

**WATER RESOURCES DATA
FOR SOUTH CAROLINA, 2000–2005**

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

**LAND, WATER AND
CONSERVATION DIVISION**



**WATER RESOURCES
REPORT 41
2007**

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by

Karen Agerton, A. Drennan Park, Constance E. Gawne, and Andrew Wachob

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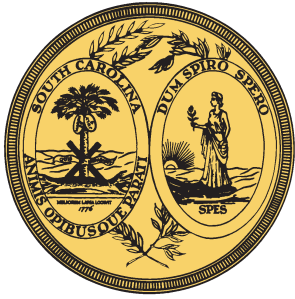


LAND, WATER AND CONSERVATION DIVISION

WATER RESOURCES REPORT 41

2007

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ABSTRACT

Available water-level and salinity data from 69 wells monitored by the South Carolina Department of Natural Resources, in some cases incorporating data collected by the U.S. Geological Survey, for the period 2000–2005, are presented as hydrographs and statistical tables. Well records are grouped by major aquifer, following brief aquifer descriptions. Trends in water levels during this period are discussed in relation to the latter part of the drought of 1998–2002 and to changes in ground water production. Saltwater intrusion is likewise related to the geographic distribution of ground water production.

INTRODUCTION

The South Carolina Department of Natural Resources (DNR) gathers ground-water level, stream-stage, water-quality, and climate data for water-resources assessment and management. These data are used to identify long-term changes in ground-water levels and storage; to correlate climate conditions, streamflows, and ground-water levels; and to determine relationships between saltwater intrusion and water levels or stream stage. Ground-water data are collected through a network of DNR-maintained water-level and specific-conductance observation sites and through U.S. Geological Survey (USGS) maintained sites that are cooperatively funded by DNR or other agencies. Most stream-stage monitoring is carried out by the USGS with cooperative funding. DNR also operates several stream-and climate-monitoring sites in support of education programs and for departmental research projects.

The base DNR network includes 69 wells measured hourly or bimonthly to provide data for annual hydrographs. An additional 600 wells are measured when needed to construct potentiometric maps of the three principal aquifers in South Carolina's Coastal Plain. Two well sites are equipped with fluid-conductivity sensors for long-term saltwater intrusion monitoring. Most monitoring stations have been installed since 1999, although a number of stations have been in operation since 1995. Figure 1 shows the distribution of DNR and USGS ground-water monitoring stations, and Table 1 lists DNR observation sites by county and includes county well numbers, DNR grid numbers, and aquifer names.

Previous Water-Data Reports

The USGS has published water-resources data for South Carolina since 1940 (Table 2). Data between 1940 and 1973 were published as Water-Supply Papers entitled "Water levels and artesian pressures in observation wells in

the United States in (year) – Part 2. Southeastern states." The earliest publications included water-level data for calendar year intervals; the Water-Supply Paper series after 1955 included yearly data published every fifth year. The newest publication series, referred to as Water-Data Reports and entitled "Water resources data – South Carolina, water year xxxx," began in 1971. Water-Data Reports present extensive information on ground-water levels and surface-water stage, flow, and quality for each water year (October 1 to September 31). The report of T. W. Cooney and others (2006) is the most recent in the series.

DNR has published a water-level and potentiometric map series for the major Coastal Plain aquifers. Potentiometric levels for the Middendorf aquifer in 1996 and 2001 were presented by Hockensmith and Waters (1998) and Hockensmith (2003a), respectively. Potentiometric levels for the Black Creek aquifer in 1995 and 2001 were presented by Hockensmith (1997) and Hockensmith (2003b), respectively. Floridan aquifer levels for 1998 were published by Hockensmith (2001). The South Carolina Department of Health and Environmental Control (DHEC) monitors water levels in the upper Floridan aquifer in Beaufort, Jasper, Hampton, and Colleton Counties and also has published a 1997 potentiometric map for those counties (Ransom and others, 2000). Kiuchi (2002) and Gellici and others (2004) published selected stream-stage and ground-water data illustrating the effects of the 1998–2002 drought.

Intermittent and periodic water-level measurements of 16 Piedmont province wells and 266 Coastal Plain province wells were published 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. Harwell and others (2004) published water-level data collected from 56 wells and specific conductance measurements from 2 stations for the years 2000 and 2001.

Table 1. South Carolina Department of Natural Resources observation wells: 2000–2005

County	Well number	Grid number	Location description	Aquifer	Page
Aiken	AIK-2378	40W-q2	DNR cluster at Jackson	Black Creek	51
Aiken	AIK-2379	40W-q3	DNR cluster at Jackson	Black Creek	52
Aiken	AIK-2380	40W-q4	DNR cluster at Jackson	Middendorf	33
Allendale	ALL-347	35AA-q2	DNR cluster at Appleton	Middendorf	34
Allendale	ALL-348	35AA-q3	DNR cluster at Appleton	Cape Fear	29
Allendale	ALL-358	37Z-t3	DNR cluster at Martin	Middendorf	35
Allendale	ALL-363	37Z-t4	DNR cluster at Martin	Floridan	70
Allendale	ALL-364	37Z-t5	DNR cluster at Martin	Floridan	71
Allendale	ALL-366	37Z-t7	DNR cluster at Martin	Tertiary sand	63
Allendale	ALL-367	37Z-t8	DNR cluster at Martin	Black Creek	53
Allendale	ALL-371	35AA-q4	DNR cluster at Appleton	Floridan	72
Allendale	ALL-372	35AA-q5	DNR cluster at Appleton	Tertiary sand	64
Allendale	ALL-373	35AA-q6	DNR cluster at Appleton	Floridan	73
Allendale	ALL-375	35AA-q8	DNR cluster at Appleton	Tertiary sand	65
Allendale	ALL-376	35AA-q9	DNR cluster at Appleton	Black Creek	54
Allendale	ALL-377	35AA-q10	DNR cluster at Appleton	Middendorf	36
Allendale	ALL-378	37AA-g2	DNR test well at Little Hell Landing	Middendorf	37
Beaufort	BFT-101	27KK-y1	USGS test well at Hilton Head Island	Floridan	74
Beaufort	BFT-429	28JJ-y1	Victoria Bluff Wildlife Mgmt. Area, Bluffton	Floridan	75
Beaufort	BFT-1813	27KK-j5	Port Royal Plantation at Fort Walker	Floridan	76
Beaufort	BFT-1845	28JJ-p5	Middle Floridan well at Waddell Center	Floridan	77
Beaufort	BFT-2055	27KK-r14	Town of Hilton Head Island test well	Middendorf	38
Berkeley	BRK-644	18W-b2	DNR test well at St. Stephen Middle School	Floridan	78
Brunswick, NC	BRW-1863	2Q-j4	N.C. Dept of Envir. & Nat. Res., Calabash	Black Creek	55
Brunswick, NC	BRW-1865	2Q-j6	N.C. Dept of Envir. & Nat. Res., Calabash	Middendorf	39
Brunswick, NC	BRW-1878	2Q-j2	N.C. Dept of Envir. & Nat. Res., Calabash	Cape Fear	30
Charleston	CHN-44	19DD-o1	U.S. Dept of Agriculture, U.S. 17 south	Floridan	79
Charleston	CHN-484	22GG-d1	Salinity monitor, Blue House Plantation	Floridan	80
Charleston	CHN-803	11Z-b1	DNR test well at Santee Preserve	Floridan	81
Chesterfield	CTF-81	17H-f1	DNR test well at Cheraw State Park	Crystalline rock	10
Colleton	COL-16	26CC-f1	City of Walterboro, unused municipal well	Floridan	82
Colleton	COL-30	27CC-j1	City of Walterboro, unused municipal well	Black Creek	56
Colleton	COL-97	26AA-k1	DNR test well near Canadys	Floridan	83
Colleton	COL-301	22GG-w4	Edisto Beach State Park	Floridan	84
Darlington	DAR-228	17J-m1	DNR test well at Lake Darpo	Middendorf	40
Dillon	DIL-121	10L-c2	DNR test well at Little Peedee State Park	Middendorf	41
Florence	FLO-274	16Q-s1	USGS well at Lake City Airport	Middendorf	42
Florence	FLO-276	16Q-s2	USGS well at Lake City Airport	Black Creek	57
Greenville	GRV-712	50B-r1	Ceasars Head State Park test well	Crystalline rock	11
Greenville	GRV-2162	46E-a2	Unused well at East Riverside Park, Greer	Crystalline rock	12
Greenville	GRV-2230	48D-v2	Furman University observation well	Shallow	23
Greenville	GRV-2543	49B-o2	Former supply well for Jones Gap State Park	Crystalline rock	13
Greenville	GRV-3333	48B-d3	DNR test well, off Hwy 25 near N.C. state line	Crystalline rock	14
Greenville	GRV-3335	49B-o4	DNR test well at Jones Gap State Park	Crystalline rock	15
Greenville	GRV-3336	49B-o5	DNR test well at Jones Gap State Park	Shallow	24
Greenville	GRV-3341	45B-d1	DNR test well at Oak Grove Road Fire Station	Shallow	25
Greenville	GRV-3342	45B-d2	DNR test well at Oak Grove Road Fire Station	Crystalline rock	16
Greenville	GRV-3533	48D-v9	Furman University	Crystalline rock	17

Table 1. South Carolina Department of Natural Resources observation wells: 2000–2005 (continued)

County	Well number	Grid number	Location description	Aquifer	Page
Hampton	HAM-50	33EE-v1	Unused public supply well near Furman	Tertiary sand	66
Hampton	HAM-228	33BB-s1	Unused domestic well at Brunson	Floridan	85
Horry	HOR-309	6R-q3	DNR test well near Perry Road, Conway	Black Creek	58
Horry	HOR-973	5S-f1	DNR test well at Myrtle Beach	Middendorf	43
Jasper	JAS-425	30FF-o1	DNR well pair at Gillisonville	Floridan	86
Jasper	JAS-426	30FF-o2	DNR well pair at Gillisonville	Black Creek	59
Kershaw	KER-263	24I-i1	Unused well northwest of Bethune	Crystalline rock	18
Laurens	LRN-1705	43J-c2	Well at Joe R. Adair Outdoor Center, Laurens	Shallow	26
Laurens	LRN-1706	44I-b1	Unused domestic well at Big Knob Fire Tower	Crystalline rock	19
Laurens	LRN-1707	43K-k1	Unused well at former Mountville Fire Tower	Crystalline rock	20
Lee	LEE-75	21M-k1	DNR core hole at Lee State Park	Middendorf	44
Lexington	LEX-844	32S-b4	DNR core hole at Swansea Primary School	Middendorf	45
Marion	MRN-77	10Q-p1	USGS & S.C. Forestry Comm. well site	Black Creek	60
Marion	MRN-78	10Q-p2	USGS & S.C. Forestry Comm. well site	Middendorf	46
Orangeburg	ORG-393	29U-v1	Well/weather station at Clark Middle School	Black Creek	61
Orangeburg	ORG-430	29U-v2	Well/weather station at Clark Middle School	Tertiary sand	67
Orangeburg	ORG-431	29U-v3	Well/weather station at Clark Middle School	Floridan	87
Richland	RIC-543	27Q-m1	DNR core hole at Webber School, Eastover	Middendorf	47
Richland	RIC-585	29P-t4	DNR core hole at Horrel Hill Elem. School	Middendorf	48
Saluda	SAL-69	39N-u3	Well at Hollywood Elementary School	Crystalline rock	21
Sumter	SUM-355	23O-y3	Unused well at Ebenezer Elementary School	Floridan	88

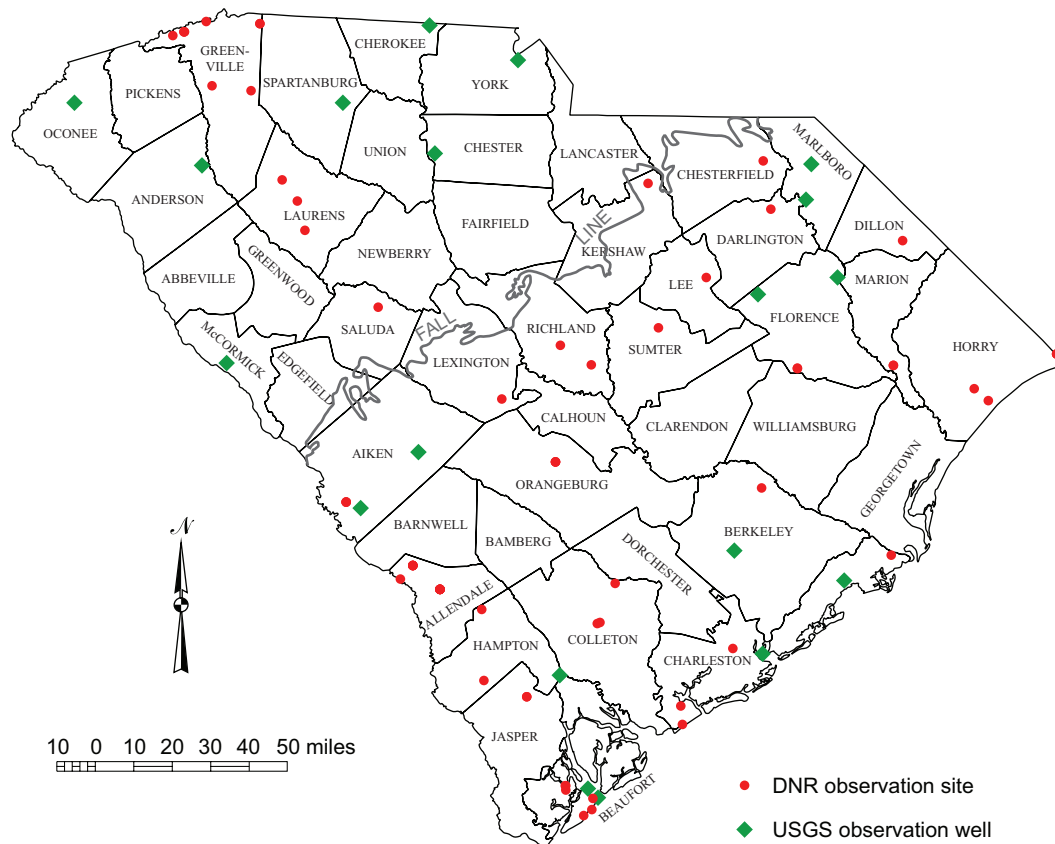


Figure 1. Locations of DNR and USGS ground-water observation sites.

Table 2. U.S. Geological Survey periodic water-data reports for South Carolina

Data period	Report Number	Author(s)	Year published
1940	WSP-907	Fishel, V.C., <i>in</i> Meinzer, O.E., and Wenzel, L.K.	1942
1941	WSP-937	Meinzer, O.E., and Wenzel, L.K.	1943
1942	WSP-945	Warren, M.A., and Ireland, D.M. <i>in</i> Meinzer, O.E., and Wenzel, L.K.	1944
1943	WSP-987	Warren, M.A. <i>in</i> Meinzer, O.E., and Wenzel, L.K.	1945
1944	WSP-1017	Sayer, A.N., and others (No S.C. section)	1947
1945	WSP-1024	Paulsen, C.G. (ed.) (No S.C. section)	1948
1946	WSP-1072	Siple, G.E., <i>in</i> Paulsen, C.G. (ed.)	1950
1947	WSP-1097	Siple, G.E., <i>in</i> Paulsen, C.G. (ed.)	1951
1948	WSP-1127	Siple, G.E., <i>in</i> Paulsen, C.G. (ed.)	1951
1949	WSP-1157	Siple, G.E., <i>in</i> Paulsen, C.G. (ed.)	1952
1950	WSP-1166	Siple, G.E., <i>in</i> Paulsen, C.G. (ed.)	1953
1951	WSP-1192	Siple, G.E., <i>in</i> Sayer, A.N. (ed.)	1954
1952	WSP-1222	Siple, G.E., <i>in</i> Sayer, A.N. (ed.)	1955
1953	WSP-1266	Siple, G.E., <i>in</i> Sayer, A.N. (ed.)	1956
1954	WSP-1322	Siple, G.E., <i>in</i> Sayer, A.N. (ed.)	1956
1955	WSP-1405	Siple, G.E., <i>in</i> Sayer, A.N. (ed.)	1957
1956-1958	WSP-1538	Siple, G.E., <i>in</i> Hackett, O.M. (ed.)	1962
1959-1963	WSP-1803	Siple, G.E., <i>in</i> Hackett, O.M. (ed.)	1965
1964-1968	WSP-1978	U.S. Geological Survey	1971
1969-1973	WSP-2171	U.S. Geological Survey	1975
1971	SC-71-1	USGS-WRD-SC	1972
1972	SC-72-1	USGS-WRD-SC	1973
1973	SC-73-1	USGS-WRD-SC	1974
1974	SC-74-1	USGS-WRD-SC	1975
1975	SC-75-1	USGS-WRD-SC	1976
1976	SC-76-1	USGS-WRD-SC	1977
1977	SC-77-1	USGS-WRD-SC	1978
1978	SC-78-1	USGS-WRD-SC	1979
1979	SC-79-1	USGS-WRD-SC	1980
1980	SC-80-1	USGS-WRD-SC	1981
1981	SC-81-1	USGS-WRD-SC	1982
1982	SC-82-1	Bennett, C.S., and others	1983
1983	SC-83-1	Bennett, C.S., and others	1984
1984	SC-84-1	Bennett, C.S., and others	1985
1985	SC-85-1	Bennett, C.S., and others	1986
1986	SC-86-1	Bennett, C.S., and others	1987
1987	SC-87-1	Bennett, C.S., and others	1988
1988	SC-88-1	Bennett, C.S., and others	1989
1989	SC-89-1	Bennett, C.S., and others	1990
1990	SC-90-1	Bennett, C.S., and others	1991
1991	SC-91-1	Bennett, C.S., and others	1992
1992	SC-92-1	Bennett, C.S., and others	1993
1993	SC-93-1	Bennett, C.S., and others	1994
1994	SC-94-1	Cooney, T.W., and others	1995
1995	SC-95-1	Cooney, T.W., and others	1996
1996	SC-96-1	Cooney, T.W., and others	1997
1997	SC-97-1	Cooney, T.W., and others	1998
1998	SC-98-1	Cooney, T.W., and others	1999
1999	SC-99-1	Cooney, T.W., and others	2000
2000	SC-00-1	Cooney, T.W., and others	2001
2001	SC-01-1	Cooney, T.W., and others	2002
2002	SC-02-1	Cooney, T.W., and others	2003
2003	SC-03-1	Cooney, T.W., and others	2004
2004	SC-04-1	Cooney, T.W., and others	2005
2005	SC-05-1	Cooney, T.W., and others	2006

Report types: WSP, Water-Supply Paper; SC, Water-Data Report

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 USGS. For example, HAM-50 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-50, which is located in southwestern Hampton County, has grid number 33EE-v1 (Fig. 2).

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 USGS Stand Alone Procedure Documents (Table 3) and the Department of Natural Resources procedures manual. Land-surface and measuring-point elevations are surveyed from USGS or South Carolina Geodetic Survey benchmarks at 28 well sites and are reported to the nearest tenth or hundredth of a foot. Elevations at the remaining sites are taken from USGS topographic quadrangles, are estimated to the nearest foot, and are considered accurate to one-half the map contour interval. Station locations are fixed by GPS (Global Positioning System) measurements.

Manual measurements

Flowing artesian wells are manually measured with 0–30, 0–60, and 0–100 psi (pounds per square inch) range Bourdon-type test gages. The gages are calibrated annually

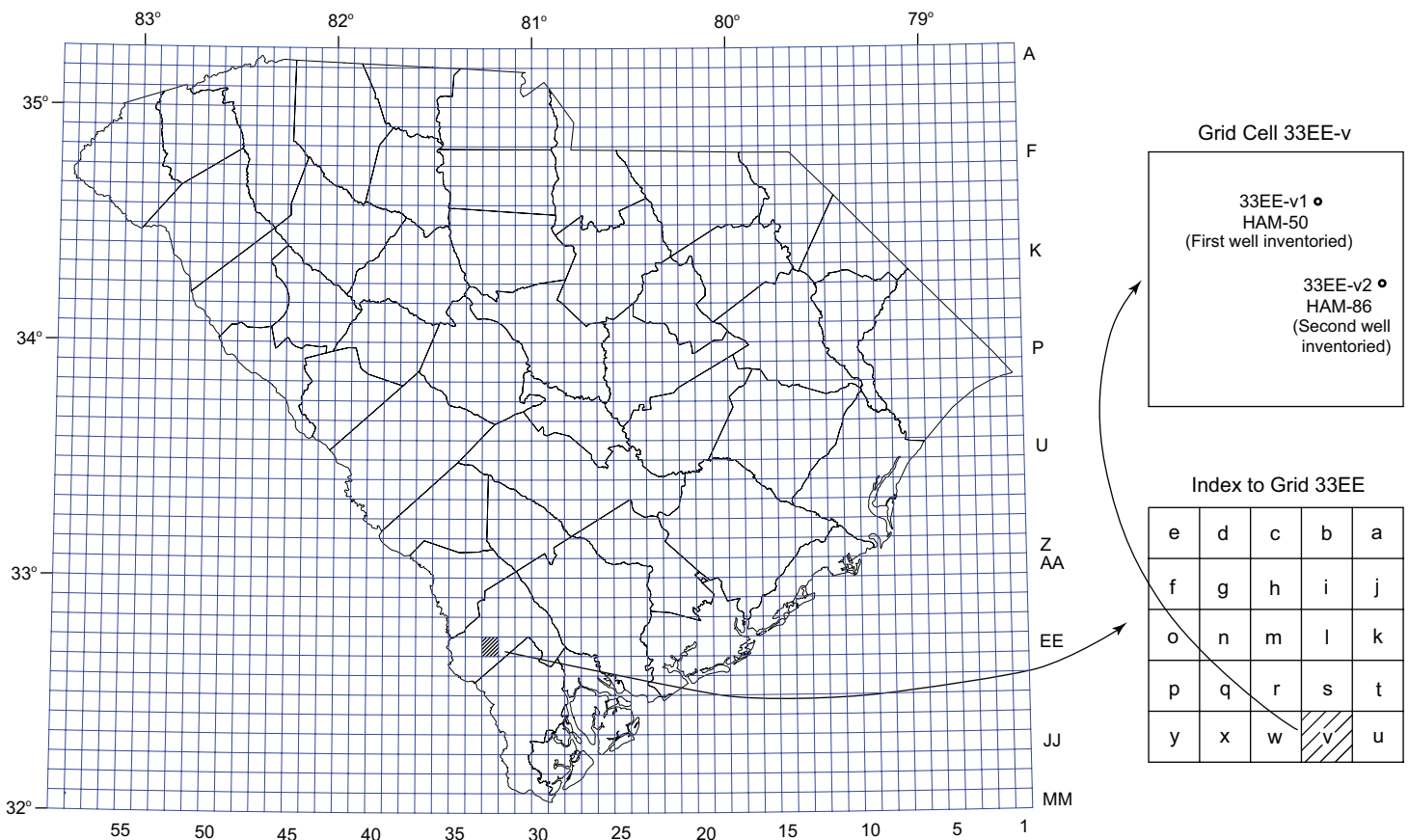


Figure 2. Illustration of the DNR well-numbering system.

Table 3. 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

Table 4. Ranges and accuracies of ¼-percent precision test gages used by DNR

Gage range (psi)	Rated gage accuracy (psi)	Rated gage accuracy (feet)	Measurement accuracy (feet)
0 – 30	0.075	0.17	0.4
0 – 60	.150	.34	.5
0 – 100	.250	.57	.8

by a commercial testing laboratory and are rated to ¼ 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 4 summarizes the manufacturer-rated accuracies and the authors' assumptions for measurement.

Tape measurements typically are made with electric tapes, and tape readings periodically are compared to a master tape. Both steel and electric tapes are capable of 0.01-ft accuracy, but visibility, thermal expansion and contraction, and tape sinuosity diminish measurement accuracy in field conditions. Their 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.

Automated measurements

The 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. Corrections, if applied, are noted in the remarks that accompany the hydrograph.

Pressure transducers measure the height of water above a semiconductor strain gage: electrical resistance to an input voltage, and therefore voltage output, change 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. The transducers used by DNR have 0–5 meter (0–16 ft) and 0–10 meter (0–32 ft) ranges, and accuracy and resolution are 1 percent of full scale and 0.1 percent 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 are compared to determine transducer performance. Where the sum of measurements is found to differ by more than 2 percent of range (0.32 or 0.64 ft) from previous measurements, a potential instrument fault may exist, but no record correction is applied. Where the specifications are exceeded repeatedly, instrument failure is confirmed, the transducer is replaced, and the associated records are excluded from the hydrograph.

Water-quality measurements

Two physical characteristics of water—specific conductance and temperature—are monitored at a number of Lower Coastal Plain stations. Specific-conductance measurements are used to calculate salinity, total dissolved-solids concentrations, and chloride concentrations.

Conductance sensors include the induction type and graphite-electrode type. Induction-based sensors measure the electrical current generated as water passes through an encased wire coil and have an accuracy of 20 $\mu\text{S}/\text{cm}$ (microSiemens per centimeter). The graphite-electrode type measures current between pairs of immersed electrodes, with accuracies of 0.5 or 1 percent. The induction-type sensors are bulky, but they exhibit good signal stability and are unaffected by biological growth. Electrode sensors are compact and suited for use in small-diameter observation and stilling wells. By convention, specific conductance is the electrical conductance adjusted to the standard temperature of 25° C. The algorithms used to calculate specific conductance vary with the instrument manufacturer, but the differences in results are insignificant for most purposes.

Temperature data, provided by thermistor-equipped conductivity sensors, are logged at salinity-monitoring stations and are used to calculate specific conductance. They are additionally useful as an indication of water mixing where saltwater intrusion occurs. The pressure probes used for ground-water monitoring also can provide temperature measurements. These data are useful in assessing transducer performance and for fault identification; however, ground-water temperature varies little, and the continual data have small utility with respect to resource assessment; thus ground-water temperature data are not stored permanently. Surface-water temperature data are not reported here but are permanently stored by DNR.

Data storage and quality:

Logged measurements are stored in both raw-data and processed-data tables. The raw-data table reflects the readings of various sensor types and the performance of monitoring hardware as they were originally stored in data loggers. Raw data are stored mainly “as is” and are archive-preserved for insight into hardware conditions and for quality assurance. Processed-data tables are winnowed of measurement anomalies and logged hardware failures. The winnowed data principally consist of spikes and dropouts caused by lightning and electromagnetic interference and of measurements characteristic of hardware faults. The data that remain, and are used for the preparation of hydrographs, reflect the less accurate of the tape, gage, or sensor used.

Statistical Data

The statistical data presented for each observation site include graphs of average-daily measurements and the corresponding tables of monthly and yearly minimums, maximums, and means. Average daily water level and specific conductance are calculated and plotted for each day having 17 or more hourly measurements. Monthly minimums, maximums, and means are calculated for each month having 5 or fewer days of missing record, and the yearly statistics include the minimum, maximum, and mean for each calendar year having 10 or more months of record.

Trends in Water Levels

Ground-water levels observed in 2000 through 2005 include the effects of a drought that began in June 1998 and continued into late 2002. Most of the hydrographs for the 2000–2005 period showed water-level declines through late 2002 and subsequent recoveries; some recoveries were slight while others were nearly to predrought levels. In and near Colleton County, water levels in the Floridan aquifer continued to decline after 2002, whereas Floridan aquifer water levels generally recovered slightly in Beaufort County. Water levels in Black Creek and Middendorf aquifer wells generally recovered after 2002 in the upper Coastal Plain, but declined elsewhere, especially in the northeastern part of the State. The water level also declined steadily in the Black Creek observation well at Gillisonville in northern Jasper County. No clear trend was present in the hydrographs of Cape Fear aquifer wells, but a steady decline occurred at the Middendorf-Cape Fear observation well at Hilton Head Island as pumping from the island’s single Middendorf-Cape Fear production well increased. Seasonal water-level fluctuations, principally in response to pumping, typically were superimposed on the drought- and pumping-induced declines and the post-drought recoveries.

PIEDMONT WATER LEVELS

Crystalline-Rock Aquifer

The crystalline-rock aquifer system 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, but rarely is used there owing to greater permeability and water availability in the overlying sedimentary rock. The 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. The rocks of the Chauga Belt and Blue Ridge terrane are the main units in the Blue Ridge province

The crystalline rock is complex 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

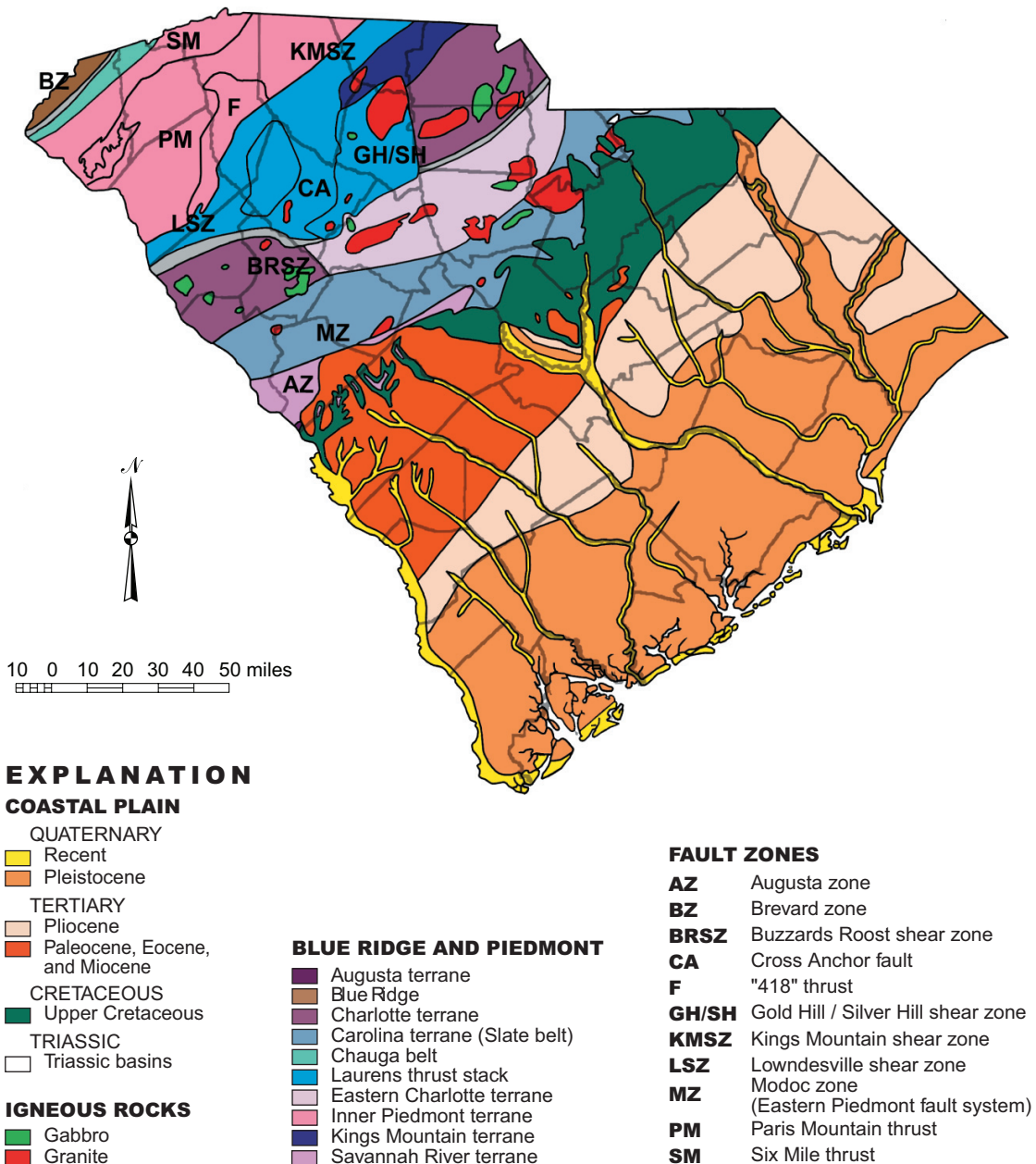


Figure 3. Geologic map of South Carolina (South Carolina Geological Survey, 1997).

extent of fractures diminish with increasing depth, and most crystalline-rock wells are less than 400 feet deep. Over 70 percent of reported well yields 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.

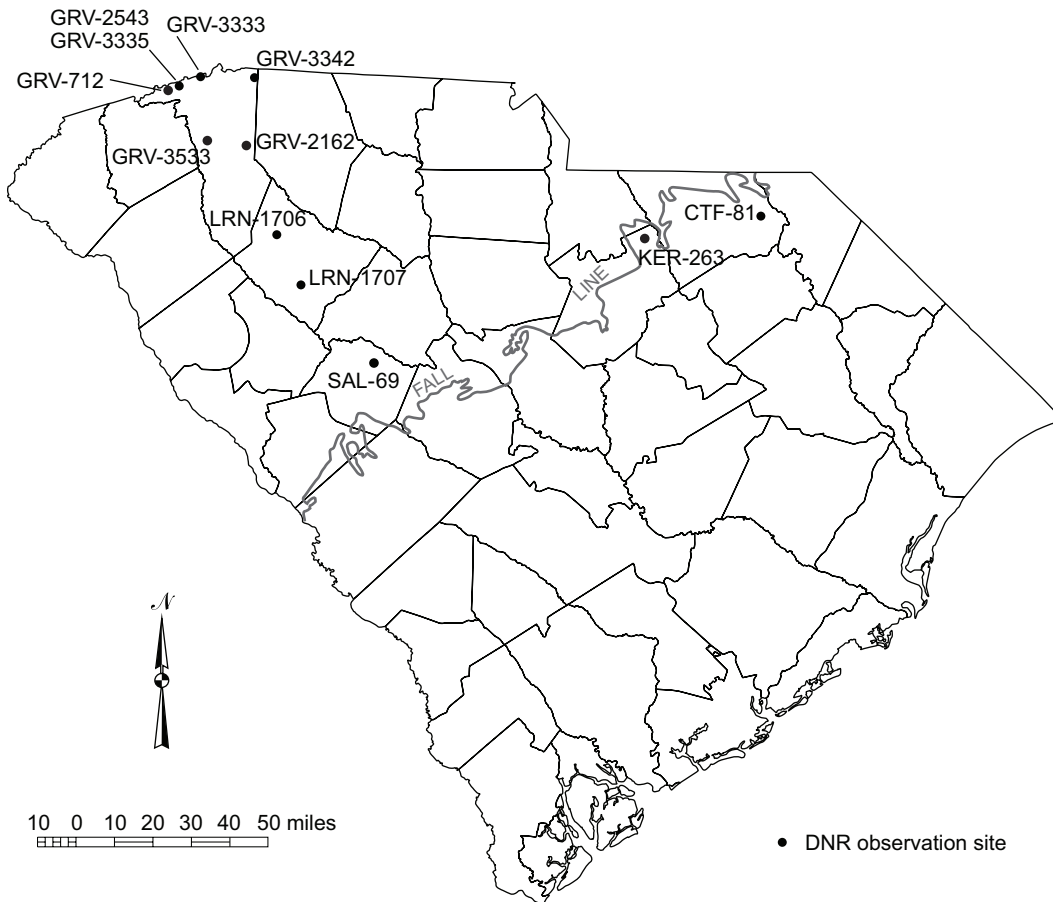


Figure 4. Locations of crystalline-rock aquifer observation wells.

CHESTERFIELD COUNTY

WELL NUMBER: CTF-81

LATITUDE: 34° 38' 35"

GRID NUMBER: 17H-f1

LONGITUDE: 79° 54' 42"

LOCATION: Cheraw State Park, Cheraw.

AQUIFER: Slate.

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

DATUM: Land surface is 190 ft (map estimate) above National Geodetic Vertical Datum of 1929.

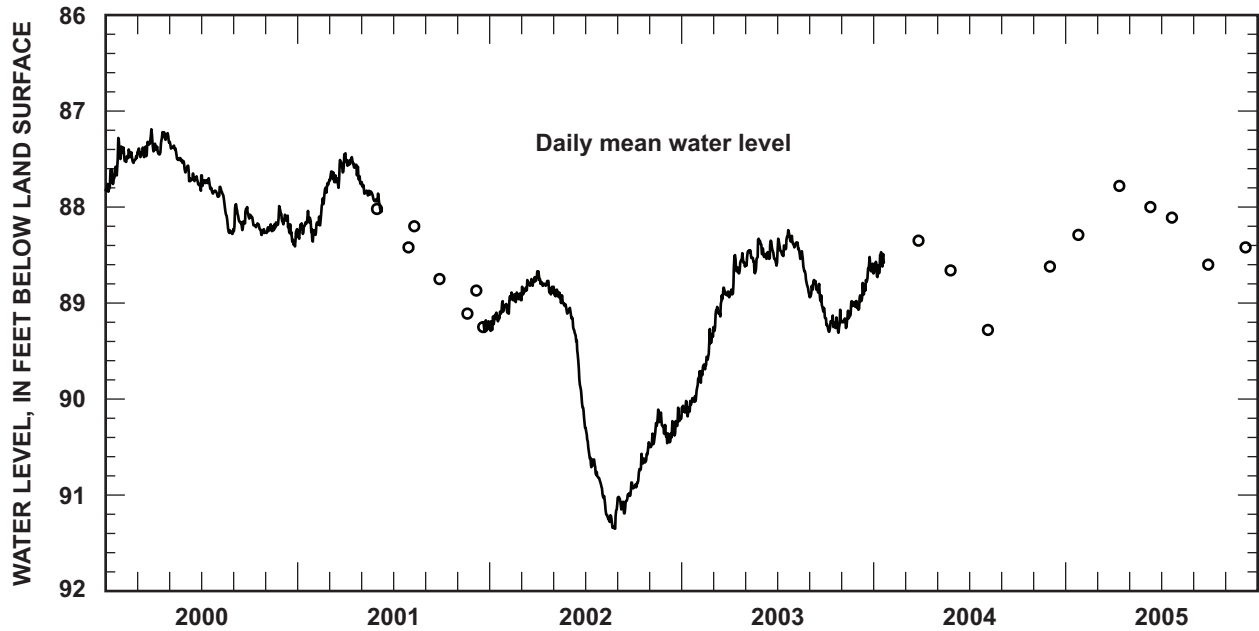
MEASURING POINT: Top of casing, 1.80 ft above land surface datum.

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.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	87.28	87.38	87.19	87.22	87.32	87.57	87.67	87.79	87.97	88.08	87.99	88.08	87.19 (Mar. 28)
	MEAN	87.63	87.48	87.39	87.33	87.46	87.70	87.78	88.05	88.11	88.20	88.18	88.23	87.79
	LOW	87.84	87.54	87.48	87.45	87.63	87.83	87.87	88.28	88.25	88.29	88.27	88.41	88.41 (Dec. 26)
2001	HIGH	88.04	87.75	87.45	87.44	87.74	87.86	--	--	--	--	--	89.18	87.44 (Apr. 1)
	MEAN	88.21	88.02	87.65	87.57	87.86	--	--	--	--	--	--	--	--
	LOW	88.36	88.29	87.80	87.76	87.94	88.05	--	--	--	--	--	89.30	89.30 (Dec. 22)
2002	HIGH	88.98	88.89	88.72	88.67	88.83	89.05	90.30	90.91	90.87	90.45	90.11	90.09	88.67 (Apr. 1)
	MEAN	89.13	88.97	88.82	88.80	88.96	89.56	90.65	91.18	91.04	90.71	90.32	90.31	89.87
	LOW	89.29	89.11	88.97	88.91	89.11	90.26	90.89	91.35	91.19	90.93	90.50	90.46	91.35 (Aug. 26)
2003	HIGH	89.85	89.27	88.84	88.48	88.33	88.35	88.24	88.37	88.76	89.07	88.98	88.52	88.24 (Jul. 22)
	MEAN	90.04	89.60	89.03	88.68	88.51	88.49	88.39	88.56	88.91	89.22	89.11	88.81	88.95
	LOW	90.18	89.83	89.35	88.94	88.69	88.61	88.58	88.91	89.15	89.31	89.26	89.07	90.18 (Jan. 12)
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

GREENVILLE COUNTY

WELL NUMBER: GRV-712

LATITUDE: 35° 06' 22"

GRID NUMBER: 50B-r1

LONGITUDE: 82° 37' 36"

LOCATION: Caesars Head State Park, near the weather station.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 3,150 ft (map estimate) above National Geodetic Vertical Datum of 1929.

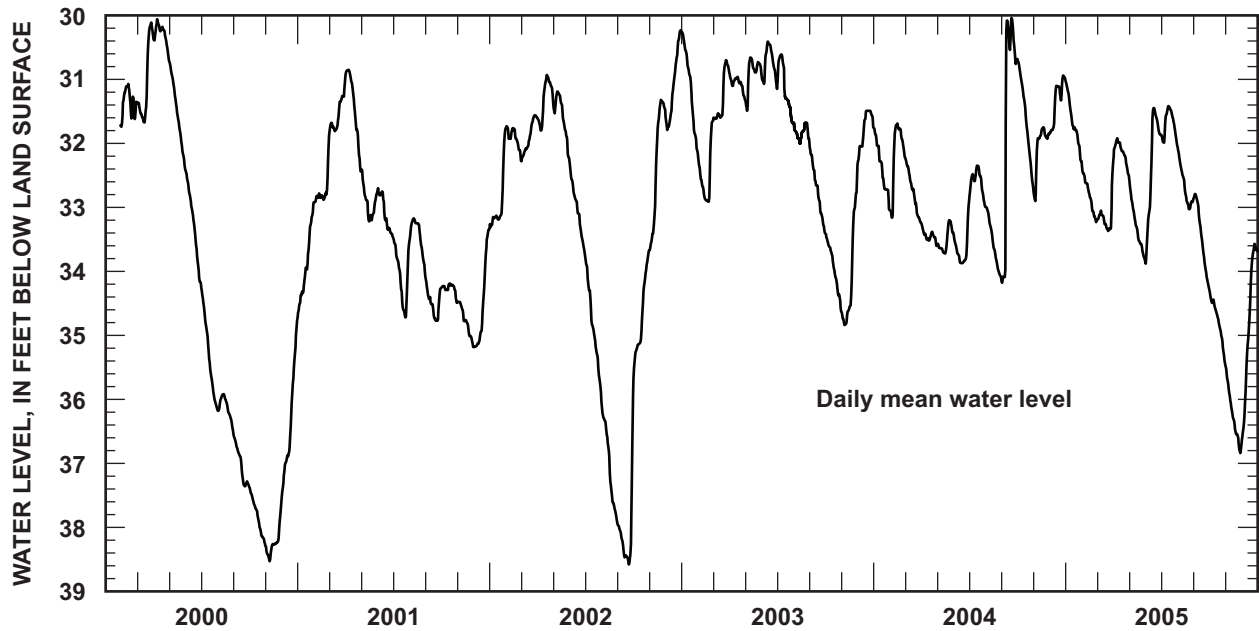
MEASURING POINT: Top of casing, 0.46 ft above land surface datum.

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: 38.58 ft below land surface, September 22, 2002.

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
2000	HIGH	31.42	31.07	30.11	30.06	30.72	32.42	34.25	35.92	36.58	37.38	37.61	34.72	30.06 (Apr. 8)
	MEAN	31.76	31.34	31.04	30.29	31.51	33.25	35.13	36.14	37.04	37.84	38.24	36.33	34.16
	LOW	32.09	31.69	31.67	30.69	32.40	34.19	36.00	36.53	37.37	38.29	38.53	37.53	38.53 (Nov. 8)
2001	HIGH	32.92	32.05	31.05	30.85	32.41	32.70	33.48	33.17	34.13	34.19	34.48	33.33	30.85 (Apr. 7)
	MEAN	33.88	32.78	31.56	31.38	32.91	33.08	34.07	33.44	34.50	34.27	34.78	34.51	33.43
	LOW	34.65	32.92	31.87	32.44	33.22	33.46	34.72	34.08	34.77	34.49	35.18	35.18	35.18 (Dec. 3)
2002	HIGH	31.76	31.73	31.56	30.93	31.19	32.26	33.76	36.02	35.94	33.67	31.32	30.23	30.23 (Dec. 30)
	MEAN	32.93	31.90	31.91	31.31	31.55	33.01	34.82	37.00	38.11	34.67	32.27	31.06	33.38
	LOW	33.31	32.19	32.28	31.80	32.22	33.71	35.90	37.93	38.58	35.68	33.67	31.79	38.58 (Sep. 22)
2003	HIGH	30.26	31.66	30.70	30.89	30.66	30.41	31.15	31.68	32.06	33.41	32.57	31.49	30.26 (Jan. 1)
	MEAN	31.10	32.53	31.30	31.05	30.91	30.74	31.11	31.82	32.73	33.93	34.12	31.77	31.93
	LOW	32.15	32.91	31.65	31.28	31.49	31.09	31.68	32.00	33.40	34.63	34.84	32.33	34.84 (Nov. 6)
2004	HIGH	31.76	31.69	32.23	33.26	33.20	32.90	32.35	32.99	30.04	30.71	31.75	30.94	30.04 (Sep. 19)
	MEAN	32.37	32.16	32.77	33.45	33.51	33.66	32.60	33.58	31.28	31.63	32.02	31.31	32.53
	LOW	33.04	33.16	33.24	33.60	33.72	33.87	32.99	34.15	34.18	32.76	32.90	31.83	34.18 (Sep. 1)
2005	HIGH	31.06	32.44	32.31	31.92	32.58	31.45	31.42	32.07	32.79	34.33	35.52	33.57	31.06 (Jan. 1)
	MEAN	31.71	32.83	33.15	32.14	33.31	32.27	31.69	32.67	33.48	34.80	36.28	34.79	33.26
	LOW	32.36	33.23	33.37	32.50	33.84	33.88	32.03	33.03	34.28	35.48	36.84	36.63	36.84 (Nov. 28)

GREENVILLE COUNTY

WELL NUMBER: GRV-2162

LATITUDE: 34° 54' 16"

GRID NUMBER: 46E-a2

LONGITUDE: 82° 15' 49"

LOCATION: Northeast of Greenville at East Riverside Park.

AQUIFER: Metamorphic rock.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 169 ft. Open hole below 83 ft.

DATUM: Land surface is 875 ft (map estimate) above National Geodetic Vertical Datum of 1929.

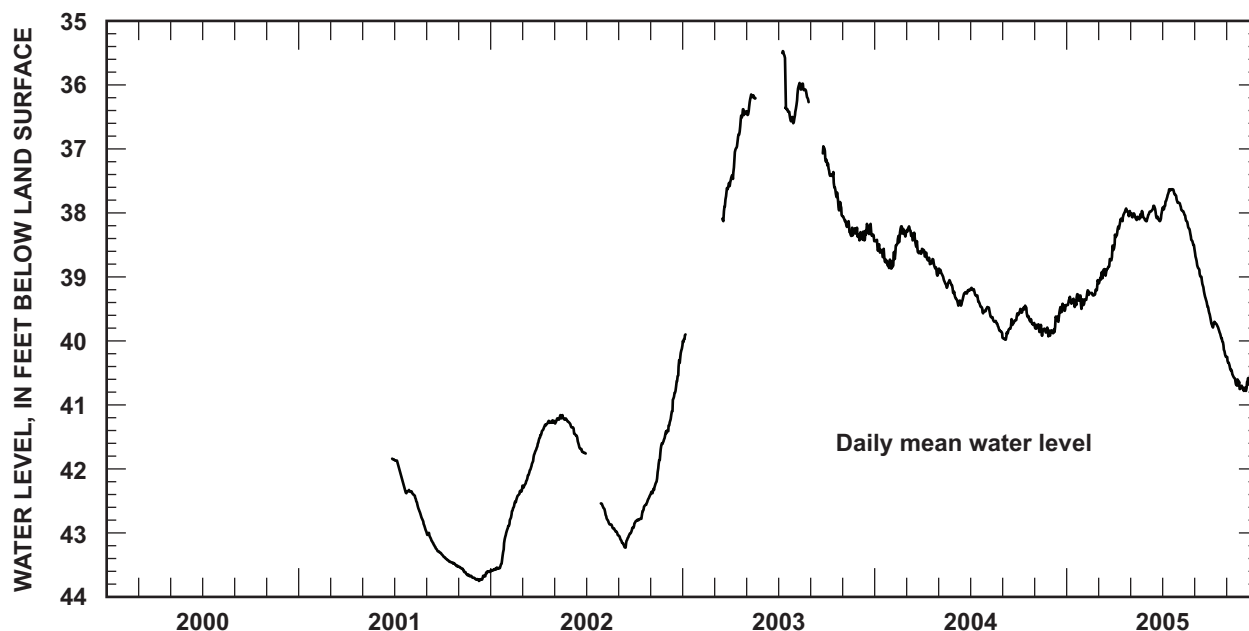
MEASURING POINT: Top of casing, 1.53 ft above land surface datum.

PERIOD OF RECORD: June 2001 to current year.

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

Lowest water level: 43.75 ft below land surface, December 9, 2001.

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
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	42.35	43.00	43.35	43.53	43.59	42.35 (Aug. 8)
	MEAN	--	--	--	--	--	--	42.62	43.18	43.45	43.63	43.68	--
	LOW	--	--	--	--	--	--	42.98	43.34	43.53	43.70	43.75	43.75 (Dec. 9)
2002	HIGH	42.97	42.34	41.60	41.24	41.16	41.30	--	42.57	42.89	42.40	41.41	40.07 (Dec. 31)
	MEAN	43.43	42.59	42.00	41.35	41.23	41.56	--	42.84	43.07	42.66	41.94	42.13
	LOW	43.60	42.94	42.33	41.59	41.29	41.76	--	43.04	43.23	42.85	42.39	43.60 (Jan.1)
2003	HIGH	--	--	--	36.38	--	--	35.47	35.97	36.96	37.17	38.05	35.47 (Jul. 10)
	MEAN	--	--	--	36.89	--	--	--	36.15	37.05	37.59	38.24	--
	LOW	--	--	--	37.52	--	--	36.60	36.52	37.20	38.05	38.37	38.44 (Dec. 31)
2004	HIGH	38.42	38.21	38.21	38.57	38.87	39.20	39.17	39.47	39.57	39.45	39.74	38.21 (Feb. 20)
	MEAN	38.64	38.48	38.43	38.75	39.06	39.32	39.37	39.69	39.79	39.60	39.83	39.22
	LOW	38.86	38.87	38.64	38.98	39.25	39.45	39.57	39.95	39.98	39.76	39.93	39.98 (Sep. 6)
2005	HIGH	39.27	39.05	38.51	37.93	37.97	37.89	37.63	37.84	38.63	39.68	40.25	37.63 (Jul. 14)
	MEAN	39.37	39.27	38.86	38.13	38.06	38.02	37.75	38.16	39.13	39.89	40.56	38.98
	LOW	39.50	39.44	39.10	38.49	38.13	38.13	37.95	38.57	39.63	40.25	40.75	40.78 (Dec. 7)

GREENVILLE COUNTY

WELL NUMBER: GRV-2543

LATITUDE: 35° 07' 34"

GRID NUMBER: 49B-o2

LONGITUDE: 82° 34' 17"

LOCATION: North of Middle Saluda River in Jones Gap State Park, at head of Hospital Rock Trail.

AQUIFER: Metamorphic bedrock and/or transition zone.

WELL CHARACTERISTICS: 6-inch diameter unused well. Depth: 40 ft. Open interval unknown.

DATUM: Land surface is 1,328.7 ft above National Geodetic Vertical Datum of 1929.

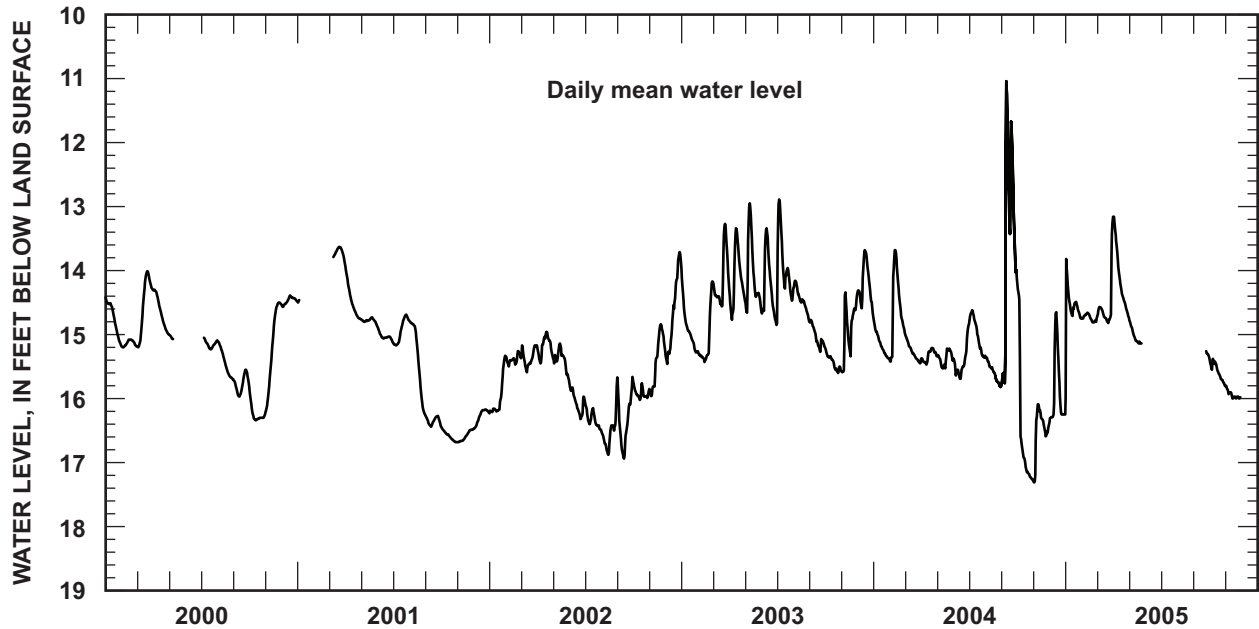
MEASURING POINT: Instrument platform, 1.32 ft above land surface datum.

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: 17.31 ft below land surface datum, November 1, 2004.

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.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	14.42	15.08	14.01	14.30	15.00	--	15.05	15.10	15.55	15.89	14.50	14.39	14.01 (Mar. 20)
	MEAN	14.75	15.14	14.50	14.65	15.04	--	15.15	15.44	15.77	16.25	15.12	14.47	15.12
	LOW	15.18	15.20	15.20	15.00	15.07	--	15.23	15.70	15.97	16.34	16.19	14.57	16.34 (Oct. 12)
2001	HIGH	14.46	--	13.63	13.94	14.73	14.88	14.69	14.79	16.27	16.45	16.48	16.17	13.63 (Mar. 20)
	MEAN	14.48	--	13.72	14.48	14.78	15.03	14.94	15.39	16.35	16.59	16.59	16.27	15.33
	LOW	14.50	--	13.89	14.76	14.86	15.12	15.17	16.26	16.44	16.68	16.68	16.47	16.68 (Oct. 27)
2002	HIGH	15.33	15.26	15.17	14.96	15.14	15.75	16.06	15.67	15.66	15.75	14.84	13.71	13.71 (Dec. 28)
	MEAN	15.98	15.39	15.36	15.18	15.39	16.05	16.32	16.52	16.35	15.92	15.37	14.62	15.70
	LOW	16.21	15.50	15.59	15.45	15.71	16.32	16.49	16.88	16.94	16.02	15.96	15.46	16.94 (Sep. 13)
2003	HIGH	14.11	14.17	13.27	13.34	12.95	13.34	12.89	14.16	14.77	15.22	14.34	13.68	12.89 (Jul. 5)
	MEAN	14.93	15.13	14.12	14.11	14.04	14.24	13.90	14.45	15.03	15.44	14.91	14.21	14.54
	LOW	15.28	15.43	14.56	14.77	14.66	14.85	14.82	14.79	15.27	15.60	15.59	14.72	15.60 (Oct. 25)
2004	HIGH	14.78	13.68	15.00	15.21	15.22	14.83	14.62	15.36	11.04	14.29	16.09	14.65	11.04 (Sep. 9)
	MEAN	15.16	14.54	15.27	15.33	15.37	15.42	14.99	15.60	13.42	16.65	16.45	15.86	15.34
	LOW	15.39	15.42	15.45	15.47	15.53	15.69	15.36	15.82	15.76	17.30	17.31	16.31	17.31 (Nov. 1)
2005	HIGH	13.82	14.66	13.16	13.16	14.78	--	--	--	15.23	15.38	15.80	--	13.16 (Mar. 31)
	MEAN	14.53	14.74	14.53	14.13	--	--	--	--	--	15.58	15.94	--	--
	LOW	14.75	14.81	14.82	14.73	15.14	--	--	--	15.36	15.81	16.00	--	16.00 (Nov. 26)

GREENVILLE COUNTY

WELL NUMBER: GRV-3333

LATITUDE: 35° 09' 57"

GRID NUMBER: 48B-d3

LONGITUDE: 82° 28' 17"

LOCATION: Intersection of Gap Creek Road and U.S. Hwy 25, ½-mile south of North Carolina state line.

AQUIFER: Metamorphic rock.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 260 ft. Open hole below 58 ft.

DATUM: Land surface is 1,872.84 ft above National Geodetic Vertical Datum of 1929.

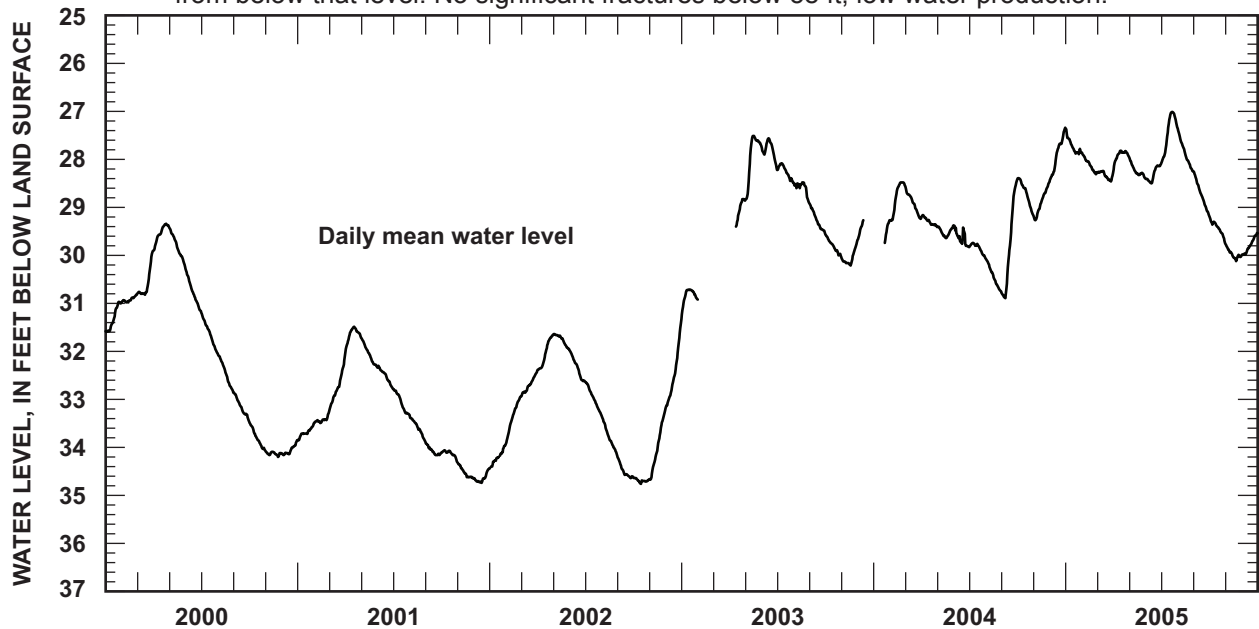
MEASURING POINT: Top of casing, 1.24 ft above land surface datum.

PERIOD OF RECORD: August 1997 to current year.

EXTREMES: Highest water level: 26.18 ft below land surface, May 8, 1998.

Lowest water level: 34.76 ft below land surface, October 15, 2002.

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
2000	HIGH	30.97	30.82	29.91	29.34	29.42	30.28	31.19	32.04	32.86	33.49	34.09	33.85	29.34 (Apr. 25)
	MEAN	31.30	30.92	30.59	29.54	29.81	30.76	31.61	32.44	33.16	33.81	34.13	34.05	31.84
	LOW	31.59	30.98	30.82	29.90	30.24	31.16	32.03	32.86	33.47	34.07	34.20	34.16	34.20 (Nov. 24)
2001	HIGH	33.50	33.29	32.09	31.49	31.72	32.30	32.79	33.33	33.92	34.06	34.33	34.43	31.49 (Apr. 17)
	MEAN	33.69	33.43	32.76	31.65	32.04	32.51	33.06	33.58	34.07	34.13	34.52	34.64	33.34
	LOW	33.85	33.49	33.25	32.01	32.32	32.77	33.31	33.88	34.16	34.31	34.65	34.74	34.74 (Dec. 16)
2002	HIGH	33.93	32.94	32.43	31.67	31.64	31.97	32.63	33.33	34.21	34.63	33.23	31.33	31.33 (Dec. 31)
	MEAN	34.19	33.35	32.71	32.06	31.75	32.32	32.95	33.78	34.50	34.69	33.98	32.48	33.23
	LOW	34.43	33.90	32.94	32.40	31.95	32.62	33.31	34.18	34.64	34.76	34.67	33.19	34.76 (Oct. 15)
2003	HIGH	30.71	--	--	28.83	27.51	27.56	28.09	28.48	28.93	29.57	29.72	29.27	27.51 (May 16)
	MEAN	30.83	--	--	--	27.95	27.79	28.25	28.58	29.26	29.81	30.06	--	--
	LOW	31.23	--	--	29.40	28.86	28.17	28.48	28.91	29.53	30.03	30.21	29.68	31.23 (Jan. 1)
2004	HIGH	29.27	28.48	28.56	29.16	29.38	29.38	29.74	30.07	28.41	28.39	28.47	27.34	27.34 (Dec. 30)
	MEAN	--	28.78	28.92	29.29	29.51	29.63	29.85	30.44	29.76	28.72	28.88	27.88	29.24
	LOW	29.74	29.28	29.24	29.41	29.64	29.83	30.05	30.78	30.89	29.18	29.27	28.43	30.89 (Sep. 7)
2005	HIGH	27.37	27.89	28.24	27.82	27.97	28.10	27.01	27.36	28.27	29.21	29.79	29.53	27.01 (Jul. 21)
	MEAN	27.74	28.11	28.33	27.91	28.24	28.31	27.43	27.87	28.75	29.44	29.98	29.79	28.49
	LOW	27.89	28.31	28.46	28.21	28.39	28.50	28.07	28.25	29.18	29.77	30.12	29.99	30.12 (Nov. 20)

GREENVILLE COUNTY

WELL NUMBER: GRV-3335

LATITUDE: 35° 07' 30"

GRID NUMBER: 49B-o4

LONGITUDE: 82° 34' 26"

LOCATION: South bank of the Middle Saluda River in Jones Gap State Park.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 1,353.52 ft above National Geodetic Vertical Datum of 1929.

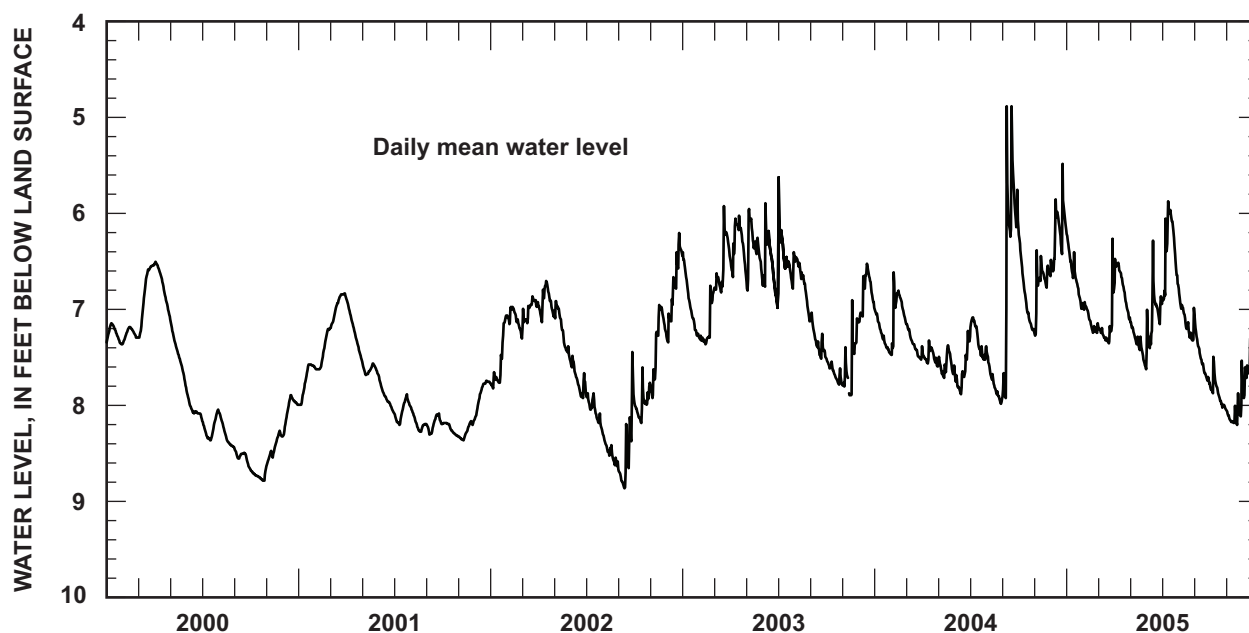
MEASURING POINT: Sanitary seal, 1.06 ft above land surface datum.

PERIOD OF RECORD: August 1997 to current year.

EXTREMES: Highest water level: 4.49 ft below land surface, January 7, 1998.

Lowest water level: 8.97 ft below land surface, September 24, 1999.

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	
2000	HIGH	7.13	7.17	6.52	6.49	7.09	7.83	8.03	8.05	8.45	8.62	8.25	7.88	6.49 (Apr. 3)
	MEAN	7.24	7.24	6.81	6.72	7.45	8.02	8.23	8.28	8.53	8.72	8.42	8.02	7.81
	LOW	7.35	7.34	7.28	7.06	7.80	8.13	8.35	8.43	8.65	8.77	8.60	8.31	8.77 (Oct. 24)
2001	HIGH	7.56	7.19	6.82	6.88	7.53	7.67	7.87	8.00	8.07	8.17	8.14	7.73	6.82 (Mar. 28)
	MEAN	7.72	7.45	6.95	7.19	7.61	7.89	8.04	8.16	8.18	8.23	8.25	7.85	7.79
	LOW	7.98	7.61	7.18	7.51	7.67	8.06	8.19	8.26	8.29	8.31	8.35	8.13	8.35 (Nov. 9)
2002	HIGH	7.05	6.96	6.85	6.69	6.90	7.47	7.86	8.26	7.43	7.59	6.94	6.19	6.19 (Dec. 25)
	MEAN	7.53	7.08	7.00	6.90	7.19	7.71	8.03	8.47	8.45	7.97	7.33	6.76	7.53
	LOW	7.81	7.27	7.29	7.12	7.51	7.91	8.24	8.65	8.85	8.17	7.91	7.33	8.85 (Sep. 12)
2003	HIGH	6.39	6.74	5.91	6.01	5.94	5.88	5.61	6.43	7.02	7.50	6.89	6.51	5.61 (Jul. 12)
	MEAN	6.92	7.19	6.53	6.30	6.35	6.53	6.44	6.69	7.32	7.64	7.55	6.82	6.86
	LOW	7.27	7.35	6.81	6.65	6.79	6.97	6.82	7.11	7.50	7.77	7.88	7.12	7.88 (Nov. 17)
2004	HIGH	6.99	6.60	7.14	7.31	7.36	7.21	7.07	7.43	4.87	6.21	6.37	5.47	4.87 (Sep. 8)
	MEAN	7.25	6.99	7.35	7.48	7.56	7.62	7.29	7.76	6.26	6.86	6.68	6.18	7.11
	LOW	7.45	7.46	7.51	7.58	7.70	7.87	7.51	7.97	7.91	7.24	7.26	6.59	7.97 (Aug. 28)
2005	HIGH	6.22	6.91	6.25	6.46	7.12	6.27	5.86	6.77	7.13	7.48	7.52	7.27	5.86 (Jul. 12)
	MEAN	6.65	7.10	7.17	6.74	7.34	7.04	6.36	7.10	7.53	7.87	8.07	7.52	7.21
	LOW	6.98	7.23	7.34	7.09	7.61	7.42	6.89	7.31	7.79	8.04	8.19	7.91	8.19 (Nov. 20)

GREENVILLE COUNTY

WELL NUMBER: GRV-3342

LATITUDE: 35° 09' 38"

GRID NUMBER: 45B-d2

LONGITUDE: 82° 13' 29"

LOCATION: Oak Grove Road Fire Station of Glassy Mountain Fire District, 8 ft north of GRV-3341.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 1,030.66 ft above National Geodetic Vertical Datum of 1929.

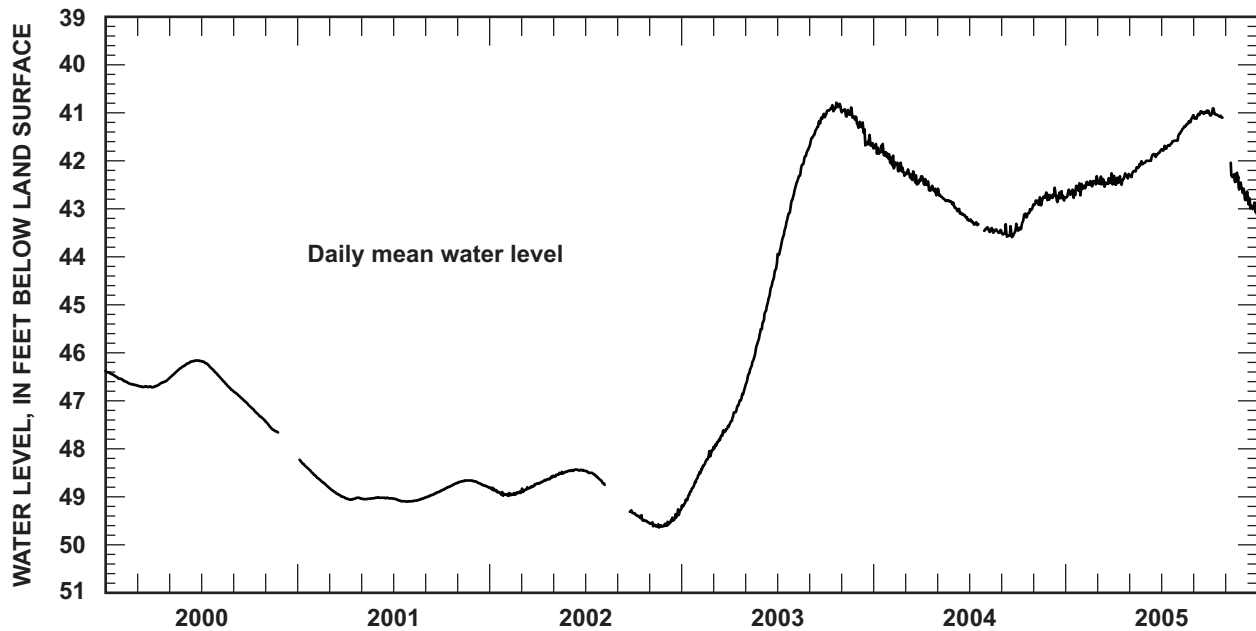
MEASURING POINT: North edge of outer security box, 2.69 ft above land surface datum.

PERIOD OF RECORD: May 1998 to current year.

EXTREMES: Highest water level: 40.08 ft below land surface, June 30, 1998.

Lowest water level: 49.64 ft below land surface, November 18, 2002.

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
2000	HIGH	46.38	46.55	46.68	46.54	46.26	46.16	46.17	46.46	46.81	47.11	47.44	--	46.16 (Jun. 19)
	MEAN	46.47	46.63	46.70	46.64	46.38	46.19	46.29	46.64	46.95	47.27	47.57	--	46.70
	LOW	46.55	46.68	46.72	46.71	46.53	46.25	46.44	46.80	47.10	47.43	47.66	--	47.66 (Nov. 24)
2001	HIGH	48.23	48.55	48.81	49.02	49.02	49.01	49.04	49.02	48.87	48.71	48.66	48.67	48.23 (Jan. 4)
	MEAN	48.38	48.67	48.93	49.04	49.04	49.02	49.08	49.06	48.95	48.79	48.67	48.74	48.86
	LOW	48.54	48.80	49.02	49.06	49.05	49.03	49.10	49.09	49.01	48.87	48.70	48.81	49.10 (Jul. 25)
2002	HIGH	48.81	48.89	48.73	48.57	48.46	48.43	48.46	--	49.28	49.34	49.53	49.24	48.43 (Jun. 12)
	MEAN	48.89	48.94	48.81	48.66	48.52	48.45	48.54	--	49.31	49.44	49.59	49.45	48.96
	LOW	48.98	48.98	48.91	48.72	48.58	48.46	48.66	--	49.34	49.55	49.64	49.60	49.64 (Nov. 18)
2003	HIGH	48.59	48.03	47.52	46.76	45.51	44.19	42.78	41.72	41.02	40.79	40.89	41.19	40.79 (Oct. 22)
	MEAN	48.92	48.29	47.76	47.15	46.15	44.85	43.43	42.18	41.31	40.91	41.03	41.59	44.46
	LOW	49.21	48.55	48.02	47.51	46.72	45.52	44.12	42.73	41.69	41.06	41.23	45.01	49.21 (Jan. 2)
2004	HIGH	41.65	41.89	42.18	42.32	42.58	42.91	43.22	43.39	43.31	42.91	42.66	42.56	41.65 (Jan. 5)
	MEAN	41.81	42.11	42.34	42.53	42.79	43.09	43.31	43.45	43.50	43.18	42.81	42.75	42.81
	LOW	41.95	42.31	42.49	42.72	42.91	43.25	43.46	43.50	43.59	43.45	42.93	42.86	43.59 (Sep. 20)
2005	HIGH	42.47	42.32	42.26	42.26	42.01	41.78	41.58	41.05	40.95	40.91	42.04	42.57	40.91 (Oct. 7)
	MEAN	42.63	42.48	42.44	42.39	42.16	41.91	41.67	41.28	41.02	--	--	42.85	42.08
	LOW	42.77	42.58	42.54	42.50	42.34	42.02	41.79	41.57	41.12	41.10	42.60	43.12	43.12 (Dec. 30)

GREENVILLE COUNTY

WELL NUMBER: GRV-3533

LATITUDE: 34° 55' 27"

GRID NUMBER: 48D-v9

LONGITUDE: 82° 26' 41"

LOCATION: South of Travelers Rest, at Furman University.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 985 ft (map estimate) above National Geodetic Vertical Datum of 1929.

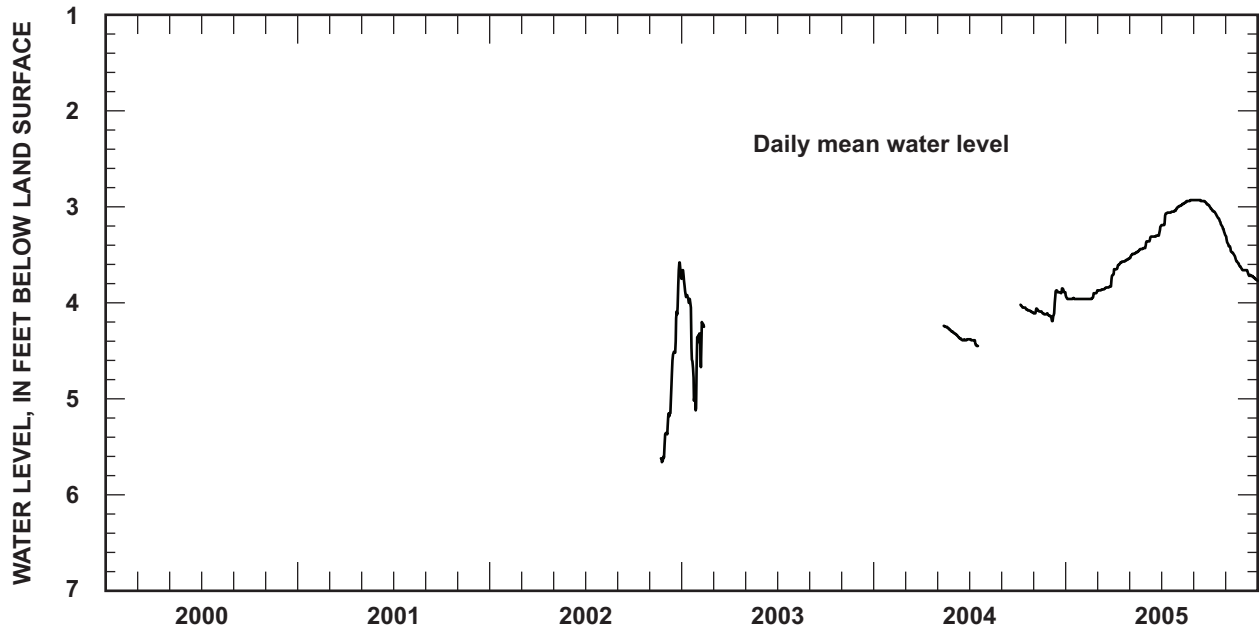
MEASURING POINT: Top of casing, 1.91 ft above land surface datum.

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. Measuring point was 2.2 ft (8/21/02 to 5/12/04), 1.91 ft thereafter.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2002	HIGH	--	--	--	--	--	--	5.60	5.74	5.67	5.37	3.58	3.58 (Dec. 27)	
	MEAN	--	--	--	--	--	--	--	5.80	5.76	5.63	4.54	--	
	LOW	--	--	--	--	--	--	5.74	5.87	5.88	5.71	5.37	5.88 (Oct. 14)	
2003	HIGH	3.66	4.20	--	--	--	--	--	--	--	--	--	3.66 (Jan. 2)	
	MEAN	4.24	--	--	--	--	--	--	--	--	--	--	--	
	LOW	5.12	4.67	--	--	--	--	--	--	--	--	--	5.12 (Jan. 27)	
2004	HIGH	--	--	--	--	4.24	4.31	4.38	--	--	4.02	4.06	3.85	3.85 (Dec. 24)
	MEAN	--	--	--	--	--	4.37	--	--	--	4.07	4.10	3.97	--
	LOW	--	--	--	--	4.31	4.39	4.45	--	--	4.11	4.13	4.19	4.45 (Jul. 17)
2005	HIGH	3.94	3.89	3.71	3.54	3.43	3.20	3.01	2.93	2.93	3.00	3.31	3.65	2.93 (Aug. 25)
	MEAN	3.96	3.94	3.84	3.59	3.47	3.31	3.08	2.96	2.94	3.12	3.50	3.70	3.45
	LOW	3.96	3.96	3.87	3.70	3.54	3.40	3.19	3.00	2.99	3.30	3.64	3.77	3.96 (Feb. 18)

KERSHAW COUNTY

WELL NUMBER: KER-263

LATITUDE: 34° 33' 30"

GRID NUMBER: 24I-i1

LONGITUDE: 80° 26' 37"

LOCATION: Northwest of Bethune, at Mt. Pisgah Elementary School.

AQUIFER: Crystalline rock.

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

DATUM: Land surface is 470 ft (map estimate) above National Geodetic Vertical Datum of 1929.

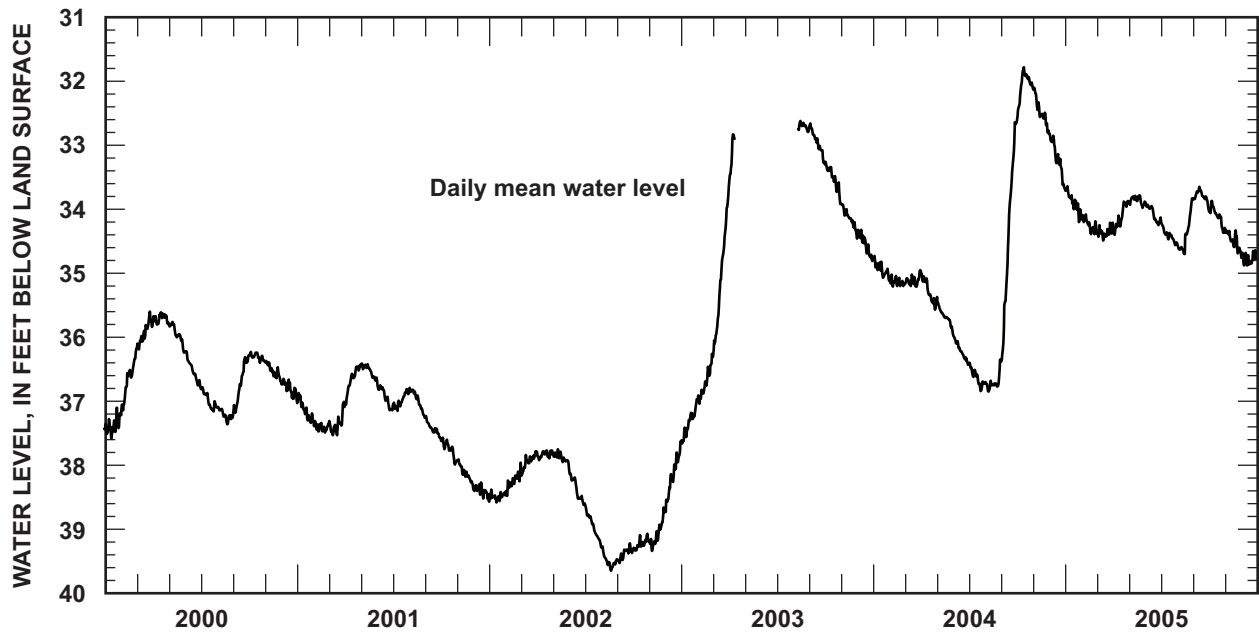
MEASURING POINT: Top of casing, 1.45 ft above land surface datum.

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
2000	HIGH	37.10	36.33	35.60	35.61	35.76	36.22	36.72	37.09	36.31	36.23	36.37	36.65	35.60 (Mar. 28)
	MEAN	37.39	36.74	35.96	35.71	35.92	36.48	36.96	37.20	36.77	36.30	36.51	36.78	36.56
	LOW	37.58	37.22	36.24	35.84	36.23	36.75	37.16	37.36	37.26	36.40	36.64	36.96	37.58 (Jan. 15)
2001	HIGH	36.87	37.31	37.02	36.46	36.41	36.63	36.81	36.79	37.23	37.57	37.91	38.27	36.41 (May 5)
	MEAN	37.12	37.40	37.37	36.71	36.51	36.89	37.00	36.96	37.41	37.73	38.09	38.39	37.30
	LOW	37.34	37.49	37.53	37.09	36.68	37.14	37.15	37.22	37.57	37.99	38.27	38.52	38.52 (Dec. 31)
2002	HIGH	38.38	38.10	37.79	37.77	37.75	37.93	38.60	39.18	39.22	39.07	38.66	37.78	37.75 (May 13)
	MEAN	38.49	38.28	37.97	37.83	37.86	38.32	38.89	39.47	39.39	39.24	39.10	38.24	38.59
	LOW	38.58	38.48	38.25	37.92	37.95	38.60	39.17	39.65	39.53	39.37	39.34	38.74	39.65 (Aug. 22)
2003	HIGH	37.02	36.43	33.96	32.83	--	--	--	32.62	32.66	33.26	33.92	34.32	32.62 (Aug. 17)
	MEAN	37.38	36.77	35.31	33.28	--	--	--	--	32.91	33.47	34.09	34.52	--
	LOW	37.66	37.04	36.41	33.88	--	--	--	32.79	33.27	33.85	34.33	34.79	37.66 (Jan. 4)
2004	HIGH	34.73	35.02	34.97	34.95	35.37	35.88	36.40	36.35	32.64	31.78	32.10	32.77	31.78 (Oct. 15)
	MEAN	--	35.13	35.13	35.25	35.63	36.17	36.61	36.72	34.54	32.08	32.44	33.16	34.81
	LOW	35.07	35.21	35.21	35.57	35.85	36.41	36.84	36.85	36.38	32.65	32.81	33.66	36.85 (Aug. 9)
2005	HIGH	33.64	34.08	34.21	33.88	33.78	33.88	34.13	33.83	33.65	33.87	34.29	34.64	33.64 (Jan. 6)
	MEAN	33.87	34.23	34.37	34.14	33.86	34.05	34.38	34.43	33.78	34.09	34.47	34.77	34.20
	LOW	34.20	34.39	34.49	34.40	33.98	34.25	34.56	34.70	33.92	34.37	34.69	34.88	34.88 (Dec. 14)

LAURENS COUNTY

WELL NUMBER: LRN-1706

LATITUDE: 34° 34' 14"

GRID NUMBER: 44I-b1

LONGITUDE: 82° 06' 50"

LOCATION: Big Knob Fire Tower, west of Gray Court.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 840 ft (map estimate) above National Geodetic Vertical Datum of 1929.

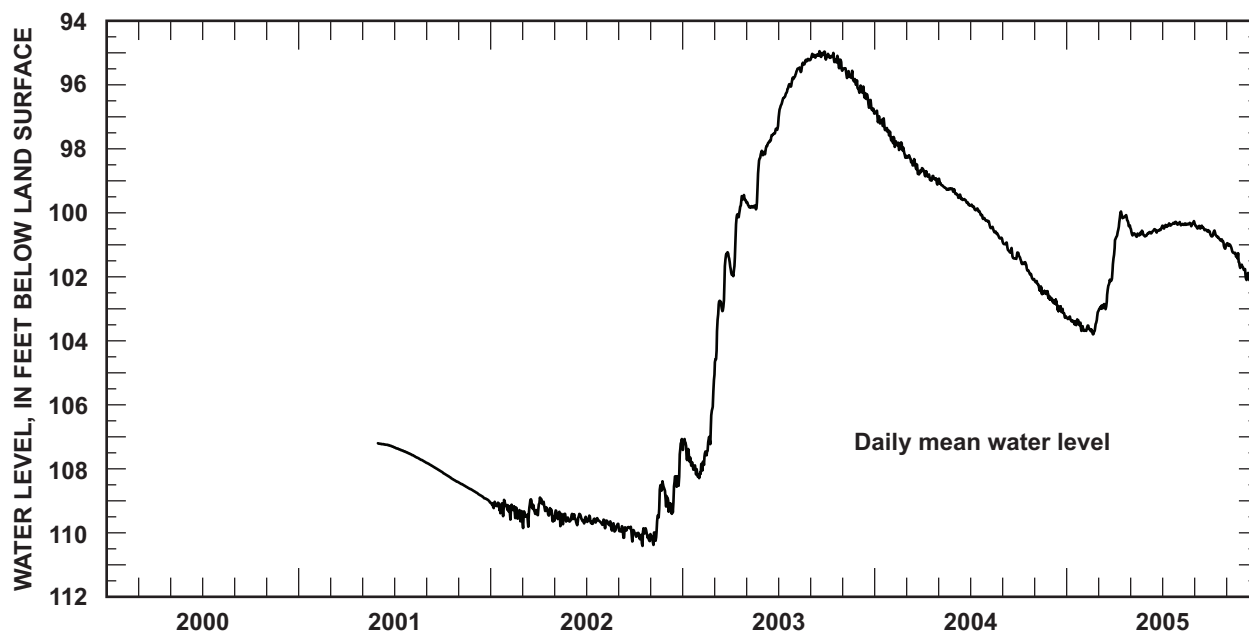
MEASURING POINT: Sanitary seal, flush with concrete pad at land surface datum.

PERIOD OF RECORD: October 2000 to current year.

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

Lowest water level: 110.41 ft below land surface, October 16, 2002.

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
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	107.21	107.33	107.54	107.82	108.11	108.43	108.71	107.21 (Jun.1)
	MEAN	--	--	--	--	107.25	107.43	107.67	107.96	108.27	108.56	108.87	--
	LOW	--	--	--	--	107.32	107.53	107.81	108.10	108.42	108.70	109.06	109.06 (Dec. 31)
2002	HIGH	108.97	109.12	108.95	108.90	109.30	109.41	109.46	109.59	109.79	109.86	108.39	107.07 (Dec. 30)
	MEAN	109.16	109.35	109.36	109.24	109.52	109.56	109.62	109.75	109.92	110.07	109.38	108.49
	LOW	109.48	109.64	109.85	109.65	109.79	109.76	109.73	109.96	110.27	110.41	110.38	110.41 (Oct. 16)
2003	HIGH	107.07	105.58	101.23	99.44	98.06	97.37	95.77	95.19	94.95	95.00	95.48	96.02
	MEAN	107.72	107.32	102.78	100.51	99.38	97.76	96.31	95.42	95.08	95.20	95.74	96.42
	LOW	108.24	108.29	105.22	101.98	99.89	98.20	97.28	95.76	95.21	95.56	96.11	96.90
													94.95 (Sep. 18)
													99.14
													108.29 (Feb. 1)
2004	HIGH	96.81	97.63	98.20	98.62	98.93	99.35	99.74	100.24	100.93	101.33	102.13	102.66
	MEAN	97.21	97.90	98.49	98.88	99.20	99.56	99.98	100.57	101.20	101.74	102.42	102.97
	LOW	97.62	98.28	98.80	99.12	99.34	99.78	100.25	100.89	101.44	102.11	102.71	103.28
													96.81 (Jan. 5)
													100.01
													103.28 (Dec. 28)
2005	HIGH	103.24	103.11	101.31	99.96	100.48	100.44	100.28	100.26	100.38	100.55	100.95	101.70
	MEAN	103.42	103.60	102.53	100.34	100.66	100.58	100.37	100.35	100.49	100.81	101.30	102.04
	LOW	103.69	103.80	103.07	101.10	100.75	100.70	100.49	100.42	100.66	101.12	101.72	102.30
													99.96 (Apr. 13)
													101.37
													103.80 (Feb. 19)

LAURENS COUNTY

WELL NUMBER: LRN-1707

LATITUDE: 34° 22' 52"

GRID NUMBER: 43K-k1

LONGITUDE: 82° 00' 23"

LOCATION: Site of former Mountville fire tower, northwest of Mountville.

AQUIFER: Metamorphic rock.

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

DATUM: Land surface is 660 ft (map estimate) above National Geodetic Vertical Datum of 1929.

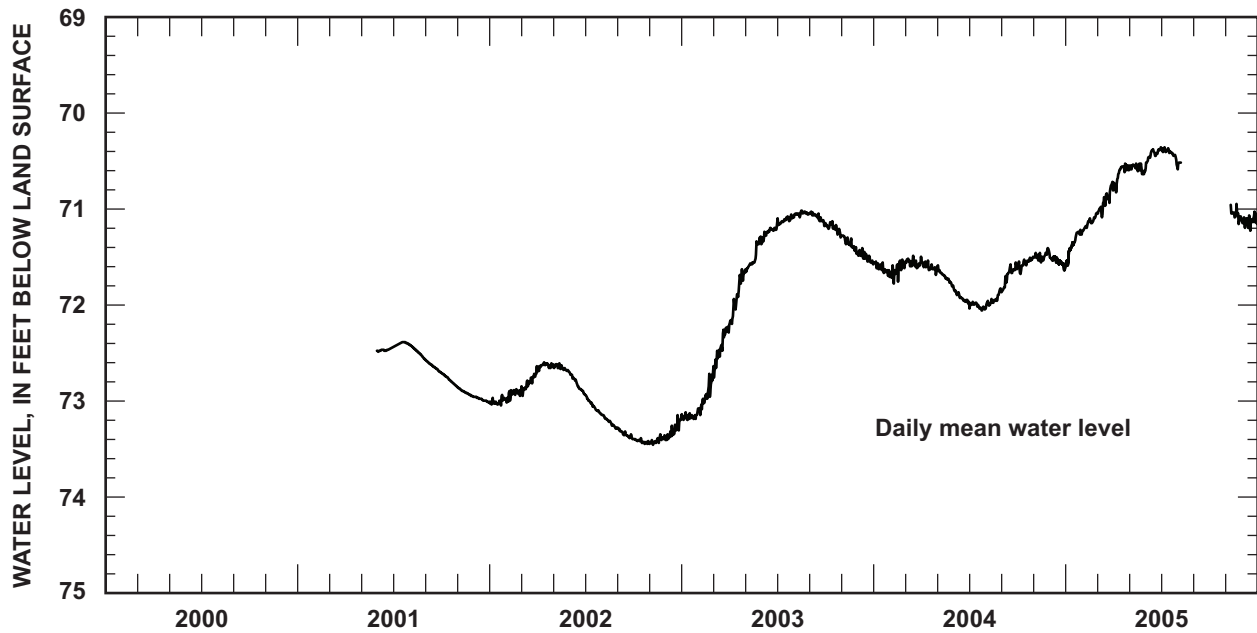
MEASURING POINT: Sanitary seal, flush with concrete pad, 0.75 ft above land surface datum.

PERIOD OF RECORD: May 2001 to current year.

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

Lowest water level: 73.46 ft below land surface, November 7, 2002.

REMARKS: Local topography is flat.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	72.47	72.39	72.42	72.58	72.71	72.86	72.96	72.39 (Jul. 18)
	MEAN	--	--	--	--	--	--	72.49	72.64	72.78	72.91	72.99	--
	LOW	--	--	--	--	72.49	72.41	72.57	72.71	72.86	72.96	73.02	73.02 (Dec. 29)
2002	HIGH	72.94	72.88	72.64	72.60	72.61	72.70	72.94	73.14	73.28	73.39	73.35	72.60 (Apr. 14)
	MEAN	73.01	72.93	72.81	72.64	72.66	72.82	73.05	73.22	73.35	73.42	73.41	73.05
	LOW	73.05	73.02	72.95	72.70	72.70	72.93	73.14	73.29	73.40	73.45	73.46	73.46 (Nov.7)
2003	HIGH	73.10	72.72	72.23	71.63	71.29	71.20	71.06	71.02	71.03	71.13	71.28	71.02 (Aug. 16)
	MEAN	73.17	72.96	72.45	71.92	71.51	71.25	71.12	71.05	71.09	71.20	71.36	71.72
	LOW	73.20	73.15	72.76	72.21	71.66	71.37	71.17	71.09	71.18	71.30	71.47	73.20 (Jan. 12)
2004	HIGH	71.55	71.53	71.49	71.54	71.59	71.83	71.97	71.83	71.56	71.50	71.41	71.41 (Nov. 27)
	MEAN	71.62	71.63	71.56	71.61	71.71	71.92	72.02	71.95	71.69	71.56	71.49	71.69
	LOW	71.71	71.78	71.62	71.69	71.81	71.99	72.06	72.04	71.86	71.68	71.56	72.06 (Jul. 25)
2005	HIGH	71.22	71.05	70.72	70.53	70.53	70.36	70.36	70.52	--	--	70.95	70.36 (Jun. 30)
	MEAN	71.36	71.14	70.92	70.63	70.58	70.43	70.42	--	--	--	71.13	--
	LOW	71.59	71.23	71.09	70.83	70.64	70.58	70.56	70.59	--	--	71.16	71.59 (Jan. 4)

SALUDA COUNTY

WELL NUMBER: SAL-69

LATITUDE: 34° 05' 17"

GRID NUMBER: 39N-u3

LONGITUDE: 81° 40' 13"

LOCATION: Northeast of Saluda, at Hollywood Elementary School.

AQUIFER: Crystalline rock.

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

DATUM: Land surface is 445 ft (map estimate) above National Geodetic Vertical Datum of 1929.

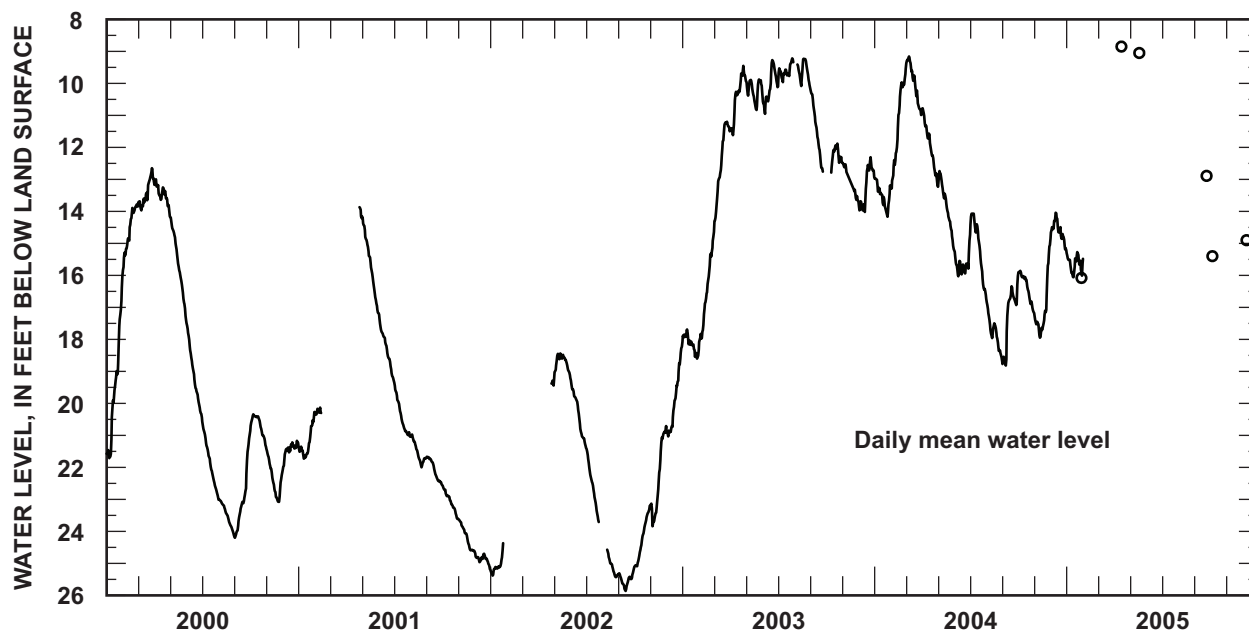
MEASURING POINT: Top of casing, 2.30 ft above land surface datum.

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: 25.89 ft below land surface, October 30, 1993.

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	
2000	HIGH	16.02	13.79	12.65	13.00	14.18	17.49	20.57	23.00	20.86	20.34	21.49	21.17	12.65 (Mar. 27)
	MEAN	19.54	14.56	13.41	13.46	15.61	19.08	21.83	23.49	22.89	20.70	22.40	21.44	19.03
	LOW	21.71	15.83	13.97	14.15	17.41	20.44	22.95	24.16	24.20	21.42	23.08	22.08	24.20 (Sep. 1)
2001	HIGH	20.27	20.13	--	13.87	14.16	17.18	19.35	20.97	21.67	22.57	23.63	24.64	13.87 (Apr. 26)
	MEAN	21.22	--	--	15.60	18.25	20.40	21.52	22.08	23.08	24.17	24.87	--	--
	LOW	21.73	20.35	--	14.21	17.17	19.28	21.04	22.00	22.55	23.62	24.61	25.21	25.21 (Dec. 31)
2002	HIGH	24.37	--	--	19.29	18.44	19.21	21.39	23.85	25.14	23.19	20.71	18.08	18.08 (Dec. 31)
	MEAN	--	--	--	--	18.72	20.29	22.55	24.93	25.52	24.22	22.34	19.87	--
	LOW	25.38	--	--	19.44	19.28	21.34	23.71	25.43	25.86	25.10	23.84	21.03	25.86 (Sep. 14)
2003	HIGH	17.69	14.79	11.20	9.45	9.88	9.27	9.22	9.23	10.23	11.88	12.49	12.31	9.22 (Jul 28)
	MEAN	18.14	16.60	12.45	10.43	10.19	10.11	9.62	9.62	11.53	--	--	13.21	12.19
	LOW	18.60	18.08	14.64	11.62	10.83	10.95	10.10	10.14	12.84	12.79	13.67	14.02	18.60 (Jan. 28)
2004	HIGH	12.97	9.54	9.16	10.78	12.74	14.73	14.07	16.84	15.90	15.86	14.85	14.04	9.16 (Mar. 6)
	MEAN	13.51	11.29	10.01	11.98	13.85	15.65	15.13	17.84	17.16	16.42	17.00	14.63	14.54
	LOW	14.17	13.29	10.99	13.23	15.21	16.03	16.73	18.77	18.82	17.27	17.95	15.30	18.82 (Sep. 6)
2005	HIGH	15.27	--	--	--	--	--	--	--	--	--	--	--	8.85 (Apr. 14)
	MEAN	15.63	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	16.06	--	--	--	--	--	--	--	--	--	--	--	16.08 (Jan. 28)

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. Northwest of the Fall Line, the system comprises saprolite and scattered alluvial deposits; there the lithologic and hydrologic contrast between bedrock and overlying formations simplifies distinction of the shallow aquifer system.

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. The 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.

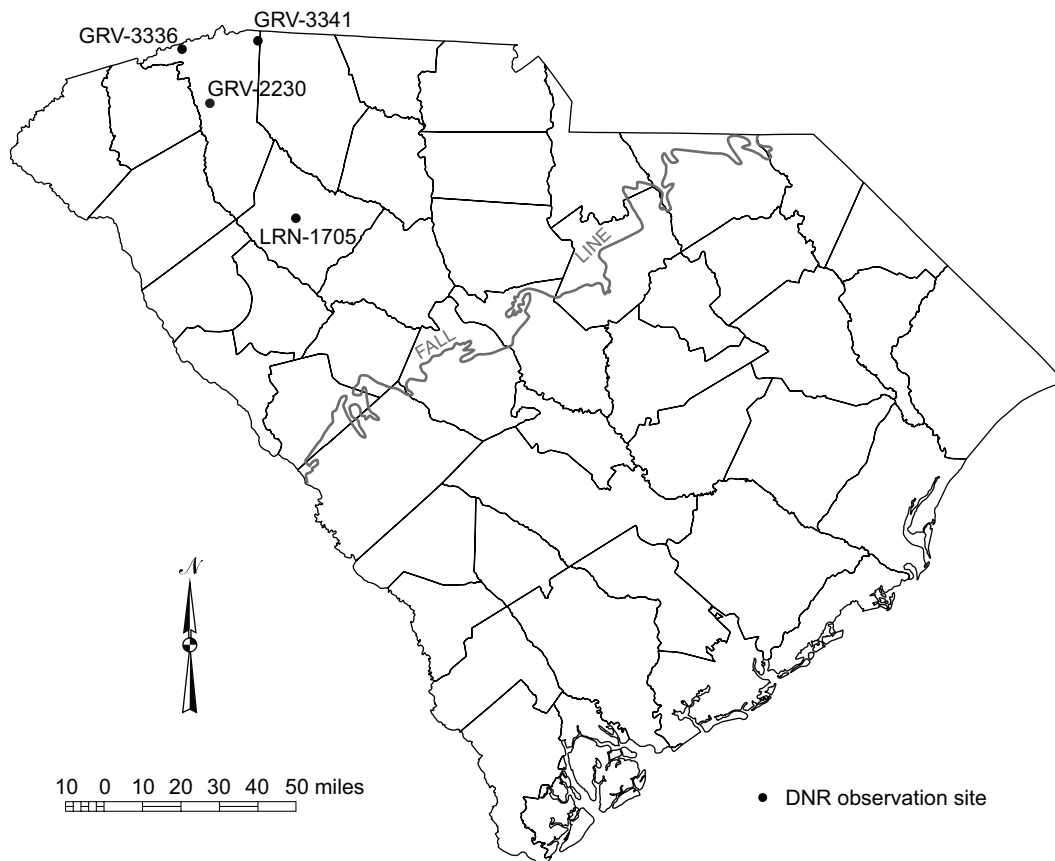


Figure 5. Locations of shallow aquifer observation wells in the Piedmont province.

GREENVILLE COUNTY

WELL NUMBER: GRV-2230

LATITUDE: 34° 55' 27"

GRID NUMBER: 48D-v2

LONGITUDE: 82° 26' 41"

LOCATION: South of Travelers Rest at Furman University.

AQUIFER: Saprolite.

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

DATUM: Land surface is 985 ft (map estimate) above National Geodetic Vertical Datum of 1929.

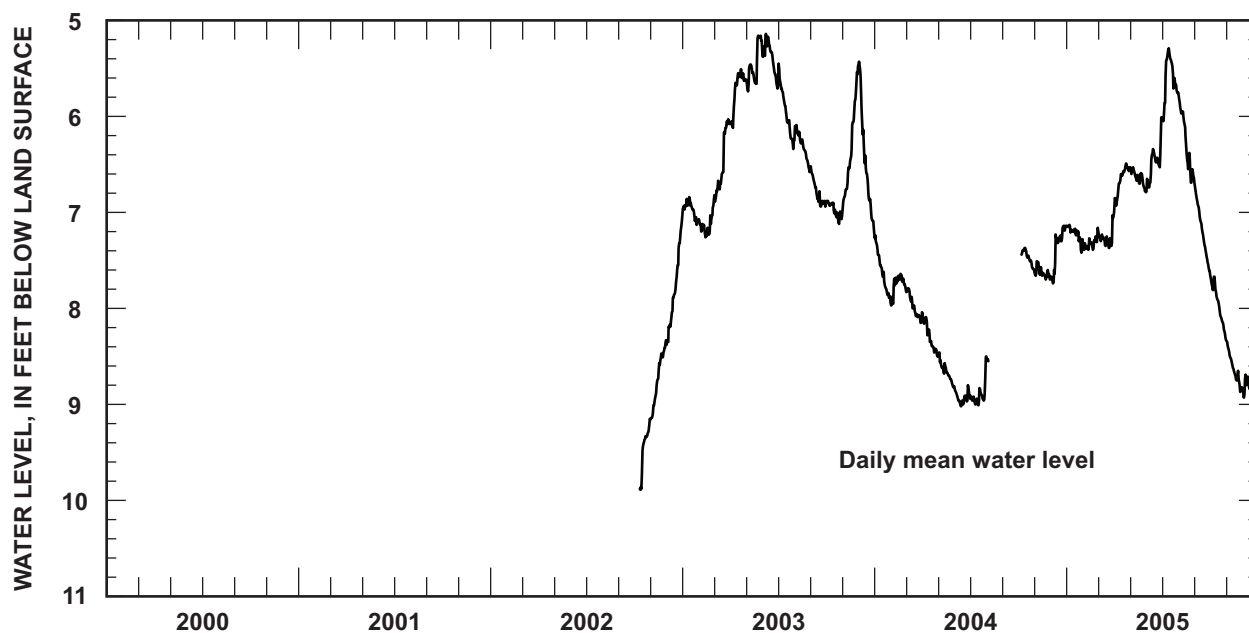
MEASURING POINT: Top of casing, 2.4 ft above land surface datum.

PERIOD OF RECORD: August 2002 to current year.

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

Lowest water level: 10.3 ft below land surface, September 13, 2002.

REMARKS: Rainfall also monitored at this site.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2002	HIGH	--	--	--	--	--	--	9.93	9.79	9.15	8.33	7.02	7.02 (Dec. 31)	
	MEAN	--	--	--	--	--	--	--	10.08	9.59	8.72	7.79	--	
	LOW	--	--	--	--	--	--	10.12	10.30	9.90	9.15	8.38	10.30 (Sep. 13)	
2003	HIGH	6.84	6.93	6.03	5.51	5.16	5.14	5.45	6.09	6.52	6.88	5.48	5.43	5.14 (Jun. 8)
	MEAN	6.97	7.14	6.48	5.73	5.46	5.38	5.94	6.31	6.80	6.98	6.33	6.46	6.33
	LOW	7.13	7.26	6.89	6.12	5.74	5.71	6.34	6.58	6.94	7.12	6.95	7.22	7.26 (Feb. 13)
2004	HIGH	7.24	7.64	7.79	8.07	8.46	8.80	8.50	8.52	--	7.37	7.51	7.14	7.14 (Dec. 25)
	MEAN	7.62	7.75	7.98	8.30	8.66	8.93	8.90	8.53	--	7.48	7.63	7.35	8.10
	LOW	7.94	7.97	8.15	8.50	8.82	9.02	9.01	8.55	--	7.63	7.70	7.74	9.02 (Jun. 13)
2005	HIGH	7.13	7.16	7.00	6.49	6.53	6.01	5.29	5.79	6.74	7.67	8.35	8.54	5.29 (Jul. 13)
	MEAN	7.23	7.33	7.26	6.66	6.64	6.48	5.61	6.28	7.21	7.98	8.64	8.71	7.17
	LOW	7.42	7.39	7.37	6.93	6.79	6.75	6.05	6.70	7.66	8.34	8.87	8.93	8.93 (Dec. 3)

GREENVILLE COUNTY

WELL NUMBER: GRV-3336

LATITUDE: 35° 07' 30"

GRID NUMBER: 49B-o5

LONGITUDE: 82° 34' 26"

LOCATION: South bank of the Middle Saluda River in Jones Gap State Park, 9 ft east of GRV-3335.

AQUIFER: Saprolite.

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

DATUM: Land surface is 1,353.32 ft above National Geodetic Vertical Datum of 1929.

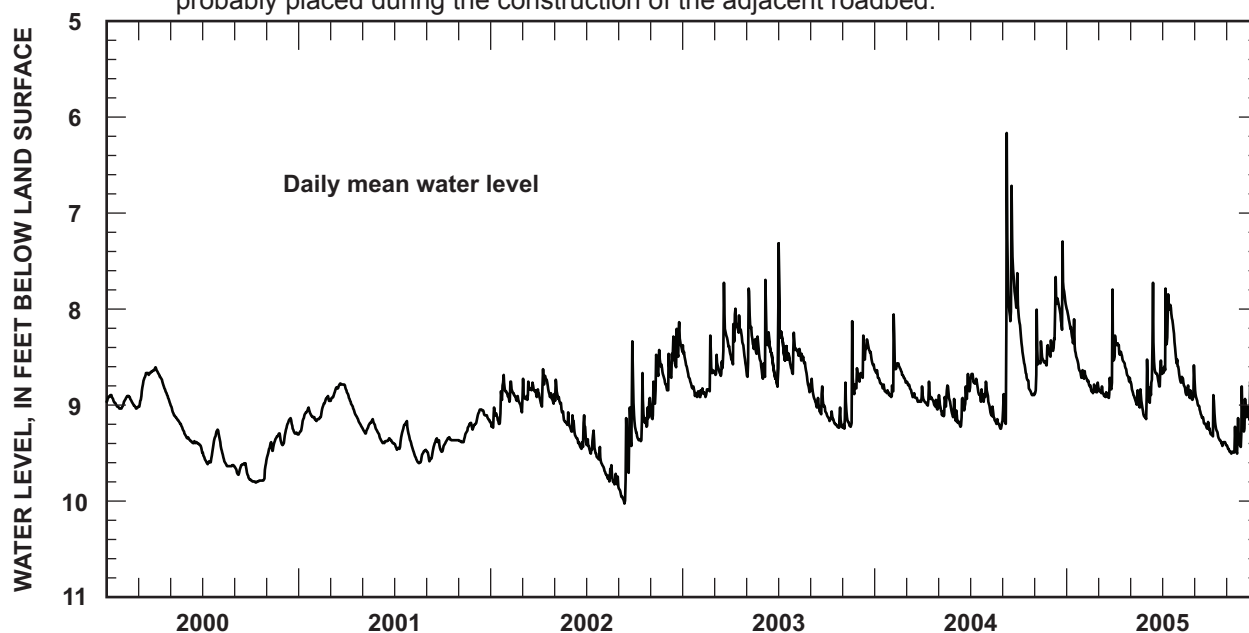
MEASURING POINT: Sanitary seal, 2.08 ft above land surface datum.

PERIOD OF RECORD: August 1997 to current year.

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

Lowest water level: 10.04 ft below land surface, September 17, 1999.

REMARKS: The saprolite in which the well is screened underlies blocks of granitic gneiss, probably placed during the construction of the adjacent roadbed.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	8.90	8.91	8.64	8.61	8.99	9.34	9.26	9.30	9.61	9.58	9.14	8.61 (Apr. 3)	
	MEAN	8.98	8.97	8.76	8.77	9.17	9.39	9.49	9.56	9.68	9.77	9.40	9.27	
	LOW	9.04	9.04	9.02	8.98	9.33	9.48	9.62	9.64	9.78	9.81	9.55	9.42	9.81 (Oct. 10)
2001	HIGH	9.03	8.91	8.78	8.85	9.15	9.30	9.17	9.38	9.35	9.34	9.19	9.05	8.78 (Mar. 20)
	MEAN	9.14	9.05	8.84	9.05	9.23	9.37	9.34	9.52	9.47	9.38	9.30	9.12	9.23
	LOW	9.30	9.17	8.96	9.23	9.30	9.40	9.47	9.61	9.59	9.48	9.39	9.21	9.61 (Aug. 17)
2002	HIGH	8.69	8.76	8.73	8.63	8.74	9.11	9.27	9.63	8.34	8.67	8.43	8.14	8.14 (Dec. 25)
	MEAN	9.03	8.92	8.87	8.86	9.04	9.31	9.48	9.74	9.55	9.19	8.76	8.51	9.11
	LOW	9.24	9.06	9.08	9.02	9.23	9.46	9.62	9.85	10.03	9.38	9.15	8.85	10.03 (Sep. 12)
2003	HIGH	8.38	8.28	7.73	8.00	7.79	7.70	7.32	8.34	8.73	9.03	8.13	8.28	7.32 (Jul. 2)
	MEAN	8.73	8.80	8.48	8.32	8.38	8.51	8.41	8.56	8.96	9.17	8.98	8.53	8.65
	LOW	8.92	8.92	8.70	8.58	8.71	8.81	8.68	8.87	9.10	9.24	9.25	8.76	9.25 (Nov. 4)
2004	HIGH	8.64	8.06	8.76	8.76	8.80	8.68	8.68	8.85	6.17	8.09	8.01	7.30	6.17 (Sep. 8)
	MEAN	8.79	8.65	8.89	8.96	9.00	9.02	8.82	9.12	7.99	8.64	8.52	8.04	8.70
	LOW	8.91	8.92	8.97	9.05	9.13	9.23	8.97	9.25	9.20	8.90	8.88	8.44	9.25 (Aug. 28)
2005	HIGH	8.02	8.65	7.80	8.28	8.77	7.73	7.79	8.59	8.85	8.90	8.81	8.76	7.73 (Jun. 13)
	MEAN	8.41	8.79	8.79	8.53	8.96	8.68	8.30	8.81	9.11	9.31	9.40	9.07	8.85
	LOW	8.72	8.88	8.93	8.76	9.15	8.98	8.67	8.95	9.29	9.43	9.51	9.28	9.51 (Nov. 20)

GREENVILLE COUNTY

WELL NUMBER: GRV-3341

LATITUDE: 35° 09' 38"

GRID NUMBER: 45B-d1

LONGITUDE: 82° 13' 29"

LOCATION: Oak Grove Road Fire Station of Glassy Mountain Fire District.

AQUIFER: 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.

DATUM: Land surface is 1,030.66 ft above National Geodetic Vertical Datum of 1929.

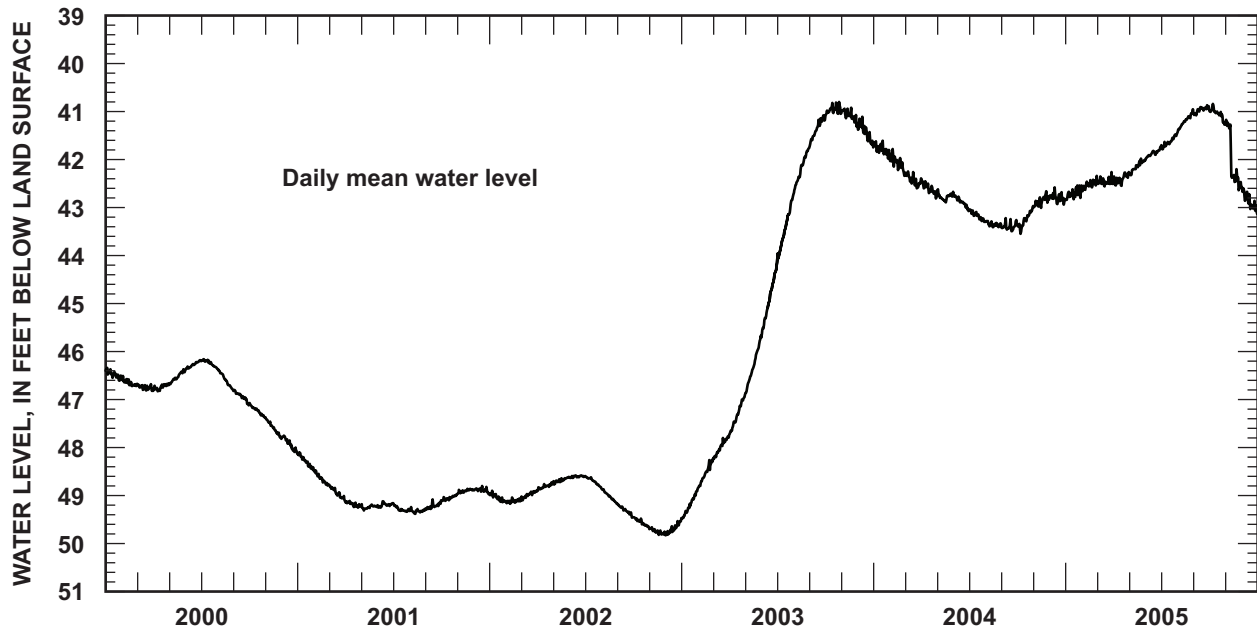
MEASURING POINT: Sanitary seal, 2.72 ft above land surface datum.

PERIOD OF RECORD: May 1998 to current year.

EXTREMES: Highest water level: 40.02 ft below land surface, June 30, 1998.

Lowest water level: 49.83 ft below land surface, December 1, 2002.

REMARKS: Total saprolite thickness is 132 ft.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	46.34	46.51	46.67	46.67	46.37	46.18	46.16	46.37	46.80	47.07	47.40	47.75	46.16 (Jul. 5)
	MEAN	46.47	46.65	46.75	46.74	46.53	46.28	46.24	46.59	46.94	47.24	47.60	47.93	46.83
	LOW	46.61	46.72	46.82	46.83	46.68	46.38	46.36	46.82	47.12	47.38	47.82	48.14	48.14 (Dec. 31)
2001	HIGH	48.10	48.48	48.77	49.11	49.18	49.12	49.16	49.24	49.08	48.97	48.86	48.80	48.10 (Jan. 3)
	MEAN	48.29	48.65	48.94	49.18	49.24	49.19	49.28	49.32	49.22	49.05	48.90	48.89	49.01
	LOW	48.48	48.79	49.11	49.25	49.31	49.25	49.34	49.38	49.29	49.11	48.96	48.97	49.38 (Aug. 11)
2002	HIGH	48.90	49.04	48.89	48.73	48.61	48.58	48.59	48.85	49.17	49.45	49.66	49.47	48.58 (Jun. 13)
	MEAN	49.04	49.12	48.98	48.81	48.68	48.60	48.70	49.01	49.31	49.56	49.75	49.68	49.10
	LOW	49.14	49.17	49.11	48.91	48.77	48.63	48.83	49.18	49.46	49.70	49.82	49.83	49.83 (Dec. 1)
2003	HIGH	48.85	48.26	47.77	46.95	45.67	44.23	42.78	41.76	41.08	40.80	40.92	41.11	40.80 (Oct. 27)
	MEAN	49.20	48.55	47.99	47.34	46.33	44.96	43.46	42.20	41.36	40.96	41.08	41.44	44.57
	LOW	49.48	48.84	48.24	47.73	46.90	45.71	44.15	42.73	41.72	41.08	41.31	41.75	49.48 (Jan. 2)
2004	HIGH	41.61	41.78	42.25	42.42	42.62	42.75	43.04	43.28	43.22	42.97	42.66	42.58	41.61 (Jan. 18)
	MEAN	41.79	42.07	42.42	42.61	42.77	42.88	43.17	43.35	43.39	43.24	42.86	42.80	42.78
	LOW	41.98	42.34	42.60	42.81	42.89	43.07	43.30	43.42	43.49	43.55	43.01	42.94	43.55 (Oct. 6)
2005	HIGH	42.54	42.34	42.26	42.26	41.98	41.73	41.45	40.95	40.87	40.84	41.17	42.57	40.84 (Oct. 7)
	MEAN	42.70	42.53	42.46	42.41	42.14	41.87	41.63	41.19	40.96	41.05	42.06	42.87	41.99
	LOW	42.84	42.66	42.56	42.55	42.33	42.00	41.79	41.42	41.08	41.27	42.64	43.13	43.13 (Dec. 30)

LAURENS COUNTY

WELL NUMBER: LRN-1705

LATITUDE: 34° 29' 26"

GRID NUMBER: 43J-c2

LONGITUDE: 82° 02' 35"

LOCATION: Joe R. Adair Outdoor Education Center, Laurens.

AQUIFER: Quaternary alluvium.

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

DATUM: Land surface is 638.73 ft above National Geodetic Vertical Datum of 1929.

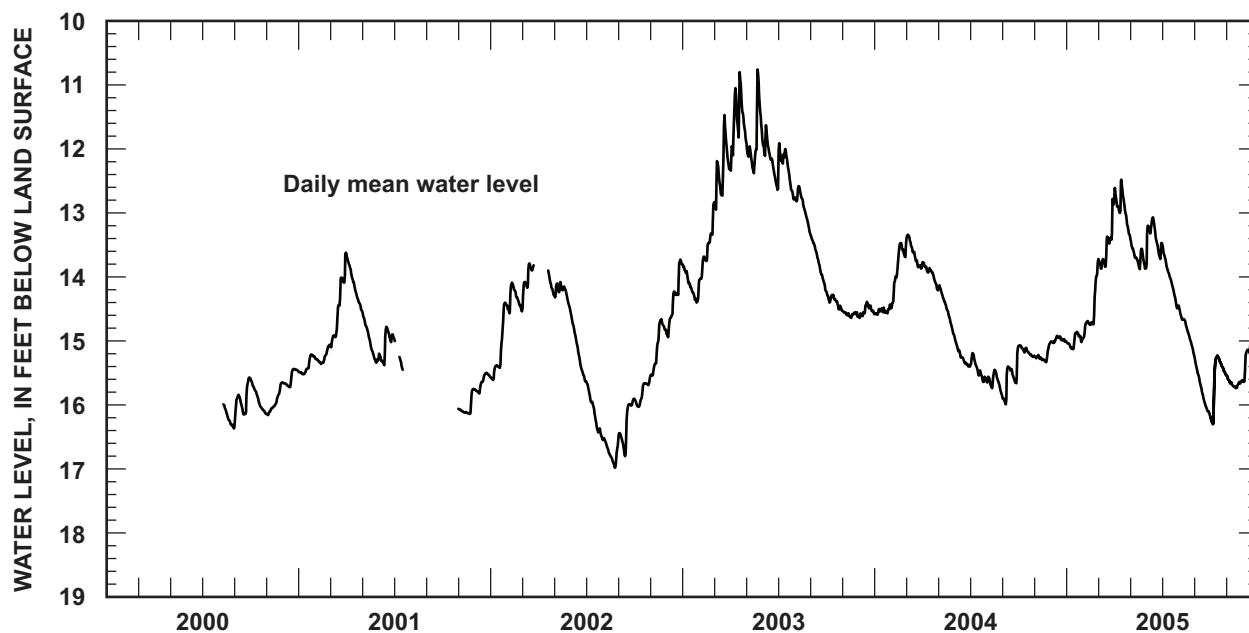
MEASURING POINT: Instrument platform, 2.82 ft above land surface datum.

PERIOD OF RECORD: August 2000 to current year.

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

Lowest water level: 16.98 ft below land surface, August 25, 2002.

REMARKS: In body of well-sorted sand, at least 40 feet deep, of unknown extent.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	15.99	15.57	15.60	15.65	15.44	15.44 (Dec. 21)
	MEAN	--	--	--	--	--	--	--	15.92	15.91	15.96	15.58	--
	LOW	--	--	--	--	--	--	16.37	16.25	16.14	16.16	15.72	16.37 (Aug. 30)
2001	HIGH	15.21	15.06	13.62	13.64	14.54	14.78	14.97	--	--	15.75	15.50	13.62 (Mar. 31)
	MEAN	15.39	15.26	14.51	14.11	14.99	15.07	--	--	--	16.04	15.64	--
	LOW	15.52	15.36	15.10	14.52	15.34	15.38	15.45	--	--	16.14	15.82	16.14 (Nov. 21)
2002	HIGH	14.40	14.09	13.79	13.90	14.08	14.53	15.00	16.52	15.90	15.55	14.66	13.73 (Dec. 27)
	MEAN	15.15	14.34	--	--	14.24	15.13	16.08	16.73	16.29	15.81	15.06	14.34
	LOW	15.61	14.57	14.54	14.28	14.49	15.63	16.51	16.98	16.80	16.03	15.54	16.98 (Aug. 25)
2003	HIGH	13.81	12.88	11.47	10.80	10.76	11.63	11.91	12.58	13.35	14.23	14.53	10.76 (May 23)
	MEAN	14.13	13.63	12.35	11.56	11.84	12.14	12.30	12.89	13.76	14.38	14.58	13.17
	LOW	14.40	14.05	12.95	12.34	12.38	12.64	12.79	13.32	14.22	14.53	14.64	14.64 (Nov. 17)
2004	HIGH	14.43	13.47	13.34	13.77	14.13	14.95	15.19	15.45	15.08	15.07	15.02	13.34 (Mar. 4)
	MEAN	14.53	13.86	13.63	13.94	14.49	15.24	15.44	15.64	15.57	15.16	15.24	14.98
	LOW	14.59	14.49	13.87	14.21	14.91	15.40	15.64	15.89	15.99	15.25	15.33	15.99 (Sep. 6)
2005	HIGH	14.86	13.78	12.78	12.48	13.41	13.07	13.50	14.45	15.30	15.23	15.55	12.48 (Apr. 14)
	MEAN	14.99	14.57	13.52	12.91	13.68	13.37	14.03	14.82	15.80	15.57	15.66	14.50
	LOW	15.13	14.95	13.87	13.35	13.88	13.79	14.49	15.25	16.18	16.30	15.74	16.30 (Oct. 5)

COASTAL PLAIN WATER LEVELS

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 formations. 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 no part of the formation crops out in South Carolina. Structure contours on the top of the aquifer are shown in Figure 6. 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 the overlying Middendorf aquifer, and it is likely to contain more highly mineralized water.

ALL-348 and BRN-1878 are the only observation wells known to be completed solely in the Cape Fear (Fig.7). 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. Well BFT-2055, at Hilton Head Island, is screened in both the Cape Fear and Middendorf systems; measurements therefore reflect composite water levels. They are 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.

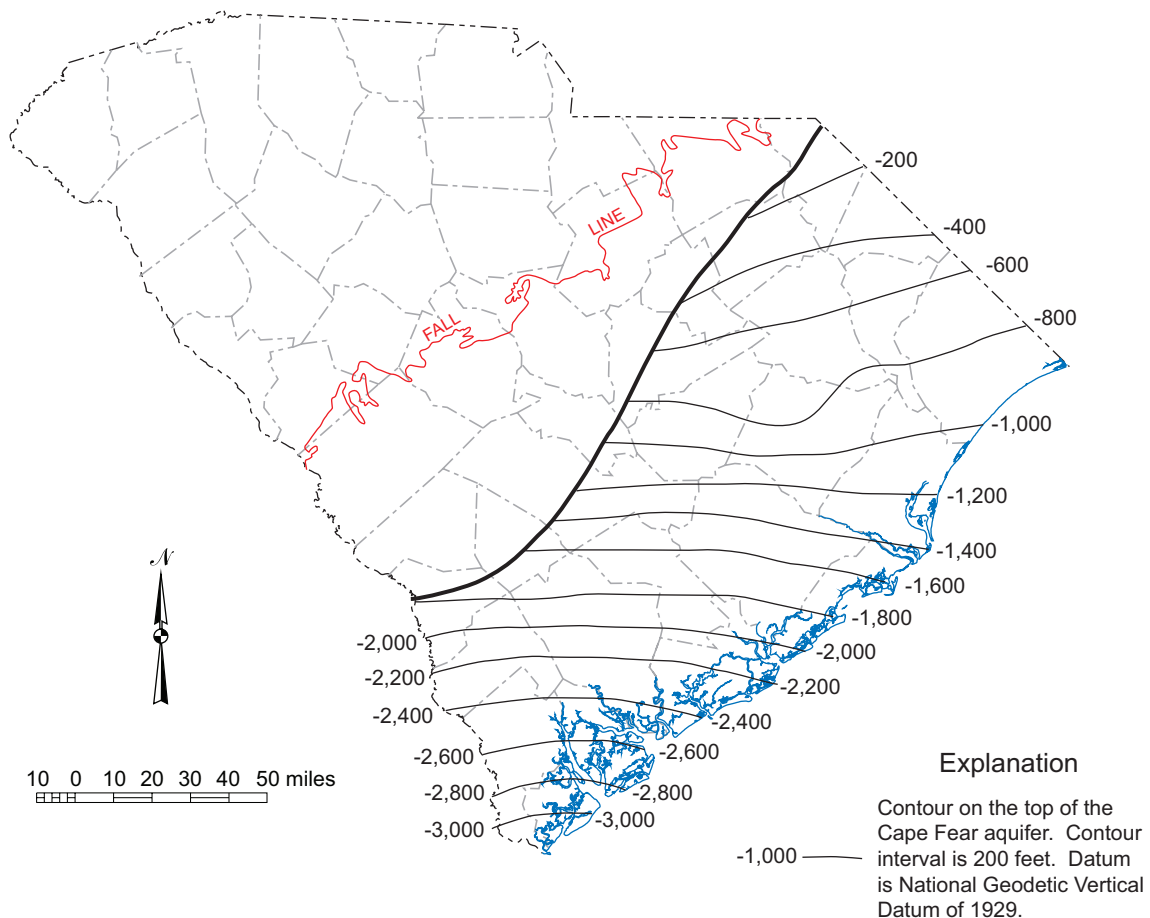


Figure 6. Contours on top of the Cape Fear aquifer (from Aucott and others, 1987).

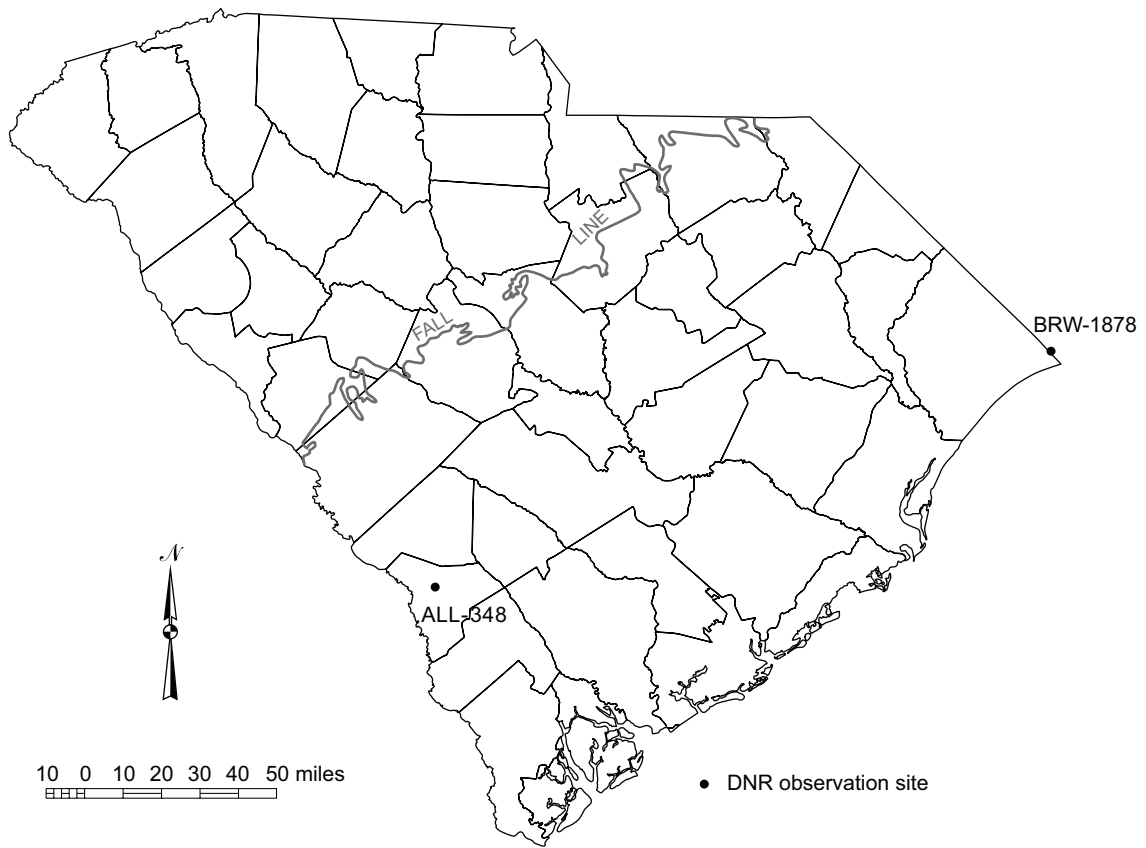


Figure 7. Locations of Cape Fear aquifer observation wells.

ALLENDALE COUNTY

WELL NUMBER: ALL-348

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q3

LONGITUDE: 81° 23' 04"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Cape Fear.

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

DATUM: Land surface is 280.50 ft above National Geodetic Vertical Datum of 1929.

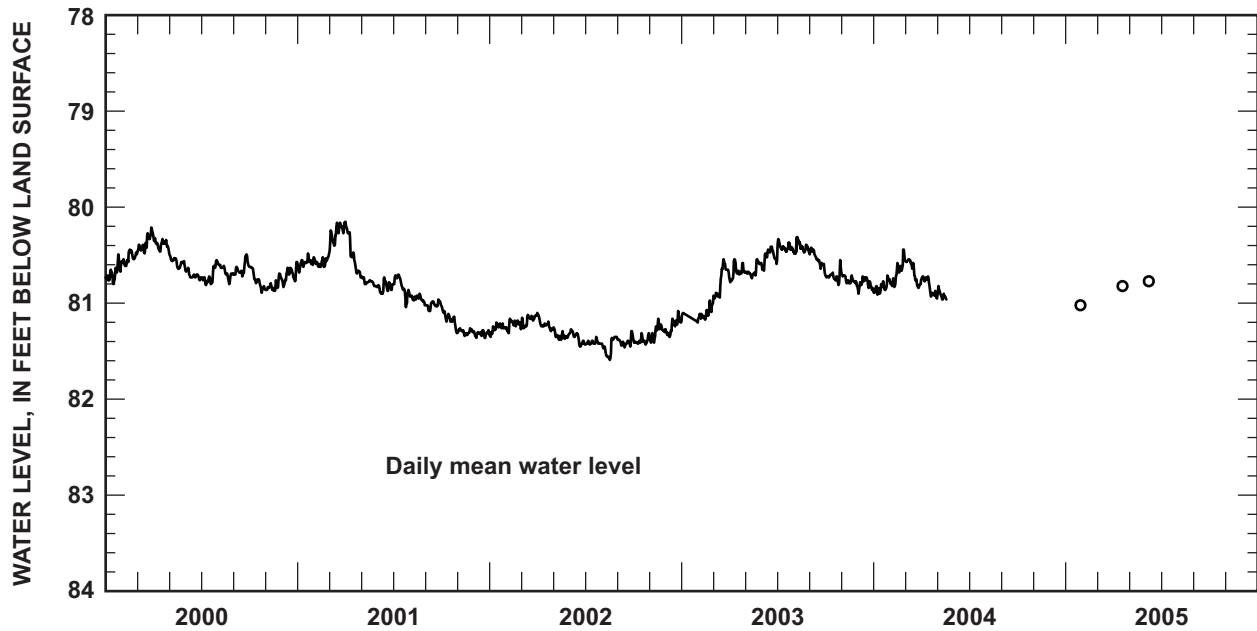
MEASURING POINT: Top of casing, 2.80 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

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

Lowest water level: 81.59 ft below land surface, August 1, 1996.

REMARKS: 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
2000	HIGH	80.49	80.44	80.21	80.31	80.48	80.63	80.55	80.57	80.49	80.62	80.69	80.57	80.21 (Mar. 28)
	MEAN	80.68	80.53	80.37	80.38	80.57	80.71	80.72	80.67	80.63	80.76	80.81	80.71	80.63
	LOW	80.80	80.61	80.48	80.46	80.64	80.76	80.81	80.80	80.72	80.89	80.87	80.83	80.89 (Oct. 24)
2001	HIGH	80.48	80.51	80.16	80.15	80.72	80.73	80.70	80.90	80.96	81.03	81.26	81.28	80.15 (Apr. 1)
	MEAN	80.58	80.57	80.27	80.48	80.78	80.83	80.81	80.95	81.01	81.16	81.29	81.32	80.84
	LOW	80.68	80.62	80.48	80.73	80.83	80.90	81.04	81.02	81.08	81.31	81.34	81.36	81.36 (Dec. 6)
2002	HIGH	81.20	81.16	81.12	81.10	81.25	81.27	81.35	81.35	81.29	81.31	81.16	81.08	81.08 (Dec. 25)
	MEAN	81.26	81.22	81.18	81.22	81.33	81.36	81.41	81.45	81.40	81.39	81.30	81.24	81.31
	LOW	81.35	81.31	81.27	81.29	81.38	81.45	81.43	81.59	81.46	81.43	81.41	81.35	81.59 (Aug. 17)
2003	HIGH	81.10	80.97	80.54	80.54	80.54	80.41	80.33	80.31	80.42	80.55	80.70	80.72	80.31 (Aug. 8)
	MEAN	--	81.11	80.77	80.67	80.66	80.52	80.42	80.42	80.53	80.72	80.76	80.80	80.67
	LOW	81.20	81.17	81.00	80.78	80.74	80.66	80.56	80.48	80.69	80.81	80.82	80.90	81.20 (Jan. 31)
2004	HIGH	80.71	80.44	80.54	80.72	80.82	--	--	--	--	--	--	--	80.44 (Feb. 26)
	MEAN	80.83	80.68	80.67	--	--	--	--	--	--	--	--	--	--
	LOW	80.91	80.83	80.84	80.95	80.96	--	--	--	--	--	--	--	80.96 (May 18)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

BRUNSWICK COUNTY, N.C.

WELL NUMBER: BRW-1878

LATITUDE: 33° 53' 33"

GRID NUMBER: 2Q-j6

LONGITUDE: 78° 35' 23"

LOCATION: N.C. Department of Environment and Natural Resources well cluster, Calabash.

AQUIFER: Cape Fear.

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 1,140 ft. Screened from 1,042 to 1,052 ft.

DATUM: Land surface is 48.27 ft above National Geodetic Vertical Datum of 1929.

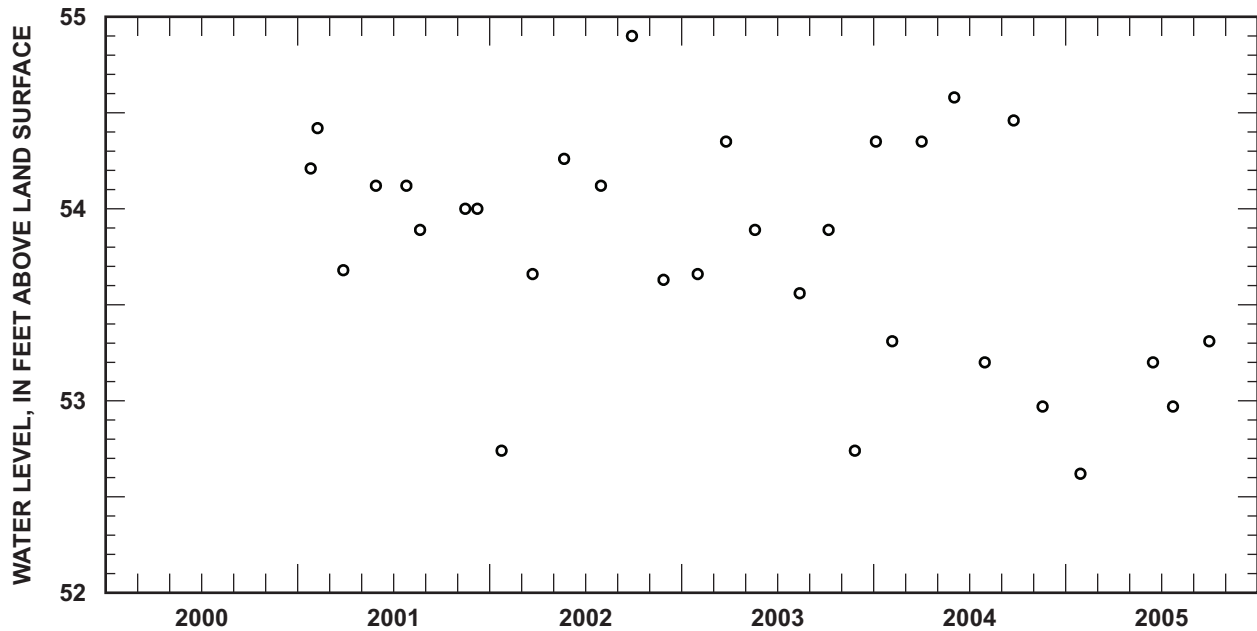
MEASURING POINT: Top of 4-inch casing, 2.30 ft above land surface datum.

PERIOD OF RECORD: January 2001 to current year.

EXTREMES: Highest water level: 54.9 ft above land surface, September 27, 2002.

Lowest water level: 52.62 ft above land surface, January 27, 2005.

REMARKS: Flowing well. Measured with 0-30 psi gage.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

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. 8). 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.

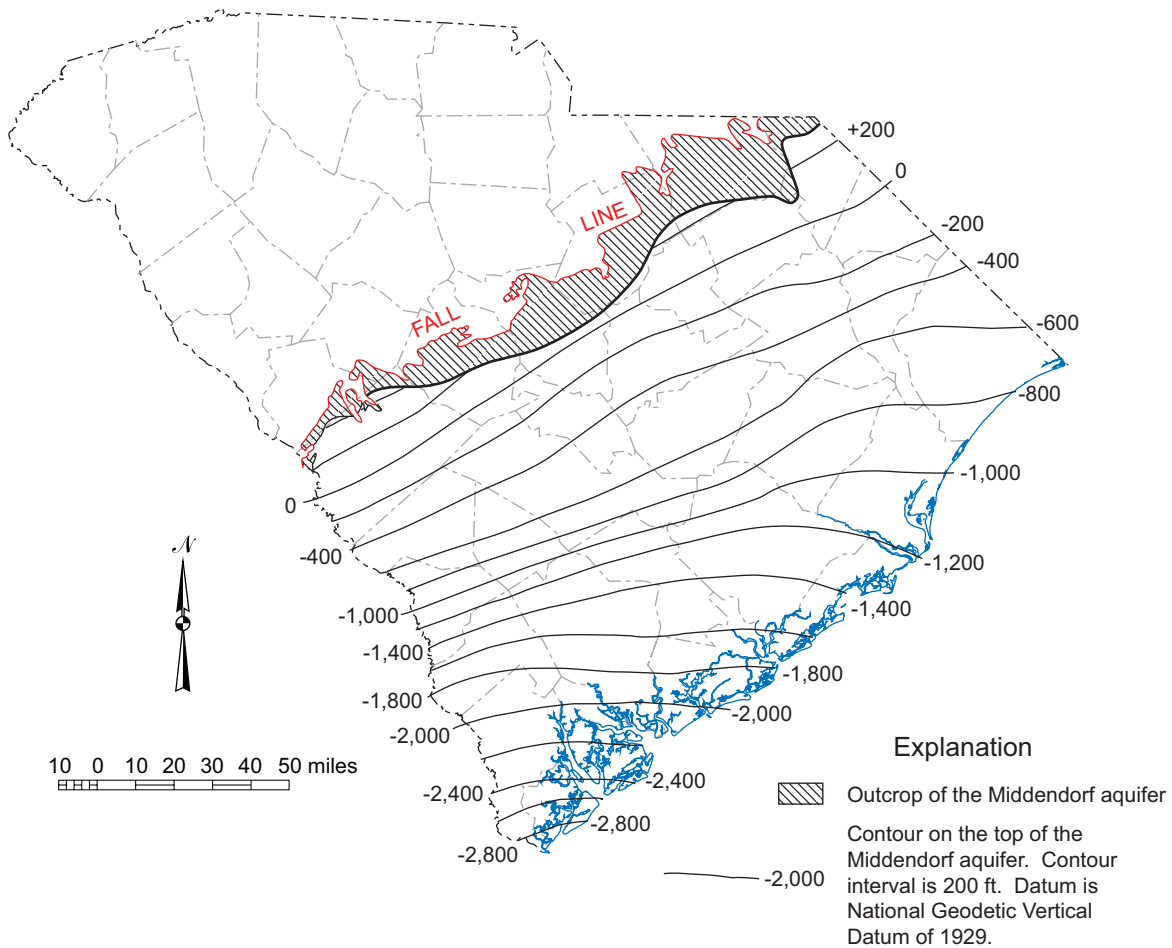


Figure 8. Contours on top of the Middendorf aquifer (from Aucott and others, 1987).

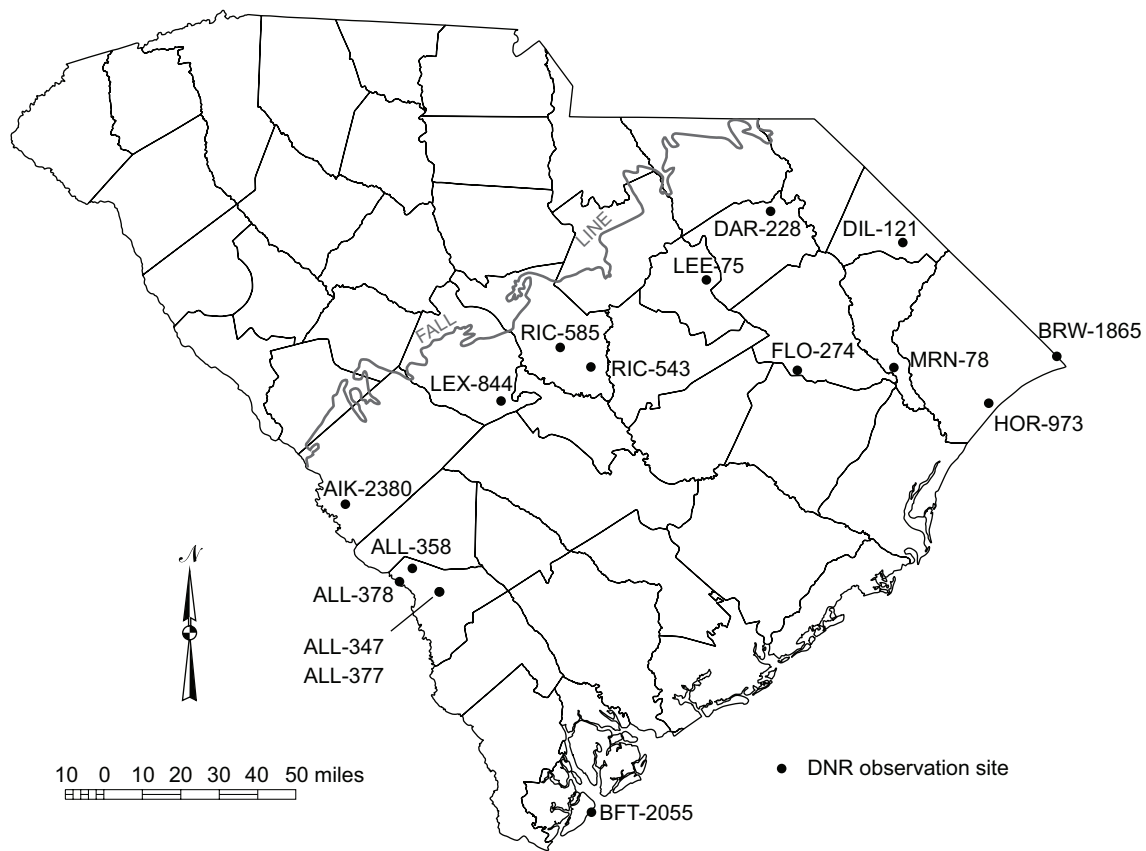


Figure 9. Locations of Middendorf aquifer observation wells.

AIKEN COUNTY

WELL NUMBER: AIK-2380

LATITUDE: 33° 21' 10"

GRID NUMBER: 40W-q4

LONGITUDE: 81° 48' 35"

LOCATION: 1.0 mile north of Jackson.

AQUIFER: Middendorf.

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

DATUM: Land surface is 228.25 ft above National Geodetic Vertical Datum of 1929.

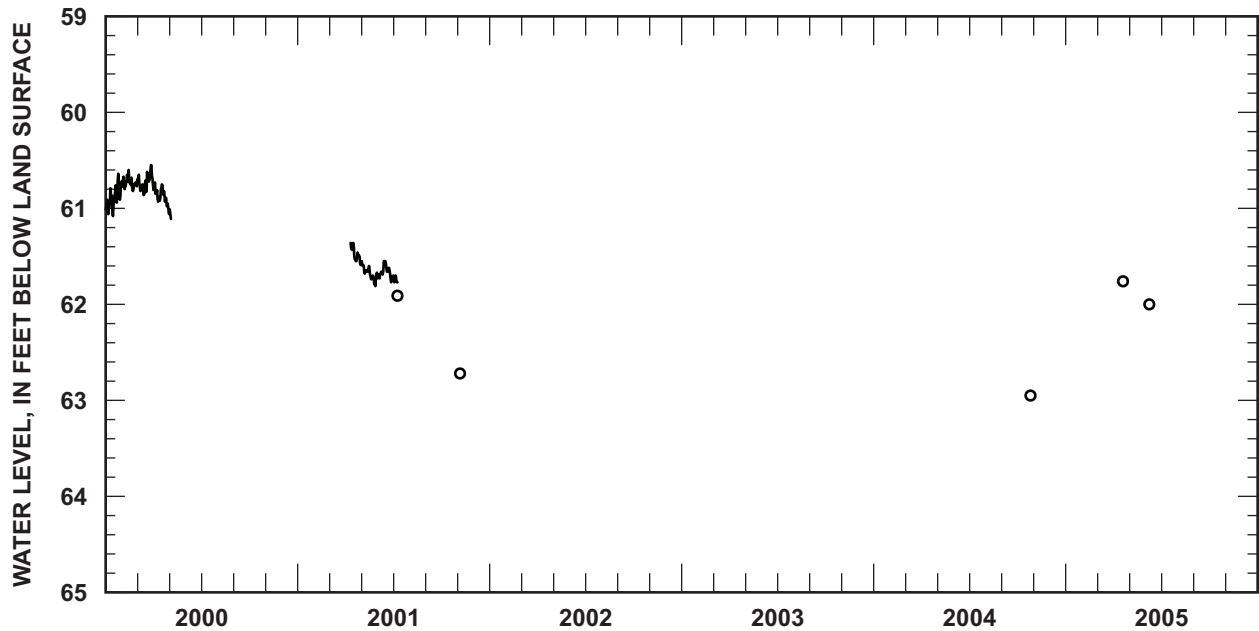
MEASURING POINT: Top of tee, 2.68 ft above land surface datum.

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: 62.95 ft below land surface datum, October 25, 2004.

REMARKS: One of four wells drilled on site for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	60.64	60.60	60.55	60.73	--	--	--	--	--	--	--	60.55 (Mar. 27)
	MEAN	60.89	60.74	60.73	60.87	--	--	--	--	--	--	--	--
	LOW	61.08	60.82	60.86	61.05	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	61.31	61.55	61.55	--	--	--	--	--	61.31 (Apr. 10)
	MEAN	--	--	--	--	61.67	61.66	--	--	--	--	--	--
	LOW	--	--	--	61.59	61.81	61.77	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-347

LATITUDE: 33° 01' 29"

GRID NUMBER: 35AA-q2

LONGITUDE: 81° 23' 03"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Middendorf.

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

DATUM: Land surface is 281.64 ft above National Geodetic Vertical Datum of 1929.

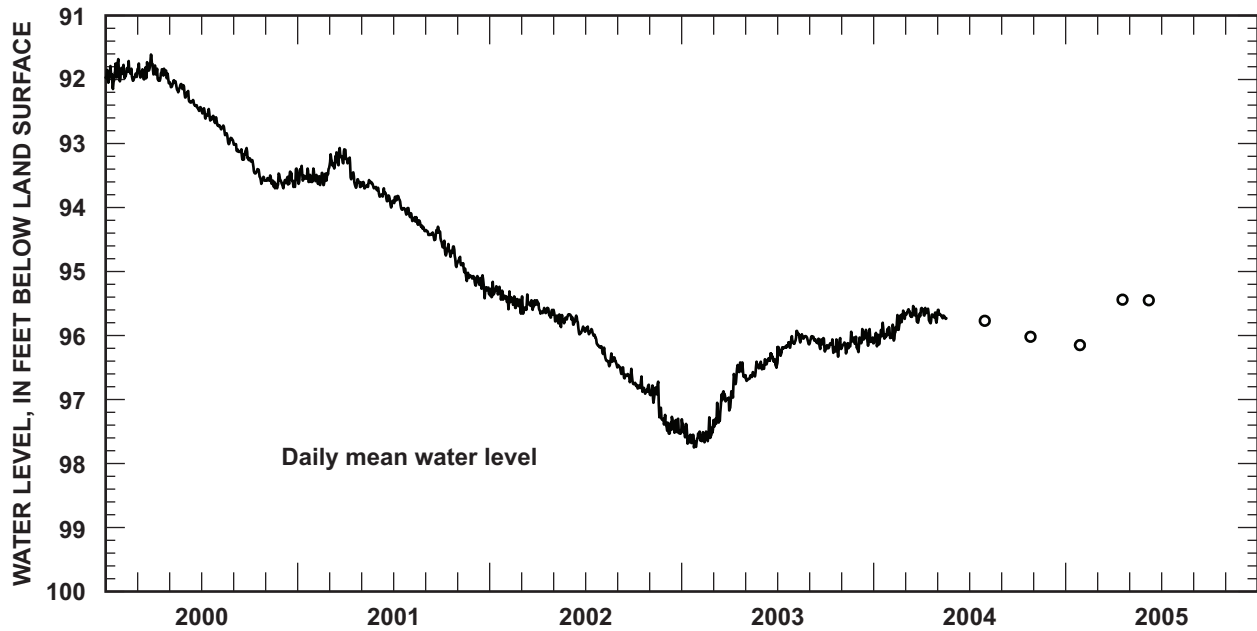
MEASURING POINT: Top of casing, 2.25 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

EXTREMES: Highest water level: 88.16 ft below land surface datum, March 14, 1997.

Lowest water level: 97.75 ft below land surface datum, January 24, 2003.

REMARKS: 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
2000	HIGH	91.68	91.71	91.61	91.78	92.01	92.18	92.45	92.71	93.01	93.23	93.47	93.39	91.61 (Mar. 27)
	MEAN	91.93	91.90	91.85	91.92	92.11	92.36	92.57	92.84	93.14	93.44	93.59	93.57	92.6
	LOW	92.15	92.02	92.00	92.06	92.28	92.49	92.70	93.01	93.26	93.63	93.70	93.70	93.70 (Nov. 22)
2001	HIGH	93.35	93.40	93.07	93.10	93.57	93.69	93.82	94.09	94.30	94.52	94.77	95.06	93.07 (Mar. 21)
	MEAN	93.51	93.54	93.24	93.47	93.65	93.83	93.96	94.23	94.41	94.69	94.98	95.20	94.06
	LOW	93.63	93.65	93.39	93.69	93.73	94.00	94.11	94.37	94.52	94.93	95.15	95.42	95.42 (Dec. 22)
2002	HIGH	95.16	95.31	95.36	95.47	95.60	95.67	95.86	96.17	96.46	96.64	96.72	97.27	95.16 (Jan. 6)
	MEAN	95.33	95.47	95.52	95.62	95.73	95.82	96.01	96.36	96.59	96.81	97.05	97.44	96.15
	LOW	95.44	95.61	95.66	95.72	95.87	95.98	96.19	96.50	96.75	96.91	97.39	97.53	97.53 (Dec. 7)
2003	HIGH	97.31	97.28	96.87	96.42	96.41	96.28	96.01	95.93	96.01	96.04	95.94	95.90	95.90 (Dec. 10)
	MEAN	97.57	97.56	97.14	96.69	96.58	96.41	96.19	96.04	96.09	96.17	96.13	96.06	96.55
	LOW	97.75	97.67	97.47	97.17	96.71	96.53	96.43	96.14	96.25	96.33	96.28	96.26	97.75 (Jan. 24)
2004	HIGH	95.80	95.61	95.54	95.57	--	--	--	--	--	--	--	--	95.54 (Mar. 16)
	MEAN	96.00	95.85	95.66	--	--	--	--	--	--	--	--	--	--
	LOW	96.17	96.08	95.80	95.57	--	--	--	--	--	--	--	--	96.17 (Jan. 17)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-358

LATITUDE: 33° 06' 48"

GRID NUMBER: 37Z-t3

LONGITUDE: 81° 30' 22"

LOCATION: Rolling Hills Road, Millet.

AQUIFER: Middendorf.

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

DATUM: Land surface is 243.12 ft above National Geodetic Vertical Datum of 1929.

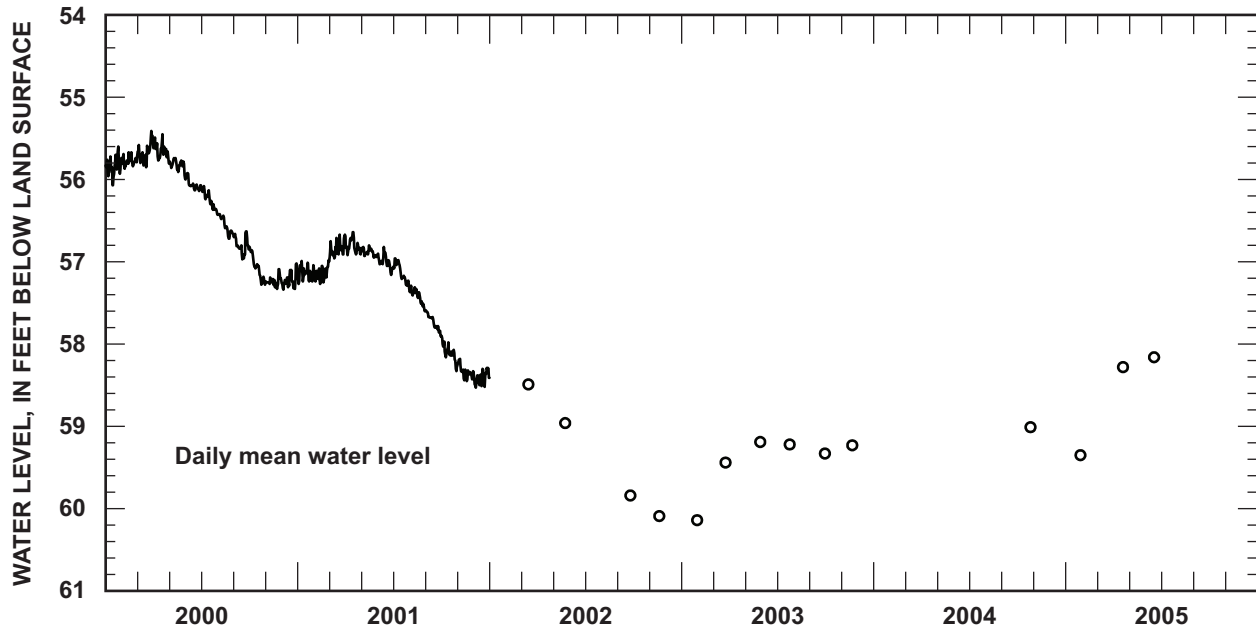
MEASURING POINT: Top of casing, 2.67 ft above concrete pad at surface datum.

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: 60.08 ft below land surface datum, November 18, 2002.

REMARKS: 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
2000	HIGH	55.59	55.66	55.40	55.44	55.73	55.91	56.07	56.41	56.62	56.81	57.08	57.01	55.40 (Mar. 28)
	MEAN	55.83	55.77	55.66	55.64	55.81	56.05	56.24	56.54	56.79	57.07	57.23	57.21	56.32
	LOW	56.06	55.86	55.84	55.79	55.98	56.13	56.41	56.71	56.96	57.27	57.32	57.33	57.33 (Dec. 4)
2001	HIGH	56.98	56.97	56.66	56.63	56.79	56.81	56.95	57.28	57.58	57.89	58.17	58.28	56.63 (Apr. 15)
	MEAN	57.13	57.14	56.83	56.80	56.87	56.99	57.12	57.42	57.73	58.10	58.33	58.40	57.40
	LOW	57.26	57.26	56.99	56.91	56.94	57.15	57.30	57.59	57.90	58.32	58.44	58.52	58.52 (Dec. 5)
2002	HIGH	58.19	58.22	58.29	58.40	58.52	58.57	--	--	--	--	--	--	58.19 (Jan. 6)
	MEAN	58.37	58.42	58.45	58.53	58.67	58.70	--	--	--	--	--	--	--
	LOW	58.49	58.52	58.55	58.64	58.79	58.83	--	--	--	--	--	--	58.83 (Jun. 20)
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-377

LATITUDE: 33° 01' 29"

GRID NUMBER: 35AA-q10

LONGITUDE: 81° 23' 04"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Middendorf.

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

DATUM: Land surface is 281.52 ft above National Geodetic Vertical Datum of 1929.

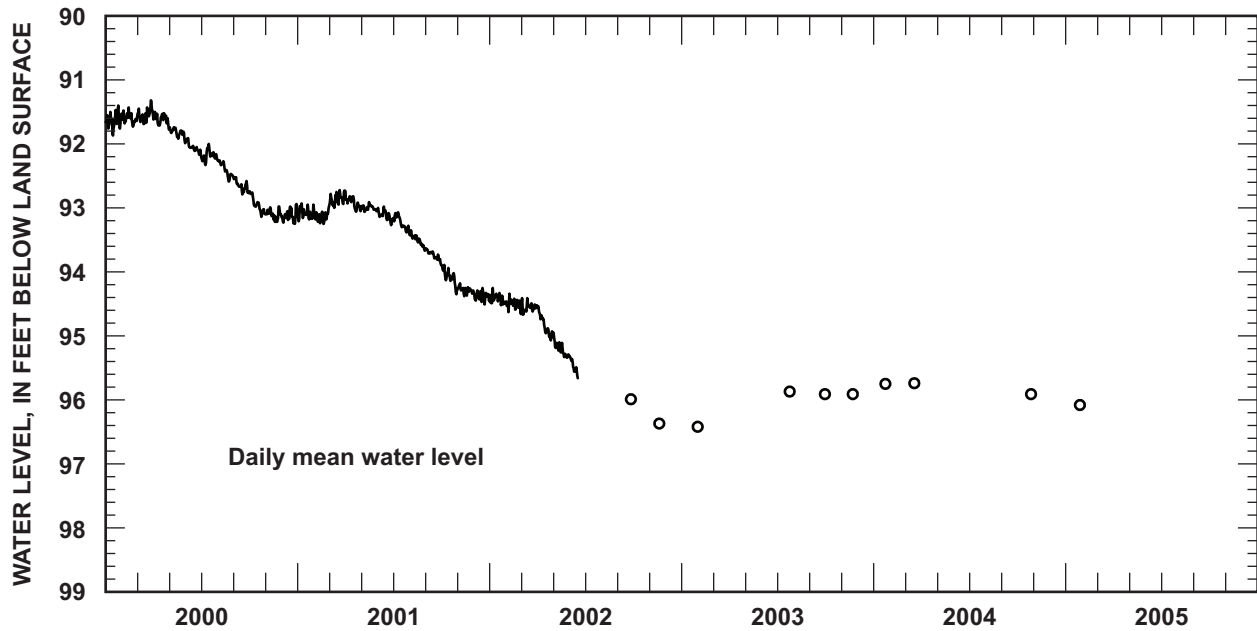
MEASURING POINT: Top of casing, 3.52 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

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

Lowest water level: 96.42 ft below land surface, January 30, 2003.

REMARKS: 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
2000	HIGH	91.40	91.43	91.32	91.50	91.74	91.91	92.00	92.26	92.52	92.74	92.98	92.94	91.32 (Mar. 27)
	MEAN	91.63	91.60	91.54	91.61	91.82	92.05	92.18	92.40	92.66	92.95	93.10	93.12	92.22
	LOW	91.87	91.73	91.69	91.77	91.99	92.17	92.33	92.59	92.79	93.14	93.22	93.25	93.25 (Dec. 26)
2001	HIGH	92.93	93.01	92.72	92.74	92.91	92.98	93.07	93.35	93.63	93.89	94.18	94.25	92.72 (Mar. 21)
	MEAN	93.08	93.14	92.86	92.92	93.00	93.12	93.23	93.51	93.74	94.08	94.28	94.38	93.44
	LOW	93.21	93.25	93.00	93.06	93.06	93.27	93.38	93.67	93.89	94.35	94.38	94.51	94.51 (Dec. 22)
2002	HIGH	94.25	94.34	94.41	94.53	94.95	95.32	--	--	--	--	--	--	94.25 (Jan. 6)
	MEAN	94.42	94.50	94.56	94.83	95.20	--	--	--	--	--	--	--	--
	LOW	94.52	94.63	94.67	95.07	95.34	95.66	--	--	--	--	--	--	95.66 (Jun. 17)
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-378

LATITUDE: 33° 03' 41"

GRID NUMBER: 37AA-g2

LONGITUDE: 81° 33' 50"

LOCATION: Little Hell Landing, Savannah River.

AQUIFER: Middendorf.

WELL CHARACTERISTICS: 10-inch diameter observation well. Depth: 1,060 ft. Screened from 845 to 1,055 ft.

DATUM: Land surface is 86 ft (map estimate) above National Geodetic Vertical Datum of 1929.

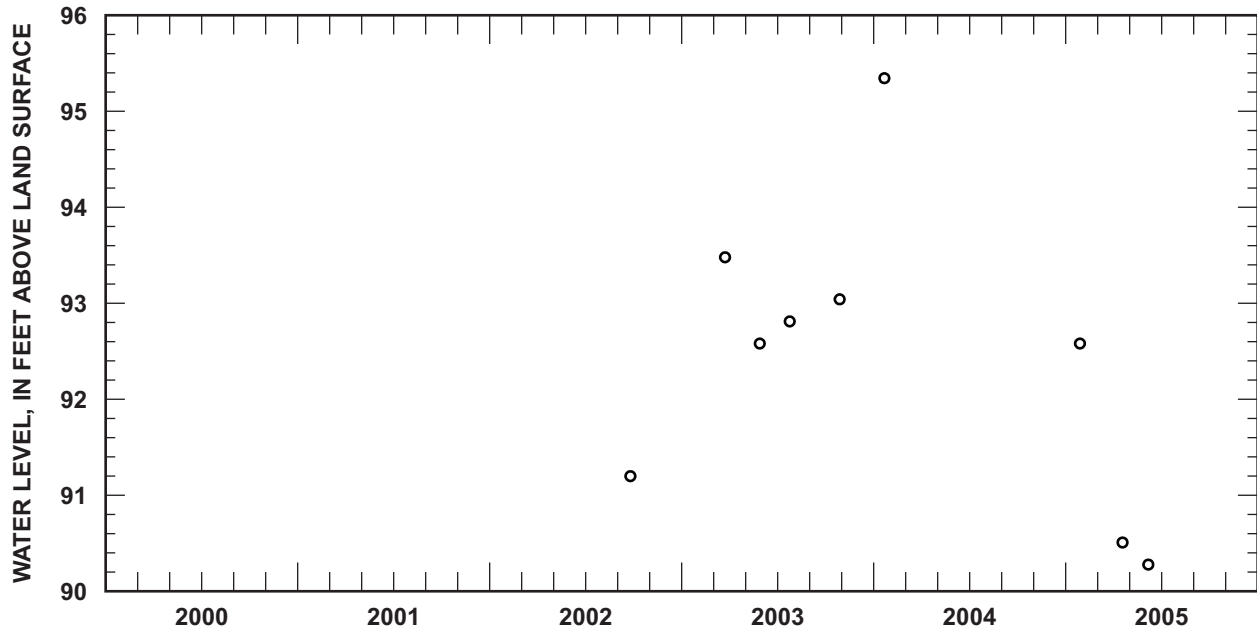
MEASURING POINT: Top of cement pad, 2.80 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

EXTREMES: Highest water level: 95.34 ft above land surface, January 21, 2004.

Lowest water level: 90.20 ft above land surface, June 6, 2005.

REMARKS: Drilled for Department of Energy and DNR project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

BEAUFORT COUNTY

WELL NUMBER: BFT-2055

LATITUDE: 32° 11' 28"

GRID NUMBER: 27KK-r14

LONGITUDE: 80° 42' 15"

LOCATION: Near Singleton Beach, Hilton Head Island.

AQUIFER: Middendorf and Cape Fear.

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

DATUM: Land surface is 12 ft (map estimate) above National Geodetic Vertical Datum of 1929.

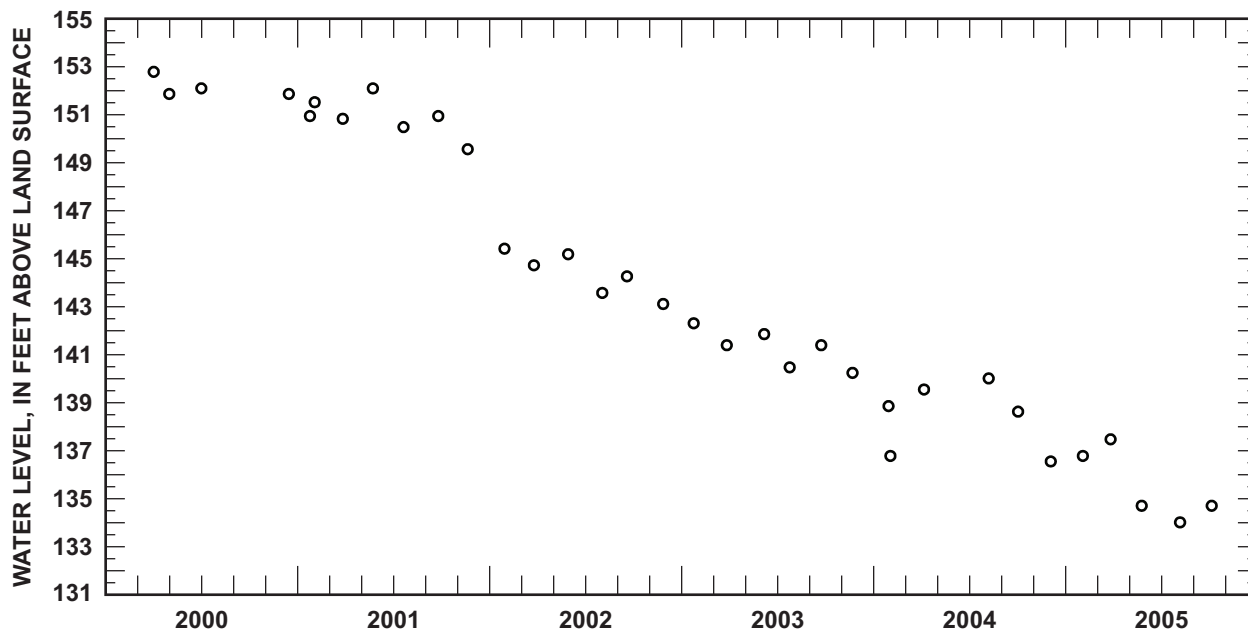
MEASURING POINT: Top of 8-inch blind flange, 3.90 ft above concrete pad at surface datum.

PERIOD OF RECORD: April 2000 to current year.

EXTREMES: Highest water level: 152.60 ft above land surface datum, April 1, 2000.

Lowest water level: 134.01 ft above land surface datum, August 5, 2005.

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



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

BRUNSWICK COUNTY, N.C.

WELL NUMBER: BRW-1865

LATITUDE: 33° 53' 35"

GRID NUMBER: 2Q-j2

LONGITUDE: 78° 35' 20"

LOCATION: N.C. Department of Environment and Natural Resources well cluster, Calabash.

AQUIFER: Middendorf.

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 904 ft. Screened from 810 to 820 ft.

DATUM: Land surface is 47.56 ft above National Geodetic Vertical Datum of 1929.

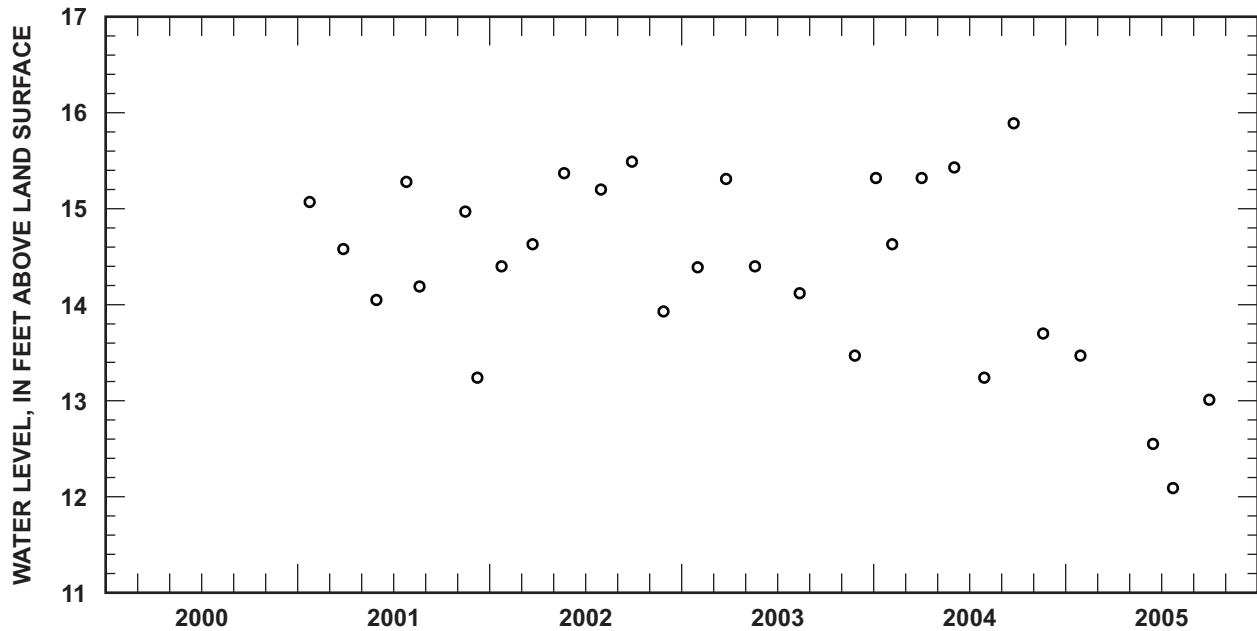
MEASURING POINT: Top of casing, 2.88 ft above land surface datum.

PERIOD OF RECORD: January 2001 to current year.

EXTREMES: Highest water level: 15.89 ft below land surface, August 22, 2004.

Lowest water level: 12.09 ft below land surface, July 22, 2005.

REMARKS: Flowing well. Measured with 0-30 psi gage.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

DARLINGTON COUNTY

WELL NUMBER: DAR-228

LATITUDE: 34° 27' 31"

GRID NUMBER: 17J-m1

LONGITUDE: 79° 52' 48"

LOCATION: Lake Darpo, near Society Hill.

AQUIFER: Middendorf.

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

DATUM: Land surface is 170 ft (estimate) above National Geodetic Vertical Datum of 1929.

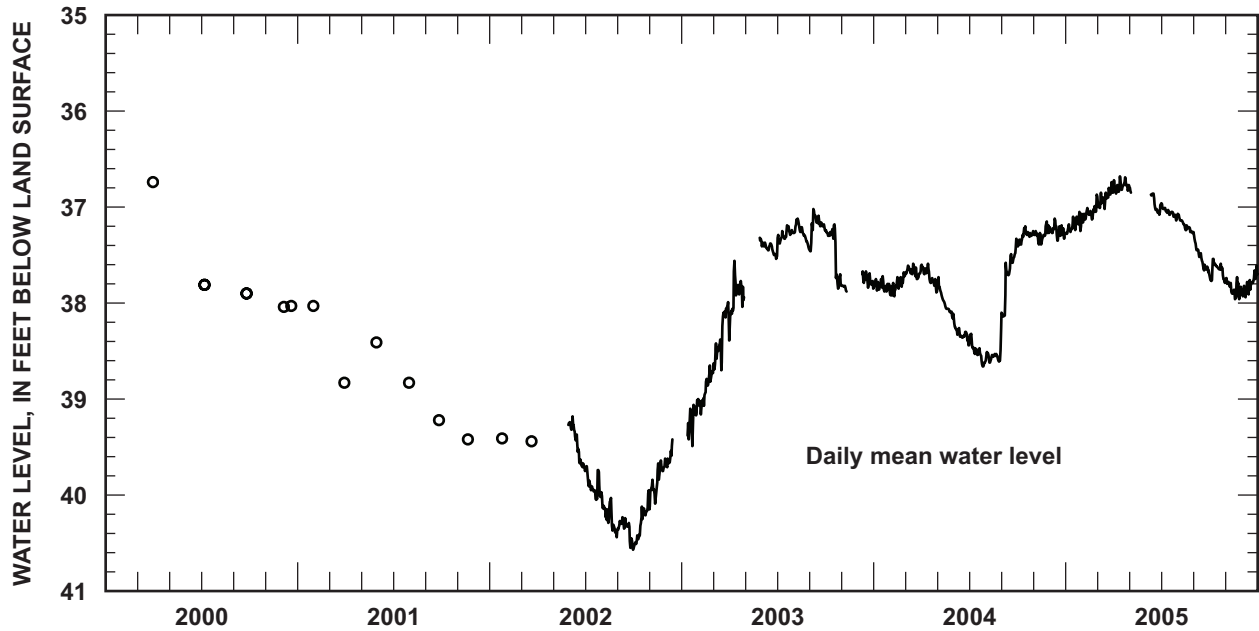
MEASURING POINT: Top of casing, 1.64 ft above land surface datum.

PERIOD OF RECORD: October 1999 to current year.

EXTREMES: Highest water level: 36.3 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 aquifer delineation project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	39.25	39.18	39.70	39.97	40.23	39.95	39.62	39.42	39.18 (Jun. 7)
	MEAN	--	--	--	--	39.48	39.89	40.22	40.35	40.30	39.87	39.61	--
	LOW	--	--	--	39.64	39.72	40.05	40.44	40.57	40.55	40.56	39.71	40.57 (Sep. 30)
2003	HIGH	39.01	38.65	37.99	37.56	37.32	37.19	37.12	37.02	37.18	37.82	37.67	37.02 (Sep. 8)
	MEAN	--	38.91	38.36	37.93	--	37.43	37.29	37.26	37.19	37.45	--	--
	LOW	39.49	39.16	38.73	38.39	37.35	37.54	37.51	37.44	37.46	37.85	37.85	39.49 (Jan. 21)
2004	HIGH	37.72	37.68	37.59	37.59	37.73	38.15	38.32	38.10	37.33	37.20	37.15	37.12 (Dec. 10)
	MEAN	37.82	37.81	37.67	37.72	37.99	38.32	38.51	38.54	37.69	37.30	37.29	37.83
	LOW	37.88	37.93	37.75	37.89	38.16	38.44	38.66	38.62	38.14	37.41	37.39	38.66 (Jul. 27)
2005	HIGH	37.05	36.87	36.74	36.68	36.79	36.86	36.96	37.07	37.30	37.54	37.73	36.68 (Apr. 13)
	MEAN	37.18	37.07	36.90	36.78	--	--	37.05	37.19	37.53	37.67	37.85	37.3
	LOW	37.28	37.16	37.02	36.86	36.86	37.08	37.14	37.27	37.70	37.79	37.96	37.96 (Nov. 26)

DILLON COUNTY

WELL NUMBER: DIL-121

LATITUDE: 34° 19' 43"

GRID NUMBER: 10L-c2

LONGITUDE: 79° 17' 02"

LOCATION: Little Pee Dee State Park, near Dillon.

AQUIFER: Middendorf.

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

DATUM: Land surface is 95 ft (map estimate) above National Geodetic Vertical Datum of 1929.

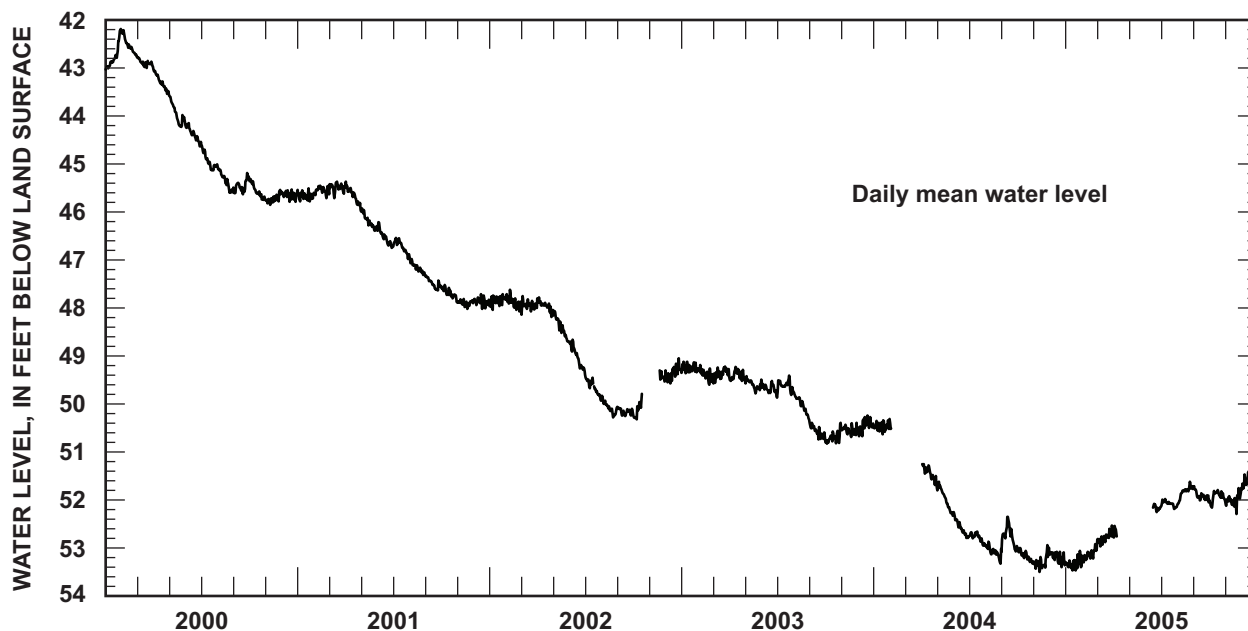
MEASURING POINT: Top of casing, 2.98 ft above land surface datum.

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
2000	HIGH	42.19	42.21	42.77	43.03	43.58	44.15	44.59	45.05	45.19	45.31	45.54	45.53	42.19 (Jan. 30)
	MEAN	42.75	42.53	42.90	43.29	43.96	44.38	44.93	45.35	45.45	45.57	45.72	45.64	44.37
	LOW	43.03	42.76	43.00	43.54	44.23	44.63	45.13	45.60	45.63	45.75	45.85	45.79	45.85 (Nov. 9)
2001	HIGH	45.51	45.45	45.37	45.37	45.93	46.21	46.54	46.94	47.33	47.52	47.81	47.71	45.37 (Mar. 16)
	MEAN	45.67	45.55	45.49	45.65	46.19	46.53	46.72	47.16	47.49	47.70	47.90	47.86	46.66
	LOW	45.78	45.71	45.71	45.96	46.39	46.75	46.98	47.34	47.63	47.88	48.02	48.02	48.02 (Nov. 19)
2002	HIGH	47.71	47.62	47.75	47.78	48.06	48.66	49.08	49.83	50.08	49.79	49.30	49.05	47.62 (Feb. 8)
	MEAN	47.84	47.87	47.95	47.95	48.39	49.01	49.61	50.07	50.16	--	--	49.34	48.98
	LOW	48.04	48.07	48.14	48.19	48.70	49.32	49.93	50.28	50.25	50.32	49.54	49.57	50.32 (Oct. 7)
2003	HIGH	49.12	49.19	49.22	49.23	49.42	49.49	49.41	49.75	50.39	50.39	50.39	50.24	49.12 (Jan. 4)
	MEAN	49.24	49.39	49.37	49.40	49.60	49.67	49.62	50.01	50.57	50.69	50.54	50.44	49.88
	LOW	49.36	49.60	49.57	49.52	49.78	49.83	49.87	50.33	50.74	50.83	50.69	50.67	50.83 (Oct. 4)
2004	HIGH	50.31	50.40	--	51.25	51.62	52.25	52.66	52.87	52.35	53.00	52.94	53.08	50.31 (Jan. 31)
	MEAN	50.47	--	--	51.45	51.99	52.58	52.78	53.07	52.74	53.17	53.28	53.20	52.47
	LOW	50.63	50.52	--	51.76	52.33	52.79	52.95	53.33	53.07	53.33	53.50	53.40	53.50 (Nov. 11)
2005	HIGH	53.06	52.92	52.53	52.54	--	52.08	51.98	51.62	51.71	51.79	51.75	51.28	51.28 (Dec. 30)
	MEAN	53.32	53.13	52.78	--	--	--	52.08	51.83	51.92	51.94	52.00	51.54	--
	LOW	53.47	53.30	52.97	52.78	--	52.25	52.19	52.08	52.05	52.16	52.29	51.78	53.47 (Jan. 19)

FLORENCE COUNTY

WELL NUMBER: FLO-274

LATITUDE: 33° 51' 20"

GRID NUMBER: 16Q-s1

LONGITUDE: 79° 46' 02"

LOCATION: Lake City Airport.

AQUIFER: Middendorf.

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

DATUM: Land surface is 78.53 ft above National Geodetic Vertical Datum of 1929.

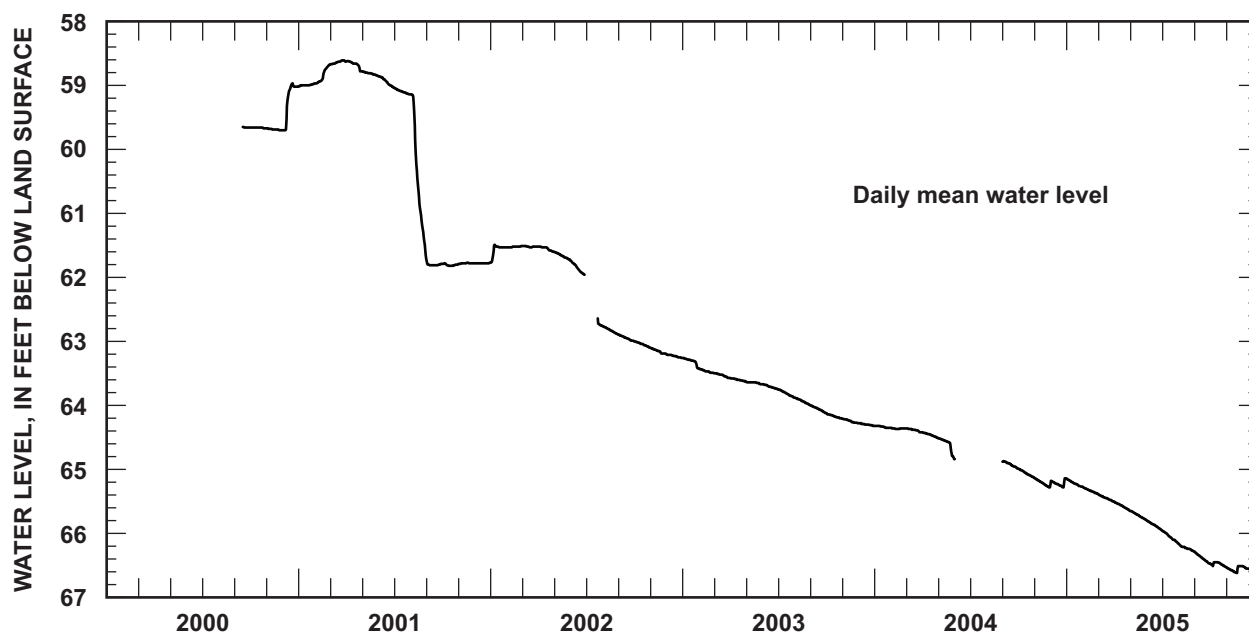
MEASURING POINT: Top of casing, 1.34 ft above land surface datum.

PERIOD OF RECORD: September 2000 to current year.

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

Lowest water level: 66.62 ft below land surface, November 20, 2005.

REMARKS: Drilled and cored for USGS Regional Aquifer System Analysis project. Possible collapsed well screen.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	59.65	59.66	59.67	58.97	58.97 (Dec. 19)	
	MEAN	--	--	--	--	--	--	--	59.66	59.66	59.69	59.21	--	
	LOW	--	--	--	--	--	--	--	59.66	59.67	59.70	59.70	59.70 (Nov. 24)	
2001	HIGH	58.97	58.68	58.61	58.62	58.78	58.86	59.04	59.14	61.76	61.78	61.77	58.61 (Mar. 23)	
	MEAN	59.00	58.85	58.64	58.67	58.81	58.94	59.09	60.45	61.80	61.80	61.78	59.97	
	LOW	59.01	58.97	58.67	58.78	58.85	59.03	59.14	61.72	61.81	61.82	61.79	61.78	61.82 (Oct. 12)
2002	HIGH	61.49	61.51	61.51	61.52	61.60	61.74	62.52	62.76	62.90	63.00	63.10	63.20	61.49 (Jan. 8)
	MEAN	61.56	61.52	61.52	61.55	61.66	61.86	--	62.82	62.95	63.05	63.15	63.23	62.30
	LOW	61.77	61.53	61.53	61.60	61.72	61.97	62.76	62.89	63.00	63.10	63.20	63.26	63.26 (Dec. 29)
2003	HIGH	63.26	63.43	63.50	63.57	63.63	63.67	63.75	63.88	64.00	64.12	64.21	64.28	63.26 (Jan. 1)
	MEAN	63.31	63.46	63.53	63.60	63.65	63.71	63.81	63.93	64.06	64.17	64.24	64.30	63.81
	LOW	63.42	63.49	63.57	63.63	63.67	63.75	63.88	64.00	64.12	64.21	64.28	64.32	64.32 (Dec. 31)
2004	HIGH	64.32	64.35	64.36	64.42	64.51	64.84	--	64.88	64.87	64.99	65.14	65.14	64.32 (Jan. 1)
	MEAN	64.33	64.36	64.39	64.46	64.60	--	--	64.93	65.06	65.21	65.21	--	
	LOW	64.35	64.37	64.42	64.51	64.84	66.48	--	66.09	64.99	65.14	65.28	65.28	65.28 (Dec. 25)
2005	HIGH	65.15	65.28	65.39	65.51	65.65	65.80	65.96	66.16	66.29	66.45	66.51	66.51	65.15 (Jan. 1)
	MEAN	65.22	65.33	65.45	65.57	65.72	65.87	66.06	66.23	66.39	66.48	66.56	66.55	65.95
	LOW	65.28	65.38	65.50	65.65	65.79	65.95	66.16	66.29	66.47	66.53	66.62	66.58	66.62 (Nov. 20)

HORRY COUNTY

WELL NUMBER: HOR-973

LATITUDE: 33° 43' 17"

GRID NUMBER: 5S-f1

LONGITUDE: 78° 54' 10"

LOCATION: Surface water treatment plant, Myrtle Beach.

AQUIFER: Middendorf and Cape Fear.

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

DATUM: Land surface is 20 ft (map estimate) above National Geodetic Vertical Datum of 1929.

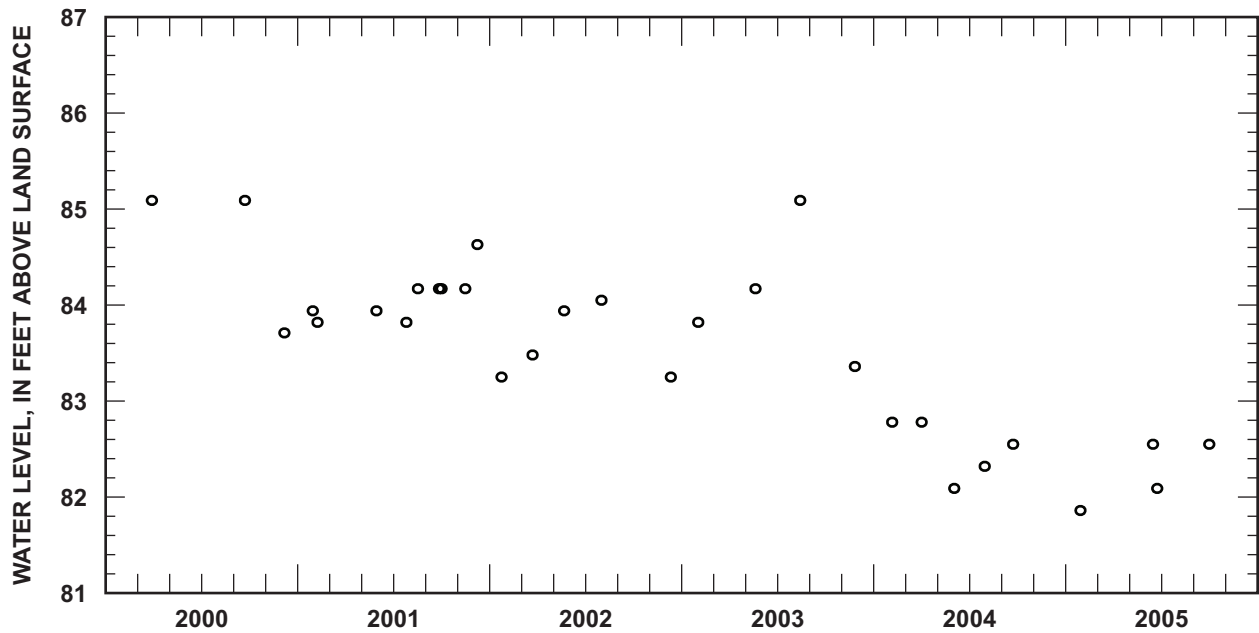
MEASURING POINT: At stainless steel tee, 2.64 ft above land surface datum.

PERIOD OF RECORD: August 1999 to current year.

EXTREMES: Highest water level: 85.09 ft above land surface, August 14, 2003.

Lowest water level: 81.86 ft above land surface, January 27, 2005.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

LEE COUNTY

WELL NUMBER: LEE-75

LATITUDE: 34° 12' 09"

GRID NUMBER: 21M-k1

LONGITUDE: 80° 10' 28"

LOCATION: Lee State Natural Area, near Bishopville.

AQUIFER: Middendorf.

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

DATUM: Land surface is 195 ft (map estimate) above National Geodetic Vertical Datum of 1929.

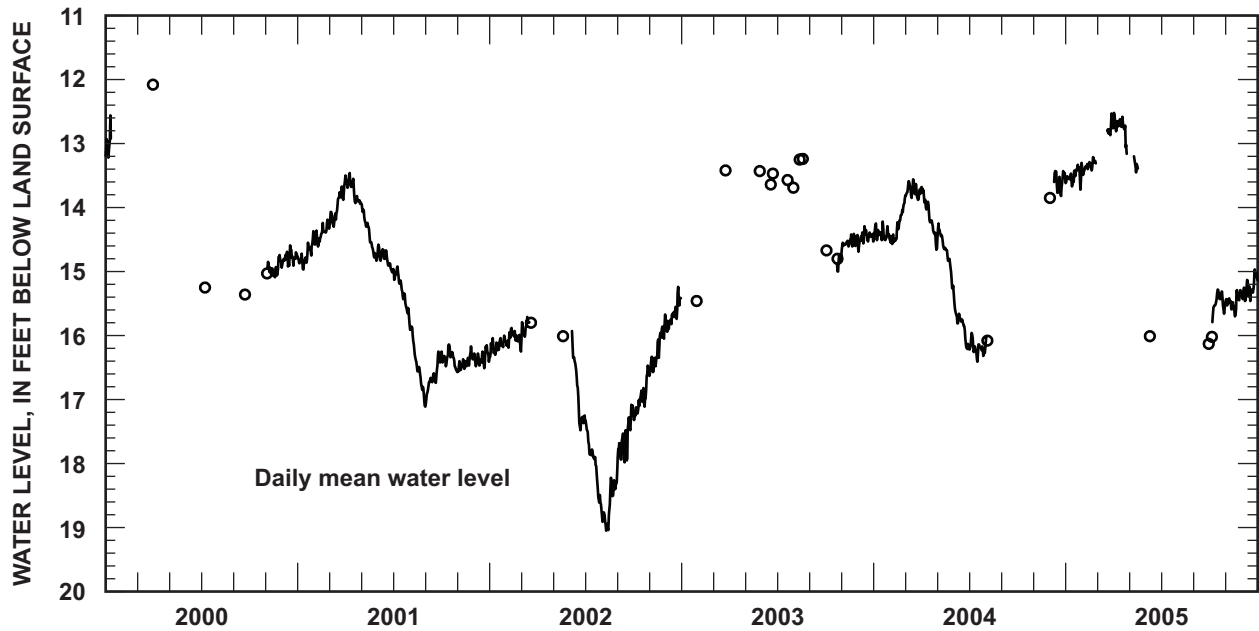
MEASURING POINT: Top of 2-inch casing, 3.55 ft above land surface datum.

PERIOD OF RECORD: December 1999 to current year.

EXTREMES: Highest water level: 12.08 ft below land surface, March 30, 2000.

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
2000	HIGH	12.56	--	--	--	--	--	--	--	--	--	14.74	14.59	12.56 (Jan. 10)
	MEAN	--	--	--	--	--	--	--	--	--	--	14.95	14.79	--
	LOW	13.22	--	--	--	--	--	--	--	--	--	15.09	14.94	15.09 (Nov. 18)
2001	HIGH	14.37	14.19	13.59	13.46	13.94	14.58	14.92	15.83	16.25	16.14	16.17	16.15	13.46 (Apr. 9)
	MEAN	14.74	14.42	13.99	13.73	14.41	14.79	15.27	16.44	16.64	16.36	16.42	16.35	15.30
	LOW	14.97	14.61	14.33	13.94	14.83	15.01	15.71	17.11	17.06	16.57	16.56	16.51	17.11 (Aug. 31)
2002	HIGH	16.00	15.88	15.71	--	--	15.89	17.33	18.09	17.08	16.47	15.67	15.24	15.24 (Dec. 25)
	MEAN	16.16	16.03	--	--	--	16.84	17.95	18.63	17.58	16.97	16.21	15.66	--
	LOW	16.34	16.19	16.25	--	--	17.48	18.64	19.05	17.98	17.32	16.60	15.94	19.05 (Aug. 10)
2003	HIGH	--	--	--	--	--	--	--	--	--	14.74	14.41	14.29	14.29 (Dec. 14)
	MEAN	--	--	--	--	--	--	--	--	--	--	14.54	14.46	--
	LOW	--	--	--	--	--	--	--	--	--	15.00	14.66	14.69	15.00 (Oct. 25)
2004	HIGH	14.22	13.87	13.56	13.68	14.25	15.34	15.96	15.99	--	--	--	13.43	13.43 (Dec. 11)
	MEAN	14.41	14.30	13.74	14.12	14.69	15.83	16.20	--	--	--	--	--	--
	LOW	14.51	14.57	13.88	14.66	15.27	16.21	16.41	16.11	--	--	--	13.82	16.41 (Jul. 16)
2005	HIGH	13.30	13.21	12.53	12.52	13.20	--	--	--	--	15.28	15.29	14.97	12.52 (Apr. 2)
	MEAN	13.49	13.35	--	12.76	--	--	--	--	--	15.48	15.47	15.26	--
	LOW	13.72	13.49	12.87	13.25	13.55	--	--	--	--	15.79	15.70	15.46	15.79 (Oct. 6)

LEXINGTON COUNTY

WELL NUMBER: LEX-844

LATITUDE: 33° 44' 46"

GRID NUMBER: 32S-b4

LONGITUDE: 81° 06' 27"

LOCATION: Swansea Primary School, Swansea.

AQUIFER: Middendorf.

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

DATUM: Land surface is 360 ft (map estimate) above National Geodetic Vertical Datum of 1929.

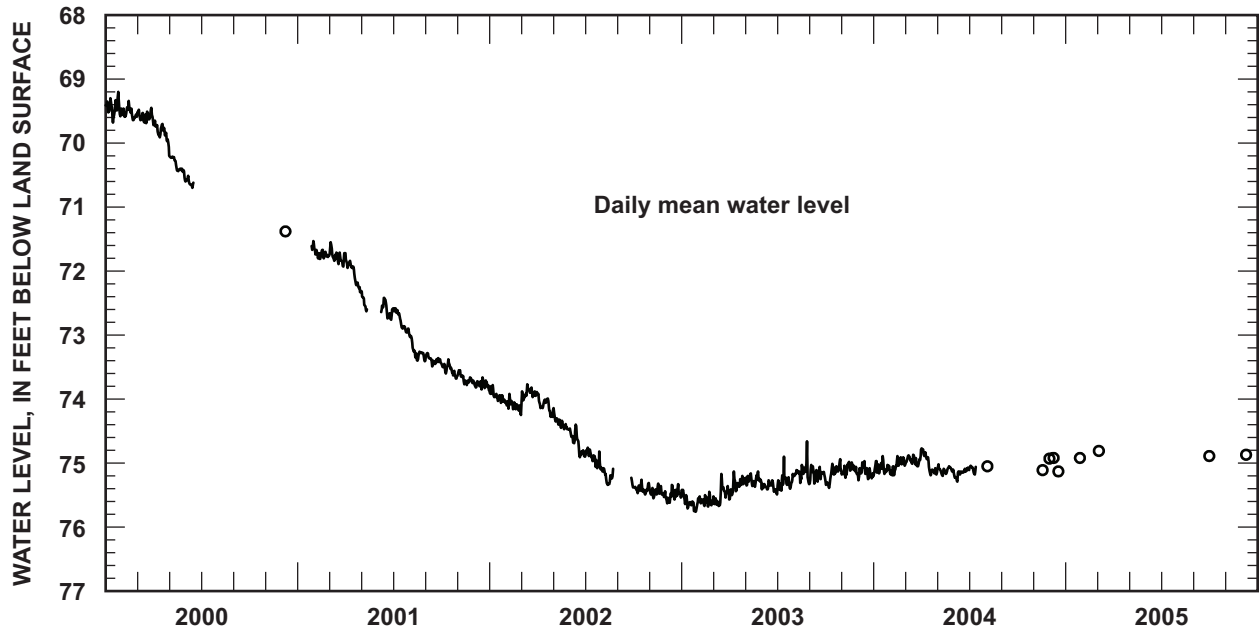
MEASURING POINT: Top of 2-inch casing, 3.35 ft above land surface datum.

PERIOD OF RECORD: October 1999 to current year.

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

Lowest water level: 75.76 ft below land surface, January 27, 2003.

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



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	69.20	69.34	69.45	69.65	70.20	70.51	--	--	--	--	--	--	69.20 (Jan. 25)
	MEAN	69.45	69.53	69.58	69.82	70.35	70.62	--	--	--	--	--	--	--
	LOW	69.68	69.64	69.69	70.06	70.59	70.70	--	--	--	--	--	--	70.70 (Jun. 14)
2001	HIGH	71.53	71.65	71.55	71.72	72.31	72.42	72.58	73.01	73.28	73.38	73.55	73.66	71.53 (Jan. 30)
	MEAN	71.62	71.74	71.77	72.03	72.48	72.61	72.78	73.26	73.38	73.54	73.68	73.77	72.72
	LOW	71.68	71.81	71.93	72.33	72.63	72.76	72.97	73.41	73.49	73.68	73.78	73.87	73.87 (Dec. 31)
2002	HIGH	73.78	73.92	73.77	73.92	74.14	74.36	74.76	74.79	75.23	75.26	75.32	75.33	73.77 (Mar. 13)
	MEAN	73.96	74.10	73.92	74.09	74.37	74.68	74.92	--	--	75.40	75.46	75.50	74.74
	LOW	74.06	74.22	74.25	74.28	74.47	74.91	75.10	75.34	75.38	75.49	75.55	75.63	75.63 (Dec. 4)
2003	HIGH	75.42	75.45	75.17	75.13	75.13	75.27	74.90	74.66	75.03	74.94	74.98	74.97	74.66 (Aug. 27)
	MEAN	75.61	75.59	75.51	75.35	75.27	75.36	75.30	75.15	75.17	75.17	75.10	75.14	75.31
	LOW	75.76	75.68	75.67	75.57	75.37	75.47	75.49	75.33	75.32	75.39	75.23	75.27	75.76 (Jan. 27)
2004	HIGH	74.89	74.89	74.79	74.77	75.02	75.07	75.04	--	--	--	--	--	74.77 (Apr. 1)
	MEAN	75.08	75.04	74.95	75.01	75.11	75.15	--	--	--	--	--	--	--
	LOW	75.18	75.19	75.05	75.19	75.20	75.29	75.18	--	--	--	--	--	75.29 (Jun. 8)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

MARION COUNTY

WELL NUMBER: MRN-78

LATITUDE: 33° 51' 43"

GRID NUMBER: 10Q-p2

LONGITUDE: 79° 19' 50"

LOCATION: Brittons Neck fire tower, U.S. Hwy. 378.

AQUIFER: Middendorf.

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

DATUM: Land surface is 34.63 ft above National Geodetic Vertical Datum of 1929.

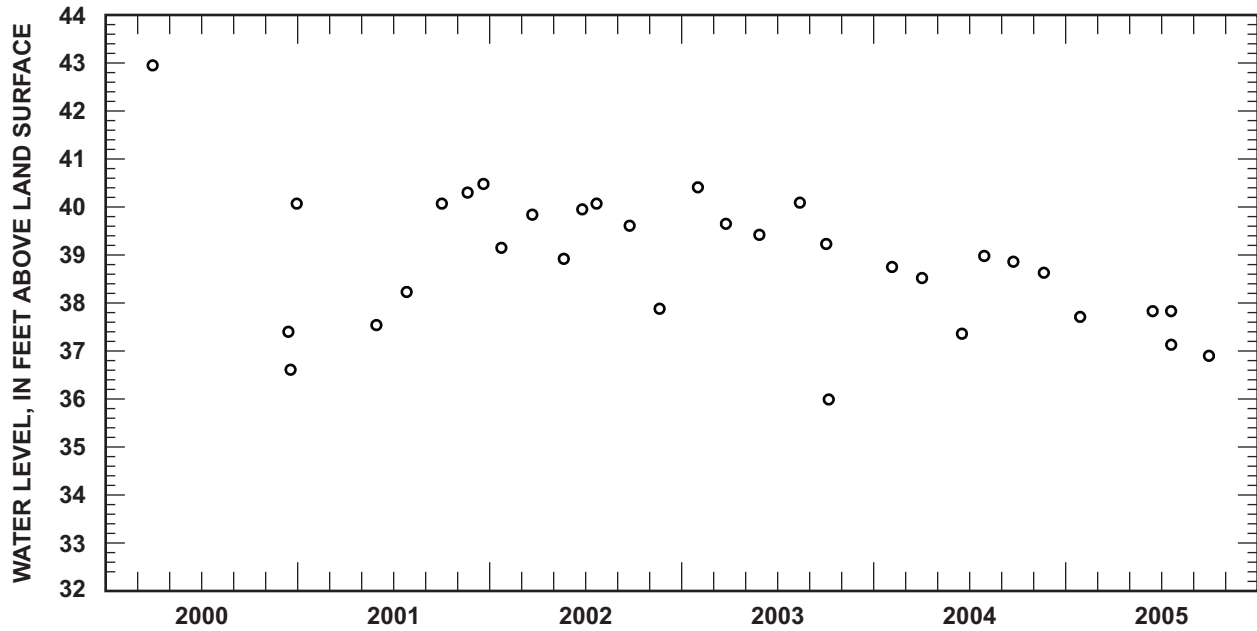
MEASURING POINT: Top of blind flange, 2.99 ft above land surface datum.

PERIOD OF RECORD: August 1999 to current year.

EXTREMES: Highest water level: 42.95 ft above land surface, March 30, 2001.

Lowest water level: 35.69 ft above land surface, August 29, 1999.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2000	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2000	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2001	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2001	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2002	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2002	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2003	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2003	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2004	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2004	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
2005	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
2005	LOW	--	--	--	--	--	--	--	--	--	--	--	--

RICHLAND COUNTY

WELL NUMBER: RIC-543

LATITUDE: 33° 52' 30"

GRID NUMBER: 27Q-m1

LONGITUDE: 80° 42' 08"

LOCATION: Webber School, Eastover.

AQUIFER: Middendorf.

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

DATUM: Land surface is 183.82 ft above National Geodetic Vertical Datum of 1929.

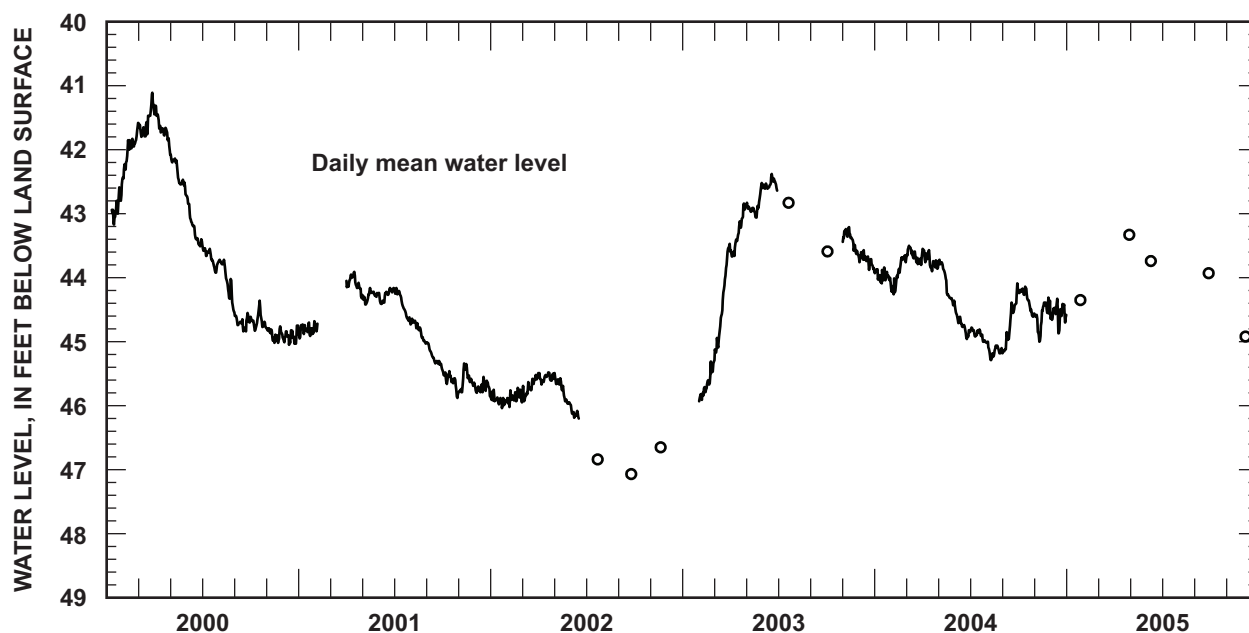
MEASURING POINT: Top of 2-inch casing, 3.44 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

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

Lowest water level: 47.07 ft below land surface, September 24, 2002.

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



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	42.46	41.63	41.11	41.31	42.08	42.72	43.48	43.72	44.55	44.36	44.76	44.75	41.11 (Mar. 28)
	MEAN	42.92	42.01	41.56	41.65	42.36	43.20	43.68	44.03	44.70	44.68	44.89	44.92	43.38
	LOW	43.17	42.45	41.80	42.02	42.71	43.51	43.92	44.54	44.84	44.83	45.02	45.05	45.05 (Dec. 13)
2001	HIGH	44.68	44.72	44.06	43.91	44.16	44.16	44.64	45.01	45.45	45.34	45.55	43.91	43.91 (Apr. 16)
	MEAN	44.81	44.78	44.07	44.08	44.28	44.40	44.40	44.82	45.24	45.60	45.60	45.72	44.88
	LOW	44.95	44.84	44.08	44.32	44.42	44.69	44.69	45.03	45.43	45.88	45.79	45.86	45.88 (Oct. 29)
2002	HIGH	45.75	45.72	45.52	45.48	45.49	--	--	--	--	--	--	--	45.48 (Apr. 20)
	MEAN	45.91	45.86	45.71	45.56	45.75	--	--	--	--	--	--	--	--
	LOW	46.04	46.02	45.95	45.67	45.97	--	--	--	--	--	--	--	46.04 (Jan. 22)
2003	HIGH	--	45.31	43.47	42.84	42.52	42.38	--	--	--	43.21	43.57	42.38	42.38 (Jun. 19)
	MEAN	--	45.68	44.45	43.31	42.88	42.54	--	--	--	43.41	43.73	--	--
	LOW	--	45.93	45.31	43.67	43.06	42.68	--	--	--	43.64	43.90	45.97	45.97 (Jan. 31)
2004	HIGH	43.84	43.65	43.50	43.55	43.72	44.42	44.78	45.00	44.09	44.14	44.31	44.33	43.50 (Mar. 6)
	MEAN	43.97	43.94	43.66	43.73	44.07	44.73	44.89	45.14	44.68	44.35	44.60	44.57	44.36
	LOW	44.09	44.26	43.80	43.90	44.43	44.96	45.01	45.29	45.15	44.61	45.00	44.87	45.29 (Aug. 9)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

RICHLAND COUNTY

WELL NUMBER: RIC-585

LATITUDE: 33° 56' 56"

GRID NUMBER: 29P-t4

LONGITUDE: 80° 50' 27"

LOCATION: Horrel Hill Elementary School, Horrel Hill.

AQUIFER: Middendorf.

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

DATUM: Land surface is 328.04 ft above National Geodetic Vertical Datum of 1929.

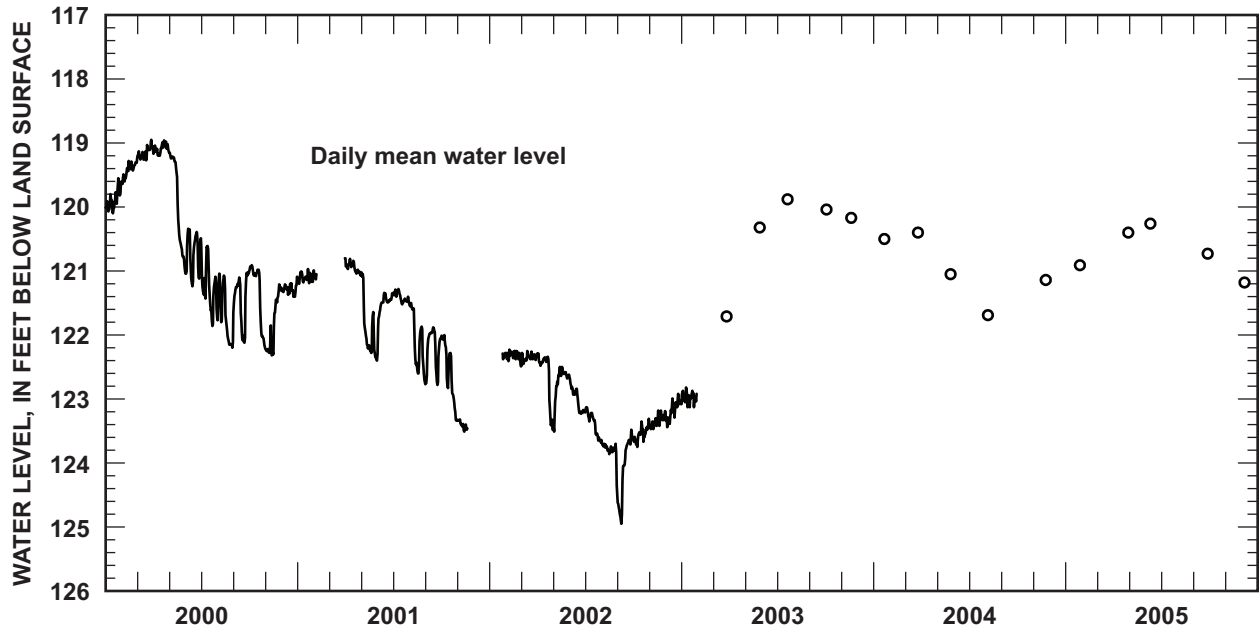
MEASURING POINT: Top of 2-inch casing, 4.50 ft above land surface datum.

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.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	119.55	119.28	118.95	118.96	119.15	120.34	120.60	121.04	121.00	120.91	121.21	121.09	118.95 (Mar. 28)
	MEAN	119.89	119.43	119.15	119.09	119.91	120.72	121.25	121.69	121.43	121.36	121.83	121.28	120.59
	LOW	120.10	119.64	119.27	119.20	121.01	121.24	121.86	122.20	122.12	122.22	122.32	121.40	122.32 (Nov. 12)
2001	HIGH	120.97	121.05	--	120.80	121.02	121.34	121.28	121.50	121.88	122.00	123.32	--	120.80 (Apr. 1)
	MEAN	121.10	--	--	120.94	121.93	121.52	121.41	122.10	122.21	122.60	--	--	--
	LOW	121.20	121.13	--	121.07	122.40	122.30	121.52	122.77	122.78	123.34	123.51	--	123.51 (Nov. 13)
2002	HIGH	122.26	122.23	122.25	122.29	122.50	122.65	123.13	123.64	123.48	123.31	123.18	122.92	122.23 (Feb. 7)
	MEAN	--	122.32	122.36	122.60	122.75	123.00	123.38	123.81	124.08	123.54	123.35	123.17	123.06
	LOW	122.38	122.46	122.49	123.48	123.51	123.23	123.68	124.51	124.95	123.75	123.47	123.44	124.95 (Sep. 8)
2003	HIGH	122.82	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	122.97	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	123.13	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

Black Creek Aquifer

Aucott, Davis, and Speiran (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 underlying 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 subcrop area and its structure, contoured in feet above msl, are delineated in Figure 10.

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. The locations of Black Creek aquifer system wells are shown in Figure 11.

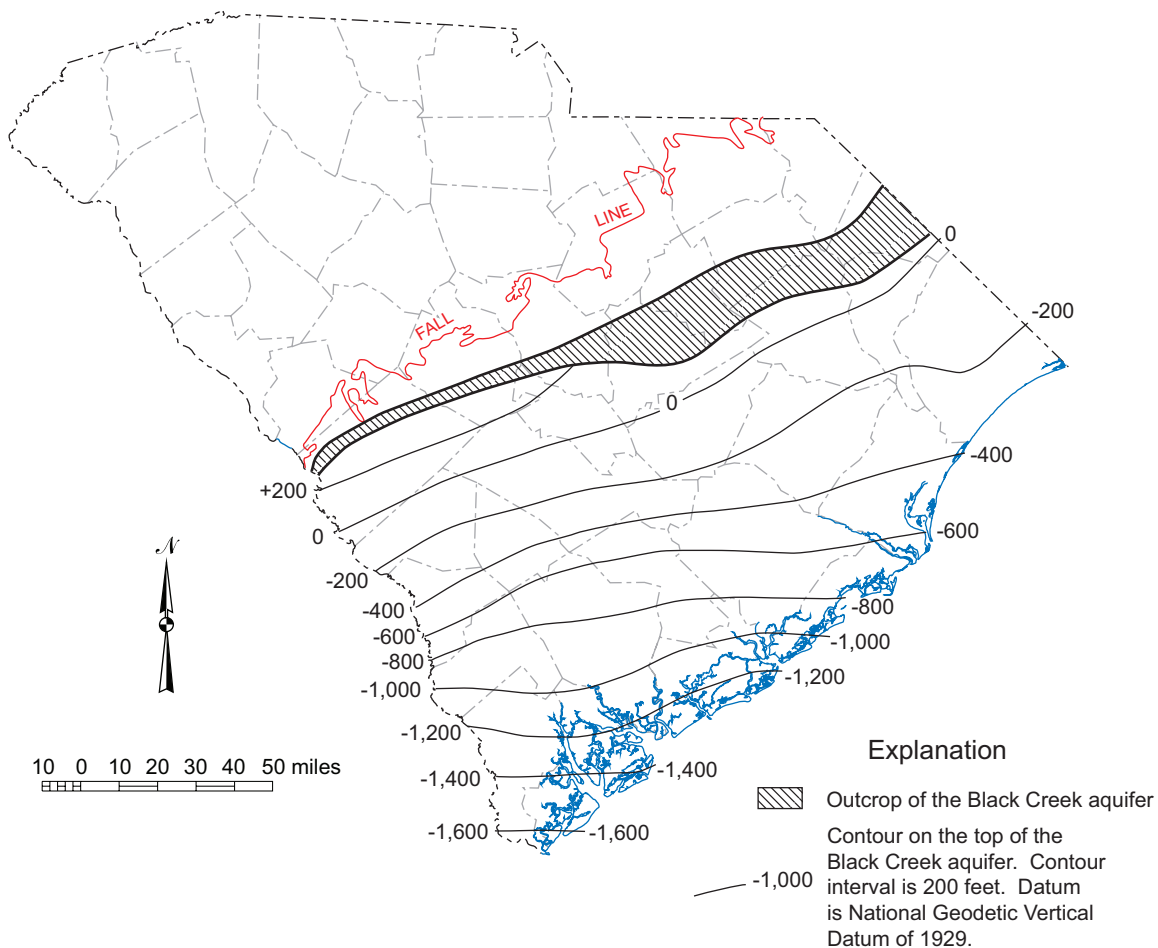


Figure 10. Contours on top of the Black Creek aquifer (from Aucott and others, 1987).

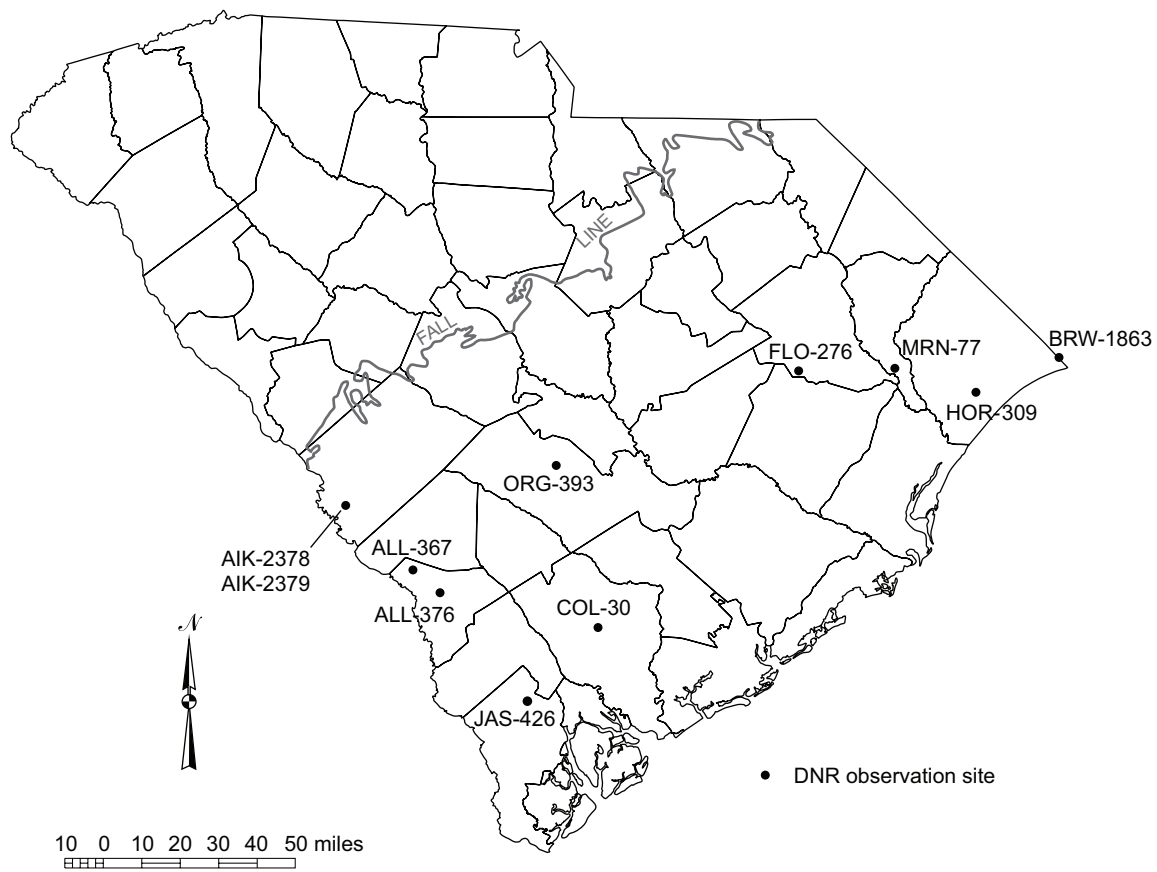


Figure 11. Locations of Black Creek aquifer observation wells.

AIKEN COUNTY

WELL NUMBER: AIK-2378

LATITUDE: 33° 21' 10"

GRID NUMBER: 40W-q2

LONGITUDE: 81° 48' 36"

LOCATION: 1.0 mile north of Jackson.

AQUIFER: Black Creek.

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

DATUM: Land surface is 220.25 ft above National Geodetic Vertical Datum of 1929.

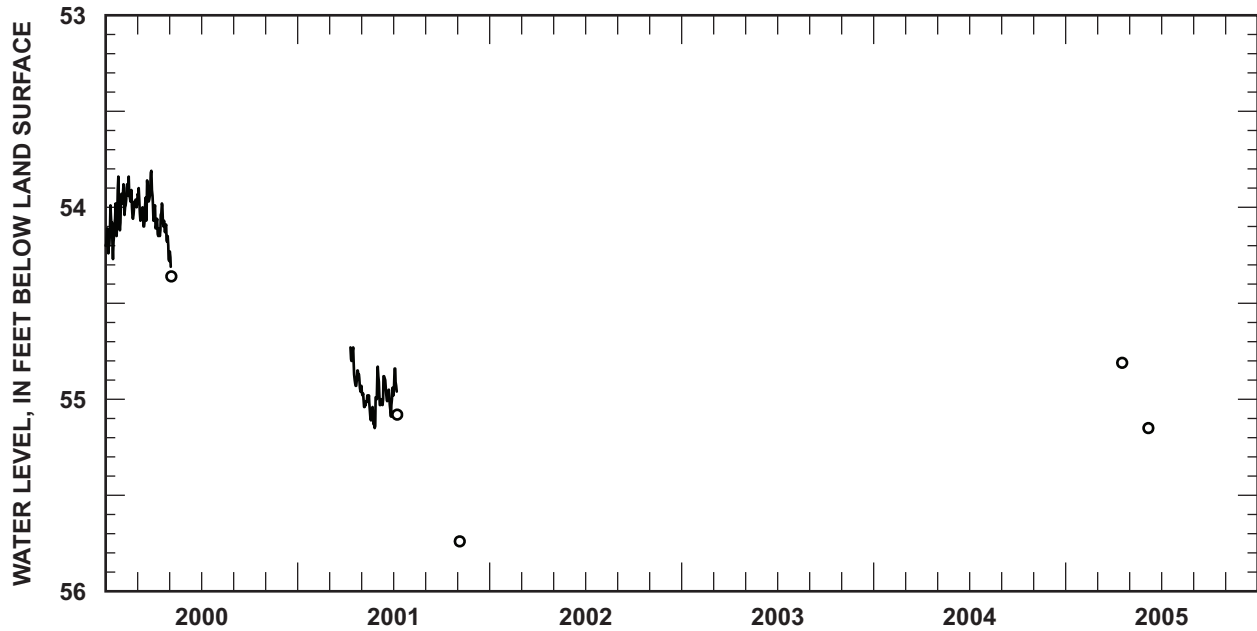
MEASURING POINT: Top of tee, 1.93 ft above land surface datum.

PERIOD OF RECORD: December 1995 to current year.

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

Lowest water level: 55.74 ft below land surface, November 5, 2001.

REMARKS: One of four wells drilled on site for Department of Energy and DNR project.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	53.84	53.84	53.81	53.98	--	--	--	--	--	--	--	--	53.81 (Mar. 28)
	MEAN	54.09	53.96	53.97	54.10	--	--	--	--	--	--	--	--	--
	LOW	54.27	54.06	54.10	54.27	--	--	--	--	--	--	--	--	54.27 (Jan. 15)
2001	HIGH	--	--	--	54.73	54.93	54.83	54.78	--	--	--	--	--	54.73 (Apr. 11)
	MEAN	--	--	--	54.85	55.03	54.97	54.90	--	--	--	--	--	--
	LOW	--	--	--	54.96	55.15	55.09	54.98	--	--	--	--	--	55.15 (May 27)
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

AIKEN COUNTY

WELL NUMBER: AIK-2379

LATITUDE: 33° 21' 10"

GRID NUMBER: 40W-q3

LONGITUDE: 81° 48' 36"

LOCATION: 1.0 mile north of Jackson.

AQUIFER: Black Creek.

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

DATUM: Land surface is 223.68 ft above National Geodetic Vertical Datum of 1929.

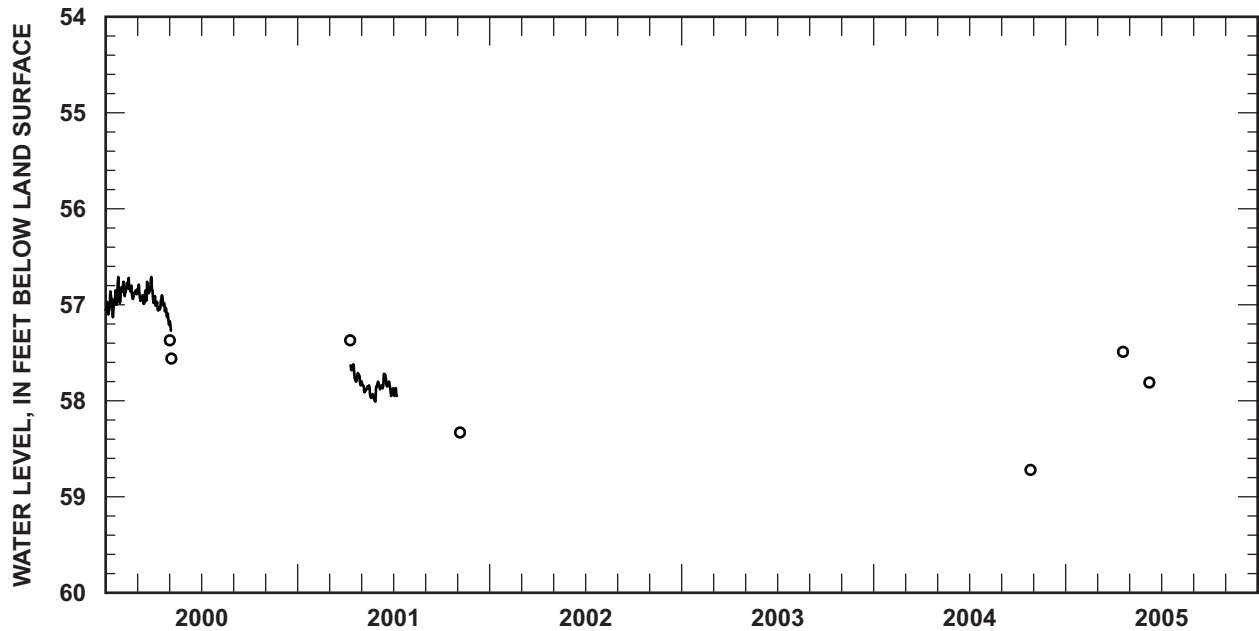
MEASURING POINT: Top of tee, 2.83 ft above land surface datum.

PERIOD OF RECORD: December 1995 to current year.

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

Lowest water level: 58.72 ft below land surface, October 25, 2004.

REMARKS: One of four wells drilled on site for Department of Energy and DNR project.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	56.71	56.72	56.71	56.90	57.17	--	--	--	--	--	--	--	56.71 (Jan. 25)
	MEAN	56.96	56.85	56.87	57.02	--	--	--	--	--	--	--	--	--
	LOW	57.13	56.94	56.99	57.20	57.31	--	--	--	--	--	--	--	57.31 (May 5)
2001	HIGH	--	--	--	57.60	57.80	57.72	57.87	--	--	--	--	--	57.60 (Apr. 10)
	MEAN	--	--	--	--	57.90	57.84	--	--	--	--	--	--	--
	LOW	--	--	--	57.84	58.01	57.95	57.95	--	--	--	--	--	58.01 (May 28)
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-367

LATITUDE: 33° 06' 48"

GRID NUMBER: 37Z-t8

LONGITUDE: 81° 30' 22"

LOCATION: Rolling Hills Road, Millet.

AQUIFER: Black Creek.

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

DATUM: Land surface is 245.74 ft above National Geodetic Vertical Datum of 1929.

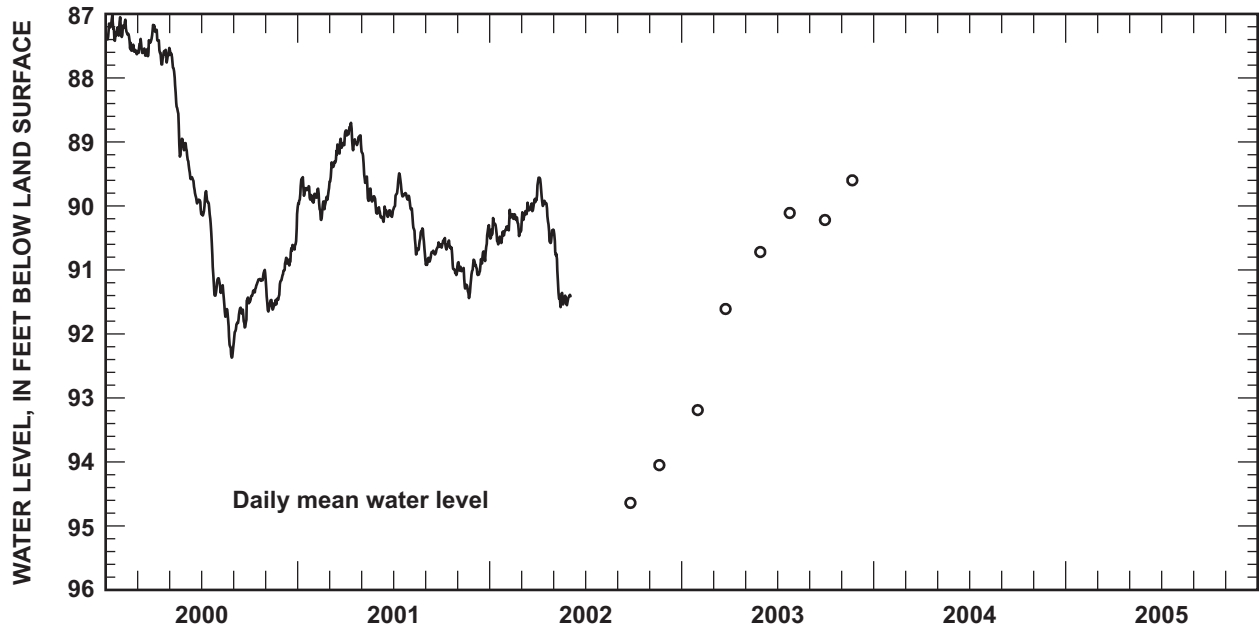
MEASURING POINT: Top of casing, 3.44 ft above land surface datum.

PERIOD OF RECORD: November 1995 to current year.

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

Lowest water level: 94.64 ft below land surface, September 25, 2002.

REMARKS: 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	
2000	HIGH	87.02	87.09	87.17	87.25	87.62	89.21	89.77	91.16	91.43	91.00	91.08	89.96	87.02 (Jan. 10)
	MEAN	87.24	87.44	87.47	87.56	88.58	89.73	90.53	91.76	91.69	91.22	91.45	90.68	89.61
	LOW	87.42	87.63	87.66	87.79	89.23	90.13	91.40	92.37	91.96	91.42	91.65	91.07	92.37 (Aug. 25)
2001	HIGH	89.55	89.62	88.82	88.70	89.17	90.01	89.49	90.01	90.57	90.50	90.84	90.30	88.70 (Apr. 10)
	MEAN	89.78	89.92	89.17	88.93	89.75	90.12	89.80	90.48	90.73	90.74	91.12	90.78	90.11
	LOW	89.95	90.22	89.62	89.15	90.12	90.25	90.02	90.92	90.92	91.08	91.44	91.08	91.44 (Nov. 21)
2002	HIGH	90.19	90.06	89.83	89.56	90.37	91.39	--	--	--	--	--	--	89.56 (Apr. 3)
	MEAN	90.43	90.25	90.05	90.04	91.21	--	--	--	--	--	--	--	--
	LOW	90.60	90.47	90.38	90.58	91.58	91.41	--	--	--	--	--	--	91.58 (May 15)
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-376

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q9

LONGITUDE: 81° 23' 05"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Black Creek.

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

DATUM: Land surface is 282.23 ft above National Geodetic Vertical Datum of 1929.

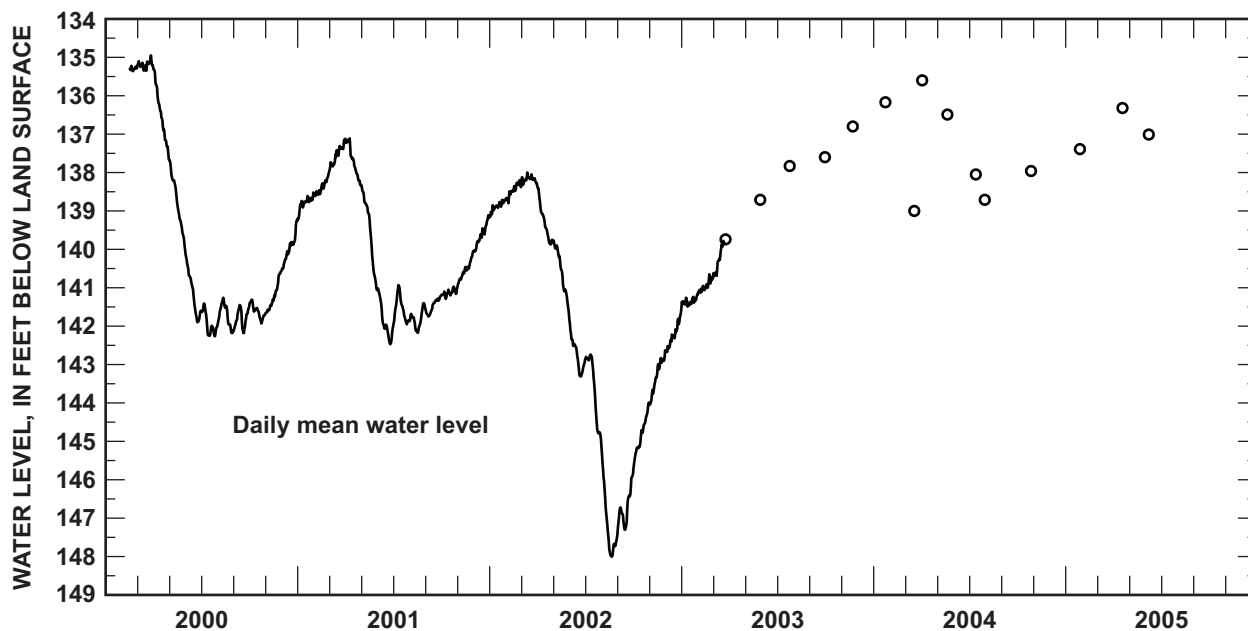
MEASURING POINT: Top of casing, 3.33 ft above land surface datum.

PERIOD OF RECORD: August 1996 to current year.

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

Lowest water level: 148.00 ft below land surface, August 21, 2002.

REMARKS: 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	
2000	HIGH	--	135.22	134.95	135.31	137.68	140.12	141.41	141.26	141.45	141.31	140.56	139.22	134.95 (Mar. 27)
	MEAN	--	135.30	135.19	136.47	138.77	141.14	141.94	141.73	141.79	141.62	141.21	139.97	139.56
	LOW	--	135.36	135.35	137.65	140.02	141.90	142.26	142.18	142.18	141.93	141.65	140.55	142.26 (Jul. 26)
2001	HIGH	138.52	138.03	137.13	137.11	138.32	141.02	140.93	141.40	141.20	140.97	140.05	139.11	137.11 (Apr. 9)
	MEAN	138.78	138.39	137.55	137.67	139.50	141.86	141.55	141.81	141.47	141.13	140.53	139.62	139.99
	LOW	139.20	138.61	137.98	138.34	141.06	142.47	141.98	142.17	141.75	141.29	140.91	140.06	142.47 (Jun. 25)
2002	HIGH	138.70	138.20	138.00	138.35	139.76	141.83	142.74	145.13	145.84	143.99	142.63	141.53	138.00 (Mar. 13)
	MEAN	138.87	138.46	138.18	139.27	140.55	142.73	143.59	147.13	146.73	144.83	143.29	142.22	142.17
	LOW	139.15	138.80	138.38	139.87	141.68	143.31	144.95	148.00	147.31	145.71	144.05	142.68	148.00 (Aug. 21)
2003	HIGH	141.18	140.65	139.78	--	--	--	--	--	--	--	--	--	139.78 (Mar. 21)
	MEAN	142.22	141.35	140.96	--	--	--	--	--	--	--	--	--	--
	LOW	141.49	141.13	140.75	--	--	--	--	--	--	--	--	--	141.49 (Jan. 12)
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

BRUNSWICK COUNTY, N.C.

WELL NUMBER: BRW-1863

LATITUDE: 33° 53' 33"

GRID NUMBER: 2Q-j4

LONGITUDE: 78° 35' 02"

LOCATION: N.C. Department of Environment and Natural Resources well cluster, Calabash.

AQUIFER: Black Creek.

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 516 ft. Screened from 496 to 506 ft.

DATUM: Land surface is 47.73 ft above National Geodetic Vertical Datum of 1929.

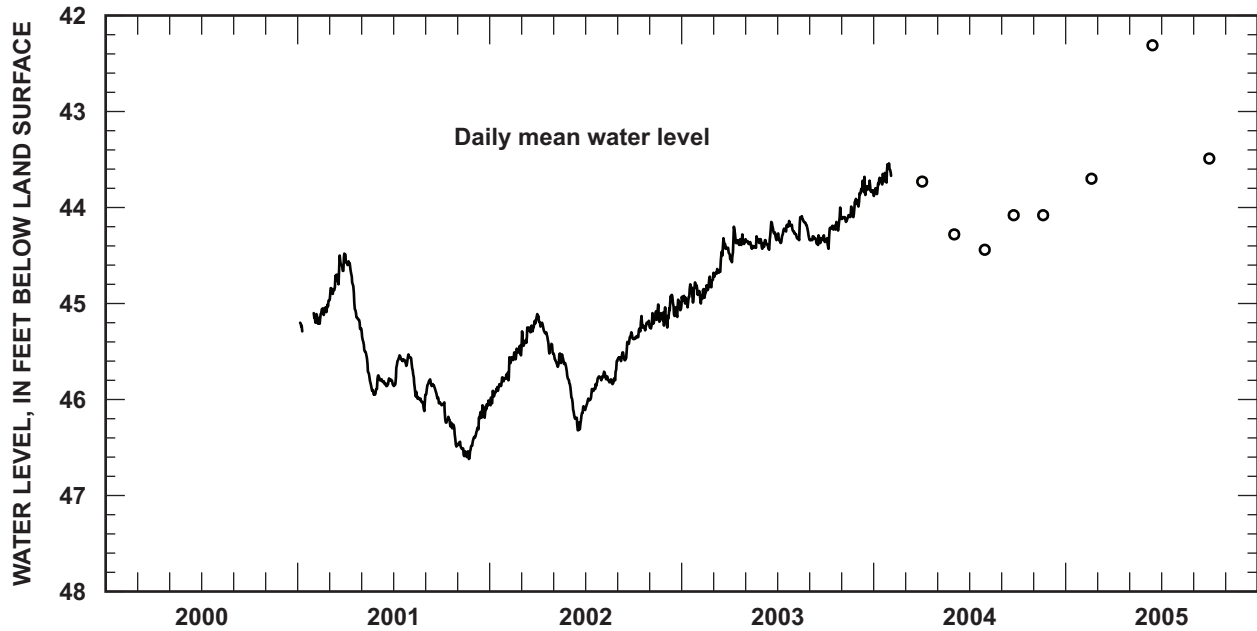
MEASURING POINT: Top of 4-inch casing, 2.42 ft above land surface datum.

PERIOD OF RECORD: January 2001 to current year.

EXTREMES: Highest water level: 42.31 ft below land surface, June 13, 2005.

Lowest water level: 46.62 ft below land surface, November 22, 2001.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	45.09	44.97	44.48	44.49	45.26	45.53	45.56	45.79	46.03	46.42	46.01	44.48 (Mar. 30)
	MEAN	45.21	45.11	44.73	44.86	45.69	45.81	45.64	45.89	45.91	46.24	46.52	45.65
	LOW	45.34	45.21	44.97	45.27	45.95	45.86	45.86	46.12	46.05	46.49	46.62	46.62 (Nov. 22)
2002	HIGH	45.77	45.44	45.13	45.11	45.52	45.83	45.76	45.60	45.30	45.13	44.91	44.91 (Dec. 13)
	MEAN	45.89	45.58	45.30	45.31	45.62	46.13	45.91	45.77	45.48	45.27	45.15	45.54
	LOW	46.06	45.80	45.54	45.52	45.80	46.32	46.11	45.84	45.60	45.37	45.26	46.32 (Jun. 17)
2003	HIGH	44.78	44.72	44.32	44.20	44.30	44.15	44.14	44.09	44.29	44.00	43.91	43.68 (Dec. 14)
	MEAN	44.91	44.86	44.55	44.39	44.37	44.33	44.25	44.22	44.33	44.23	44.07	44.36
	LOW	45.04	45.00	44.75	44.57	44.43	44.44	44.37	44.34	44.39	44.43	44.15	45.04 (Jan. 12)
2004	HIGH	43.54	43.61	--	--	--	--	--	--	--	--	--	--
	MEAN	43.72	--	--	--	--	--	--	--	--	--	--	--
	LOW	43.88	43.67	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

COLLETON COUNTY

WELL NUMBER: COL-30

LATITUDE: 32° 53' 47"

GRID NUMBER: 27CC-j1

LONGITUDE: 80° 40' 42"

LOCATION: Kline Street, Walterboro.

AQUIFER: Black Creek.

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

DATUM: Land surface is 61.30 ft above National Geodetic Vertical Datum of 1929.

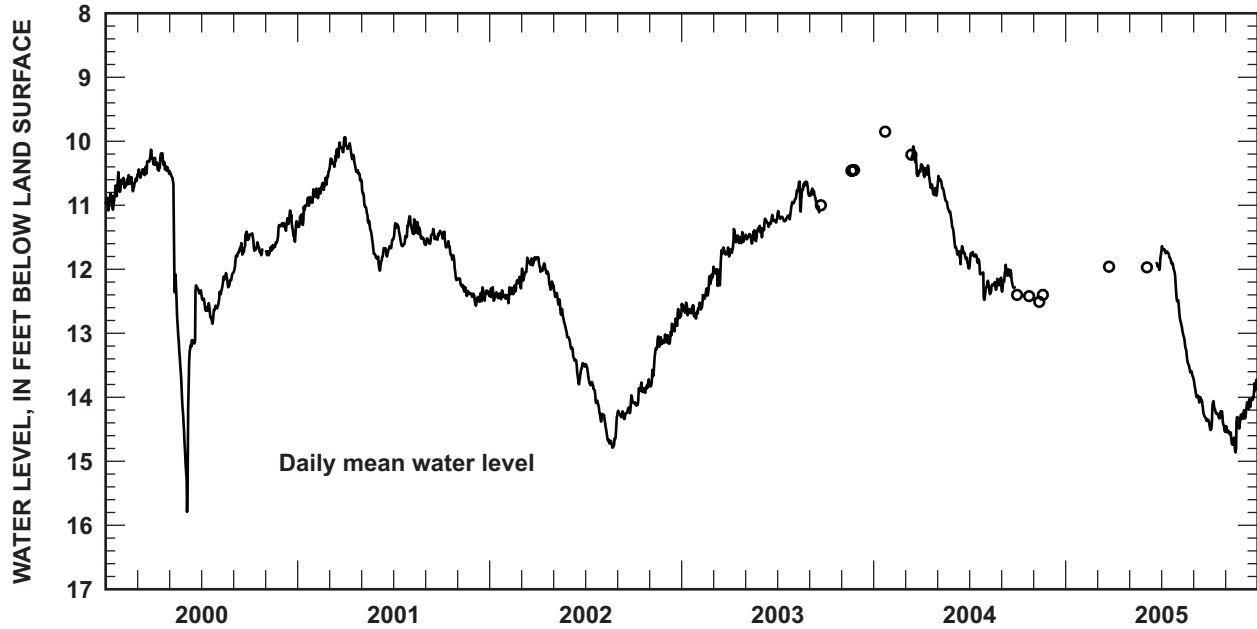
MEASURING POINT: Top of sanitary seal, 0.30 ft above land surface datum.

PERIOD OF RECORD: November 1995 to current year.

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

Lowest water level: 15.79 ft below land surface, June 4, 2000.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	10.48	10.53	10.13	10.19	10.47	12.25	12.38	12.05	11.41	11.44	11.30	11.08	10.13 (Mar. 27)
	MEAN	10.85	10.65	10.41	10.36	12.52	13.28	12.61	12.24	11.68	11.62	11.60	11.31	11.59
	LOW	11.08	10.78	10.57	10.48	14.87	15.79	12.85	12.57	12.04	11.78	11.78	11.57	15.79 (Jun. 4)
2001	HIGH	10.75	10.47	9.94	9.94	10.60	11.53	11.22	11.17	11.37	11.41	12.14	12.28	9.94 (Mar. 30)
	MEAN	11.05	10.73	10.21	10.28	11.29	11.76	11.45	11.40	11.50	11.73	12.31	12.42	11.34
	LOW	11.34	10.89	10.46	10.62	11.83	12.02	11.64	11.61	11.62	12.17	12.43	12.57	12.57 (Dec. 5)
2002	HIGH	12.28	12.12	11.81	11.81	12.24	13.09	13.48	14.26	13.97	13.72	13.02	12.62	11.81 (Mar. 27)
	MEAN	12.41	12.31	11.95	12.05	12.66	13.46	13.88	14.55	14.21	13.93	13.33	12.92	13.14
	LOW	12.49	12.53	12.30	12.32	13.07	13.80	14.38	14.79	14.34	14.13	13.83	13.16	14.79 (Aug. 22)
2003	HIGH	12.52	12.08	11.66	11.37	11.32	11.15	10.95	10.63	10.74	--	--	--	10.63 (Aug. 12)
	MEAN	12.64	12.39	11.89	11.57	11.47	11.28	11.16	10.79	--	--	--	--	--
	LOW	12.77	12.63	12.26	11.80	11.60	11.50	11.25	11.10	11.11	--	--	--	12.77 (Jan. 28)
2004	HIGH	--	--	10.08	10.36	10.54	11.45	11.73	12.13	11.93	--	--	--	10.08 (Mar. 16)
	MEAN	--	--	--	10.60	10.90	11.75	11.95	12.25	12.14	--	--	--	--
	LOW	--	--	10.54	10.85	11.37	11.99	12.48	12.39	12.35	--	--	--	12.48 (Jul. 29)
2005	HIGH	--	--	--	--	--	--	11.64	12.48	13.75	14.06	14.27	13.72	11.64 (Jul. 2)
	MEAN	--	--	--	--	--	--	11.88	13.19	14.13	14.32	14.54	14.07	--
	LOW	--	--	--	--	--	--	12.50	13.71	14.41	14.54	14.86	14.34	14.86 (Nov. 19)

FLORENCE COUNTY

WELL NUMBER: FLO-276

LATITUDE: 33° 51' 22"

GRID NUMBER: 16Q-s2

LONGITUDE: 79° 46' 00"

LOCATION: Lake City Airport.

AQUIFER: Black Creek.

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

DATUM: Land surface is 79.00 ft above National Geodetic Vertical Datum of 1929.

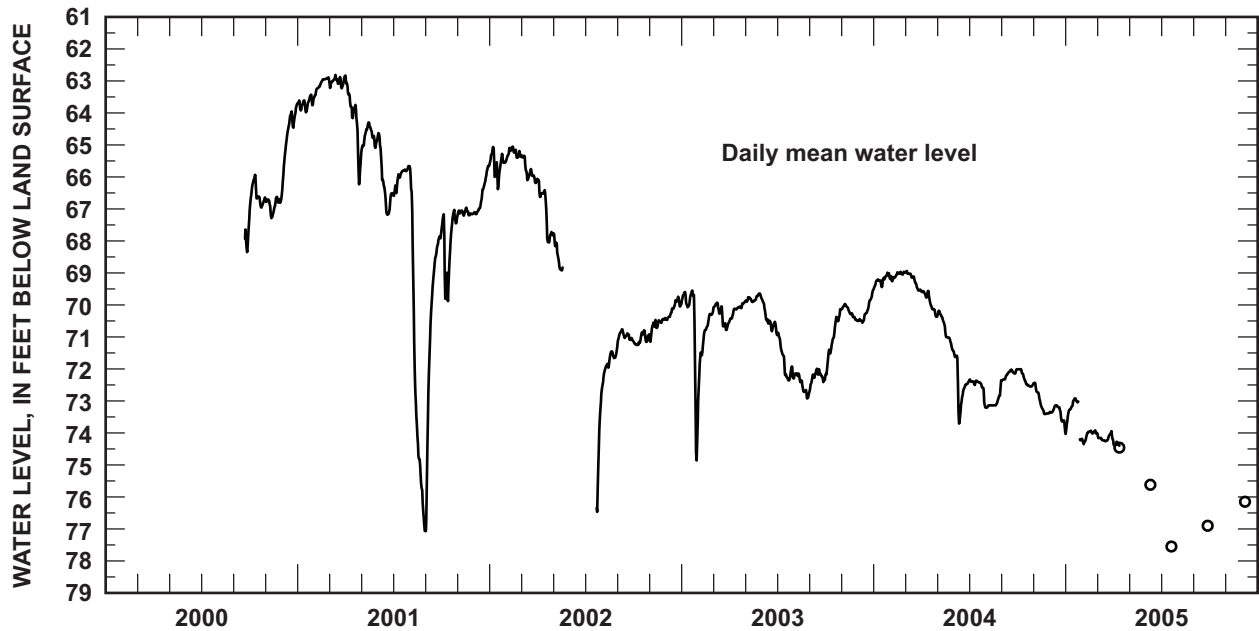
MEASURING POINT: Top of casing, 1.31 ft above land surface datum.

PERIOD OF RECORD: September 2000 to current year.

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

Lowest water level: 77.55 ft below land surface, July 20, 2005.

REMARKS: Drilled and cored for USGS Regional Aquifer System Analysis project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	67.32	65.93	66.62	63.70	63.70 (Dec. 31)
	MEAN	--	--	--	--	--	--	--	67.92	66.57	66.86	64.65	--
	LOW	--	--	--	--	--	--	--	68.35	67.06	67.29	66.58	68.35 (Sep. 26)
2001	HIGH	63.43	62.89	62.81	62.83	64.30	64.63	65.66	67.78	67.03	66.96	65.62	62.81 (Mar. 13)
	MEAN	63.69	63.10	63.01	64.10	64.74	66.16	66.01	72.63	70.24	68.06	67.11	66.28
	LOW	63.98	63.50	63.23	66.23	65.26	67.18	66.59	77.07	77.07	69.88	67.21	67.16
2002	HIGH	65.06	65.05	65.33	66.06	67.76	--	73.00	71.29	70.76	70.79	70.41	65.05 (Feb. 13)
	MEAN	65.59	65.25	65.81	67.02	--	--	71.83	70.97	71.07	70.62	70.13	--
	LOW	66.38	65.47	66.19	68.05	68.92	--	76.47	72.76	71.15	71.25	71.15	76.47 (Jul. 24)
2003	HIGH	69.55	70.27	69.93	69.92	69.64	69.78	70.87	72.14	71.99	70.13	69.97	69.53 (Dec. 31)
	MEAN	70.59	71.03	70.31	70.16	69.80	70.42	71.75	72.47	72.25	71.04	70.21	70.85
	LOW	74.86	73.01	70.78	70.53	69.91	70.88	72.36	72.92	72.68	72.19	70.49	74.86 (Jan. 29)
2004	HIGH	68.99	68.96	68.94	69.56	70.18	71.46	72.33	72.35	72.01	72.01	72.43	68.94 (Mar. 4)
	MEAN	69.22	69.07	69.22	69.89	70.76	72.49	72.51	73.03	72.15	72.32	73.07	71.43
	LOW	69.49	69.26	69.56	70.37	71.42	73.71	73.20	73.21	72.36	72.55	73.41	74.03 (Dec. 31)
2005	HIGH	72.92	73.92	73.94	74.27	--	--	--	--	--	--	--	72.92 (Jan. 25)
	MEAN	73.38	74.06	74.16	--	--	--	--	--	--	--	--	--
	LOW	74.23	74.35	74.26	74.40	--	--	--	--	--	--	--	74.40 (Apr. 12)

HORRY COUNTY

WELL NUMBER: HOR-309

LATITUDE: 33° 46' 07"

GRID NUMBER: 6R-q3

LONGITUDE: 78° 58' 05"

LOCATION: U.S. Highway 501, near Conway.

AQUIFER: Black Creek.

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

DATUM: Land surface is 42.84 ft above National Geodetic Vertical Datum of 1929.

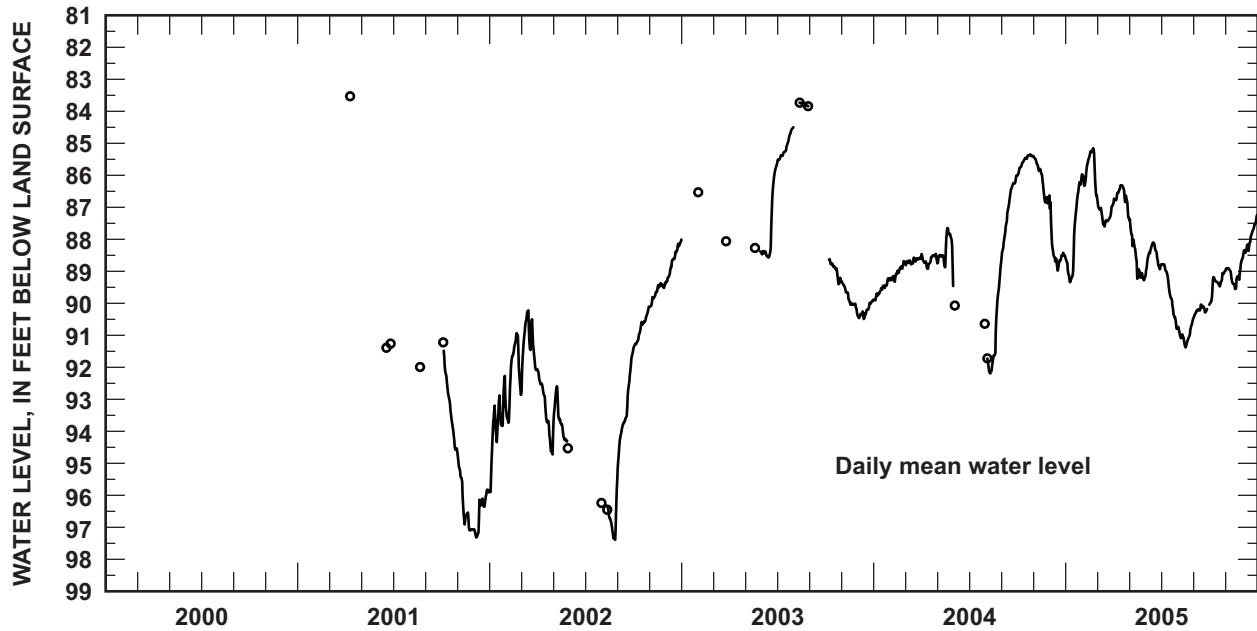
MEASURING POINT: Top of 4-inch casing, 4.00 ft above land surface datum.

PERIOD OF RECORD: April 2001 to current year.

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

Lowest water level: 97.39 ft below land surface, August 27, 2002.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	91.48	94.82	95.82	91.48 (Oct. 5)	
	MEAN	--	--	--	--	--	--	--	--	93.24	96.33	96.48	--	
	LOW	--	--	--	--	--	--	--	--	94.66	97.09	97.32	97.32 (Dec. 6)	
2002	HIGH	92.27	90.93	90.22	92.06	92.59	--	95.48	91.49	90.10	89.36	88.01	88.01 (Dec. 31)	
	MEAN	93.77	92.14	91.26	93.26	93.70	--	--	93.31	90.78	89.65	88.67	--	
	LOW	95.90	93.73	92.86	94.72	94.40	--	97.39	95.15	91.40	90.11	89.38	97.39 (Aug. 27)	
2003	HIGH	--	--	--	--	85.69	84.52	--	--	88.62	89.32	89.90	84.52 (Jul. 31)	
	MEAN	--	--	--	--	87.66	85.14	--	--	--	89.81	90.23	--	
	LOW	--	--	--	--	88.57	85.64	--	--	89.40	90.29	90.49	90.49 (Dec. 13)	
2004	HIGH	89.22	88.68	88.55	88.46	87.65	--	88.59	86.01	85.35	85.44	86.84	85.35 (Oct. 24)	
	MEAN	89.57	89.04	88.67	88.65	88.35	--	90.85	86.94	85.54	86.16	88.42	88.22	
	LOW	89.91	89.33	88.81	88.92	89.46	--	92.19	88.41	85.99	86.88	88.98	92.19 (Aug. 10)	
2005	HIGH	85.97	85.15	86.76	86.31	87.38	88.10	88.78	90.45	90.04	88.98	88.69	87.23	85.15 (Feb. 21)
	MEAN	87.83	85.76	87.23	86.64	88.60	88.52	89.61	90.97	90.20	89.37	89.14	88.00	88.49
	LOW	89.34	86.63	87.60	87.32	89.28	89.10	90.80	91.38	90.42	90.01	89.55	88.63	91.38 (Aug. 16)

JASPER COUNTY

WELL NUMBER: JAS-426

LATITUDE: 32° 37' 06"

GRID NUMBER: 30FF-o2

LONGITUDE: 80° 59' 45"

LOCATION: U.S. Highway 278, Gillisonville.

AQUIFER: Black Creek.

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

DATUM: Land surface is 63.20 ft above National Geodetic Vertical Datum of 1929.

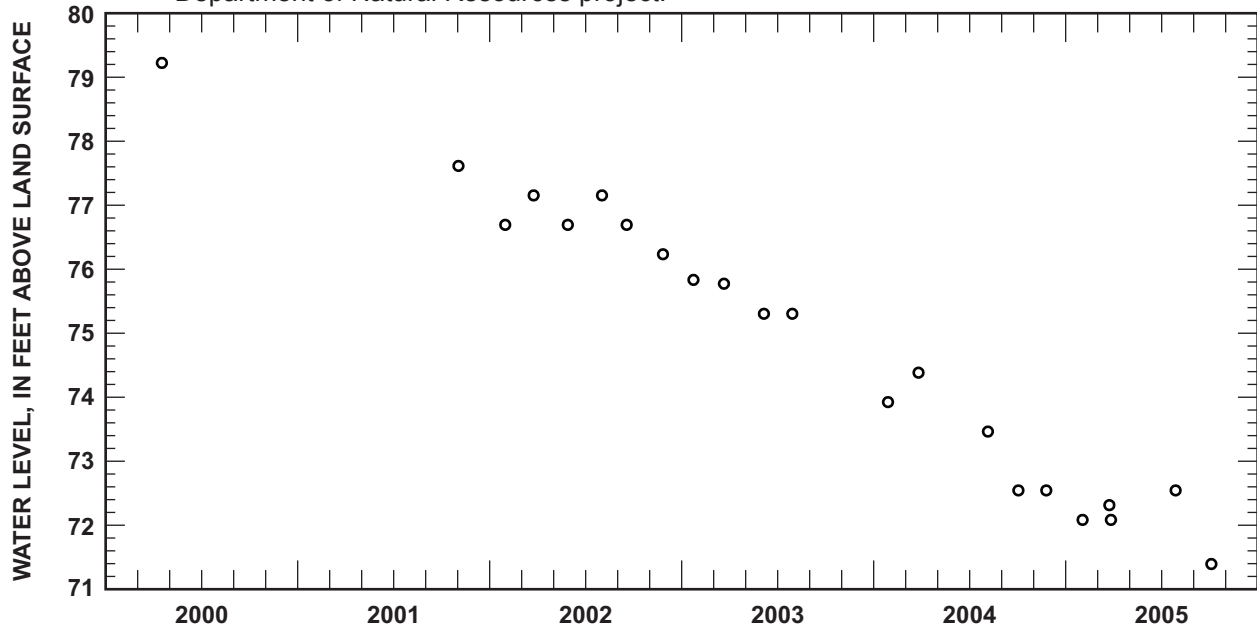
MEASURING POINT: Top of well-head blind flange, 1.20 ft above land surface datum.

PERIOD OF RECORD: April 2000 to current year.

EXTREMES: Highest water level: 79.23 ft above land surface, April 17, 2000.

Lowest water level: 71.40 ft above land surface, October 3, 2005.

REMARKS: One of two wells drilled on site for U.S. Department of Energy and South Carolina Department of Natural Resources project.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

MARION COUNTY

WELL NUMBER: MRN-77

LATITUDE: 33° 51' 43"

GRID NUMBER: 10Q-p1

LONGITUDE: 79° 19' 50"

LOCATION: Brittons Neck fire tower, U.S. Hwy. 378.

AQUIFER: Black Creek.

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

DATUM: Land surface is 31.66 ft above National Geodetic Vertical Datum of 1929.

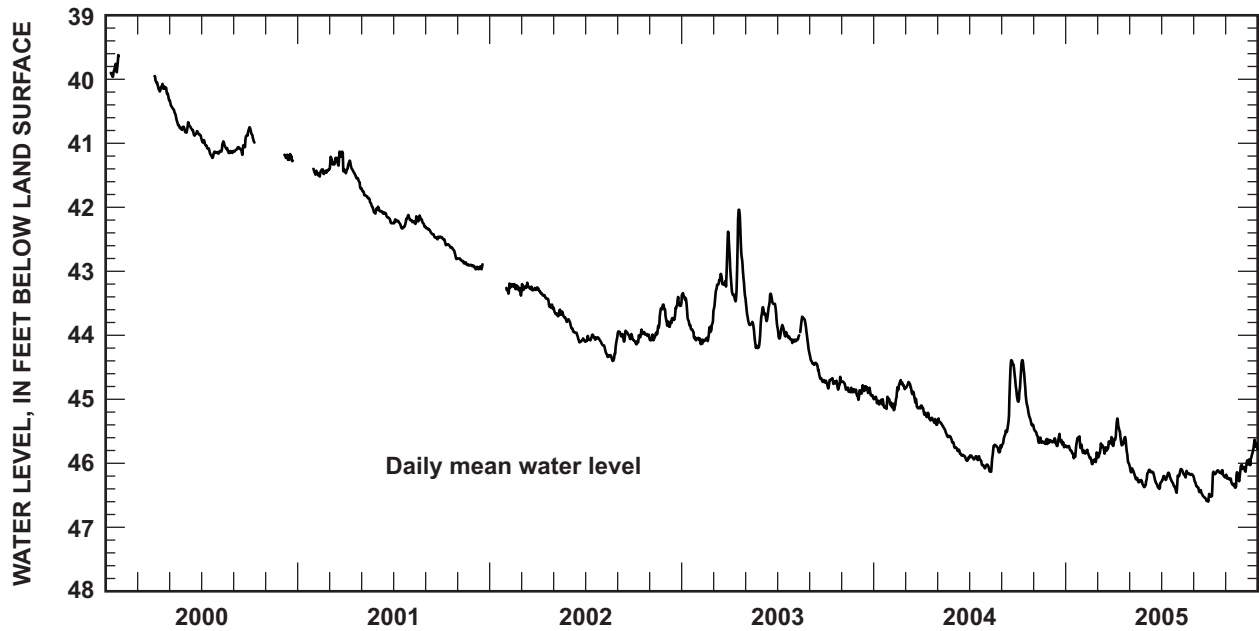
MEASURING POINT: Top of plywood platform, 1.81 ft above land surface datum.

PERIOD OF RECORD: August 1982 to current year.

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

Lowest water level: 46.60 ft below land surface, September 28, 2005.

REMARKS: Monitored by USGS until December 2001.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH 39.62	--	--	39.95	40.33	40.67	40.92	40.97	40.76	40.75	--	41.17	39.62 (Jan. 25)
	MEAN 39.83	--	--	40.13	40.61	40.81	41.09	41.10	41.03	40.89	--	41.22	--
	LOW 39.96	--	--	40.31	40.82	40.89	41.23	41.16	41.18	41.00	--	41.32	41.32 (Dec. 21)
2001	HIGH 41.40	41.41	41.13	41.27	41.70	41.99	42.12	42.13	42.31	42.47	42.80	42.89	41.13 (Mar. 21)
	MEAN --	41.45	41.28	41.47	41.90	42.12	42.24	42.22	42.42	42.62	42.87	42.94	--
	LOW 41.41	41.52	41.44	41.71	42.10	42.25	42.33	42.31	42.50	42.81	42.92	42.97	42.97 (Dec. 5)
2002	HIGH 43.25	43.19	43.18	43.25	43.57	43.78	43.99	44.03	43.93	43.91	43.52	43.40	43.18 (Mar. 13)
	MEAN 43.25	43.26	43.27	43.41	43.68	43.99	44.05	44.25	44.00	44.02	43.85	43.68	43.73
	LOW 43.25	43.35	43.38	43.58	43.79	44.11	44.10	44.40	44.10	44.14	44.08	43.87	44.40 (Aug. 22)
2003	HIGH 43.34	43.82	42.38	42.04	43.38	43.35	43.84	43.71	44.30	44.65	44.72	44.78	42.04 (Apr. 9)
	MEAN 43.76	44.03	43.16	42.94	43.89	43.58	43.99	43.97	44.54	44.74	44.84	44.89	44.03
	LOW 44.08	44.14	43.78	43.47	44.20	43.78	44.12	44.26	44.74	44.85	44.94	45.01	45.01 (Dec. 3)
2004	HIGH 44.96	44.70	44.73	45.10	45.30	45.69	45.88	45.71	44.39	44.39	45.47	45.54	44.39 (Sep. 18)
	MEAN 45.04	44.92	44.94	45.27	45.49	45.85	45.95	45.89	45.06	44.98	45.63	45.67	45.39
	LOW 45.15	45.17	45.14	45.40	45.68	45.96	46.08	46.13	45.71	45.43	45.70	45.75	46.13 (Aug. 11)
2005	HIGH 45.58	45.79	45.59	45.30	46.03	46.10	46.15	46.09	46.24	46.11	46.03	45.63	45.30 (Apr. 8)
	MEAN 45.76	45.89	45.76	45.64	46.22	46.24	46.27	46.16	46.45	46.22	46.24	45.92	46.06
	LOW 45.92	46.01	45.91	46.00	46.37	46.40	46.46	46.22	46.60	46.52	46.38	46.13	46.60 (Sep. 28)

ORANGEBURG COUNTY

WELL NUMBER: ORG-393

LATITUDE: 33° 30' 29"

GRID NUMBER: 29U-v1

LONGITUDE: 80° 51' 54"

LOCATION: Clark Middle School, Orangeburg.

AQUIFER: Black Creek.

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

DATUM: Land surface is 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

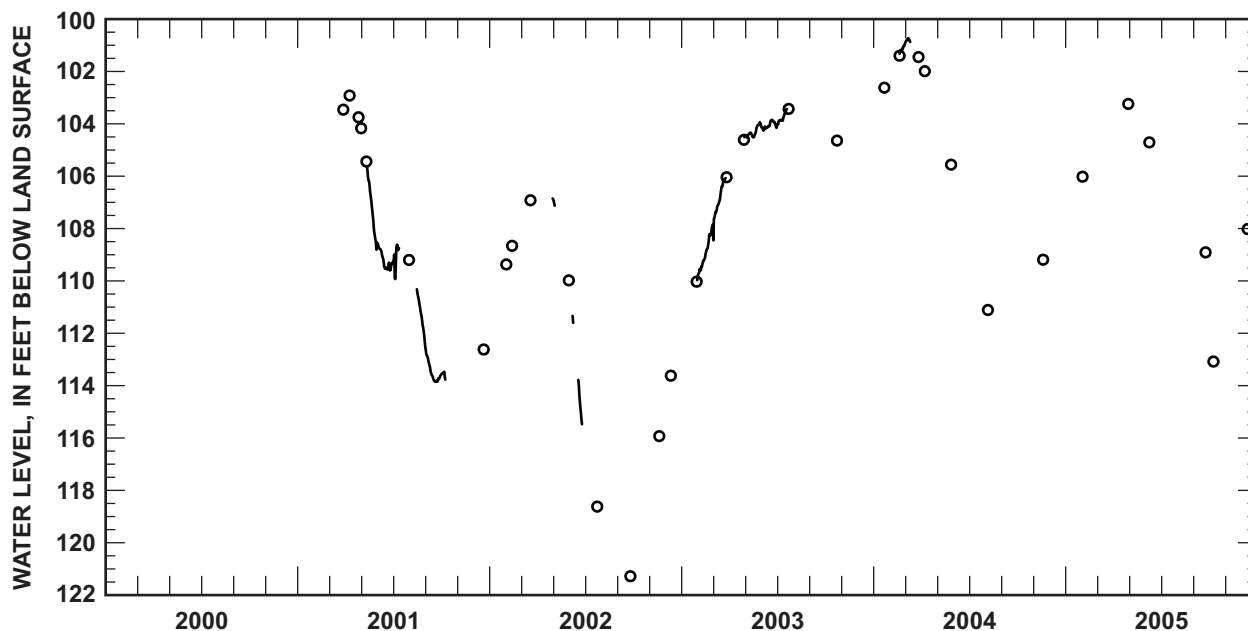
MEASURING POINT: Top of 2-inch extension casing, 3.51 ft above land surface datum.

PERIOD OF RECORD: March 2001 to current year.

EXTREMES: Highest water level: 101.40 ft below land surface, February 18, 2004.

Lowest water level: 121.28 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
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	105.54	108.57	108.62	110.19	112.67	113.47	--	--	105.54 (May 11)
	MEAN	--	--	--	--	109.21	--	--	113.50	--	--	--	--
	LOW	--	--	--	108.81	109.61	109.93	112.53	113.85	113.84	--	--	113.85 (Sep. 19)
2002	HIGH	--	--	106.28	--	--	--	--	--	--	116.23	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	106.85	--	--	--	--	--	--	117.61	--	--
2003	HIGH	--	107.93	106.07	--	103.94	103.85	103.43	--	--	--	--	103.43 (Jul. 20)
	MEAN	--	108.94	--	--	104.32	104.06	--	--	--	--	--	--
	LOW	--	109.76	108.45	--	104.52	104.26	104.06	--	--	--	--	109.76 (Feb. 1)
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

Tertiary-Sand Aquifer

Aucott, Davis and Speiran (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.

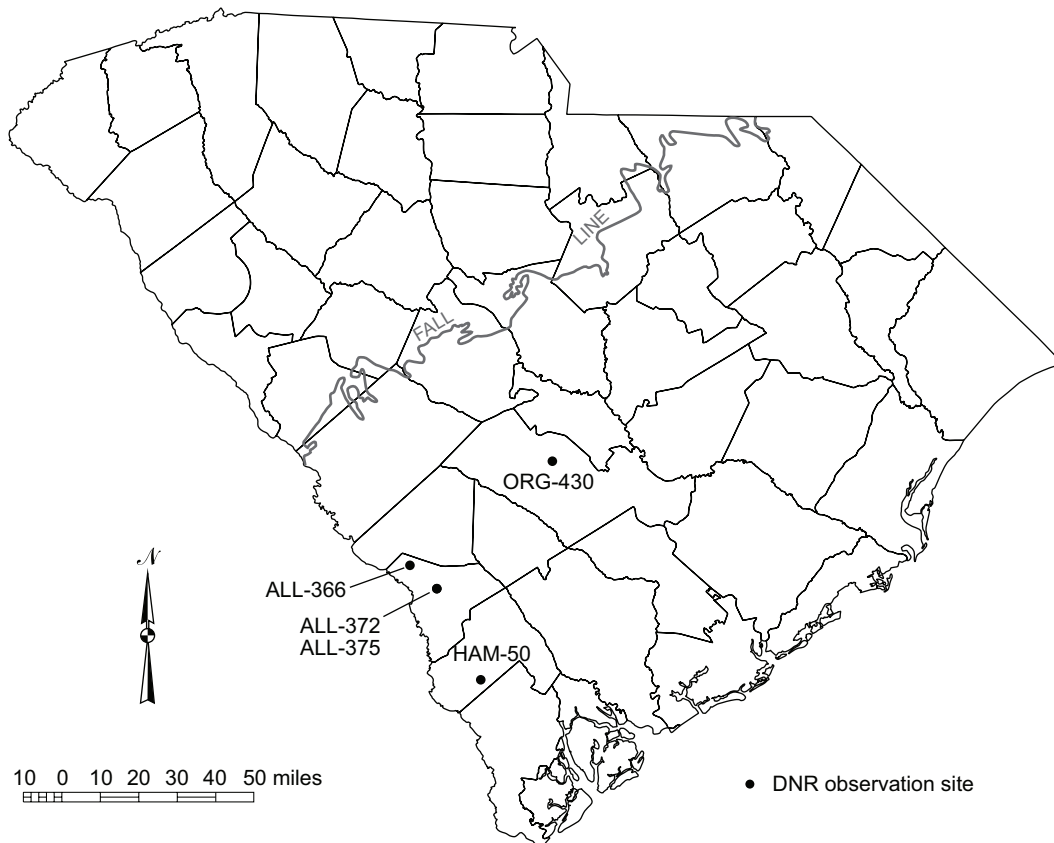


Figure 12. Locations of Tertiary-sand aquifer observation wells.

ALLENDALE COUNTY

WELL NUMBER: ALL-366

LATITUDE: 33° 06' 48"

GRID NUMBER: 37Z-t7

LONGITUDE: 81° 30' 22"

LOCATION: Rolling Hills Road, Millet.

AQUIFER: Tertiary sand.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 400 ft. Screened from 385 to 395 ft.

DATUM: Land surface is 243.50 ft above National Geodetic Vertical Datum of 1929.

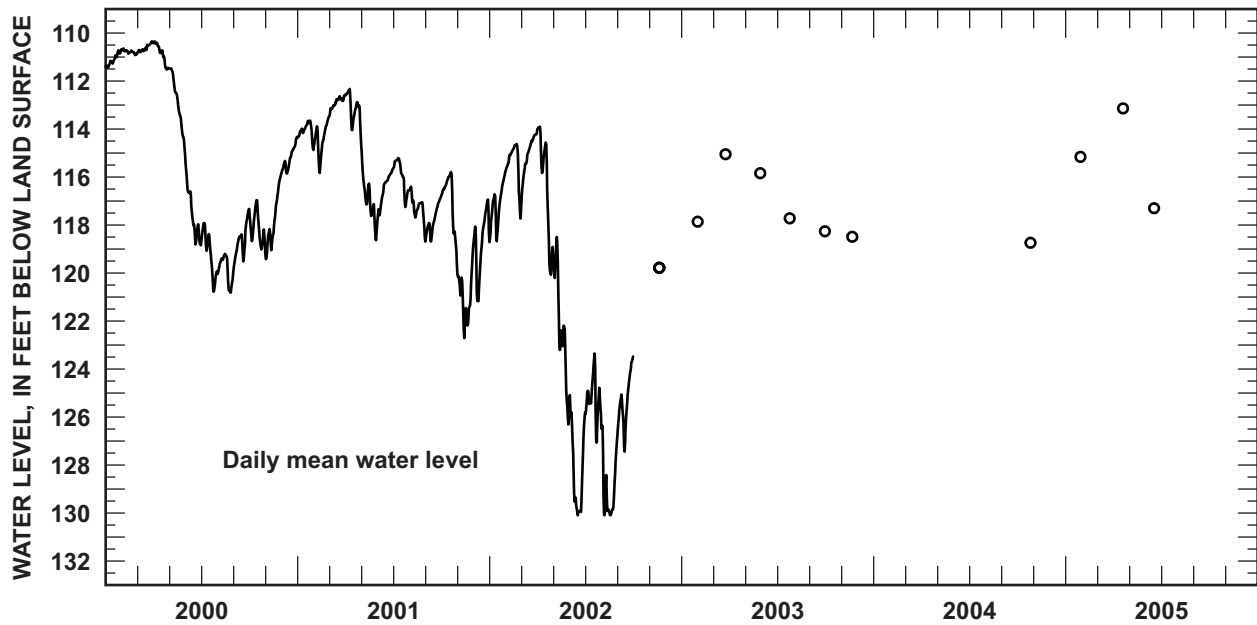
MEASURING POINT: Top of casing, 3.16 ft above land surface datum.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 108.34 ft below land surface, May 8, 1998.

Lowest water level: 130.10 ft below land surface, July 24, 2002.

REMARKS: 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	
2000	HIGH	110.68	110.64	110.35	110.35	111.47	115.40	117.91	119.20	117.33	116.96	115.86	114.33	110.35 (Mar. 29)
	MEAN	111.10	110.78	110.62	110.86	112.87	117.54	119.17	119.87	118.61	118.15	117.75	115.19	115.21
	LOW	111.43	110.92	110.84	111.52	115.09	118.84	120.77	120.82	119.74	119.23	119.42	115.85	120.82 (Aug. 26)
2001	HIGH	113.65	113.51	112.58	112.33	114.67	115.68	115.21	116.40	116.81	115.79	118.91	116.94	112.33 (Apr. 9)
	MEAN	114.07	114.43	112.91	113.07	116.93	116.51	115.95	117.26	117.76	117.02	120.99	118.73	116.30
	LOW	114.87	115.83	113.48	114.19	118.63	117.77	117.25	118.69	118.69	120.05	122.71	121.17	122.71 (Nov. 13)
2002	HIGH	115.72	114.62	114.16	113.90	118.50	125.09	123.35	126.37	123.48	--	--	--	113.90 (Apr. 6)
	MEAN	117.11	115.36	115.12	116.27	122.15	128.20	125.23	128.94	125.32	--	--	--	--
	LOW	118.67	117.73	117.44	120.07	126.31	130.10	127.06	130.10	127.44	--	--	--	130.10 (Jun. 17)
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-372

LATITUDE: 33° 01' 29"

GRID NUMBER: 35AA-q5

LONGITUDE: 81° 23' 04"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Tertiary sand.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 155 ft. Screened from 140 to 150 ft.

DATUM: Land surface is 282.04 ft above National Geodetic Vertical Datum of 1929.

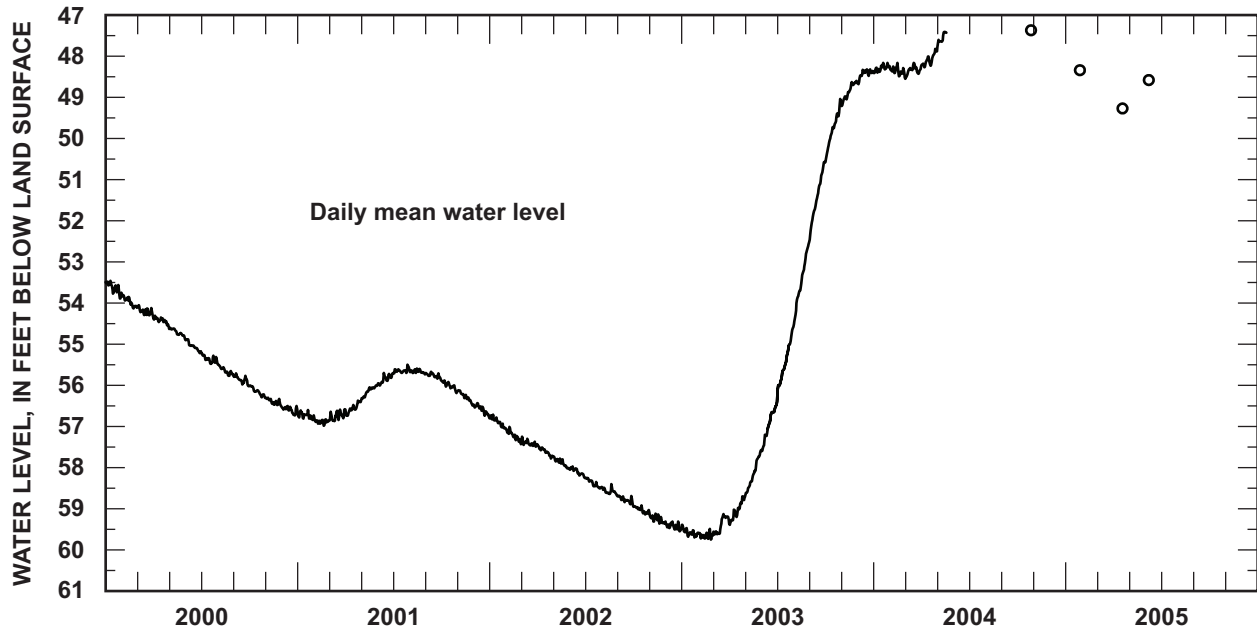
MEASURING POINT: Top of casing, 2.96 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

EXTREMES: Highest water level: 38.14 ft below land surface, June 3, 1998.

Lowest water level: 59.75 ft below land surface, February 25, 2003.

REMARKS: 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
2000	HIGH	53.46	53.78	54.05	54.31	54.60	54.88	55.22	55.48	55.71	56.00	56.30	56.50	53.46 (Jan. 10)
	MEAN	53.63	53.96	54.20	54.42	54.71	55.05	55.35	55.64	55.87	56.15	56.40	56.59	55.16
	LOW	53.89	54.13	54.31	54.59	54.88	55.22	55.48	55.77	56.02	56.31	56.51	56.73	56.73 (Dec. 26)
2001	HIGH	56.60	56.80	56.58	56.37	56.00	55.70	55.50	55.59	55.67	55.88	56.12	56.43	55.50 (Jul. 28)
	MEAN	56.73	56.88	56.74	56.56	56.14	55.85	55.64	55.67	55.76	56.01	56.28	56.59	56.24
	LOW	56.84	56.98	56.87	56.74	56.36	56.00	55.71	55.73	55.88	56.19	56.49	56.80	56.98 (Feb. 19)
2002	HIGH	56.71	57.01	57.25	57.43	57.73	57.97	58.25	58.40	58.68	58.92	59.12	59.31	56.71 (Jan. 7)
	MEAN	56.89	57.21	57.41	57.60	57.88	58.09	58.38	58.57	58.78	59.03	59.25	59.43	58.09
	LOW	57.06	57.38	57.49	57.78	58.02	58.25	58.51	58.69	58.93	59.14	59.36	59.55	59.55 (Dec. 28)
2003	HIGH	59.39	59.49	59.13	58.70	57.59	56.48	54.61	52.52	50.57	49.04	48.60	48.32	48.32 (Dec. 19)
	MEAN	59.57	59.65	59.40	59.05	58.18	56.99	55.46	53.49	51.42	49.77	48.85	48.43	55.02
	LOW	59.70	59.75	59.65	59.39	58.71	57.60	56.40	54.58	52.46	50.57	49.21	48.68	59.75 (Feb. 25)
2004	HIGH	48.16	48.16	48.16	48.21	47.41	--	--	--	--	--	--	--	47.41 (May 14)
	MEAN	48.29	48.36	48.34	--	--	--	--	--	--	--	--	--	--
	LOW	48.41	48.51	48.55	48.21	47.78	--	--	--	--	--	--	--	48.55 (Mar. 1)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-375

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q8

LONGITUDE: 81° 23' 06"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Tertiary sand.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 583 ft. Screened from 453 to 578 ft.

DATUM: Land surface is 282.89 ft above National Geodetic Vertical Datum of 1929.

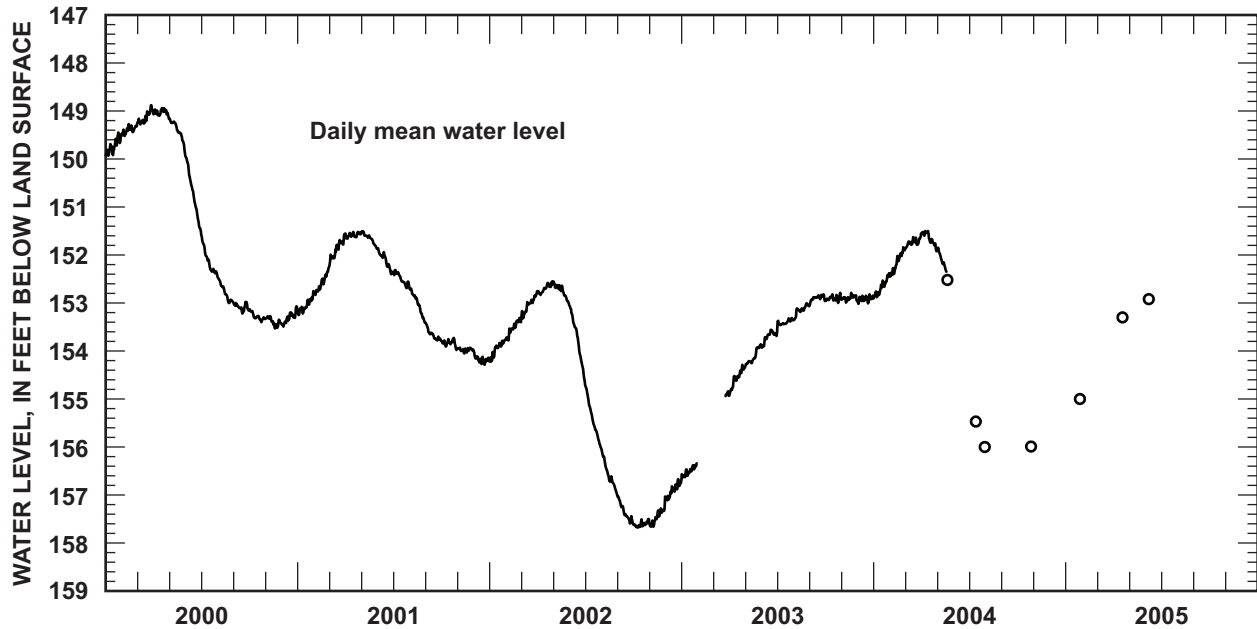
MEASURING POINT: Top of casing, 3.46 ft above land surface datum.

PERIOD OF RECORD: October 1996 to current year.

EXTREMES: Highest water level: 145.98 ft below land surface, May 8, 1998.

Lowest water level: 157.68 ft below land surface, October 9, 2002.

REMARKS: 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
2000	HIGH	149.45	149.27	148.88	148.94	149.16	149.95	151.58	152.46	152.98	153.13	153.27	153.07	148.88 (Mar. 27)
	MEAN	149.73	149.40	149.13	149.03	149.40	150.72	152.12	152.78	153.09	153.28	153.39	153.30	151.28
	LOW	149.93	149.52	149.28	149.15	149.91	151.51	152.42	153.00	153.22	153.40	153.53	153.49	153.53 (Nov.18)
2001	HIGH	152.75	152.27	151.56	151.58	151.51	151.86	152.31	152.70	153.42	153.73	153.93	154.00	151.51 (May 2)
	MEAN	153.05	152.59	151.88	151.58	151.65	152.12	152.49	153.02	153.66	153.84	153.97	154.17	152.84
	LOW	153.25	152.83	152.25	151.66	151.87	152.40	152.69	153.41	153.79	153.98	154.05	154.29	154.29 (Dec. 22)
2002	HIGH	153.75	153.31	152.77	152.55	152.55	153.05	154.70	156.04	157.03	157.50	157.03	156.67	152.55 (Apr. 29)
	MEAN	153.94	153.52	153.05	152.70	152.75	153.75	155.41	156.57	157.36	157.61	157.45	156.90	154.93
	LOW	154.22	153.78	153.40	152.83	153.02	154.63	156.02	157.01	157.60	157.68	157.66	157.11	157.68 (Oct. 9)
2003	HIGH	156.31	--	154.84	154.29	153.86	153.56	153.31	153.01	152.82	152.79	152.79	152.82	152.79 (Oct.29)
	MEAN	156.50	--	--	154.57	154.13	153.71	153.41	153.15	152.89	152.90	152.90	152.92	153.71
	LOW	156.63	--	154.94	154.93	154.34	153.93	153.62	153.36	153.05	153.00	152.99	153.02	156.63 (Jan. 7)
2004	HIGH	152.38	151.84	151.55	151.50	151.85	--	--	--	--	--	--	--	151.50 (Apr. 8)
	MEAN	152.66	152.15	151.73	151.66	--	--	--	--	--	--	--	--	--
	LOW	152.90	152.45	151.87	151.92	152.35	--	--	--	--	--	--	--	152.90 (Jan. 1)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

HAMPTON COUNTY

WELL NUMBER: HAM-50

LATITUDE: 32° 40' 48"

GRID NUMBER: 33EE-v1

LONGITUDE: 81° 11' 20"

LOCATION: U.S. Highway 601, Furman.

AQUIFER: Tertiary sand.

WELL CHARACTERISTICS: 8-inch diameter unused public supply well. Depth: 968 ft. Open interval unknown.

DATUM: Land surface is 115 ft (map estimate) above National Geodetic Vertical Datum of 1929.

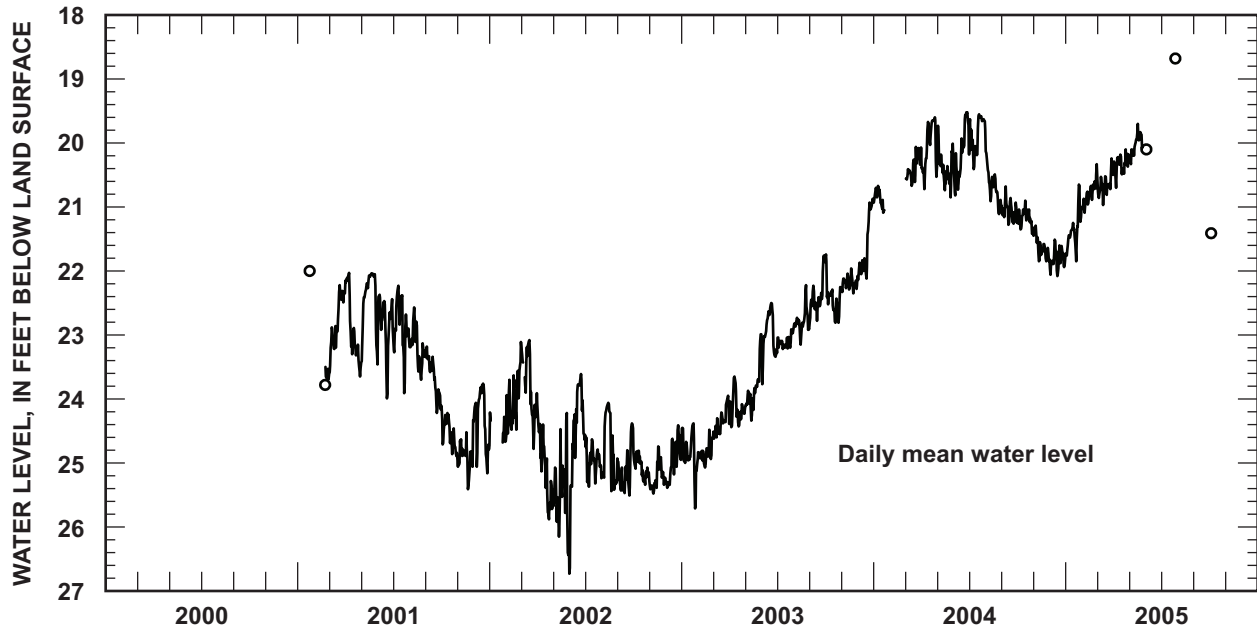
MEASURING POINT: Top of 4-inch casing, 2.41 ft above land surface datum.

PERIOD OF RECORD: February 2001 to current year.

EXTREMES: Highest water level: 18.68 ft below land surface, July 27, 2005.

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	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	23.50	22.22	22.03	22.04	22.37	22.23	22.57	23.18	24.13	24.33	23.76	22.03 (Apr. 8)
	MEAN	--	23.61	22.81	22.89	22.41	22.82	22.85	23.19	23.67	24.54	24.90	24.31	23.44
	LOW	--	23.70	23.61	23.65	23.43	23.99	23.91	23.70	24.22	24.93	25.41	25.16	25.41 (Nov.20)
2002	HIGH	24.21	23.42	23.08	24.09	24.22	23.61	24.56	24.06	24.38	24.81	24.74	24.41	23.08 (Mar. 17)
	MEAN	--	24.07	23.74	25.06	25.47	24.51	24.95	24.76	25.10	25.06	25.22	24.98	24.78
	LOW	24.68	24.56	24.78	25.88	26.44	26.73	25.37	25.44	25.51	25.34	25.48	25.39	26.73 (Jun.1)
2003	HIGH	24.38	24.48	23.95	23.65	22.99	22.50	22.91	22.22	21.76	21.74	21.96	20.87	20.87 (Dec. 30)
	MEAN	24.85	24.85	24.36	24.15	23.88	22.97	23.11	22.79	22.39	22.42	22.19	21.63	23.30
	LOW	25.71	25.07	24.62	24.44	24.34	23.77	23.28	23.15	22.80	22.81	22.35	22.14	25.71 (Jan. 26)
2004	HIGH	20.67	--	20.06	19.60	19.73	19.52	19.55	20.13	20.68	20.90	21.29	21.51	19.52 (Jun. 25)
	MEAN	--	--	20.38	20.05	20.37	20.16	19.85	20.68	21.06	21.18	21.64	21.82	20.72
	LOW	21.09	--	20.67	20.72	20.85	20.82	20.41	21.11	21.28	21.45	21.85	22.08	22.08 (Dec. 15)
2005	HIGH	20.65	20.33	20.24	20.10	19.70	--	--	--	--	--	--	--	19.70 (May 17)
	MEAN	21.35	20.79	20.65	20.34	20.03	--	--	--	--	--	--	--	--
	LOW	21.85	21.09	20.97	20.70	20.33	--	--	--	--	--	--	--	21.85 (Jan. 20)

ORANGEBURG COUNTY

WELL NUMBER: ORG-430

LATITUDE: 33° 30' 29"

GRID NUMBER: 29U-v2

LONGITUDE: 80° 51' 54"

LOCATION: Clark Middle School, Orangeburg.

AQUIFER: Tertiary sand.

WELL CHARACTERISTICS: 2-inch diameter observation well. Depth: 275 ft. Screened from 205 to 265 ft.

DATUM: Land surface is 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

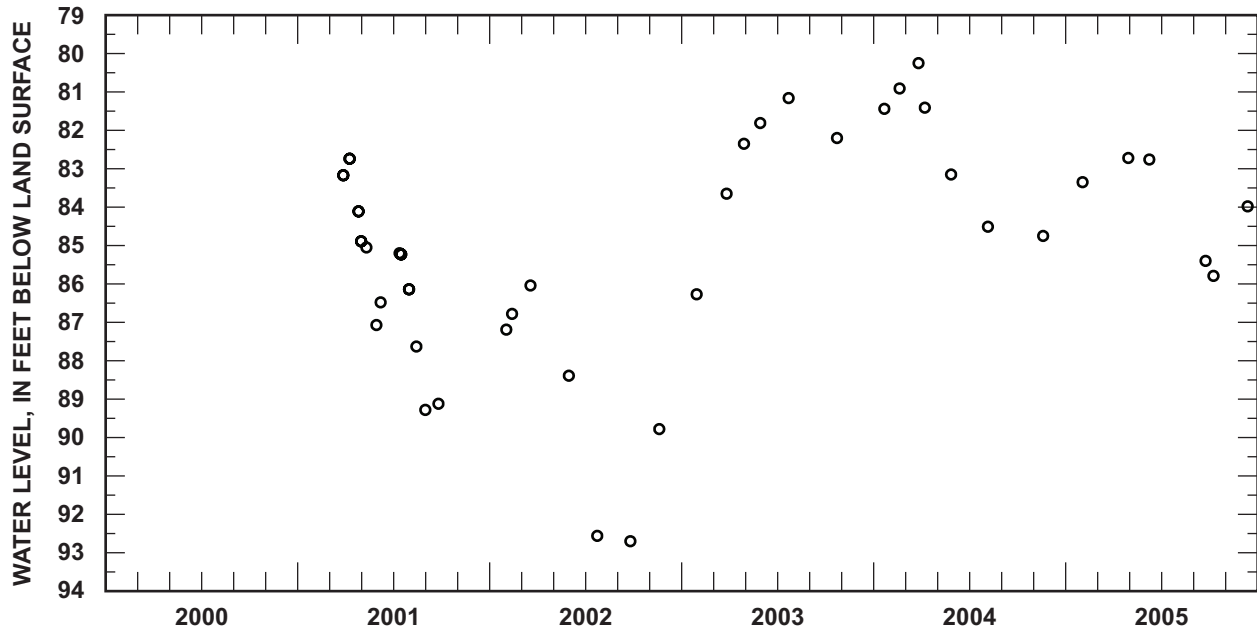
MEASURING POINT: Top of 2-inch casing, 3.25 ft above land surface datum.

PERIOD OF RECORD: March 2001 to current year.

EXTREMES: Highest water level: 80.25 ft below land surface, March 26, 2004.

Lowest water level: 92.72 ft below land surface, August 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
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--

Floridan Aquifer

The Floridan aquifer in South Carolina is the northernmost 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 almost ubiquitously yield adequate water for domestic use, small public-supply systems, and light industry, and, locally, they can yield 1 to 3 million gallons per day 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, 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 inlandmost 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.

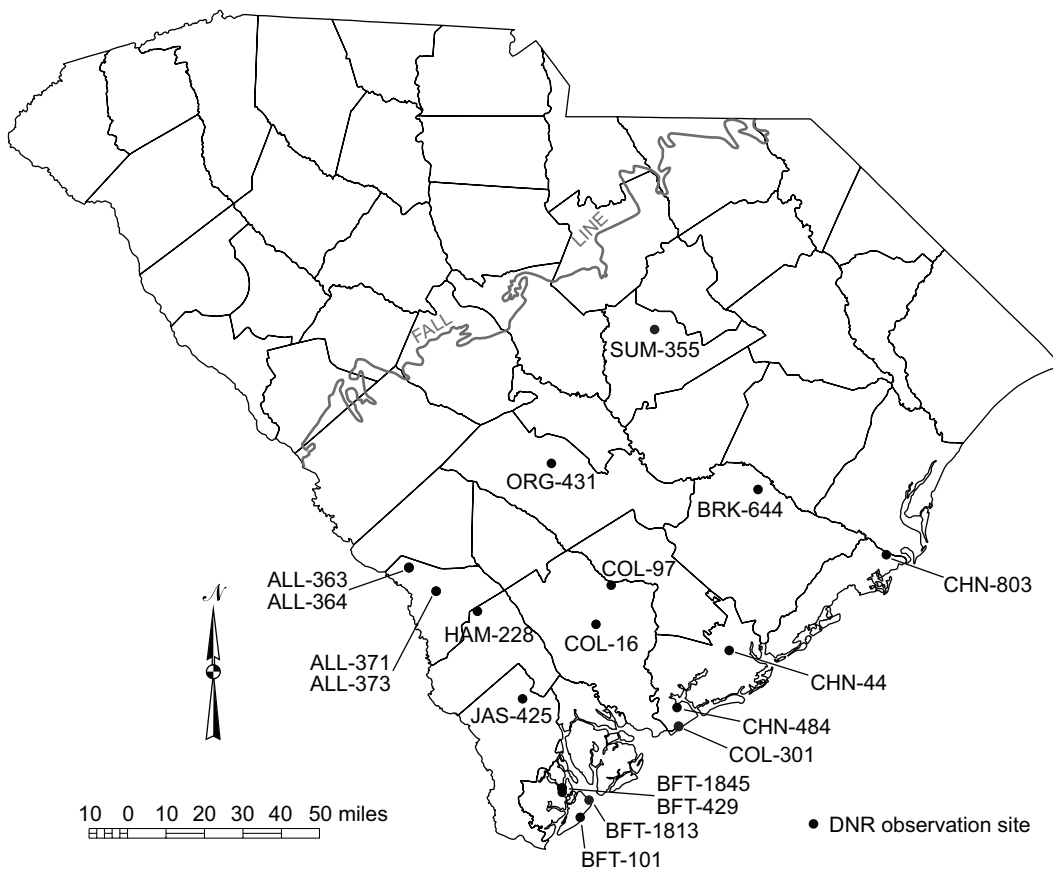


Figure 13. Locations of Floridan aquifer observation wells.

ALLENDALE COUNTY

WELL NUMBER: ALL-363

LATITUDE: 33° 06' 49"

GRID NUMBER: 37Z-t4

LONGITUDE: 81° 30' 22"

LOCATION: Rolling Hills Road, Millet.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 105 ft. Screened from 90 to 100 ft.

DATUM: Land surface is 246.13 ft above National Geodetic Vertical Datum of 1929.

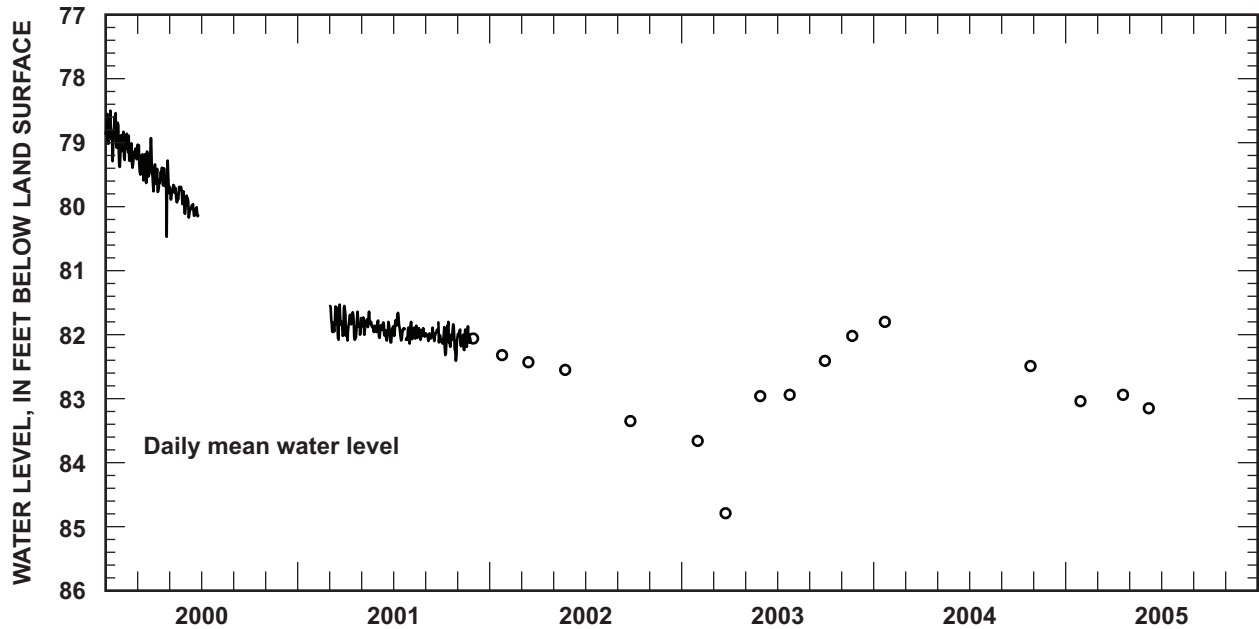
MEASURING POINT: Top of casing, 2.96 ft above land surface datum.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 68.34 ft below land surface, June 14, 1998.

Lowest water level: 84.79 ft below land surface, March 24, 2003.

REMARKS: 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
2000	HIGH	78.50	78.83	78.93	79.28	79.66	79.83	--	--	--	--	--	--	78.50 (Jan. 10)
	MEAN	78.88	79.13	79.32	79.59	79.81	80.08	--	--	--	--	--	--	79.46
	LOW	79.38	79.39	79.63	80.47	80.11	80.17	--	--	--	--	--	--	80.47 (Apr. 26)
2001	HIGH	--	--	81.45	81.64	81.64	81.78	80.88	81.80	81.61	81.80	--	--	81.45 (Mar. 2)
	MEAN	--	--	81.77	81.86	81.84	81.94	81.87	81.98	82.00	82.08	--	--	--
	LOW	--	--	82.08	82.09	82.00	82.12	82.09	82.14	82.12	82.41	--	--	82.41 (Oct.28)
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-364

LATITUDE: 33° 06' 49"

GRID NUMBER: 37Z-t5

LONGITUDE: 81° 30' 22"

LOCATION: Rolling Hills Road, Millet.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 225 ft. Screened from 210 to 220 ft.

DATUM: Land surface is 245.17 ft above National Geodetic Vertical Datum of 1929.

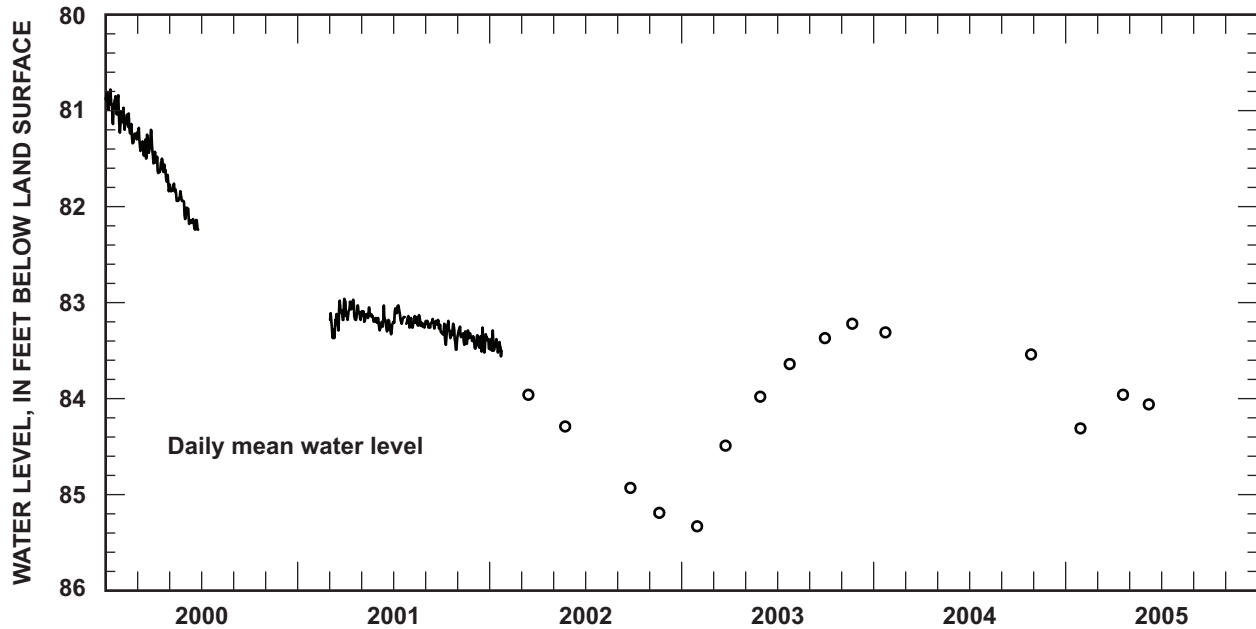
MEASURING POINT: Top of casing, 3.22 ft above land surface datum.

PERIOD OF RECORD: November 1995 to current year.

EXTREMES: Highest water level: 71.90 ft below land surface, May 8, 1998.

Lowest water level: 85.33 ft below land surface, January 30, 2003.

REMARKS: 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
2000	HIGH	80.78	80.97	81.18	81.43	81.76	82.01	--	--	--	--	--	--	80.78 (Jan. 10)
	MEAN	80.95	81.18	81.35	81.60	81.89	82.15	--	--	--	--	--	--	--
	LOW	81.23	81.34	81.50	81.84	82.13	82.24	--	--	--	--	--	--	82.24 (Jun. 19)
2001	HIGH	--	--	82.96	82.97	83.05	83.03	83.03	83.13	83.17	83.19	83.25	83.26	82.96 (Mar. 30)
	MEAN	--	--	83.17	83.09	83.14	83.23	83.14	83.21	83.23	83.32	83.34	83.41	83.23
	LOW	--	--	83.37	83.18	83.21	83.33	83.22	83.26	83.31	83.49	83.44	83.52	83.52 (Dec. 21)
2002	HIGH	83.29	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	83.45	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	83.56	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-371

LATITUDE: 33° 01' 29"

GRID NUMBER: 35AA-q4

LONGITUDE: 81° 23' 05"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 217 ft. Screened from 192 to 212 ft.

DATUM: Land surface is 282.23 ft above National Geodetic Vertical Datum of 1929.

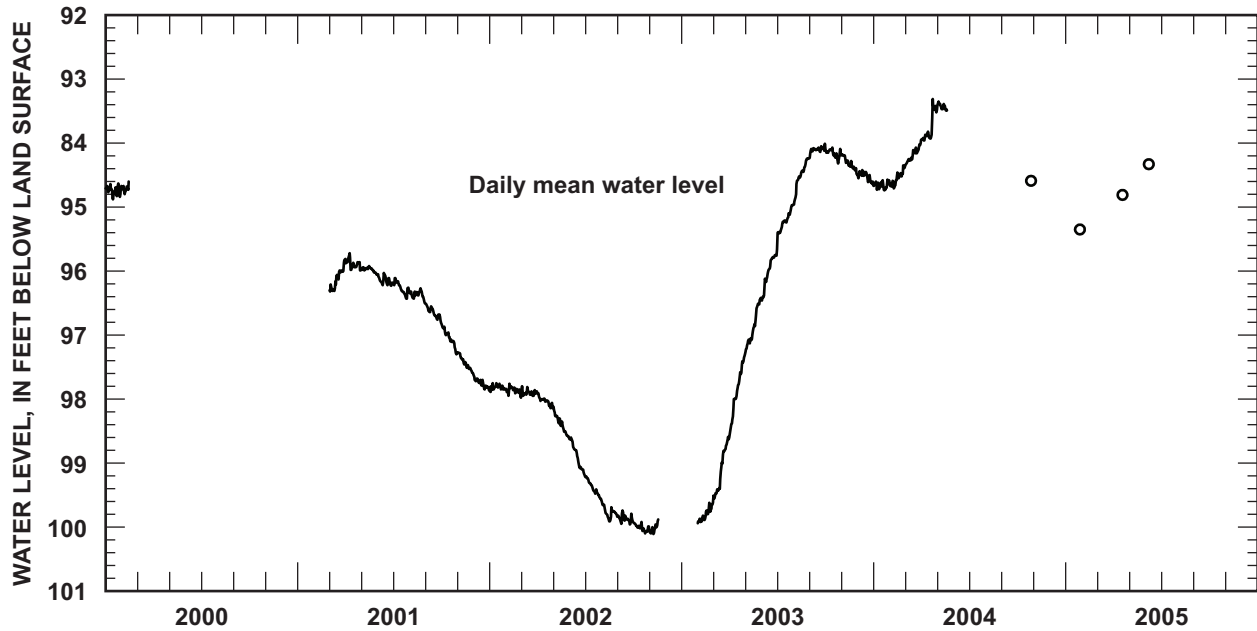
MEASURING POINT: Top of casing, 3.00 ft above land surface datum.

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: 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
2000	HIGH	94.63	94.60	--	--	--	--	--	--	--	--	--	--	94.60 (Feb. 14)
	MEAN	94.74	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	94.88	94.80	--	--	--	--	--	--	--	--	--	--	94.88 (Jan. 15)
2001	HIGH	--	--	95.82	95.72	95.92	96.03	96.11	96.27	96.51	96.83	97.27	97.63	95.72 (Apr. 9)
	MEAN	--	--	--	95.88	95.98	96.15	96.26	96.37	96.65	97.05	97.44	97.75	--
	LOW	--	--	96.32	95.99	96.06	96.23	96.43	96.51	96.81	97.30	97.60	97.86	97.86 (Dec. 30)
2002	HIGH	97.75	97.76	97.80	97.90	98.11	98.60	99.21	99.58	99.74	99.92	99.88	--	97.75 (Jan. 6)
	MEAN	97.82	97.86	97.90	98.03	98.39	98.89	99.38	99.77	99.87	100.01	--	--	98.90
	LOW	97.89	97.95	97.98	98.14	98.60	99.19	99.56	99.91	99.96	100.10	100.11	--	100.11 (Nov. 8)
2003	HIGH	99.35	99.05	98.02	96.76	95.85	95.18	94.53	94.24	94.05	94.07	94.18	94.42	94.05 (Sep. 30)
	MEAN	--	99.24	98.55	97.34	96.31	95.45	94.78	94.51	94.10	94.16	94.32	94.52	95.75
	LOW	99.37	99.35	99.05	98.03	96.73	95.89	95.09	94.96	94.23	94.32	94.49	94.66	99.37 (Jan. 31)
2004	HIGH	94.57	94.35	93.95	93.94	--	--	--	--	--	--	--	--	93.94 (Apr. 22)
	MEAN	94.66	94.55	94.18	--	--	--	--	--	--	--	--	--	--
	LOW	94.74	94.71	94.35	93.94	--	--	--	--	--	--	--	--	94.74 (Jan. 21)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

ALLENDALE COUNTY

WELL NUMBER: ALL-373

LATITUDE: 33° 01' 30"

GRID NUMBER: 35AA-q6

LONGITUDE: 81° 23' 03"

LOCATION: Appleton fire tower, Allendale.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 372 ft. Screened from 327 to 367 ft.

DATUM: Land surface is 279.67 ft above National Geodetic Vertical Datum of 1929.

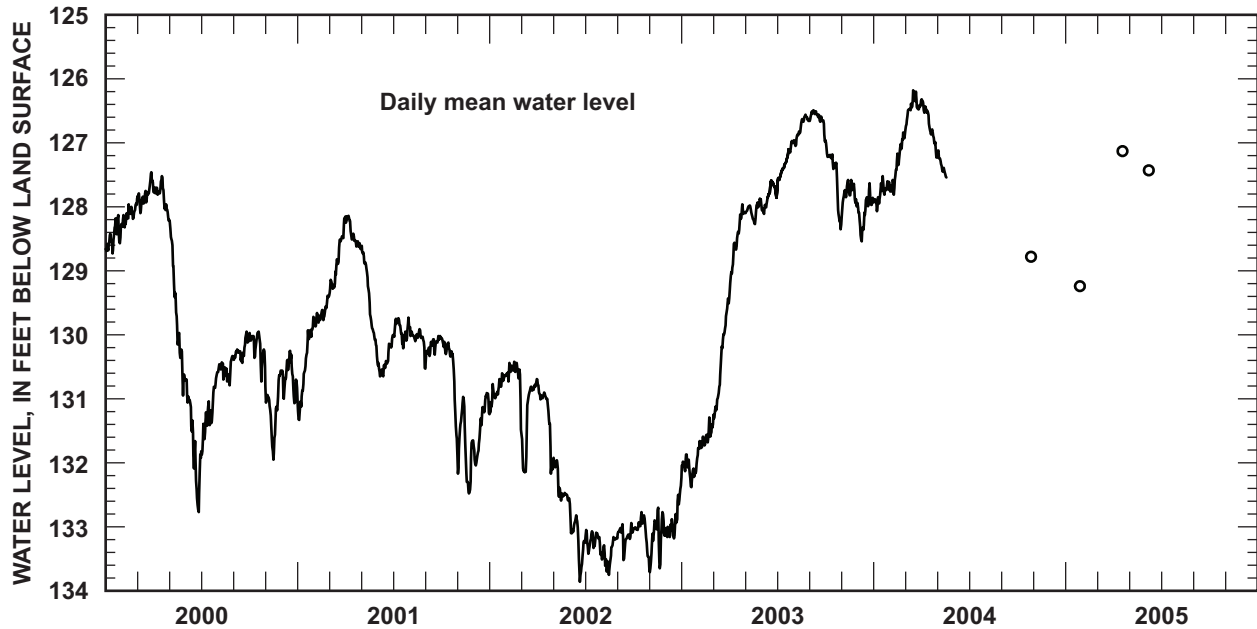
MEASURING POINT: Top of casing, 2.74 ft above land surface datum.

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: 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	
2000	HIGH	128.13	127.95	127.46	127.52	128.20	130.69	130.59	130.33	129.95	129.95	130.56	130.25	127.46 (Mar. 28)
	MEAN	128.47	128.13	127.80	127.82	129.65	131.64	131.23	130.54	130.23	130.20	131.15	130.66	129.80
	LOW	128.73	128.32	128.10	128.22	130.95	132.77	131.87	130.79	130.44	130.81	131.95	131.07	132.77 (Jun. 26)
2001	HIGH	129.72	129.39	128.17	128.14	128.61	130.01	129.73	129.88	130.02	130.05	130.97	130.91	128.14 (Apr. 7)
	MEAN	130.46	129.67	128.86	128.42	129.41	130.41	129.93	130.05	130.17	130.48	131.77	131.42	130.09
	LOW	131.33	129.87	129.39	128.66	130.33	130.65	130.21	130.53	130.37	131.88	132.48	132.04	132.48 (Nov. 22)
2002	HIGH	130.60	130.42	130.69	130.70	131.92	132.57	133.05	133.16	132.94	132.77	132.70	132.23	130.42 (Feb. 16)
	MEAN	130.85	130.57	131.26	131.17	132.34	133.17	133.22	133.40	133.14	133.06	133.14	132.89	132.30
	LOW	131.22	131.01	132.15	132.17	132.59	133.86	133.44	133.75	133.52	133.67	133.71	133.18	133.86 (Jun. 21)
2003	HIGH	131.87	131.29	129.43	127.96	127.87	127.59	126.97	126.56	126.49	126.96	127.58	127.63	126.49 (Sep. 8)
	MEAN	132.08	131.62	130.46	128.55	128.05	127.84	127.32	126.77	126.61	127.48	127.80	128.06	128.55
	LOW	132.38	131.78	131.40	129.43	128.27	128.11	127.78	127.05	126.98	128.35	128.15	128.54	132.38 (Jan. 19)
2004	HIGH	127.52	126.84	126.18	126.32	--	--	--	--	--	--	--	--	126.18 (Mar. 16)
	MEAN	127.79	127.33	126.44	--	--	--	--	--	--	--	--	--	--
	LOW	128.07	127.81	126.81	126.32	--	--	--	--	--	--	--	--	128.07 (Jan. 7)
2005	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	--

BEAUFORT COUNTY

WELL NUMBER: BFT-101

GRID NUMBER: 27KK-y1

LOCATION: U.S. Highway 278, Hilton Head Island.

AQUIFER: Upper Floridan.

WELL CHARACTERISTICS: 8-inch diameter observation well. Depth: 442 ft. Open hole below 129 ft.

DATUM: Land surface is 14.31 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Top of 1.5-inch casing, 1.80 ft above land surface datum.

PERIOD OF RECORD: 1955 to current year.

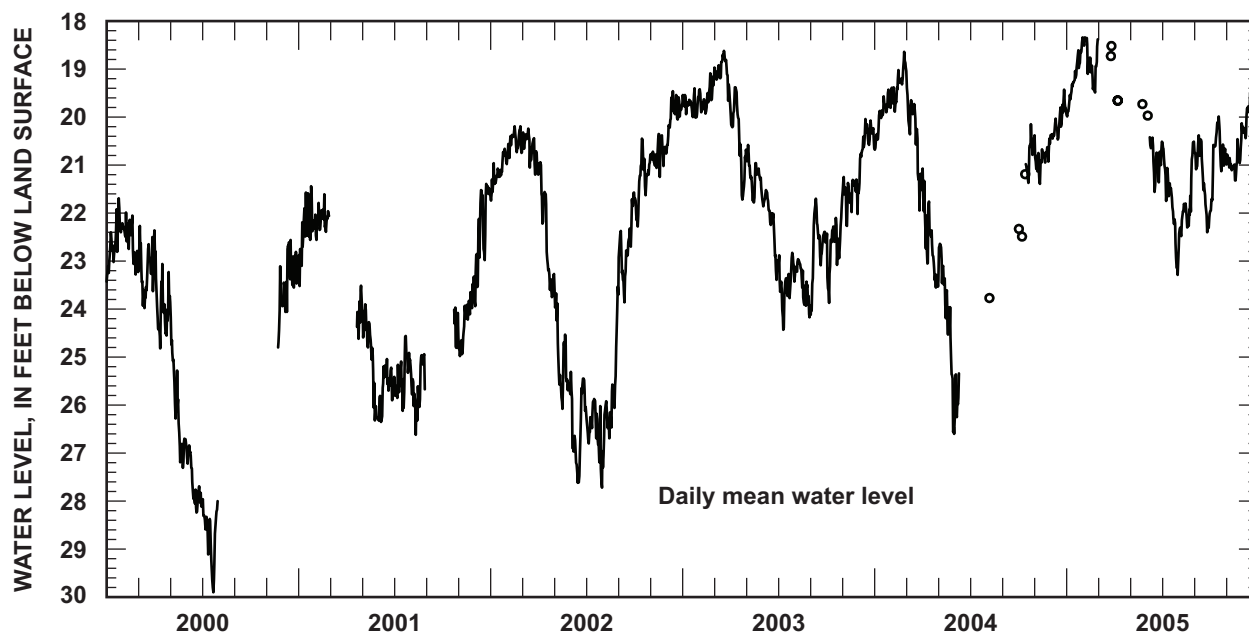
EXTREMES: Highest water level: 12.29 ft below land surface, July 5, 1961.

Lowest water level: 30.42 ft below land surface, July 12, 1990.

REMARKS: Monitored continuously by USGS until September 2001.

LATITUDE: 32° 10' 05"

LONGITUDE: 80° 44' 26"



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	21.69	21.99	22.27	22.36	23.85	26.84	27.96	--	--	--	23.11	22.56	21.69 (Jan. 24)
	MEAN	22.60	22.55	23.19	23.90	26.06	27.62	28.68	--	--	--	24.07	23.29	--
	LOW	23.43	23.28	23.98	24.82	27.31	28.24	29.90	--	--	--	24.80	24.06	29.90 (Jul. 22)
2001	HIGH	21.44	21.61	--	23.51	23.90	25.04	24.56	24.94	--	23.23	23.32	21.39	21.39 (Dec. 23)
	MEAN	22.37	22.12	--	24.06	24.83	25.61	25.37	25.59	--	24.32	24.20	22.28	--
	LOW	23.52	22.56	--	24.62	26.32	26.35	26.12	26.62	--	24.81	24.98	23.94	26.62 (Aug. 11)
2002	HIGH	20.66	20.19	20.24	20.94	23.27	25.31	25.87	23.53	21.57	20.45	20.35	19.46	19.46 (Dec. 13)
	MEAN	21.14	20.51	20.62	22.36	25.00	26.46	26.50	25.87	22.69	21.32	20.75	19.94	--
	LOW	21.74	20.85	21.20	23.75	26.08	27.62	27.72	27.30	23.86	22.28	21.25	20.73	27.72 (Jul. 31)
2003	HIGH	19.40	19.09	18.62	19.38	20.58	21.52	22.83	22.96	21.70	21.67	21.25	20.04	18.62 (Mar. 20)
	MEAN	19.74	19.60	19.05	20.39	21.19	22.14	23.46	23.45	22.65	22.66	21.57	20.54	21.37
	LOW	20.01	19.93	19.66	21.72	21.78	23.39	24.43	24.17	24.12	23.87	22.27	21.59	24.43 (Jul. 11)
2004	HIGH	19.43	18.64	19.04	21.07	22.64	25.09	--	--	--	20.15	20.38	19.43	18.64 (Feb. 26)
	MEAN	19.97	19.30	20.34	22.60	24.07	--	--	--	--	--	20.85	20.10	--
	LOW	20.68	19.89	21.95	23.55	26.60	26.29	--	--	--	21.37	21.39	20.47	26.60 (May 31)
2005	HIGH	18.34	18.34	--	--	--	20.42	20.53	20.51	20.38	19.99	20.13	19.18	18.34 (Jan. 30)
	MEAN	19.14	18.84	--	--	--	--	21.75	21.80	21.32	20.77	20.88	19.79	--
	LOW	19.99	19.49	--	--	--	21.56	23.29	22.70	22.40	21.95	21.32	20.44	23.29 (Jul. 30)

BEAUFORT COUNTY

WELL NUMBER: BFT-429

LATITUDE: 32° 15' 51"

GRID NUMBER: 28JJ-y1

LONGITUDE: 80° 49' 12"

LOCATION: Victoria Bluff Wildlife Management Area, Bluffton.

AQUIFER: Upper Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 300 ft. Open hole below 119 ft.

DATUM: Land surface is 21.56 ft above National Geodetic Vertical Datum of 1929.

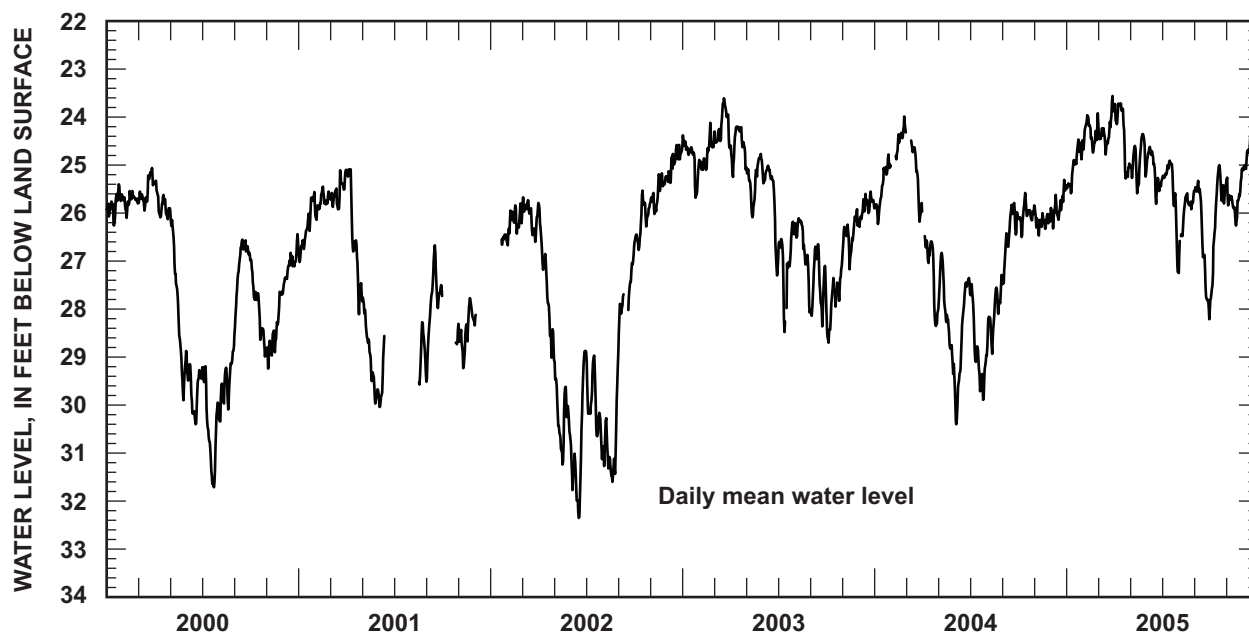
MEASURING POINT: Top of plywood platform, 1.85 ft above land surface datum.

PERIOD OF RECORD: August 1970 to current year.

EXTREMES: Highest water level: 21.71 ft below land surface, September 10, 1971.

Lowest water level: 32.35 ft below land surface, June 17, 2002.

REMARKS: Monitored continuously by USGS until September 2001.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	25.40	25.54	25.06	25.33	25.95	28.96	29.19	28.56	26.55	26.97	27.64	26.44	25.06 (Mar. 27)
	MEAN	25.82	25.74	25.53	25.79	27.95	29.65	30.47	29.54	27.01	28.04	28.45	27.09	27.59
	LOW	26.26	26.10	25.95	26.13	29.90	30.40	31.71	30.34	28.38	28.99	29.24	27.68	31.71 (Jul. 23)
2001	HIGH	25.56	25.45	25.10	25.09	27.76	28.51	--	26.67	28.08	27.77	27.99	27.99	25.09 (Apr. 6)
	MEAN	26.29	25.77	25.56	26.44	28.93	--	--	27.78	28.52	--	28.15	--	--
	LOW	27.02	26.14	25.92	28.11	29.97	30.04	--	29.44	28.73	29.23	28.34	28.34	30.04 (Jun. 3)
2002	HIGH	26.45	25.80	25.67	25.79	29.06	28.87	28.89	28.88	26.70	25.53	25.17	24.55	24.55 (Dec. 31)
	MEAN	--	26.18	26.05	27.42	30.19	30.92	29.97	30.85	--	26.17	25.55	24.93	27.82
	LOW	26.66	26.67	26.60	29.01	31.24	32.35	31.13	31.60	28.52	26.77	26.02	25.37	32.35 (Jun. 17)
2003	HIGH	24.38	24.12	23.61	24.20	24.77	25.01	26.18	26.11	26.65	26.96	25.92	25.55	23.61 (Mar. 20)
	MEAN	24.85	24.79	24.19	24.54	25.29	25.57	26.94	26.68	27.42	27.80	26.43	25.89	25.87
	LOW	25.68	25.10	24.65	25.25	26.09	27.30	28.48	28.07	28.36	28.70	27.17	26.29	28.70 (Oct. 5)
2004	HIGH	24.78	23.99	24.49	26.57	26.83	27.35	27.48	27.29	25.79	25.58	25.98	25.31	23.99 (Feb. 26)
	MEAN	25.45	--	--	27.23	28.11	28.59	28.89	28.07	26.37	26.02	26.16	25.83	27.07
	LOW	26.23	24.88	26.18	28.35	29.35	30.40	29.89	28.97	27.46	26.50	26.47	26.32	30.40 (Jun. 4)
2005	HIGH	24.47	23.92	23.56	23.72	24.36	24.62	24.91	25.54	25.33	25.00	25.09	24.25	23.56 (Mar. 28)
	MEAN	24.99	24.33	24.27	24.34	24.91	25.10	25.49	25.99	26.62	25.93	25.71	24.65	25.19
	LOW	25.59	24.74	24.78	25.28	25.59	25.81	27.24	27.25	28.21	27.77	26.26	25.11	28.21 (Sep. 28)

BEAUFORT COUNTY

WELL NUMBER: BFT-1813

LATITUDE: 32° 13' 58"

GRID NUMBER: 27KK-j5

LONGITUDE: 80° 40' 38"

LOCATION: Fort Walker at Port Royal Plantation, Hilton Head Island.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 600 ft. Open hole below 276 ft.

DATUM: Land surface is 11.42 ft above National Geodetic Vertical Datum of 1929.

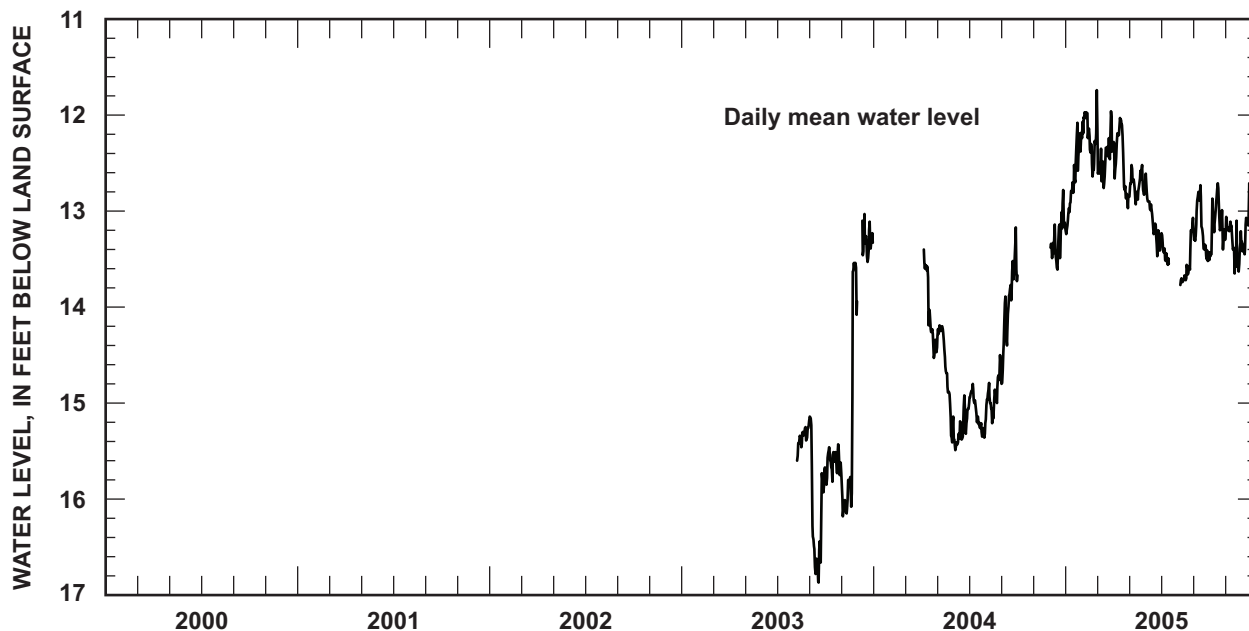
MEASURING POINT: Top of casing, 1.00 ft above land surface datum.

PERIOD OF RECORD: August 2003 to current year.

EXTREMES: Highest water level: 11.74 ft below land surface, February 28, 2005.

Lowest water level: 16.87 ft below land surface, September 18, 2003.

REMARKS: Water levels are influenced by tides.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2003	HIGH	--	--	--	--	--	--	15.18	15.14	15.43	13.54	13.03	13.03 (Dec. 14)	
	MEAN	--	--	--	--	--	--	--	16.17	15.62	15.26	--	--	
	LOW	--	--	--	--	--	--	15.60	16.87	15.85	16.18	13.53	16.87 (Sep. 18)	
2004	HIGH	--	--	--	13.40	14.19	14.92	14.80	14.50	13.17	--	--	12.78	12.78 (Dec. 26)
	MEAN	--	--	--	14.05	14.64	15.27	15.11	14.91	13.92	--	--	13.28	--
	LOW	--	--	--	14.53	15.41	15.49	15.36	15.21	14.79	--	--	13.61	15.49 (Jun. 4)
2005	HIGH	12.08	11.74	11.96	12.03	12.52	12.61	13.23	13.07	12.73	12.71	13.06	12.56	11.74 (Feb. 28)
	MEAN	12.65	12.22	12.43	12.46	12.73	13.10	--	13.55	13.20	13.12	13.32	13.01	12.89
	LOW	13.24	12.64	12.76	12.97	12.93	13.47	13.56	13.77	13.52	13.47	13.65	13.45	13.77 (Aug. 6)

BEAUFORT COUNTY

WELL NUMBER: BFT-1845

GRID NUMBER: 28JJ-p5

LOCATION: Waddell Mariculture Center, Bluffton.

AQUIFER: Middle Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 600 ft. Open hole below 255 ft.

DATUM: Land surface is 12.27 ft above National Geodetic Vertical Datum of 1929.

MEASURING POINT: Top of casing, 1.48 ft above land surface datum.

PERIOD OF RECORD: March 1994 to current year.

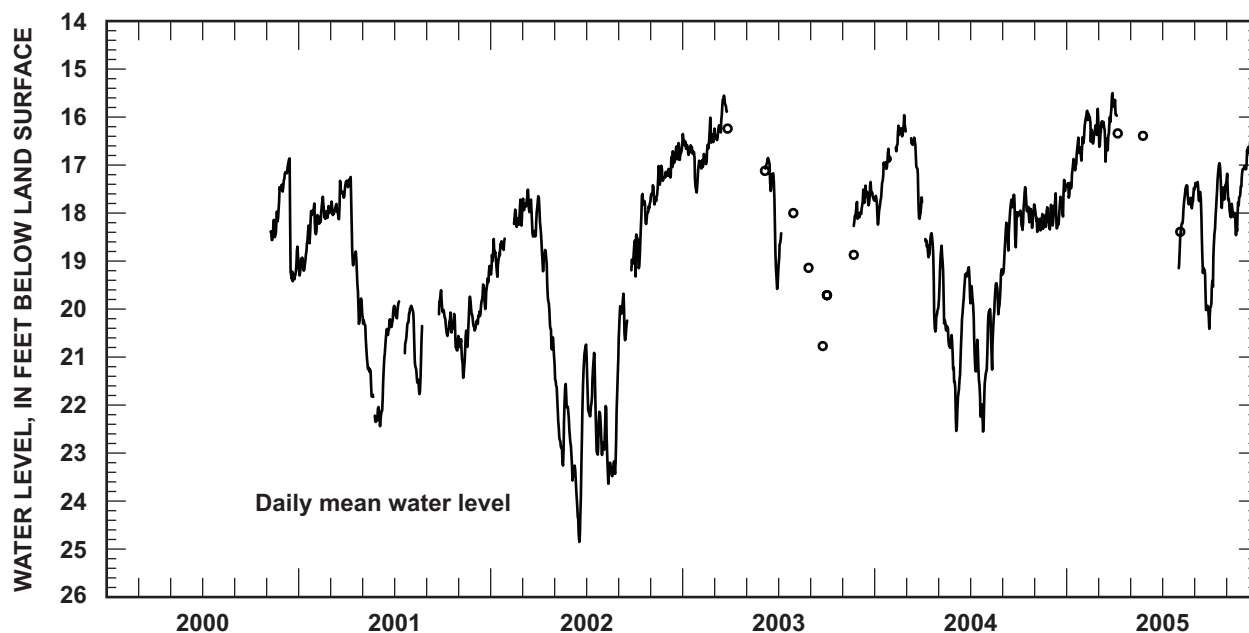
EXTREMES: Highest water level: 15.50 ft below land surface, March 28, 2005.

Lowest water level: 24.85 ft below land surface, June 18, 2002.

REMARKS: Water levels are influenced by tides.

LATITUDE: 32° 16' 50"

LONGITUDE: 80° 49' 18"



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	17.41	16.86	16.86 (Dec. 14)	
	MEAN	--	--	--	--	--	--	--	--	--	18.07	18.23	--	
	LOW	--	--	--	--	--	--	--	--	--	18.56	19.42	19.42 (Dec. 20)	
2001	HIGH	17.80	17.66	17.33	17.25	20.09	19.96	19.84	19.93	19.61	20.02	19.74	19.10	17.25 (Apr. 9)
	MEAN	18.62	18.06	17.78	18.69	21.32	21.01	20.24	20.71	20.15	20.39	20.56	19.83	--
	LOW	19.30	18.44	18.13	20.31	22.35	22.44	21.05	21.77	20.26	20.86	21.43	20.45	22.44 (Jun. 4)
2002	HIGH	18.50	17.72	17.51	17.65	20.98	20.77	20.74	21.03	18.72	17.60	17.01	16.50	16.50 (Dec. 31)
	MEAN	18.85	18.11	17.99	19.33	22.20	23.10	22.03	22.87	19.89	18.24	17.41	16.90	19.89
	LOW	19.33	18.29	18.49	20.84	23.26	24.85	23.04	23.64	20.65	19.32	17.82	17.26	24.85 (Jun. 18)
2003	HIGH	16.35	16.01	15.55	--	--	16.85	18.15	--	--	17.77	17.35	15.55	(Mar. 20)
	MEAN	16.82	16.72	16.08	--	--	17.63	--	--	--	--	17.73	--	--
	LOW	17.57	17.07	16.48	--	--	19.58	19.31	--	--	18.27	18.09	19.58	(Jun. 29)
2004	HIGH	16.66	15.96	16.43	18.42	18.68	19.13	19.52	19.17	17.62	17.46	17.88	17.31	15.96 (Feb. 26)
	MEAN	17.37	--	--	19.18	20.16	20.50	21.14	20.02	18.26	17.97	18.15	17.86	19.06
	LOW	18.24	16.71	18.12	20.47	21.52	22.54	22.55	21.26	19.26	18.35	18.39	18.32	22.55 (Jul. 25)
2005	HIGH	16.42	15.83	15.50	15.64	--	--	--	17.42	17.35	16.96	17.12	16.23	15.50 (Mar. 28)
	MEAN	17.00	16.20	16.20	--	--	--	--	17.91	18.73	17.97	17.84	16.65	--
	LOW	17.68	16.55	16.93	15.97	--	--	--	19.15	20.41	19.95	18.46	17.09	20.41 (Sep. 28)

BERKELEY COUNTY

WELL NUMBER: BRK-644

LATITUDE: 33° 24' 15"

GRID NUMBER: 18W-b2

LONGITUDE: 79° 56' 02"

LOCATION: St. Stephen Middle School, St. Stephen.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 93 ft. Screened from 53 to 93 ft.

DATUM: Land surface is 75 ft (map estimate) above National Geodetic Vertical Datum of 1929.

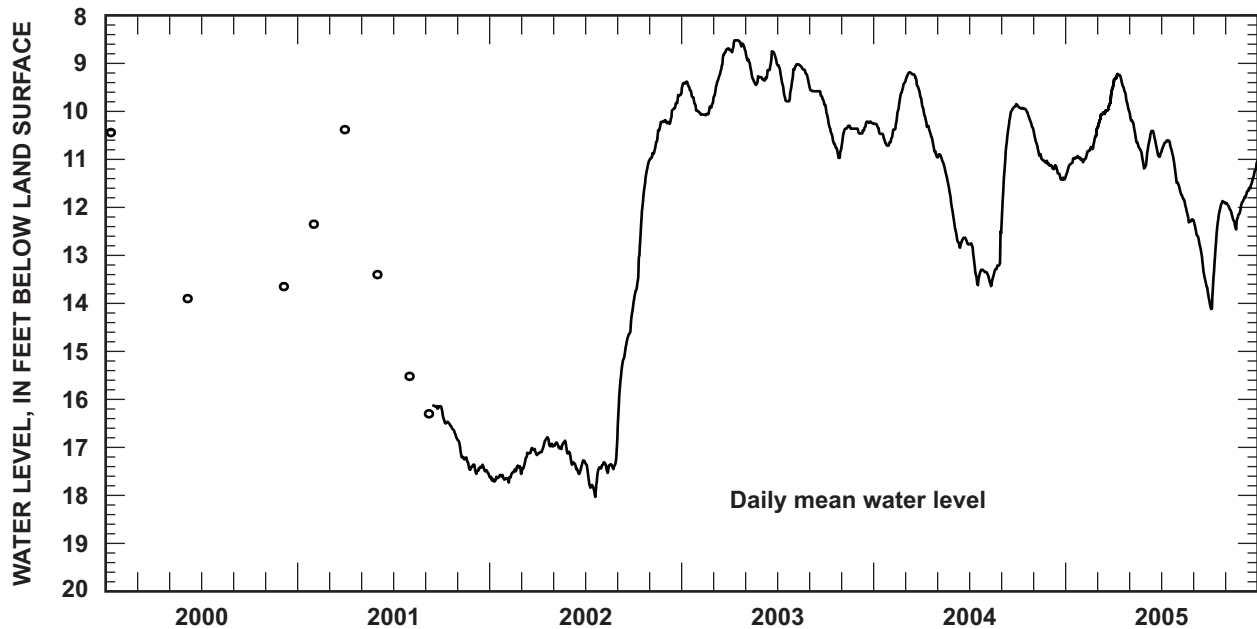
MEASURING POINT: Top of casing, 2.92 ft above land surface datum.

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	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	16.13	16.19	16.85	17.36	16.13 (Sep. 15)	
	MEAN	--	--	--	--	--	--	--	--	16.54	17.23	17.46	--	
	LOW	--	--	--	--	--	--	--	16.19	16.84	17.47	17.61	17.61 (Dec. 31)	
2002	HIGH	17.57	17.38	17.01	16.79	16.86	17.10	17.32	16.83	14.07	11.02	9.62	9.62 (Dec. 31)	
	MEAN	17.64	17.53	17.19	16.98	16.97	17.36	17.65	17.35	15.06	12.42	10.56	15.56	
	LOW	17.71	17.73	17.55	17.15	17.13	17.55	18.03	17.53	16.57	13.99	11.00	18.03 (Jul. 20)	
2003	HIGH	9.38	9.84	8.69	8.52	8.73	8.75	9.02	9.02	9.51	9.87	10.30	10.21	8.52 (Apr. 11)
	MEAN	9.61	10.02	9.14	8.61	9.18	9.09	9.47	9.13	9.63	10.54	10.38	10.32	9.59
	LOW	9.99	10.08	9.82	8.77	9.45	9.36	9.79	9.45	9.87	10.97	10.70	10.46	10.97 (Oct. 28)
2004	HIGH	10.26	9.40	9.19	9.80	10.90	12.24	12.75	12.36	9.85	9.89	10.47	11.12	9.19 (Mar. 8)
	MEAN	10.48	10.03	9.34	10.41	11.34	12.65	13.22	13.29	10.45	10.05	10.91	11.27	11.12
	LOW	10.71	10.64	9.72	10.95	12.17	12.84	13.62	13.64	12.09	10.41	11.13	11.42	13.64 (Aug. 11)
2005	HIGH	10.93	10.37	9.48	9.22	10.01	10.41	10.61	11.48	12.31	11.87	11.91	11.03	9.22 (Apr. 8)
	MEAN	11.05	10.79	9.97	9.47	10.61	10.71	10.86	11.97	13.08	12.69	12.13	11.54	11.24
	LOW	11.32	11.06	10.34	9.98	11.19	11.14	11.49	12.31	13.93	14.12	12.46	11.90	14.12 (Oct. 4)

CHARLESTON COUNTY

WELL NUMBER: CHN-44

LATITUDE: 32° 47' 45"

GRID NUMBER: 19DD-01

LONGITUDE: 80° 04' 14"

LOCATION: U.S. Department of Agriculture site, U.S. Highway 17.

AQUIFER: Floridan and Tertiary sand.

WELL CHARACTERISTICS: 8-inch diameter observation well. Depth: 434 ft. Open hole below 180 ft.

DATUM: Land surface is 9.4 ft above National Geodetic Vertical Datum of 1929.

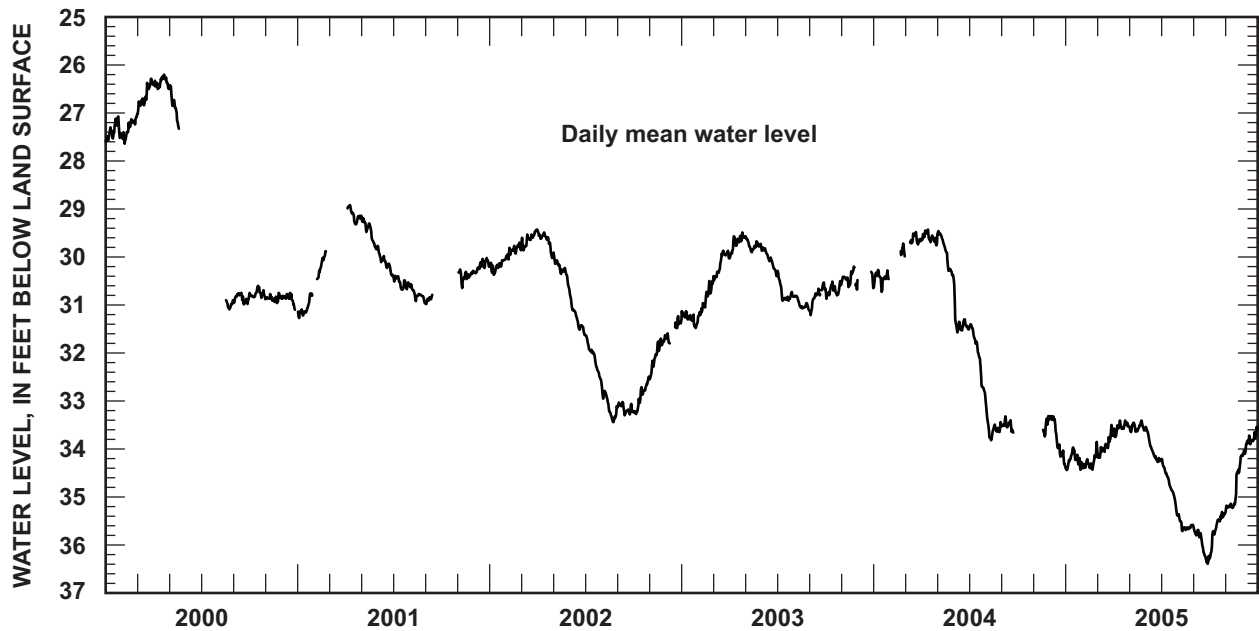
MEASURING POINT: Top of plywood platform, 0.65 ft above land surface datum.

PERIOD OF RECORD: October 1980 to current year.

EXTREMES: Highest water level: 13.54 ft below land surface, March 18, 1983.

Lowest water level: 36.39 ft below land surface, September 27, 2005.

REMARKS: Monitored continuously by USGS until November 2001.



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	27.07	27.08	26.29	26.20	26.42	29.38	--	30.90	30.75	30.60	30.75	30.75	26.20 (Apr. 21)
	MEAN	27.39	27.32	26.64	26.37	26.88	29.41	--	30.99	30.85	30.77	30.86	30.86	28.94
	LOW	27.59	27.64	27.02	26.50	27.87	29.42	--	31.09	30.99	30.88	30.96	31.10	31.10 (Dec. 26)
2001	HIGH	30.76	29.88	--	28.92	29.14	29.77	30.39	30.57	30.79	--	30.26	30.02	28.92 (Apr. 9)
	MEAN	31.06	30.17	--	29.12	29.47	30.11	30.53	30.78	30.88	--	30.39	30.19	30.27
	LOW	31.27	30.46	--	29.32	29.84	30.39	30.68	30.97	30.98	--	30.65	30.34	31.27 (Jan. 3)
2002	HIGH	30.03	29.70	29.43	29.43	29.91	30.67	31.63	32.61	33.02	32.49	31.63	31.23	29.43 (Mar. 31)
	MEAN	30.18	29.86	29.64	29.64	30.24	31.25	32.07	33.10	33.15	32.91	32.00	31.52	31.30
	LOW	30.37	30.05	29.86	30.02	30.64	31.63	32.56	33.44	33.30	33.27	32.55	31.80	33.44 (Aug. 23)
2003	HIGH	31.13	30.50	29.87	29.49	29.57	29.80	30.29	30.81	30.53	30.50	30.20	30.30	29.49 (Apr. 26)
	MEAN	31.28	30.91	30.15	29.71	29.75	30.03	30.74	30.96	30.81	30.69	30.45	--	30.50
	LOW	31.48	31.23	30.53	30.03	29.90	30.40	30.91	31.11	31.21	30.87	30.68	30.65	31.48 (Jan. 27)
2004	HIGH	30.27	29.72	29.48	29.43	29.46	30.47	31.40	33.02	33.32	--	33.31	33.31	29.43 (Apr. 13)
	MEAN	30.44	--	--	29.59	29.90	31.36	32.03	33.56	--	--	--	33.81	--
	LOW	30.73	29.99	29.74	29.76	30.38	31.57	32.89	33.82	33.66	--	33.74	34.40	34.40 (Dec. 31)
2005	HIGH	33.97	33.85	33.50	33.41	33.41	33.54	34.21	35.36	35.68	35.31	34.16	33.54	33.41 (Apr. 13)
	MEAN	34.23	34.29	33.94	33.56	33.55	34.00	34.72	35.59	35.99	35.62	34.91	33.86	34.52
	LOW	34.44	34.43	34.18	33.75	33.65	34.27	35.38	35.71	36.39	36.27	35.23	34.14	36.39 (Sep. 27)

CHARLESTON COUNTY

WELL NUMBER: CHN-484

LATITUDE: 32° 34' 55"

GRID NUMBER: 22GG-d1

LONGITUDE: 80° 18' 22"

LOCATION: Blue House Plantation, Edisto Island.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 12-inch diameter unused irrigation well. Depth: 560 ft. Open hole below 280 ft.

DATUM: Land surface is 14.45 ft above National Geodetic Vertical Datum of 1929.

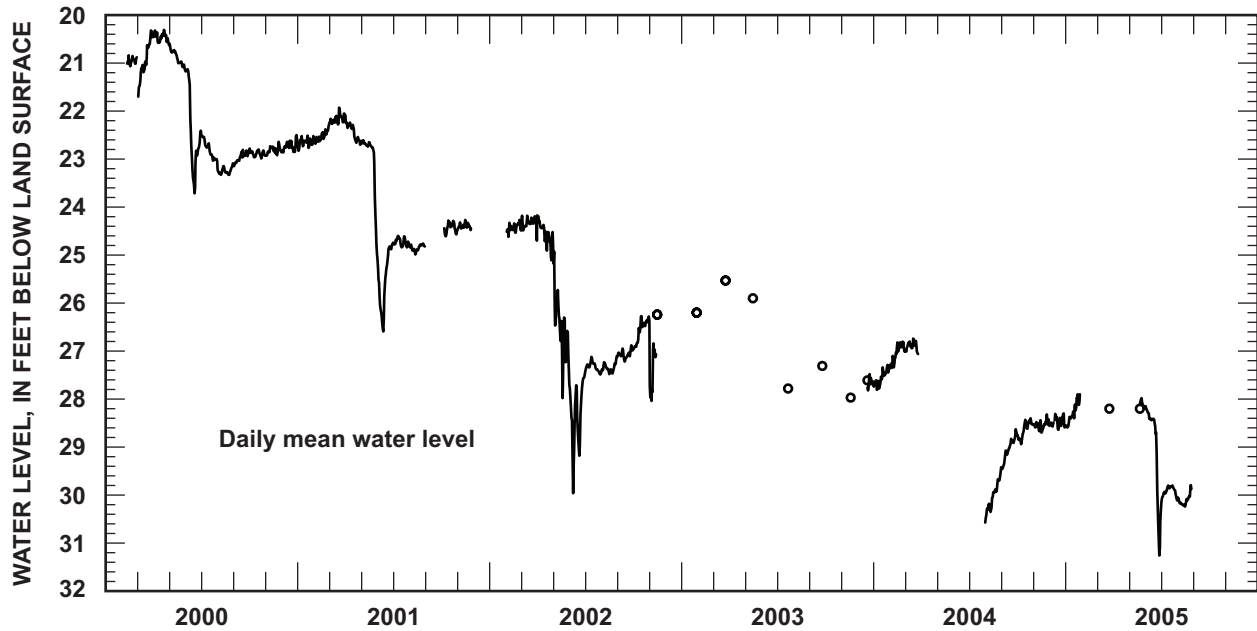
MEASURING POINT: Top of 6-inch casing extension, 2.07 ft above land surface datum.

PERIOD OF RECORD: February 2000 to current year.

EXTREMES: Highest water level: 20.31 ft below land surface, April 21, 2000.

Lowest water level: 31.26 ft below land surface, June 27, 2005.

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	
2000	HIGH	--	20.84	20.32	20.31	20.60	21.13	22.50	23.09	22.81	22.78	22.64	22.50	20.31 (Apr. 21)
	MEAN	--	20.96	20.95	20.46	20.89	22.42	22.80	23.24	22.96	22.88	22.82	22.73	22.10
	LOW	--	21.10	21.96	20.61	21.15	23.71	23.04	23.33	23.15	22.99	22.93	22.86	23.71 (Jun. 18)
2001	HIGH	22.51	22.32	21.93	22.10	22.61	24.76	24.60	24.76	24.68	24.28	24.27	--	21.93 (Mar. 20)
	MEAN	22.65	22.53	22.16	22.43	22.99	25.48	24.73	24.85	--	24.44	24.40	--	23.69
	LOW	22.83	22.68	22.28	22.70	24.96	26.59	24.84	24.99	24.93	24.61	24.48	--	26.59 (Jun. 8)
2002	HIGH	--	24.27	24.18	24.17	24.74	27.50	27.12	27.11	26.88	26.27	26.20	26.27	24.17 (Apr. 1)
	MEAN	--	24.42	24.34	24.54	26.47	28.31	27.33	27.34	27.06	26.57	26.96	26.67	--
	LOW	--	24.62	24.70	25.11	27.98	29.96	27.49	27.48	27.22	26.96	28.04	27.20	29.96 (Jun. 8)
2003	HIGH	--	--	--	--	--	--	--	--	--	--	27.48	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	27.82	--	
2004	HIGH	27.29	26.81	26.74	--	--	--	30.57	29.42	28.63	28.40	28.32	28.30	26.74 (Mar. 16)
	MEAN	27.55	27.04	--	--	--	--	--	29.99	29.01	28.63	28.54	28.48	--
	LOW	27.81	27.36	27.06	--	--	--	30.57	30.48	29.46	28.94	28.70	28.64	30.57 (Jul. 31)
2005	HIGH	27.90	--	--	--	27.98	28.15	29.80	29.79	--	--	--	--	27.90 (Jan. 23)
	MEAN	28.28	--	--	--	--	29.01	29.92	30.11	--	--	--	--	--
	LOW	28.59	--	--	--	28.20	31.26	30.15	30.24	--	--	--	--	31.26 (Jun. 27)

CHARLESTON COUNTY

WELL NUMBER: CHN-803

LATITUDE: 33° 09' 21"

GRID NUMBER: 11Z-b1

LONGITUDE: 79° 21' 50"

LOCATION: Santee Coastal Reserve, South Santee River.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 5-inch diameter observation well. Depth: 112 ft. Screened from 48 to 112 ft.

DATUM: Land surface is 10.89 ft above National Geodetic Vertical Datum of 1929.

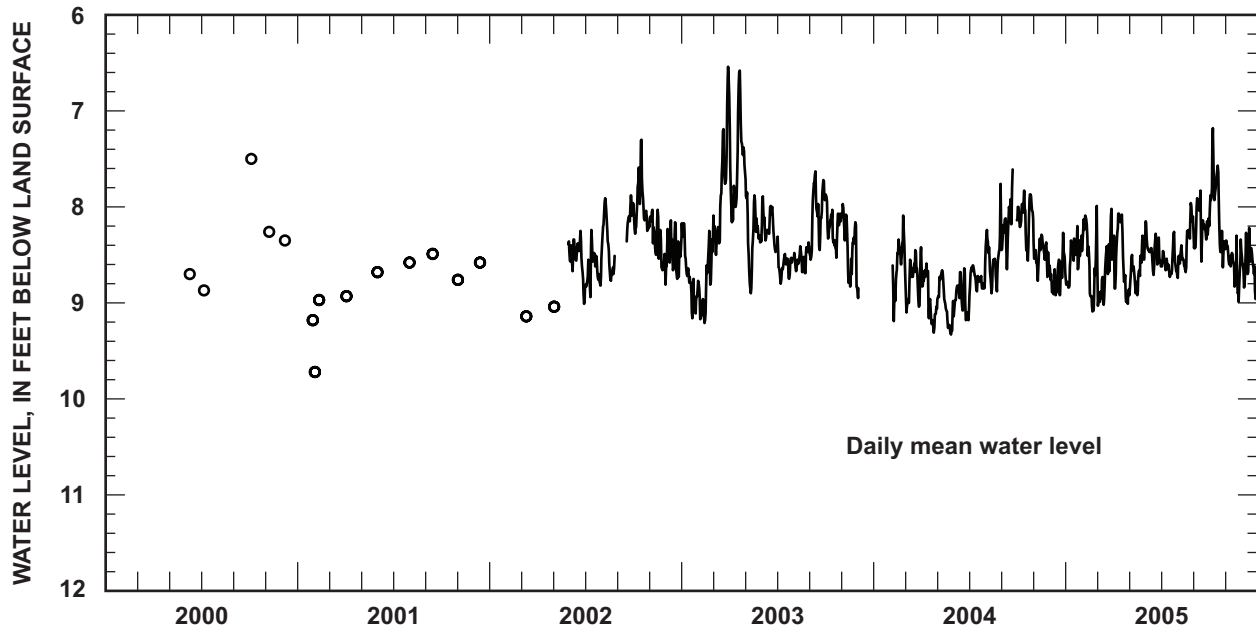
MEASURING POINT: Top of casing, 2.46 ft above land surface datum.

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. Influenced by tides. Hydraulic connection to the South Santee River.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2002	HIGH	--	--	--	8.36	8.25	8.24	7.91	7.88	7.30	8.03	8.14	7.30 (Oct. 16)	
	MEAN	--	--	--	--	8.53	8.65	8.41	8.09	7.99	8.35	8.48	--	
	LOW	--	--	--	8.39	9.01	8.94	8.77	8.36	8.28	8.66	8.81	9.01 (Jun. 29)	
2003	HIGH	8.17	8.25	6.54	6.58	7.63	7.89	8.31	8.37	7.63	7.87	7.97	8.85	6.54 (Mar. 30)
	MEAN	8.72	8.82	7.82	7.50	8.26	8.21	8.60	8.54	8.06	8.19	8.39	--	8.28
	LOW	9.16	9.21	8.50	8.16	8.90	8.47	8.80	8.69	8.55	8.83	8.95	9.21 (Feb. 13)	
2004	HIGH	--	8.09	8.42	8.59	8.66	8.64	8.57	7.76	7.61	7.83	8.29	8.27	7.61 (Sep. 21)
	MEAN	--	8.57	8.76	8.95	9.01	8.95	8.75	8.53	--	8.12	8.50	8.71	8.68
	LOW	--	9.19	9.10	9.31	9.33	9.18	8.92	8.90	8.65	8.56	8.77	8.92	9.33 (May 27)
2005	HIGH	8.20	7.99	8.02	8.07	8.30	8.15	8.26	7.96	7.83	7.18	8.30	8.22	7.18 (Oct. 7)
	MEAN	8.53	8.54	8.67	8.52	8.64	8.45	8.58	8.40	8.18	8.02	8.59	8.60	8.48
	LOW	8.84	9.09	9.03	9.01	8.92	8.71	8.73	8.74	8.57	8.63	8.99	8.96	9.09 (Feb. 20)

COLLETON COUNTY

WELL NUMBER: COL-16

LATITUDE: 32° 53' 54"

GRID NUMBER: 26CC-f1

LONGITUDE: 80° 39' 57"

LOCATION: Water plant, Walterboro.

AQUIFER: Floridan and Tertiary sand.

WELL CHARACTERISTICS: 6-inch diameter unused public supply well. Depth: 528 ft. Open hole below 68 ft.

DATUM: Land surface is 61.50 ft above National Geodetic Vertical Datum of 1929.

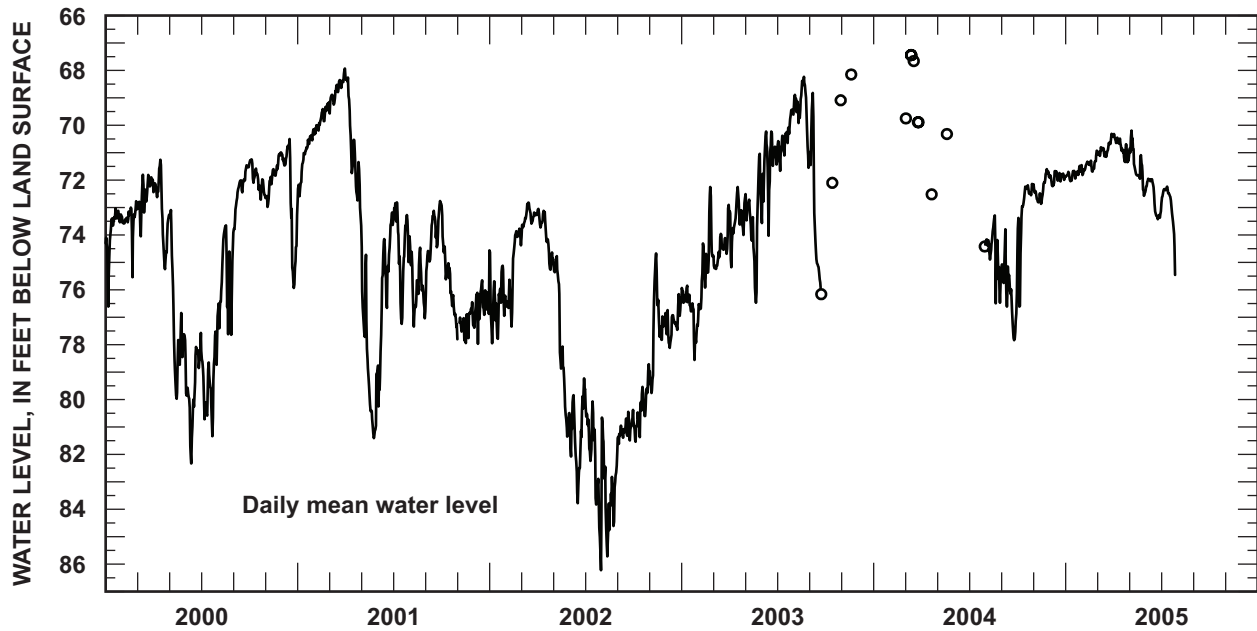
MEASURING POINT: Top of sanitary seal, 1.06 ft above land surface datum.

PERIOD OF RECORD: February 1996 to current year.

EXTREMES: Highest water level: 64.42 ft below land surface, February 16, 1996.

Lowest water level: 86.22 ft below land surface, July 31, 2002.

REMARKS:



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH	73.03	72.77	71.80	71.26	73.09	77.57	77.52	73.65	71.42	71.24	70.99	70.50	70.50 (Dec. 16)
	MEAN	73.82	73.43	72.53	73.06	77.16	79.56	79.36	75.49	72.23	71.97	71.84	72.60	74.42
	LOW	76.61	75.54	74.05	75.25	79.97	82.33	81.34	77.64	73.79	72.71	72.98	75.93	82.33 (Jun. 12)
2001	HIGH	70.15	69.21	67.93	68.23	73.66	73.18	72.81	74.05	72.76	72.93	76.45	74.56	67.93 (Mar. 31)
	MEAN	71.10	69.77	68.71	70.72	78.71	75.91	74.39	75.82	73.98	75.66	77.27	76.45	74.04
	LOW	72.59	70.34	69.57	73.35	81.41	80.25	77.24	77.34	76.08	77.80	78.10	77.97	81.41 (May 25)
2002	HIGH	74.63	73.77	72.82	73.05	74.77	79.23	79.61	80.66	80.38	78.71	74.67	76.16	72.82 (Mar. 15)
	MEAN	76.43	75.30	73.36	73.94	77.85	81.29	82.14	83.39	81.10	80.33	77.35	77.19	78.31
	LOW	77.95	77.34	74.38	75.27	81.35	83.78	86.22	85.72	81.62	81.54	79.76	78.12	86.22 (Jul. 31)
2003	HIGH	75.85	72.25	72.90	72.25	71.04	70.23	69.43	68.23	68.82	--	--	--	68.23 (Aug. 21)
	MEAN	76.71	75.10	74.53	73.44	73.48	71.48	70.44	69.35	--	--	--	--	--
	LOW	78.56	77.08	75.24	75.18	76.47	74.03	71.66	71.55	75.92	--	--	--	78.56 (Jan. 25)
2004	HIGH	--	--	--	--	--	--	--	73.29	73.79	72.14	71.60	71.67	71.60 (Nov. 25)
	MEAN	--	--	--	--	--	--	--	74.64	76.09	72.99	72.31	71.91	--
	LOW	--	--	--	--	--	--	--	76.49	77.84	76.61	72.87	72.22	77.84 (Sep. 24)
2005	HIGH	71.45	70.93	70.31	70.32	70.19	71.95	72.24	--	--	--	--	--	70.19 (May 5)
	MEAN	71.77	71.46	70.84	70.80	71.49	72.60	72.87	--	--	--	--	--	--
	LOW	72.04	71.82	71.15	71.35	72.57	73.43	75.46	--	--	--	--	--	75.46 (Jul. 27)

COLLETON COUNTY

WELL NUMBER: COL-97

LATITUDE: 33° 02' 51"

GRID NUMBER: 26AA-k1

LONGITUDE: 80° 35' 56"

LOCATION: S.C. Highway 61, near Canadys.

AQUIFER: Floridan.

WELL CHARACTERISTICS: 4-inch diameter observation well. Depth: 342 ft. Open hole below 132 ft.

DATUM: Land surface is 84 ft (map estimate) above National Geodetic Vertical Datum of 1929.

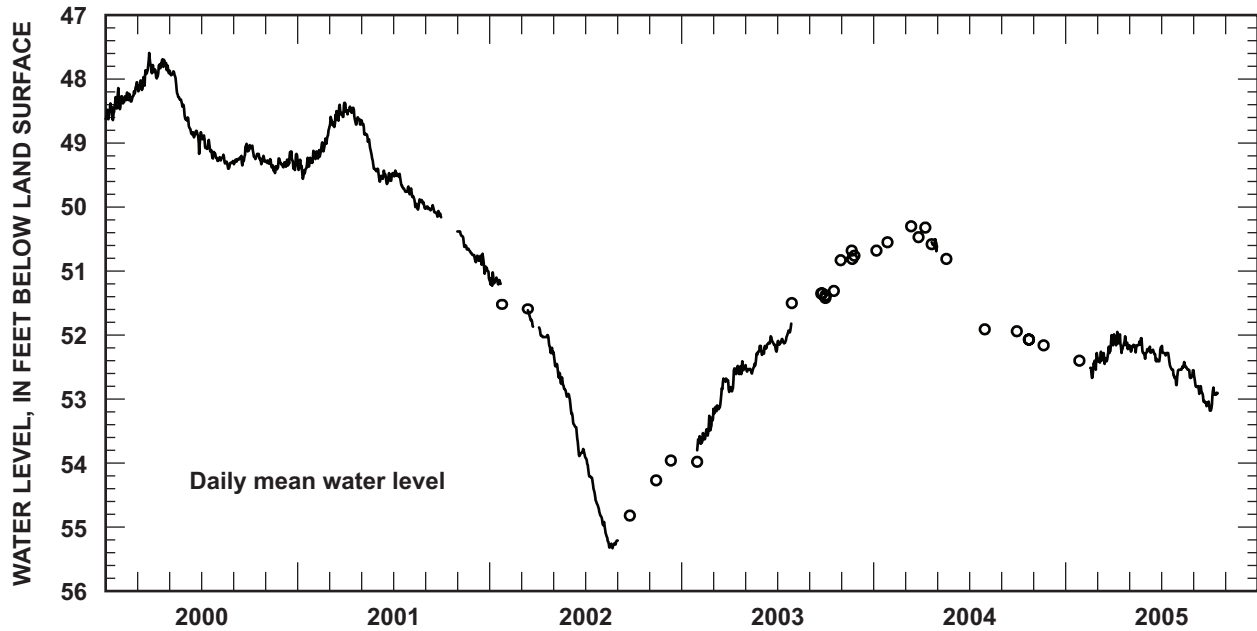
MEASURING POINT: Top of plywood platform, 1.67 ft above land surface datum.

PERIOD OF RECORD: August 1977 to current year.

EXTREMES: Highest water level: 36.79 ft below land surface, January 25, 1978.

Lowest water level: 55.33 ft below land surface, August 22, 2002.

REMARKS: Monitored continuously by USGS until November 2001.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2000	HIGH 48.14	48.05	47.59	47.69	47.87	48.60	48.86	49.18	49.01	49.03	49.24	49.13	47.59 (Mar. 24)
	MEAN 48.45	48.27	47.96	47.83	48.16	48.82	49.08	49.29	49.21	49.19	49.34	49.29	48.74
	LOW 48.64	48.38	48.19	47.99	48.61	49.17	49.26	49.40	49.35	49.33	49.47	49.42	49.47 (Nov. 18)
2001	HIGH 49.12	48.80	48.37	48.39	48.64	49.40	49.43	49.71	49.97	50.38	50.38	50.73	48.37 (Mar. 30)
	MEAN 49.34	49.08	48.59	48.56	49.05	49.53	49.61	49.91	50.06	50.38	50.57	50.88	49.57
	LOW 49.56	49.25	48.77	48.71	49.44	49.64	49.76	50.04	50.16	50.38	50.75	51.14	51.14 (Dec. 31)
2002	HIGH 51.02	51.28	51.45	51.87	52.26	52.97	53.90	54.84	--	--	--	--	51.02 (Jan. 6)
	MEAN 51.20	51.37	51.66	52.04	52.67	53.55	54.37	55.17	--	--	--	--	--
	LOW 51.29	51.39	51.87	52.29	52.96	53.89	54.83	55.33	--	--	--	--	55.33 (Aug. 22)
2003	HIGH --	53.26	52.68	52.41	52.17	52.02	51.82	--	--	--	--	--	51.82 (Jul. 28)
	MEAN --	53.53	52.96	52.62	52.44	52.17	52.05	--	--	--	--	--	--
	LOW --	53.70	53.31	52.89	52.60	52.31	52.22	--	--	--	--	--	53.70 (Feb. 6)
2004	HIGH --	--	--	50.50	--	--	--	--	--	--	--	--	--
	MEAN --	--	--	--	--	--	--	--	--	--	--	--	--
	LOW --	--	--	50.69	--	--	--	--	--	--	--	--	--
2005	HIGH --	52.28	52.00	51.95	52.05	52.18	52.17	52.42	52.64	52.82	--	--	51.95 (Apr. 8)
	MEAN --	--	52.30	52.12	52.19	52.29	52.44	52.55	52.91	--	--	--	--
	LOW --	52.67	52.45	52.28	52.37	52.41	52.78	52.67	53.11	53.18	--	--	53.18 (Oct. 3)

COLLETON COUNTY

WELL NUMBER: COL-301

LATITUDE: 32° 30' 42"

GRID NUMBER: 22GG-w4

LONGITUDE: 80° 17' 58"

LOCATION: Edisto Beach State Park, Edisto Island.

AQUIFER: Middle Floridan.

WELL CHARACTERISTICS: 6-inch diameter unused public supply well. Depth: 545 ft. Open hole below 516 ft.

DATUM: Land surface is 9.96 ft above National Geodetic Vertical Datum of 1929.

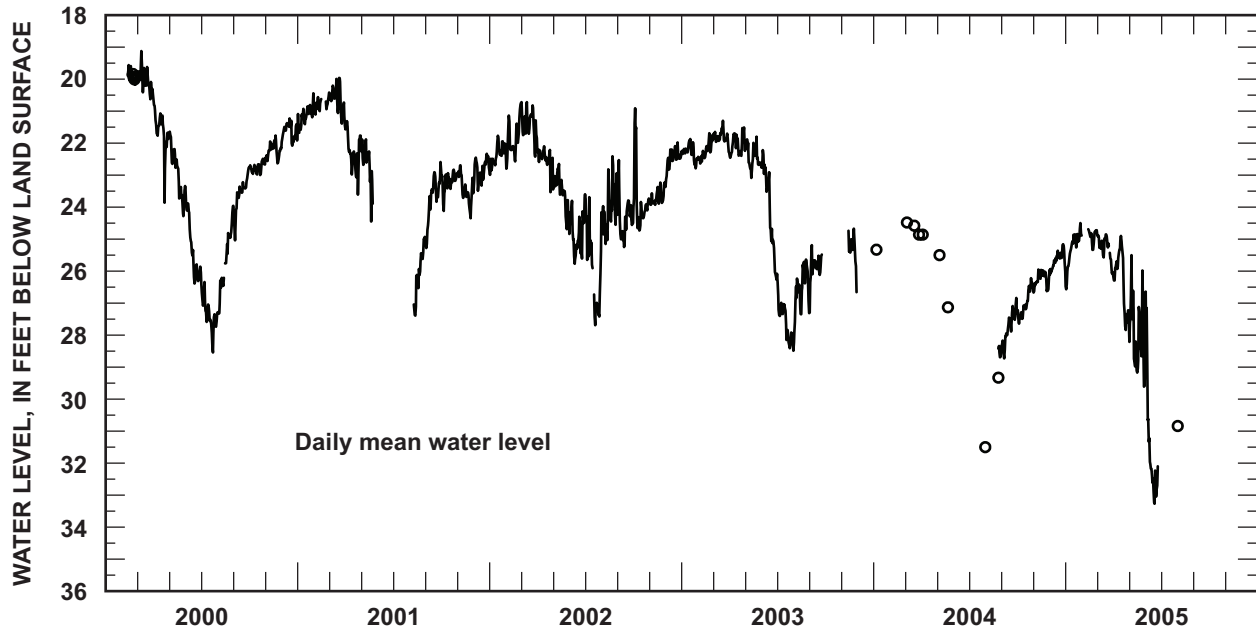
MEASURING POINT: Top of 6-inch casing, 2.61 ft above land surface datum.

PERIOD OF RECORD: February 2000 to current year.

EXTREMES: Highest water level: 19.12 ft below land surface, March 9, 2000.

Lowest water level: 33.27 ft below land surface, June 18, 2005.

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	
2000	HIGH	--	19.56	19.12	20.64	21.64	23.44	26.34	23.96	22.75	22.46	21.76	21.23	19.12 (Mar. 9)
	MEAN	--	19.87	20.04	21.59	22.89	25.28	27.35	25.72	23.57	22.75	22.23	21.63	22.99
	LOW	--	20.17	20.63	23.86	24.28	26.39	28.54	27.33	25.04	23.00	22.63	22.08	28.54 (Jul. 23)
2001	HIGH	20.44	20.42	19.96	21.31	21.88	--	--	24.93	22.59	22.83	22.69	22.33	19.96 (Mar. 20)
	MEAN	21.14	--	20.65	22.28	22.63	--	--	26.08	23.71	23.21	23.44	22.83	--
	LOW	21.68	21.11	21.45	23.61	24.45	--	--	27.39	25.28	24.12	24.35	23.49	27.39 (Aug. 12)
2002	HIGH	21.77	20.79	20.72	22.10	22.65	23.69	23.60	22.41	22.53	20.91	23.23	21.98	20.72 (Mar. 2)
	MEAN	22.34	21.92	21.38	22.46	23.48	24.84	25.92	24.04	24.33	23.81	23.68	22.51	23.39
	LOW	22.99	22.80	22.42	23.53	24.69	25.77	27.69	25.15	25.25	24.73	23.93	23.37	27.69 (Jul. 20)
2003	HIGH	21.87	21.69	21.30	21.51	21.80	22.22	26.08	25.64	25.19	--	24.67	24.07	21.30 (Mar. 20)
	MEAN	22.28	22.27	21.80	22.03	22.42	24.02	27.53	26.64	--	--	--	24.86	--
	LOW	22.79	22.64	22.27	22.46	23.09	26.27	28.41	28.49	27.30	--	26.66	25.76	28.49 (Aug. 1)
2004	HIGH	--	--	--	--	--	--	--	--	26.84	26.22	25.95	25.16	25.16 (Dec. 26)
	MEAN	--	--	--	--	--	--	--	--	27.72	26.99	26.24	25.67	--
	LOW	--	--	--	--	--	--	--	--	28.73	27.64	26.63	26.48	28.73 (Sep. 5)
2005	HIGH	24.50	24.69	24.85	24.90	25.50	26.64	--	--	--	--	--	--	24.50 (Jan. 28)
	MEAN	25.25	--	25.28	26.26	28.04	31.42	--	--	--	--	--	--	--
	LOW	26.57	25.34	26.12	27.84	29.61	33.27	--	--	--	--	--	--	33.27 (Jun. 18)

HAMPTON COUNTY

WELL NUMBER: HAM-228

LATITUDE: 32° 56' 52"

GRID NUMBER: 33BB-s1

LONGITUDE: 81° 11' 51"

LOCATION: McMillan Road, near Brunson.

AQUIFER: Upper Floridan.

WELL CHARACTERISTICS: 4-inch diameter unused domestic well. Depth: 83 ft. Open interval unknown.

DATUM: Land surface is 128 ft above National Geodetic Vertical Datum of 1929.

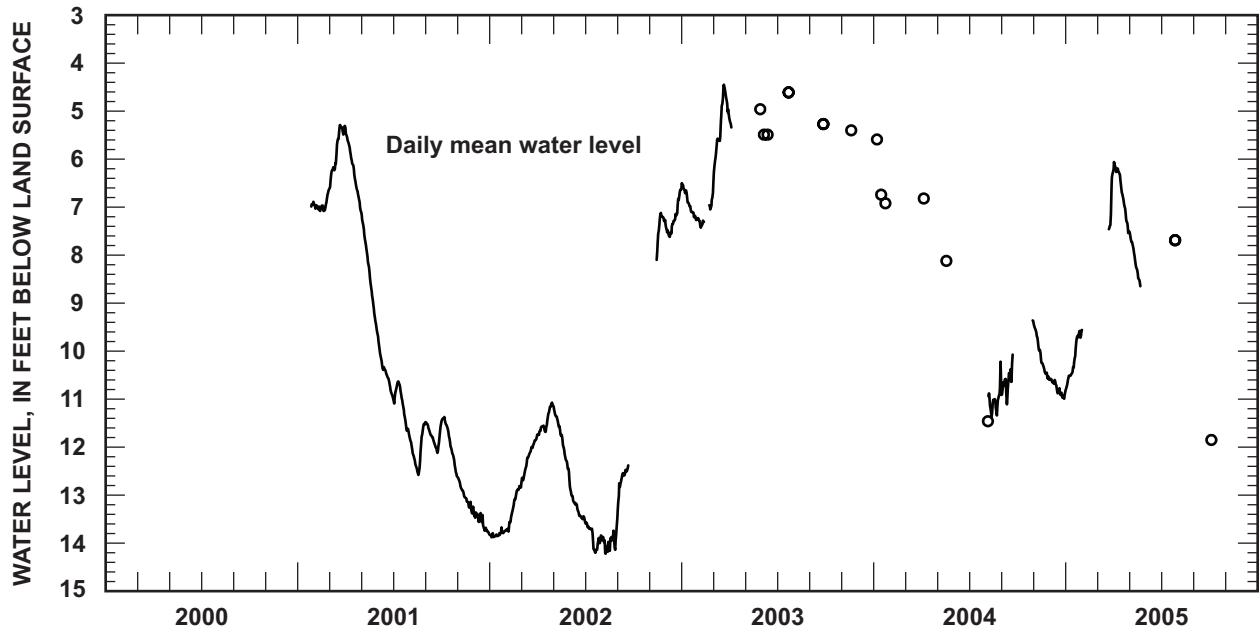
MEASURING POINT: Top of casing, 0.98 ft above land surface datum.

PERIOD OF RECORD: January 2001 to current year.

EXTREMES: Highest water level: 4.45 ft below land surface, March 22, 2003.

Lowest water level: 14.22 ft below land surface, August 9, 2002.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	6.89	6.65	5.29	5.35	7.10	9.64	10.63	11.48	11.48	11.37	12.63	13.34	5.29 (Mar. 22)
	MEAN	6.94	6.97	5.84	6.18	8.33	10.39	11.10	12.06	11.78	11.89	13.03	13.56	10.10
	LOW	6.99	7.08	6.63	7.07	9.58	10.95	11.73	12.58	12.12	12.62	13.38	13.82	13.82 (Dec. 31)
2002	HIGH	13.67	12.81	11.78	11.07	11.13	12.65	13.56	13.49	11.50	--	7.12	6.60	6.60 (Dec. 31)
	MEAN	13.81	13.26	12.23	11.48	11.78	13.23	13.86	13.96	--	--	7.23	--	--
	LOW	13.88	13.76	12.84	11.75	12.51	13.51	14.20	14.22	13.32	--	9.99	7.62	14.22 (Aug. 9)
2003	HIGH	6.50	6.80	4.45	5.14	--	--	--	--	--	--	--	--	4.45 (Mar. 22)
	MEAN	6.94	--	5.32	--	--	--	--	--	--	--	--	--	--
	LOW	7.27	7.43	6.70	5.34	--	--	--	--	--	--	--	--	7.43 (Feb. 6)
2004	HIGH	--	--	--	--	--	--	10.22	10.07	9.36	9.47	10.57	9.36	9.36 (Oct. 29)
	MEAN	--	--	--	--	--	--	11.02	--	--	10.13	10.78	--	--
	LOW	--	--	--	--	--	--	11.36	11.11	9.42	10.59	10.99	11.36	11.36 (Aug. 12)
2005	HIGH	9.56	--	6.26	6.06	7.51	--	--	--	--	--	--	--	6.06 (Apr. 2)
	MEAN	10.14	--	--	6.67	--	--	--	--	--	--	--	--	--
	LOW	10.77	--	7.46	7.54	8.65	--	--	--	--	--	--	--	10.77 (Jan. 1)

JASPER COUNTY

WELL NUMBER: JAS-425

LATITUDE: 32° 37' 04"

GRID NUMBER: 30FF-o1

LONGITUDE: 80° 59' 45"

LOCATION: U.S. Highway 278, Gillisonville.

AQUIFER: Upper Floridan.

WELL CHARACTERISTICS: 6-inch diameter observation well. Depth: 225 ft. Open hole below 148 ft.

DATUM: Land surface is 64.10 ft above National Geodetic Vertical Datum of 1929.

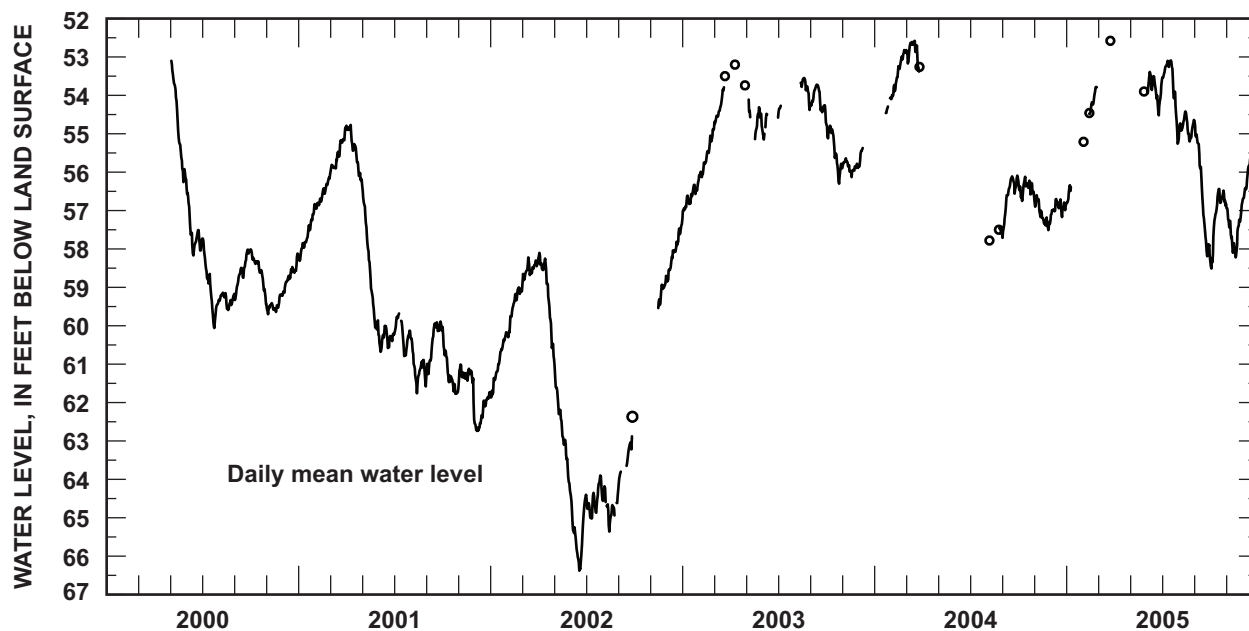
MEASURING POINT: Top of 6-inch casing, 1.97 ft above land surface datum.

PERIOD OF RECORD: April 2000 to current year.

EXTREMES: Highest water level: 52.58 ft below land surface, March 17, 2004.

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	
2000	HIGH	--	--	--	52.87	56.37	57.73	59.14	58.02	58.01	59.19	58.12	52.87 (May 2)	
	MEAN	--	--	--	54.76	57.54	58.98	59.32	58.55	58.57	59.46	58.67	--	
	LOW	--	--	--	--	56.26	58.17	60.06	59.59	59.33	59.44	59.70	59.19	60.06 (Jul. 24)
2001	HIGH	56.83	56.14	54.83	54.77	56.35	60.00	59.68	60.31	59.89	60.03	61.01	61.73	54.77 (Apr. 9)
	MEAN	57.64	56.59	55.52	55.40	58.47	60.32	60.17	61.08	60.38	61.24	61.32	62.26	59.20
	LOW	58.31	56.95	56.05	56.21	60.10	60.68	60.79	61.76	61.26	61.77	62.44	62.74	62.74 (Dec. 6)
2002	HIGH	60.17	59.00	58.22	58.10	60.86	64.35	63.90	64.18	62.88	--	58.70	57.21	57.21 (Dec. 31)
	MEAN	60.96	59.50	58.55	59.03	62.63	65.39	64.54	64.69	--	--	58.06	--	--
	LOW	61.87	60.30	59.10	60.80	64.28	66.38	65.02	65.36	64.12	--	59.64	58.85	66.38 (Jun. 18)
2003	HIGH	56.19	54.89	53.79	53.99	53.95	54.06	54.27	53.55	53.72	54.77	55.64	55.37	53.55 (Aug. 19)
	MEAN	56.64	55.60	--	--	--	--	--	--	54.11	55.39	55.86	--	--
	LOW	57.01	56.13	54.87	54.11	55.14	55.15	54.71	54.38	54.70	56.30	56.13	55.85	57.01 (Jan. 2)
2004	HIGH	54.06	52.82	52.58	--	--	--	57.44	56.09	56.12	56.60	56.70	52.58 (Mar. 17)	
	MEAN	--	53.41	--	--	--	--	--	56.52	56.42	57.12	56.91	--	
	LOW	54.46	54.10	53.38	--	--	--	--	57.71	57.54	56.78	57.51	57.17	57.71 (Aug. 31)
2005	HIGH	56.34	53.78	--	--	--	53.39	53.09	54.42	54.79	56.44	56.78	54.62	53.09 (Jul. 17)
	MEAN	--	--	--	--	--	53.84	53.66	54.82	56.64	57.07	57.52	55.70	--
	LOW	56.80	54.48	--	--	--	54.52	55.26	55.20	58.31	58.51	58.22	56.69	58.51 (Oct. 2)

ORANGEBURG COUNTY

WELL NUMBER: ORG-431

LATITUDE: 33° 30' 29"

GRID NUMBER: 29U-v3

LONGITUDE: 80° 51' 54"

LOCATION: Clark Middle School, Orangeburg.

AQUIFER: Middle Floridan.

WELL CHARACTERISTICS: 2-inch diameter observation well. Depth: 93 ft. Screened from 83 to 88 ft.

DATUM: Land surface is 256 ft (map estimate) above National Geodetic Vertical Datum of 1929.

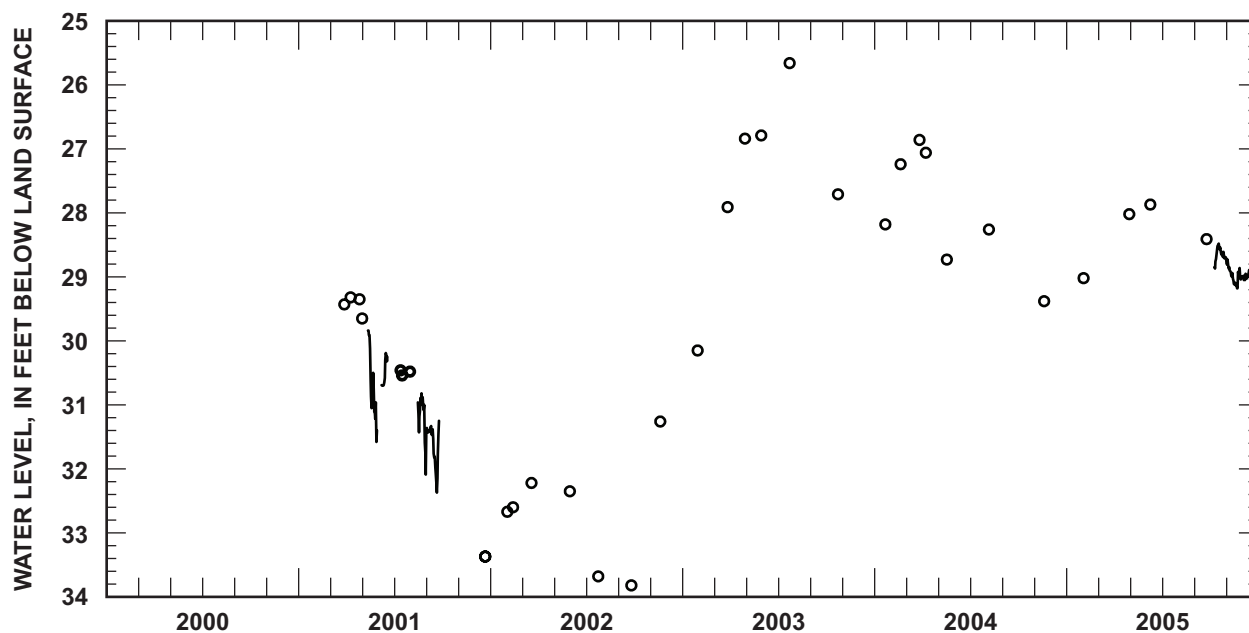
MEASURING POINT: Top of 2-inch casing, 3.13 ft above land surface datum.

PERIOD OF RECORD: March 2001 to current year.

EXTREMES: Highest water level: 25.66 ft below land surface, July 22, 2003.

Lowest water level: 33.82 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
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2001	HIGH	--	--	--	29.84	30.19	--	30.82	31.25	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	31.58	30.70	--	32.09	32.37	--	--	--	--
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2003	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2004	HIGH	--	--	--	--	--	--	--	--	--	--	--	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	--	--	--	--
2005	HIGH	--	--	--	--	--	--	--	--	28.48	28.73	28.87	--
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--
	LOW	--	--	--	--	--	--	--	--	28.87	29.18	29.07	--

SUMTER COUNTY

WELL NUMBER: SUM-355

LATITUDE: 34° 00' 59"

GRID NUMBER: 23O-y3

LONGITUDE: 80° 24' 07"

LOCATION: Ebenezer Elementary School.

AQUIFER: Floridan.

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

DATUM: Land surface is 190 ft (map estimate) above National Geodetic Vertical Datum of 1929.

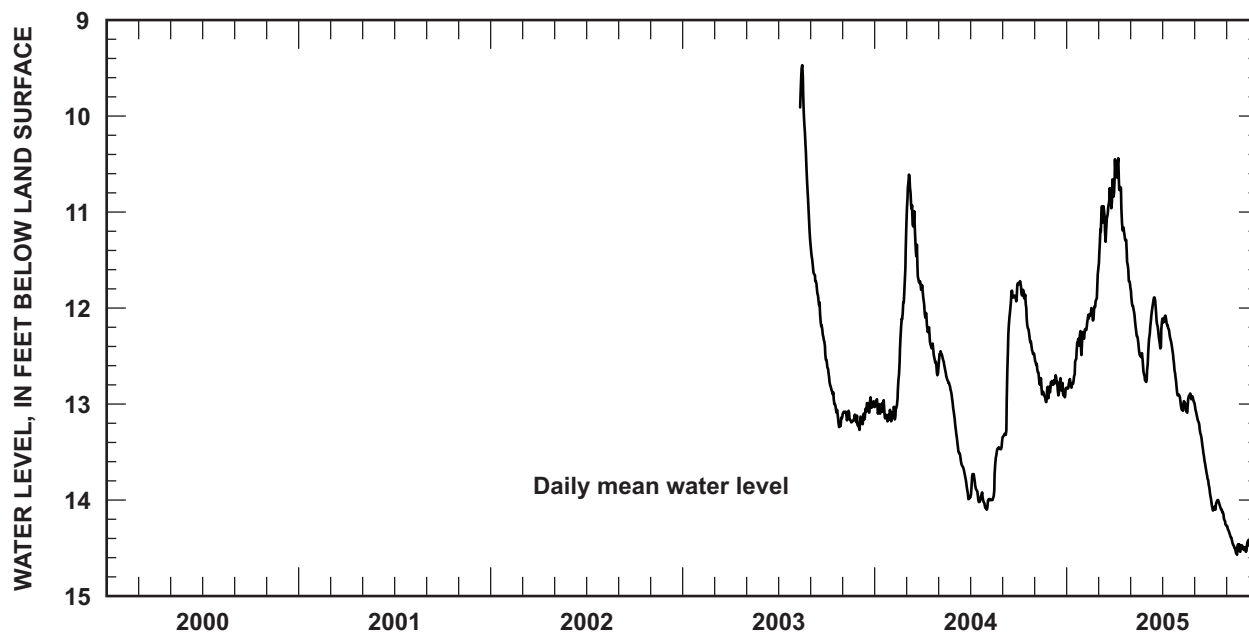
MEASURING POINT: Top of 6-inch casing, 1.73 ft above land surface datum.

PERIOD OF RECORD: August 2003 to current year.

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

Lowest water level: 14.57 ft below land surface, November 20, 2005.

REMARKS:



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2002	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2003	HIGH	--	--	--	--	--	--	9.47	11.36	12.54	13.07	12.93	9.47 (Aug. 16)	
	MEAN	--	--	--	--	--	--	--	11.93	12.95	13.14	13.09	--	
	LOW	--	--	--	--	--	--	11.29	12.54	13.24	13.22	13.27	13.27 (Dec. 3)	
2004	HIGH	12.95	11.39	10.61	11.82	12.45	13.16	13.73	13.35	11.74	11.72	12.55	12.70	10.61 (Mar. 6)
	MEAN	13.07	12.57	11.24	12.31	12.71	13.63	13.93	13.74	12.32	12.10	12.80	12.81	12.77
	LOW	13.18	13.18	11.81	12.70	12.87	13.99	14.09	14.10	13.34	12.51	12.98	12.93	14.10 (Aug. 1)
2005	HIGH	12.24	11.65	10.66	10.44	11.79	11.89	12.08	12.89	13.03	13.98	14.27	14.13	10.44 (Apr. 8)
	MEAN	12.58	12.07	11.04	11.05	12.33	12.21	12.39	12.98	13.46	14.10	14.45	14.37	12.75
	LOW	12.84	12.32	11.59	11.73	12.77	12.75	12.91	13.09	13.95	14.27	14.57	14.54	14.57 (Nov. 20)

SALTWATER INTRUSION MONITORING

DNR designed a network to observe ground-water quality changes caused by saltwater intrusion. Conditions that lead to this form of ground-water contamination are common in South Carolina's lower Coastal Plain, and the most common mechanism is the capture of subsurface brackish water and saltwater by wells. The area of most immediate concern is in southern Beaufort County, where pumping from the Floridan aquifer there and at Savannah, Ga., has induced the southward migration of saltwater at rates that locally exceed 100 ft per year. Contamination there also occurs by the downward migration of modern seawater where confining material above the Floridan system is thin or absent. USGS operates a DNR-funded, real-time water-level and fluid-conductivity monitoring site at the northwest end of Hilton Head Island, and DHEC runs an extensive network of project-related monitoring sites throughout southern Beaufort County.

Along the coast of Charleston County, lateral intrusion occurs where pumping from the Middendorf aquifer captures the brackish water that lies in that system offshore. Intrusion is a less severe problem there because of the aquifer's low hydraulic conductivity and because of the broad, diffuse nature of the brackish-water front. Slow, lateral intrusion also is likely in part of the Floridan aquifer at Charleston, where a shallow cone of depression has existed for many years.

Saltwater upconing is a potential problem in southern Charleston County, and DNR operates a water-level and specific-conductance monitoring station at Edisto Beach State Park (COL-301). (Figure 14.) Most of the water used in the area is pumped from a 10- to 40-ft permeable zone in the Floridan aquifer, and brackish water in the underlying rock may be moving upward as heads in shallower aquifers decline. Data from the Edisto Beach station is included in this section.

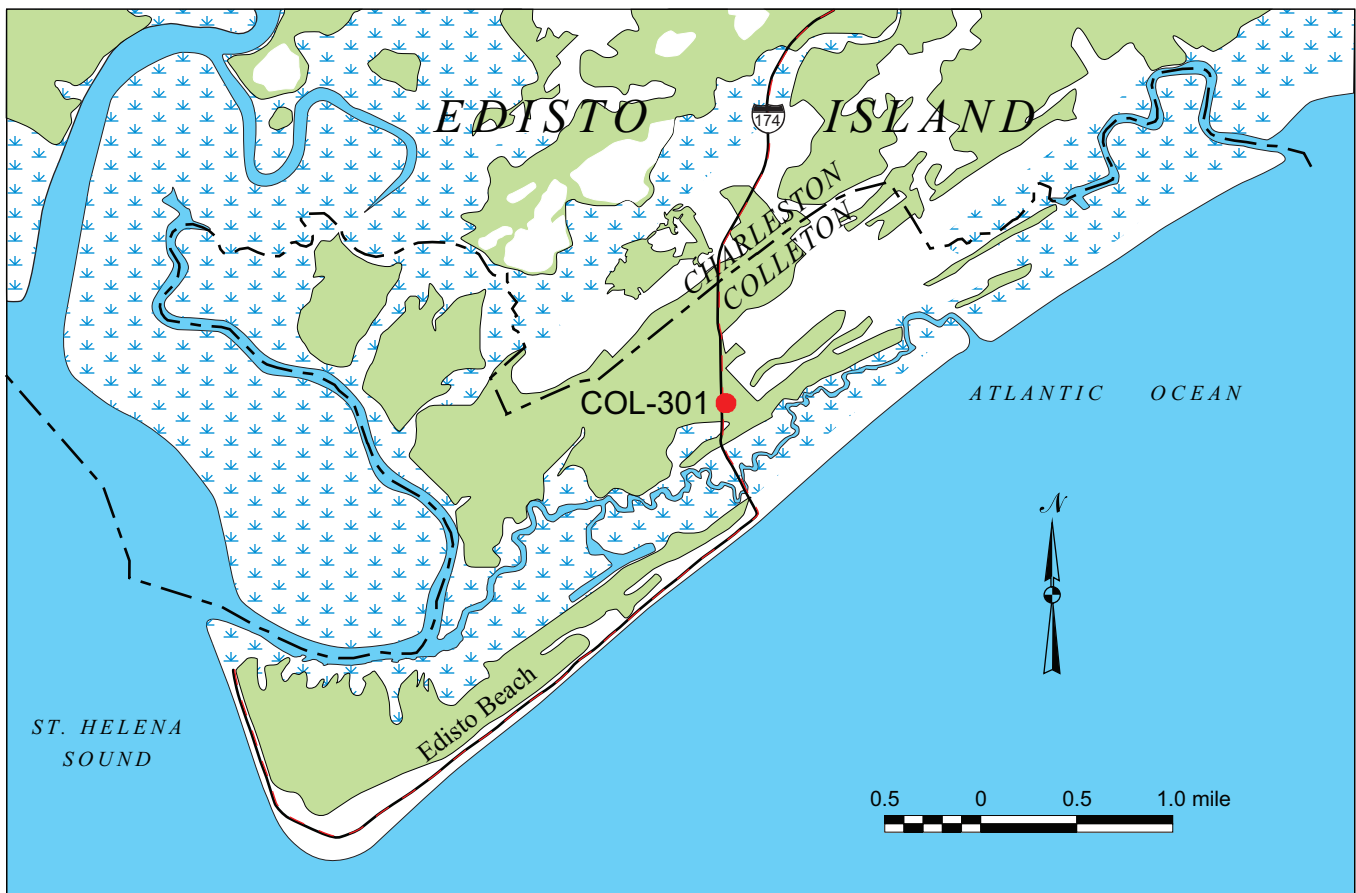


Figure 14. Location of saltwater-intrusion monitoring well at Edisto Island, Colleton County.

COLLETON COUNTY

WELL NUMBER: COL-301

LATITUDE: 33° 30' 42"

GRID NUMBER: 22GG-w4

LONGITUDE: 80° 17' 58"

LOCATION: Edisto Beach State Park, Edisto Island.

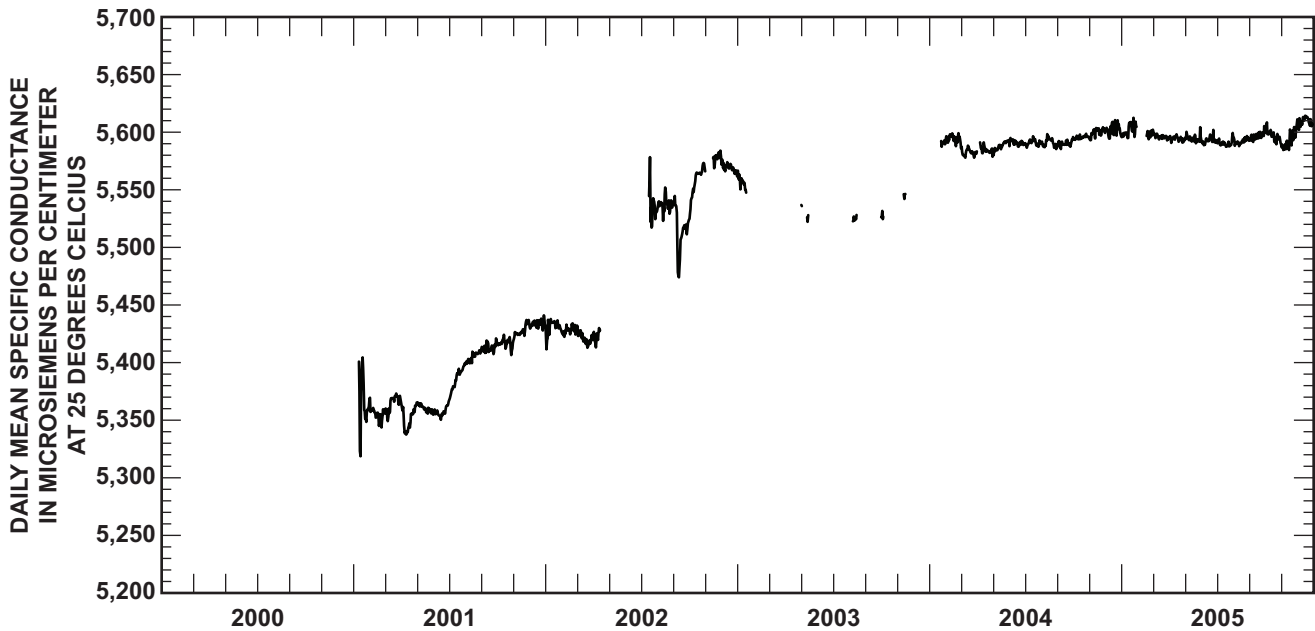
INSTRUMENTATION: Unidata four-electrode conductivity instrument.

PERIOD OF RECORD: January 2001 to current year.

EXTREMES: Maximum specific conductivity: 5,614 microsiemens per centimeter, December 7, 2005.

Minimum specific conductivity: 5,318 microsiemens per centimeter, January 14, 2001.

REMARKS: This is a ground-water monitoring well. Water levels are also measured at this site.



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
2000	HIGH	--	--	--	--	--	--	--	--	--	--	--	--	
	MEAN	--	--	--	--	--	--	--	--	--	--	--	--	
	LOW	--	--	--	--	--	--	--	--	--	--	--	--	
2001	HIGH	5,410	5,370	5,370	5,360	5,370	5,360	5,400	5,410	5,420	5,440	5,440	5,441 (Dec. 29)	
	MEAN	--	5,360	5,360	5,350	5,360	5,360	5,380	5,400	5,410	5,420	5,430	5,430	5,386
	LOW	5,320	5,340	5,350	5,340	5,360	5,350	5,370	5,400	5,410	5,410	5,420	5,430	5,319 (Jan. 14)
2002	HIGH	5,440	5,430	5,430	5,430	--	--	5,580	5,550	5,540	5,570	5,580	5,580	5,584 (Nov. 30)
	MEAN	5,430	5,430	5,420	5,420	--	--	5,540	5,540	5,490	5,560	5,580	5,570	5,499
	LOW	5,410	5,420	5,410	5,410	--	--	5,520	5,520	4,790	5,520	5,570	5,560	5,411 (Jan. 3)
2003	HIGH	5,570	--	--	--	5,540	--	--	5,530	--	5,530	5,550	--	5,567 (Jan. 2)
	MEAN	5,560	--	--	--	5,530	--	--	5,520	--	5,530	5,550	--	--
	LOW	5,550	--	--	--	5,520	--	--	5,520	--	5,520	5,540	--	5,522 (May 15)
2004	HIGH	5,590	5,600	5,590	5,590	5,590	5,590	5,600	5,600	5,590	5,600	5,610	5,610	5,610 (Dec 20)
	MEAN	5,590	5,590	5,580	5,590	5,590	5,590	5,590	5,590	5,600	5,600	5,600	5,600	5,592
	LOW	5,590	5,590	5,580	5,580	5,580	5,590	5,590	5,590	5,590	5,590	5,590	5,590	5,578 (Mar. 10)
2005	HIGH	5,610	5,600	5,600	5,600	5,600	5,600	5,600	5,610	5,610	5,600	5,610	5,610	5,614 (Dec. 17)
	MEAN	5,600	5,600	5,600	5,590	5,590	5,590	5,590	5,590	5,600	5,600	5,590	5,610	5,596
	LOW	5,590	5,590	5,590	5,590	5,590	5,590	5,590	5,590	5,590	5,590	5,580	5,600	5,585 (Nov. 16)

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