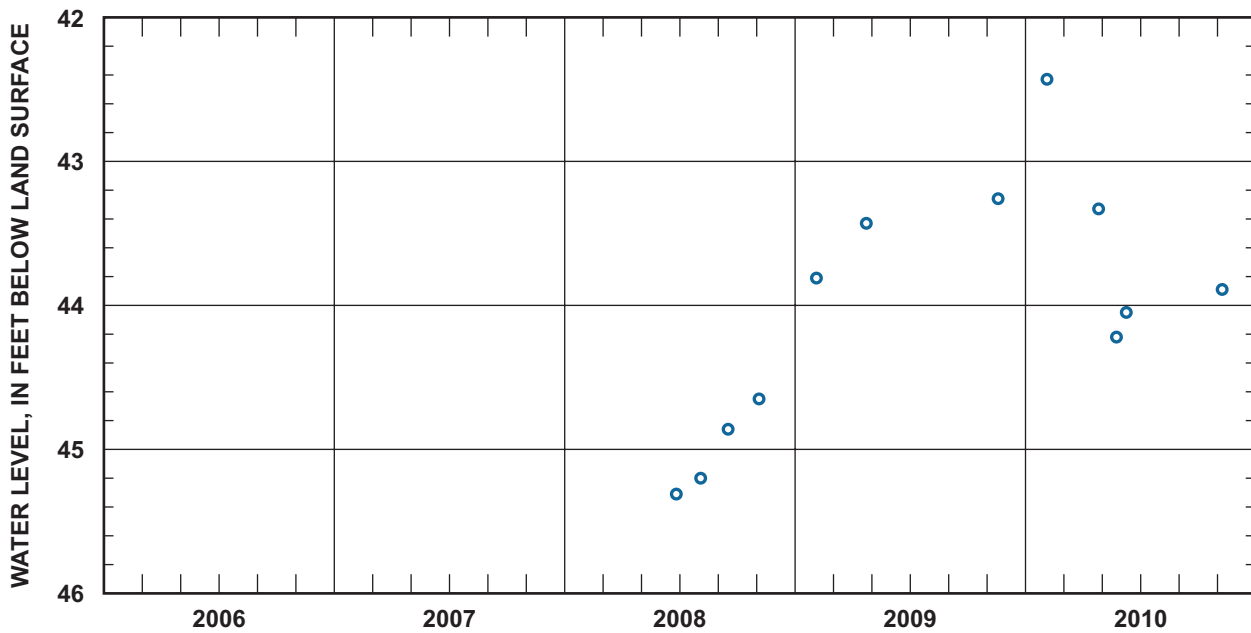
**MEASURING POINT:** Port in sanitary seal, 3.05 ft above land surface.

**PERIOD OF RECORD:** April 1993 to current year.

**EXTREMES:** Highest water level: 39.59 ft below land surface, March 12, 1998.

Lowest water level: 45.31 ft below land surface, June 26, 2008.

**REMARKS:** Well-cluster site C-3. One of six wells drilled on site for Department of Energy and DNR project.



AIKEN COUNTY

WELL NUMBER: AIK-2378

LATITUDE: 33° 21' 12"

GRID NUMBER: 40W-q2

LONGITUDE: 81° 48' 32"

LOCATION: Jackson, 1 mile northwest (S.C. Highway 125).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 185 ft. Screened from 170 to 180 ft.

LAND SURFACE ELEVATION: 220.25 ft above National Geodetic Vertical Datum of 1929.

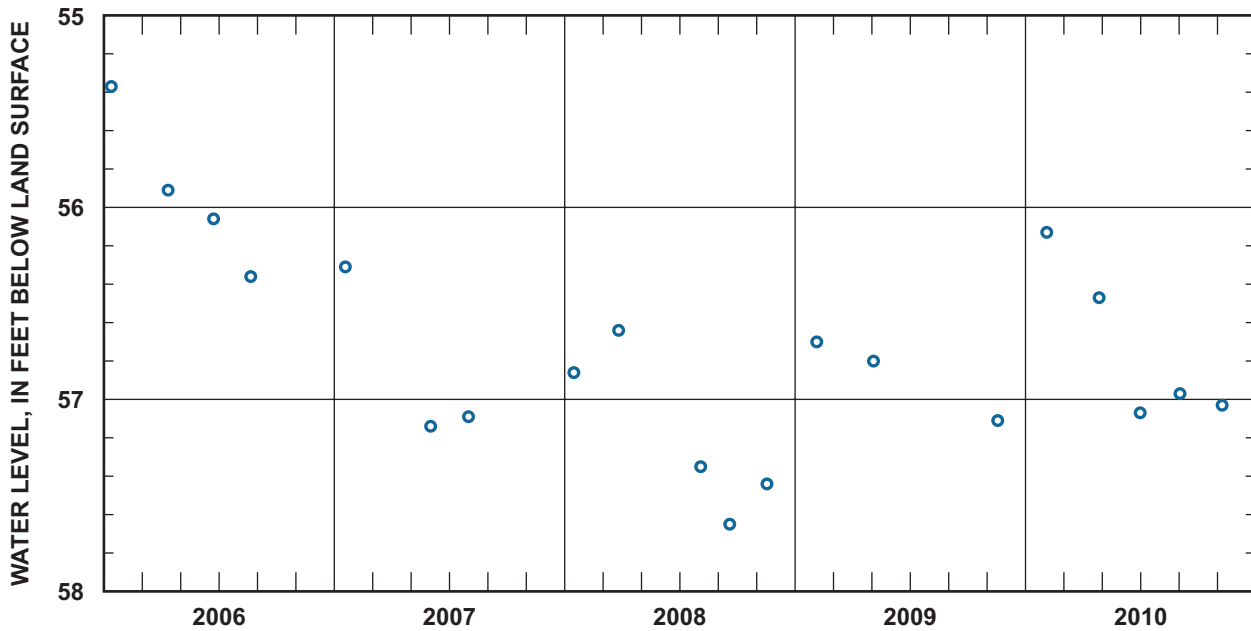
MEASURING POINT: Port in sanitary seal, 1.54 ft above land surface.

PERIOD OF RECORD: February 1996 to current year.

EXTREMES: Highest water level: 52.24 ft below land surface, March 19, 1996.

Lowest water level: 57.65 ft below land surface, September 19, 2008.

REMARKS: Well-cluster site C-1. One of four wells drilled on site for Department of Energy and DNR project.





AIKEN COUNTY

WELL NUMBER: AIK-2379

LATITUDE: 33° 21' 12"

GRID NUMBER: 40W-q3

LONGITUDE: 81° 48' 32"

LOCATION: Jackson, 1 mile northwest (S.C. Highway 125).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 266 ft. Screened from 251 to 261 ft.

LAND SURFACE ELEVATION: 223.68 ft above National Geodetic Vertical Datum of 1929.

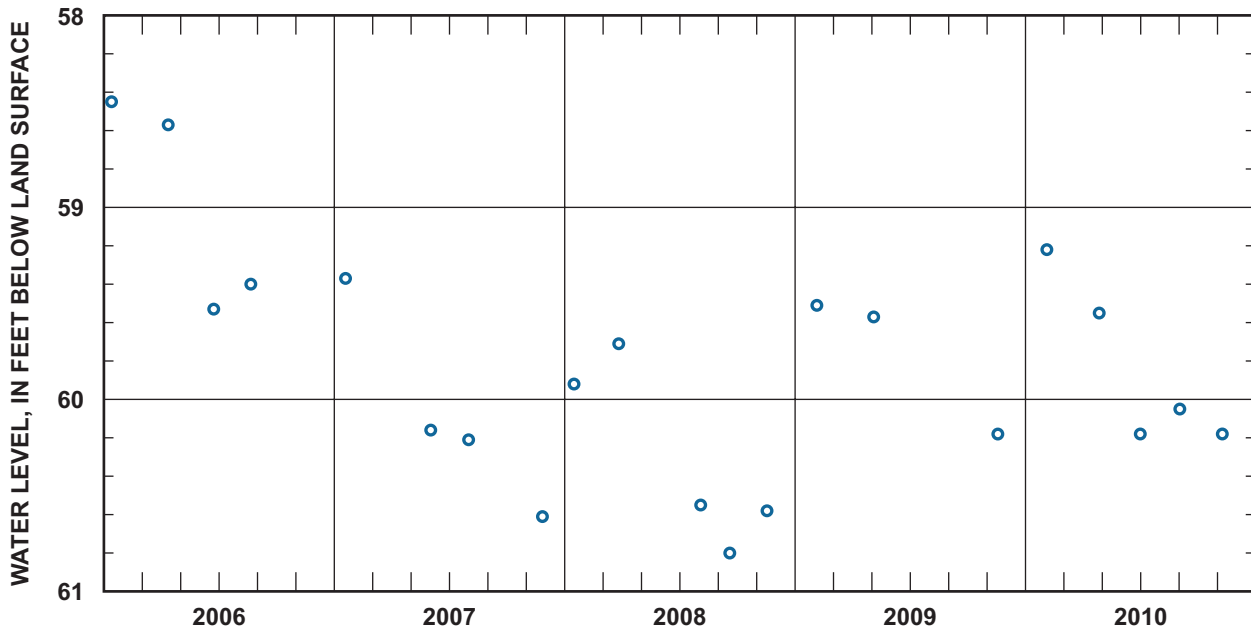
MEASURING POINT: Port in sanitary seal, 2.43 ft above land surface.

PERIOD OF RECORD: April 1996 to current year.

EXTREMES: Highest water level: 55.07 ft below land surface, April 2, 1996.

Lowest water level: 60.80 ft below land surface, September 19, 2008.

REMARKS: Well-cluster site C-1. One of four wells drilled on site for Department of Energy and DNR project.



**ALLENDALE COUNTY**

**WELL NUMBER:** ALL-0367

**LATITUDE:** 33° 06' 48"

**GRID NUMBER:** 37Z-t8

**LONGITUDE:** 81° 30' 21"

**LOCATION:** Millet, 3 miles northeast (County Road 24).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 566 ft. Screened from 551 to 561 ft.

**LAND SURFACE ELEVATION:** 245.74 ft above National Geodetic Vertical Datum of 1929.

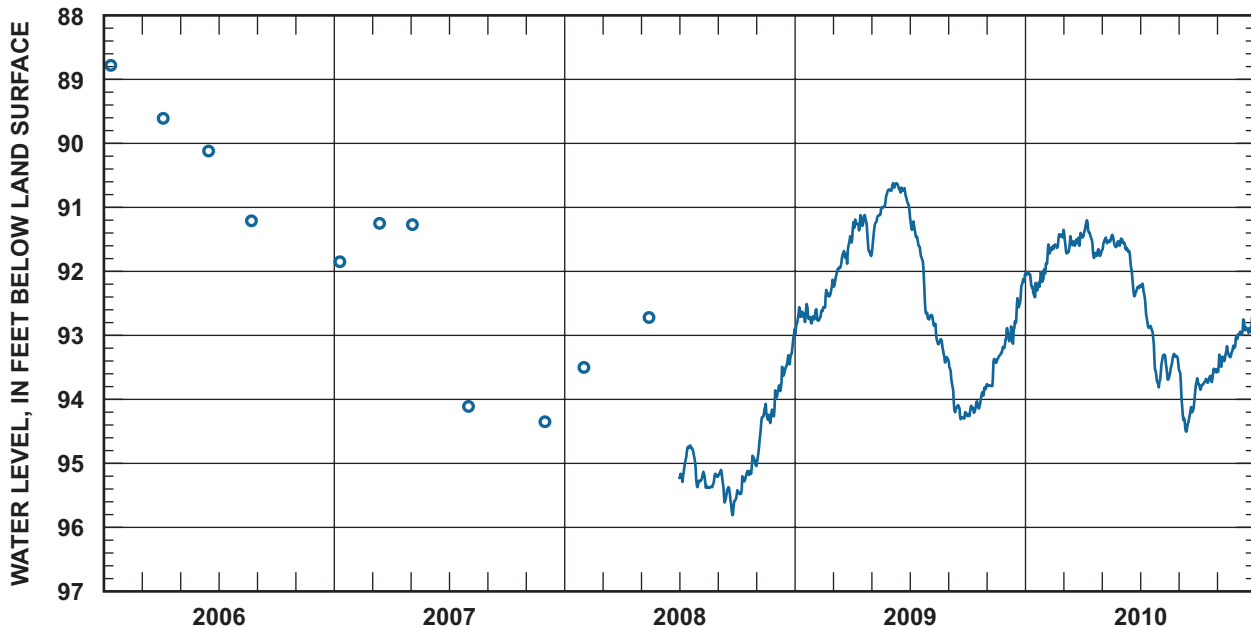
**MEASURING POINT:** Top of gray PVC instrument support, 2.59 ft above land surface.

**PERIOD OF RECORD:** November 1995 to current year.

**EXTREMES:** Highest water level: 81.75 ft below land surface, May 8, 1998.

Lowest water level: 95.81 ft below land surface, September 23, 2008.

**REMARKS:** Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	--	--	--	--	94.72	95.13	95.10	94.88	93.86	92.90	--	
	MEAN	--	--	--	--	--	95.00	95.28	95.45	95.20	94.35	93.52	--	
	LOW	--	--	--	--	--	95.37	95.38	95.81	95.48	94.98	93.97	--	
<b>2009</b>	HIGH	92.51	92.23	91.45	91.12	90.72	90.62	91.07	92.68	93.41	93.77	93.06	92.05	90.62 (Jun 5)†
	MEAN	92.71	92.53	91.85	91.32	91.10	90.74	91.77	93.05	94.05	94.06	93.46	92.67	92.44
	LOW	92.97	92.77	92.24	91.74	91.76	90.99	92.75	93.42	94.31	94.26	93.79	93.13	94.31 (Sep 20)
<b>2010</b>	HIGH	91.97	91.42	91.35	91.20	91.43	91.49	92.19	93.29	93.54	93.52	93.04	92.59	91.20 (Apr 8)
	MEAN	92.16	91.62	91.55	91.54	91.55	91.91	92.89	93.45	94.10	93.69	93.31	92.88	92.55
	LOW	92.40	92.03	91.72	91.79	91.69	92.39	93.81	93.73	94.50	93.85	93.57	93.06	94.50 (Sep 12)†

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

ALLEDALE COUNTY

WELL NUMBER: ALL-0368

LATITUDE: 33° 06' 49"

GRID NUMBER: 37Z-t9

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 691 ft. Screened from 676 to 686 ft.

LAND SURFACE ELEVATION: 246.59 ft above National Geodetic Vertical Datum of 1929.

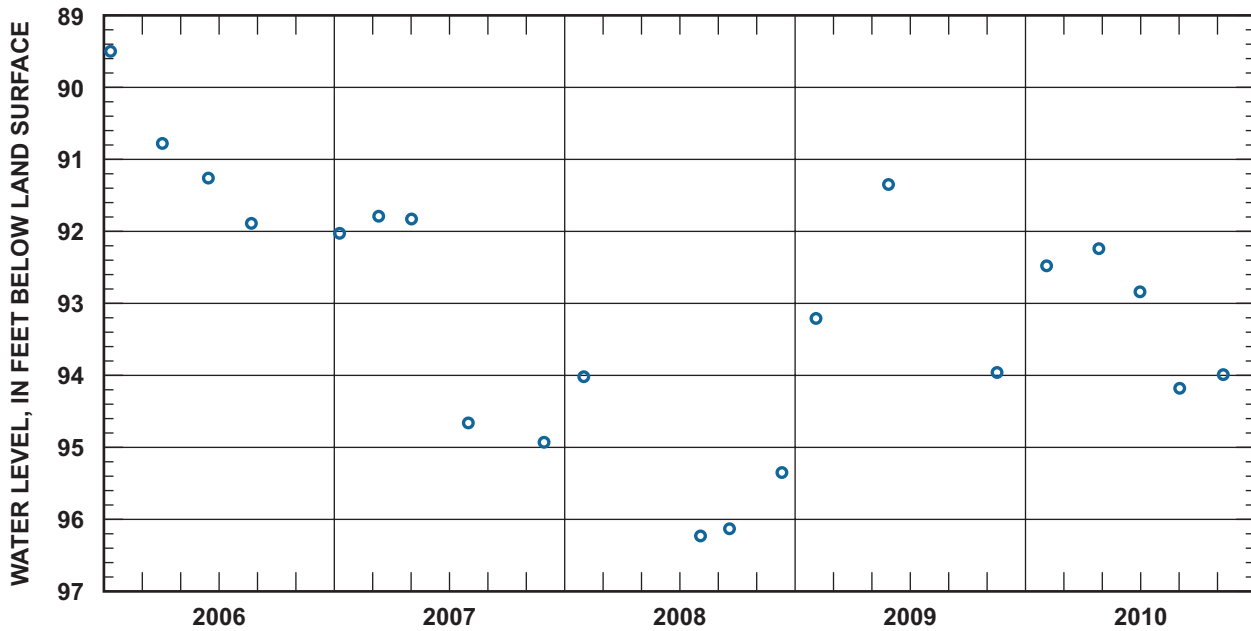
MEASURING POINT: Port in sanitary seal, 2.46 ft above land surface.

PERIOD OF RECORD: January 2006 to current year.

EXTREMES: Highest water level: 89.50 ft below land surface datum, January 12, 2006.

Lowest water level: 96.23 ft below land surface datum, August 4, 2008.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.



ALLENDALE COUNTY

WELL NUMBER: ALL-0369

LATITUDE: 33° 06' 47"

GRID NUMBER: 37Z-t10

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 800 ft. Screened from 785 to 795 ft.

LAND SURFACE ELEVATION: 242.12 ft above National Geodetic Vertical Datum of 1929.

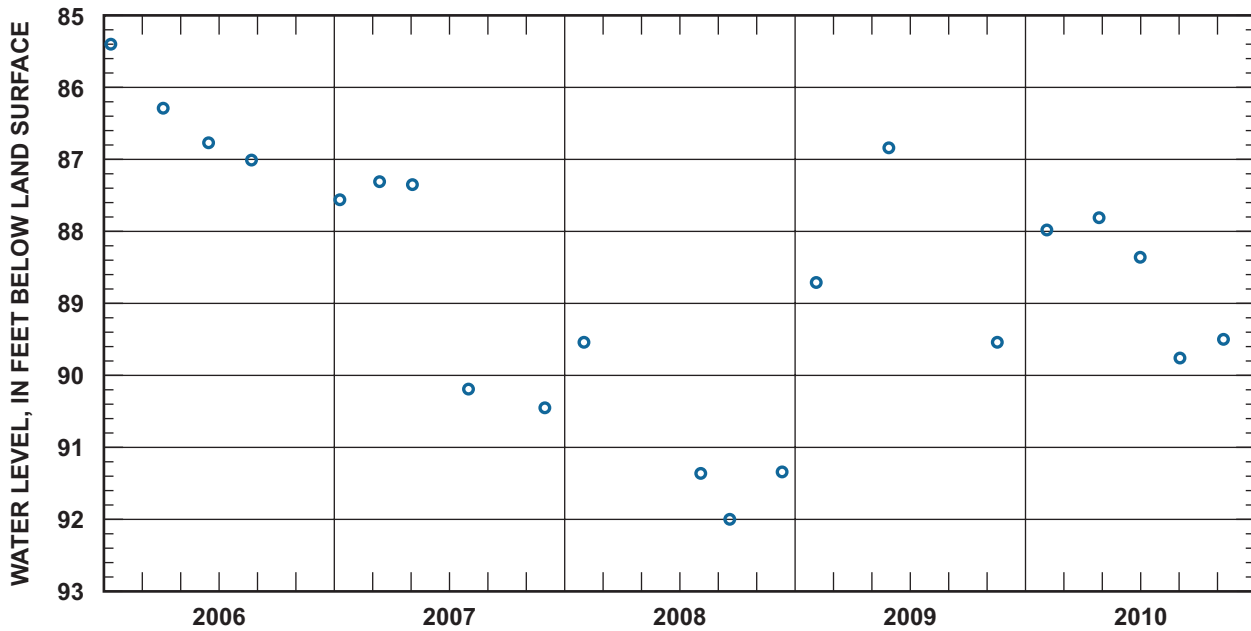
MEASURING POINT: Port in sanitary seal, 2.42 ft above land surface.

PERIOD OF RECORD: January 2006 to current year.

EXTREMES: Highest water level: 85.40 ft below land surface, January 12, 2006.

Lowest water level: 92.00 ft below land surface, September 19, 2008.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.



ALLENDALE COUNTY

WELL NUMBER: ALL-0376

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q9

LONGITUDE: 81° 23' 05"

LOCATION: Allendale, 3.5 miles west (County Road 52).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 994 ft. Screened from 784 to 989 ft.

LAND SURFACE ELEVATION: 282.23 ft above National Geodetic Vertical Datum of 1929.

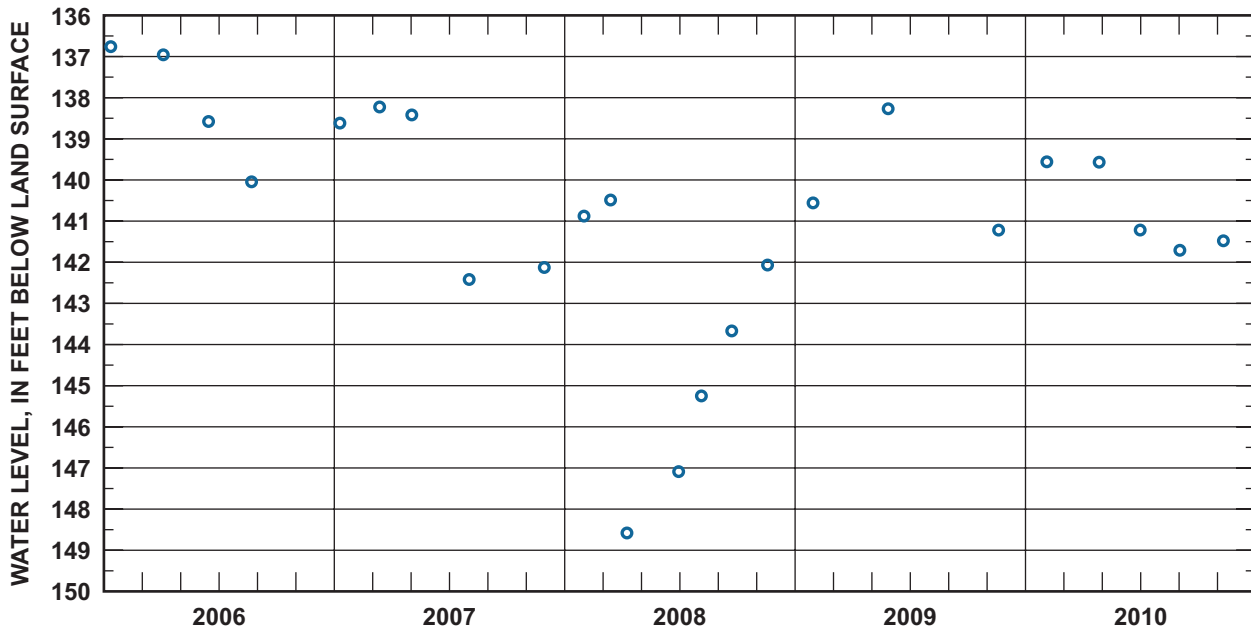
MEASURING POINT: Port in sanitary seal, 3.33 ft above land surface.

PERIOD OF RECORD: August 1996 to current year.

EXTREMES: Highest water level: 129.61 ft below land surface, May 8, 1998.

Lowest water level: 148.58 ft below land surface, April 8, 2008.

REMARKS: Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project.



**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0353

**LATITUDE:** 33° 10' 44"

**GRID NUMBER:** 34Y-x5

**LONGITUDE:** 81° 18' 51"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 588 ft. Screened from 573 to 583 ft.

**LAND SURFACE ELEVATION:** 207.7 ft above National Geodetic Vertical Datum of 1929.

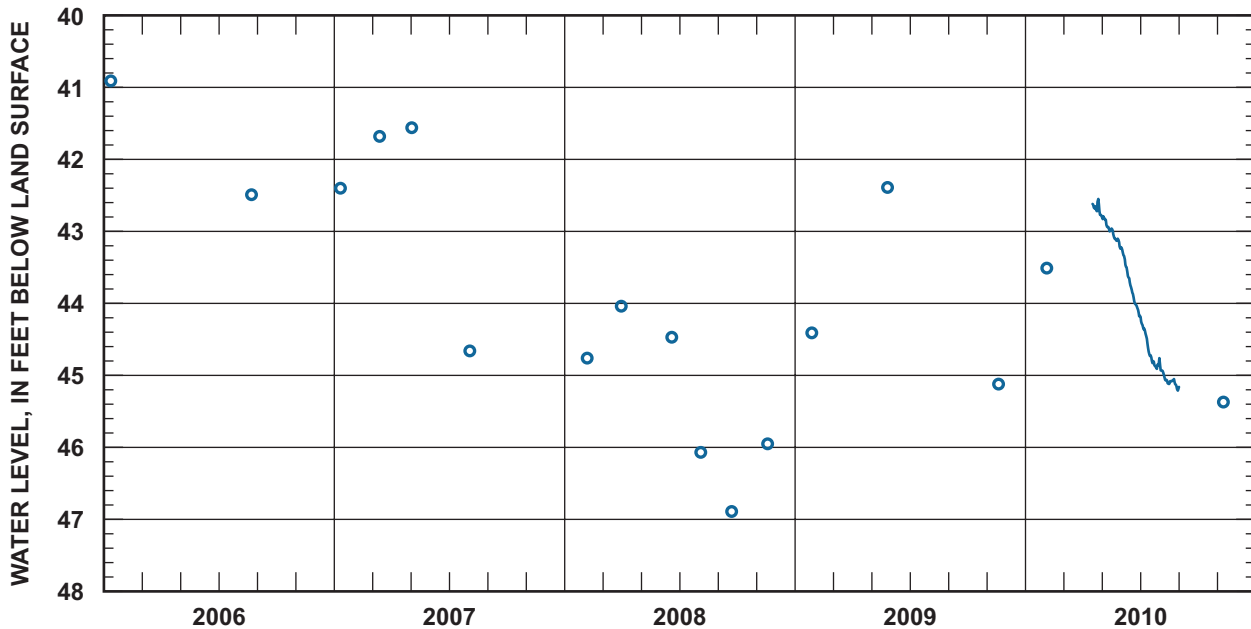
**MEASURING POINT:** Port in sanitary seal, 2.61 ft above land surface.

**PERIOD OF RECORD:** October 1989 to current year.

**EXTREMES:** Highest water level: 31.48 ft below land surface, March 26, 1994.

Lowest water level: 46.89 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2010</b> HIGH	--	--	--	--	42.78	43.22	44.17	44.76	--	--	--	--	--
<b>2010</b> MEAN	--	--	--	--	42.99	43.71	44.61	45.05	--	--	--	--	--
<b>2010</b> LOW	--	--	--	--	43.24	44.18	44.91	45.21	--	--	--	--	--

**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0355

**LATITUDE:** 33° 10' 44"

**GRID NUMBER:** 34Y-x7

**LONGITUDE:** 81° 18' 52"

**LOCATION:** Barnwell, 4 miles southeast (off S.C. Highway 300).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 701 ft. Screened from 686 to 696 ft.

**LAND SURFACE ELEVATION:** 208.0 ft above National Geodetic Vertical Datum of 1929.

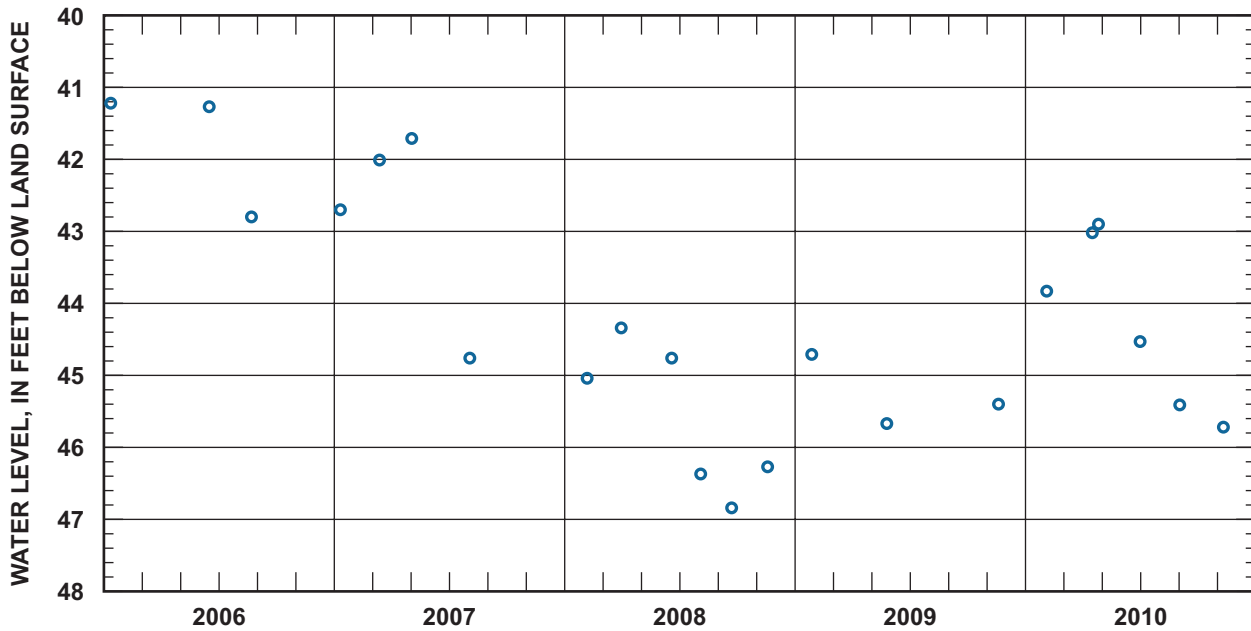
**MEASURING POINT:** Port in sanitary seal, 2.59 ft above land surface.

**PERIOD OF RECORD:** October 1989 to current year.

**EXTREMES:** Highest water level: 32.54 ft below land surface, April 21, 1993.

Lowest water level: 46.84 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



BARNWELL COUNTY

WELL NUMBER: BRN-0365

LATITUDE: 33° 19' 18"

GRID NUMBER: 35X-e5

LONGITUDE: 81° 24' 24"

LOCATION: Williston, 3.5 miles south.

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 539 ft. Screened from 524 to 534 ft.

LAND SURFACE ELEVATION: 263.5 ft above National Geodetic Vertical Datum of 1929.

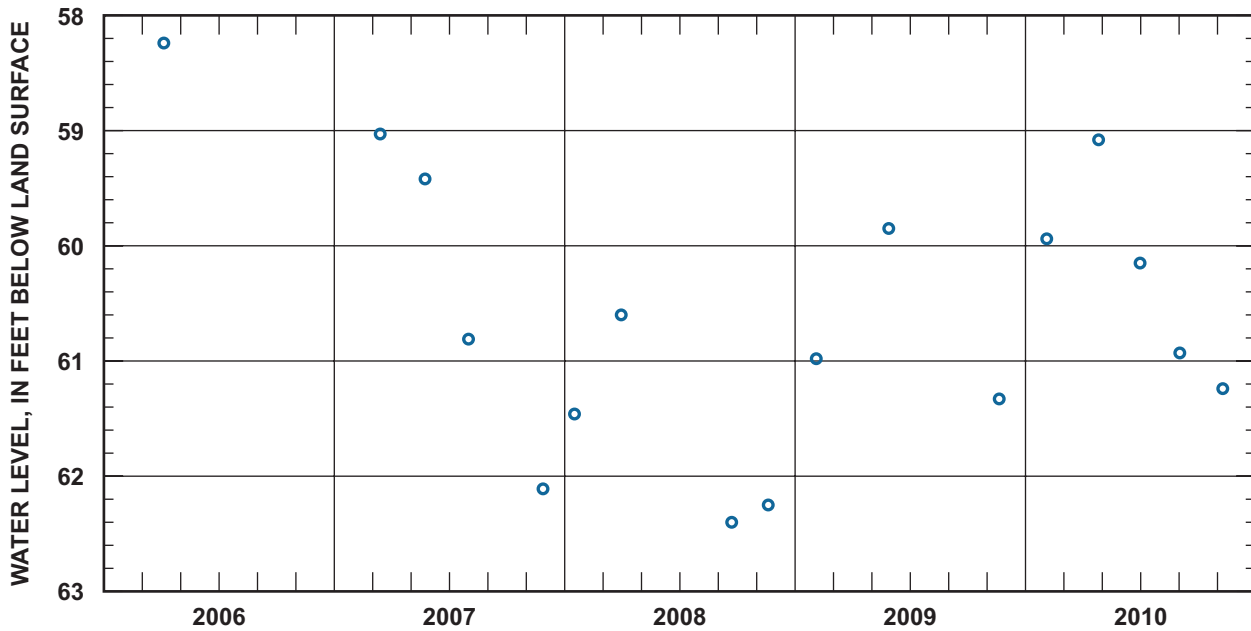
MEASURING POINT: Port in sanitary seal, 3.00 ft above land surface.

PERIOD OF RECORD: May 1993 to current year.

EXTREMES: Highest water level: 51.57 ft below land surface, May 23, 1993.

Lowest water level: 62.40 ft below land surface, September 22, 2008.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.





BARNWELL COUNTY

WELL NUMBER: BRN-0368

GRID NUMBER: 35X-e8

LOCATION: Williston, 3.5 miles south.

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 443 ft. Screened from 428 to 438 ft.

LAND SURFACE ELEVATION: 265.1 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 3.05 ft above land surface.

PERIOD OF RECORD: May 1993 to current year.

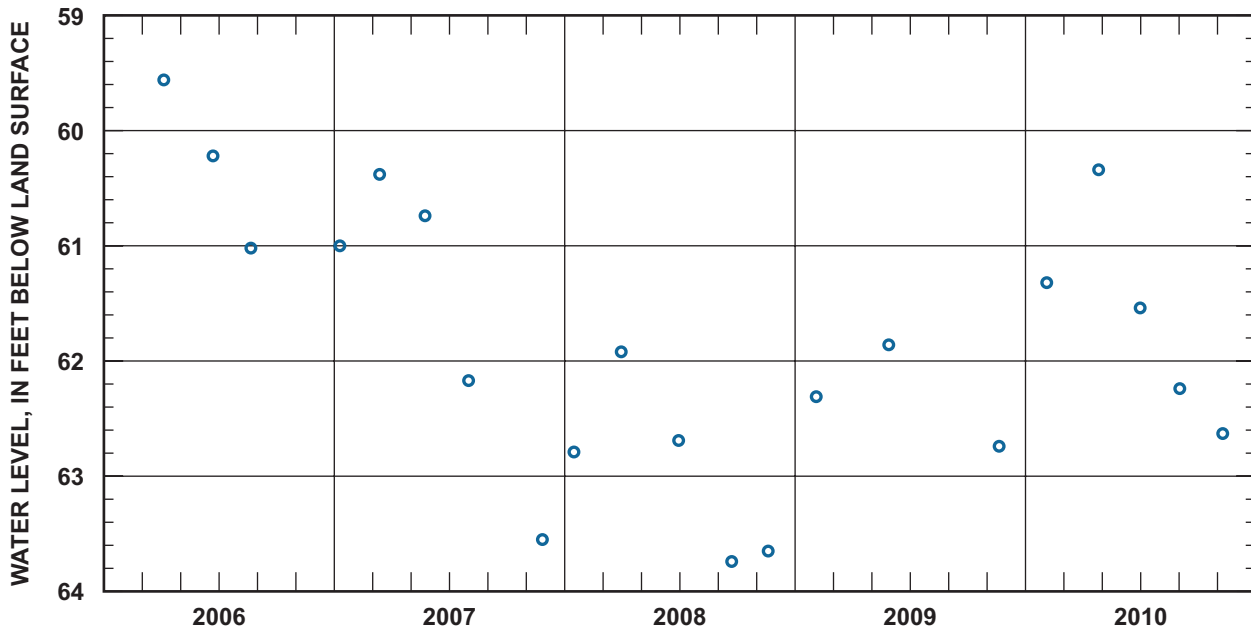
EXTREMES: Highest water level: 53.13 ft below land surface, May 21, 1993.

Lowest water level: 63.74 ft below land surface, September 22, 2008.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 19' 17"

LONGITUDE: 81° 24' 24"



**COLLETON COUNTY**

**WELL NUMBER:** COL-0030

**LATITUDE:** 32° 53' 45"

**GRID NUMBER:** 27CC-j1

**LONGITUDE:** 80° 40' 40"

**LOCATION:** Walterboro (Kline Street).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter unused public-supply well. Depth: 1,340 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 61.30 ft above National Geodetic Vertical Datum of 1929.

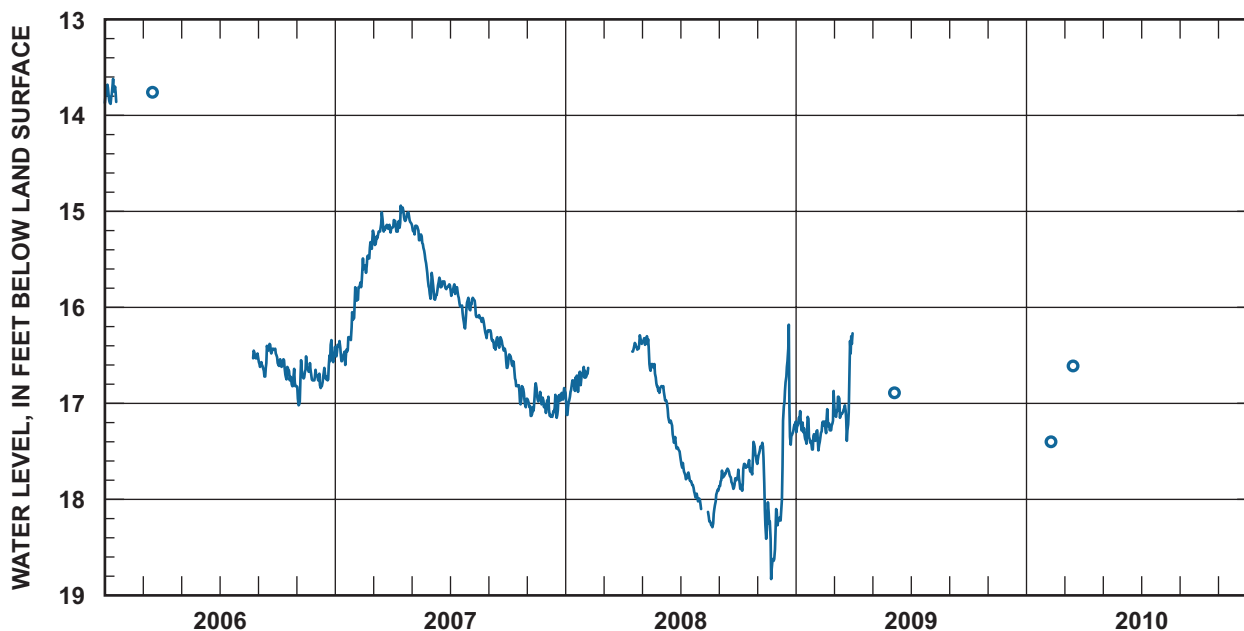
**MEASURING POINT:** Port in sanitary seal, 0.30 ft above land surface.

**PERIOD OF RECORD:** January 1996 to current year.

**EXTREMES:** Highest water level: 8.52 below land surface, May 8, 1998.

Lowest water level: 18.83 ft below land surface, November 11, 2008.

**REMARKS:**



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 13.62*	--	--	--	--	--	--	--	16.38	16.52	16.51	16.34	--
	MEAN 13.77*	--	--	--	--	--	--	--	16.52	16.67	16.73	16.66	--
	LOW 13.88*	--	--	--	--	--	--	--	16.72	16.82	17.02	16.84	--
<b>2007</b>	HIGH 16.05	15.32	15.01	14.94	15.12	15.64	15.76	15.90	16.24	16.49	16.79	16.84	14.94 (Apr 15)
	MEAN 16.39	15.64	15.20	15.09	15.35	15.79	15.93	16.09	16.37	16.76	16.98	17.02	16.05
	LOW 16.60	15.95	15.35	15.21	15.86	15.92	16.22	16.32	16.63	17.04	17.13	17.15	17.15 (Dec 18)
<b>2008</b>	HIGH 16.62	--	--	--	16.30	16.82	17.56	17.89*	17.68	17.40	17.41	16.18	--
	MEAN 16.82	--	--	--	16.58	17.18	17.81	18.10*	17.78	17.67	18.07	17.37	--
	LOW 17.12	--	--	--	16.89	17.50	18.02	18.29*	17.89	17.91	18.83	18.27	--
<b>2009</b>	HIGH 17.08	17.06	16.27	--	--	--	--	--	--	--	--	--	--
	MEAN 17.30	17.27	16.96	--	--	--	--	--	--	--	--	--	--
	LOW 17.48	17.49	17.39	--	--	--	--	--	--	--	--	--	--
<b>2010</b>	HIGH --	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN --	--	--	--	--	--	--	--	--	--	--	--	--
	LOW --	--	--	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

FLORENCE COUNTY

WELL NUMBER: FLO-0276

LATITUDE: 33° 51' 21"

GRID NUMBER: 16Q-s2

LONGITUDE: 79° 46' 00"

LOCATION: Lake City (Lake City Airport).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 250 ft. Screened from 230 to 250 ft.

LAND SURFACE ELEVATION: 79.00 ft above National Geodetic Vertical Datum of 1929.

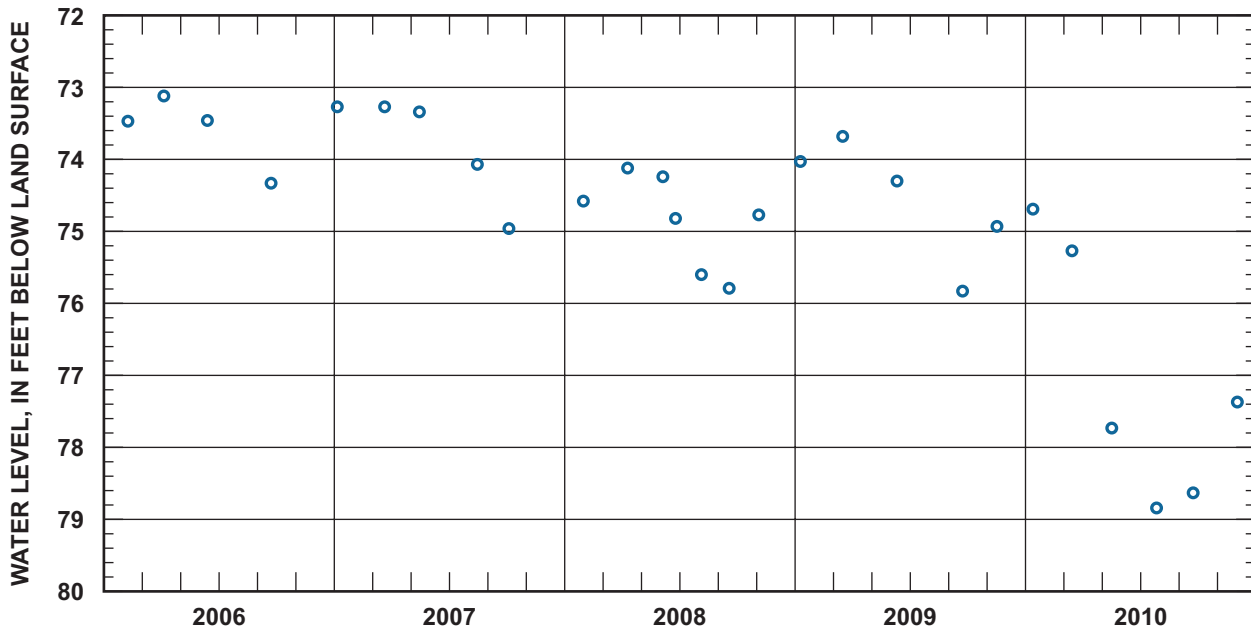
MEASURING POINT: Port in base of enclosure, 1.31 ft above land surface.

PERIOD OF RECORD: September 2000 to current year.

EXTREMES: Highest water level: 62.81 ft below land surface, March 13, 2001.

Lowest water level: 78.84 ft below land surface, July 27, 2010.

REMARKS: Drilled and cored for DNR/USGS Pee Dee region ground-water study.



**HORRY COUNTY**

**WELL NUMBER:** HOR-0290

**LATITUDE:** 33° 40' 15"

**GRID NUMBER:** 6S-v2

**LONGITUDE:** 78° 56' 21"

**LOCATION:** Myrtle Beach (southeast corner of Blizzard Street and Deville Street).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 8-inch diameter observation well. Depth: 459 ft. Screened interval unknown.

**LAND SURFACE ELEVATION:** 20 ft (map estimate) above National Geodetic Vertical Datum of 1929.

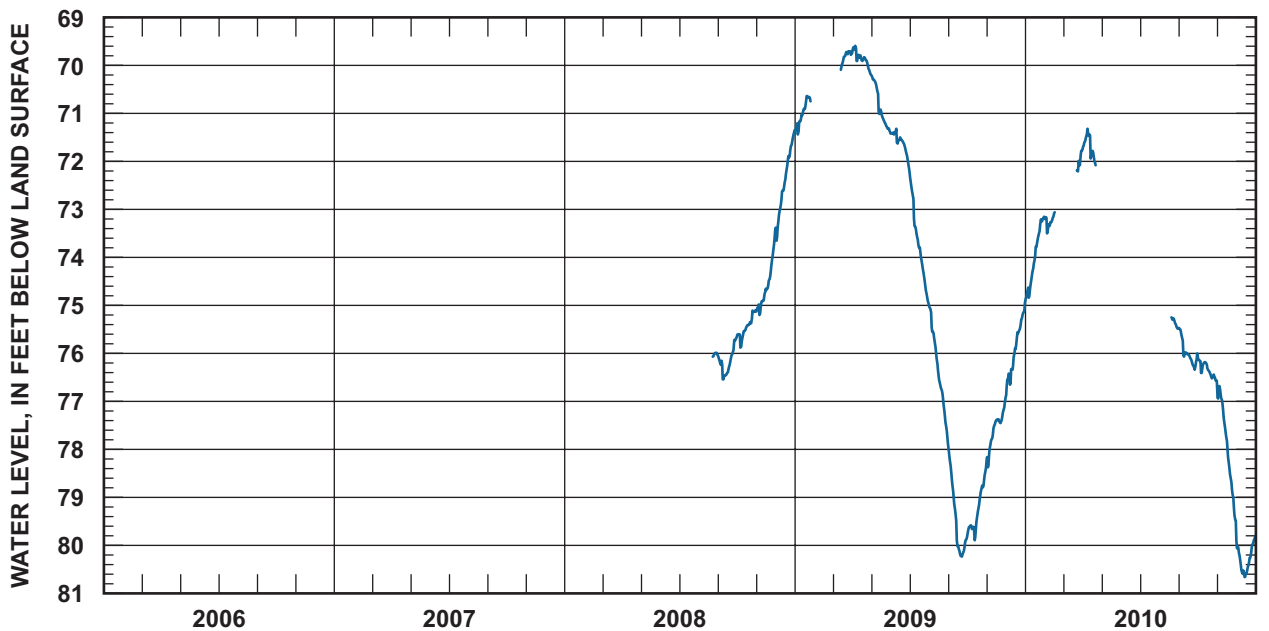
**MEASURING POINT:** Port in PVC instrument support, 0.00 ft above land surface.

**PERIOD OF RECORD:** 1975 to current year.

**EXTREMES:** Highest water level: 60.60 ft below land surface, June 19, 1975.

Lowest water level: 174.65 ft below land surface, July 12, 1988.

**REMARKS:** Intermittent measurements from 1975 to 2008.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	--	--	--	--	--	--	75.66	75.11	73.43	71.35	--	
	MEAN	--	--	--	--	--	--	--	76.16	75.44	74.58	72.38	--	
	LOW	--	--	--	--	--	--	--	76.54	75.88	75.20	73.65	--	
<b>2009</b>	HIGH	70.64*	--	69.71*	69.59	70.20	71.32	72.23	75.02	78.02	78.23	76.92	74.94	69.59 (Apr 6)
	MEAN	70.98*	--	69.82*	69.85	70.85	71.60	73.72	76.38	79.49	79.23	77.56	75.89	74.12
	LOW	71.44*	--	70.09*	70.18	71.38	72.14	74.96	77.88	80.23	79.89	78.37	76.87	80.23 (Sep 22)
<b>2010</b>	HIGH	73.15	73.06*	--	71.32*	--	--	--	75.47	76.10	76.68	79.80	--	
	MEAN	73.98	73.25*	--	71.69*	--	--	--	75.99	76.34	77.92	80.27	--	
	LOW	74.86	73.50*	--	72.08*	--	--	--	76.34	76.57	79.48	80.66	--	

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

HORRY COUNTY

WELL NUMBER: HOR-0309

LATITUDE: 33° 46' 04"

GRID NUMBER: 6R-r1

LONGITUDE: 78° 57' 59"

LOCATION: Conway, 2 miles southeast (U.S. Highway 501).

AQUIFER: Black Creek (Crouch Branch).

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 375 ft. Screened from 360 to 375 ft.

LAND SURFACE ELEVATION: 42.84 ft above National Geodetic Vertical Datum of 1929.

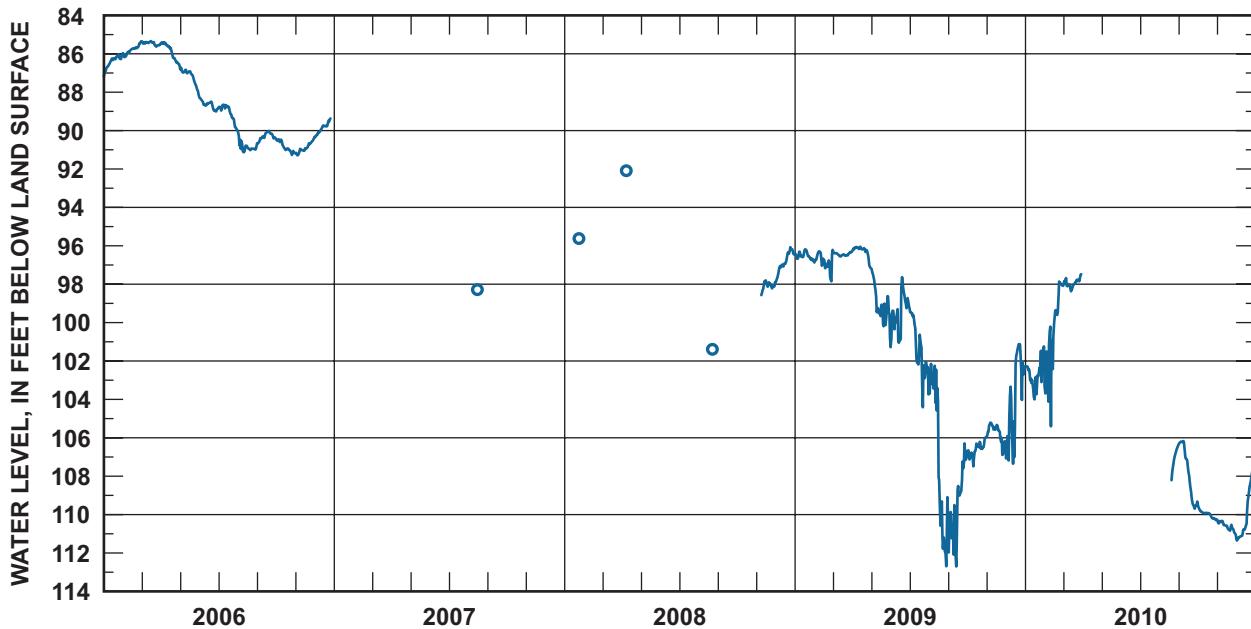
MEASURING POINT: Opening in white PVC instrument support, 3.74 ft above land surface.

PERIOD OF RECORD: April 2001 to current year.

EXTREMES: Highest water level: 83.53 ft below land surface, April 10, 2001.

Lowest water level: 112.70 ft below land surface, September 13, 2009.

REMARKS: Water levels may be affected by pumping and Aquifer Storage and Recovery projects.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	85.97	85.39	85.34	85.39	86.62	88.23	88.65	90.00	90.01	90.44	90.41	89.37	85.34 (Mar 17)
MEAN	86.39	85.80	85.45	85.86	87.14	88.64	89.05	90.83	90.30	90.85	90.90	89.89	88.43
LOW	87.19	86.18	85.63	86.53	88.11	89.00	89.95	91.13	90.67	91.27	91.29	90.34	91.29 (Nov 4)
<b>2007</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	97.80*	96.07	--
MEAN	--	--	--	--	--	--	--	--	--	--	98.07*	96.82	--
LOW	--	--	--	--	--	--	--	--	--	--	98.57*	97.89	--
<b>2009</b>													
HIGH	96.19	96.29	96.21	96.05	97.18	97.63	99.27	102.15	106.29	105.96	105.21	101.12	96.05 (Apr 14)
MEAN	96.53	96.83	96.43	96.28	98.98	99.52	101.38	106.94	109.37	106.58	105.76	103.80	101.53
LOW	96.87	97.85	96.56	97.14	100.76	101.28	104.41	112.69	112.70	107.49	106.89	107.35	112.70 (Sep 13)
<b>2010</b>													
HIGH	101.24	97.86	97.48	--	--	--	--	--	106.17	109.52	110.31	107.60	--
MEAN	102.69	100.55	97.94	--	--	--	--	--	107.82	109.97	110.61	109.84	--
LOW	104.00	105.40	98.37	--	--	--	--	--	109.69	110.28	111.06	111.35	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

## MARION COUNTY

**WELL NUMBER:** MRN-0077

**LATITUDE:** 33° 51' 42"

**GRID NUMBER:** 10Q-p1

**LONGITUDE:** 79° 19' 50"

**LOCATION:** Brittons Neck, 3 miles south (former Brittons Neck Fire Tower).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 356 ft. Screened from 325 to 355 ft.

**LAND SURFACE ELEVATION:** 31.66 ft above National Geodetic Vertical Datum of 1929.

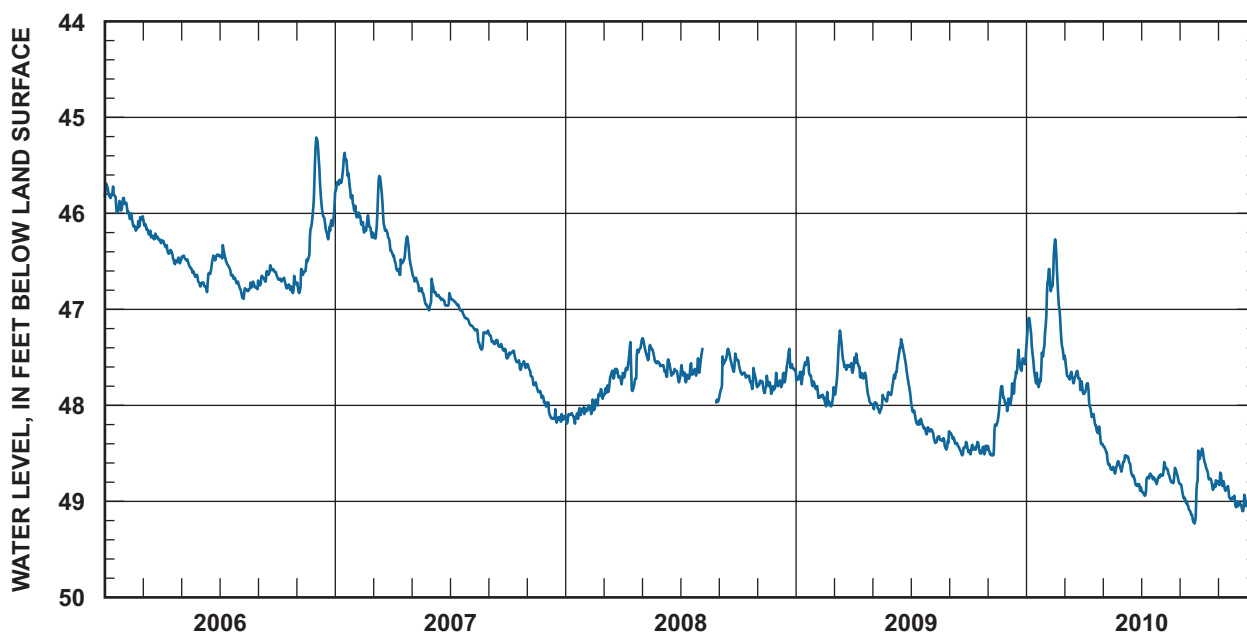
**MEASURING POINT:** Opening in PVC instrument support, 1.70 ft above land surface.

**PERIOD OF RECORD:** August 1982 to current year.

**EXTREMES:** Highest water level: 10.88 ft below land surface, March 28, 1983.

Lowest water level: 49.23 ft below land surface, September 24, 2010.

**REMARKS:** Monitored by USGS until December 2001, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	45.69	45.89	46.03	46.28	46.44	46.43	46.33	46.71	46.54	46.65	45.48	45.21	45.21 (Dec 2)
	MEAN	45.84	46.05	46.20	46.41	46.56	46.61	46.56	46.79	46.64	46.73	46.43	45.90	46.39
	LOW	45.99	46.18	46.31	46.53	46.73	46.82	46.73	46.89	46.75	46.83	46.83	46.27	46.89 (Aug 9)
<b>2007</b>	HIGH	45.37	45.92	45.61	46.24	46.55	46.68	46.83	47.13	47.24	47.43	47.57	47.97	45.37 (Jan 16)
	MEAN	45.67	46.09	46.09	46.47	46.80	46.88	46.98	47.25	47.36	47.52	47.79	48.11	46.92
	LOW	45.97	46.25	46.39	46.64	47.01	46.96	47.11	47.42	47.51	47.63	47.98	48.18	48.18 (Dec 18)
<b>2008</b>	HIGH	48.02	47.83	47.62	47.34	47.30	47.52	47.51	--	47.41	47.53	47.66	47.41	47.30 (May 2)
	MEAN	48.10	47.99	47.74	47.59	47.46	47.64	47.66	--	47.58	47.69	47.79	47.66	47.72
	LOW	48.19	48.09	47.89	47.85	47.59	47.76	47.76	--	47.91	47.83	47.88	47.81	48.19 (Jan 3)†
<b>2009</b>	HIGH	47.50	47.80	47.22	47.46	47.86	47.31	47.91	48.25	48.28	48.38	47.80	47.42	47.22 (Mar 11)
	MEAN	47.68	47.93	47.58	47.70	47.97	47.60	48.17	48.35	48.41	48.45	48.18	47.71	47.98
	LOW	47.82	48.01	47.89	47.99	48.08	47.87	48.30	48.46	48.52	48.51	48.52	48.06	48.52 (Nov 6)†
<b>2010</b>	HIGH	47.09	46.27	47.48	47.77	48.40	48.52	48.71	48.59	48.47	48.45	48.70	48.93	46.27 (Feb 15)
	MEAN	47.48	46.81	47.69	48.08	48.59	48.69	48.80	48.72	49.00	48.69	48.89	49.04	48.37
	LOW	47.81	47.46	47.86	48.40	48.71	48.89	48.94	48.81	49.23	48.88	49.06	49.10	49.23 (Sep 24)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**ORANGEBURG COUNTY**

**WELL NUMBER:** ORG-0393

**LATITUDE:** 33° 30' 30"

**GRID NUMBER:** 29U-v1

**LONGITUDE:** 80° 51' 54"

**LOCATION:** Orangeburg (Clark Middle School).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 463 ft. Screened from 423 to 463 ft.

**LAND SURFACE ELEVATION:** 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

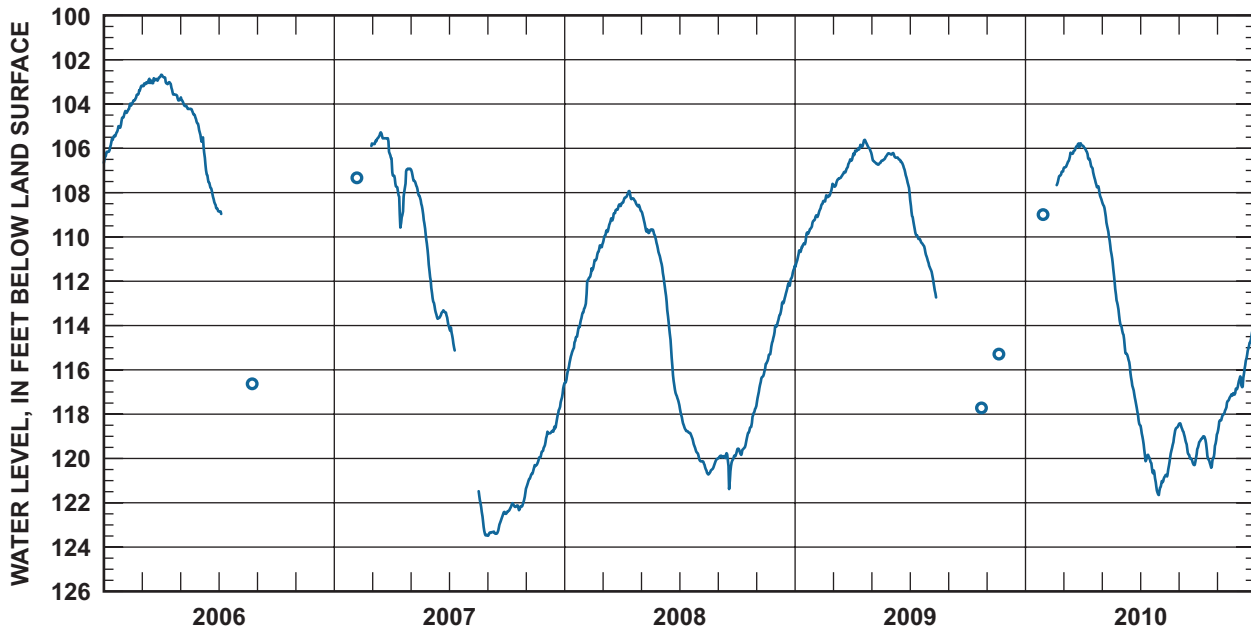
**MEASURING POINT:** Port in base of enclosure, 3.51 ft above land surface.

**PERIOD OF RECORD:** March 2001 to current year.

**EXTREMES:** Highest water level: 100.73 ft below land surface, March 6, 2004.

Lowest water level: 123.49 ft below land surface, September 2, 2007.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	104.67	103.35	102.86	102.75	103.77	105.24	--	--	--	--	--	--	--
MEAN	105.66	104.03	103.07	103.27	104.32	107.22	--	--	--	--	--	--	--
LOW	106.73	104.67	103.27	103.91	105.07	108.79	--	--	--	--	--	--	--
<b>2007</b>													
HIGH	--	--	105.28	106.44	106.92	111.55	--	--	122.41	121.55	119.46	116.72	--
MEAN	--	--	105.65	107.74	108.47	113.19	--	--	123.09	122.16	120.39	118.33	--
LOW	--	--	106.32	109.58	111.25	113.82	--	--	123.49	122.48	121.36	119.40	--
<b>2008</b>													
HIGH	113.41	110.38	108.53	107.93	108.81	110.97	117.59	119.96	119.69	117.63	114.02	111.30	107.93 (Apr 12)†
MEAN	114.96	111.50	109.27	108.33	109.76	114.34	118.85	120.32	120.06	118.95	115.78	112.69	114.57
LOW	116.60	113.23	110.33	108.74	110.86	117.45	119.81	120.72	121.38	119.84	117.45	114.04	121.38 (Sep 18)
<b>2009</b>													
HIGH	109.25	107.75	106.50	105.62	106.20	106.21	108.02	--	--	--	--	--	--
MEAN	110.19	108.49	107.18	105.99	106.50	106.71	109.95	--	--	--	--	--	--
LOW	111.35	109.20	107.73	106.49	106.73	107.78	111.18	--	--	--	--	--	--
<b>2010</b>													
HIGH	--	--	105.77	105.88	108.30	114.00	118.49	118.50	118.42	118.92	116.86	113.89	105.77 (Mar 29)
MEAN	--	--	106.29	106.91	110.81	116.11	120.13	120.06	119.46	119.55	117.68	115.54	115.25
LOW	--	--	107.05	108.23	113.95	118.43	121.65	121.46	120.30	120.42	118.83	116.87	121.65 (Jul 31)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.  
 † This value occurred on more than one day in that year. The date of the first occurrence is reported.

**SUMTER COUNTY**

**WELL NUMBER:** SUM-0497

**LATITUDE:** 33° 52' 27"

**GRID NUMBER:** 24Q-12

**LONGITUDE:** 80° 26' 16"

**LOCATION:** Sumter, 3.5 miles southwest (Manchester State Forest).

**AQUIFER:** Black Creek (Crouch Branch).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 100 ft. Screened from 70 to 100 ft.

**LAND SURFACE ELEVATION:** 183 ft (map estimate) above National Geodetic Vertical Datum of 1929.

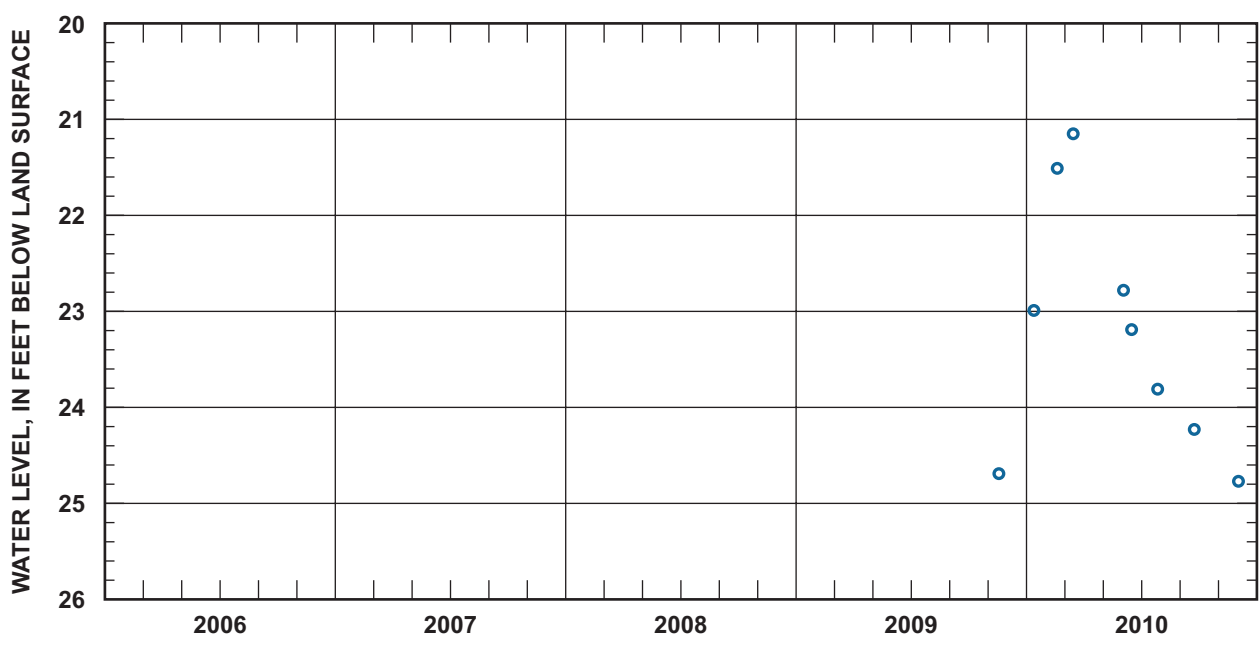
**MEASURING POINT:** Top of casing, 0.65 ft above land surface.

**PERIOD OF RECORD:** November 2009 to current year.

**EXTREMES:** Highest water level: 21.15 ft below land surface, March 15, 2010.

Lowest water level: 24.77 ft below land surface, December 2, 2010.

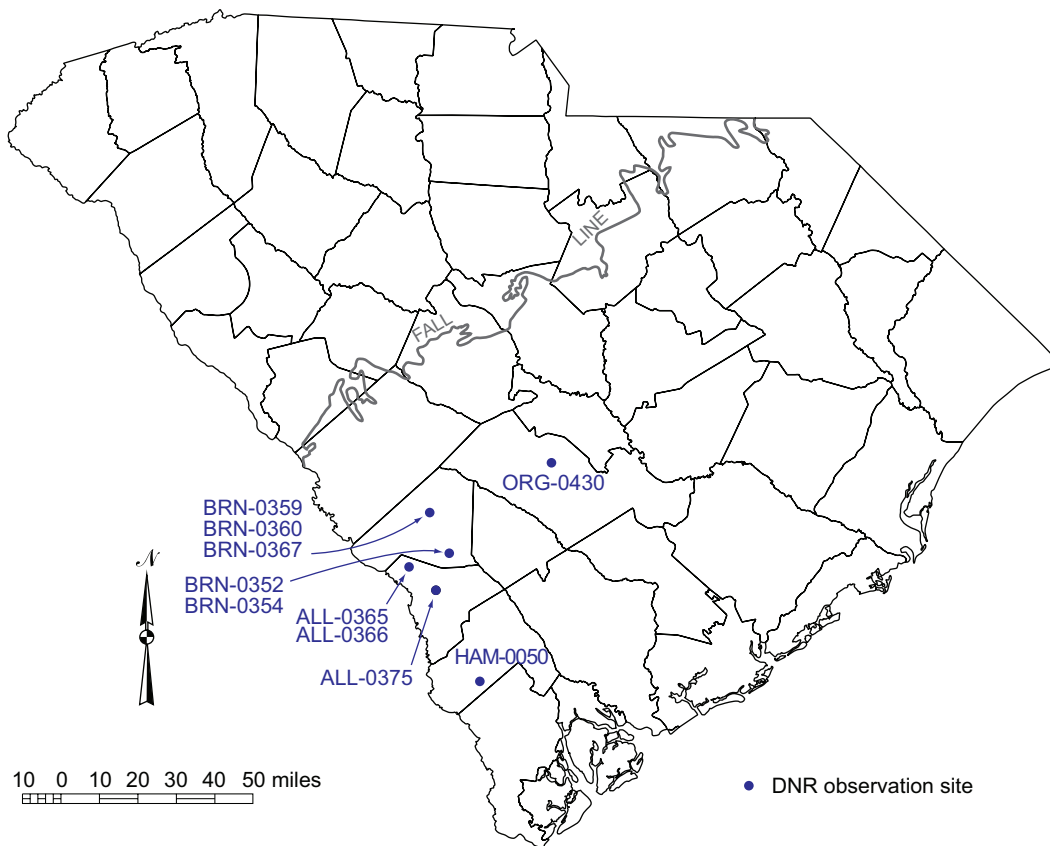
**REMARKS:**





## APPENDIX F

### Ground-water levels in the Tertiary sand aquifer, 2006–2010



ALLENDALE COUNTY

WELL NUMBER: ALL-0365

GRID NUMBER: 37Z-t6

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 333 ft. Screened from 318 to 328 ft.

LAND SURFACE ELEVATION: 244.29 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.87 ft above land surface.

PERIOD OF RECORD: January 2004 to current year.

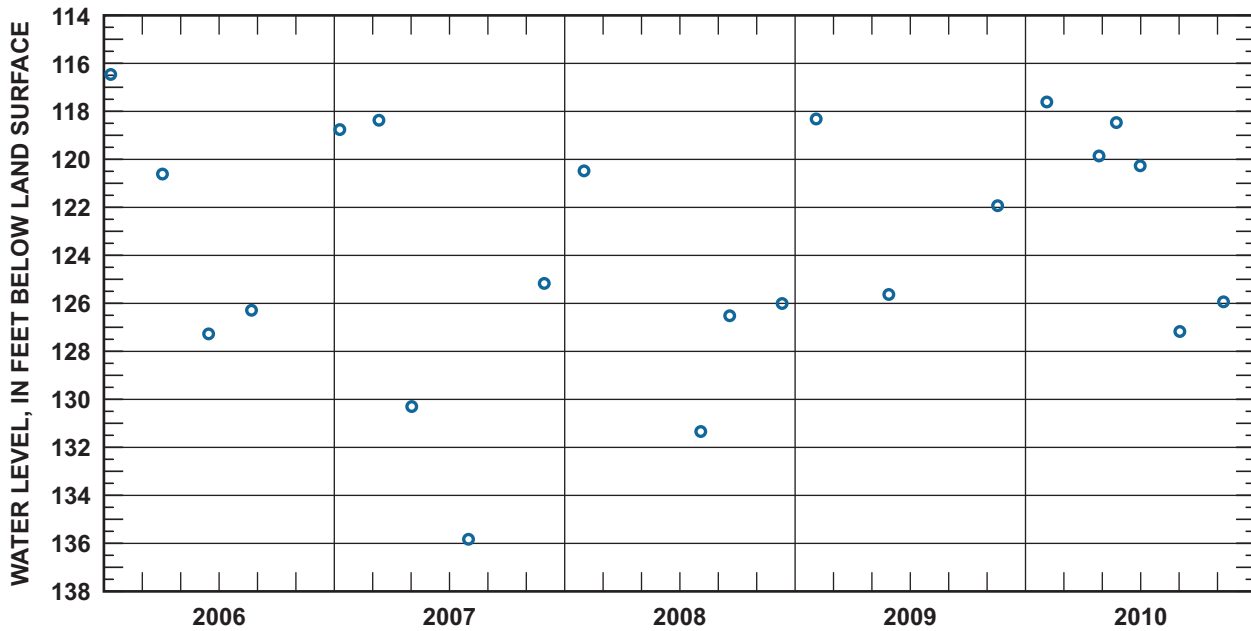
EXTREMES: Highest water level: 116.28 ft below land surface, January 27, 2005.

Lowest water level: 135.83 ft below land surface, August 2, 2007.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 06' 49"

LONGITUDE: 81° 30' 22"



ALLENDALE COUNTY

WELL NUMBER: ALL-0366

LATITUDE: 33° 06' 48"

GRID NUMBER: 37Z-t7

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 400 ft. Screened from 385 to 395 ft.

LAND SURFACE ELEVATION: 243.50 ft above National Geodetic Vertical Datum of 1929.

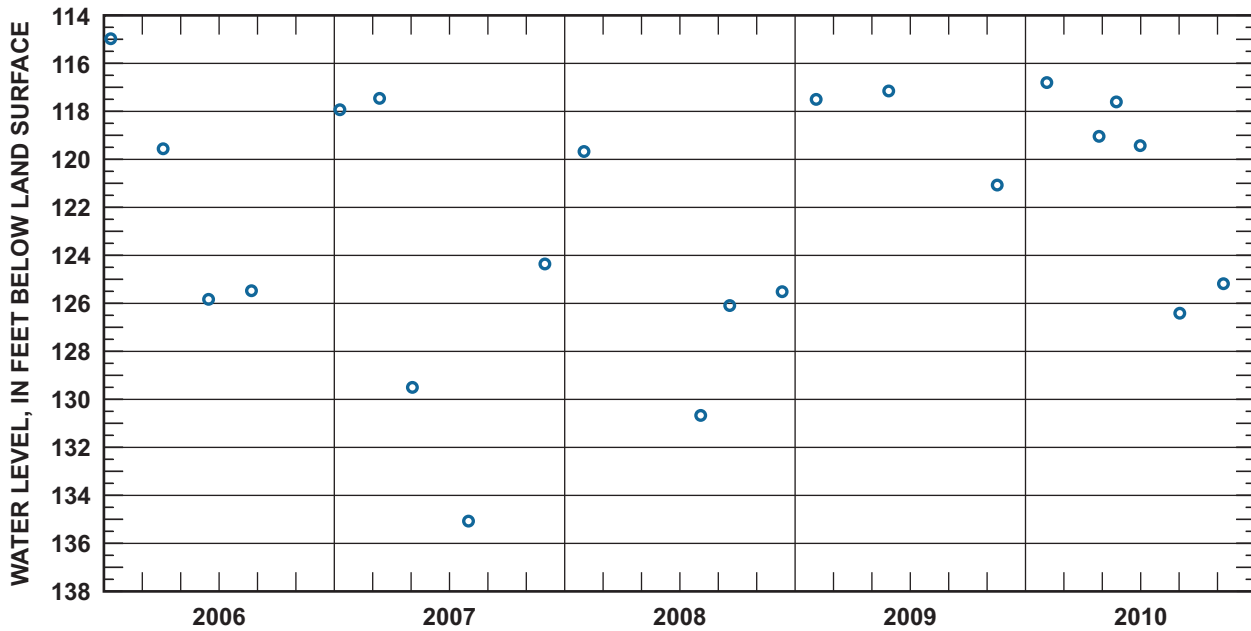
MEASURING POINT: Port in sanitary seal, 2.50 ft above land surface.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 108.34 ft below land surface, May 8, 1998.

Lowest water level: 135.07 ft below land surface, August 2, 2007.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project.



ALLENDALE COUNTY

WELL NUMBER: ALL-0375

GRID NUMBER: 35AA-q8

LOCATION: Allendale, 3.5 miles west (County Road 52).

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 583 ft. Screened from 453 to 578 ft.

LAND SURFACE ELEVATION: 282.89 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 3.46 ft above land surface.

PERIOD OF RECORD: October 1996 to current year.

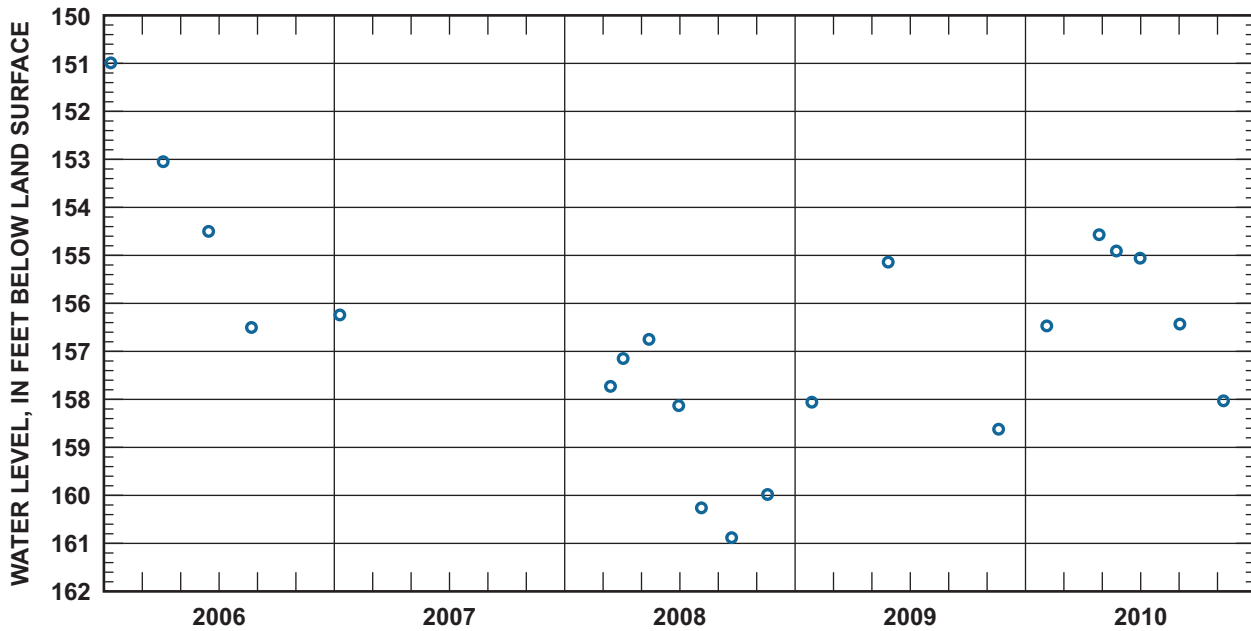
EXTREMES: Highest water level: 145.98 ft below land surface, May 8, 1998.

Lowest water level: 160.88 ft below land surface, September 22, 2008.

REMARKS: Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 01' 30"

LONGITUDE: 81° 23' 06"



**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0352

**LATITUDE:** 33° 10' 44"

**GRID NUMBER:** 34Y-x4

**LONGITUDE:** 81° 18' 51"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Tertiary sand (Gordon).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 293 ft. Screened from 278 to 288 ft.

**LAND SURFACE ELEVATION:** 207.2 ft above National Geodetic Vertical Datum of 1929.

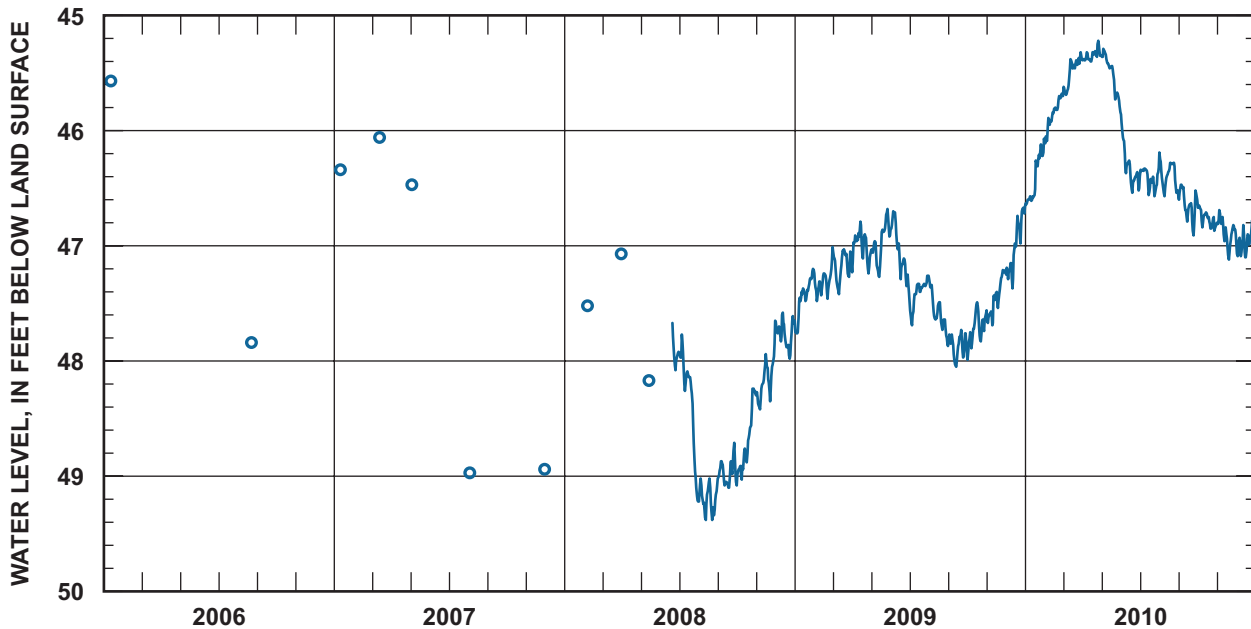
**MEASURING POINT:** Top of white PVC instrument support, 2.49 ft above land surface.

**PERIOD OF RECORD:** February 1989 to current year.

**EXTREMES:** Highest water level: 38.63 ft below land surface, April 21, 1993.

Lowest water level: 49.38 ft below land surface, August 12, 2008 and August 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> HIGH	--	--	--	--	--	--	47.77	49.02	48.71	48.24	47.65	47.58	--
<b>2008</b> MEAN	--	--	--	--	--	--	48.35	49.19	48.97	48.69	48.15	47.76	--
<b>2008</b> LOW	--	--	--	--	--	--	49.22	49.38	49.10	49.03	48.42	47.98	--
<b>2009</b> HIGH	47.20	47.12	47.01	46.79	46.68	46.70	47.26	47.29	47.73	47.49	47.21	46.66	46.66 (Dec 31)
<b>2009</b> MEAN	47.43	47.33	47.17	47.00	46.97	47.04	47.41	47.58	47.87	47.71	47.44	46.99	47.33
<b>2009</b> LOW	47.76	47.48	47.42	47.24	47.27	47.41	47.69	47.87	48.05	47.99	47.69	47.37	48.05 (Sep 13)
<b>2010</b> HIGH	46.07	45.68	45.32	45.22	45.29	45.86	46.32	46.19	46.47	46.65	46.69	46.78	45.22 (Apr26)
<b>2010</b> MEAN	46.41	45.86	45.49	45.35	45.51	46.31	46.41	46.39	46.64	46.76	46.88	46.95	46.25
<b>2010</b> LOW	46.64	46.11	45.70	45.40	45.84	46.54	46.57	46.57	46.91	46.87	47.12	47.10	47.12 (Nov 19)

BARNWELL COUNTY

WELL NUMBER: BRN-0354

GRID NUMBER: 34Y-x6

LOCATION: Barnwell, 4 miles southeast (S.C. Highway 300).

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 411 ft. Screened from 396 to 406 ft.

LAND SURFACE ELEVATION: 207.6 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.85 ft above land surface.

PERIOD OF RECORD: February 1989 to current year.

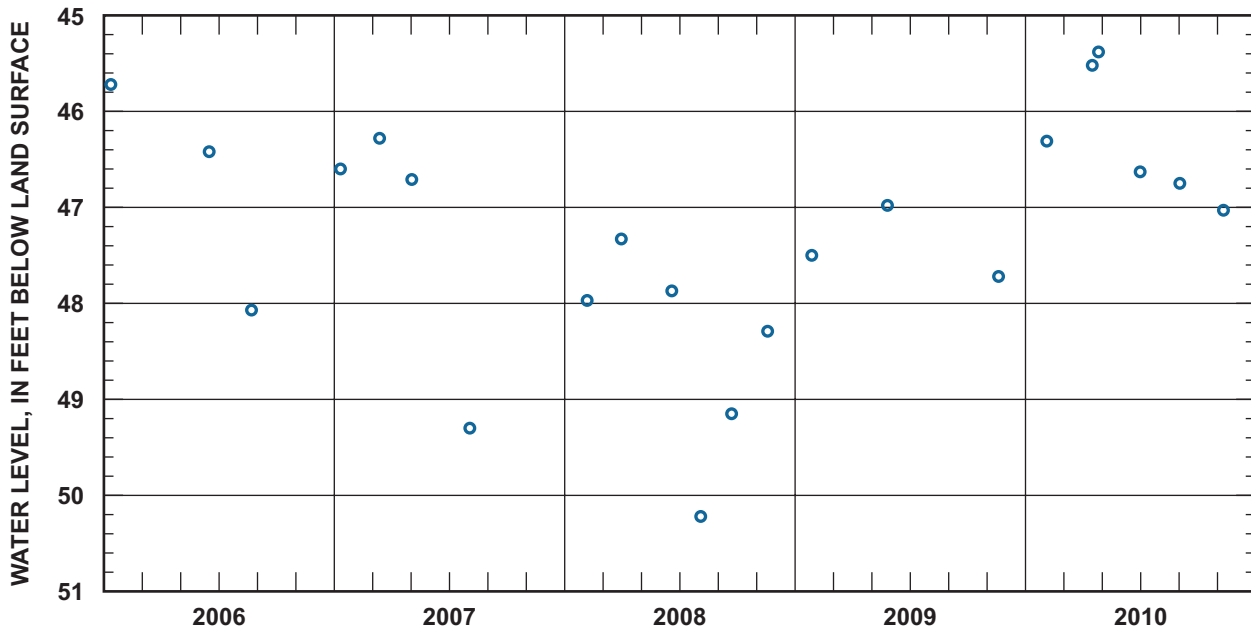
EXTREMES: Highest water level: 38.95 ft below land surface, April 21, 1993.

Lowest water level: 50.22 ft below land surface, August 4, 2008.

REMARKS: Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 10' 45"

LONGITUDE: 81° 18' 51"



BARNWELL COUNTY

WELL NUMBER: BRN-0359

LATITUDE: 33° 19' 19"

GRID NUMBER: 35X-e3

LONGITUDE: 81° 24' 24"

LOCATION: Williston, 3.5 miles south.

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 214 ft. Screened from 199 to 209 ft.

LAND SURFACE ELEVATION: 265.5 ft above National Geodetic Vertical Datum of 1929.

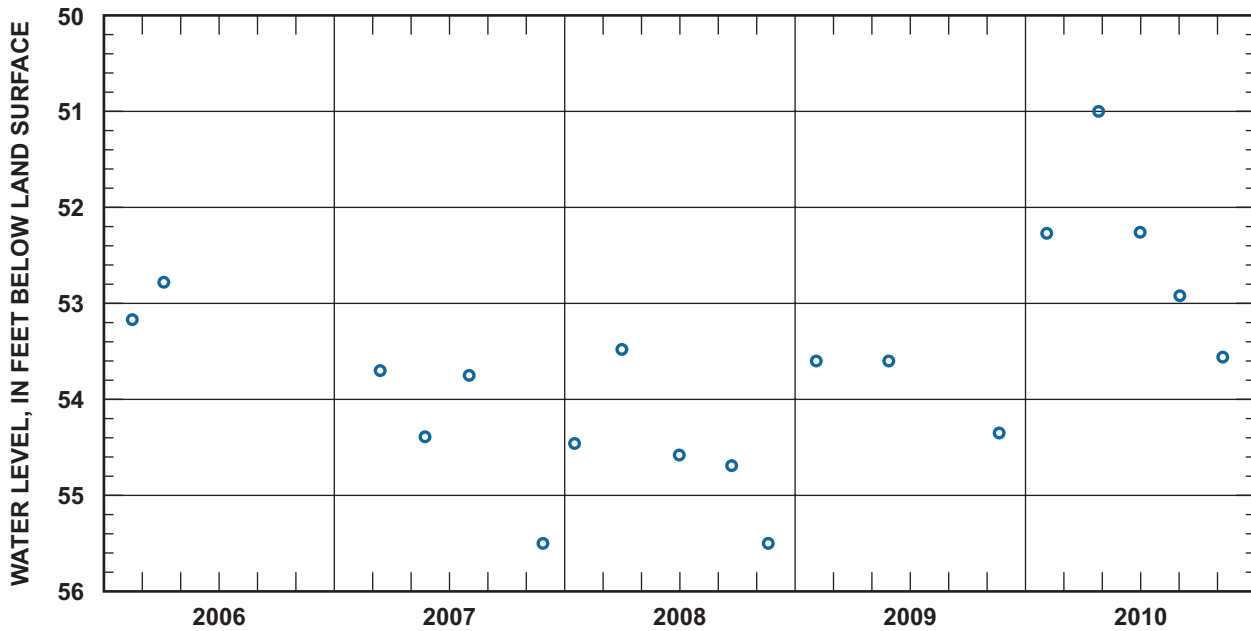
MEASURING POINT: Port in sanitary seal, 3.00 ft above land surface.

PERIOD OF RECORD: February 1989 to current year.

EXTREMES: Highest water level: 44.39 ft below land surface, April 15, 1996.

Lowest water level: 55.50 ft below land surface, November 27, 2007 and November 18, 2008.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.



BARNWELL COUNTY

WELL NUMBER: BRN-0360

GRID NUMBER: 35X-e4

LOCATION: Williston, 3.5 miles south.

AQUIFER: Tertiary sand (Upper Three Runs).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 140 ft. Screened from 125 to 134 ft.

LAND SURFACE ELEVATION: 264.3 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 2.06 ft above land surface.

PERIOD OF RECORD: February 1989 to current year.

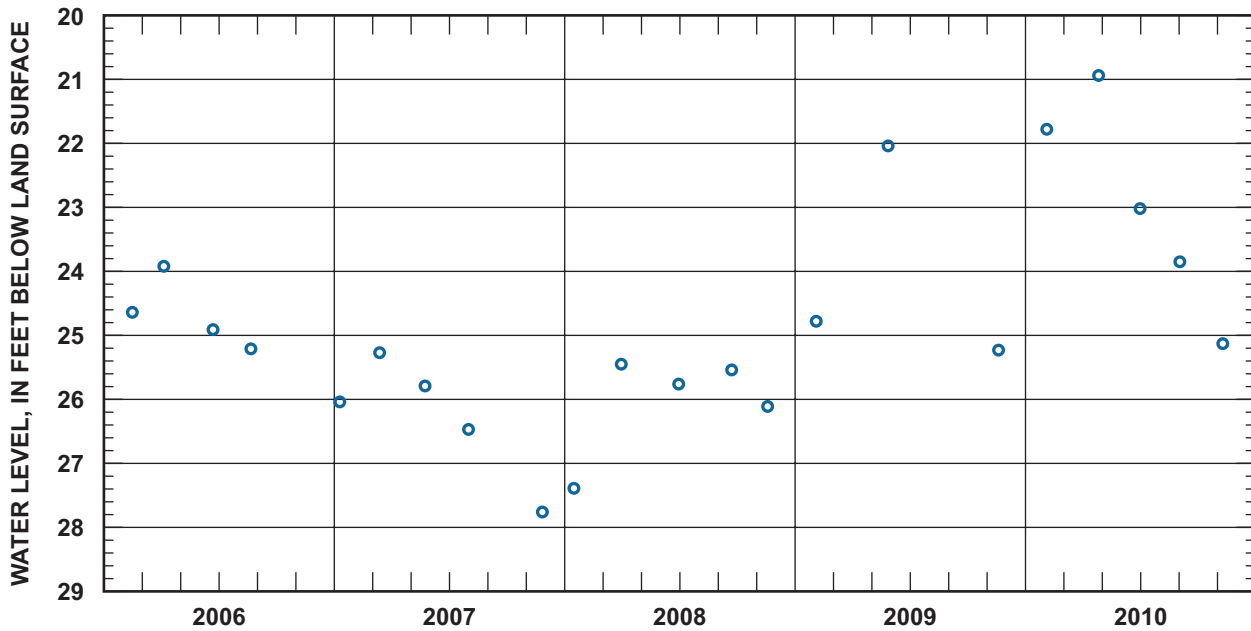
EXTREMES: Highest water level: 14.15 ft below land surface, May 23, 1993.

Lowest water level: 27.76 ft below land surface, November 27, 2007.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.

LATITUDE: 33° 19' 18"

LONGITUDE: 81° 24' 24"





BARNWELL COUNTY

WELL NUMBER: BRN-0367

LATITUDE: 33° 19' 17"

GRID NUMBER: 35X-e7

LONGITUDE: 81° 24' 25"

LOCATION: Williston, 3.5 miles south.

AQUIFER: Tertiary sand (Gordon).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 285 ft. Screened from 270 to 280 ft.

LAND SURFACE ELEVATION: 263.8 ft above National Geodetic Vertical Datum of 1929.

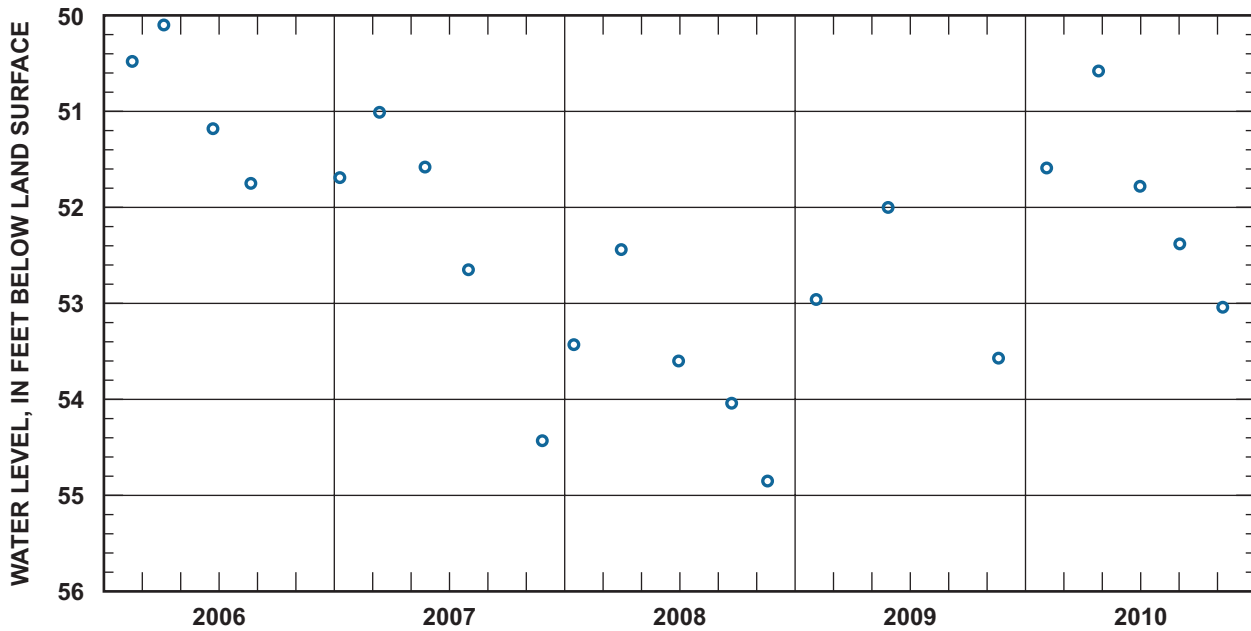
MEASURING POINT: Port in sanitary seal, 3.00 ft above land surface.

PERIOD OF RECORD: May 1993 to current year.

EXTREMES: Highest water level: 43.64 ft below land surface, May 21, 1993.

Lowest water level: 54.85 ft below land surface, November 18, 2008.

REMARKS: Well-cluster site C-5. One of seven wells drilled on site for Department of Energy and DNR project.



**HAMPTON COUNTY**

**WELL NUMBER:** HAM-0050

**LATITUDE:** 32° 40' 48"

**GRID NUMBER:** 33EE-v1

**LONGITUDE:** 81° 11' 20"

**LOCATION:** Furman (U.S. Highway 601).

**AQUIFER:** Tertiary sand (Gordon).

**WELL CHARACTERISTICS:** 8-inch diameter unused public supply well. Depth: 968 ft. Open interval unknown.

**LAND SURFACE ELEVATION:** 115 ft (map estimate) above National Geodetic Vertical Datum of 1929.

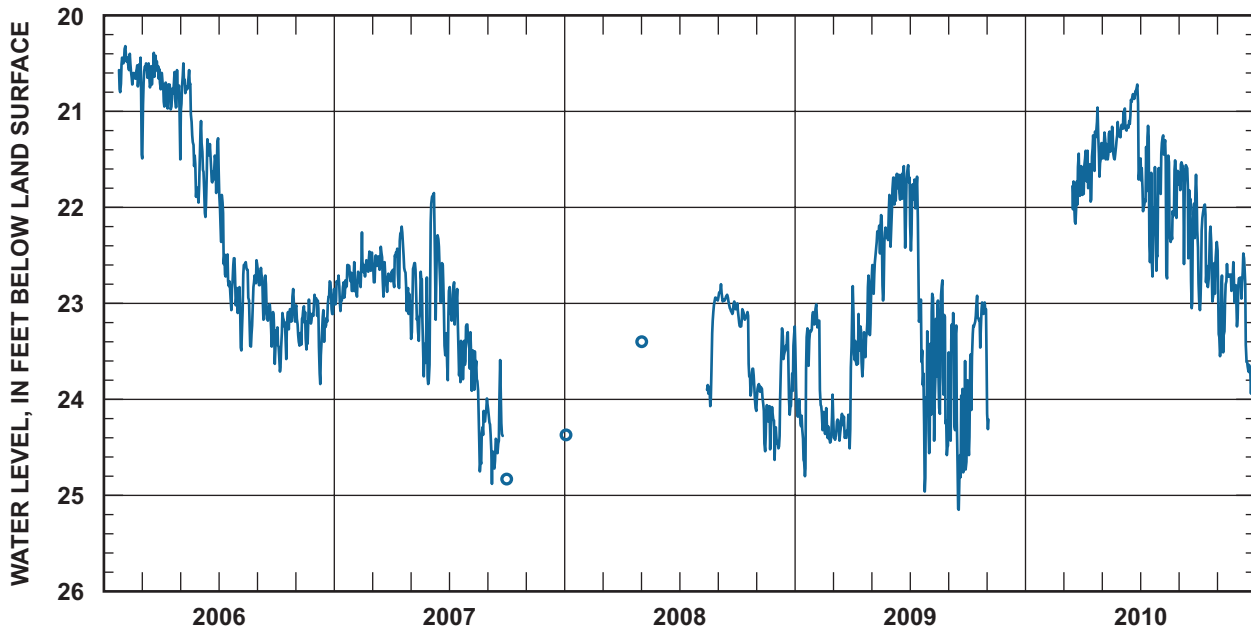
**MEASURING POINT:** Top of PVC instrument support, 2.25 ft above land surface.

**PERIOD OF RECORD:** February 2001 to current year.

**EXTREMES:** Highest water level: 19.52 ft below land surface, June 25, 2004.

Lowest water level: 26.73 ft below land surface, June 1, 2002.

**REMARKS:**



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	20.32	20.39	20.57	20.50	21.10	21.28	22.55	22.59	22.85	22.96	22.77	20.32 (Feb 4)
MEAN	--	20.54	20.66	20.80	21.10	21.58	22.50	22.94	23.00	23.25	23.20	23.14	22.06
LOW	--	20.74	21.49	20.98	21.95	22.10	23.07	23.49	23.63	23.71	23.48	23.84	23.84 (Dec 10)
<b>2007</b>													
HIGH	22.60	22.26	22.41	22.20	22.58	21.85	22.78	23.30	23.59	--	--	--	--
MEAN	22.83	22.67	22.65	22.63	23.15	22.72	23.26	23.94	24.36	--	--	--	--
LOW	23.08	22.93	22.93	23.11	23.84	23.80	23.82	24.75	24.88	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	--	--	--	--	22.94*	22.80	23.00	23.84	23.24	--
MEAN	--	--	--	--	--	--	--	23.42*	22.98	23.43	24.13	23.80	--
LOW	--	--	--	--	--	--	--	24.07*	23.11	24.12	24.63	24.51	--
<b>2009</b>													
HIGH	23.09	23.01	23.45	22.71	21.87	21.56	21.68	22.76	23.10	22.92	--	--	21.56 (Jun 29)
MEAN	23.83	23.93	24.25	23.34	22.42	21.84	22.91	23.67	24.12	23.37	--	--	23.37
LOW	24.80	24.45	24.51	23.76	22.97	22.42	24.96	24.58	25.15	24.58	--	--	25.15 (Sep 17)
<b>2010</b>													
HIGH	--	--	--	20.96	21.11	20.72	21.15	21.25	21.53	21.97	22.45	22.48	--
MEAN	--	--	--	21.51	21.34	21.04	21.94	21.81	21.96	22.54	22.93	23.20	--
LOW	--	--	--	21.94	21.50	21.71	22.72	22.74	23.05	23.07	23.55	23.94	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**ORANGEBURG COUNTY**

**WELL NUMBER:** ORG-0430

**LATITUDE:** 33° 30' 30"

**GRID NUMBER:** 29U-v2

**LONGITUDE:** 80° 51' 54"

**LOCATION:** Orangeburg (Clark Middle School).

**AQUIFER:** Tertiary sand (Gordon).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 275 ft. Screened from 205 to 265 ft.

**LAND SURFACE ELEVATION:** 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

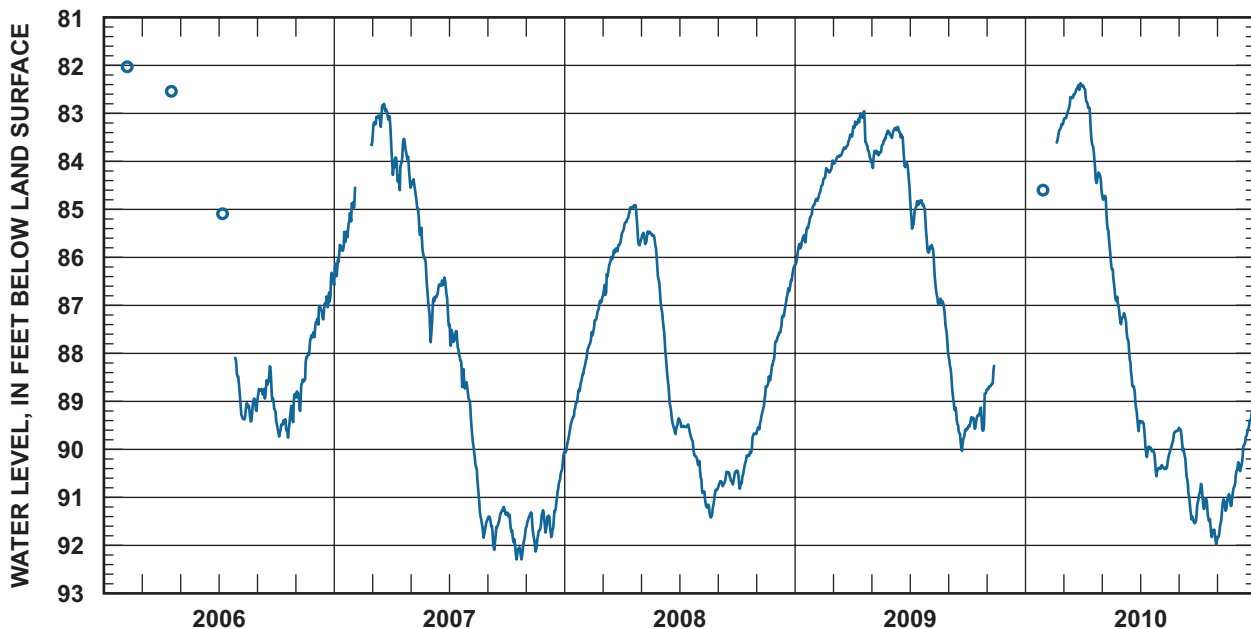
**MEASURING POINT:** Port in base of enclosure, 3.25 ft above land surface.

**PERIOD OF RECORD:** March 2001 to current year.

**EXTREMES:** Highest water level: 80.25 ft below land surface, March 26, 2004.

Lowest water level: 92.70 ft below land surface, September 25, 2002.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



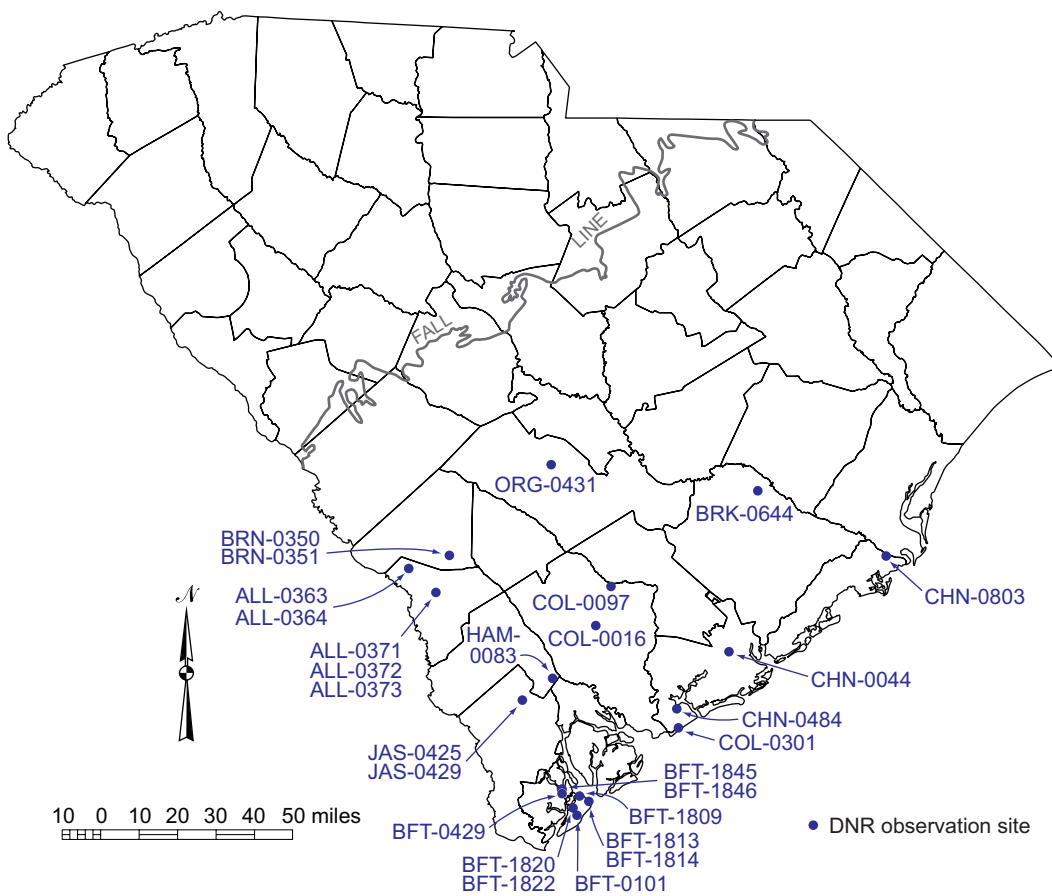
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	--	--	--	--	--	--	88.48	88.27	88.85	87.56	86.32	--
	MEAN	--	--	--	--	--	--	89.11	88.78	89.42	88.34	87.00	--
	LOW	--	--	--	--	--	--	89.42	89.22	89.75	89.20	87.66	--
<b>2007</b>	HIGH	84.85	--	82.80	83.51	84.37	86.42	87.32	88.83	91.20	91.32	90.09	82.80 (Mar 21)
	MEAN	85.67	--	83.11	83.99	85.38	86.83	88.00	90.55	91.52	91.86	91.61	88.15
	LOW	86.58	--	83.66	84.60	87.05	87.77	88.73	91.84	92.09	92.29	92.13	92.29 (Oct 17)†
<b>2008</b>	HIGH	88.42	86.90	85.59	84.91	85.46	86.84	89.37	90.24	90.44	89.67	87.78	84.91 (Apr 21)
	MEAN	89.25	87.55	86.13	85.23	85.72	88.62	89.73	90.97	90.61	90.21	88.83	88.32
	LOW	90.06	88.31	86.83	85.75	86.66	89.68	90.33	91.42	90.78	90.82	89.62	87.75
<b>2009</b>	HIGH	84.91	84.07	83.44	82.95	83.36	83.28	84.57	85.74	88.07	88.77	--	82.95 (Apr 20)
	MEAN	85.52	84.44	83.79	83.34	83.71	83.62	85.09	86.71	89.27	89.33	--	85.48
	LOW	86.16	84.86	84.05	83.94	84.14	84.41	85.90	87.97	90.03	89.61	--	90.03 (Sep 22)
<b>2010</b>	HIGH	--	--	82.37	82.42	84.59	87.16	89.41	89.60	89.55	90.72	90.54	82.37 (Mar 29)
	MEAN	--	--	82.73	83.45	85.93	88.21	89.95	90.07	90.69	91.34	91.17	88.33
	LOW	--	--	83.22	84.45	87.36	89.62	90.56	90.41	91.54	91.98	91.83	91.98 (Oct 30)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.



## APPENDIX G

### Ground-water levels in the Floridan aquifer, 2006–2010



ALLENDALE COUNTY

WELL NUMBER: ALL-0363

LATITUDE: 33° 06' 50"

GRID NUMBER: 37Z-t4

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Floridan (Upper Three Runs).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 105 ft. Screened from 90 to 100 ft.

LAND SURFACE ELEVATION: 246.13 ft above National Geodetic Vertical Datum of 1929.

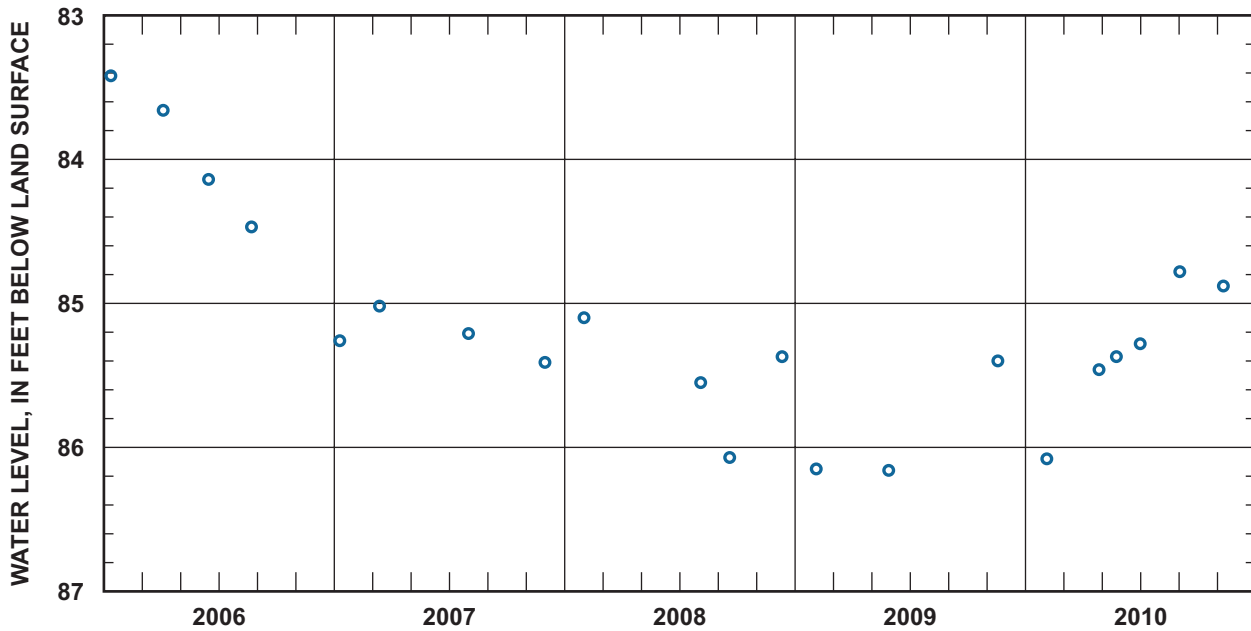
MEASURING POINT: Port in sanitary seal, 2.53 ft above land surface.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 68.34 ft below land surface, June 14, 1998.

Lowest water level: 86.16 ft below land surface, May 29, 2009.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project. Site is located near updip limit of Floridan aquifer (transition zone between Floridan and Tertiary sand).



ALLENDALE COUNTY

WELL NUMBER: ALL-0364

LATITUDE: 33° 06' 49"

GRID NUMBER: 37Z-t5

LONGITUDE: 81° 30' 22"

LOCATION: Millet, 3 miles northeast (County Road 24).

AQUIFER: Floridan (Upper Three Runs).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 225 ft. Screened from 210 to 220 ft.

LAND SURFACE ELEVATION: 245.17 ft above National Geodetic Vertical Datum of 1929.

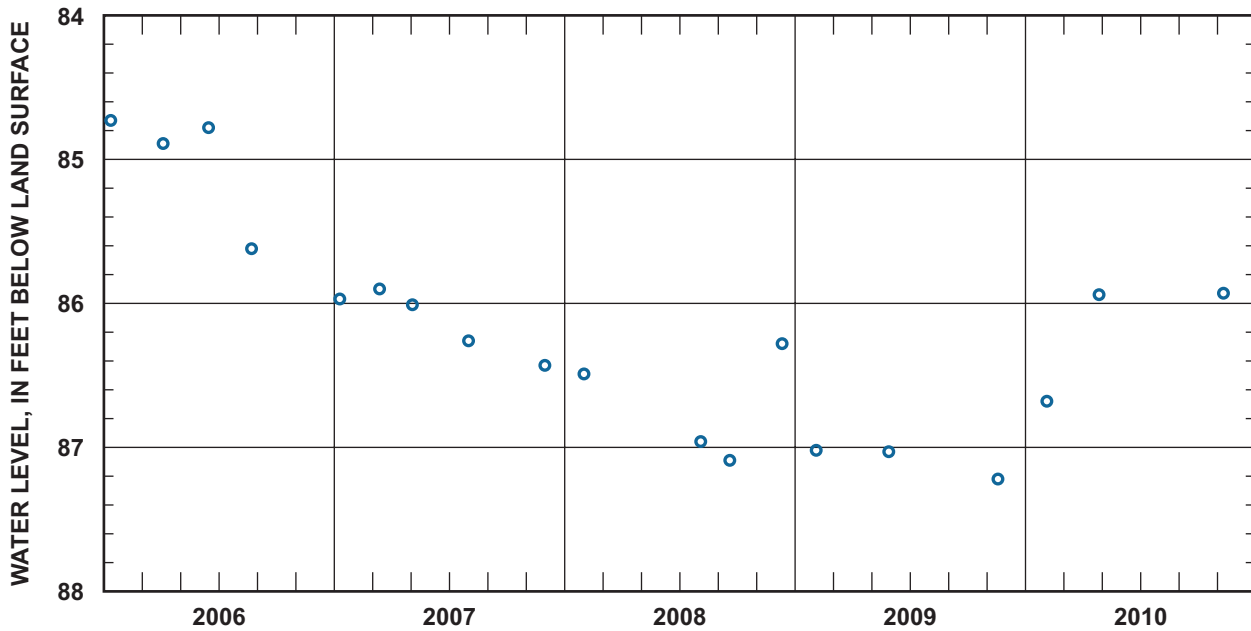
MEASURING POINT: Port in sanitary seal, 2.53 ft above land surface.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 71.90 ft below land surface, May 8, 1998.

Lowest water level: 87.22 ft below land surface, November 17, 2009.

REMARKS: Well-cluster site C-7. One of nine wells drilled on site for Department of Energy and DNR project. Site is located near updip limit of Floridan aquifer (transition zone between Floridan and Tertiary sand).



ALLENDALE COUNTY

WELL NUMBER: ALL-0371

GRID NUMBER: 35AA-q4

LOCATION: Allendale, 3.5 miles west (County Road 52).

AQUIFER: Floridan (Upper Floridan).

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 217 ft. Screened from 192 to 212 ft.

LAND SURFACE ELEVATION: 282.23 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Port in sanitary seal, 3.00 ft above land surface.

PERIOD OF RECORD: August 1996 to current year.

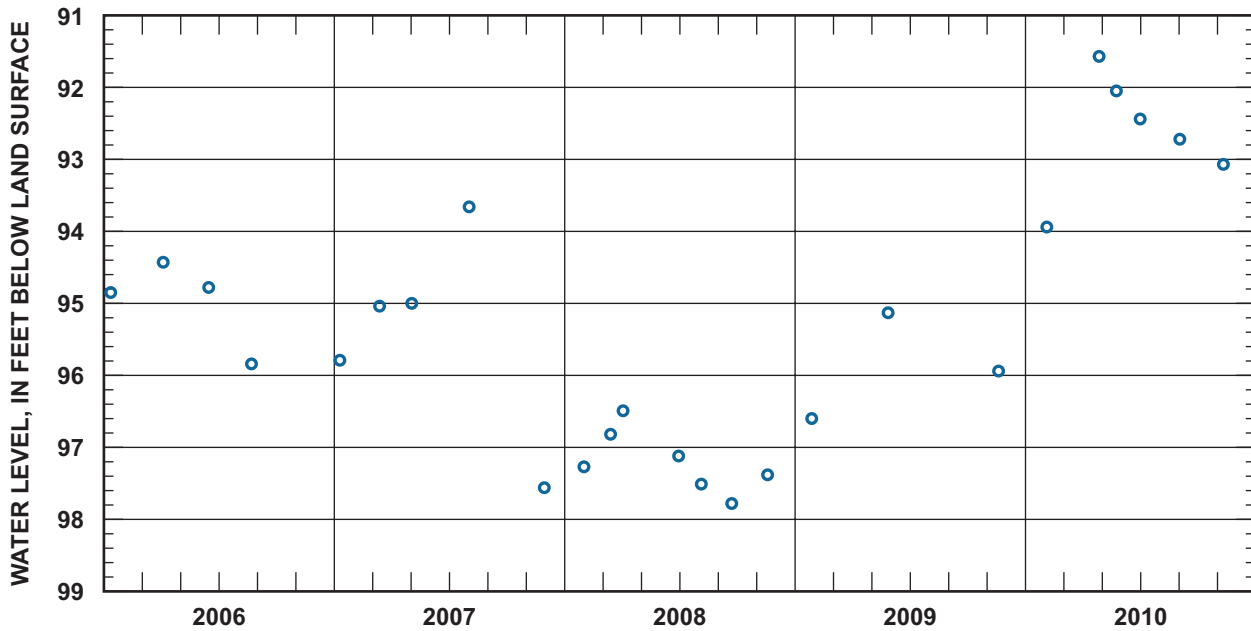
EXTREMES: Highest water level: 85.46 ft below land surface, May 10, 1998.

Lowest water level: 100.11 ft below land surface, November 8, 2002.

REMARKS: Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project. Site is located near updip limit of Floridan aquifer (transition zone between Floridan and Tertiary sand).

LATITUDE: 33° 01' 29"

LONGITUDE: 81° 23' 05"





**ALLENDALE COUNTY**

**WELL NUMBER:** ALL-0372

**LATITUDE:** 33° 01' 29"

**GRID NUMBER:** 35AA-q5

**LONGITUDE:** 81° 23' 04"

**LOCATION:** Allendale, 3.5 miles west (County Road 52).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 155 ft. Screened from 140 to 150 ft.

**LAND SURFACE ELEVATION:** 282.04 ft above National Geodetic Vertical Datum of 1929.

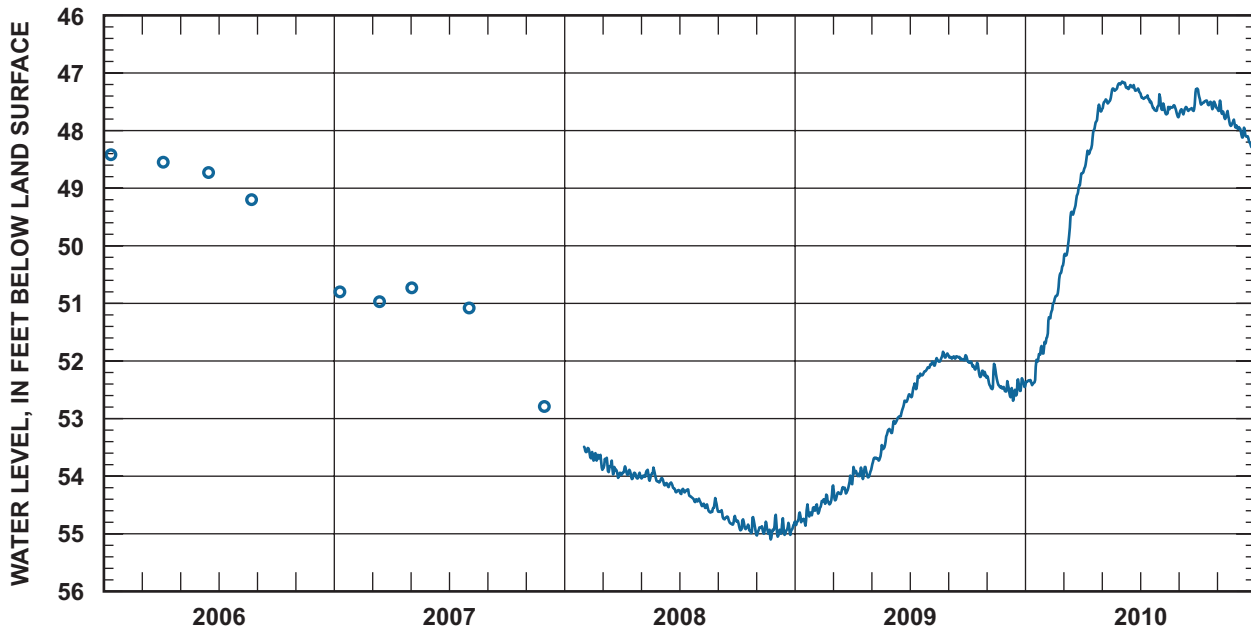
**MEASURING POINT:** Port in sanitary seal, 2.96 ft above land surface.

**PERIOD OF RECORD:** August 1996 to current year.

**EXTREMES:** Highest water level: 38.14 ft below land surface, June 3, 1998.

Lowest water level: 59.77 ft below land surface, January 30, 2003.

**REMARKS:** Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project. Site is located near updip limit of Floridan aquifer (transition zone between Floridan and Tertiary sand).



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	53.49	53.68	53.83	53.85	54.03	54.22	54.38	54.59	54.71	54.67	53.49 (Feb 1)	
	MEAN	--	53.63	53.87	53.96	54.00	54.16	54.33	54.52	54.73	54.87	54.93	54.36	
	LOW	--	53.85	54.03	54.05	54.11	54.28	54.45	54.63	54.84	55.02	55.10	55.10 (Nov 23)	
<b>2009</b>	HIGH	54.49	54.32	53.99	53.84	53.18	52.58	52.11	51.84	51.90	52.00	52.05	52.30	51.84 (Aug 23)
	MEAN	54.70	54.48	54.24	53.95	53.55	52.92	52.34	51.98	51.94	52.14	52.38	52.48	53.09
	LOW	54.86	54.65	54.42	54.14	53.89	53.25	52.63	52.12	51.99	52.29	52.53	52.69	54.86 (Jan 17)
<b>2010</b>	HIGH	51.67	50.36	48.74	47.55	47.18	47.15	47.34	47.37	47.27	47.29	47.48	47.91	47.15 (Jun 3)
	MEAN	52.13	51.01	49.53	48.17	47.39	47.24	47.50	47.62	47.60	47.51	47.76	48.12	48.47
	LOW	52.42	51.70	50.34	48.74	47.66	47.33	47.66	47.77	47.75	47.63	47.95	48.40	52.42 (Jan 11)

**ALLENDALE COUNTY**

**WELL NUMBER:** ALL-0373

**LATITUDE:** 33° 01' 29"

**GRID NUMBER:** 35AA-q6

**LONGITUDE:** 81° 23' 03"

**LOCATION:** Allendale, 3.5 miles west (County Road 52).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 372 ft. Screened from 327 to 367 ft.

**LAND SURFACE ELEVATION:** 279.67 ft above National Geodetic Vertical Datum of 1929.

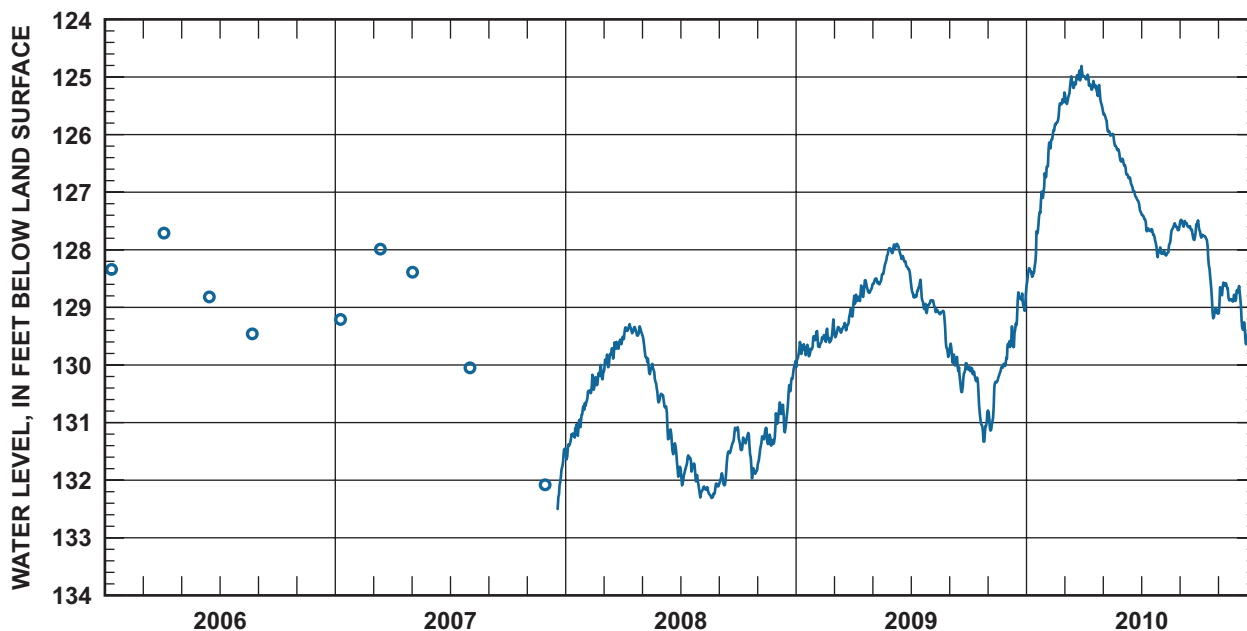
**MEASURING POINT:** Port in sanitary seal, 2.74 ft above land surface.

**PERIOD OF RECORD:** August 1996 to current year.

**EXTREMES:** Highest water level: 119.71 ft below land surface, May 8, 1998.

Lowest water level: 133.86 ft below land surface, June 21, 2002.

**REMARKS:** Well-cluster site C-10. One of nine wells drilled on site for Department of Energy and DNR project. Site is located near updip limit of Floridan aquifer (transition zone between Floridan and Tertiary sand).



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	130.71	130.00	129.56	129.29	129.44	130.50	131.57	132.06	131.08	131.12	130.84	129.93	129.29 (Apr 12)
	MEAN	131.17	130.36	129.79	129.41	130.07	131.18	131.83	132.19	131.61	131.51	131.32	130.63	130.92
	LOW	131.64	130.71	130.14	129.55	130.65	131.94	132.14	132.31	132.09	131.97	131.73	131.17	132.31 (Aug 20)
<b>2009</b>	HIGH	129.50	129.33	129.02	128.53	127.97	127.90	128.48	128.88	129.63	130.04	129.87	128.74	127.90 (Jun 9)†
	MEAN	129.73	129.54	129.32	128.77	128.38	128.10	128.81	129.17	130.03	130.56	130.41	129.24	129.34
	LOW	130.04	129.69	129.52	129.08	128.65	128.40	129.10	129.86	130.47	131.33	131.14	129.89	131.33 (Oct 25)†
<b>2010</b>	HIGH	126.67	125.39	124.81	124.96	125.52	126.42	127.34	127.54	127.48	127.60	128.57	128.63	124.81 (Mar 29)
	MEAN	127.82	125.93	125.14	125.15	126.01	126.84	127.69	127.84	127.60	128.31	128.78	129.20	127.19
	LOW	128.63	126.73	125.47	125.48	126.47	127.32	128.13	128.10	127.83	129.19	129.11	129.64	129.64 (Dec 15)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0350

**LATITUDE:** 33° 10' 45"

**GRID NUMBER:** 34Y-x2

**LONGITUDE:** 81° 18' 51"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Floridan (Upper Three Runs)

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 170 ft. Screened from 155 to 165 ft.

**LAND SURFACE ELEVATION:** 207.4 ft above National Geodetic Vertical Datum of 1929.

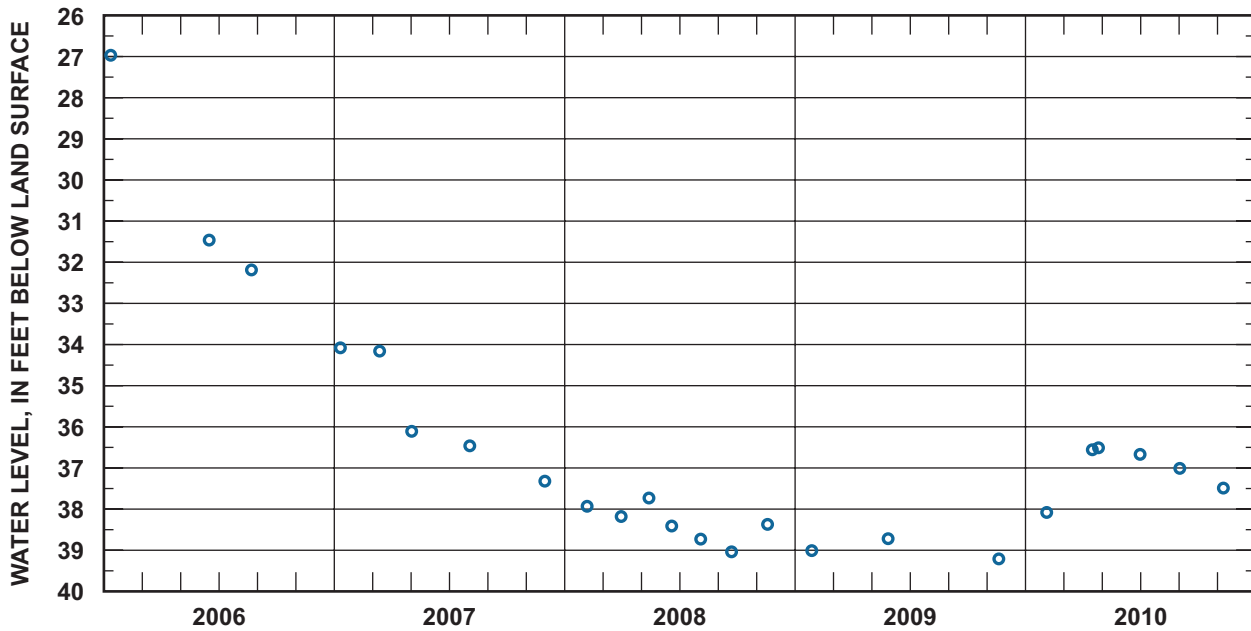
**MEASURING POINT:** Port in sanitary seal, 2.74 ft above land surface.

**PERIOD OF RECORD:** April 1988 to current year.

**EXTREMES:** Highest water level: 24.56 ft below land surface, May 13, 1993.

Lowest water level: 39.04 ft below land surface, September 22, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



**BARNWELL COUNTY**

**WELL NUMBER:** BRN-0351

**LATITUDE:** 33° 10' 45"

**GRID NUMBER:** 34Y-x3

**LONGITUDE:** 81° 18' 51"

**LOCATION:** Barnwell, 4 miles southeast (S.C. Highway 300).

**AQUIFER:** Floridan (Upper Three Runs).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 95 ft. Screened from 80 to 90 ft.

**LAND SURFACE ELEVATION:** 207.3 ft above National Geodetic Vertical Datum of 1929.

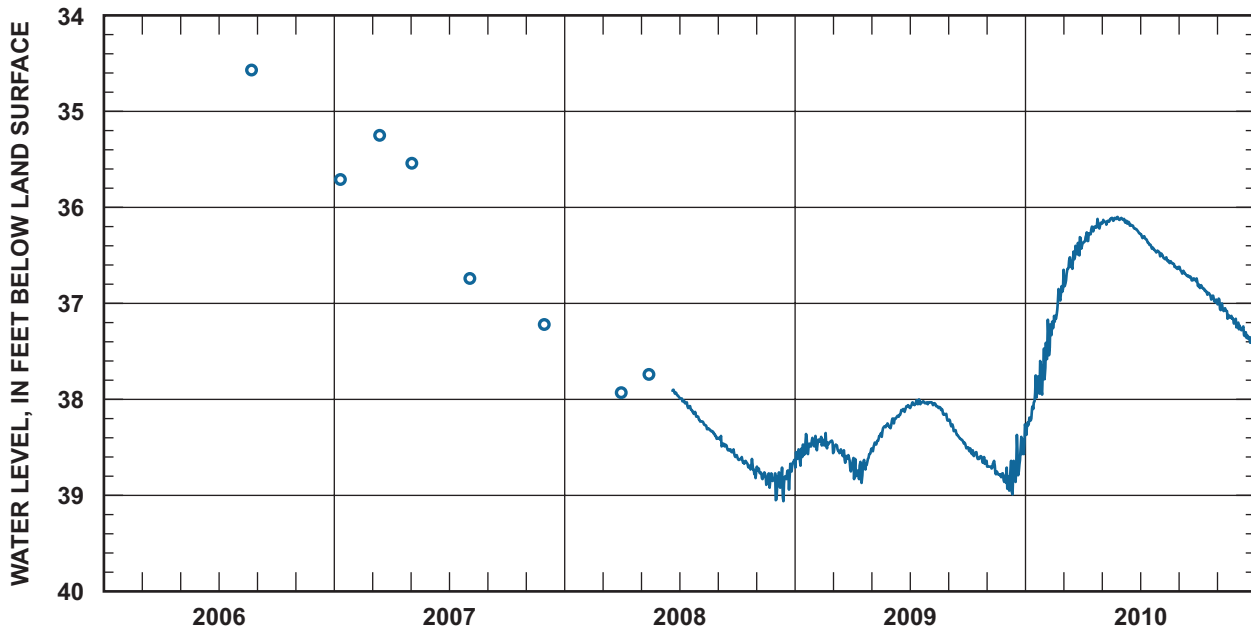
**MEASURING POINT:** Port in sanitary seal, 2.75 ft above land surface.

**PERIOD OF RECORD:** April 1988 to current year.

**EXTREMES:** Highest water level: 23.93 ft below land surface, May 12, 1993.

Lowest water level: 39.06 ft below land surface, December 13, 2008.

**REMARKS:** Well-cluster site C-6. One of eight wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2006</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b> LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b> HIGH	--	--	--	--	--	--	37.98	38.21	38.38	38.60	38.70	38.63	--
<b>2008</b> MEAN	--	--	--	--	--	--	38.08	38.30	38.50	38.67	38.80	38.81	--
<b>2008</b> LOW	--	--	--	--	--	--	38.18	38.41	38.60	38.82	38.92	39.06	--
<b>2009</b> HIGH	38.36	38.35	38.45	38.56	38.25	38.06	38.00	38.03	38.21	38.50	38.64	38.26	38.00 (Jul 16)
<b>2009</b> MEAN	38.52	38.44	38.57	38.70	38.38	38.15	38.04	38.09	38.37	38.59	38.75	38.68	38.44
<b>2009</b> LOW	38.71	38.53	38.75	38.87	38.54	38.30	38.09	38.22	38.51	38.67	38.86	38.99	38.99 (Dec 11)
<b>2010</b> HIGH	37.47	36.82	36.31	36.12	36.10	36.11	36.27	36.47	36.62	36.80	36.95	37.20	36.10 (May 26)†
<b>2010</b> MEAN	37.99	37.19	36.56	36.26	36.13	36.18	36.38	36.56	36.71	36.89	37.09	37.33	36.77
<b>2010</b> LOW	38.37	37.67	36.85	36.38	36.18	36.27	36.47	36.64	36.77	36.99	37.21	37.45	38.37 (Jan 2)

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-0101

**LATITUDE:** 32° 10' 08"

**GRID NUMBER:** 27KK-y1

**LONGITUDE:** 80° 44' 26"

**LOCATION:** Hilton Head Island (U.S. Highway 278).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 8-inch diameter observation well. Depth: 442 ft. Open hole below 129 ft.

**LAND SURFACE ELEVATION:** 14.31 ft above National Geodetic Vertical Datum of 1929.

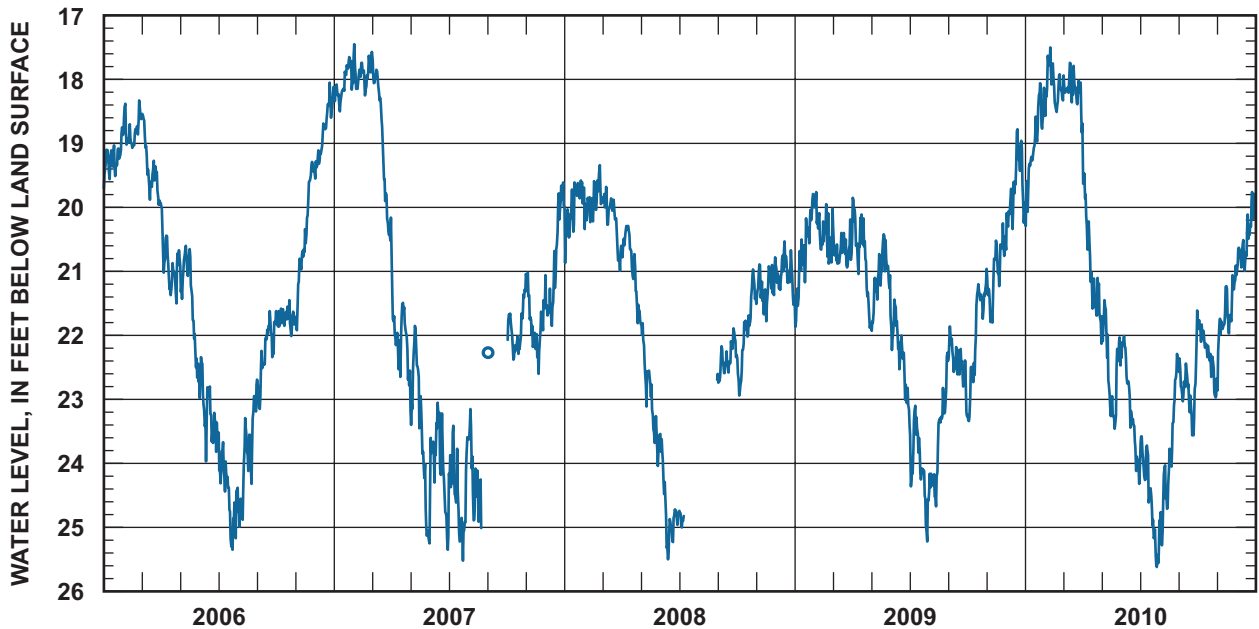
**MEASURING POINT:** Port in base of enclosure, 3.26 ft above land surface.

**PERIOD OF RECORD:** January 1955 to current year.

**EXTREMES:** Highest water level: 12.29 ft below land surface, July 5, 1961.

Lowest water level: 30.42 ft below land surface, July 12, 1990.

**REMARKS:** Monitored continuously by USGS until September 2001, then by DNR to current year. Water levels are influenced by tides. Manual measurement not corrected for tidal influence.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	18.75	18.33	18.54	19.93	20.60	22.33	23.52	22.77	21.62	21.45	19.29	18.05	18.05 (Dec 25)
	MEAN	19.23	18.80	19.34	20.83	21.38	23.15	24.42	23.93	22.27	21.72	20.43	18.82	21.19
	LOW	19.70	19.07	19.95	21.49	22.72	23.96	25.35	24.99	23.15	22.01	21.92	19.55	25.35 (Jul 24)
<b>2007</b>	HIGH	17.65	17.45	17.57	20.16	21.85	23.05	23.41	23.15*	--	21.28	21.02	19.61	17.45 (Feb 2)
	MEAN	18.07	17.91	18.85	21.91	23.37	24.01	24.51	24.21*	--	21.91	21.81	20.84	21.58
	LOW	18.50	18.25	20.52	22.78	25.19	25.35	25.52	25.01*	--	22.38	22.60	21.85	25.52 (Jul 24)
<b>2008</b>	HIGH	19.58	19.34	19.68	20.29	21.81	23.54	--	--	21.89	20.97	20.78	20.53	19.34 (Feb 26)
	MEAN	19.98	19.89	20.18	20.87	22.91	24.71	--	--	22.36	21.92	21.23	21.04	21.51
	LOW	20.87	20.34	20.99	21.81	24.04	25.50	--	--	22.74	22.94	21.78	21.52	25.50 (Jun 13)
<b>2009</b>	HIGH	19.79	19.76	20.02	19.85	20.42	21.44	23.10	22.27	21.86	20.96	20.25	18.78	18.78 (Dec 19)
	MEAN	20.66	20.38	20.64	20.70	21.10	22.26	24.02	23.64	22.44	21.99	20.99	19.71	21.54
	LOW	21.87	20.88	20.94	21.88	21.93	23.16	25.22	24.67	23.26	23.34	21.80	20.66	25.22 (Jul 29)
<b>2010</b>	HIGH	18.06	17.50	17.74	18.69	21.45	22.01	23.58	22.29	21.61	21.76	20.91	19.76	17.50 (Feb 9)
	MEAN	18.97	18.08	18.16	20.81	22.48	23.05	24.52	23.89	22.82	22.28	21.66	20.50	21.44
	LOW	20.29	18.57	18.83	21.79	23.46	24.32	25.62	25.28	23.56	22.97	22.86	21.06	25.62 (Jul 28)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-0429

**LATITUDE:** 32° 15' 51"

**GRID NUMBER:** 28JJ-y1

**LONGITUDE:** 80° 49' 11"

**LOCATION:** Bluffton, 2 miles northeast (Victoria Bluff Wildlife Management Area).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 300 ft. Open hole below 119 ft.

**LAND SURFACE ELEVATION:** 21.56 ft above National Geodetic Vertical Datum of 1929.

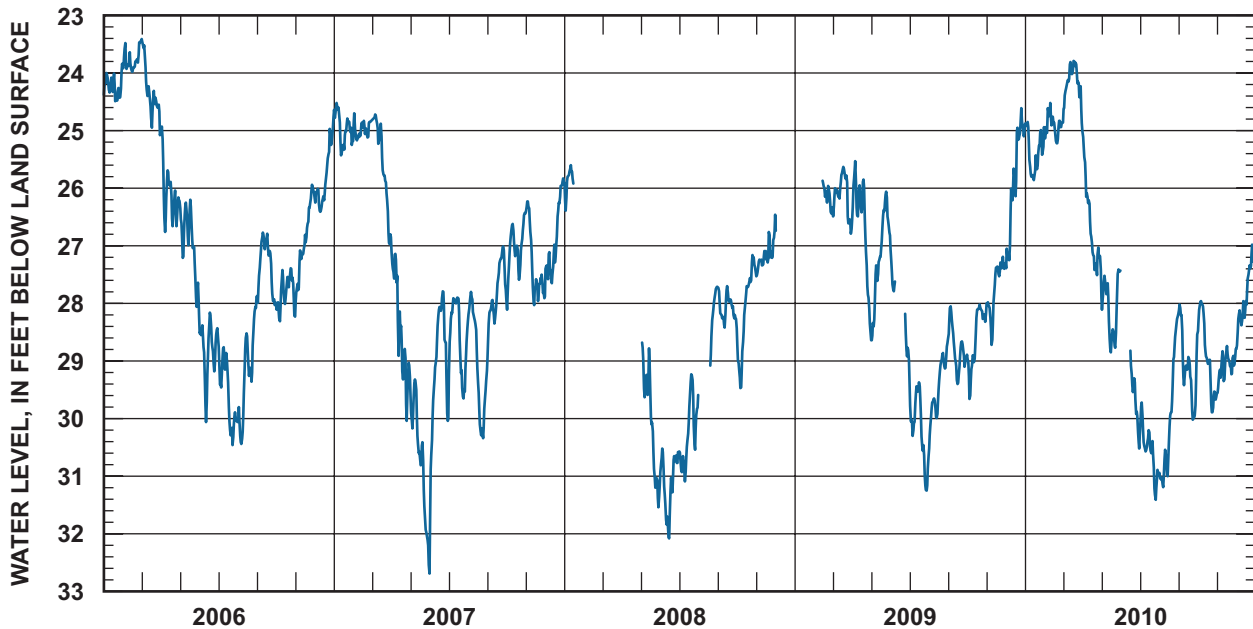
**MEASURING POINT:** Port in base of enclosure, 1.85 ft above land surface.

**PERIOD OF RECORD:** August 1970 to current year.

**EXTREMES:** Highest water level: 21.71 ft below land surface, September 10, 1971.

Lowest water level: 32.69 ft below land surface, June 1, 2007.

**REMARKS:** Monitored continuously by USGS until September 2001, then by DNR to current year. Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	23.84	23.45	23.41	24.92	26.20	28.16	28.61	27.89	26.76	27.38	25.94	24.76	23.41 (Mar 2)
	MEAN	24.22	23.78	24.28	26.04	26.89	28.77	29.52	29.21	27.32	27.80	26.88	25.80	26.71
	LOW	24.49	23.97	25.08	26.75	28.05	30.05	30.46	30.43	28.03	28.31	27.95	26.40	30.46 (Jul 24)
<b>2007</b>	HIGH	24.52	24.69	24.72	26.85	29.28	27.79	27.90	27.80	27.01	26.43	26.23	25.83	24.52 (Jan 5)
	MEAN	24.95	24.98	25.61	28.37	30.62	29.14	28.63	29.02	27.80	27.07	27.32	26.89	27.53
	LOW	25.42	25.16	26.97	30.04	32.54	32.69	30.00	30.34	28.94	28.11	28.03	27.88	32.69 (Jun 1)
<b>2008</b>	HIGH	--	--	--	--	28.68	30.52	29.23	--	27.70	27.16	26.46	--	--
	MEAN	--	--	--	--	30.07	31.11	30.23	--	28.08	28.10	27.15	--	--
	LOW	--	--	--	--	31.54	32.08	31.09	--	28.43	29.47	27.51	--	--
<b>2009</b>	HIGH	--	25.87*	25.63	25.53	26.06	--	29.37	28.62	28.05	28.00	27.19	24.61	24.61 (Dec 25)
	MEAN	--	26.12*	26.12	26.61	27.19	--	30.17	29.44	28.79	28.57	27.71	25.81	27.65
	LOW	--	26.44*	26.79	28.48	28.64	--	31.25	30.52	29.40	29.66	28.72	27.39	31.25 (Jul 28)
<b>2010</b>	HIGH	24.85	24.52	23.79	25.01	27.41	--	29.72	28.18	28.02	27.96	28.74	26.98	23.79 (Mar 18)
	MEAN	25.36	24.90	24.18	26.60	28.05	--	30.55	29.99	29.10	28.91	29.08	27.85	27.69
	LOW	25.86	25.22	24.87	27.51	28.85	--	31.41	31.19	30.02	29.89	29.55	28.79	31.41 (Jul 26)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1809

**LATITUDE:** 32° 16' 02"

**GRID NUMBER:** 27JJ-q2

**LONGITUDE:** 80° 43' 22"

**LOCATION:** Hilton Head Island (Hilton Head Plantation).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 903 ft. Open hole below 227 ft.

**LAND SURFACE ELEVATION:** 11.75 ft above National Geodetic Vertical Datum of 1929.

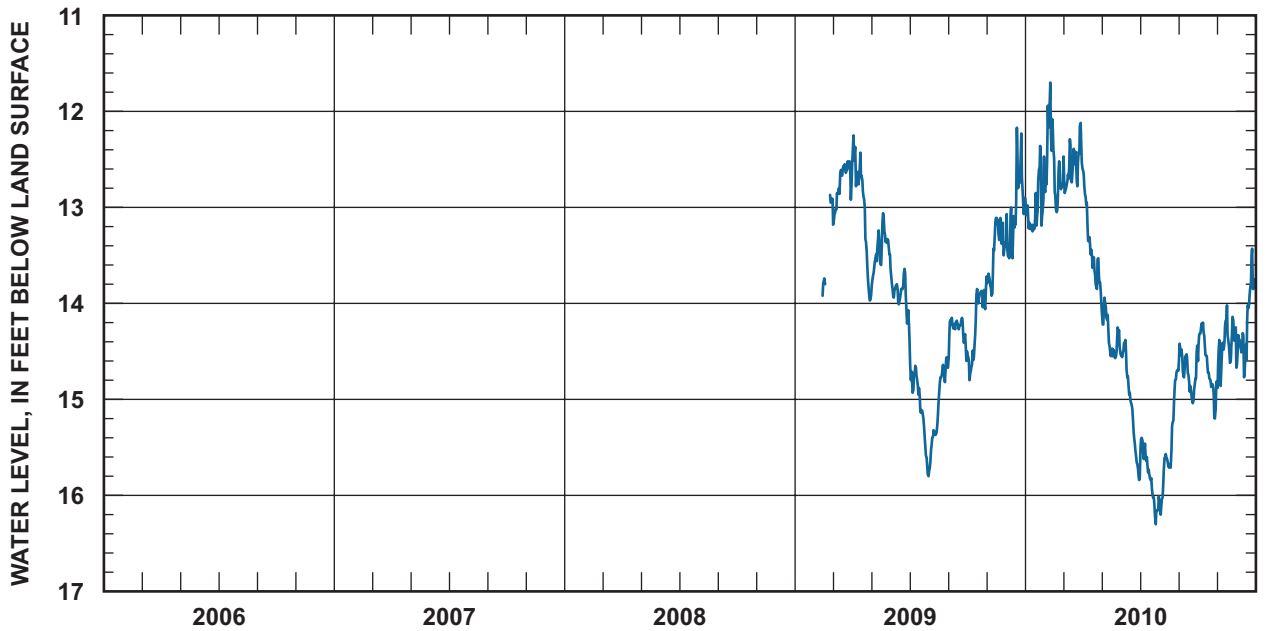
**MEASURING POINT:** Top of casing, 1.25 ft above land surface.

**PERIOD OF RECORD:** August 1986 to September 1994, then February 2009 to current year.

**EXTREMES:** Highest water level: 11.70 ft below land surface, February 9, 2010.

Lowest water level: 16.30 ft below land surface, July 26, 2010.

**REMARKS:** Monitored by USGS until September 1994, then by DNR from February 2009 to current year.  
Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2007</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2008</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2009</b>	HIGH --	FEB --	12.52	12.25	13.06	13.64	14.41	14.56	14.15	13.72	13.11	12.17	12.17 (Dec 18)
	MEAN --	FEB --	12.75	12.96	13.46	13.89	15.05	15.07	14.27	14.20	13.45	13.02	13.81
	LOW --	FEB --	13.18	13.97	13.91	14.22	15.80	15.74	14.60	14.80	13.92	13.53	15.80 (Jul 31)
<b>2010</b>	HIGH 12.36	11.70	12.12	12.59	13.94	14.38	15.40	14.69	14.42	14.20	14.02	13.43	11.70 (Feb 9)
	MEAN 13.00	12.53	12.57	13.37	14.32	15.02	15.81	15.48	14.72	14.63	14.42	14.20	14.17
	LOW 13.25	13.05	12.85	13.89	14.57	15.84	16.30	16.20	15.04	15.20	14.88	14.77	16.30 (Jul 26)

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1813

**LATITUDE:** 32° 13' 59"

**GRID NUMBER:** 27KK-j5

**LONGITUDE:** 80° 40' 37"

**LOCATION:** Hilton Head Island (Fort Walker at Port Royal Plantation).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 600 ft. Open hole below 276 ft.

**LAND SURFACE ELEVATION:** 11.42 ft above National Geodetic Vertical Datum of 1929.

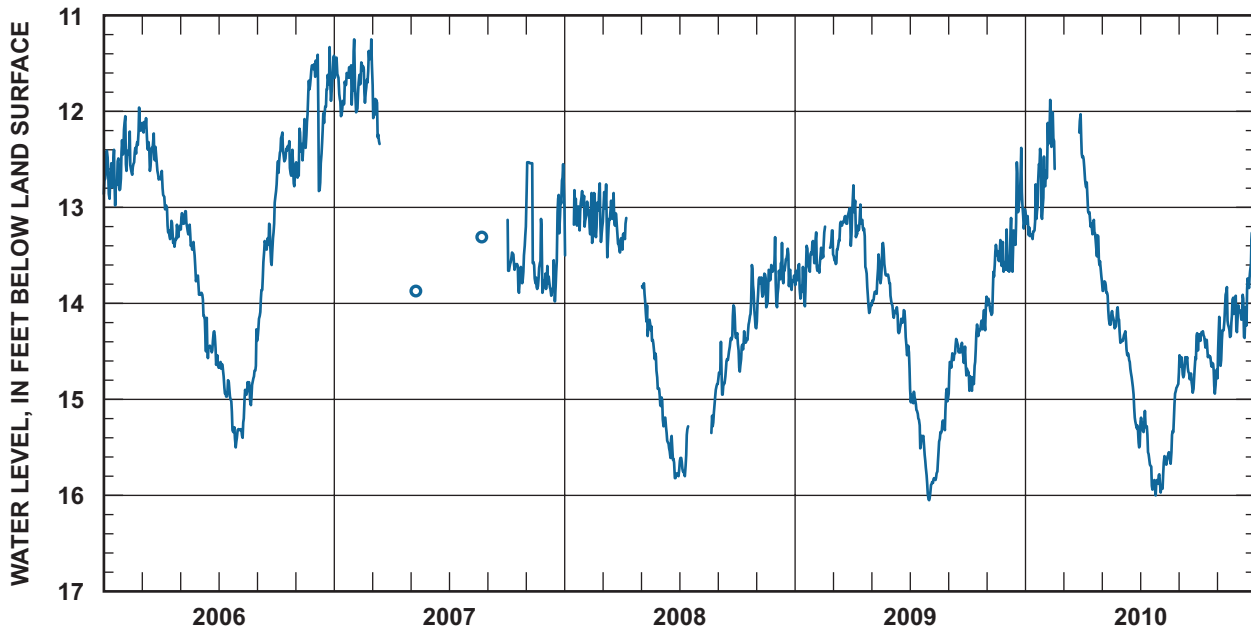
**MEASURING POINT:** Port in PVC instrument support, 0.20 ft above land surface.

**PERIOD OF RECORD:** July 1991 to November 1993, then October 2001 to current year.

**EXTREMES:** Highest water level: 11.25 ft below land surface, February 2, 2007.

Lowest water level: 16.87 ft below land surface, September 18, 2003.

**REMARKS:** Water levels are influenced by tides. Monitored continuously by USGS until August 2003, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 12.30	11.96	12.07	12.62	13.04	13.89	14.61	14.27	12.88	12.22	11.51	11.33	11.33 (Dec 25)
	MEAN 12.65	12.38	12.38	13.13	13.33	14.29	14.96	15.00	13.58	12.51	12.12	11.91	13.19
	LOW 12.98	12.66	12.71	13.41	13.81	14.64	15.50	15.40	14.39	12.83	12.69	12.83	15.50 (Jul 29)
<b>2007</b>	HIGH 11.42	11.25	--	--	--	--	--	--	--	13.13	12.53	12.55	--
	MEAN 11.71	11.65	--	--	--	--	--	--	--	13.60	13.28	13.46	--
	LOW 12.05	12.01	--	--	--	--	--	--	--	13.89	13.89	13.98	--
<b>2008</b>	HIGH 12.82*	12.75	12.76	--	13.79	14.98	--	--	14.02	13.60	13.31	13.37	--
	MEAN 13.04*	13.09	13.15	--	14.33	15.46	--	--	14.53	14.27	13.77	13.70	--
	LOW 13.50*	13.37	13.52	--	14.96	15.82	--	--	14.95	14.71	14.19	14.04	--
<b>2009</b>	HIGH 13.35	13.20*	13.01	12.77	13.37	13.92	14.68	14.89	14.37	13.93	13.34	12.38	12.38 (Dec 25)
	MEAN 13.66	13.46*	13.27	13.36	13.74	14.20	15.30	15.54	14.55	14.45	13.69	13.18	14.03
	LOW 14.03	13.68*	13.59	14.10	14.02	14.54	16.04	16.05	14.94	14.91	14.12	13.67	16.05 (Aug 1)
<b>2010</b>	HIGH 12.39	11.88*	--	12.47	13.72	14.29	15.12	14.84	14.31	14.29	13.83	13.26	11.88 (Feb 9)
	MEAN 13.02	12.34*	--	13.11	14.05	14.76	15.58	15.48	14.67	14.52	14.21	13.91	14.15
	LOW 13.33	12.78*	--	13.65	14.41	15.50	16.00	15.97	14.93	14.94	14.78	14.36	16.00 (Jul 26)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.



**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1814

**LATITUDE:** 32° 13' 59"

**GRID NUMBER:** 27KK-j6

**LONGITUDE:** 80° 40' 37"

**LOCATION:** Hilton Head Island (Fort Walker at Port Royal Plantation).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 210 ft. Open hole below 120 ft.

**LAND SURFACE ELEVATION:** 12 ft (map estimate) above National Geodetic Vertical Datum of 1929.

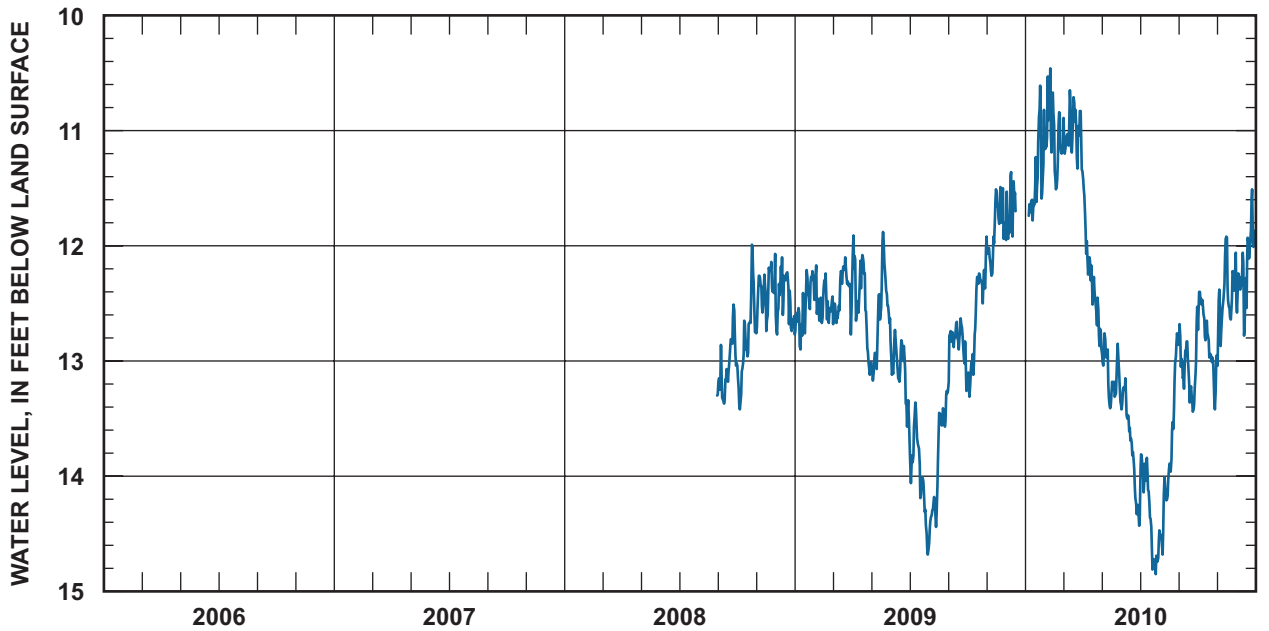
**MEASURING POINT:** Port in PVC instrument support, 0.25 ft above land surface.

**PERIOD OF RECORD:** October 1986 to April 1999, then August 2008 to current year.

**EXTREMES:** Highest water level: 10.46 ft below land surface, February 9, 2010.

Lowest water level: 16.91 ft below land surface, July 1, 1998.

**REMARKS:** Water levels are influenced by tides. Monitored by USGS until April 1999, then by DNR from August 2008 to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	--	--	--	--	--	--	12.51	11.99	12.07	12.10	--	
	MEAN	--	--	--	--	--	--	--	13.03	12.82	12.38	12.47	--	
	LOW	--	--	--	--	--	--	--	13.37	13.42	12.74	12.77	--	
<b>2009</b>	HIGH	12.21	12.17	12.10	11.91	11.88	12.73	13.36	13.26	12.63	11.92	11.49	--	11.49 (Nov 22)
	MEAN	12.52	12.48	12.41	12.46	12.61	13.09	13.98	13.86	12.84	12.61	11.86	--	12.79
	LOW	12.90	12.67	12.77	13.12	13.17	13.57	14.68	14.58	13.26	13.31	12.26	--	14.68 (Jul 30)
<b>2010</b>	HIGH	10.61	10.46	10.65	11.35	12.76	13.15	13.81	12.76	12.53	12.40	11.92	11.51	10.46 (Feb 9)
	MEAN	11.39	11.03	11.02	12.23	13.11	13.71	14.32	13.84	13.06	12.81	12.43	12.17	12.59
	LOW	11.78	11.51	11.34	12.87	13.41	14.43	14.85	14.68	13.44	13.42	13.04	12.78	14.85 (Jul 25)

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1820

**LATITUDE:** 32° 12' 14"

**GRID NUMBER:** 27KK-o10

**LONGITUDE:** 80° 44' 59"

**LOCATION:** Hilton Head Island (Indigo Run Plantation).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 600 ft. Open hole below 316 ft.

**LAND SURFACE ELEVATION:** 9.8 ft above National Geodetic Vertical Datum of 1929.

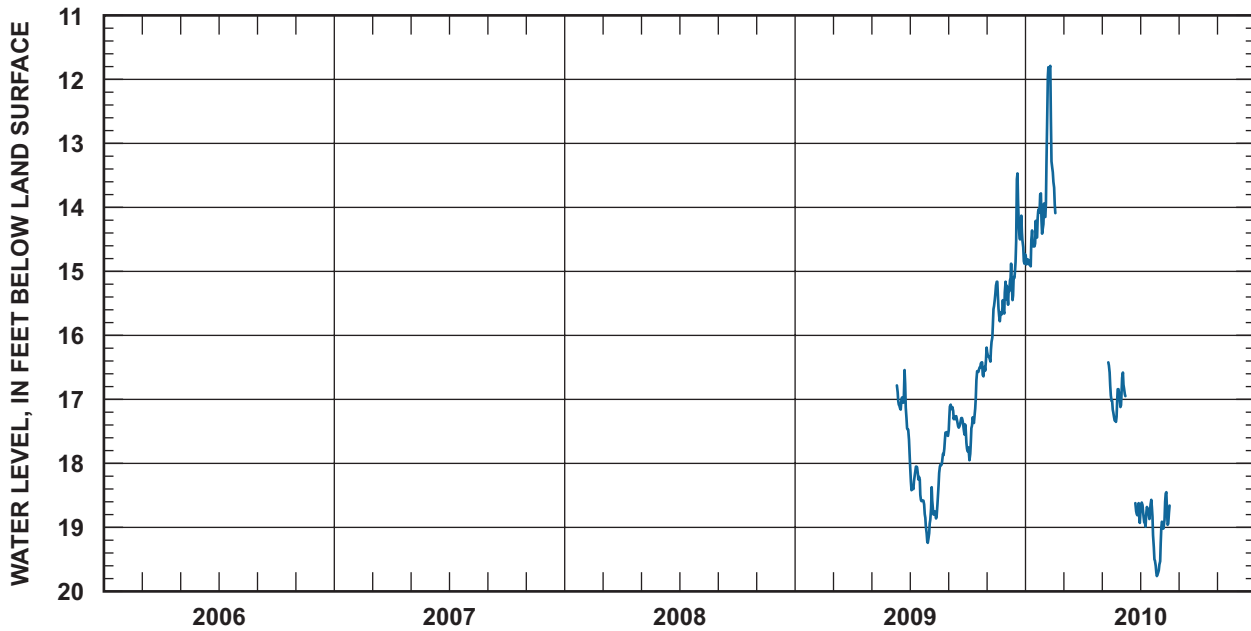
**MEASURING POINT:** Port in PVC instrument support, 0.82 ft above land surface.

**PERIOD OF RECORD:** February 1992 to November 1993, then June 2009 to current year.

**EXTREMES:** Highest water level: 11.79 ft below land surface, February 9, 2010.

Lowest water level: 19.76 ft below land surface, July 28, 2010.

**REMARKS:** Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b>	HIGH	--	--	--	--	16.54*	17.85	17.51	17.08	16.19	15.16	13.47	--
	MEAN	--	--	--	--	17.10*	18.48	18.28	17.34	16.96	15.73	14.79	--
	LOW	--	--	--	--	17.63*	19.24	19.09	17.77	17.95	16.41	15.52	--
<b>2010</b>	HIGH	13.78	11.79*	--	--	16.42*	--	18.57	18.45*	--	--	--	--
	MEAN	14.44	13.03*	--	--	16.99*	--	19.02	18.92*	--	--	--	--
	LOW	14.92	14.15*	--	--	17.35*	--	19.76	19.58*	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1822

**LATITUDE:** 32° 12' 14"

**GRID NUMBER:** 27KK-o11

**LONGITUDE:** 80° 44' 58"

**LOCATION:** Hilton Head Island (Indigo Run Plantation).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 260 ft. Open hole below 91 ft.

**LAND SURFACE ELEVATION:** 9.6 ft above National Geodetic Vertical Datum of 1929.

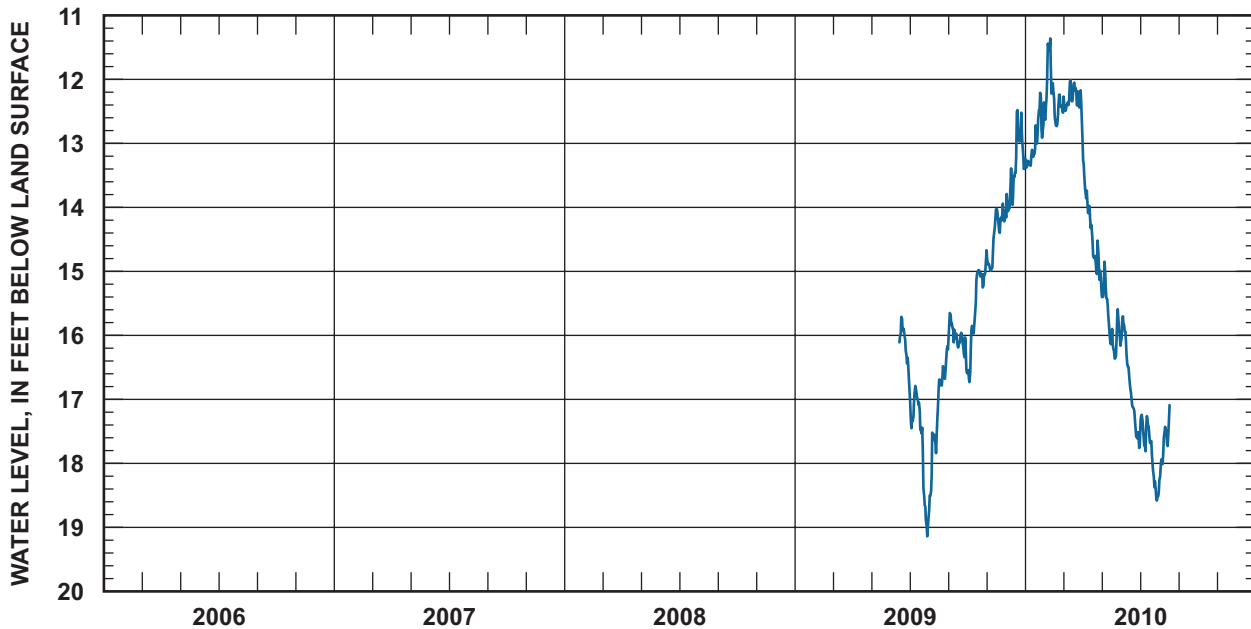
**MEASURING POINT:** Port in PVC instrument support, 0.61 ft above land surface.

**PERIOD OF RECORD:** February 1992 to November 1993, then June 2009 to current year.

**EXTREMES:** Highest water level: 11.36 ft below land surface, February 9, 2010.

Lowest water level: 19.14 ft below land surface, July 29, 2009.

**REMARKS:** Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2007</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2008</b>	HIGH --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	MEAN --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
	LOW --	FEB --	MAR --	APR --	MAY --	JUN --	JUL --	AUG --	SEP --	OCT --	NOV --	DEC --	YEAR --
<b>2009</b>	HIGH --	FEB --	MAR --	APR --	MAY --	15.71*	16.79	16.17	15.65	14.67	13.94	12.48	--
	MEAN --	FEB --	MAR --	APR --	MAY --	16.12*	17.65	17.19	16.05	15.52	14.42	13.37	--
	LOW --	FEB --	MAR --	APR --	MAY --	16.71*	19.14	18.73	16.59	16.73	14.99	14.16	--
<b>2010</b>	HIGH 12.21	11.36	12.01	12.88	14.85	15.70	17.24	17.09*	--	--	--	--	--
	MEAN 12.96	12.22	12.30	14.30	15.77	16.73	17.82	17.72*	--	--	--	--	--
	LOW 13.38	12.73	12.61	15.13	16.36	17.76	18.58	18.26*	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1845

**LATITUDE:** 32° 16' 50"

**GRID NUMBER:** 28JJ-p5

**LONGITUDE:** 80° 49' 18"

**LOCATION:** Bluffton, 2.5 miles northeast (Waddell Mariculture Center).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 600 ft. Open hole below 255 ft.

**LAND SURFACE ELEVATION:** 12.27 ft above National Geodetic Vertical Datum of 1929.

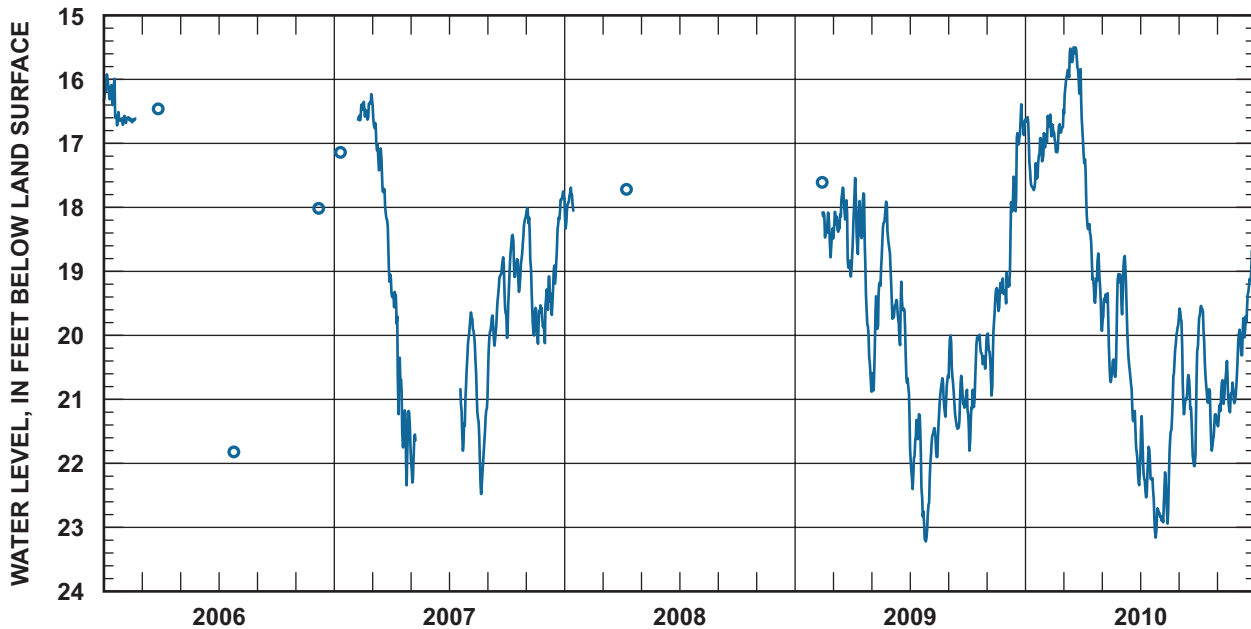
**MEASURING POINT:** Port in PVC instrument support, 2.98 ft above land surface.

**PERIOD OF RECORD:** February 1992 to current year.

**EXTREMES:** Highest water level: 15.50 ft below land surface, March 28, 2005 and March 18, 2010.

Lowest water level: 24.85 ft below land surface, June 18, 2002.

**REMARKS:** Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 15.92	16.57*	--	--	--	--	--	--	--	--	--	--	--
	MEAN 16.35	16.63*	--	--	--	--	--	--	--	--	--	--	--
	LOW 16.72	16.68*	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>	HIGH --	16.35*	16.23	19.11	--	--	--	19.64	18.78	18.17	18.01	17.75	--
	MEAN --	16.49*	17.49	20.59	--	--	--	20.69	19.63	18.91	19.32	18.84	--
	LOW --	16.64*	19.16	22.34	--	--	--	22.48	20.98	20.04	20.13	20.12	--
<b>2008</b>	HIGH --	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN --	--	--	--	--	--	--	--	--	--	--	--	--
	LOW --	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b>	HIGH --	18.08*	17.69	17.54	17.91	18.94	21.23	20.63	20.00	19.99	19.11	16.39	16.39 (Dec 25)
	MEAN --	18.32*	18.30	18.70	19.22	19.81	22.17	21.35	20.90	20.64	19.72	17.69	19.71
	LOW --	18.78*	19.08	20.58	20.88	20.90	23.22	22.61	21.46	21.80	20.94	19.50	23.22 (Jul 27)
<b>2010</b>	HIGH 16.59	16.55	15.50	16.78	19.04	18.76	21.26	19.83	19.58	19.54	20.40	18.67	15.50 (Mar 18)†
	MEAN 17.23	16.85	15.92	18.49	19.87	20.51	22.29	21.71	20.89	20.68	20.95	19.65	19.59
	LOW 17.73	17.14	16.74	19.49	20.73	22.34	23.16	22.94	22.04	21.80	21.42	20.79	23.16 (Jul 26)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**BEAUFORT COUNTY**

**WELL NUMBER:** BFT-1846

**LATITUDE:** 32° 16' 50"

**GRID NUMBER:** 28JJ-p6

**LONGITUDE:** 80° 49' 18"

**LOCATION:** Bluffton, 2.5 miles northeast (Waddell Mariculture Center).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 180 ft. Open hole below 85 ft.

**LAND SURFACE ELEVATION:** 12.23 ft above National Geodetic Vertical Datum of 1929.

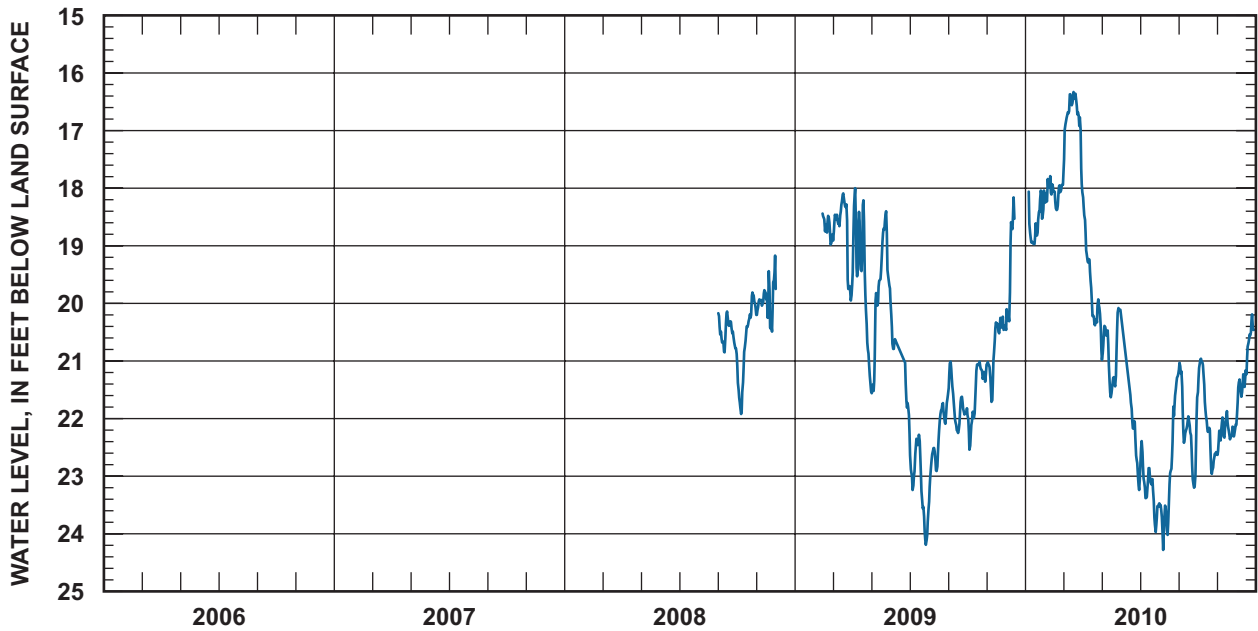
**MEASURING POINT:** Port in PVC instrument support, 3.10 ft above land surface.

**PERIOD OF RECORD:** February 1992 to March 1998, then August 2008 to current year.

**EXTREMES:** Highest water level: 15.39 ft below land surface, May 21, 1997.

Lowest water level: 24.28 ft below land surface, August 7, 2010.

**REMARKS:** Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2008</b>	HIGH	--	--	--	--	--	--	--	20.14	19.81	19.17	--	--	
	MEAN	--	--	--	--	--	--	--	20.51	20.70	19.95	--	--	
	LOW	--	--	--	--	--	--	--	20.88	21.92	20.49	--	--	
<b>2009</b>	HIGH	--	18.44*	18.09	18.00	18.40	--	22.27	21.59	21.01	21.01	20.23	--	
	MEAN	--	18.66*	18.75	19.43	19.81	--	23.10	22.34	21.75	21.55	20.73	--	
	LOW	--	18.98*	19.95	21.38	21.56	--	24.19	23.44	22.25	22.54	21.71	--	
<b>2010</b>	HIGH	18.04	17.79	16.33	18.07	20.08	--	22.39	21.22	21.03	20.96	21.87	20.19	16.33 (Mar 18)
	MEAN	18.59	18.08	16.81	19.58	20.84	--	23.20	22.92	22.15	21.97	22.22	21.05	20.67
	LOW	18.97	18.38	17.94	20.42	21.63	--	23.97	24.28	23.20	22.96	22.63	22.11	24.28 (Aug 7)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**BERKELEY COUNTY**

**WELL NUMBER:** BRK-0644

**LATITUDE:** 33° 24' 15"

**GRID NUMBER:** 18W-b2

**LONGITUDE:** 79° 56' 02"

**LOCATION:** St. Stephen (St. Stephen Middle School).

**AQUIFER:** Floridan (Gordon).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 93 ft. Screened from 53 to 93 ft.

**LAND SURFACE ELEVATION:** 75 ft (map estimate) above National Geodetic Vertical Datum of 1929.

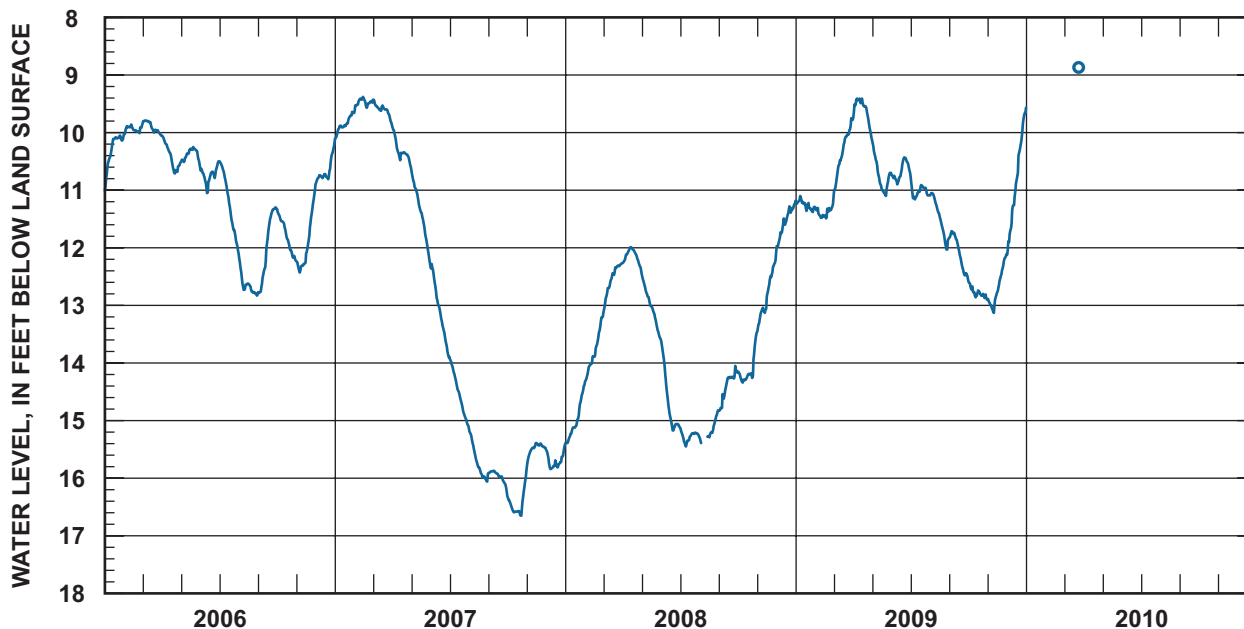
**MEASURING POINT:** Top of gray PVC instrument support, 3.00 ft above land surface.

**PERIOD OF RECORD:** January 2000 to current year.

**EXTREMES:** Highest water level: 8.52 ft below land surface, April 11, 2003.

Lowest water level: 18.03 ft below land surface, July 20, 2002.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	10.03	9.86	9.79	10.05	10.25	10.50	10.50	12.11	11.30	11.33	11.00	10.17	9.79 (Mar 6)†
	MEAN	10.28	9.94	9.90	10.40	10.38	10.74	11.18	12.63	11.97	11.79	11.94	10.67	10.99
	LOW	11.01	10.03	10.05	10.71	10.55	11.05	12.04	12.83	12.78	12.23	12.43	10.90	12.83 (Aug 30)
<b>2007</b>	HIGH	9.64	9.38	9.43	9.87	10.61	12.28	13.89	15.14	15.87	15.88	15.39	15.43	9.38 (Feb 14)
	MEAN	9.85	9.48	9.59	10.29	11.37	13.07	14.51	15.71	15.97	16.44	15.48	15.70	13.12
	LOW	10.10	9.62	9.83	10.56	12.25	13.90	15.09	16.06	16.24	16.65	15.79	15.84	16.65 (Oct 22)†
<b>2008</b>	HIGH	14.39	13.20	12.27	11.99	12.46	13.63	15.13	14.82*	14.05	13.45	12.07	11.18	11.18 (Dec 31)
	MEAN	15.01	13.81	12.55	12.14	13.03	14.69	15.27	15.13*	14.39	14.11	12.79	11.54	13.71
	LOW	15.39	14.32	13.13	12.40	13.59	15.17	15.45	15.39*	14.83	14.34	13.39	11.98	15.45 (Jul 10)
<b>2009</b>	HIGH	11.10	11.24	9.75	9.41	10.14	10.43	10.76	11.05	11.71	12.59	12.11	9.57	9.41 (Apr 7)†
	MEAN	11.26	11.39	10.34	9.60	10.73	10.67	11.02	11.48	12.08	12.78	12.68	10.80	11.24
	LOW	11.38	11.49	11.11	10.09	11.10	10.90	11.16	12.03	12.55	12.90	13.13	12.12	13.13 (Nov 10)
<b>2010</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**CHARLESTON COUNTY**

**WELL NUMBER:** CHN-0044

**LATITUDE:** 32° 47' 48"

**GRID NUMBER:** 19DD-o1

**LONGITUDE:** 80° 04' 13"

**LOCATION:** Charleston (U.S. Department of Agriculture site, U.S. Highway 17).

**AQUIFER:** Floridan and Tertiary sand (Middle Floridan and Gordon).

**WELL CHARACTERISTICS:** 8-inch diameter observation well. Depth: 434 ft. Open hole below 180 ft.

**LAND SURFACE ELEVATION:** 9.4 ft above National Geodetic Vertical Datum of 1929.

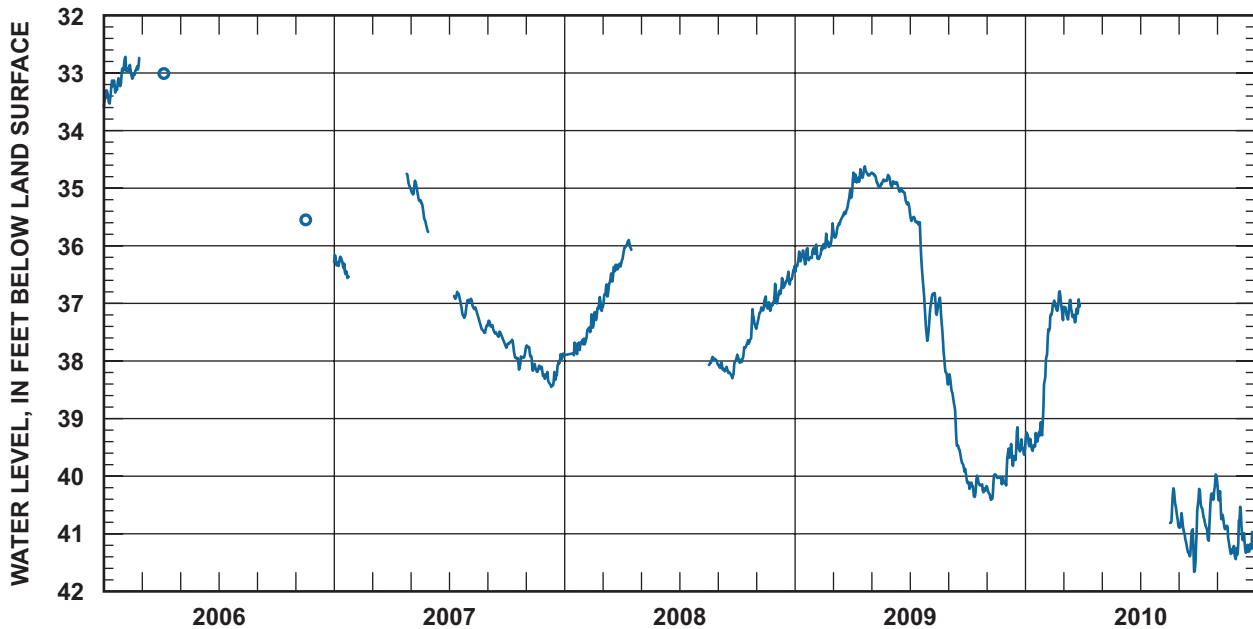
**MEASURING POINT:** Top of polyboard at base of housing, 0.65 ft above land surface.

**PERIOD OF RECORD:** October 1980 to current year.

**EXTREMES:** Highest water level: 13.54 ft below land surface, March 18, 1983.

Lowest water level: 41.66 ft below land surface, September 25, 2010.

**REMARKS:** Monitored continuously by USGS until November 2001, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	32.92	32.72	--	--	--	--	--	--	--	--	--	--	--
MEAN	33.27	32.97	--	--	--	--	--	--	--	--	--	--	--
LOW	33.59	34.05	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>													
HIGH	36.16*	--	--	--	34.87	--	36.80*	36.92*	37.30*	37.63	37.73	37.87	--
MEAN	36.34*	--	--	--	35.24	--	37.00*	37.19*	37.45*	37.86	38.04	38.20	--
LOW	36.56*	--	--	--	35.76	--	37.25*	37.51*	37.58*	38.15	38.27	38.45	--
<b>2008</b>													
HIGH	37.63*	36.89	36.31	35.90*	--	--	--	--	37.93	37.10	36.66	36.35	--
MEAN	37.75*	37.32	36.58	36.04*	--	--	--	--	38.13	37.69	37.07	36.65	--
LOW	37.90*	37.71	37.06	36.25*	--	--	--	--	38.30	38.03	37.38	37.00	--
<b>2009</b>													
HIGH	36.04	35.79	35.03	34.62	34.73	34.88	35.37	36.82	38.23	39.99	39.97	39.15	34.62 (Apr 21)
MEAN	36.20	36.03	35.50	34.79	34.85	35.04	36.17	37.36	39.25	40.18	40.14	39.59	37.09
LOW	36.45	36.23	35.86	35.05	34.99	35.30	37.65	38.41	40.09	40.36	40.41	40.16	40.41 (Nov 7)
<b>2010</b>													
HIGH	38.36	36.79	36.93*	--	--	--	--	--	40.60	39.97	40.17	40.53	--
MEAN	39.27	37.24	37.15*	--	--	--	--	--	41.10	40.52	40.92	41.13	--
LOW	39.56	38.27	37.33*	--	--	--	--	--	41.66	41.12	41.44	41.37	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**CHARLESTON COUNTY**

**WELL NUMBER:** CHN-0484

**LATITUDE:** 32° 34' 53"

**GRID NUMBER:** 22GG-d1

**LONGITUDE:** 80° 18' 20"

**LOCATION:** Edisto Beach, 5 miles north (Blue House Plantation).

**AQUIFER:** Floridan (Gordon confining unit).

**WELL CHARACTERISTICS:** 12-inch diameter unused irrigation well. Depth: 560 ft. Open hole below 280 ft.

**LAND SURFACE ELEVATION:** 14.45 ft above National Geodetic Vertical Datum of 1929.

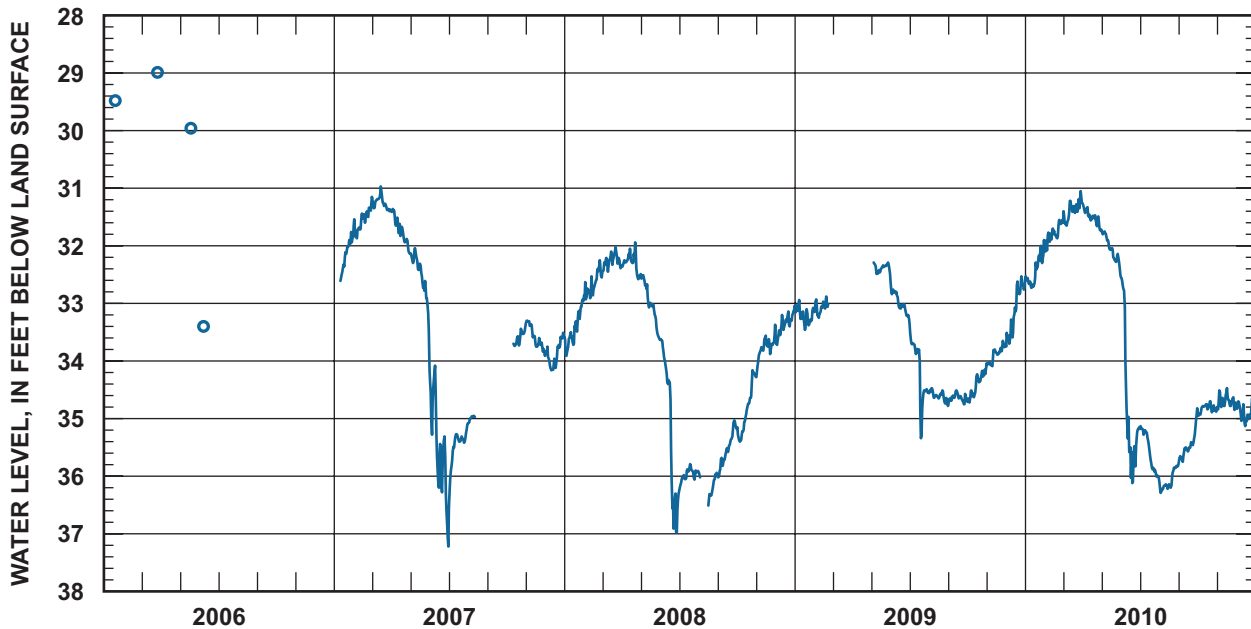
**MEASURING POINT:** Port at base of enclosure, 2.07 ft above land surface.

**PERIOD OF RECORD:** February 2000 to current year.

**EXTREMES:** Highest water level: 20.31 ft below land surface, April 21, 2000.

Lowest water level: 37.22 ft below land surface, July 1, 2007.

**REMARKS:** Water levels are influenced by tides. Manual measurements have not been corrected for tidal influences.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
<b>2007</b>	HIGH	31.76*	31.34	30.97	31.36	32.04	34.08	35.10	--	--	33.40*	33.30	33.51	30.97 (Mar 16)
	MEAN	32.14*	31.57	31.25	31.71	32.48	35.41	35.54	--	--	33.60*	33.57	33.88	33.12
	LOW	32.61*	31.87	31.40	32.12	33.45	37.08	37.22	--	--	33.74*	33.85	34.16	37.22 (Jul 1)
<b>2008</b>	HIGH	32.93	32.25	32.02	31.94	32.49	33.62	35.79	35.94*	35.03	34.16	33.37	33.04	31.94 (Apr 22)
	MEAN	33.45	32.68	32.26	32.29	32.95	35.11	35.98	36.15*	35.52	34.83	33.76	33.36	34.03
	LOW	33.91	32.93	32.45	32.58	33.63	36.97	36.24	36.51*	36.02	35.40	34.19	33.72	36.97 (Jun 26)†
<b>2009</b>	HIGH	32.94	32.88*	--	--	32.29	32.62	33.36	34.47	34.51	34.04	33.65	32.53	32.29 (May 5)†
	MEAN	33.20	33.07*	--	--	32.38	32.98	34.17	34.61	34.64	34.40	33.88	33.11	33.64
	LOW	33.46	33.25*	--	--	32.49	33.26	35.34	34.78	34.75	34.72	34.09	33.75	35.34 (Jul 19)
<b>2010</b>	HIGH	31.90	31.55	31.05	31.26	31.72	32.55	35.13	35.80	34.82	34.70	34.47	34.65	31.05 (Mar 29)
	MEAN	32.43	31.79	31.39	31.49	32.04	34.74	35.56	36.07	35.47	34.82	34.70	34.90	33.78
	LOW	32.73	32.10	31.65	31.73	32.51	36.12	36.03	36.29	35.75	34.95	34.85	35.13	36.29 (Aug 3)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.



**CHARLESTON COUNTY**

**WELL NUMBER:** CHN-0803

**LATITUDE:** 33° 09' 20"

**GRID NUMBER:** 11Z-b1

**LONGITUDE:** 79° 21' 50"

**LOCATION:** McClellanville, 7 miles northeast (Santee Coastal Reserve).

**AQUIFER:** Floridan (Gordon).

**WELL CHARACTERISTICS:** 5-inch diameter observation well. Depth: 112 ft. Screened from 48 to 112 ft.

**LAND SURFACE ELEVATION:** 10.89 ft above National Geodetic Vertical Datum of 1929.

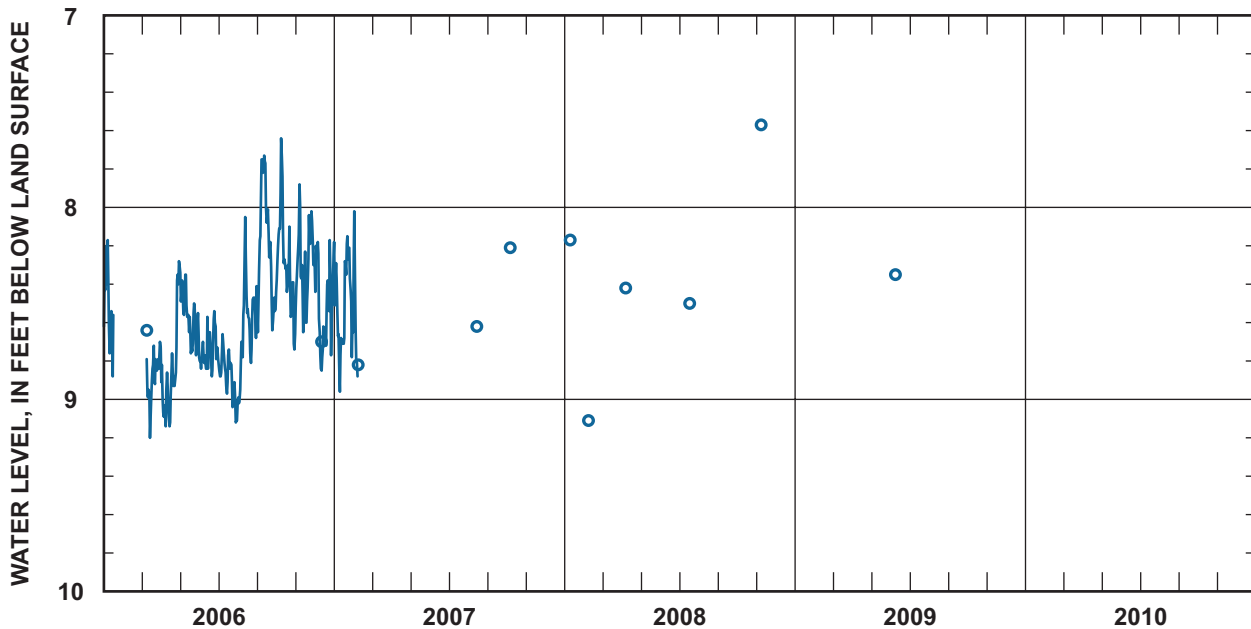
**MEASURING POINT:** Top of casing, 2.46 ft above land surface.

**PERIOD OF RECORD:** June 2000 to current year.

**EXTREMES:** Highest water level: 6.54 ft below land surface, March 30, 2003.

Lowest water level: 9.72 ft below land surface, February 2, 2001.

**REMARKS:** Drilled and cored for DNR/USGS aquifer delineation project. Water levels influenced by tides.  
Manual measurements have not been corrected for tidal influences. Hydraulic connection to the South Santee River.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	--	8.70*	8.28	8.30	8.54	8.66	8.05	7.73	7.64	7.88	8.17	7.46 (Oct 9)
MEAN	--	--	8.89*	8.87	8.56	8.74	8.88	8.63	8.19	8.29	8.29	8.50	8.58
LOW	--	--	9.20*	9.14	8.77	8.88	9.12	9.02	8.65	8.74	8.65	8.85	9.20 (Mar 15)
<b>2007</b>													
HIGH	8.15	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	8.50	--	--	--	--	--	--	--	--	--	--	--	--
LOW	8.96	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2009</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>2010</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**COLLETON COUNTY**

**WELL NUMBER:** COL-0016

**LATITUDE:** 32° 53' 55"

**GRID NUMBER:** 26CC-f1

**LONGITUDE:** 80° 39' 57"

**LOCATION:** Walterboro (Moore Street).

**AQUIFER:** Floridan and Tertiary sand (Middle Floridan and Gordon).

**WELL CHARACTERISTICS:** 6-inch diameter unused public supply well. Depth: 528 ft. Open hole below 68 ft.

**LAND SURFACE ELEVATION:** 61.50 ft above National Geodetic Vertical Datum of 1929.

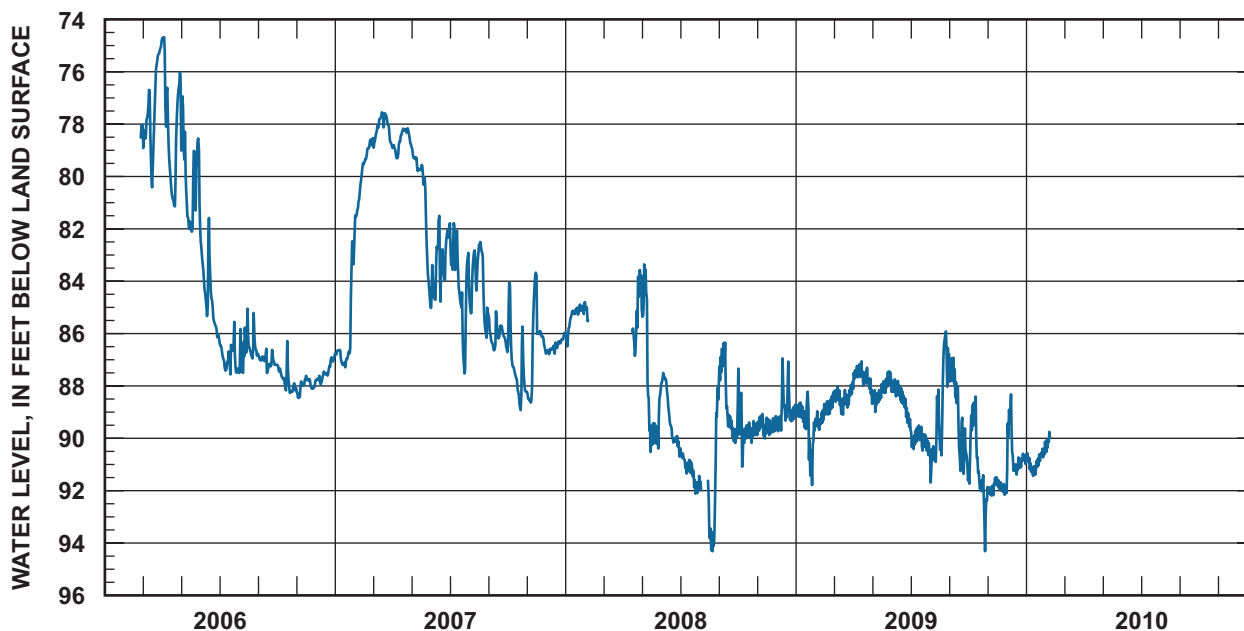
**MEASURING POINT:** Top of sanitary seal, 1.06 ft above land surface.

**PERIOD OF RECORD:** June 1995 to February 2010.

**EXTREMES:** Highest water level: 64.42 ft below land surface, February 16, 1996.

Lowest water level: 94.31 ft below land surface, August 21, 2008 and October 27, 2009.

**REMARKS:** Measurements discontinued in February 2010. Well has been plugged and abandoned.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	--	75.05*	74.68	76.21	81.58	85.55	85.05	86.57	86.28	87.61	86.87	74.68 (Apr 5)
MEAN	--	--	77.22*	77.97	79.95	84.39	86.90	86.60	87.04	87.75	88.00	87.48	84.33
LOW	--	--	80.10*	81.14	82.11	86.14	87.56	87.51	87.51	88.26	88.46	87.94	88.46 (Nov 4)
<b>2007</b>													
HIGH	82.47	78.59	77.55	78.16	78.78	81.50	81.78	82.50	85.15	84.05	83.67	85.98	77.55 (Mar 16)
MEAN	86.16	79.92	78.12	78.62	80.45	83.41	83.90	84.03	86.06	87.23	86.45	86.47	83.40
LOW	87.29	82.05	78.90	79.31	84.61	85.02	87.52	86.16	86.64	88.92	88.64	86.79	88.92 (Oct 22)
<b>2008</b>													
HIGH	84.82	--	--	--	83.36	87.50	90.39	88.02*	86.34	87.34	89.07	86.95	83.36 (May 5)
MEAN	85.35	--	--	--	88.00	89.13	91.20	91.93*	88.60	89.59	89.50	88.88	89.13
LOW	86.49	--	--	--	90.52	90.70	92.11	94.31*	90.18	91.09	90.01	89.73	94.31 (Aug 21)
<b>2009</b>													
HIGH	88.22	88.30	87.85	87.06	87.44	87.75	89.51	85.92	86.92	88.40	91.48	88.32	85.92 (Aug 26)
MEAN	89.47	89.02	88.44	87.65	88.16	88.46	90.04	88.95	89.19	91.04	91.87	90.56	89.40
LOW	91.78	89.68	89.10	88.29	89.00	89.56	90.64	91.69	91.61	94.31	92.19	91.39	94.31 (Oct 27)
<b>2010</b>													
HIGH	90.13	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	90.86	--	--	--	--	--	--	--	--	--	--	--	--
LOW	91.43	--	--	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**COLLETON COUNTY**

**WELL NUMBER:** COL-0097

**LATITUDE:** 33° 02' 52"

**GRID NUMBER:** 26AA-k1

**LONGITUDE:** 80° 35' 51"

**LOCATION:** Walterboro, 10 miles north-northeast (S.C. Highway 61).

**AQUIFER:** Floridan (Middle Floridan and Gordon).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 342 ft. Open hole below 132 ft.

**LAND SURFACE ELEVATION:** 84 ft (map estimate) above National Geodetic Vertical Datum of 1929.

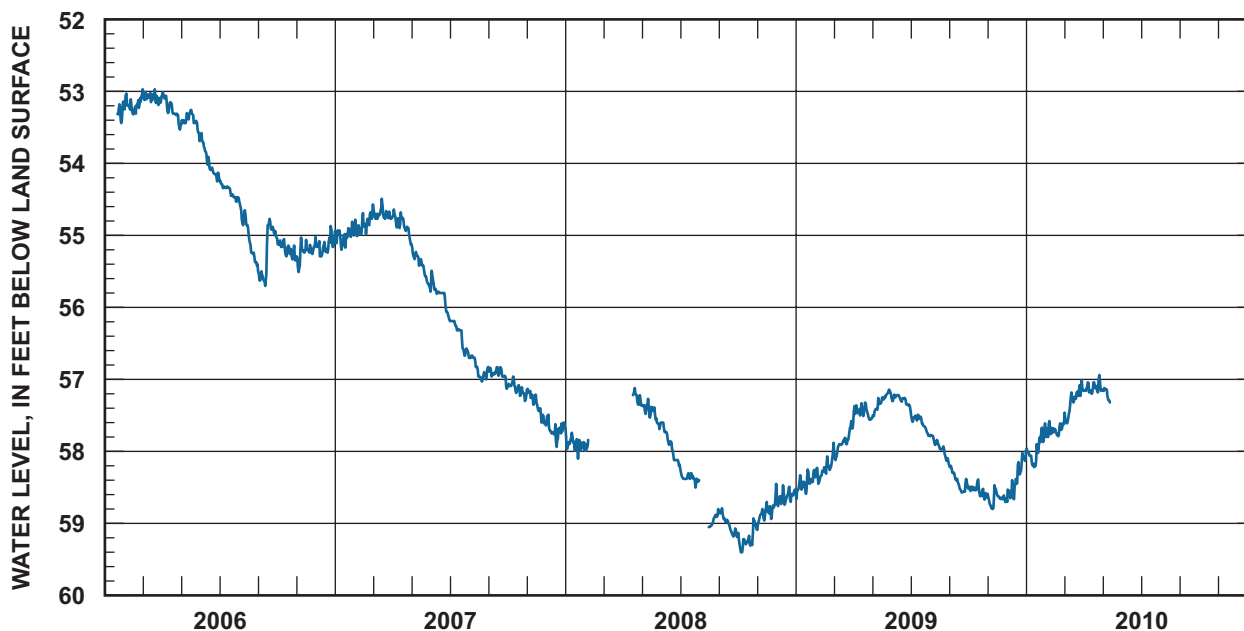
**MEASURING POINT:** Top of sanitary seal, 1.78 ft above land surface.

**PERIOD OF RECORD:** September 1977 to current year.

**EXTREMES:** Highest water level: 36.79 ft below land surface, January 25, 1978.

Lowest water level: 59.40 ft below land surface, October 7, 2008.

**REMARKS:** Monitored continuously by USGS until November 2001, then by DNR to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	53.03	52.97	53.01	53.26	53.58	54.21	54.48	54.77	55.04	55.03	54.87	52.97 (Mar 2)†
MEAN	--	53.19	53.08	53.23	53.41	53.96	54.37	54.98	55.23	55.19	55.23	55.14	54.27
LOW	--	53.32	53.19	53.53	53.69	54.25	54.53	55.42	55.70	55.35	55.51	55.29	55.70 (Sep 12)
<b>2007</b>													
HIGH	54.81	54.68	54.49	54.64	55.12	55.49	56.17	56.67	56.83	56.96	57.13	57.49	54.49 (Mar 16)
MEAN	55.01	54.86	54.70	54.83	55.41	55.81	56.37	56.85	56.92	57.13	57.35	57.70	56.08
LOW	55.20	55.01	54.77	55.08	55.72	56.14	56.67	57.03	57.13	57.30	57.61	57.94	57.94 (Dec 18)
<b>2008</b>													
HIGH	57.68	--	--	--	57.27	57.60	58.25	58.80*	58.79	58.93	58.45	58.47	--
MEAN	57.89	--	--	--	57.46	57.91	58.37	58.95*	59.01	59.21	58.83	58.62	--
LOW	58.10	--	--	--	57.69	58.20	58.50	59.05*	59.19	59.40	59.01	58.76	--
<b>2009</b>													
HIGH	58.25	58.01	57.58	57.32	57.14	57.21	57.44	57.77	58.20	58.39	58.47	57.99	57.14 (May 28)
MEAN	58.44	58.26	57.87	57.46	57.31	57.28	57.60	57.94	58.42	58.54	58.66	58.37	58.01
LOW	58.66	58.45	58.12	57.61	57.53	57.38	57.78	58.18	58.57	58.67	58.80	58.70	58.80 (Nov 8)
<b>2010</b>													
HIGH	57.61	57.58	57.01	56.94	--	--	--	--	--	--	--	--	--
MEAN	57.97	57.70	57.31	57.12	--	--	--	--	--	--	--	--	--
LOW	58.22	57.80	57.62	57.20	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**COLLETON COUNTY**

**WELL NUMBER:** COL-0301

**LATITUDE:** 32° 30' 42"

**GRID NUMBER:** 22GG-w4

**LONGITUDE:** 80° 17' 57"

**LOCATION:** Edisto Beach (Edisto Beach State Park).

**AQUIFER:** Floridan (Gordon confining unit).

**WELL CHARACTERISTICS:** 6-inch diameter unused public supply well. Depth: 545 ft. Open hole below 516 ft.

**LAND SURFACE ELEVATION:** 9.96 ft above National Geodetic Vertical Datum of 1929.

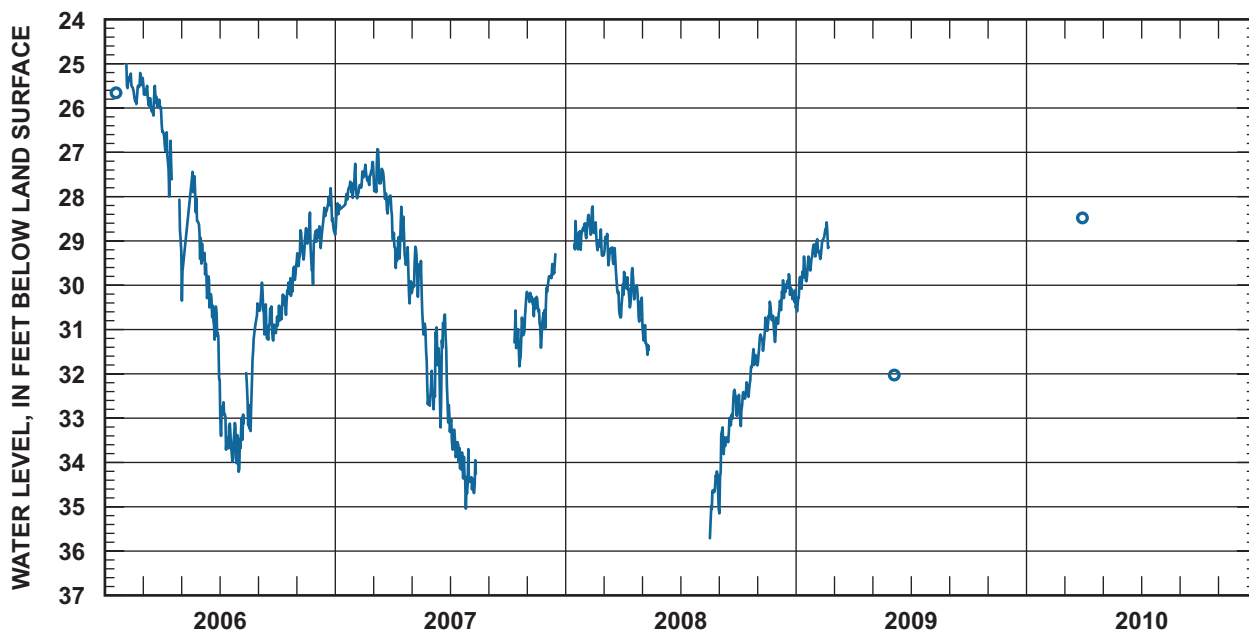
**MEASURING POINT:** Port at base of enclosure, 2.51 ft above land surface.

**PERIOD OF RECORD:** February 2000 to current year.

**EXTREMES:** Highest water level: 19.12 ft below land surface, March 9, 2000.

Lowest water level: 35.71 ft below land surface, August 17, 2008.

**REMARKS:** Water levels are influenced by tides. Specific conductance is also measured at this site.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	--	25.01	25.32	26.38*	--	28.93	32.12	30.41	29.94	29.57	28.36	27.81	25.01 (Feb 4)
MEAN	--	25.50	25.80	27.11*	--	30.14	33.28	32.41	30.75	30.25	29.15	28.55	29.29
LOW	--	25.91	26.17	28.76*	--	31.23	34.02	34.21	31.25	30.91	29.97	29.16	34.21 (Aug 1)
<b>2007</b>													
HIGH	27.66*	27.26	26.93	28.23	29.13	30.66	32.93	--	--	30.23*	30.15	--	--
MEAN	28.07*	27.62	27.72	29.20	30.56	31.91	33.83	--	--	31.08*	30.55	--	--
LOW	28.86*	28.04	28.38	30.41	32.72	33.21	35.04	--	--	31.83*	31.41	--	--
<b>2008</b>													
HIGH	28.55*	28.22	28.84	29.61	--	--	--	--	32.36	31.44	30.37	29.75	--
MEAN	28.88*	28.82	29.62	30.15	--	--	--	--	33.25	32.24	31.01	30.25	--
LOW	29.20*	29.33	30.73	30.82	--	--	--	--	35.15	33.18	31.75	30.87	--
<b>2009</b>													
HIGH	29.08	28.58*	--	--	--	--	--	--	--	--	--	--	--
MEAN	29.72	29.05*	--	--	--	--	--	--	--	--	--	--	--
LOW	30.59	29.41*	--	--	--	--	--	--	--	--	--	--	--
<b>2010</b>													
HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**HAMPTON COUNTY**

**WELL NUMBER:** HAM-0083

**LATITUDE:** 32° 41' 52"

**GRID NUMBER:** 29EE-s1

**LONGITUDE:** 80° 51' 03"

**LOCATION:** Yemassee (near intersection of Old Salkehatchie Highway and North Church Street).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 4-inch diameter observation well. Depth: 113 ft. Open hole below 85 ft.

**LAND SURFACE ELEVATION:** 45 ft (map estimate) above National Geodetic Vertical Datum of 1929.

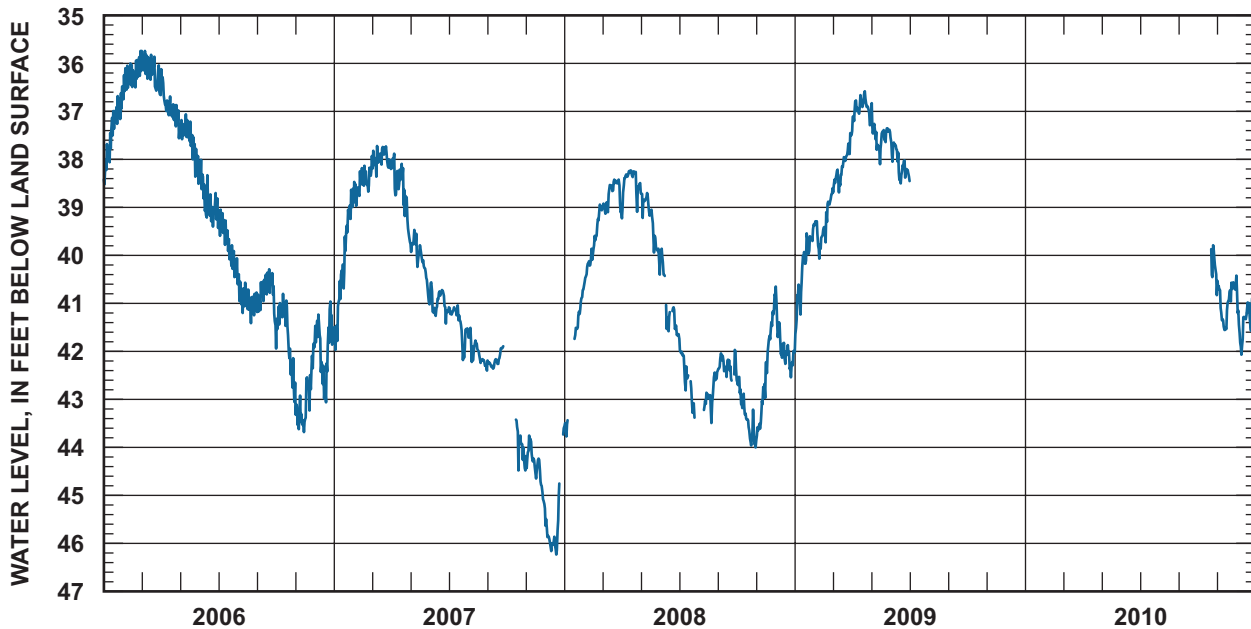
**MEASURING POINT:** Top of plywood instrument support, 2.05 ft above land surface.

**PERIOD OF RECORD:** February 1976 to December 2009, then October 2010 to current year.

**EXTREMES:** Highest water level: 32.05 ft below land surface, May 22, 1980.

Lowest water level: 46.23 ft below land surface, December 19, 2007.

**REMARKS:** Monitored by USGS until December 2009, then by DNR from October 2010 to current year.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH 36.48	35.74	35.74	36.12	37.06	38.01	39.05	40.39	40.29	40.80	41.83	40.96	35.74 (Feb 28)†
	MEAN 37.38	36.24	36.14	36.88	37.60	38.79	39.71	40.90	40.77	41.66	42.99	41.90	39.25
	LOW 38.52	36.75	36.65	37.56	38.51	39.40	40.45	41.41	41.46	43.05	43.68	43.06	43.68 (Nov 14)
<b>2007</b>	HIGH 38.61	38.13	37.72	37.88	39.47	40.56	41.04	41.51	41.89	43.42	43.75	43.60	37.72 (Mar 10)
	MEAN 40.18	38.52	37.97	38.59	40.05	40.96	41.39	42.01	42.17	43.95	44.40	45.63	41.32
	LOW 41.97	38.97	38.36	39.62	40.96	41.42	42.18	42.40	42.36	44.48	45.18	46.23	46.23 (Dec 19)
<b>2008</b>	HIGH 40.71	38.94	38.42	38.23	38.70	39.86	41.74	42.40	41.97	42.53	40.81	40.65	38.23 (Apr 15)
	MEAN 41.89	39.82	38.73	38.46	39.27	41.03	42.50	42.86	42.30	43.34	42.38	41.90	41.21
	LOW 43.77	40.62	39.13	39.23	40.40	41.67	43.38	43.49	42.61	44.00	43.75	42.54	44.00 (Oct 30)
<b>2009</b>	HIGH 39.35	38.72	37.45	36.58	36.83	37.55	38.45	--	--	--	--	--	--
	MEAN 40.22	39.35	38.14	36.93	37.49	38.05	38.45	--	--	--	--	--	--
	LOW 41.64	40.07	38.69	37.41	38.10	38.50	38.45	--	--	--	--	--	--
<b>2010</b>	HIGH --	--	--	--	--	--	--	--	--	--	40.53	40.42	--
	MEAN --	--	--	--	--	--	--	--	--	--	40.96	41.24	--
	LOW --	--	--	--	--	--	--	--	--	--	41.55	42.07	--

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**JASPER COUNTY**

**WELL NUMBER:** JAS-0425

**LATITUDE:** 32° 37' 05"

**GRID NUMBER:** 30FF-o1

**LONGITUDE:** 80° 59' 43"

**LOCATION:** Ridgeland, 9 miles north-northwest (U.S. Highway 278).

**AQUIFER:** Floridan (Upper Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 225 ft. Open hole below 148 ft.

**LAND SURFACE ELEVATION:** 64.10 ft above National Geodetic Vertical Datum of 1929.

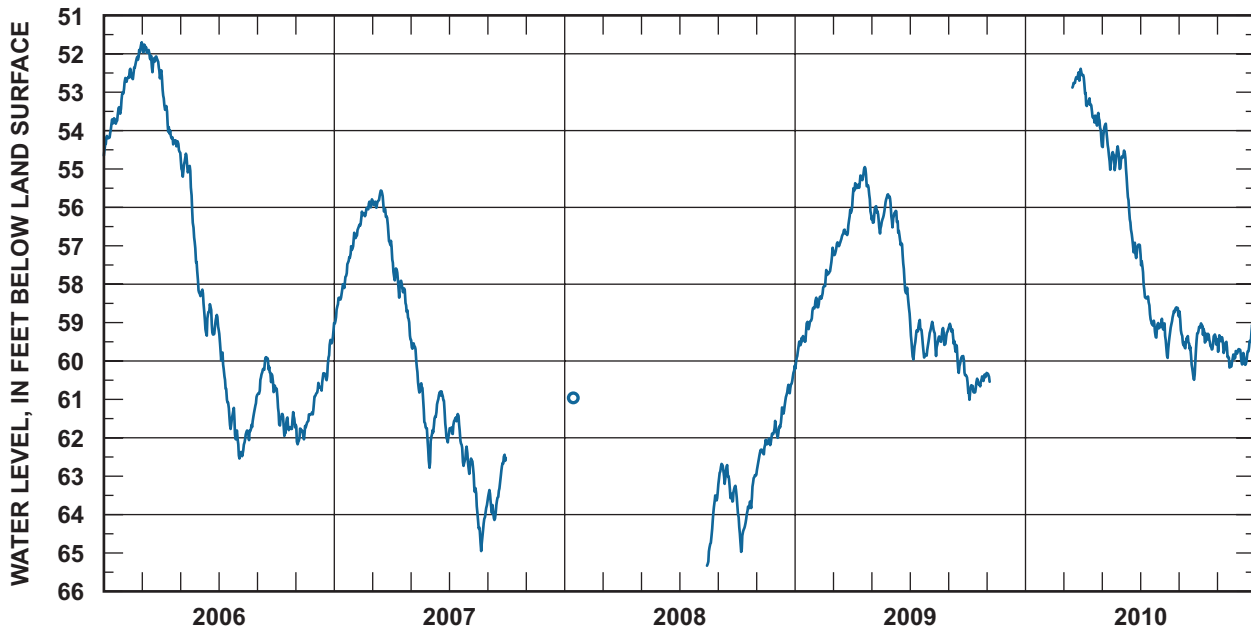
**MEASURING POINT:** Port in base of enclosure, 1.97 ft above land surface.

**PERIOD OF RECORD:** April 2000 to current year.

**EXTREMES:** Highest water level: 51.70 ft below land surface, March 2, 2006.

Lowest water level: 66.38 ft below land surface, June 18, 2002.

**REMARKS:** One of two wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	53.00	51.84	51.70	52.43	54.55	58.14	59.10	60.94	59.90	60.72	61.10	59.20	51.70 (Mar 2)
MEAN	53.83	52.44	52.07	53.79	55.72	58.77	60.79	61.90	60.40	61.52	61.69	60.28	57.77
LOW	54.65	53.03	52.64	54.51	58.16	59.34	62.04	62.54	60.89	61.95	62.17	60.92	62.54 (Aug 4)
<b>2007</b>													
HIGH	57.01	55.85	55.56	56.87	59.34	60.79	61.38	62.54	62.44	--	--	--	--
MEAN	57.98	56.32	56.03	58.03	60.62	61.48	61.95	63.64	63.37	--	--	--	--
LOW	59.02	56.83	56.98	58.99	62.59	62.78	62.73	64.95	64.14	--	--	--	--
<b>2008</b>													
HIGH	--	--	--	--	--	--	--	63.41*	62.68	62.96	61.56	60.12	--
MEAN	--	--	--	--	--	--	--	64.29*	63.12	63.90	62.21	61.10	--
LOW	--	--	--	--	--	--	--	65.33*	63.66	64.97	62.84	62.00	--
<b>2009</b>													
HIGH	58.61	57.27	56.06	54.95	55.66	55.89	58.76	58.98	59.03	60.31	--	--	54.95 (Apr 21)
MEAN	59.31	58.06	56.76	55.42	56.12	57.02	59.46	59.35	59.77	60.61	--	--	58.19
LOW	60.20	58.60	57.24	56.10	56.68	58.63	59.96	59.87	60.43	61.01	--	--	61.01 (Oct 4)
<b>2010</b>													
HIGH	--	--	--	52.55	53.82	54.52	56.98	58.61	58.71	59.02	59.33	58.89	--
MEAN	--	--	--	53.39	54.51	56.04	58.51	59.09	59.61	59.36	59.74	59.64	--
LOW	--	--	--	54.00	55.03	57.32	59.39	59.92	60.49	59.70	60.17	60.10	--

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

**JASPER COUNTY**

**WELL NUMBER:** JAS-0492

**LATITUDE:** 32° 37' 05"

**GRID NUMBER:** 30FF-o3

**LONGITUDE:** 80° 59' 43"

**LOCATION:** Ridgeland, 9 miles north-northwest (U.S. Highway 278).

**AQUIFER:** Floridan (Middle Floridan).

**WELL CHARACTERISTICS:** 6-inch diameter observation well. Depth: 600 ft. Open hole below 290 ft.

**LAND SURFACE ELEVATION:** 65 ft (map estimate) above National Geodetic Vertical Datum of 1929.

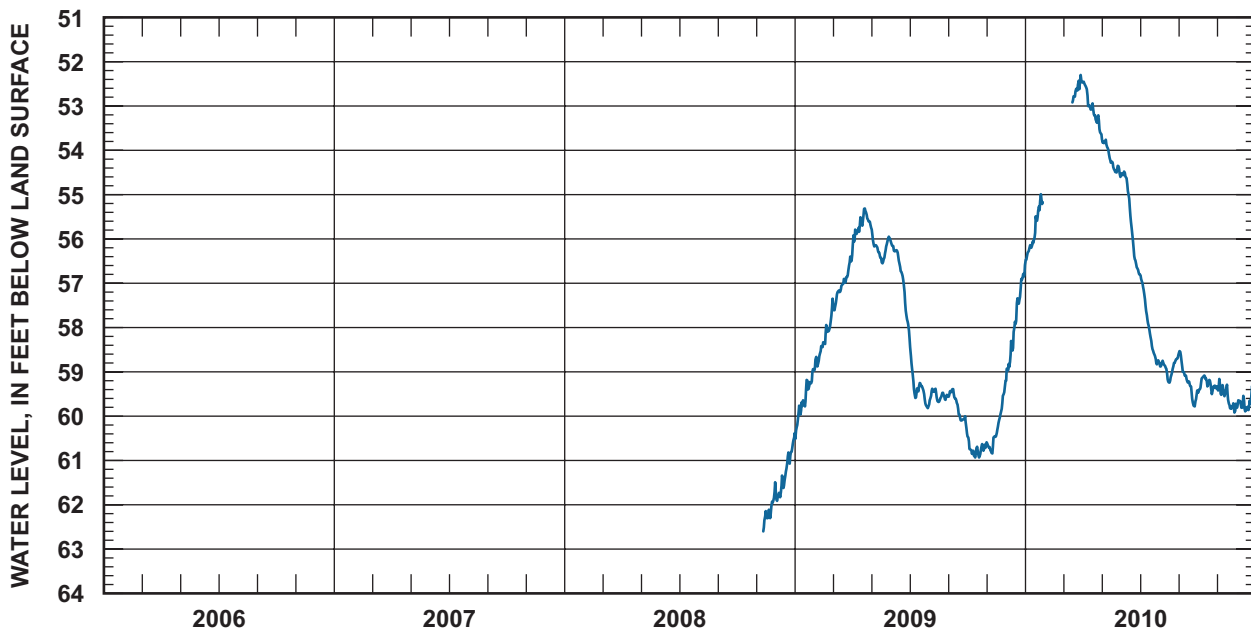
**MEASURING POINT:** Port in PVC instrument support, 2.66 ft above land surface.

**PERIOD OF RECORD:** November 2008 to current year.

**EXTREMES:** Highest water level: 52.30 ft below land surface, March 29, 2010.

Lowest water level: 62.60 ft below land surface, November 11, 2008.

**REMARKS:**



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2007</b>	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
<b>2008</b>	HIGH	--	--	--	--	--	--	--	--	--	61.49*	60.38	--
	MEAN	--	--	--	--	--	--	--	--	--	62.13*	61.26	--
	LOW	--	--	--	--	--	--	--	--	--	62.60*	61.91	--
<b>2009</b>	HIGH	58.94	57.56	56.40	55.31	55.75	56.04	58.26	59.38	59.39	60.46	59.20	55.31 (Apr 21)
	MEAN	59.59	58.34	57.04	55.70	56.19	56.78	59.34	59.55	59.80	60.75	60.24	58.43
	LOW	60.51	58.91	57.61	56.37	56.55	58.07	59.82	59.73	60.39	60.93	60.84	60.93 (Oct 13)†
<b>2010</b>	HIGH	54.99	--	--	52.45	53.64	54.48	56.80	58.62	58.53	59.08	59.16	52.45 (Apr 3)
	MEAN	55.82	--	--	53.01	54.16	55.50	57.95	58.90	59.22	59.28	59.57	57.31
	LOW	56.47	--	--	53.62	54.60	56.80	58.83	59.24	59.78	59.50	59.92	59.92 (Nov 28)

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

† This value occurred on more than one day in that year. The date of the first occurrence is reported.

**ORANGEBURG COUNTY**

**WELL NUMBER:** ORG-0431

**LATITUDE:** 33° 30' 30"

**GRID NUMBER:** 29U-v3

**LONGITUDE:** 80° 51' 54"

**LOCATION:** Orangeburg (Clark Middle School).

**AQUIFER:** Floridan (Upper Three Runs).

**WELL CHARACTERISTICS:** 2-inch diameter observation well. Depth: 93 ft. Screened from 83 to 88 ft.

**LAND SURFACE ELEVATION:** 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

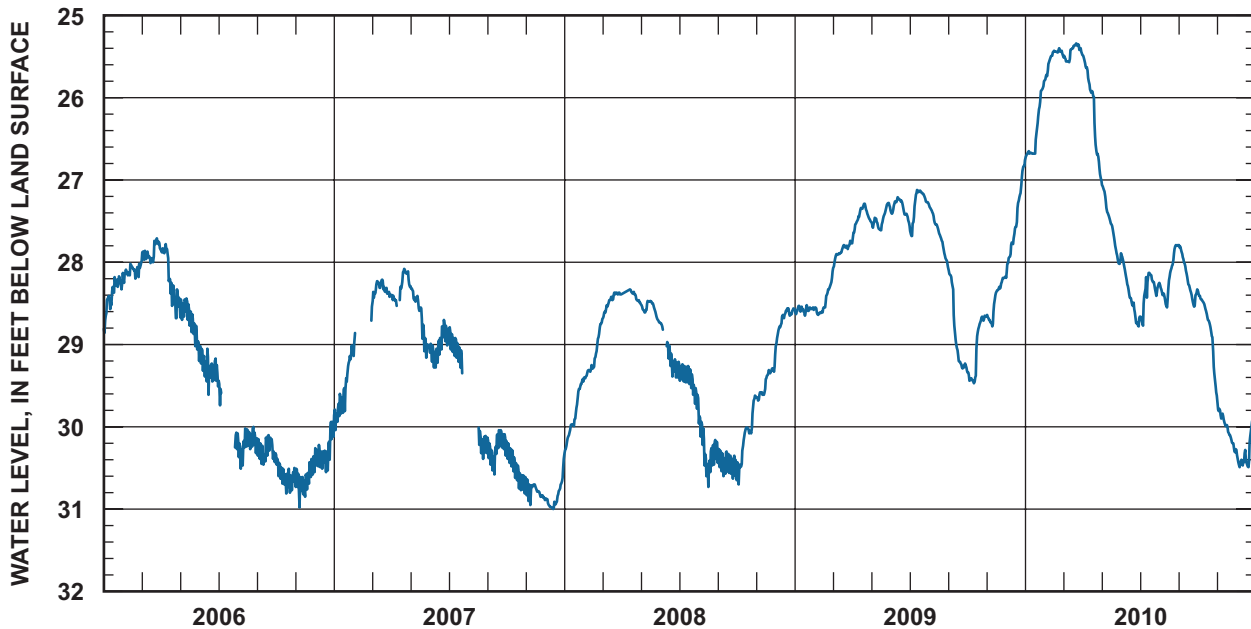
**MEASURING POINT:** Port in base of enclosure, 3.13 ft above land surface.

**PERIOD OF RECORD:** March 2001 to current year.

**EXTREMES:** Highest water level: 25.34 ft below land surface, March 22, 2010.

Lowest water level: 33.82 ft below land surface, September 25, 2002.

**REMARKS:** Drilled for DNR/USGS aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>2006</b>													
HIGH	28.13	28.02	27.71	27.78	28.44	29.02	--	30.00	30.10	30.34	30.36	29.94	27.71 (Mar 26)
MEAN	28.39	28.11	27.88	28.17	28.67	29.26	--	30.19	30.27	30.58	30.62	30.30	29.31
LOW	28.86	28.25	28.01	28.68	29.06	29.61	--	30.51	30.46	30.81	30.98	30.55	30.98 (Nov 7)
<b>2007</b>													
HIGH	29.01	--	28.21	28.08	28.29	28.70	28.79*	--	30.04	30.17	30.63	30.39	28.08 (Apr 22)
MEAN	29.54	--	28.34	28.32	28.63	29.00	29.02*	--	30.24	30.49	30.78	30.85	29.52
LOW	30.04	--	28.71	28.58	29.16	29.28	29.35*	--	30.58	30.81	30.95	31.00	31.00 (Dec 14)
<b>2008</b>													
HIGH	29.42	28.73	28.37	28.33*	28.47	28.65	29.24	29.87	30.27	29.62	29.12	28.56	28.33 (Apr 14)
MEAN	29.87	29.17	28.47	28.41*	28.57	29.07	29.43	30.28	30.42	30.10	29.46	28.69	29.33
LOW	30.32	29.41	28.69	28.49*	28.73	29.54	29.78	30.73	30.65	30.70	29.68	29.02	30.73 (Aug 16)
<b>2009</b>													
HIGH	28.52	28.19	27.74	27.29	27.28	27.21	27.12	27.31	28.10	28.65	28.17	26.76	26.76 (Dec 31)
MEAN	28.57	28.49	27.87	27.45	27.47	27.34	27.30	27.65	28.89	29.04	28.45	27.50	28.00
LOW	28.65	28.64	28.11	27.77	27.61	27.52	27.68	28.06	29.32	29.47	28.78	28.19	29.47 (Oct 11)
<b>2010</b>													
HIGH	25.79	25.40	25.34	25.48	27.01	27.89	28.13	27.79	27.79	28.35	29.72	29.83	25.34 (Mar 22)
MEAN	26.39	25.51	25.45	26.09	27.54	28.37	28.36	28.17	28.19	28.77	30.01	30.27	27.76
LOW	26.72	25.78	25.57	26.98	28.02	28.78	28.77	28.55	28.54	29.62	30.31	30.49	30.49 (Dec 6)†

\* Monthly high, mean, and low values presented despite 6 to 14 days of missing data in that month.

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# SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES GROUND-WATER MONITORING NETWORK, 2006–2010

