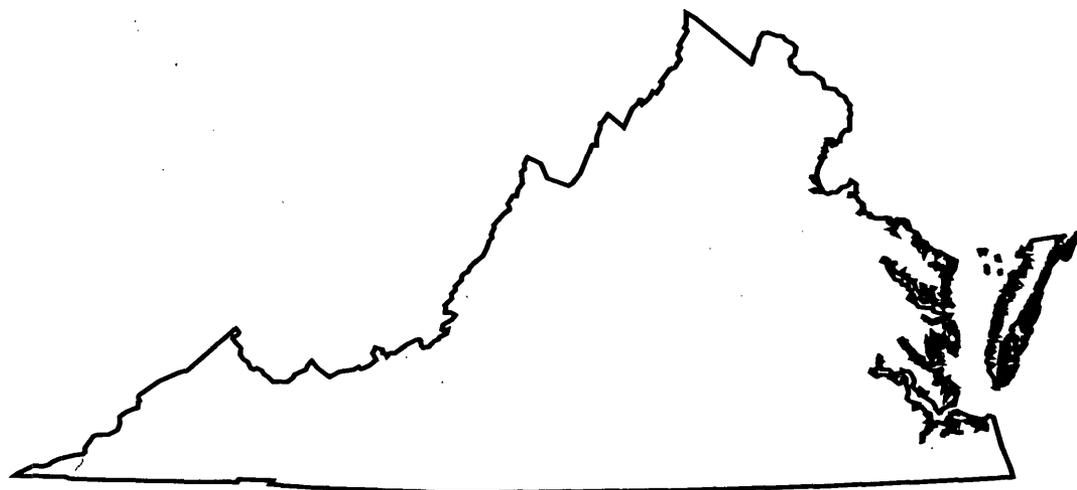




Water Resources Data Virginia Water Year 1995

Volume 2. Ground-Water-Level and
Ground-Water-Quality Records



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT VA-95-2
Prepared in cooperation with the Virginia Department of Environmental
Quality and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1			1	2	3	4	5					1	2	3
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
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30	31																			

1995

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
										1	2	3	4				1	2	3	4
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8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18
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29	30	31																		

APRIL							MAY							JUNE						
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9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
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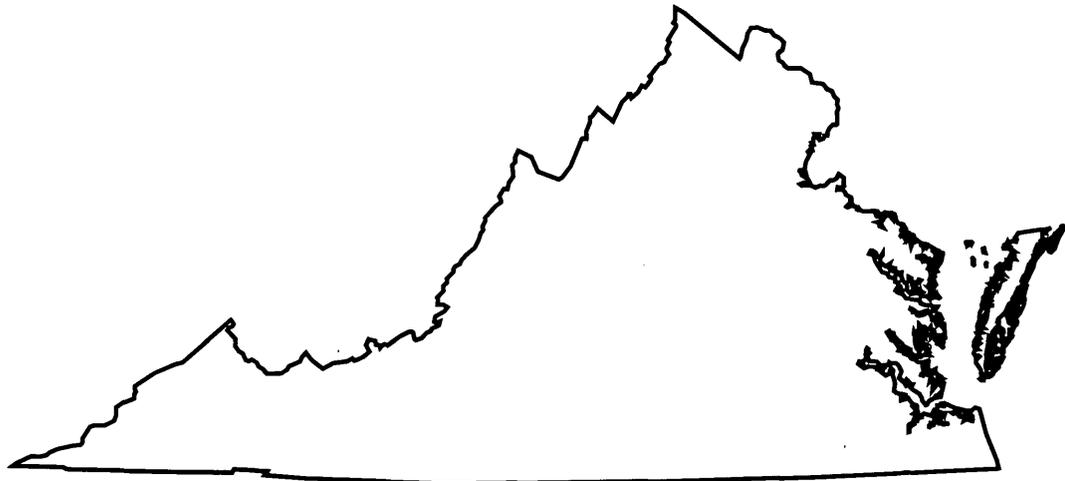
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
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30	31																			



Water Resources Data Virginia Water Year 1995

Volume 2. Ground-Water-Level and
Ground-Water-Quality Records

by Byron J. Prugh, Jr., and Eugene D. Powell



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT VA-95-2
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by the Virginia Department of Environmental Quality]

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WATER RESOURCES DATA - VIRGINIA, 1995

VOLUME 2. GROUND-WATER-LEVEL AND GROUND-WATER-QUALITY RECORDS

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Virginia each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Virginia."

This series of annual reports for Virginia began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1990 water year, the quantity of data to be published made it necessary to present the data in two volumes; Volume 1 encompassed surface-water-discharge and surface-water-quality records and Volume 2 encompassed ground-water-level and ground-water-quality records.

This report is Volume 2 in our 1995 series and includes records of water levels and water quality of ground-water wells. It contains records for water levels at 413 observation wells and water quality at 37 wells. Locations of these wells are shown on figures 4, 5, 6, and 7. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Virginia.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Virginia were published in U.S. Geological Survey Water-Supply Papers. Data on water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." These Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Federal Center, Bldg. 41, Box 25286, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report VA-95-2." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at the address given on the back of the title page or by telephone (804) 278-4750.

COOPERATION

The U.S. Geological Survey and agencies of the State of Virginia have had joint-funding agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through joint-funding agreements with the Survey are:

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY, Peter W. Schmidt, executive director.

CITY OF NEWPORT NEWS, Brian Ramaley, director, Department of Public Utilities.

HAMPTON ROADS PLANNING DISTRICT COMMISSION, Arthur L. Collins, executive director.

Organizations that provided data are acknowledged in station descriptions.

RECORDS COLLECTED BY THE STATE OF VIRGINIA

In addition to data collected by the U.S. Geological Survey, there are included herein records for 213 index wells operated by the Virginia Department of Environmental Quality. These records are published as provided and are acknowledged in the "REMARKS" paragraph of each individual well. The Virginia Department of Environmental Quality is under the direction of Peter W. Schmidt, executive director. Published material for the ground-water wells is supplied, respectively, through the Water Division, Robert G. Burnley, director, and Office of Water Resources Management, Larry G. Lawson, director.

SUMMARY OF HYDROLOGIC CONDITIONS

Ground-water levels in the shallow water-table aquifers across the State were characterized by a trend from above-average to near-average water-level conditions at the beginning of the 1994 water year to near-average to slightly below-average conditions at the end of the water year (fig. 1).

The following summary of hydrologic conditions is based on water-level measurements from a network of 14 observation wells visited near the end of each month. These "index" wells were selected to represent large areas of the State having similar physiographic, geologic, and climatological environments; however, water levels in any one of the many other observation wells listed in this report might differ from the general trends because of local conditions. Index wells used in this summary are as follows: in the counties of Accomack (67M2), Buchanan (14E40), Buckingham (41H3), Clarke (46W175), Fairfax (52V2), Isle of Wight (55B16), James City (56H27), Loudoun (50W4C), Louisa (45N1), Montgomery (27F2), Rockingham (41Q1), and Westmoreland (55P9), and in the cities of Colonial Heights (51G1) and Suffolk (58B13). A more complete description of the index wells used for this summary can be found in the data tables and on figures 4, 5, 6, and 7. A map showing the location of the five physiographic provinces in Virginia referenced in the summary is located on figure 4.

At the beginning of the water year (October 1994), water levels were above average in 8 of 14 index wells used to monitor current conditions in the water-table aquifers across the State. Water levels were above the long-term average in northern Virginia in Clarke and Loudoun Counties; in the central and southern Piedmont in Louisa and Buckingham Counties and the city of Colonial Heights; in southwestern Virginia in Buchanan County; and on the Eastern Shore at Wallops Island in Accomack County. Water levels were below average elsewhere. Water levels declined in 9 of the 14 index wells during October. A new record-high water level for the month of October was recorded in the Clarke County well. The previous record was established in 1993. Annual high-water levels for the 1995 water year were measured in the Buckingham and Accomack County wells.

In November, water levels remained above average in 8 of the 14 observation wells but the pattern of departure from the long-term average changed slightly. Water levels in the index wells in Rockingham, Montgomery, and Buchanan Counties west of the Blue Ridge and in the immediate vicinity of the community of Reston in northern Virginia were below average. Elsewhere, water levels were above average. Water levels declined in wells in the northern and central Piedmont and west of the Blue Ridge and rose in the southern Piedmont and Coastal Plain. A new record-high water level for the month of November was again recorded at the index well in Clarke County. The previous record was established in 1993. The annual low-water level in the Loudoun County index well was measured at the end of the month.

In December, the areal extent of below-average water-level conditions increased slightly to encompass the index well in Buckingham County. Relative conditions remained the same at the other index wells. Water levels declined in all except two of the index wells during the month--the wells at Leesburg in Loudoun County and Reston in Fairfax County rose about 0.3 feet--while the declines in the other 12 index wells averaged about 0.4 feet. No new record extremes were established during the month, although the annual low-water level for the water year was measured at the Rockingham County well.

In January, 7 of the 14 index wells recorded above-average water levels. Wells in northern and east-central Virginia and the extreme southwestern corner of the State had above-average water levels. Recharge from heavy precipitation at midmonth, especially in southwestern Virginia, resulted in sharp rises in water levels in wells west of the Blue Ridge. New record-high water levels for the month were recorded in the Buchanan and Clarke County wells. The previous records were established in 1994.

Water levels rose in 11 of the 14 index wells during February. The lone exceptions were located at the extreme corners of the State in Buchanan, Clarke, and Accomack Counties where levels declined. Water levels were above average in the northern and central areas of the State and below average elsewhere. The index well in Westmoreland County recorded its highest water level for the 1995 water year during the month. Statewide, water levels were down an average 2.7 feet from this time last year.

The extent of above-average water-level conditions diminished during March to five wells in Clarke, Loudoun, Louisa, and Accomack Counties, and the city of Colonial Heights. Water levels declined in the two southwestern Virginia index wells and in two index wells on the Coastal Plain in Westmoreland and Accomack Counties. Annual high-water levels were measured in four index wells--in Fairfax and Louisa Counties and in the cities of Colonial Heights and Suffolk. Water levels varied from 1.0 feet (Westmoreland County) to 10.5 feet (Rockingham County) below water levels observed at this time last year with the exception of the level in the Accomack County well which was up 0.3 feet.

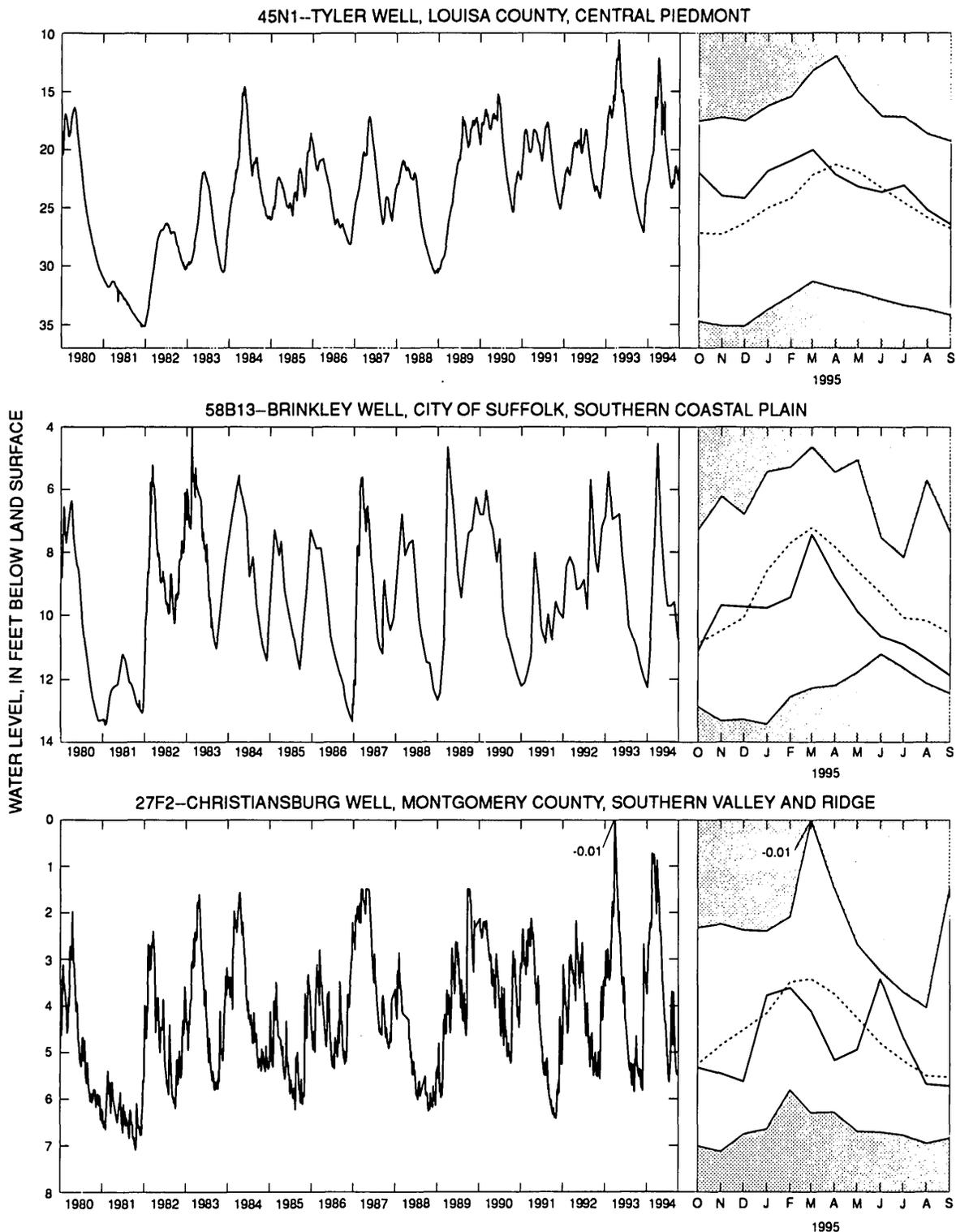


Figure 1. Monthly ground-water levels at key observation wells in water-table aquifers.

Water levels were below the long-term average for April in 11 of the 14 index wells. Exceptions were noted in the index wells in Buchanan, Accomack, and Westmoreland Counties where levels were above average for this time of year. Water levels generally declined in most index wells in normal seasonal fashion. No new record or annual extremes were recorded during the month.

In May, 10 of the 14 index wells recorded water levels below average for the month. Water levels generally declined during the month except in the central and southern Valley and Ridge region west of the Blue Ridge and in the vicinity of the Washington, D.C. metropolitan area where levels rose an average of 0.4 feet. One index well--Rockingham County--recorded its annual high-water level near the end of the month.

The portion of the State with below-average water levels declined in June partially as the result of recharge from exceptionally heavy precipitation in some locations during the last week of the month. The full impact of the recharge was not apparent at all locations until July. The average change in the water level was a rise of 0.4 feet but that varied from a rise of 5.8 feet in the Loudoun County well to a decline of 2.6 feet in the Rockingham County well. One well--Montgomery County--recorded its annual high-water level for the 1995 water year at the end of the month.

Water levels were above the long-term average in 10 of the 14 index wells at the end of July. Exceptions were noted in the upper Shenandoah Valley in Rockingham County, in the central and southern Piedmont at Buckingham County and the city of Colonial Heights, and in the southern Coastal Plain in the city of Suffolk where water levels were below average. Water levels rose in nonseasonal fashion in four wells in the central and northern Valley and Ridge and the western Piedmont in response to recharge from heavy precipitation near the end of the previous month. No new record extremes were recorded; however, the annual high-water level in the Loudoun County well was measured at the end of the month.

Water levels declined in all 14 of the index network wells during August and were below average in 7 of the 14 wells. August 1995 was the driest August on record with many areas of the State receiving less than 1 inch of measurable precipitation. In combination with high temperatures and evaporation rates, the lack of precipitation placed an increased demand on the shallow water-table aquifers both from natural and human sources. Water levels declined an average of 1.2 feet across the State during the month. Despite the decline, four wells in northern Virginia and one well in Accomack County on the Eastern Shore had water levels above the long-term mean for the month. One well--Buchanan County--recorded its annual low-water level near the end of the month.

Conditions did not change much during September and water levels continued to decline in 13 of the index wells. The lone exception--Buchanan County--apparently was affected by a very localized precipitation event and rose 4.1 feet. The average decline in the other 13 wells was 1.2 feet. Despite the decline, the water levels remained above average in northern Virginia. The Buchanan County well also had an above-average water level as a result of its sharp rise. Annual low-water levels for the 1995 water year were measured at eight of the index wells-- Montgomery, Clarke, Fairfax, Louisa, Buckingham, and Westmoreland Counties, and the cities of Colonial Heights and Suffolk. At monthend, water levels were continuing to decline and averaged 2.0 feet below those observed at the end of September last year.

In summary, the ground-water-level conditions in the shallow water-table aquifers in Virginia showed a slight trend from above or near average at the beginning of the water year to near or slightly below average at the end of the year.

The water level in the heavily pumped confined upper Potomac aquifer on the Coastal Plain at Toano in James City County declined 2.0 feet during the year. The cumulative decline in the upper Potomac aquifer at Toano from May 1985 to the end of September 1995 has been about 16.3 feet. Further south, near the center of the major pumping area in the middle Potomac aquifer near the city of Franklin in Isle of Wight County, the water level fluctuated between 203.3 and 206.7 feet below land surface during the year with no apparent seasonal or annual trend. Despite this hiatus in the historical declining trend in the water level at this location, the cumulative decline in the middle Potomac aquifer near Franklin has been about 105 feet since the early 1960's (fig.2).

EXPLANATION OF THE RECORDS

The ground-water records published in this report are for the 1995 water year that began October 1, 1994, and ended September 30, 1995. A calendar of the water year is provided on the inside of the front cover. The records contain ground-water-level and ground-water-quality data. The locations of the wells where the data were collected are shown in figures 4, 5, 6, and 7. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

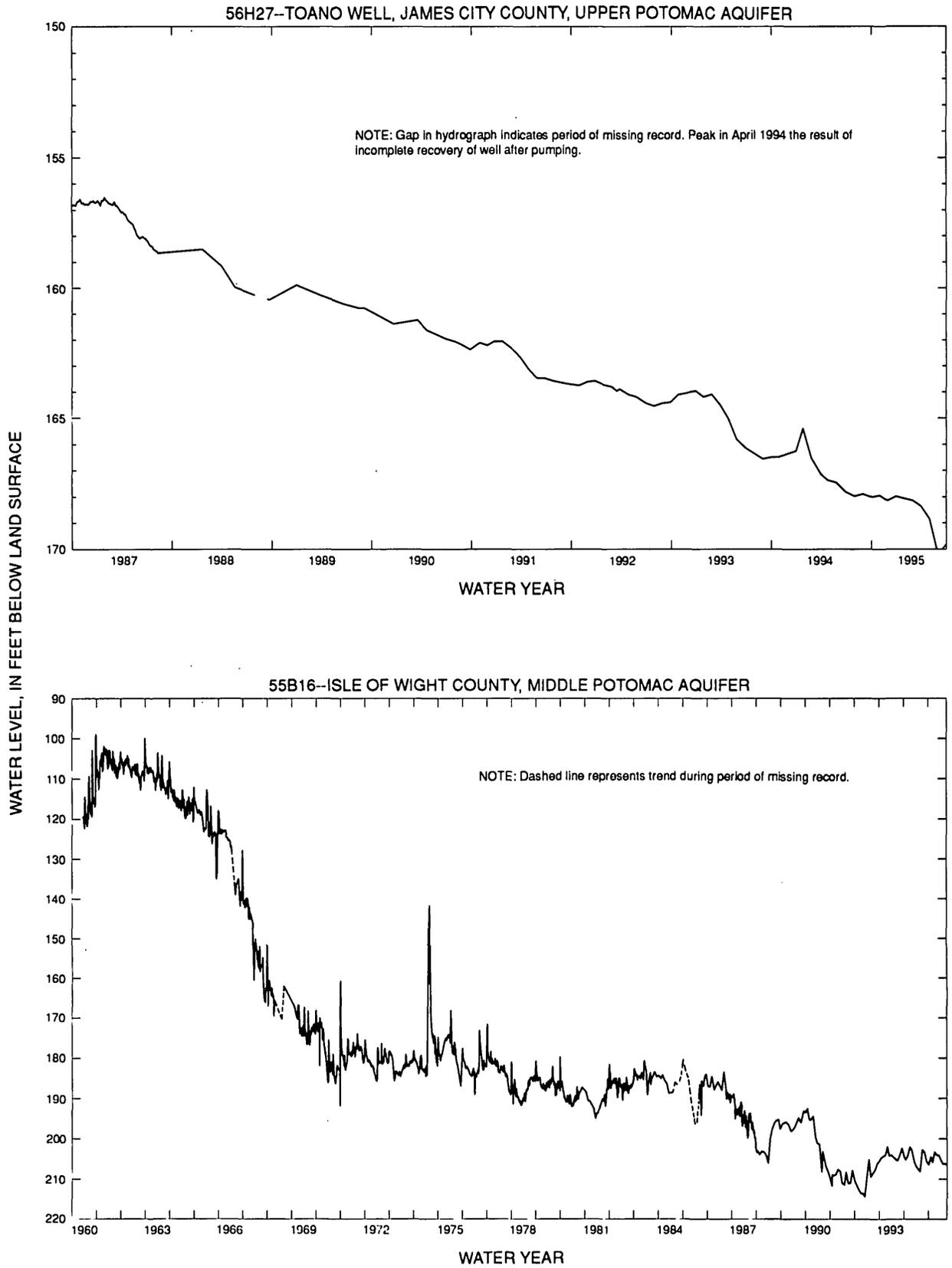


Figure 2. Ground-water levels in selected observation wells in confined Coastal Plain aquifers.

Station Identification Numbers

Each well in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given well and to no other. The number usually is assigned when a well is first established and is retained for that well indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for ground-water well sites is based on geographic location. The "latitude-longitude" system is used for wells.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

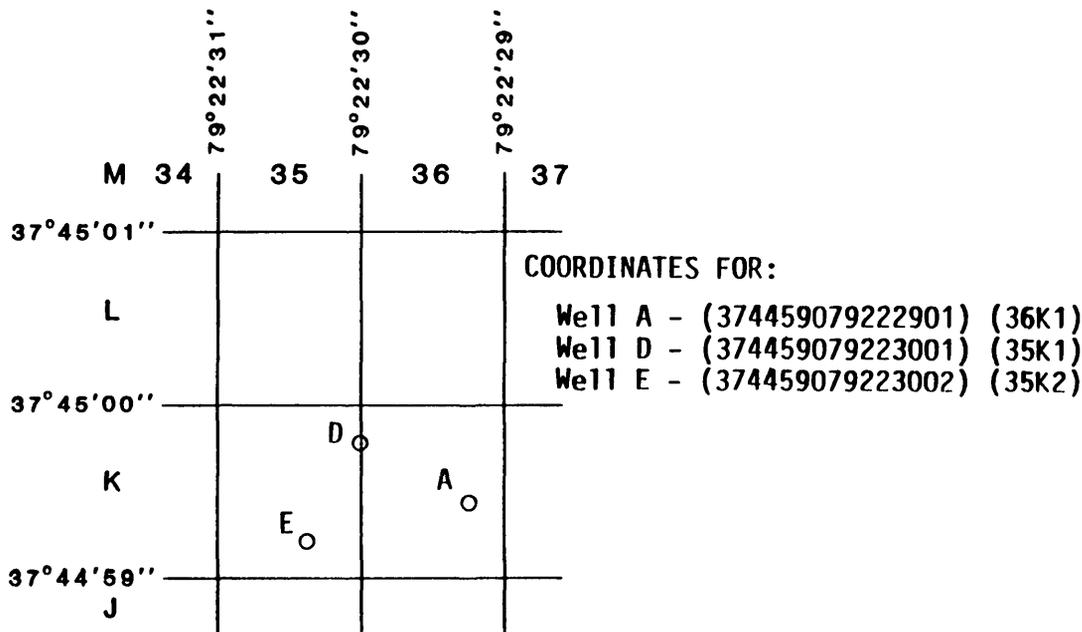


FIGURE 3.--System for numbering wells

A second well-numbering system used in Virginia utilizes 7 1/2-minute quadrangles within the State. The quadrangles are numbered from west to east, and lettered from south to north, omitting the letters "I" and "O." The designation for each quadrangle is determined by the method "Read Right, Up." Wells are numbered serially within each quadrangle. This local well number is shown immediately after the primary well number.

Well records furnished by the State of Virginia also include the well number that is based on an indexing system used by the Virginia Department of Environmental Quality.

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Virginia are shown in figures 4, 5, 6, and 7.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the current water year, and a graph of the water levels for the current water year or other selected period. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level. A hydrograph for a selected period of record follows each water-level table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Remark Codes

The following remark codes may appear with the ground-water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.)

DEFINITION OF TERMS

Terms related to water quality and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ±1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C ±0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ±1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram ($\mu\text{g}/\text{g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, μ /L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O₂/(m².time)] for periphyton and macrophytes and [mg O₂/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1995, is called the "1995 water year."

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Federal Center, Box 25286, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. Water temperature--influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. Application of seismic-refraction techniques to hydrologic studies, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. Borehole geophysics applied to ground-water investigations, by W. Scott Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. J. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. Measurement of time of travel in streams by dye tracing, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. Discharge ratings at gaging stations, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

- 3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. Computation of continuous records of streamflow, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. Use of flumes in measuring discharge, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A-15. 1984. 48 pages.
- 3-A16. Measurement of discharge using tracers, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A-16. 1985. 52 pages.
- 3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. Determination of stream reaeration coefficients by use of tracers, by F. A. Kilpatrick, R. E. Rathburn, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. Levels of streamflow gaging stations, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
- 3-A20. Simulation of soluble waste transport and buildup in surface waters using tracers, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1994. 38 pages.
- 3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programmed test for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. Regression modeling of ground-water flow, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems, by R. L. Cooley. USGS--TWRI Book 3, Chapter B4. 1995. 8 pages.
- 3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow, by Eliezer J. Wexler: USGS--TWRI Book 3, Chapter B7. 1995. 90 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for the determination of organic substances in water and fluvial sediments, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by L. J. Britton and P. E. Greenson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. A modular three-dimensional finite-difference ground-water flow model, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems. Part 1: Model Description and User's Manual, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1995. 136 pages.
- 6-A4. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems. Part 2: Derivation of finite-element equations and comparisons with analytical solutions, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems. Part 3: Design philosophy and programming details, by L. J. Torak: USGS--TWRI Book 6, Chapter A5. 1995. 243 pages.
- 7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A model for simulation of flow in singular and interconnected channels, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. Installation and service manual for U.S. Geological Survey manometers, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

SELECTED U.S. GEOLOGICAL SURVEY REPORTS ON WATER RESOURCES IN VIRGINIA

Listed below is a selection of reports on water resources in Virginia which are available through the Virginia District at the U.S. Geological Survey, WRD, 3600 West Broad Street, Room 606, Richmond, Virginia 23230.

An index of geophysical logging in Virginia by the U.S. Geological Survey, by M. P. Mulheren, J. D. Larson, and H. T. Hopkins: U.S. Geological Survey Open-File Report 82-432. 1982. 34 pages.

Annual maximum stages and discharges of selected streams in Virginia through 1990, by B. J. Prugh, Jr., E. H. Nuckels, and C. G. Humphrey: U.S. Geological Survey Open-File Report 90-587. 1991. 442 pages.

Assessment of ground-water contamination from a leaking underground storage tank at a Defense Supply Center near Richmond, Virginia, by W. G. Wright and J. D. Powell: U.S. Geological Survey Water-Resources Investigations Report 90-4091. 1990. 38 pages.

Availability and quality of ground water in the Piedmont province of Virginia, by J. D. Powell and J. M. Abe: U.S. Geological Survey Water-Resources Investigations Report 85-4235. 1985. 33 pages.

Base-flow characteristics of streams in the Valley and Ridge, Blue Ridge, and Piedmont physiographic provinces of Virginia, by D. L. Nelms, G. E. Harlow, Jr., and D. C. Hayes: U.S. Geological Survey Open-File Report 95-298. 1995. 52 pages.

Compilation of surface-water and water-quality data-collection sites on selected streams in Virginia, by B. J. Prugh, Jr. and C. G. Humphrey: U.S. Geological Survey Open-File Report 93-462. 1994. 645 pages.

Conceptualization and analysis of ground-water flow system in the Coastal Plain of Virginia and adjacent parts of Maryland and North Carolina, by J. F. Harsh and R. J. Laczniak: U.S. Geological Survey Professional Paper 1404-F. 1990. 100 pages.

Documentation of a multiple-technique computer program for plotting major-ion composition of natural waters, by L. I. Briel: U.S. Geological Survey Open-File Report 93-74. 1994.

Documentation of geographic-information-system coverages and data-input files used for analysis of the geohydrology of the Virginia Coastal Plain, by M. J. Focazio and T. B. Samsel, III: U.S. Geological Survey Water-Resources Investigations Report 93-4015. 1994. 53 pages.

Effects of fracturing on well yields in the coalfield areas of Wise and Dickenson Counties, southwestern Virginia, by W. G. Wright: U.S. Geological Survey Water-Resources Investigations Report 85-4061. 1985. 21 pages.

Estimating net drawdown resulting from episodic withdrawals at six well fields in the Coastal Plain physiographic province of Virginia, by M. J. Focazio and G. K. Speiran: U.S. Geological Survey Water-Resources Investigations Report 93-4159. 1994. 21 pages.

Evaluation of municipal withdrawals from the confined aquifers of southeastern Virginia, by D. L. Richardson, R. J. Laczniak, and P. A. Hamilton: U.S. Geological Survey Open-File Report 88-723. 1988. 50 pages.

Flood of November 1985 in West Virginia, Pennsylvania, Maryland, and Virginia, by J. B. Lescinsky: U.S. Geological Survey Open-File Report 86-486. 1987. 33 pages.

Floods in West Virginia, Virginia, Pennsylvania, and Maryland, November 1985, by D. H. Carpenter: U.S. Geological Survey Water-Resources Investigations Report 88-4213. 1990. 86 pages.

Geohydrology and the occurrence of volatile organic compounds in ground water, Culpeper basin of Prince William County, Virginia, by D. L. Nelms and D. L. Richardson: U.S. Geological Survey Water-Resources Investigations Report 90-4032. 1991. 94 pages.

Ground water in Virginia: Use during 1990, availability, and resource information needs, by McFarland, E. R. and Focazio, M. J.: U.S. Geological Survey Open-File Report 94-114. 1 page.

Ground-water availability along the Blue Ridge Parkway, Virginia, by H. T. Hopkins: U.S. Geological Survey Water-Resources Investigations Report 84-4168. 1985. 154 pages.

Ground-water contamination and movement at the Defense General Supply Center, Richmond, Virginia, by J. D. Powell, W. G. Wright, D. L. Nelms, and R. J. Ahlin: U.S. Geological Survey Water-Resources Investigations Report 90-4113. 1991. 36 pages.

Ground-water concerns for the Eastern Shore, Virginia, by D. L. Richardson: U.S. Geological Survey Open-File Report 93-93. 1994. 4 pages (Water-Resources Notes).

Ground-water discharge from the Coastal Plain of Virginia, by D. L. Richardson: U.S. Geological Survey Water-Resources Investigations Report 93-4191. 1995.

Ground-water hydrology and quality in the Valley and Ridge and Blue Ridge physiographic provinces of Clarke County, Virginia, by W. G. Wright: U.S. Geological Survey Water-Resources Investigations Report 90-4134. 1991. 61 pages.

Ground-water use and levels in the southern Coastal Plain of Virginia, by J. D. Larson and R. J. Laczniaik: U.S. Geological Survey Open-File Report 91-187. 1991. 165 pages.

Ground-water withdrawals from the confined aquifers in the Coastal Plain of Virginia, 1891-1983, by T. K. Kull and R. J. Laczniaik: U.S. Geological Survey Water-Resources Investigations Report 87-4049. 1987. 37 pages.

Guide to obtaining U.S. Geological Survey information, by K. Dodd, H. K. Fuller, and P. F. Clarke: U.S. Geological Survey Circular 900. 1985. 35 pages.

Hydraulic characteristics of, and ground-water flow in, coal-bearing rocks of southwestern Virginia, by G. E. Harlow, Jr. and G. D. LeCain: U.S. Geological Survey Water Supply Paper 2388. 1994. 36 pages.

Hydrogeologic and water-quality data for the Explosive Experimental Area, Naval Surface Warfare Center, Dahlgren Site, Dahlgren, Virginia, by E. C. Hammond and C. F. Bell: U.S. Geological Survey Open-File Report 95-386. 1995. 67 pages.

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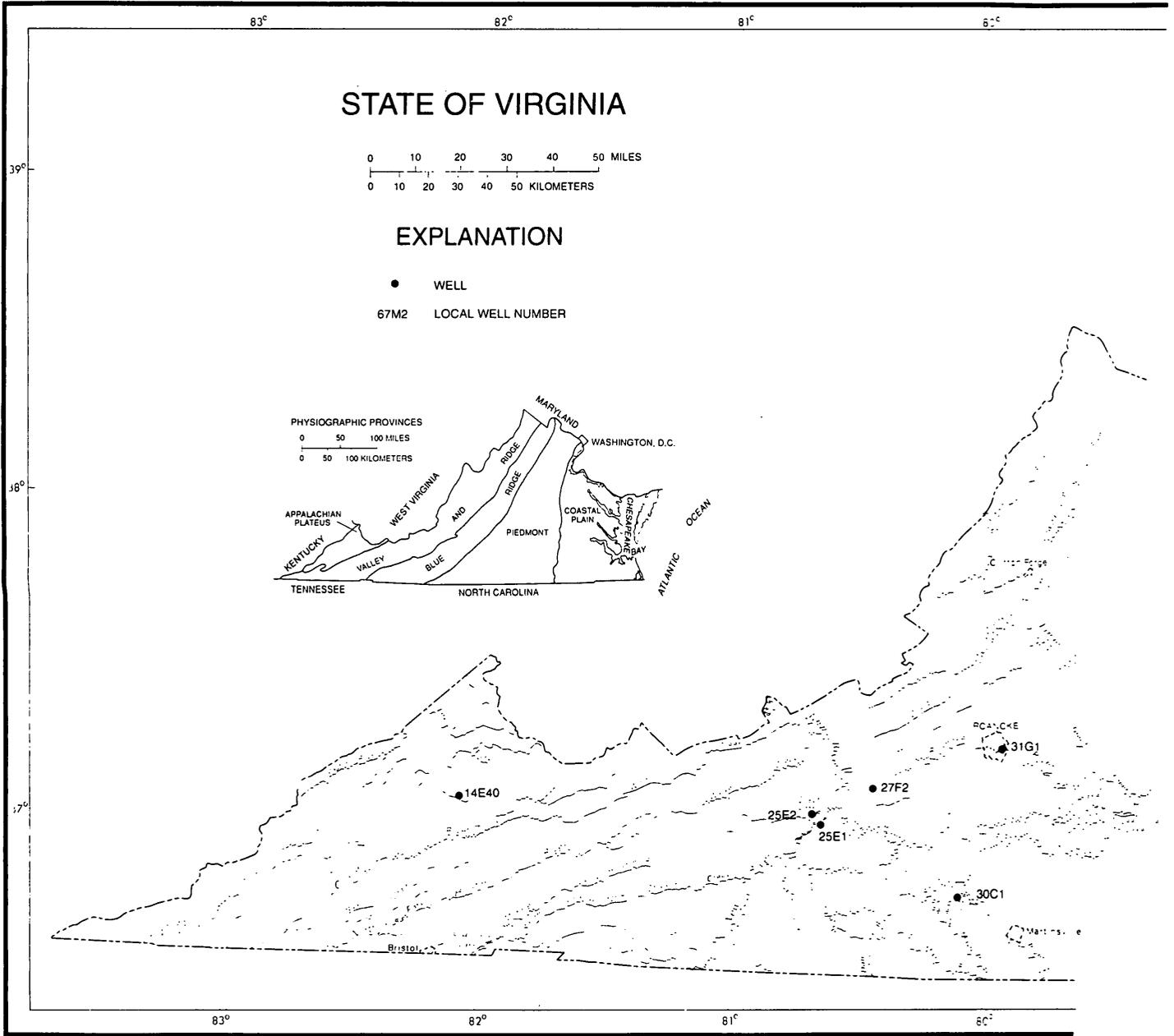
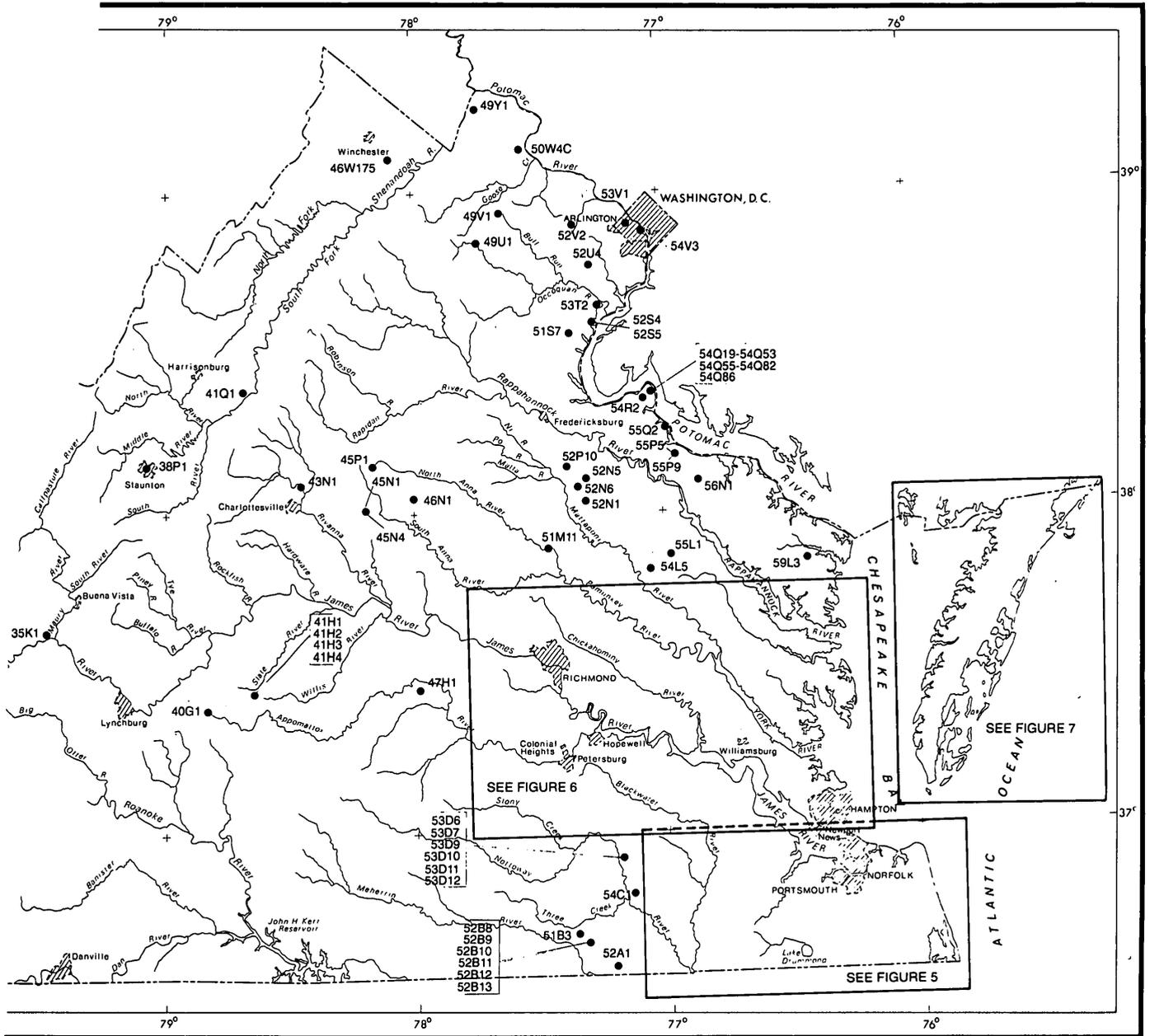


Figure 4. Location of ground-water observation wells.



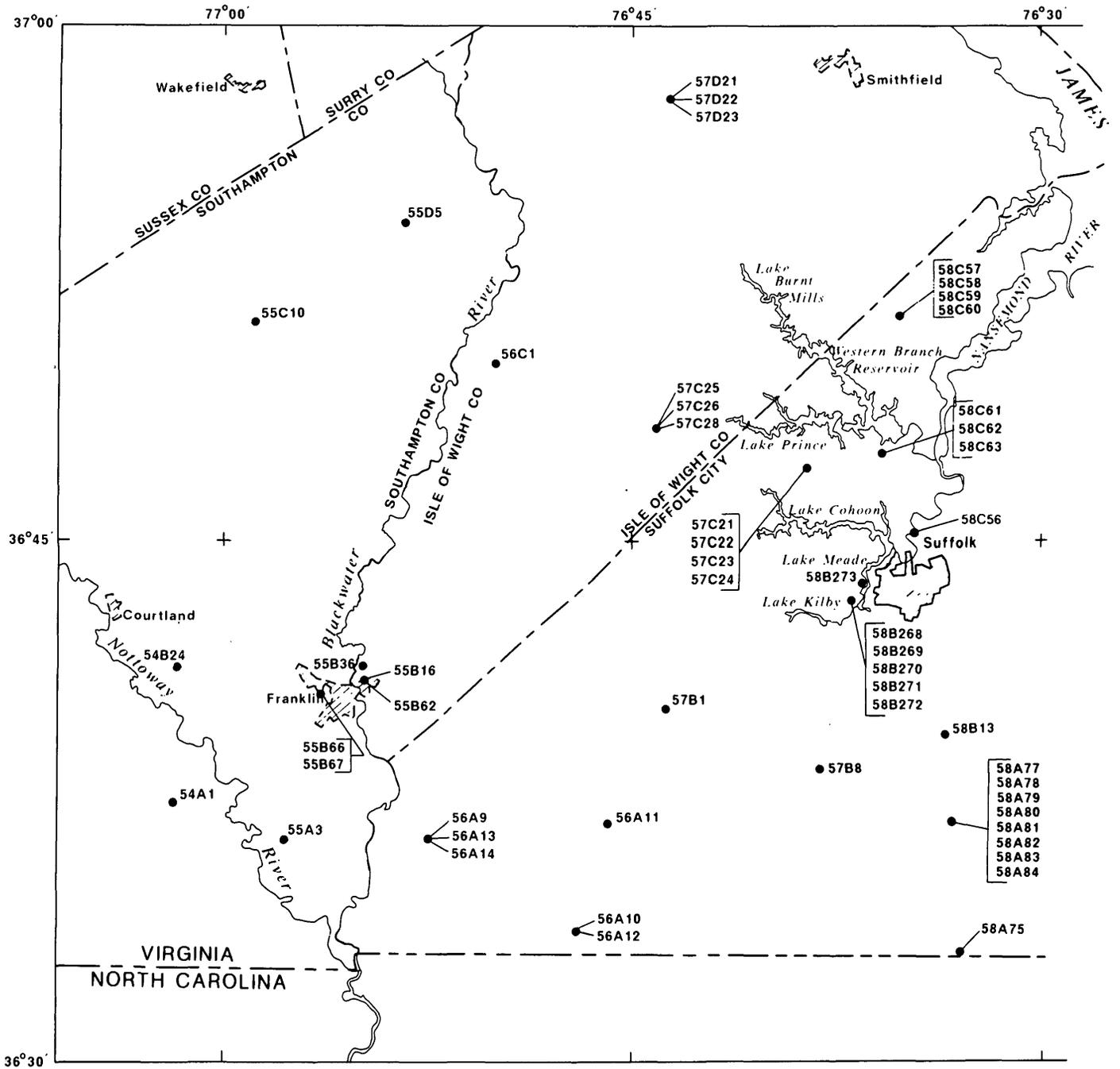
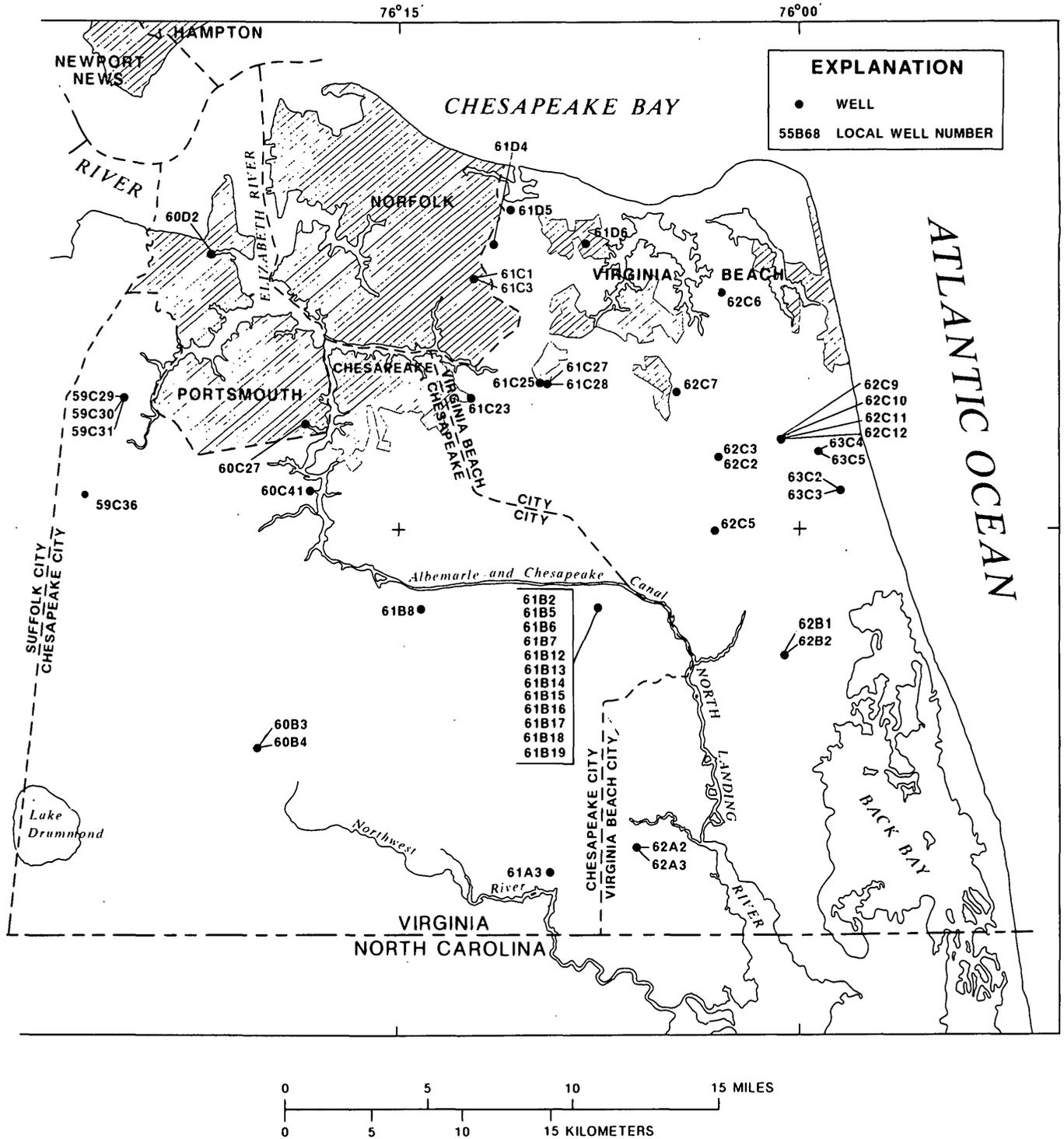


Figure 5. Location of ground-water observation wells in southeastern Virginia.



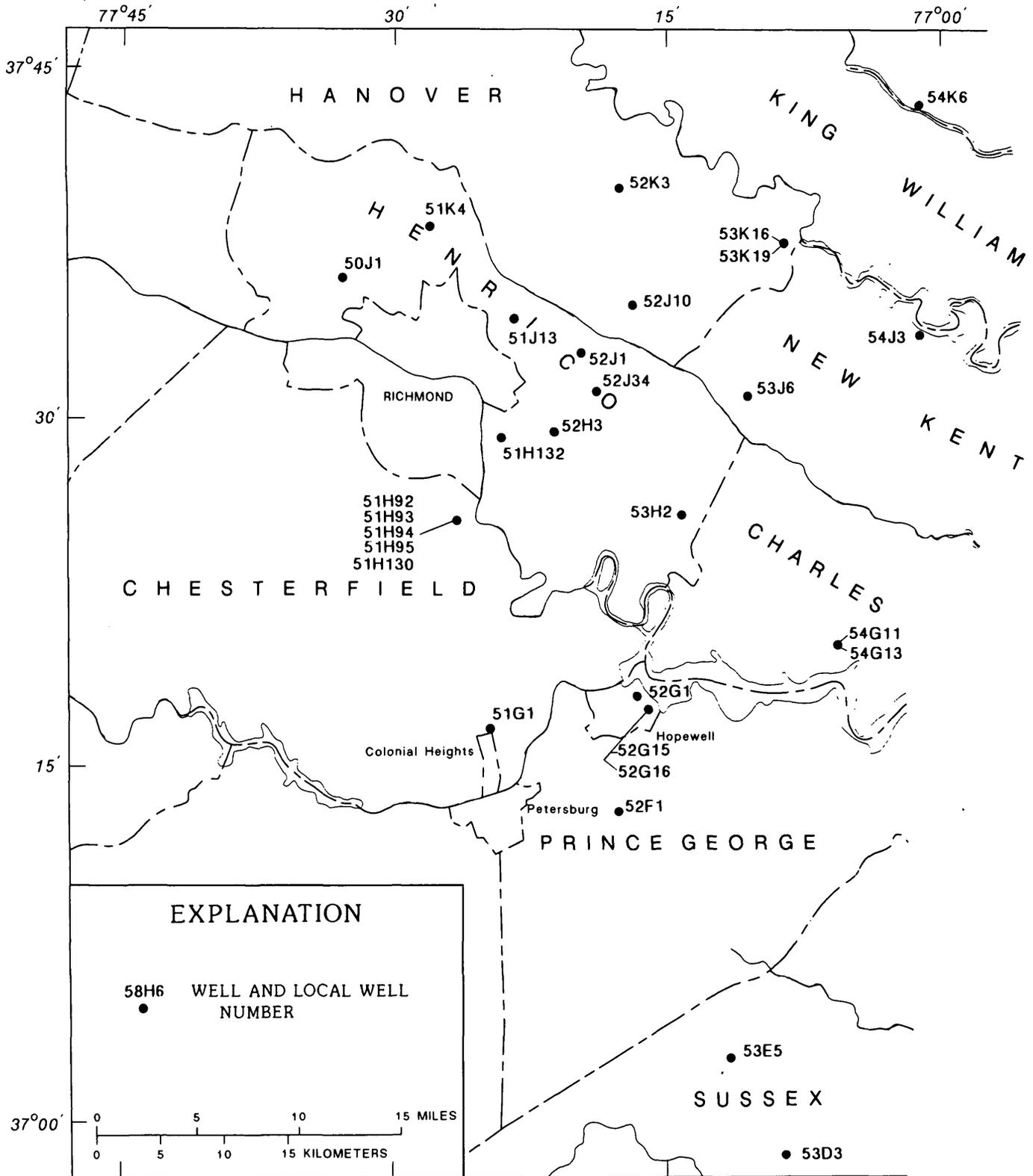


Figure 6. Location of ground-water observation wells on York-James peninsula and vicinity.

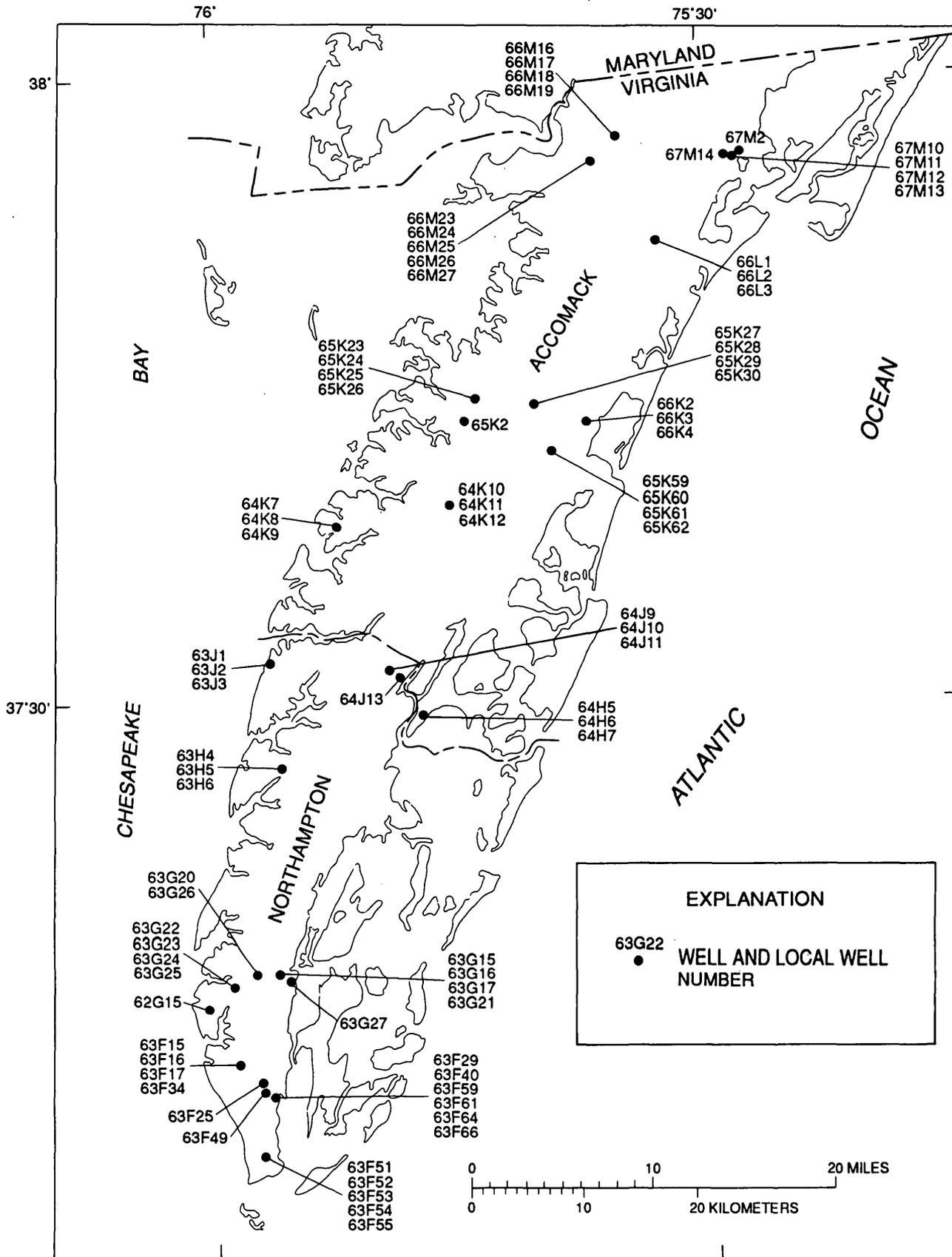


Figure 7. Location of ground-water observation wells on Delmarva peninsula.

GROUND-WATER-LEVEL RECORDS

GROUND-WATER LEVELS

ACCOMACK COUNTY

372922076470101. Local number, 64H 5 SOW 102C.

LOCATION.--Lat 37°29'21", long 75°47'05", Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 306 ft, screened 296 to 306 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 1, 1988; 1.1 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

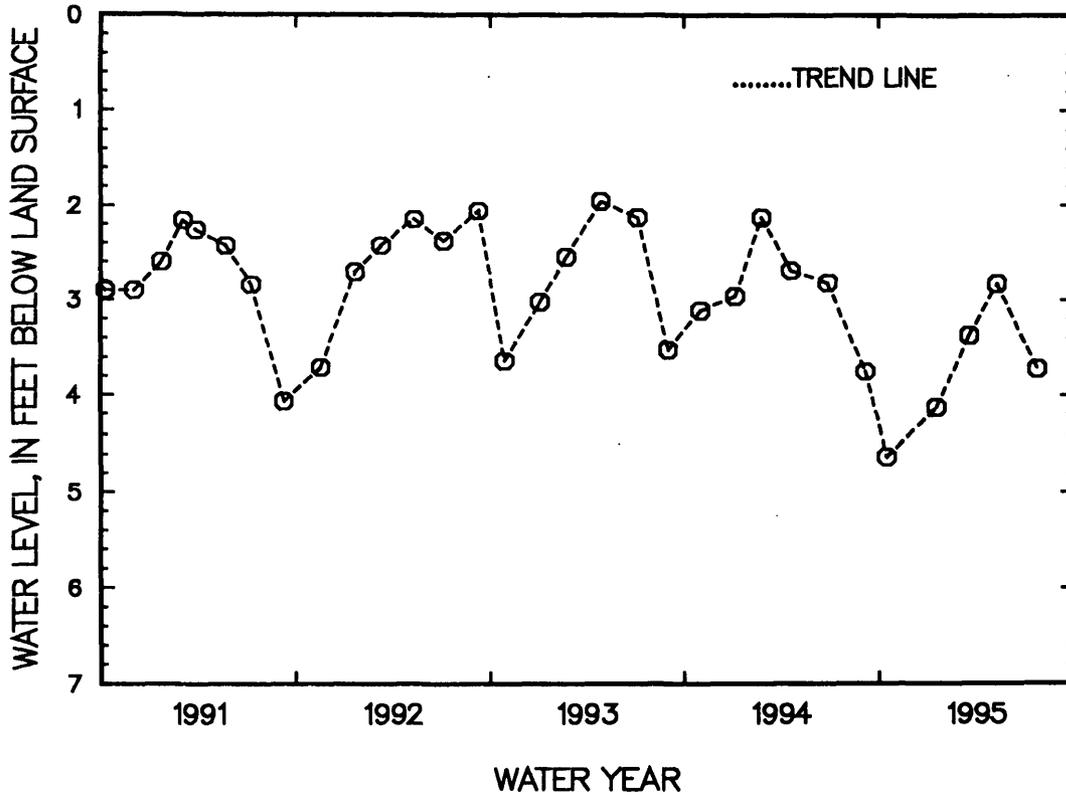
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.70 ft below land-surface datum, June 6, 1984; lowest measured, 7.35 ft below land-surface datum, Nov. 1, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	4.63	JAN 18	4.13	MAR 20	3.37	MAY 10	2.83	JUL 24	3.72

WATER YEAR 1995 HIGHEST 2.83 MAY 10, 1995 LOWEST 4.63 OCT 17, 1994



ACCOMACK COUNTY

372905075474002. Local number, 64H 6 SOW 102A.

LOCATION.--Lat 37°29'21", long 75°47'05", Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 154 ft, screened 144 to 154 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

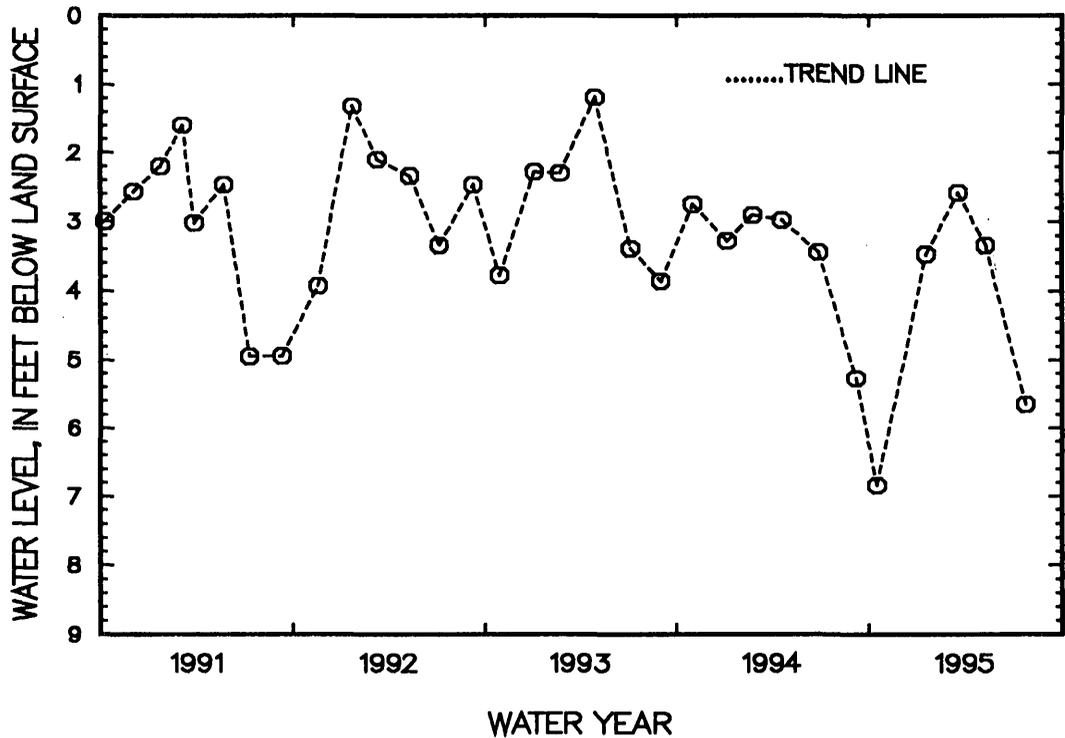
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.33 ft below land-surface datum, Oct. 30, 1984; lowest measured, 9.63 ft below land-surface datum, Sept. 1, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	6.84	JAN 18	3.47	MAR 20	2.58	MAY 10	3.34	JUL 24	5.65

WATER YEAR 1995 HIGHEST 2.58 MAR 20, 1995 LOWEST 6.84 OCT 17, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

372905075474001. Local number, 64H 7 SOW 102B.

LOCATION.--Lat 37°29'21", long 75°47'05", Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

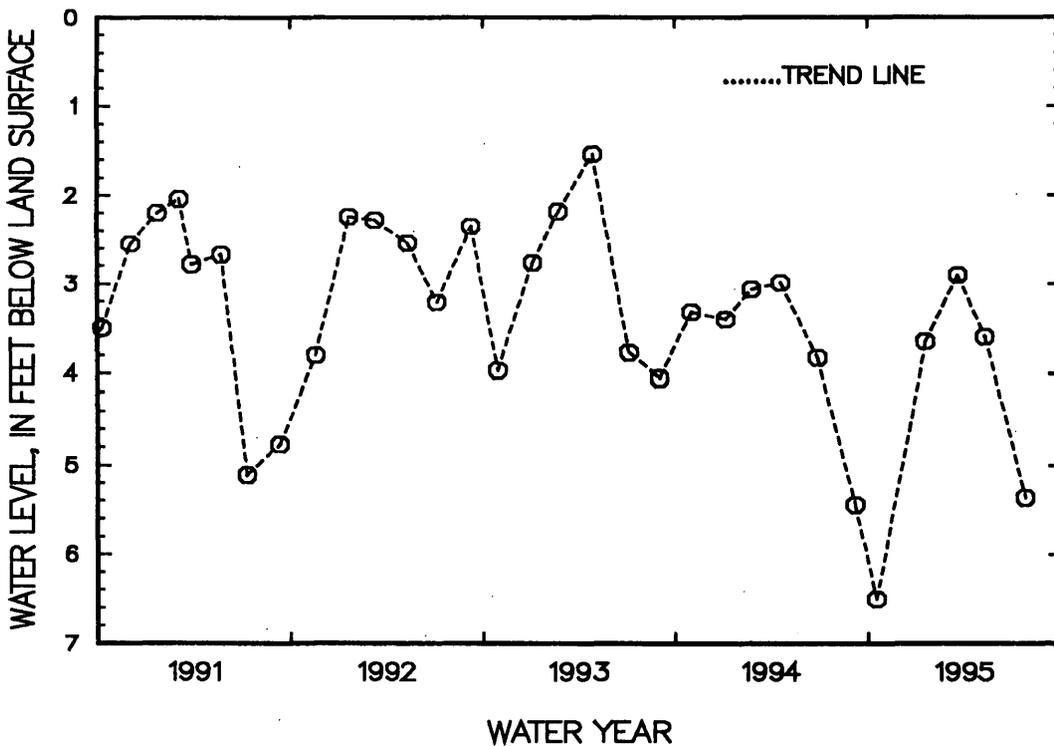
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.19 ft below land-surface datum, July 10, 1984; lowest measured, 8.76 ft below land-surface datum, Nov. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	6.50	JAN 18	3.65	MAR 20	2.90	MAY 10	3.60	JUL 24	5.36

WATER YEAR 1995 HIGHEST 2.90 MAR 20, 1995 LOWEST 6.50 OCT 17, 1994



ACCOMACK COUNTY

373845075522501. Local number, 64K 7 SOW 106C.

LOCATION.--Lat 37°38'45", long 75°52'25", Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 176 ft, screened 166 to 176 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 3 ft above sea level, from topographic map. Measuring point: Top of casing, 0.73 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

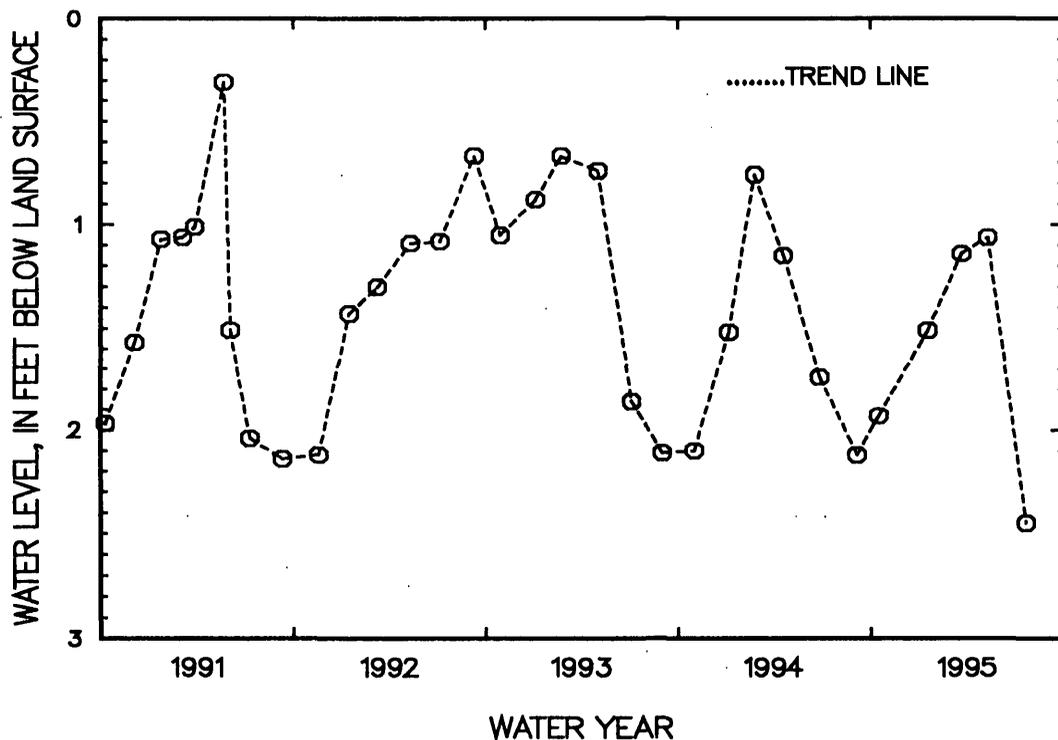
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.31 ft below land-surface datum, May 22, 1991; lowest measured, 2.35 ft below land-surface datum, July 16, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	1.93	JAN 17	1.51	MAR 22	1.14	MAY 10	1.06	JUL 20	1.78

WATER YEAR 1995 HIGHEST 1.06 MAY 10, 1995 LOWEST 1.93 OCT 17, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

373845075522503. Local number, 64K 8 SOW 106B.

LOCATION.--Lat 37°38'45", long 75°52'25", Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 95 ft, screened 85 to 95 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 3 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality. - Water Division.

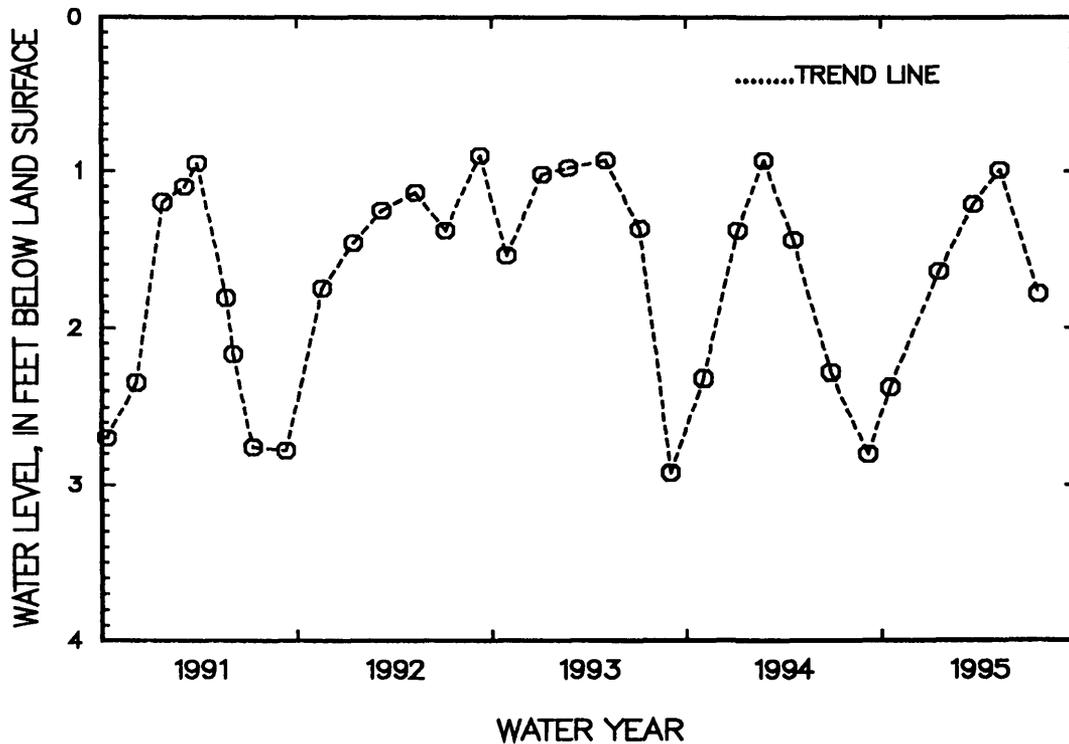
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.70 ft below land-surface datum, Apr. 21, 1983; lowest measured, 2.92 ft below land-surface datum, Sept. 2, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	2.37	JAN 17	1.64	MAR 22	1.21	MAY 10	0.99	JUL 20	2.45

WATER YEAR 1995 HIGHEST 0.99 MAY 10, JUL 20, 1995 LOWEST 2.45 JUL 20, 1995



ACCOMACK COUNTY

373845075522502. Local number, 64K 9 SOW 106A.

LOCATION.--Lat 37°38'45", long 75°52'25", Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 37 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is approximately 3 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

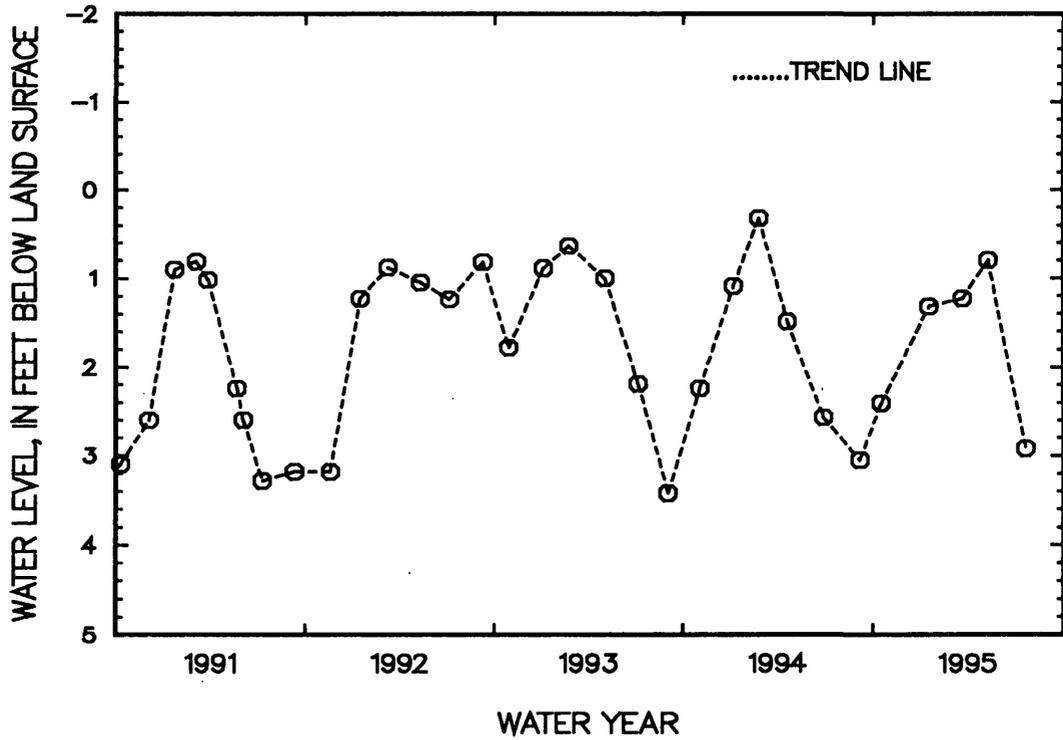
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.32 ft below land-surface datum, Feb. 24, 1994; lowest measured, 3.46 ft below land-surface datum, Sept. 14, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	2.41	JAN 17	1.32	MAR 22	1.23	MAY 10	0.80	JUL 20	2.92

WATER YEAR 1995 HIGHEST 0.80 MAY 10, 1995 LOWEST 2.92 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

373932075452701. Local number, 64K 10 SOW 108A.

LOCATION.--Lat 37°39'32", long 75°45'27", Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 50 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above sea level, from topographic map. Measuring point: Top of casing, 0.22 ft above land-surface datum prior to Mar. 1, 1988; 0.75 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

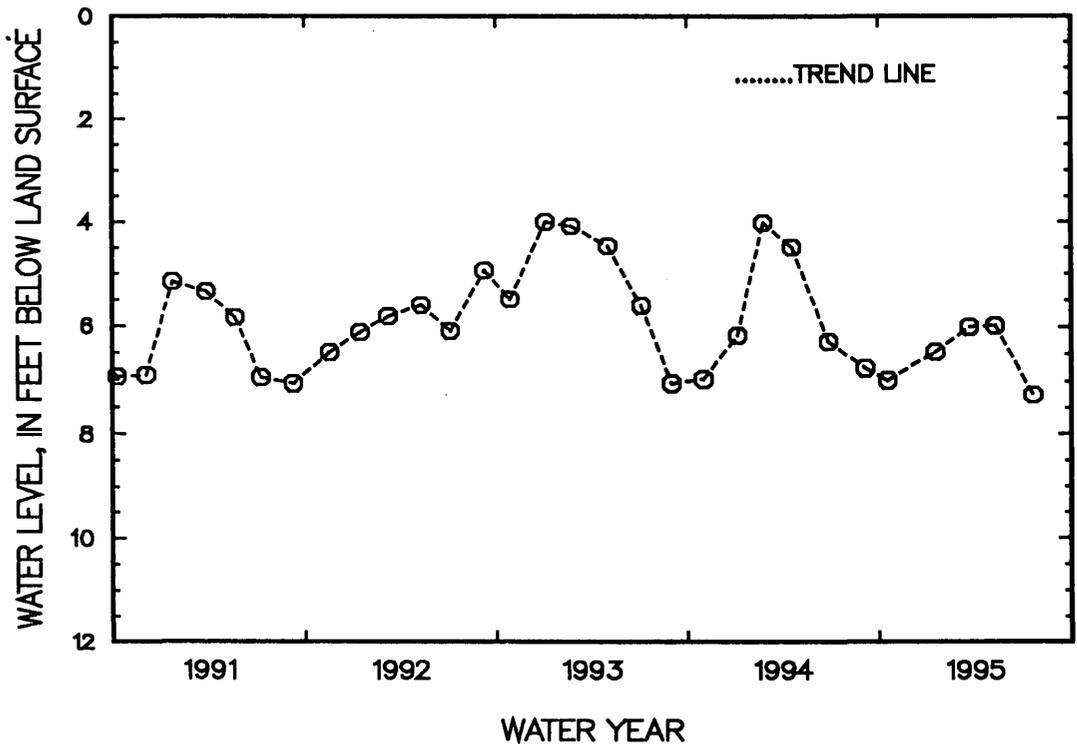
PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft below land-surface datum, Apr. 21, 1983; lowest measured, 15.06 ft below land-surface datum, Jan. 30, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	6.98	JAN 17	6.47	MAR 22	6.00	MAY 10	5.98	JUL 20	7.25

WATER YEAR 1995 HIGHEST 5.98 MAY 10, 1995 LOWEST 7.25 JUL 20, 1995



ACCOMACK COUNTY

373932075452702. Local number, 64K 11 SOW 108B.

LOCATION.--Lat 37°39'32", long 75°45'27", Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 180 ft, screened 170 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

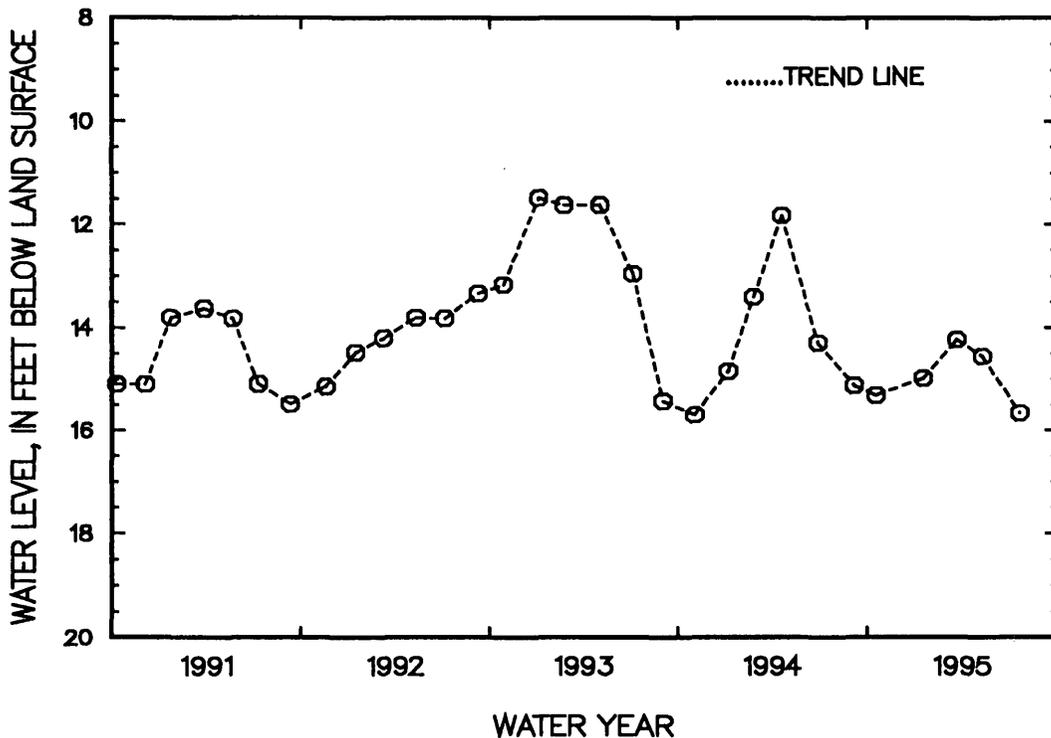
PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.03 ft below land-surface datum, Aug. 1, 1979; lowest measured, 16.24 ft below land-surface datum, Nov. 10, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	15.31	JAN 17	14.98	MAR 22	14.23	MAY 10	14.56	JUL 20	15.66

WATER YEAR 1995 HIGHEST 14.23 MAR 22, 1995 LOWEST 15.66 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

373932075452703. Local number, 64K 12 SOW 108C.

LOCATION.--Lat 37°39'32", long 75°45'27", Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 284 ft, screened 274 to 284 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above sea level, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

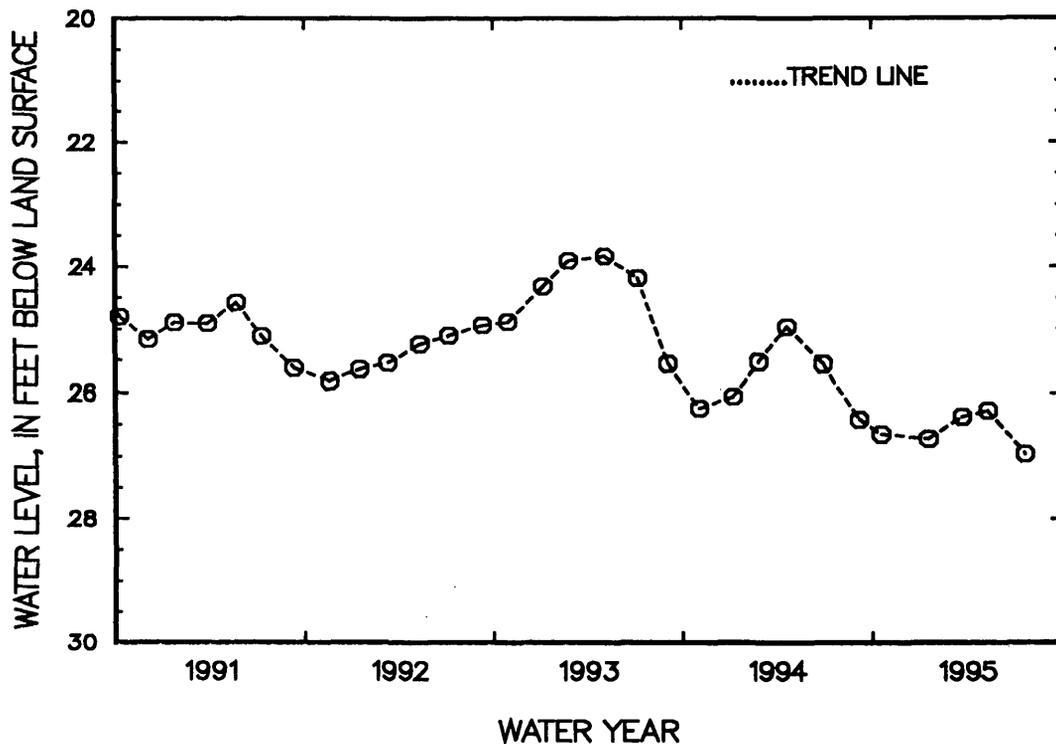
PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.50 ft below land-surface datum, Feb. 2, 1984; lowest measured, 26.96 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	26.65	JAN 17	26.72	MAR 22	26.37	MAY 10	26.28	JUL 20	26.96

WATER YEAR 1995 HIGHEST 26.28 MAY 10, 1995 LOWEST 26.96 JUL 20, 1995



ACCOMACK COUNTY

374324075443201. Local number, 65K 2 SOW 058.

LOCATION.--Lat 37°43'24", long 75°44'32", Hydrologic Unit 02080110, 100 ft southeast of State Highway 658, 0.3 mi northeast of intersection of State Highways 653 and 658, and 0.9 mi north of Onancock. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 8 in. to 96.5 ft, diameter 6 in. from 96.5 to 187 ft, depth 187 ft, screened 97.3 to 107 ft, 116 to 126 ft, 135 to 145 ft, 162 to 182 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Aug. 20, 1980, to Oct. 1, 1985, occasional measurement with chalked tape. July 15, 1972, to Aug. 20, 1980, continuous strip-chart recorder. Prior to July 15, 1972, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

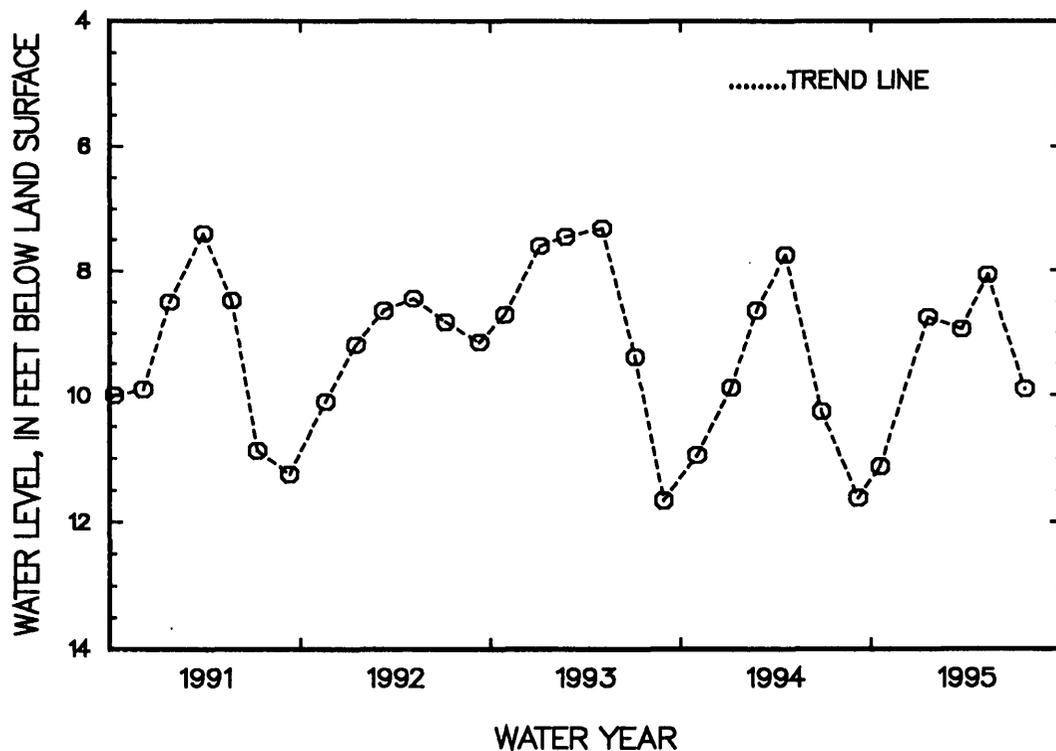
PERIOD OF RECORD.--February 1972 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.95 ft below land-surface datum, Feb. 8, 1972; lowest measured, 11.66 ft below land-surface datum, Aug. 30, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	11.13	JAN 17	8.75	MAR 22	8.94	MAY 10	8.07	JUL 20	9.90

WATER YEAR 1995 HIGHEST 8.07 MAY 10, 1995 LOWEST 11.13 OCT 18, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

374442075432501. Local number, 65K 23 SOW 109C.

LOCATION.--Lat 37°44'28", long 75°43'28", Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 290 ft, screened 280 to 290 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

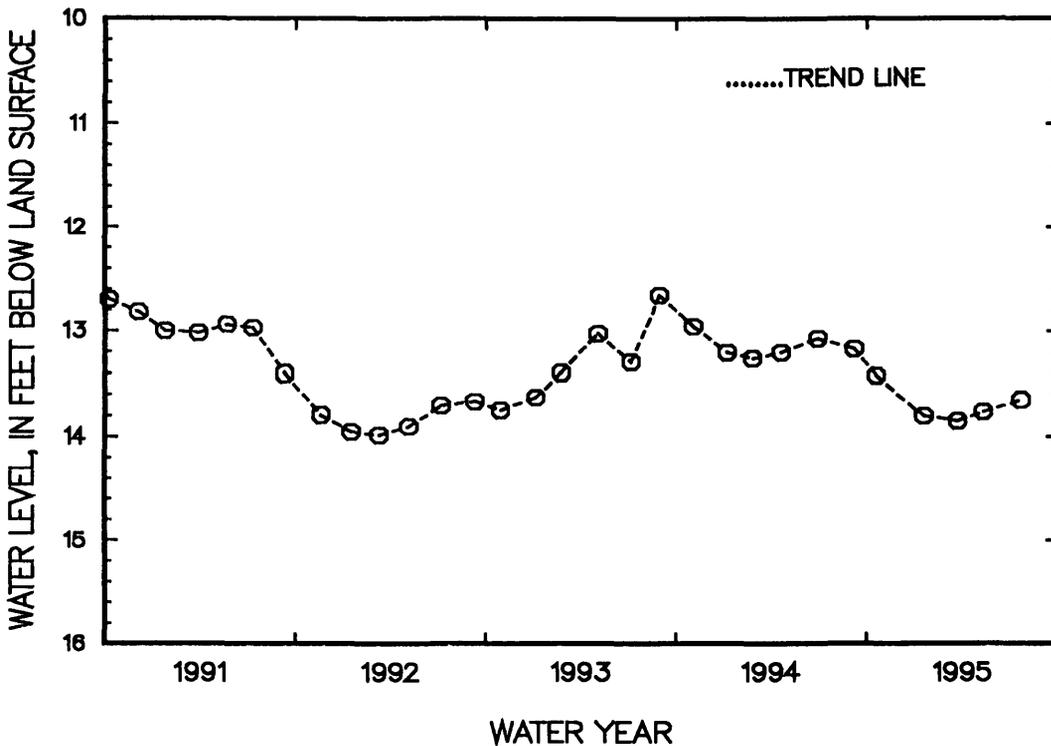
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.36 ft below land-surface datum, Dec. 30, 1982; lowest measured, 16.65 ft below land-surface datum, Mar. 12, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	13.43	JAN 17	13.80	MAR 22	13.85	MAY 10	13.76	JUL 20	13.65

WATER YEAR 1995 HIGHEST 13.43 OCT 18, 1994 LOWEST 13.85 MAR 22, 1995



ACCOMACK COUNTY

374442075432502. Local number, 65K 24 SOW 109A.

LOCATION.--Lat 37°44'42", long 75°43'25", Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

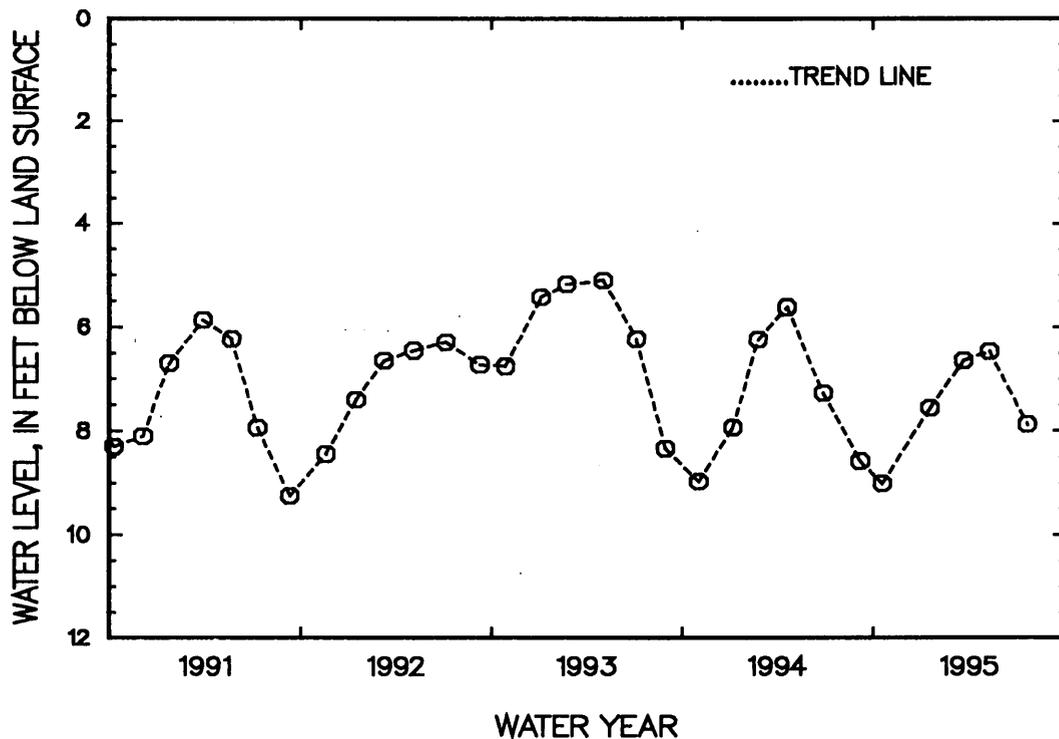
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.35 ft below land-surface datum, Apr. 21, 1983; lowest measured, 9.24 ft below land-surface datum, Sept. 10, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	9.01	JAN 17	7.56	MAR 22	6.64	MAY 10	6.47	JUL 20	7.88

WATER YEAR 1995 HIGHEST 6.47 MAY 10, 1995 LOWEST 9.01 OCT 18, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

374442075432503. Local number, 65K 25 SOW 109B.

LOCATION.--Lat 37°44'42", long 75°43'25", Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 228 ft, screened 218 to 228 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

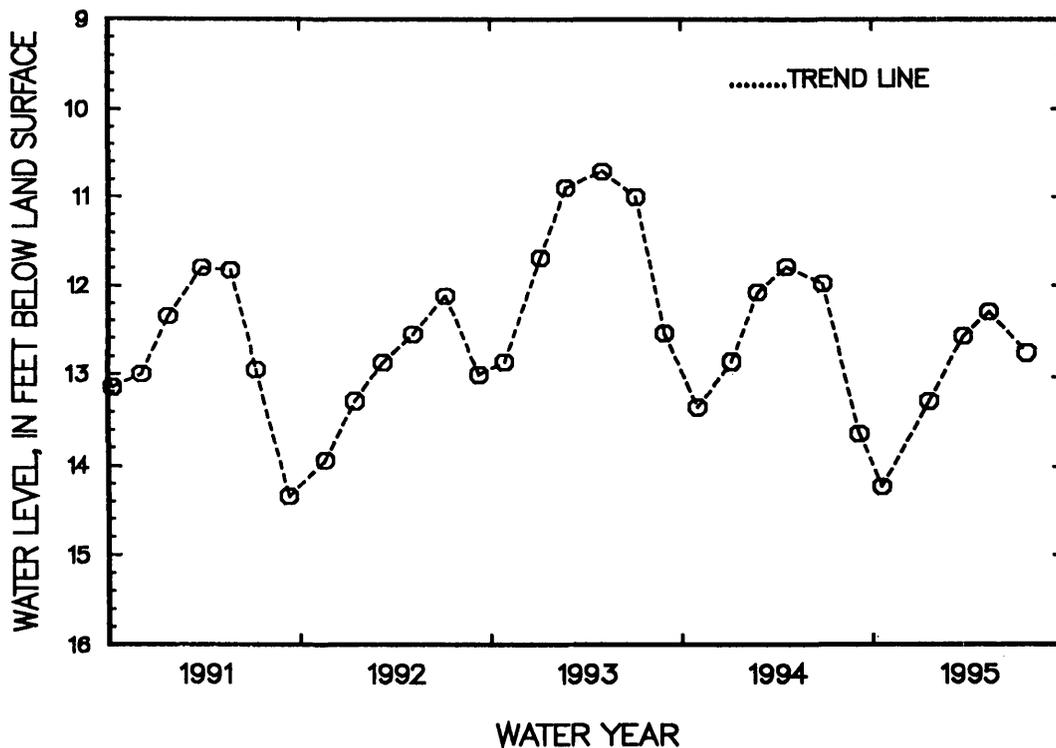
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.15 ft below land-surface datum, June 20, 1984; lowest measured, 14.34 ft below land-surface datum, Sept. 10, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	14.23	JAN 17	13.27	MAR 22	12.57	MAY 10	12.30	JUL 20	12.75

WATER YEAR 1995 HIGHEST 12.30 MAY 10, 1995 LOWEST 14.23 OCT 18, 1994



ACCOMACK COUNTY

374442075432504. Local number, 65K 26 SOW 109S.

LOCATION.--Lat 37°44'42", long 75°43'25", Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 25 ft, screened 15 to 25 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of casing, 0.37 ft above land-surface datum prior to Mar. 1, 1988; 0.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

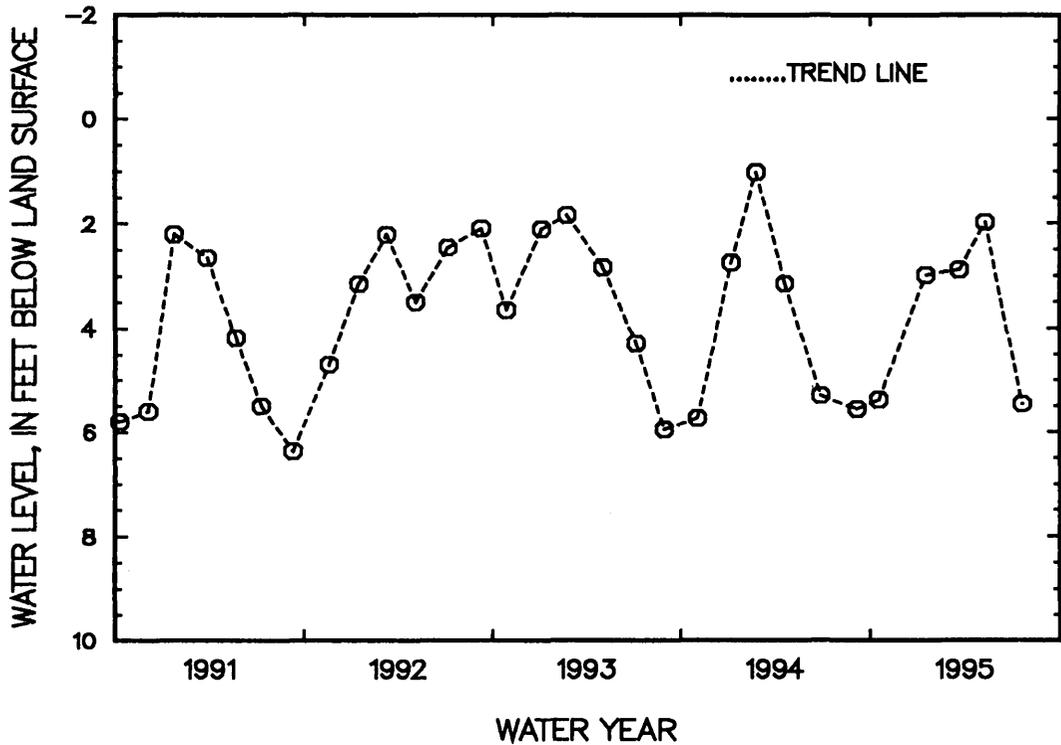
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.03 ft below land-surface datum, Feb. 24, 1994; lowest measured, 6.57 ft below land-surface datum, Oct. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	5.38	JAN 17	2.99	MAR 22	2.88	MAY 10	1.98	JUL 20	5.46

WATER YEAR 1995 HIGHEST 1.98 MAY 10, 1995 LOWEST 5.46 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

374425075400001. Local number, 65K 27 SOW 114A.

LOCATION.--Lat 37°44'25", long 75°40'00", Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 160 ft, screened 150 to 160 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.4 ft above land-surface datum prior to Feb. 27, 1990; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

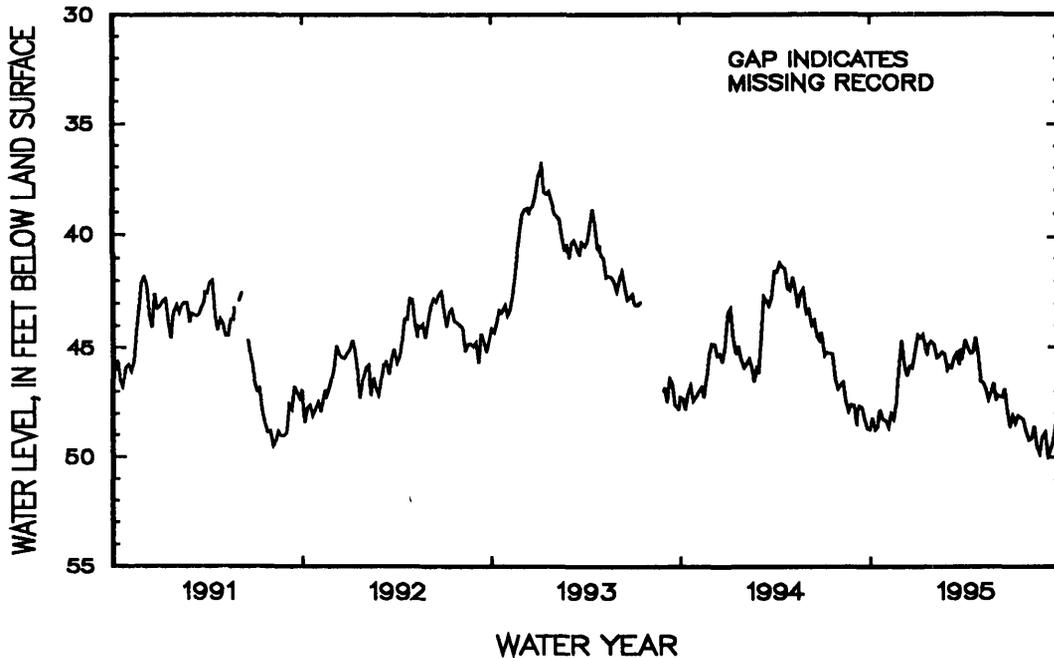
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.59 ft below land-surface datum, June 6, 1984; lowest measured, 49.98 ft below land-surface datum, Nov. 6, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.22	48.64	45.85	44.58	45.47	45.94	45.00	46.60	47.22	48.46	49.16	49.93
10	48.75	48.05	46.31	44.43	45.37	45.50	45.27	46.90	47.28	48.13	48.59	49.66
15	48.62	48.28	45.86	---	45.22	45.27	45.22	47.37	46.88	48.21	49.52	49.27
20	47.90	47.53	45.94	44.90	45.30	45.80	44.53	47.04	47.91	48.29	49.82	48.50
25	48.28	45.74	45.27	44.73	46.01	45.57	45.31	46.63	48.63	48.81	49.11	49.13
EOM	48.35	44.69	44.45	44.88	45.85	44.67	46.56	47.15	48.13	49.23	48.88	48.93

WATER YEAR 1995 HIGHEST INSTANTANEOUS 43.42 JAN 05, 1995
 LOWEST INSTANTANEOUS 49.93 SEP 04, 05, 1995

DAILY LOW-WATER LEVELS



ACCOMACK COUNTY

374425075400002. Local number, 65K 28 SOW 114B.

LOCATION.--Lat 37°44'25", long 75°40'00", Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 230 ft, screened 220 to 230 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

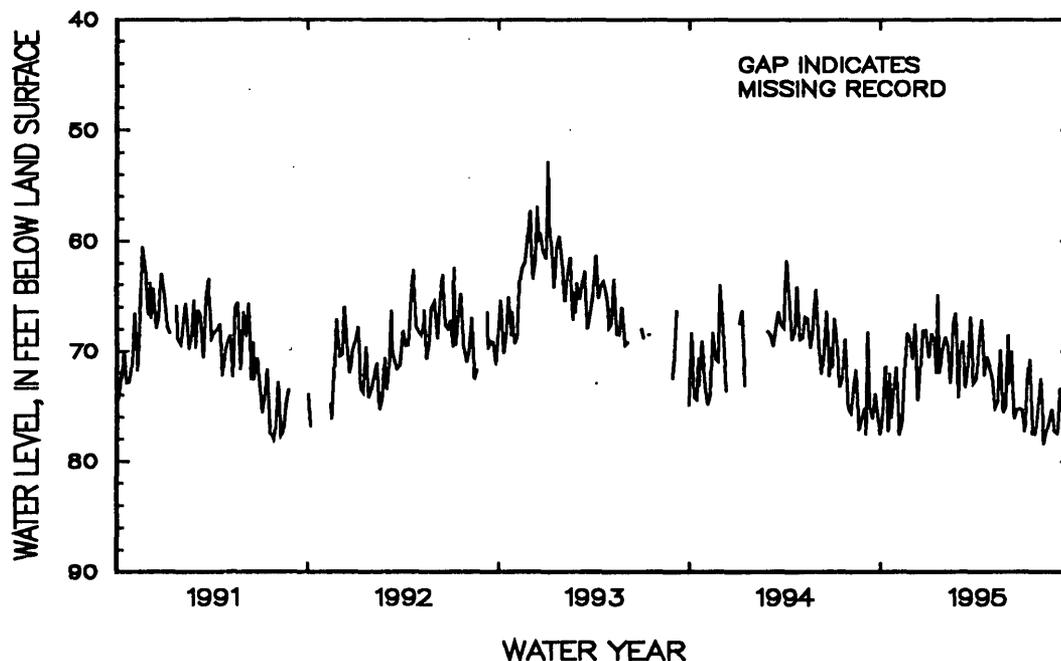
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 49.40 ft below land-surface datum, June 6, 1987; lowest recorded, 77.99 ft below land-surface datum, July 27, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.20	77.60	67.50	68.40	69.55	69.05	69.20	75.10	70.00	72.70	78.45	73.38
10	71.35	76.40	74.45	69.00	72.90	73.30	67.15	74.60	76.15	70.75	77.25	75.50
15	77.25	72.05	71.50	72.00	67.68	71.38	72.20	69.85	75.30	77.50	76.45	78.00
20	76.10	68.35	68.15	72.00	66.55	66.90	70.55	75.55	75.20	77.55	75.30	75.70
25	73.80	68.85	68.10	70.05	74.19	72.92	71.50	75.00	75.30	75.35	77.25	71.95
EOM	71.45	70.70	70.55	68.70	70.25	72.50	72.40	73.00	77.35	72.50	77.45	77.30

WATER YEAR 1995 HIGHEST INSTANTANEOUS 60.95 JAN 02, 1995 LOWEST INSTANTANEOUS 79.05 SEP 03, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ACCOMACK COUNTY

374425075400003. Local number, 65K 29 SOW 114C.

LOCATION.--Lat 37°44'25", long 75°40'00", Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 315 ft, screened 305 to 315 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum prior to Feb. 27, 1990; 1.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

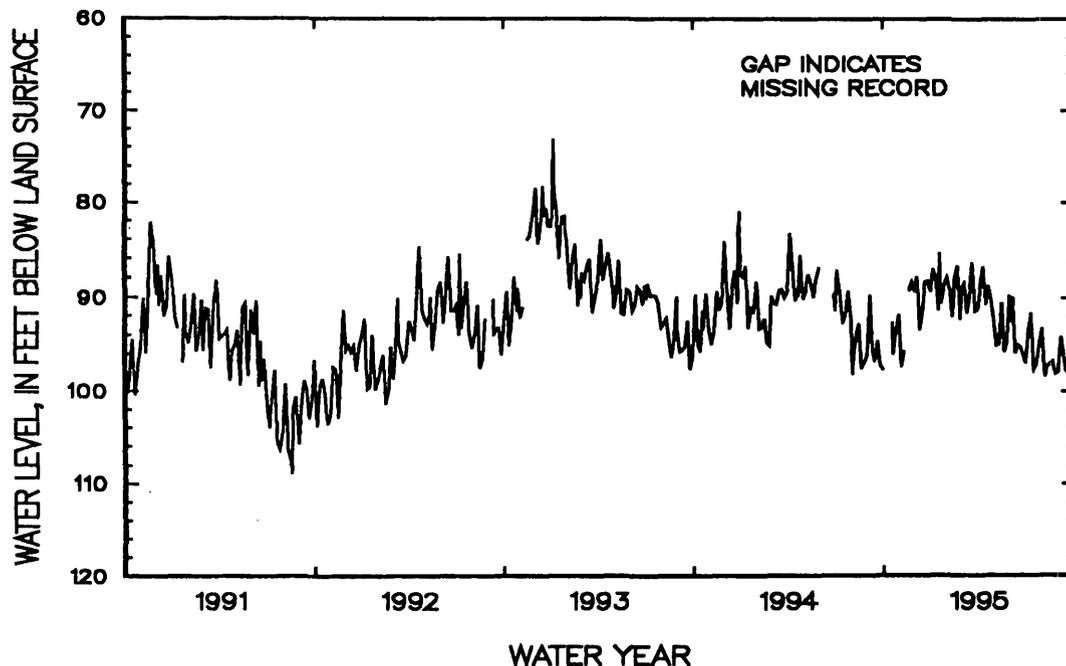
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 71.50 ft below land-surface datum, Feb. 24, 1986; lowest recorded, 108.92 ft below land-surface datum, Aug. 17, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	97.30	87.65	86.85	89.05	88.45	88.50	95.00	89.90	93.45	98.41	94.06
10	---	95.70	93.35	87.95	91.95	91.55	86.60	94.85	95.80	91.55	97.26	96.01
15	---	---	91.45	91.30	87.80	89.85	90.70	90.50	94.95	97.65	97.01	97.96
20	95.95	89.15	88.30	90.55	86.50	86.20	88.70	95.70	95.15	97.16	96.71	95.61
25	93.65	88.30	88.15	88.85	92.30	91.39	90.35	94.70	96.00	95.11	98.06	---
EOM	91.75	89.35	89.35	87.80	89.00	91.15	92.35	92.50	96.90	93.16	97.86	97.41

WATER YEAR 1995 HIGHEST INSTANTANEOUS 81.20 JAN 03, 1995 LOWEST INSTANTANEOUS 99.51 SEP 03, 1995

DAILY LOW-WATER LEVELS



ACCOMACK COUNTY

374425075400004. Local number, 65K 30 SOW 114S.

LOCATION.--Lat 37°44'25", long 75°40'00", Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 40 ft, screened 30 to 40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Mar. 1, 1988; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

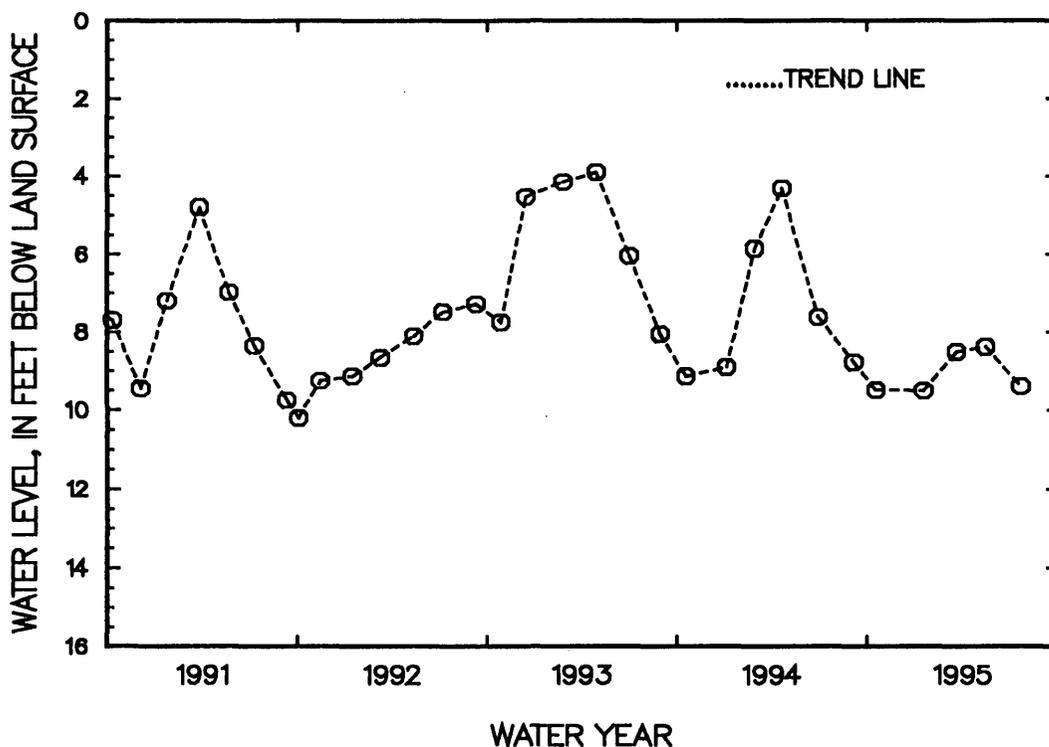
PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.73 ft below land-surface datum, Feb. 27, 1990; lowest measured, 20.10 ft below land-surface datum, Dec. 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	9.48	JAN 17	9.49	MAR 21	8.50	MAY 15	8.38	JUL 20	9.38

WATER YEAR 1995 HIGHEST 8.38 MAY 15, 1995 LOWEST 9.49 JAN 17, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

374314075401402. Local number, 65K 59 SOW 183A.

LOCATION.--Lat 37°43'14", long 75°40'14", Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 250 ft, diameter 2 in. from 250 to 285 ft, depth 285 ft, screened 275 to 285 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 7, 1990, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--May 1990 to current year.

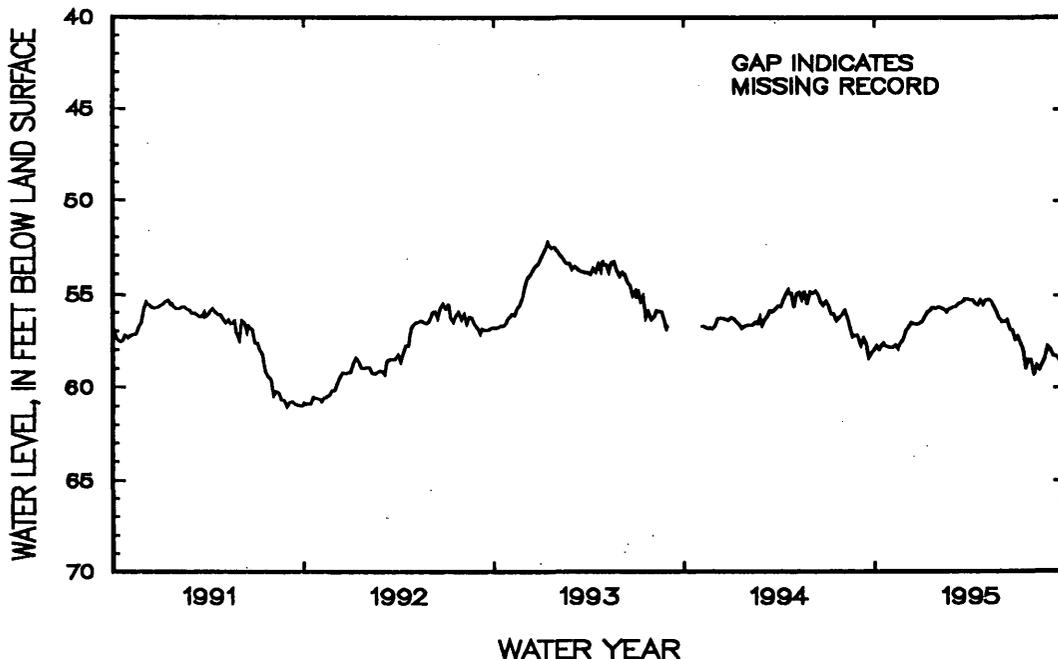
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 52.28 ft below land-surface datum, Jan. 13, 1993; lowest recorded, 61.24 ft below land-surface datum, Sept. 29, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.75	57.82	56.75	56.16	55.73	55.63	55.25	55.21	56.43	57.60	58.80	58.27
10	57.93	57.71	56.50	55.95	55.80	55.45	55.47	55.30	56.35	57.93	59.00	58.28
15	57.69	57.89	56.56	55.87	55.94	55.42	55.54	55.60	56.87	58.98	58.71	58.44
20	57.73	57.56	56.59	55.68	55.77	55.31	55.28	55.89	56.90	58.47	58.40	58.72
25	57.77	57.38	56.54	55.75	55.70	55.18	55.53	56.24	57.39	58.49	57.78	58.73
EOM	57.83	56.93	56.44	55.65	55.65	55.27	55.27	56.45	57.23	59.30	57.93	58.64

WATER YEAR 1995 HIGHEST INSTANTANEOUS 54.94 APR 24, 1995 LOWEST INSTANTANEOUS 59.31 JUL 30, 1995

DAILY LOW-WATER LEVELS



ACCOMACK COUNTY

374314075401403. Local number, 65K 60 SOW 183B.

LOCATION.--Lat 37°43'14", long 75°40'14", Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 210 ft, diameter 2 in. from 210 to 235 ft, depth 235 ft, screened 225 to 235 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

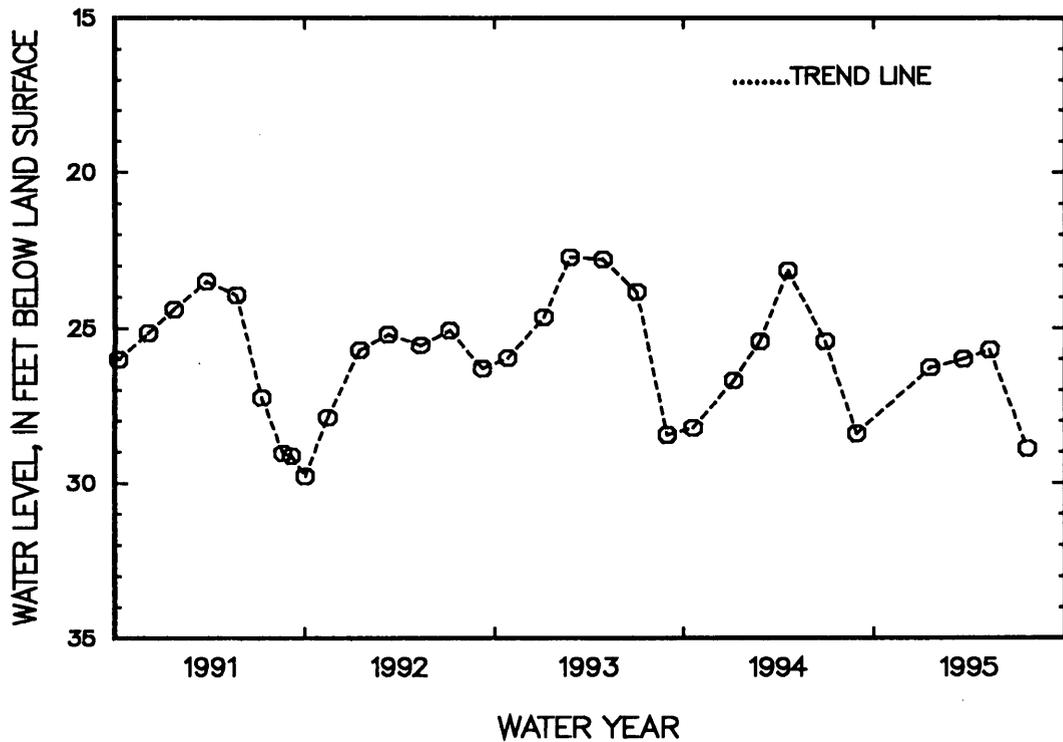
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.50 ft below land-surface datum, May 7, 1990; lowest measured, 29.78 ft below land-surface datum, Oct. 2, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 17	26.27	MAR 21	25.99	MAY 10	25.70	JUL 20	28.89

WATER YEAR 1995 HIGHEST 25.70 MAY 10, 1995 LOWEST 28.89 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

374314075401404. Local number, 65K 61 SOW 183C

LOCATION.--Lat 37°43'14", long 75°40'14", Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 82 ft, diameter 2 in. from 82 to 134 ft, depth 134 ft, screened 124 to 134 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 6, 1990, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--May 1990 to current year.

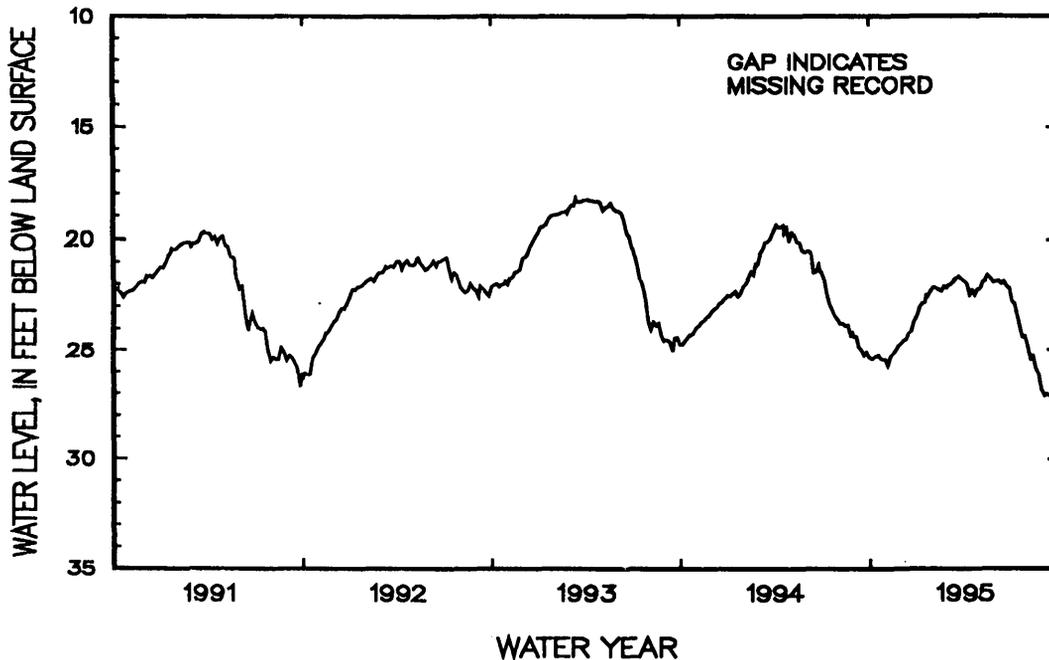
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.20 ft below land-surface datum, May 7, 1990; lowest recorded, 26.70 ft below land-surface datum, Sept. 25, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.42	25.74	24.58	23.03	22.20	22.03	22.02	21.93	21.86	22.89	25.43	27.02
10	25.35	25.33	24.52	22.86	22.26	21.93	22.50	21.86	21.99	23.43	25.31	27.10
15	25.28	25.19	24.22	22.83	22.33	21.76	22.30	21.62	21.89	23.92	25.86	27.29
20	25.36	25.05	24.13	22.57	22.12	21.73	22.50	21.73	22.13	24.42	26.14	27.01
25	25.44	24.82	23.68	22.34	22.19	21.77	22.24	21.93	22.20	24.37	26.83	26.90
EOM	25.44	24.72	23.42	22.15	22.08	21.90	22.23	21.89	22.78	24.90	27.10	27.10

WATER YEAR 1995 HIGHEST INSTANTANEOUS 21.54 MAY 15, 1995
 LOWEST INSTANTANEOUS 27.32 SEP 13, 14, 1995

DAILY LOW-WATER LEVELS



ACCOMACK COUNTY

374314075401405. Local number, 65K 62 SOW 183D.

LOCATION.--Lat 37°43'14", long 75°40'14", Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing; 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

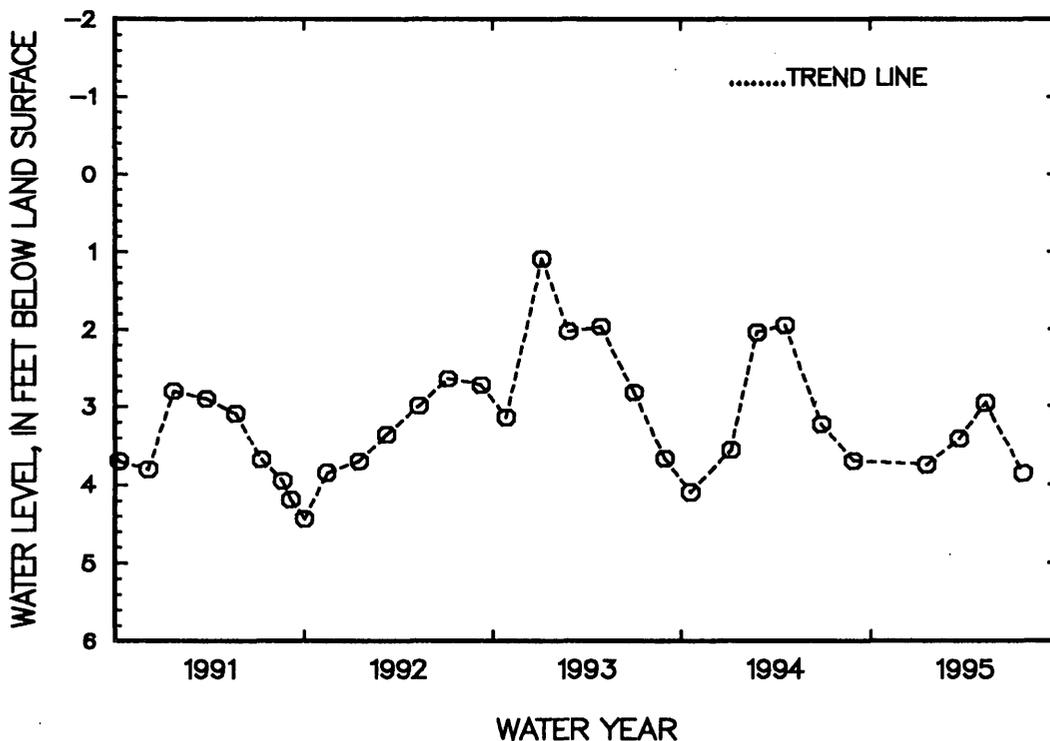
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Jan. 4, 1993; lowest measured, 4.43 ft below land-surface datum, Oct. 2, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 17	3.75	MAR 21	3.42	MAY 10	2.96	JUL 20	3.86

WATER YEAR 1995 HIGHEST 2.96 MAY 10, 1995 LOWEST 3.86 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

374320075380501. Local number, 66K 2 SOW 101C.

LOCATION.--Lat 37°43'19", long 75°36'54", Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 292 ft, screened 282 to 292 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Mar. 1, 1988; 0.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

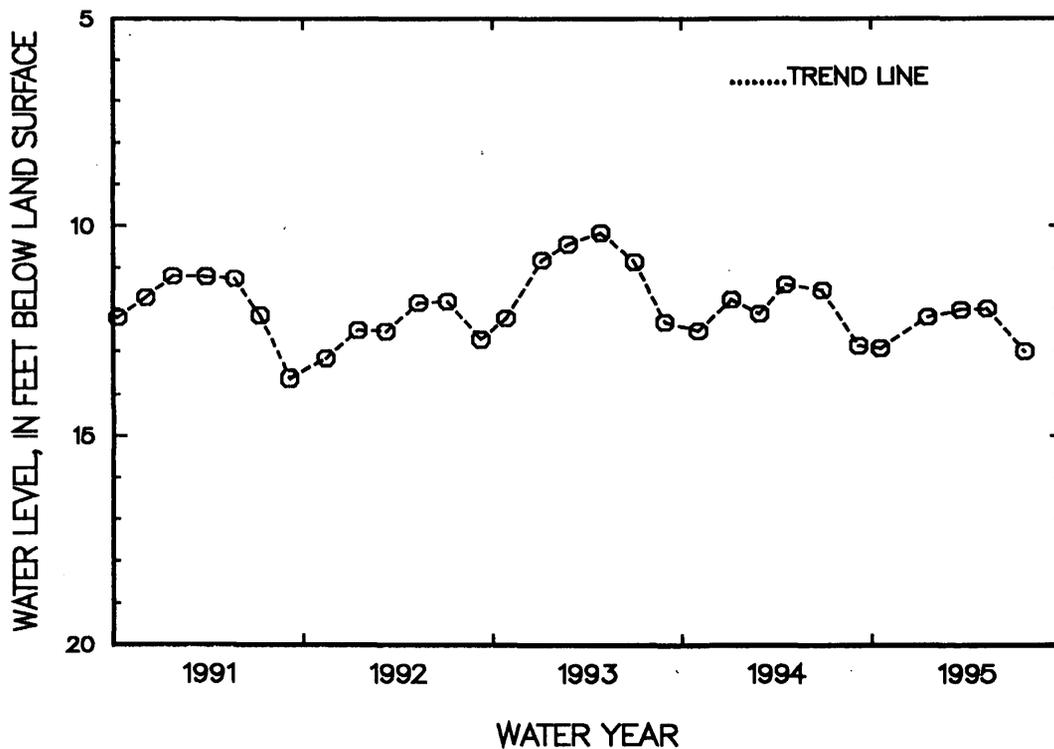
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.57 ft below land-surface datum, Apr. 25, 1984; lowest measured, 17.30 ft below land-surface datum, Aug. 5, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	12.94	JAN 17	12.19	MAR 21	12.01	MAY 10	11.99	JUL 20	13.02

WATER YEAR 1995 HIGHEST 11.99 MAY 10, 1995 LOWEST 13.02 JUL 20, 1995



ACCOMACK COUNTY

374320075365602. Local number, 66K 3 SOW 101B.

LOCATION.--Lat 37°43'20", long 75°38'05", Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above sea level, from topographic map. Measuring point: Top of casing, 0.36 ft above land-surface datum prior to Mar. 1, 1988; 0.65 ft thereafter.

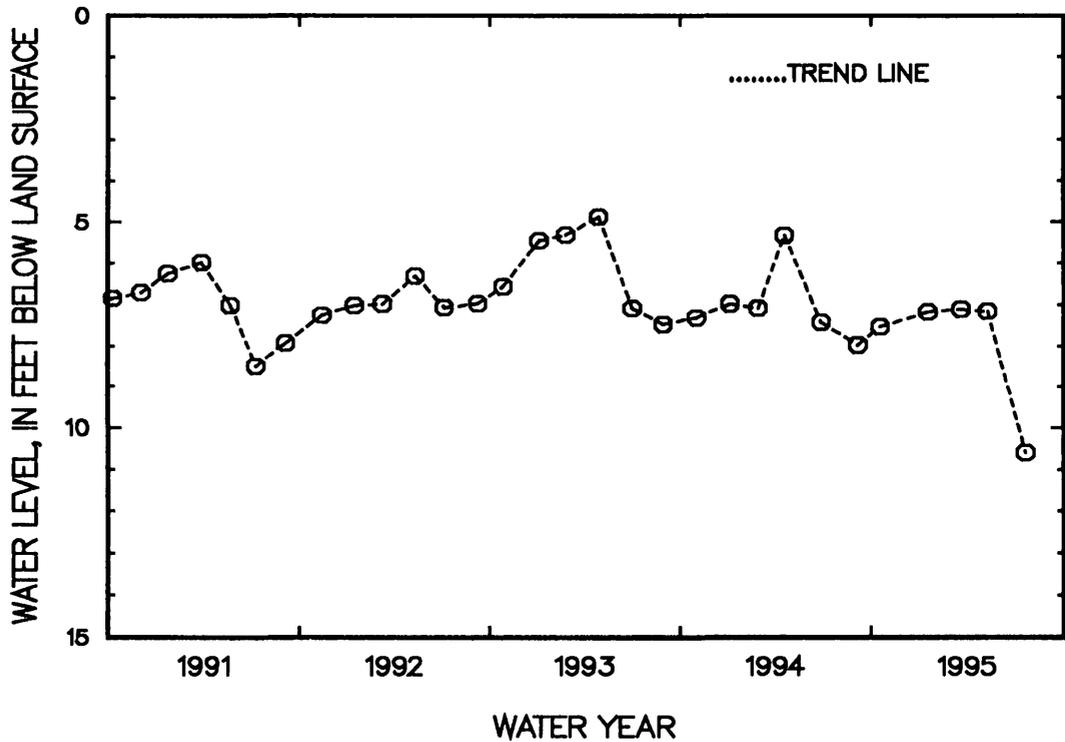
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.04 ft below land-surface datum, Apr. 25, 1984; lowest measured, 10.60 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	7.54	JAN 17	7.18	MAR 21	7.11	MAY 10	7.16	JUL 20	10.60
WATER YEAR 1995		HIGHEST	7.11 MAR 21, 1995	LOWEST	10.60 JUL 20, 1995				



GROUND-WATER LEVELS

ACCOMACK COUNTY

374320075365603. Local number, 66K 4 SOW 101A.

LOCATION.--Lat 37°43'20", long 75°36'56", Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 152 ft, screened 142 to 152 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Mar. 1, 1988; 0.65 ft Mar. 1, 1988, to June 20, 1989; at land-surface datum June 21, 1989, to Jan. 3, 1990; 0.85 ft above land-surface datum thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

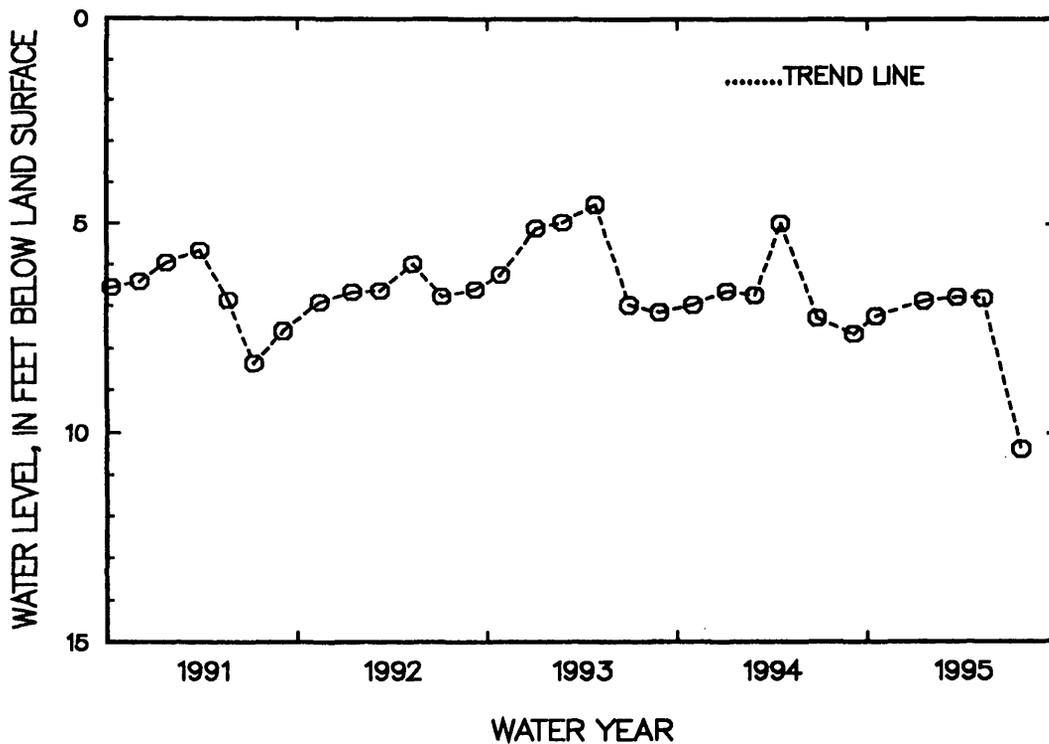
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.99 ft below land-surface datum, Apr. 25, 1984; lowest measured, 10.37 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	7.20	JAN 17	6.84	MAR 21	6.75	MAY 10	6.78	JUL 20	10.37

WATER YEAR 1995 HIGHEST 6.75 MAR 21, 1995 LOWEST 10.37 JUL 20, 1995



ACCOMACK COUNTY

375225075321701. Local number, 66L 1 SOW 107C.

LOCATION.--Lat 37°52'25", long 75°32'17", Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 305 ft, screened 295 to 305 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.33 ft above land-surface datum prior to Mar. 1, 1988; 0.4 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

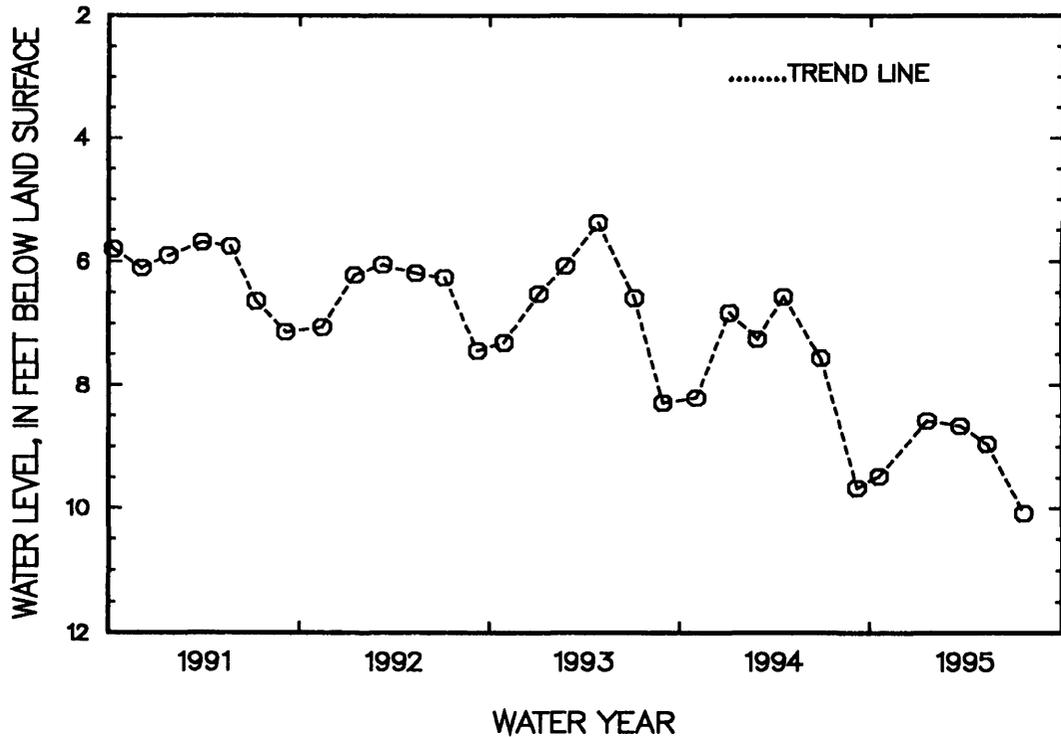
PERIOD OF RECORD.--September 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.06 ft below land-surface datum, Jan. 4, 1984; lowest measured, 10.08 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	9.48	JAN 17	8.58	MAR 21	8.67	MAY 11	8.96	JUL 20	10.08

WATER YEAR 1995 HIGHEST 8.58 JAN 17, 1995 LOWEST 10.08 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

375225075321702. Local number, 66L 2 SOW 107A.

LOCATION.--Lat' 37°52'25", long 75°32'17", Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 0.23 ft above land-surface datum prior to Mar. 1, 1988; 0.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

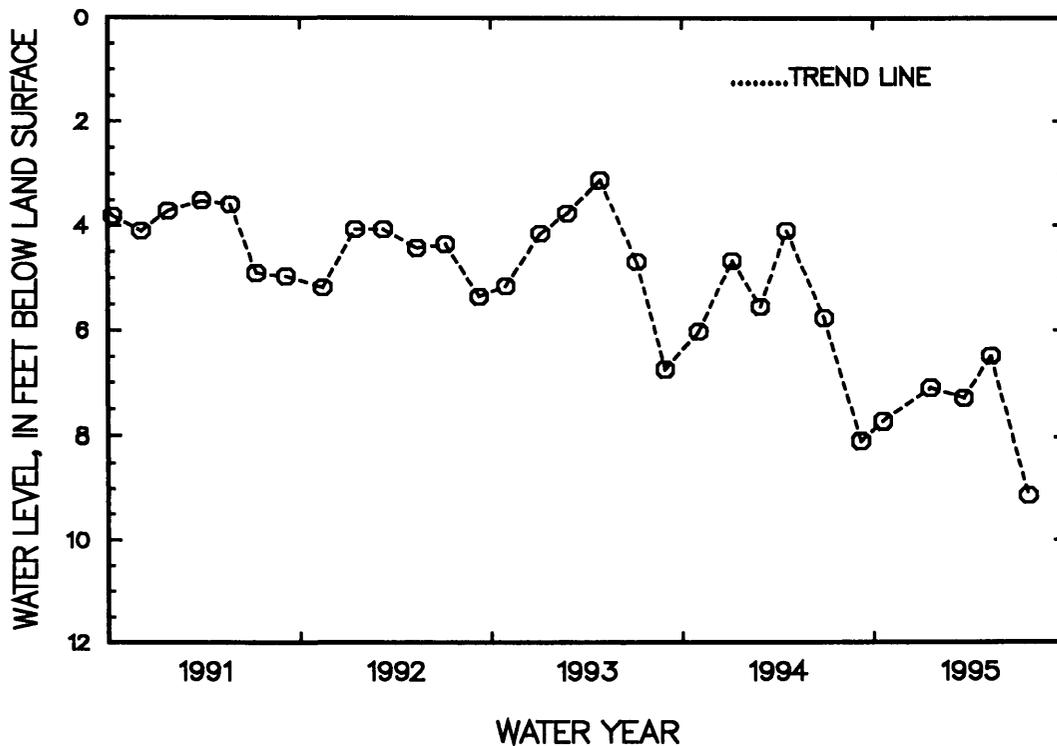
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.21 ft below land-surface datum, Apr. 25, 1984; lowest measured, 9.13 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	7.72	JAN 17	7.09	MAR 21	7.28	MAY 11	6.49	JUL 20	9.13

WATER YEAR 1995 HIGHEST 6.49 MAY 11, 1995 LOWEST 9.13 JUL 20, 1995



ACCOMACK COUNTY

375225075321703. Local number, 66L 3 SOW 107B.

LOCATION.--Lat 37°52'25", long 75°32'17", Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 206 ft, screened 191 to 201 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum prior to June 19, 1990; 0.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

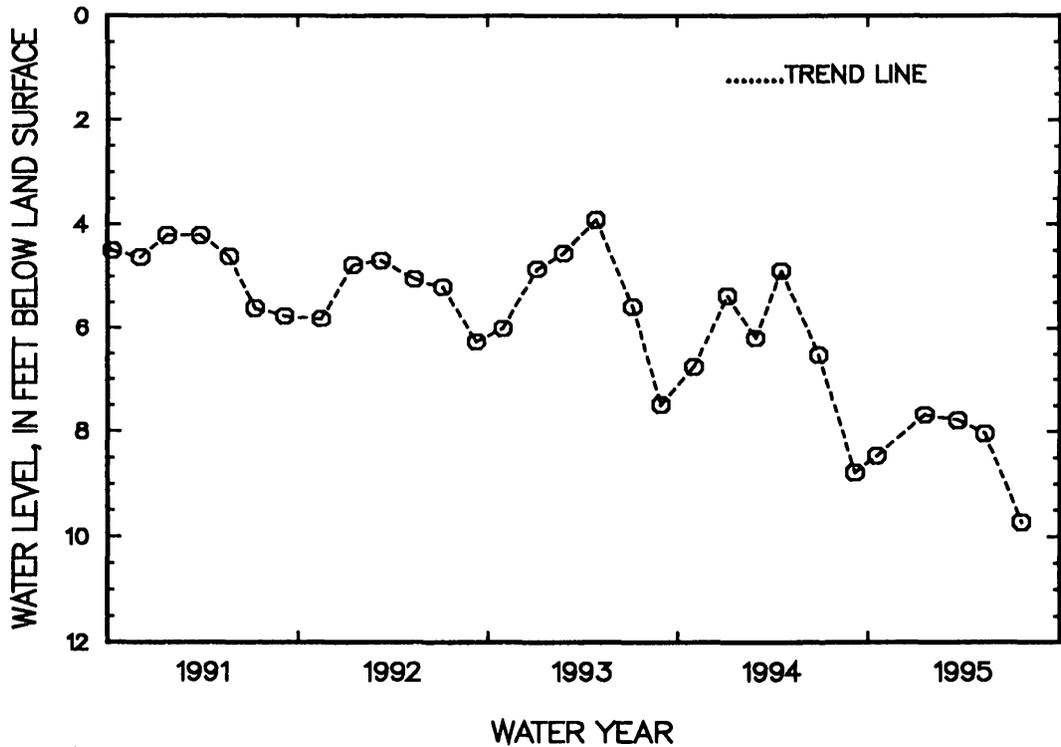
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.64 ft below land-surface datum, Apr. 25, 1984; lowest measured, 9.72 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	8.46	JAN 17	7.67	MAR 21	7.78	MAY 11	8.04	JUL 20	9.72

WATER YEAR 1995 HIGHEST 7.67 JAN 17, 1995 LOWEST 9.72 JUL 20, 1995



ACCOMACK COUNTY

375723075344401. Local number, 66M 16 SOW 110A.

LOCATION.--Lat 37°57'23", long 75°34'44", Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above sea level, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum prior to Feb. 29, 1988; 0.65 ft Mar. 1, 1988, to Oct. 3, 1989; at land surface datum Oct. 4, 1989, to Jan. 3, 1990; 1.0 ft above land-surface datum Jan. 4, 1990, to Oct. 10, 1990; 0.70 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

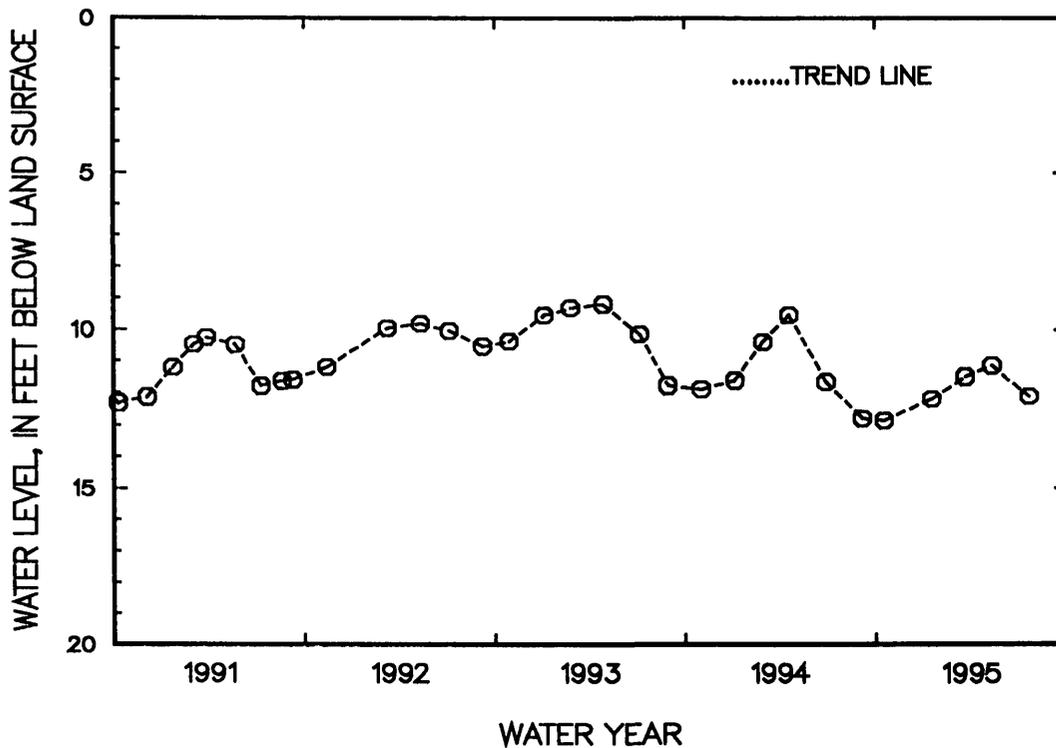
PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.28 ft below land-surface datum, Feb. 19, 1986; lowest measured, 12.85 ft below land-surface datum, Oct. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	12.85	JAN 17	12.16	MAR 21	11.46	MAY 11	11.12	JUL 20	12.08

WATER YEAR 1995 HIGHEST 11.12 MAY 11, 1995 LOWEST 12.85 OCT 18, 1994



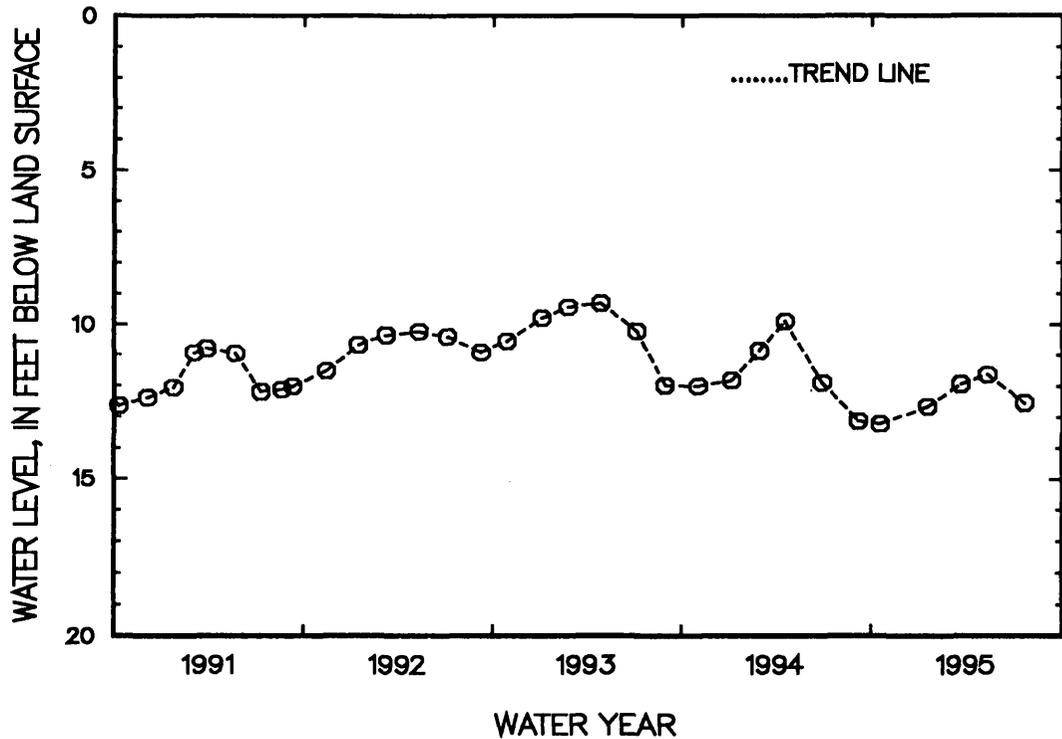
ACCOMACK COUNTY

375723075344402. Local number, 66M 17 SOW 110B.
 LOCATION.--Lat 37°57'23", long 75°34'44", Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.
 AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.
 WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 178 ft, screened 168 to 178 ft.
 INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.
 DATUM.--Elevation of land-surface datum is 11 ft above sea level, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum prior to Feb. 29, 1988; 0.75 ft thereafter.
 REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.
 PERIOD OF RECORD.--October 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.76 ft below land-surface datum, Apr. 1, 1980; lowest measured, 13.21 ft below land-surface datum, Oct. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	13.21	JAN 17	12.64	MAR 21	11.92	MAY 11	11.62	JUL 20	12.53

WATER YEAR 1995 HIGHEST 11.62 MAY 11, 1995 LOWEST 13.21 OCT 18, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

375723075344403. Local number, 66M 18 SOW 110C.

LOCATION.--Lat 37°57'23", long 75°34'44", Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 240 ft, screened 230 to 240 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above sea level, from topographic map. Measuring point: Top of casing, 0.65 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

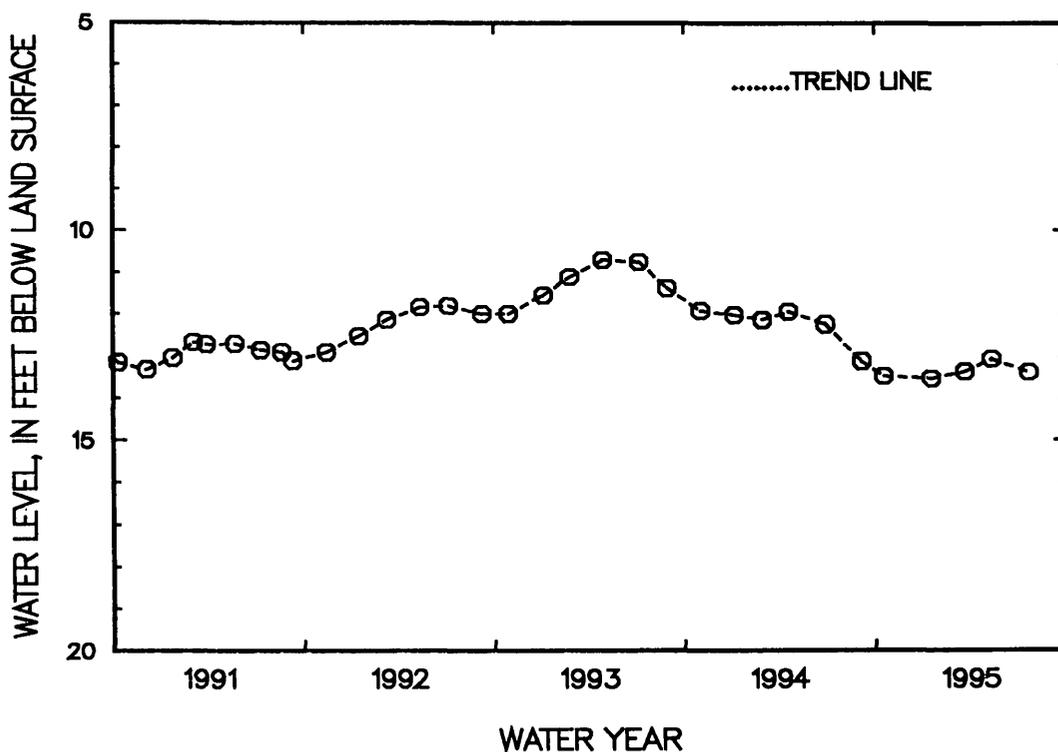
PERIOD OF RECORD.--October 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.43 ft below land-surface datum, Aug. 12, 1981; lowest measured, 13.51 ft below land-surface datum, Jan. 17, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	13.46	JAN 17	13.51	MAR 21	13.35	MAY 11	13.05	JUL 20	13.36

WATER YEAR 1995 HIGHEST 13.05 MAY 11, 1995 LOWEST 13.51 JAN 17, 1995



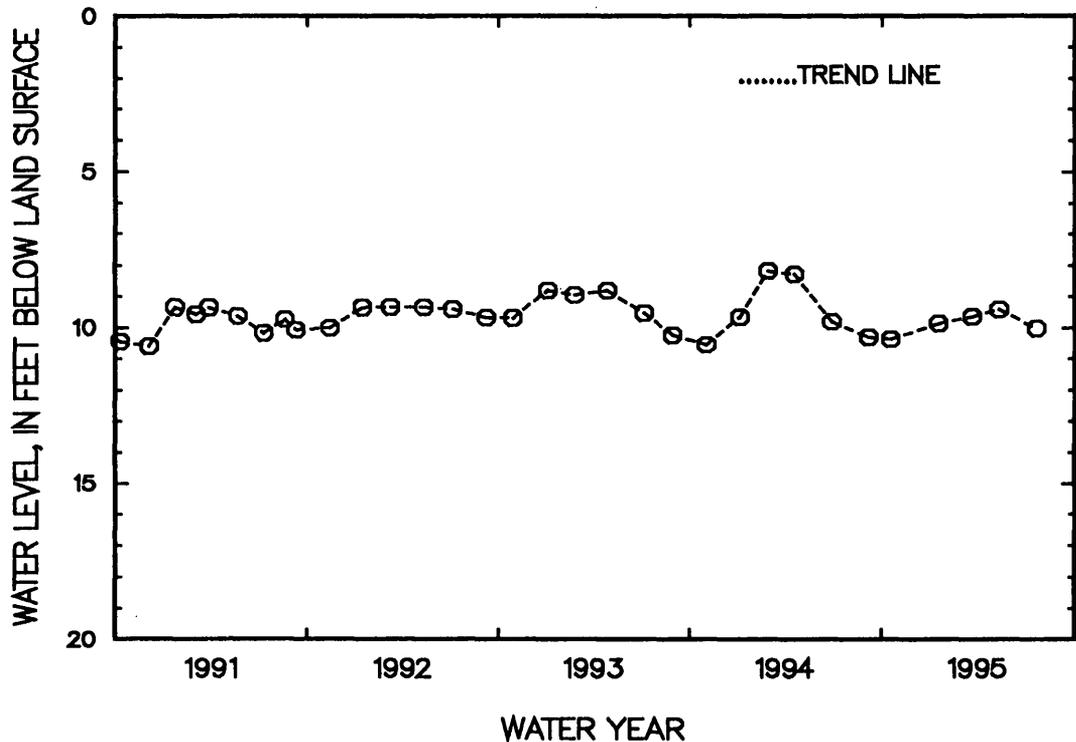
ACCOMACK COUNTY

375723075344404. Local number, 66M 19 SOW 110S.
 LOCATION.--Lat 37°57'23", long 75°34'44", Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.
 AQUIFER.--Columbia aquifer of Quaternary age.
 WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 36 ft, screened 26 to 36 ft.
 INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.
 DATUM.--Elevation of land-surface datum is 11 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Feb. 29, 1988; 0.35 ft thereafter.
 REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.
 PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.06 ft below land-surface datum, Mar. 17, 1987; lowest measured, 11.34 ft below land-surface datum, Nov. 6, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	10.37	JAN 17	9.85	MAR 21	9.63	MAY 11	9.40	JUL 20	10.02

WATER YEAR 1995 HIGHEST 9.40 MAY 11, 1995 LOWEST 10.37 OCT 18, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

375610075361801. Local number, 66M 23 SOW 181A.

LOCATION.--Lat 37°56'10", long 75°36'18", Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 1,300 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with manometer or chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional pumpage.

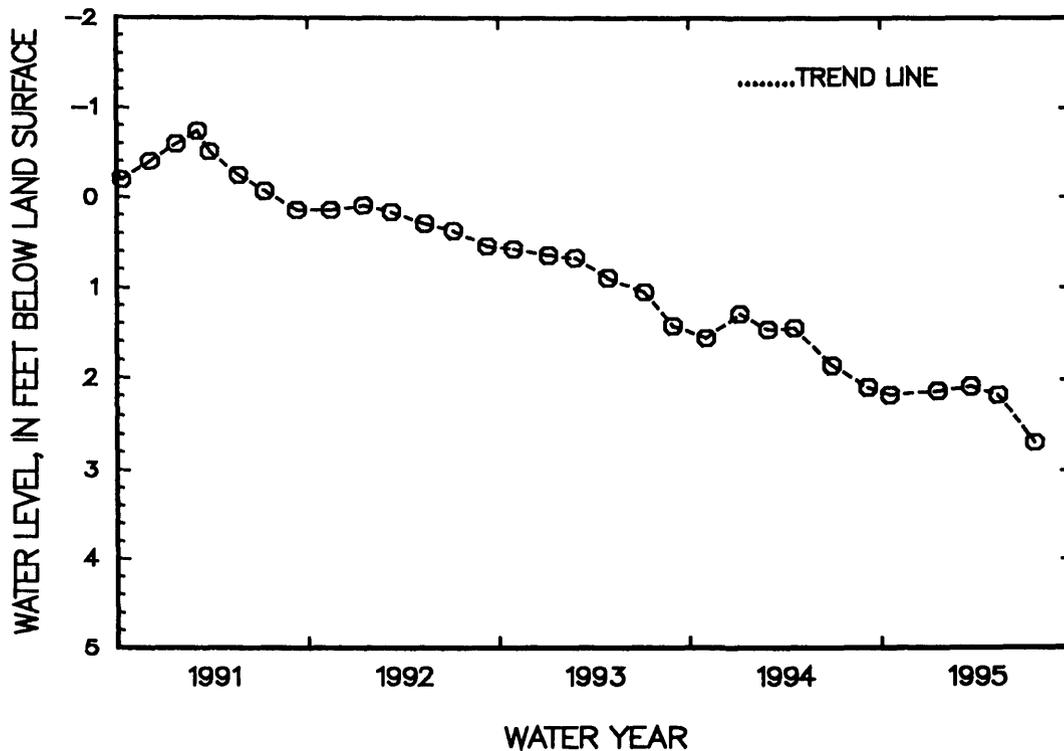
PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.38 ft above land-surface datum, Jan. 26, 1988; lowest measured, 2.69 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	2.16	JAN 17	2.12	MAR 21	2.07	MAY 11	2.16	JUL 20	2.69

WATER YEAR 1995 HIGHEST 2.07 MAR 21, 1995 LOWEST 2.69 JUL 20, 1995



ACCOMACK COUNTY

375610075361802. Local number, 66M 24 SOW 181B.

LOCATION.--Lat 37°56'10", long 75°36'18", Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--St. Mary-Choptank aquifer of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 508 ft, screened 498 to 508 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

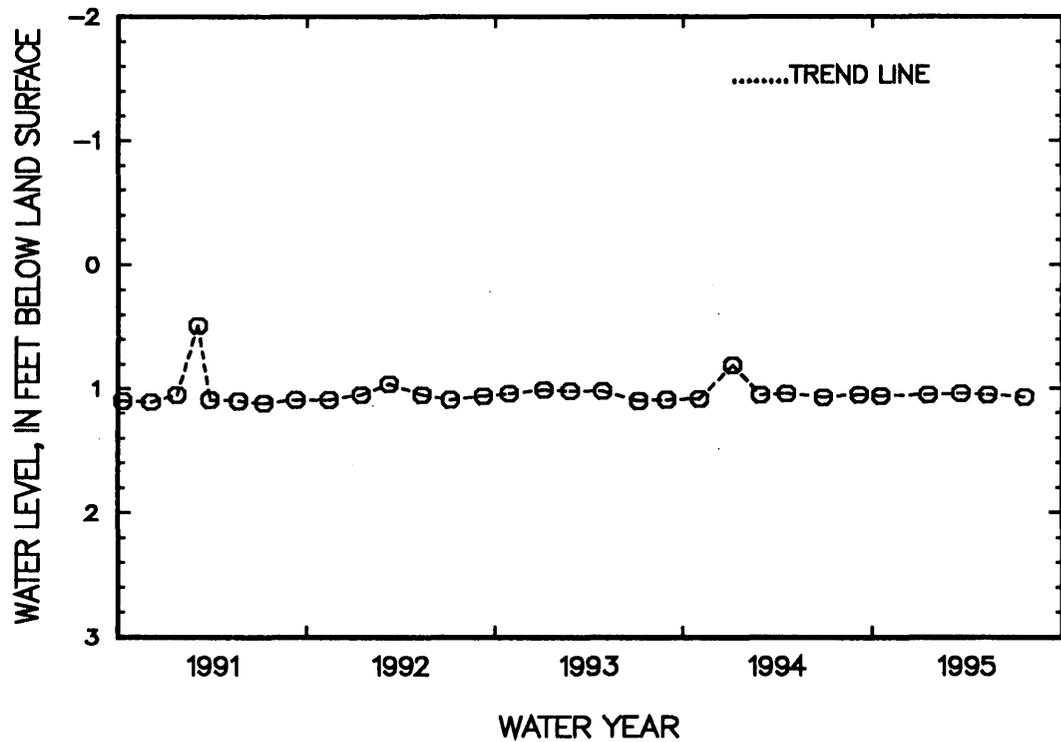
PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft below land-surface datum, Mar. 7, 1989; lowest measured, 1.25 ft below land-surface datum, June 19, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	1.06	JAN 17	1.05	MAR 21	1.04	MAY 11	1.05	JUL 20	1.07

WATER YEAR 1995 HIGHEST 1.04 MAR 21, 1995 LOWEST 1.07 JUL 20, 1995



ACCOMACK COUNTY

375610075361804. Local number, 66M 26 SOW 181D.

LOCATION.--Lat 37°56'10", long 75°36'18", Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 230 ft, screened 220 to 230 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

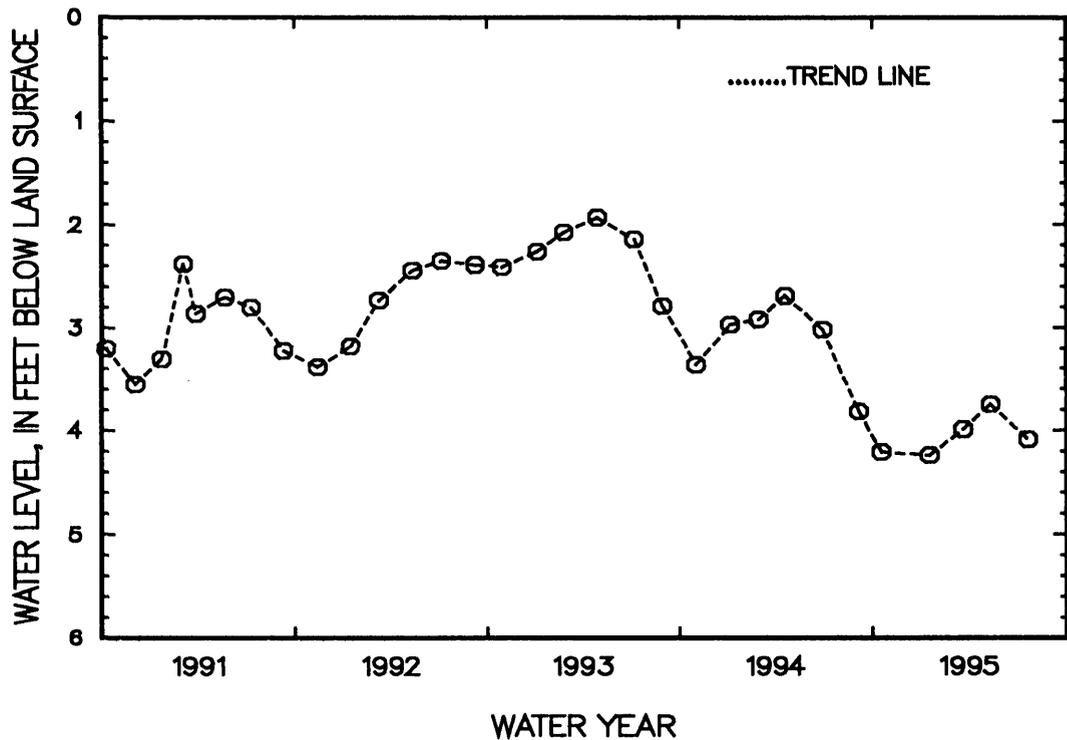
PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.93 ft below land-surface datum, Apr. 28, 1993; lowest measured, 4.24 ft below land-surface datum, Jan. 17, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	4.21	JAN 17	4.24	MAR 21	3.99	MAY 11	3.75	JUL 20	4.09

WATER YEAR 1995 HIGHEST 3.75 MAY 11, 1995 LOWEST 4.24 JAN 17, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

375610075361805. Local number, 66M 27 SOW 181E.

LOCATION.--Lat 37°56'10", long 75°36'18", Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 30 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above sea level, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

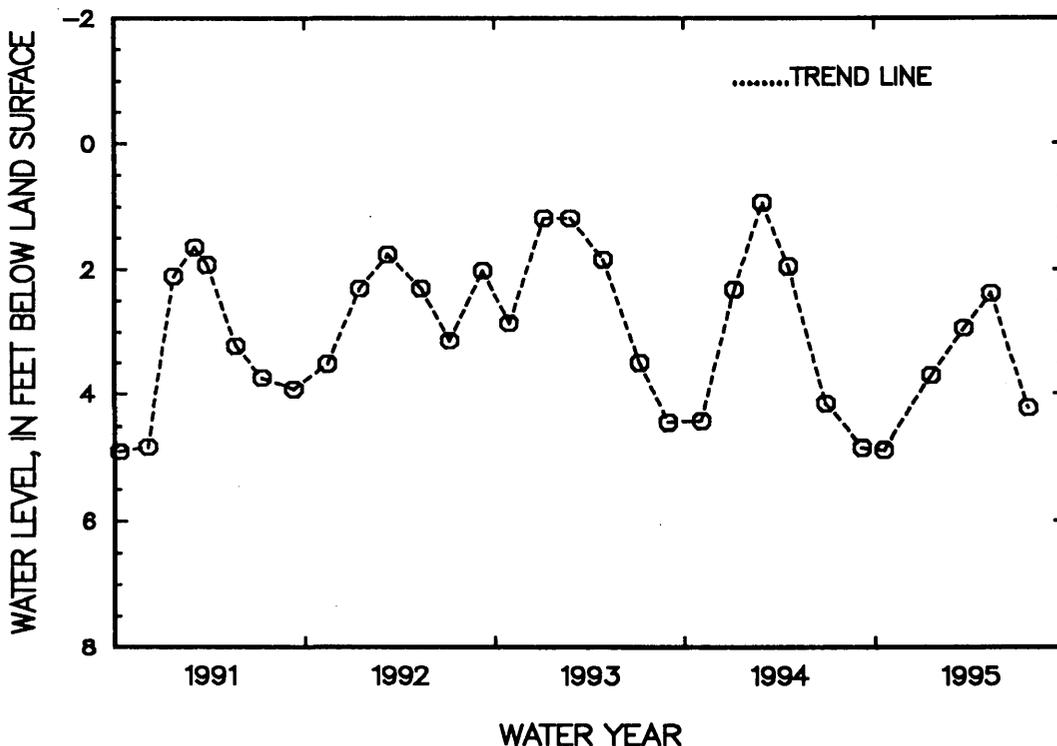
PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.50 ft below land-surface datum, Aug. 8, 1989; lowest measured, 4.90 ft below land-surface datum, Oct. 10, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	4.88	JAN 17	3.70	MAR 21	2.94	MAY 11	2.38	JUL 20	4.23

WATER YEAR 1995 HIGHEST 2.38 MAY 11, 1995 LOWEST 4.88 OCT 18, 1994



GROUND-WATER LEVELS

ACCOMACK COUNTY

375622075280101. Local number, 67M 2.

LOCATION.--Lat 37°56'23", long 75°28'02", Hydrologic Unit 02060010, well B31 Wallops Flight Center, 5.0 mi west of Chincoteague. Owner: National Aeronautics and Space Administration (formerly U.S. Naval Air Station, Wallops Island).

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 60 ft, screen depth unknown.

INSTRUMENTATION.--Monthly measurement with chalked tape by National Aeronautics and Space Administration personnel.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.38 ft above land-surface datum.

REMARKS.--Records provided by the National Aeronautics and Space Administration. Water levels for water years 1963 to 1974 should be 4.71 ft lower than previously published.

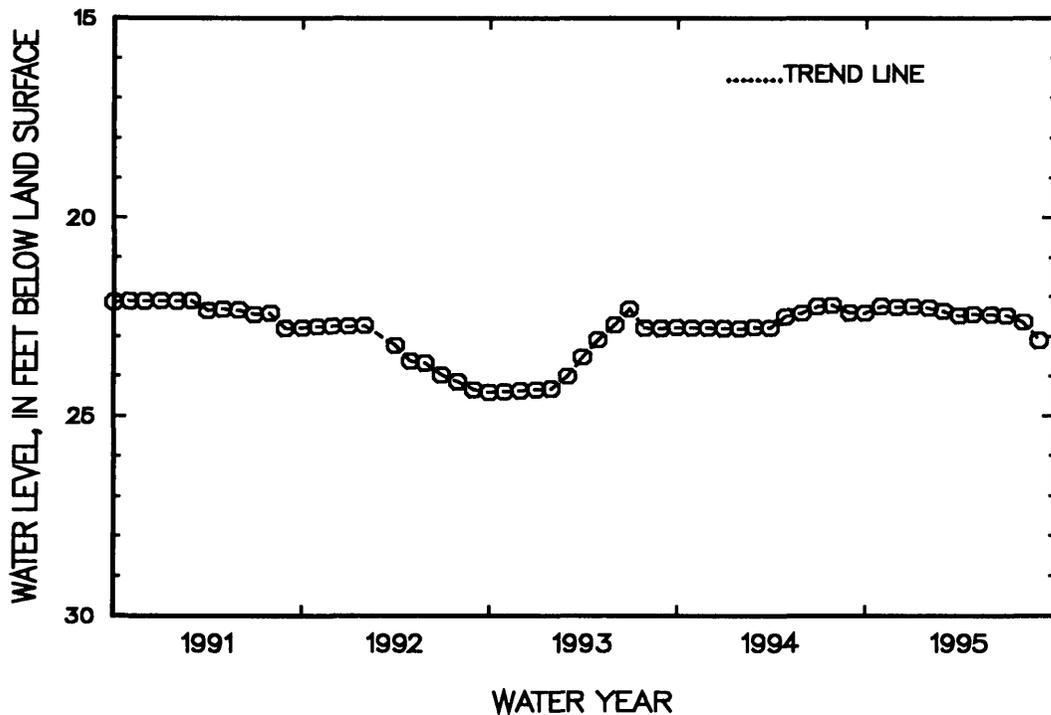
PERIOD OF RECORD.--May 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.82 ft below land-surface datum, July 2, 1979; lowest measured, 27.02 ft below land-surface datum, Jan. 20, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	22.24	DEC 30	22.25	FEB 28	22.36	APR 26	22.44	JUN 29	22.47	AUG 31	23.10
NOV 30	22.26	JAN 31	22.28	MAR 31	22.48	MAY 31	22.45	AUG 01	22.64		

WATER YEAR 1995 HIGHEST 22.24 OCT 31, 1994 LOWEST 23.10 AUG 31, 1995



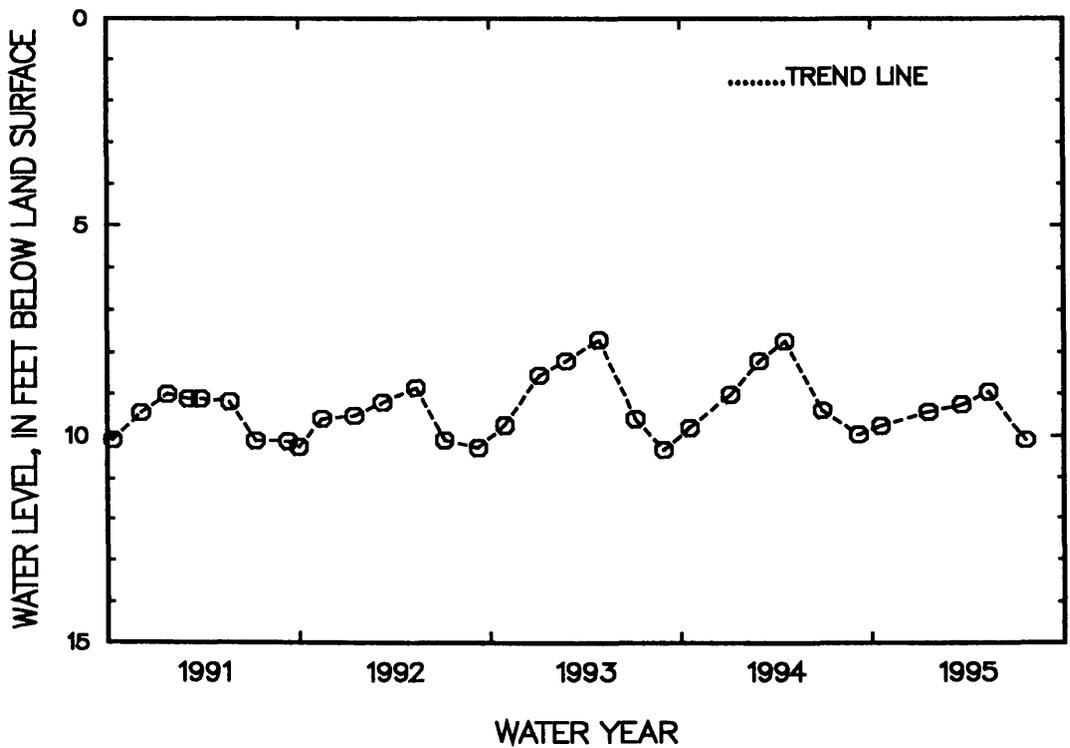
GROUND-WATER LEVELS

ACCOMACK COUNTY

375635075271501. Local number, 67M 10 SOW 115A.
 LOCATION.--Lat 37°56'35", long 75°27'15", Hydrologic Unit 02060010, 200 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.5 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.
 AQUIFER.--Columbia aquifer of Quaternary age.
 WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 52 ft, screened 32 to 52 ft.
 INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.
 DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum prior to Feb. 28, 1988; 1.7 ft thereafter.
 REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division
 PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.72 ft below land-surface datum, Oct. 3, 1989; lowest measured, 10.32 ft below land-surface datum, Aug. 30, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	9.75	JAN 17	9.42	MAR 21	9.25	MAY 11	8.95	JUL 20	10.10
WATER YEAR 1995 HIGHEST 8.95		MAY 11, 1995		LOWEST 10.10		JUL 20, 1995			



ACCOMACK COUNTY

375635075271502. Local number, 67M 11 SOW 115B.

LOCATION.--Lat 37°56'35", long 75°27'15", Hydrologic Unit 02060010, 200 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.5 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 138 ft, screened 118 to 138 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 14 ft above sea level, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum prior to Feb. 29, 1988; 1.9 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

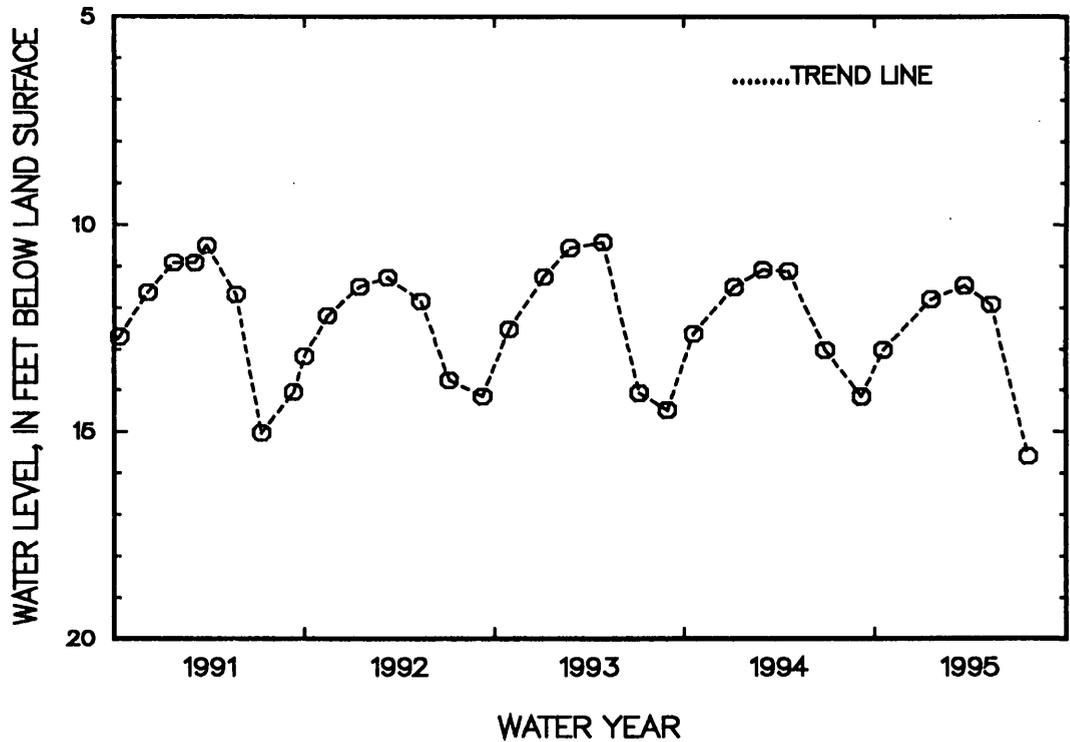
PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.70 ft below land-surface datum, May 6, 1982; lowest measured, 15.60 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 18	13.02	JAN 17	11.79	MAR 21	11.46	MAY 11	11.92	JUL 20	15.60

WATER YEAR 1995 HIGHEST 11.46 MAR 21, 1995 LOWEST 15.60 JUL 20, 1995



GROUND-WATER LEVELS

ACCOMACK COUNTY

375635075271503. Local number, 67M 12 SOW 115C.

LOCATION.--Lat 37°56'35", long 75°27'15", Hydrologic Unit 02060010, 200 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.5 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 222 ft, screened 202 to 222 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Nov. 15, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 13 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.35 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water levels affected by local pumpage.

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

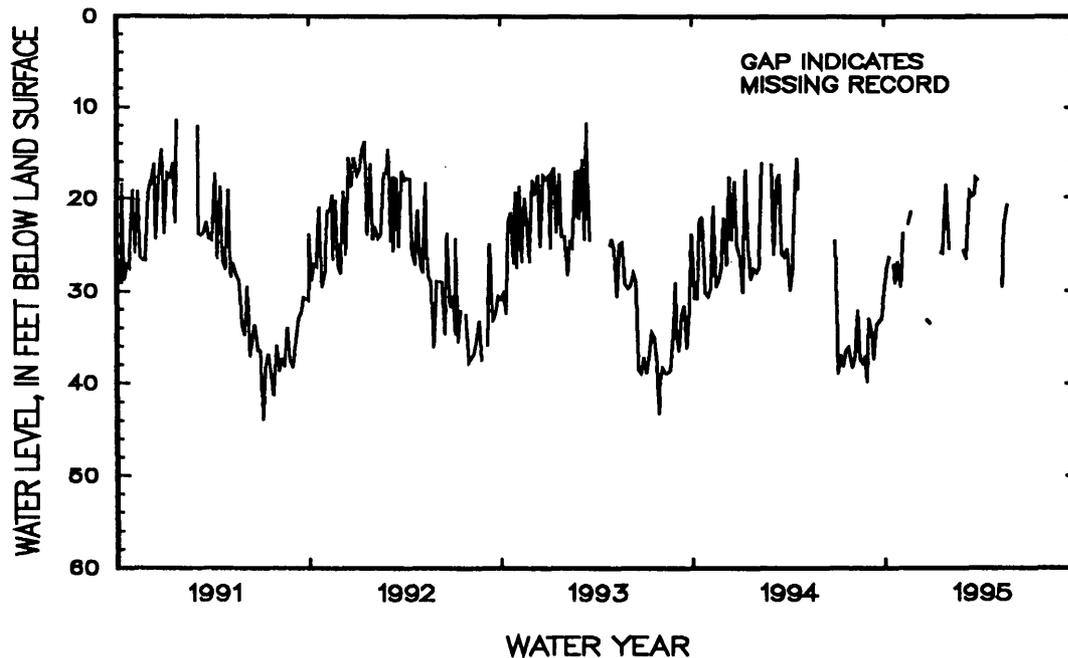
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.28 ft below land-surface datum, Apr. 2, 1990; lowest recorded, 51.40 ft below land-surface datum, Aug. 17, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.50	23.88	---	---	---	26.60	---	---	---	---	---	---
10	26.48	---	31.88	---	---	19.35	---	---	---	---	---	---
15	---	22.84	---	---	---	19.87	---	23.12	---	---	---	---
20	29.19	21.55	33.17	26.03	17.50	19.66	---	20.86	---	32.91	---	---
25	26.86	---	33.43	18.58	---	17.98	---	---	---	---	---	---
EOM	29.55	23.69	---	25.52	25.73	---	---	---	---	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 14.31 MAR 02, 1995 LOWEST INSTANTANEOUS 33.43 DEC 25, 1994

DAILY LOW-WATER LEVELS



ACCOMACK COUNTY

375635075271504. Local number, 67M 13 SOW 115D.

LOCATION.--Lat 37°56'35", long 75°27'15", Hydrologic Unit 02060010, 50 ft east of State Highway 175, 2.4 mi east of Wattleville, and 2.6 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 249 ft, screened 229 to 249 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 16 ft above sea level, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum prior to Aug. 8, 1989; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water levels affected by local pumpage.

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

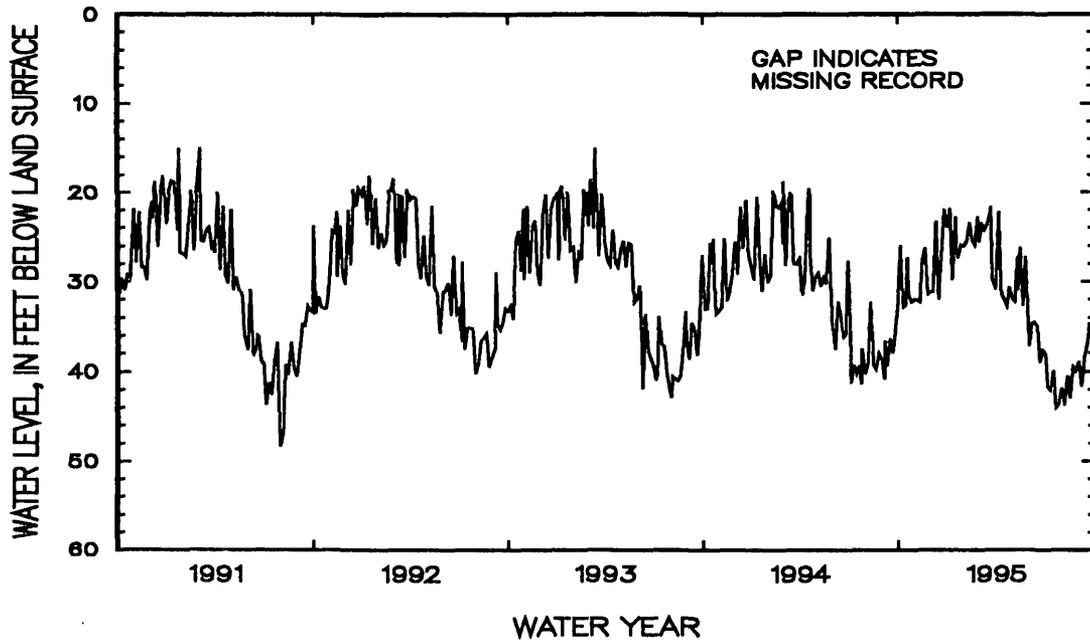
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.45 ft below land-surface datum, Apr. 2, 1990; lowest recorded, 52.52 ft below land-surface datum, Aug. 17, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.02	32.05	31.14	21.85	27.75	28.09	22.26	32.27	34.72	41.75	43.77	41.69
10	32.83	32.30	23.24	29.79	25.88	22.00	31.45	27.25	34.55	42.10	40.52	38.48
15	32.60	27.65	32.00	22.75	21.28	22.54	32.00	26.18	34.92	39.95	42.98	37.01
20	31.55	26.20	27.30	27.37	20.85	22.40	32.73	32.73	39.01	44.02	39.55	34.60
25	32.29	31.38	21.95	21.22	29.52	29.78	30.63	27.23	37.74	43.66	40.00	36.03
EOM	32.00	31.14	24.02	26.95	27.23	30.86	31.94	37.18	38.11	41.82	38.93	33.75

WATER YEAR 1995 HIGHEST INSTANTANEOUS 17.69 MAR 02, 1995 LOWEST INSTANTANEOUS 44.91 JUL 29, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ACCOMACK COUNTY

375617075273701. Local number, 67M 14 SOW 115E.

LOCATION.--Lat 37°56'17", long 75°27'37", Hydrologic Unit 02060010, 100 ft west of State Highway 175, inside fence of NASA Wallops Flight Center, 2.1 mi northeast of intersection of State Highways 175 and 798, and 2.1 mi east of Wattsville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 280 ft, screened 260 to 280 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 26 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.3 ft above land-surface datum prior to Aug. 8, 1989; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water levels affected by local pumpage.

PERIOD OF RECORD.--February 1982 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

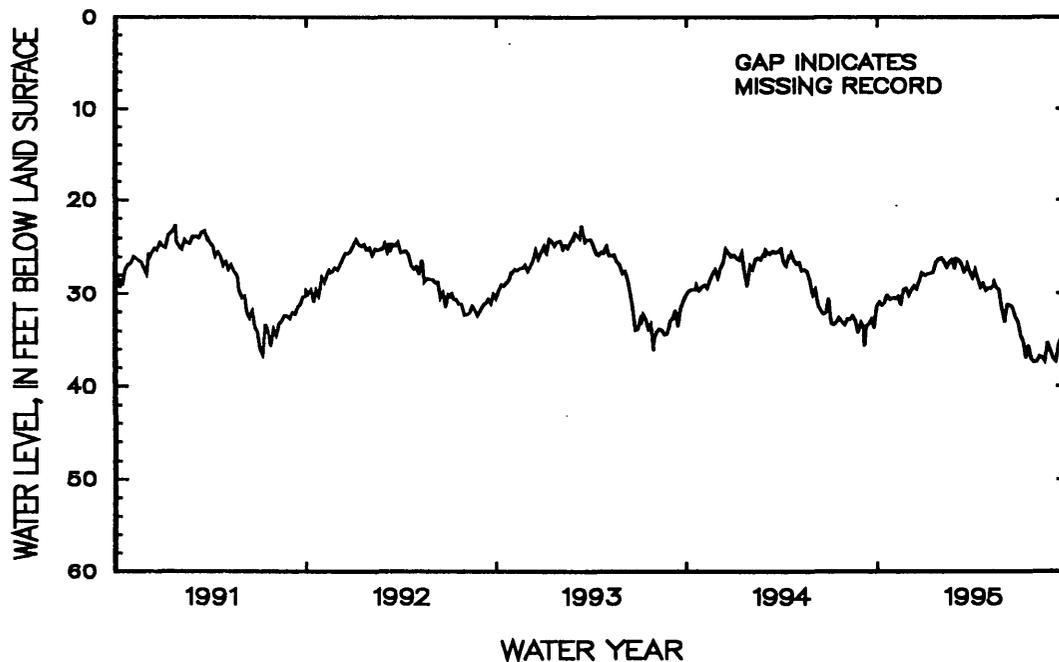
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.45 ft below land-surface datum, June 9, 1982; lowest recorded, 42.45 ft below land-surface datum, Aug. 17, 18, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.90	30.57	29.59	27.84	26.64	26.48	27.43	29.45	31.19	35.07	36.74	37.34
10	31.28	30.32	29.20	27.80	27.12	26.83	28.48	29.14	31.27	36.94	36.86	35.54
15	30.95	31.24	29.53	27.71	26.67	27.62	29.35	29.38	31.58	35.58	37.32	34.91
20	30.22	29.58	28.64	26.74	26.42	27.25	28.93	29.58	32.57	37.00	35.27	34.73
25	30.63	29.44	27.74	26.36	27.30	27.47	29.66	31.48	33.04	37.43	36.06	33.95
EOM	30.48	30.20	28.05	26.23	26.35	28.31	29.40	33.09	34.57	37.35	37.03	33.05

WATER YEAR 1995 HIGHEST INSTANTANEOUS 25.73 MAR 03, 1995
 LOWEST INSTANTANEOUS 38.22 JUL 27, 28, 1995

DAILY LOW-WATER LEVELS



ALBEMARLE COUNTY

380333078264801. Local number, 43N 1 SOW 028.

LOCATION.--Lat 38°03'33", long 78°26'48", Hydrologic Unit 02080204, at Key West Subdivision, 1.1 mi east of Charlottesville. Owner: Key West Development Corporation.

AQUIFER.--Lynchburg Formation of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 409 ft, cased to 52 ft, open hole 52 to 409 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. June 25, 1974, to Apr. 10, 1981, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to June 25, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 345 ft above sea level, from topographic map. Measuring point: Top of casing, 0.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1967 to current year.

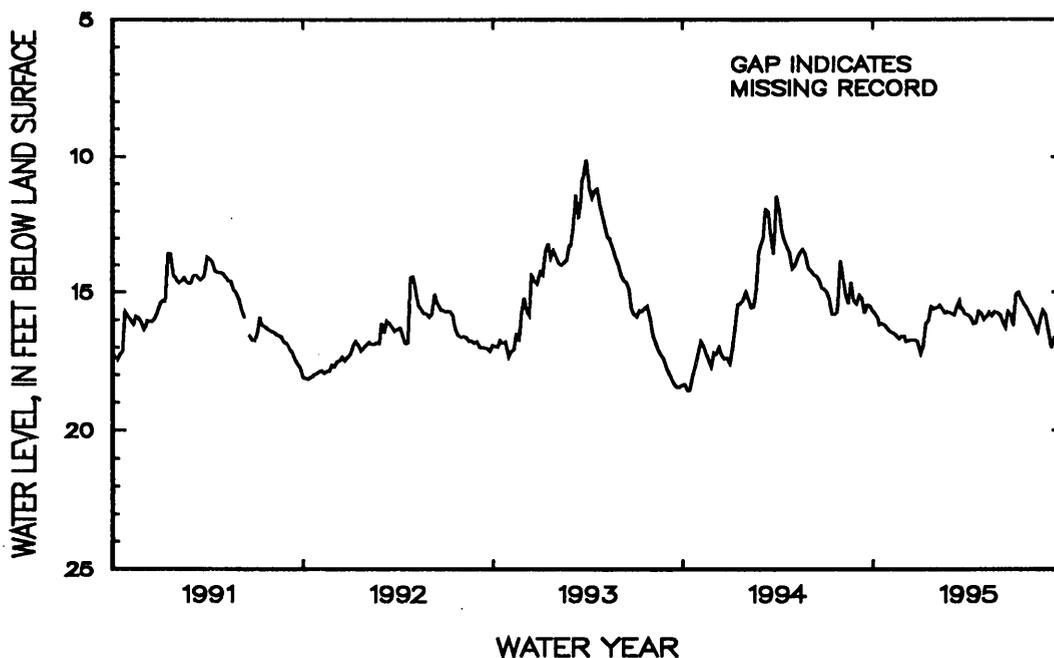
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.65 ft below land-surface datum, May 3, 1984; lowest recorded, 22.10 ft below land-surface datum, Nov. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.78	16.45	16.78	16.94	15.47	15.83	15.93	15.90	16.08	15.01	16.22	17.02
10	15.95	16.50	16.76	16.13	15.60	15.53	16.14	15.73	16.28	15.27	16.46	16.70
15	16.13	16.59	16.74	16.04	15.75	15.32	16.11	15.87	15.70	15.43	16.01	16.86
20	16.15	16.70	16.74	15.52	15.71	15.59	15.70	15.71	15.81	15.55	15.66	16.91
25	16.23	16.60	16.79	15.60	15.74	15.78	15.77	15.73	16.22	15.76	15.82	16.92
EOM	16.38	16.61	17.23	15.56	15.77	15.83	16.00	15.82	15.06	15.98	16.49	16.85

WATER YEAR 1995 HIGHEST INSTANTANEOUS 14.60 JUL 01, 02, 03, 1995
 LOWEST INSTANTANEOUS 17.23 DEC 31, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

AMELIA COUNTY

372709077585801. Local number, 47H 1 SOW 166.

LOCATION.--Lat 37°27'09", long 77°58'58", Hydrologic Unit 02080207, 800 ft north of State Highway 616, 0.95 mi west of intersection of State Highways 609 and 616, and 2.3 mi east of Lodore. Owner: R. K. Anderson.

AQUIFER.--Saprolite of porphyroblastic garnet-biotite gneiss of Late Precambrian-Early Paleozoic age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 48 in., depth 44 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 2, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 340 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

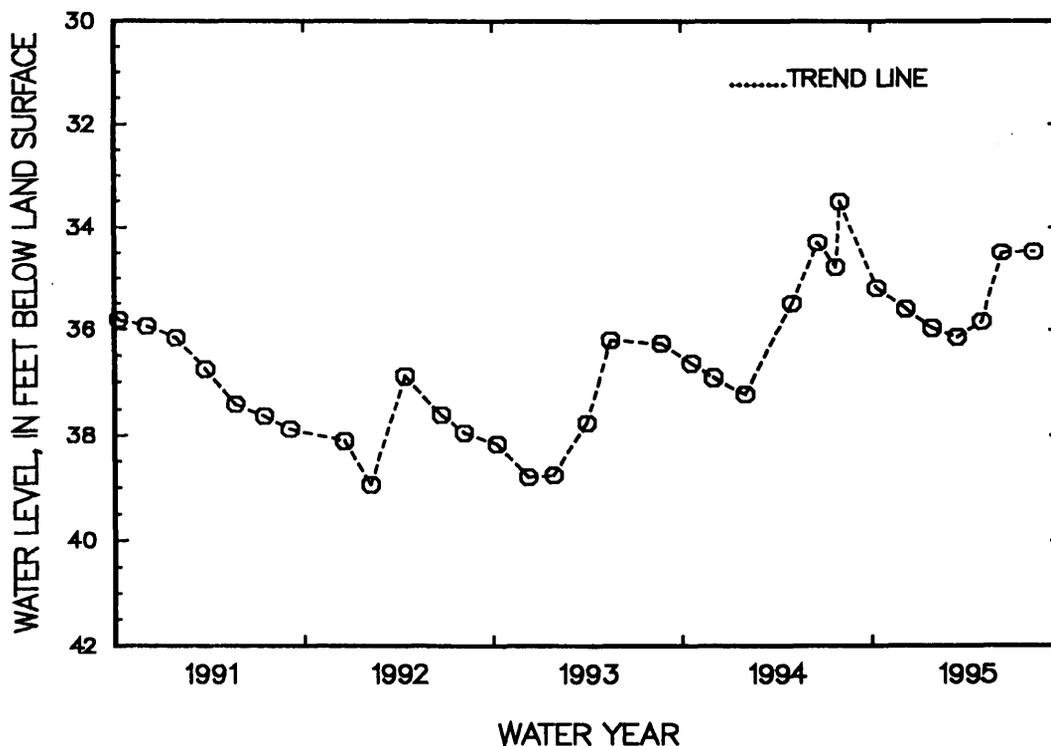
PERIOD OF RECORD.--May 1983 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.50 ft below land-surface datum, Aug. 2, 1994; lowest measured, 38.95 ft below land-surface datum, Feb. 6, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 12	35.20	JAN 26	35.97	MAR 15	36.14	MAY 01	35.84	JUN 08	34.50	AUG 08	34.48
DEC 07	35.60										

WATER YEAR 1995 HIGHEST 34.48 AUG 08, 1995 LOWEST 36.14 MAR 15, 1995



APPOMATTOX COUNTY

372133078493701. Local number, 40G 1 SOW 012.

LOCATION.--Lat 37°21'33", long 78°49'37", Hydrologic Unit 02080207, 0.45 mi east of State Highway 131, 300 ft north of U.S. Highway 460 in the town of Appomattox. Owner: Town of Appomattox.

AQUIFER.--Fork Mountain Formation of Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 288 ft, cased to 40 ft, open hole 40 to 288 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 15, 1967, one measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 860 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1949, October 1967 to current year. Unpublished record available May 1949 in files of the Virginia Department of Environmental Quality - Water Division.

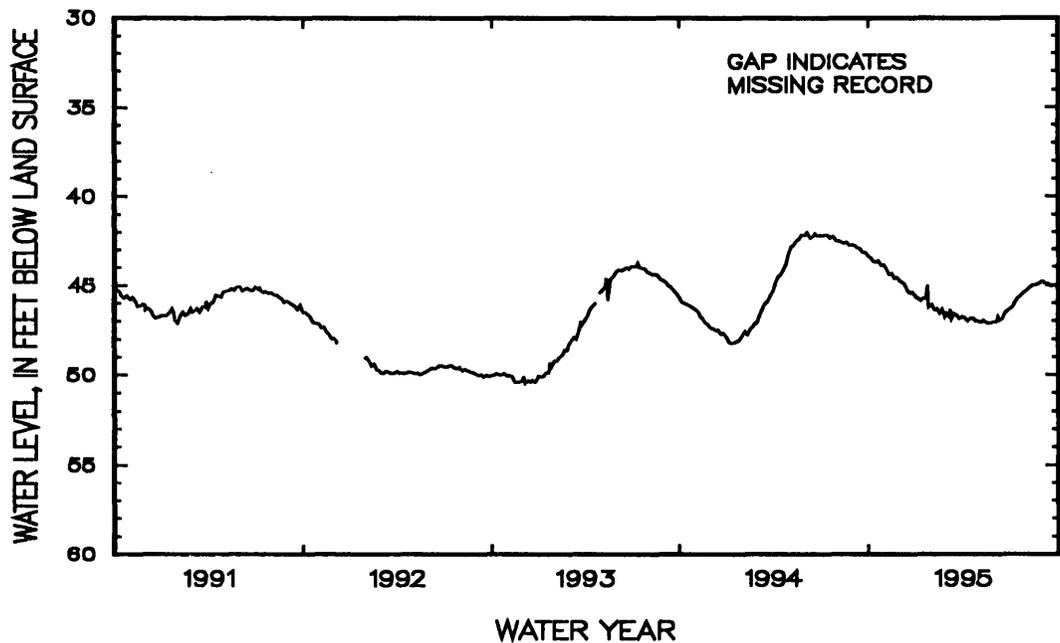
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 34.78 ft below land-surface datum, June 13, 1973; lowest recorded, 58.21 ft below land-surface datum, Nov. 17, 18, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.50	44.16	44.86	45.77	46.40	46.75	46.84	47.08	47.03	46.22	45.17	44.91
10	43.69	44.45	44.98	45.86	46.32	46.90	47.02	46.96	46.97	45.92	45.05	44.94
15	43.72	44.38	45.31	45.74	46.59	46.61	46.86	47.08	46.90	45.72	45.00	45.05
20	43.66	44.66	45.46	45.76	46.37	46.68	46.84	47.13	46.59	45.63	44.99	45.02
25	43.90	44.60	45.41	46.23	46.77	46.88	47.00	47.09	46.44	45.44	44.92	45.02
EOM	43.89	44.78	45.66	46.10	46.58	46.78	47.01	47.07	46.33	45.32	44.82	45.20

WATER YEAR 1995 HIGHEST INSTANTANEOUS 43.14 OCT 01, 1994
 LOWEST INSTANTANEOUS 47.19 MAY 23, 28, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

APPOMATTOX COUNTY

372514078394301. Local number, 41H 2.

LOCATION.--Lat 37°25'14", long 78°39'43", Hydrologic Unit 02080207, 1.0 mi south of intersection of State Highway 636 on the east side of State Highway 640, 2.8 mi southeast of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 68 ft, diameter 1.25 in. from 68 to 73 ft, depth 73 ft, screened 68 to 73 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder--60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

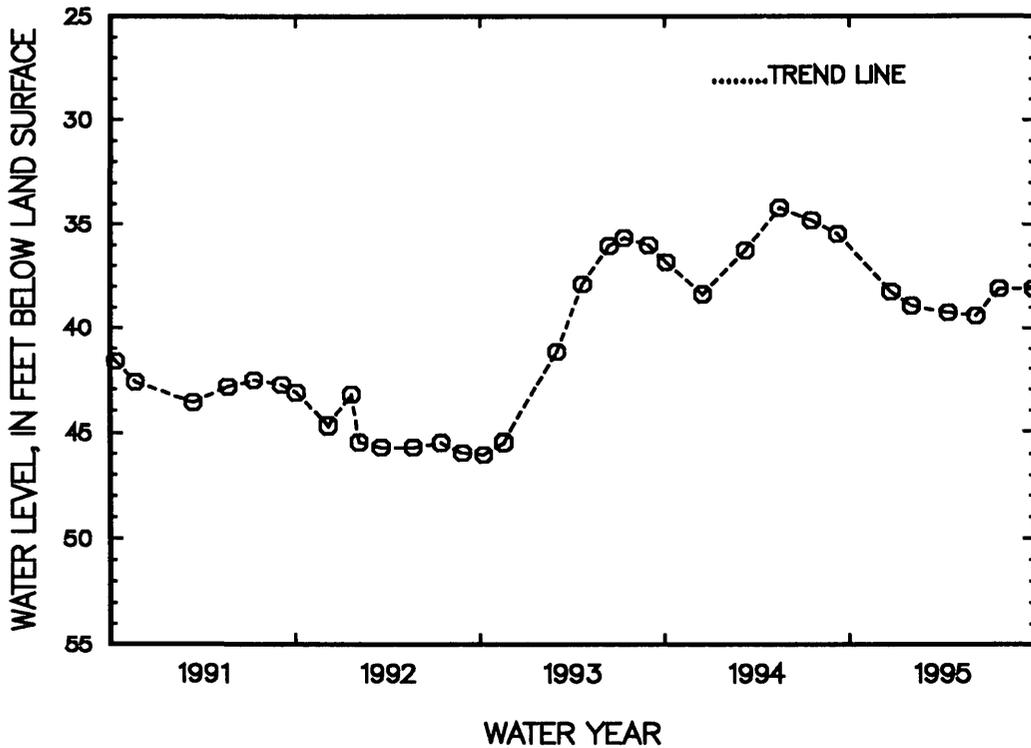
DATUM.--Elevation of land-surface datum is 640 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 32.99 ft below land-surface datum, May 20, 1973; lowest measured, 49.41 ft below land-surface datum, Mar. 30, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22	38.25	JAN 31	38.92	APR 13	39.26	JUN 06	39.42	JUL 21	38.10	SEP 26	38.08
WATER YEAR 1995		HIGHEST	38.08	SEP 26, 1995	LOWEST	39.42	JUN 06, 1995				



ARLINGTON COUNTY

385346077073701. Local number, 53V 1.

LOCATION.--Lat 38°53'46", long 77°07'37", Hydrologic Unit 02070010, at Langston School, 4854 Lee Highway in Arlington. Owner: Arlington County School Board.

AQUIFER.--Brandywine Formation of Pleistocene age and Bryn Mawr (?) Gravel of Pliocene (?) age, overlying the Sykesville Formation of Precambrian age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 24 in., depth 35 ft, terracotta casing.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1989, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 410 ft above sea level, from topographic map. Measuring point: Inner flange of manhole, at land-surface datum.

REMARKS.--Water levels affected by water running into well from broken water main October 1992 to August 1993.

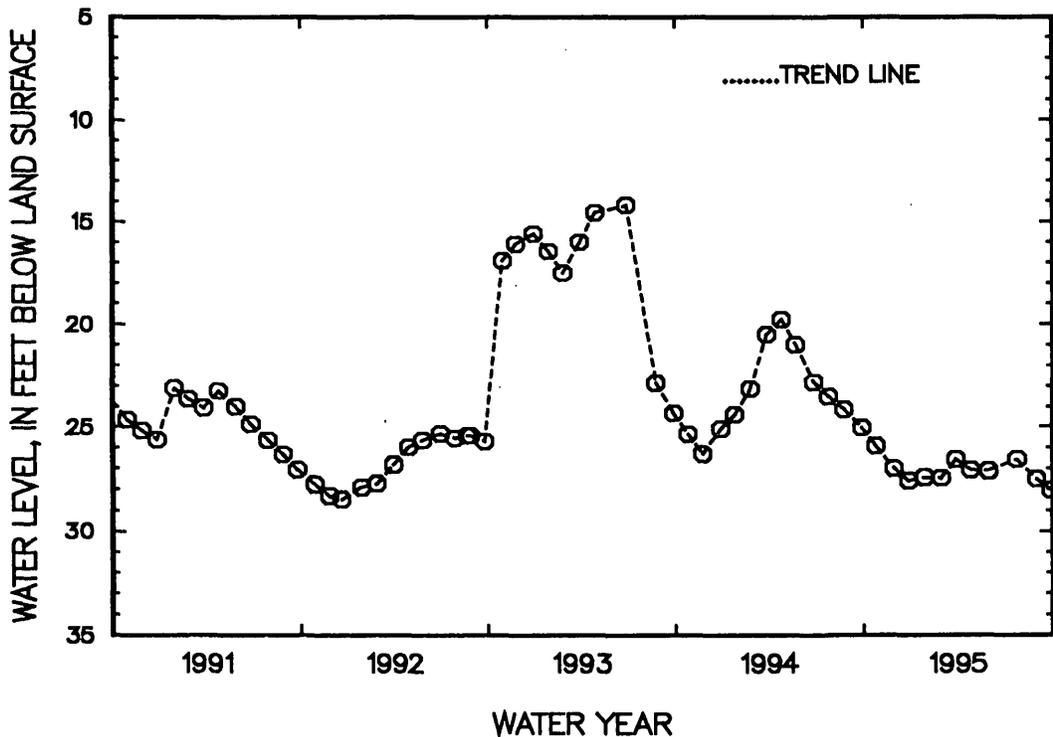
PERIOD OF RECORD.--October 1931 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.19 ft (result of broken water main) below land-surface datum, June 28, 1993; lowest measured, 34.81 ft below land-surface datum, Dec. 5, 1931.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 25	25.94	DEC 27	27.58	FEB 28	27.45	APR 26	27.07	JUL 24	26.57	SEP 27	28.04
NOV 29	26.99	JAN 27	27.42	MAR 28	26.56	MAY 30	27.10	AUG 30	27.51		

WATER YEAR 1995 HIGHEST 25.94 OCT 25, 1994 LOWEST 28.04 SEP 27, 1995



GROUND-WATER LEVELS

ARLINGTON COUNTY

385253077042301. Local number, 54V 3.

LOCATION.--Lat 38°52'53", long 77°04'23", Hydrologic Unit 02070010, at Arlington National Cemetery in Arlington.
Owner: National Park Service, National Capitol Parks.

AQUIFER.--Terrace gravels of Holocene age and sand of Early Cretaceous age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 48 in., depth 50 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1989, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 205 ft above sea level, from topographic map. Measuring point: Top of brick and stone casing, 3.0 ft above land-surface datum.

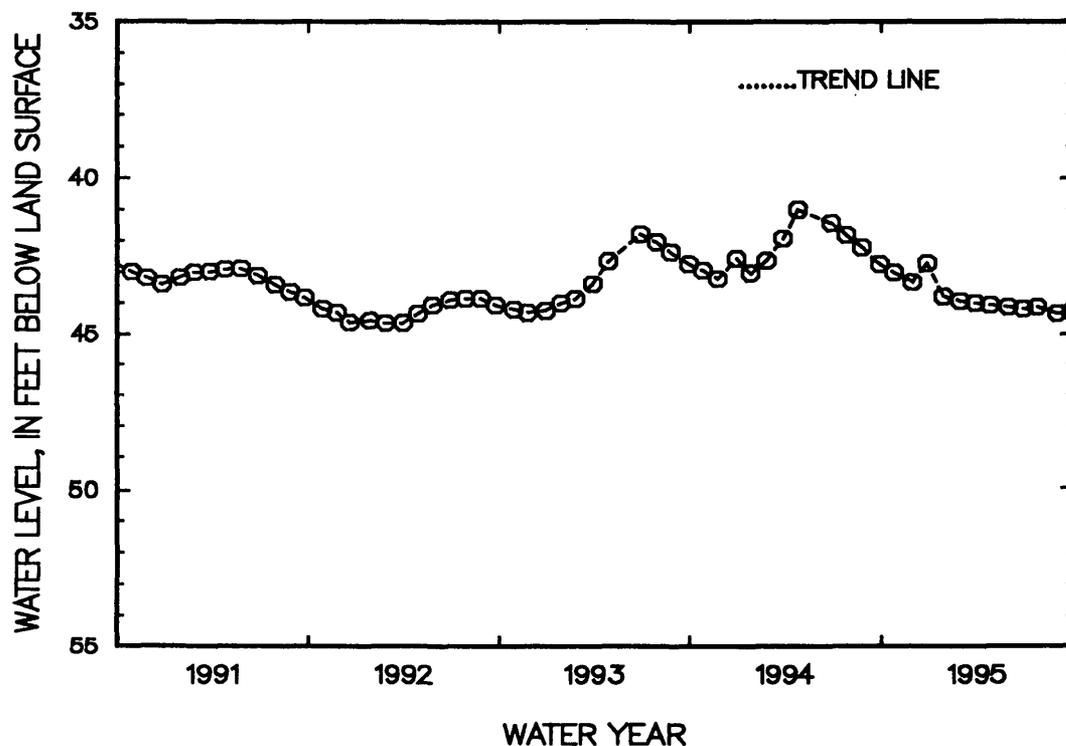
PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.34 ft below land-surface datum, June 26, 1978;
lowest measured, 45.28 ft below land-surface datum, Nov. 28, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 25	43.00	DEC 27	42.70	FEB 28	43.93	APR 26	44.07	JUN 27	44.19	AUG 30	44.33
NOV 29	43.30	JAN 27	43.78	MAR 28	44.00	MAY 30	44.12	JUL 24	44.13	SEP 27	44.29

WATER YEAR 1995 HIGHEST 42.70 DEC 27, 1994 LOWEST 44.33 AUG 30, 1995



AUGUSTA COUNTY

382523078535501. Local number, 38P 1 SOW 070.

LOCATION.--Lat 38°07'48", long 79°04'07", Hydrologic Unit 02070005, 100 ft east of State Highway 613, 0.5 mi south of intersection of State Highway 613 and U.S. Highway 11, and 0.9 mi south of Dogwood Hill. Owner: Augusta County Water Authority.

AQUIFER.--Beekmantown Group of Early Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 30 ft, diameter 6 in. from 30 to 97 ft, depth 250 ft, open hole from 97 to 250 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Jan. 10, 1974, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 1,490 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

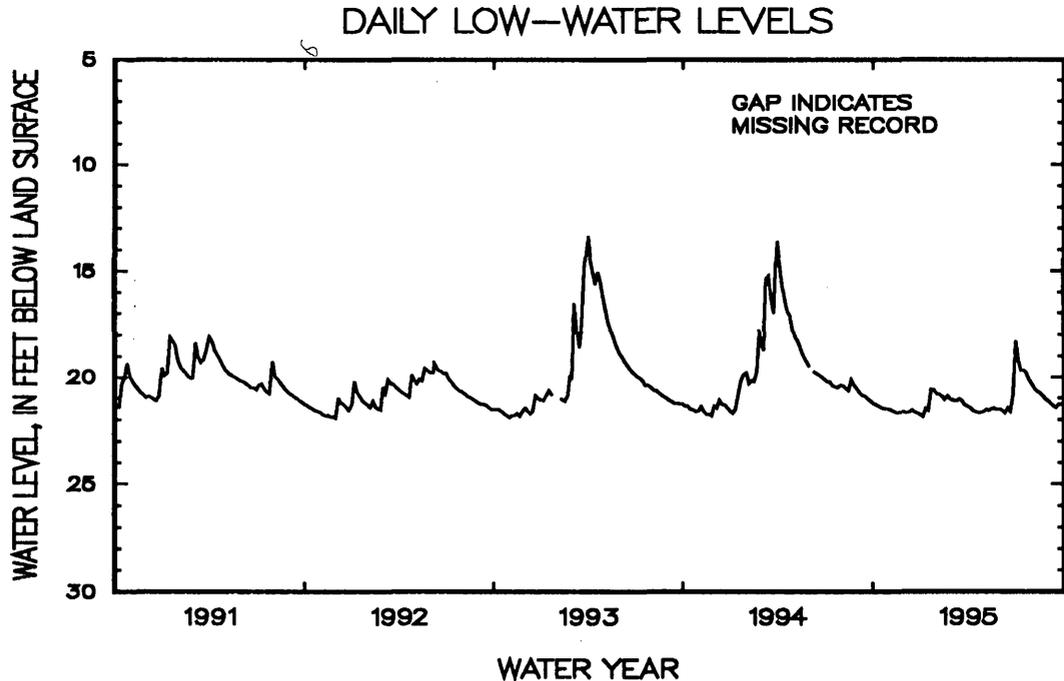
PERIOD OF RECORD.--December 1973 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.70 ft below land-surface datum, Apr. 25, 1987; lowest recorded, 27.02 ft below land-surface datum, Oct. 16, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.27	21.54	21.67	21.85	20.82	21.10	21.45	21.52	21.57	19.22	20.55	21.24
10	21.33	21.62	21.63	21.47	20.92	21.12	21.57	21.57	21.70	20.68	20.68	21.35
15	21.41	21.67	21.55	21.56	21.05	21.04	21.63	21.49	21.46	19.67	20.74	21.43
20	21.46	21.67	21.64	20.58	20.90	21.11	21.67	21.46	21.63	19.81	20.87	21.27
25	21.48	21.63	21.69	20.60	21.03	21.30	21.66	21.52	20.84	20.12	21.02	21.30
EOM	21.50	21.65	21.78	20.80	21.06	21.37	21.63	21.50	18.28	20.34	21.12	21.14

WATER YEAR 1995
 HIGHEST INSTANTANEOUS 18.06 JUN 29, 30, 1995
 LOWEST INSTANTANEOUS 21.85 JAN 05, 06, 1995



GROUND-WATER LEVELS

BUCHANAN COUNTY

370443082022301. Local number, 14E 40.

LOCATION.--Lat 37°04'43", long 82°02'23", Hydrologic Unit 05070202, 50 ft south of the intersection of State Highways 620 and 622, at Grissom School. Owner: U.S. Geological Survey.

AQUIFER.--Jawbone coal bed of Norton Formation of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 60 ft, cased to 14 ft, open hole 14 to 60 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. October 1986 to June 1988, occasional measurement with chalked tape by USGS personnel. August 1982 to September 1983, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 1,820 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to May 30, 1995; 6.74 thereafter.

PERIOD OF RECORD.--August 1982 to September 1983, October 1986 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

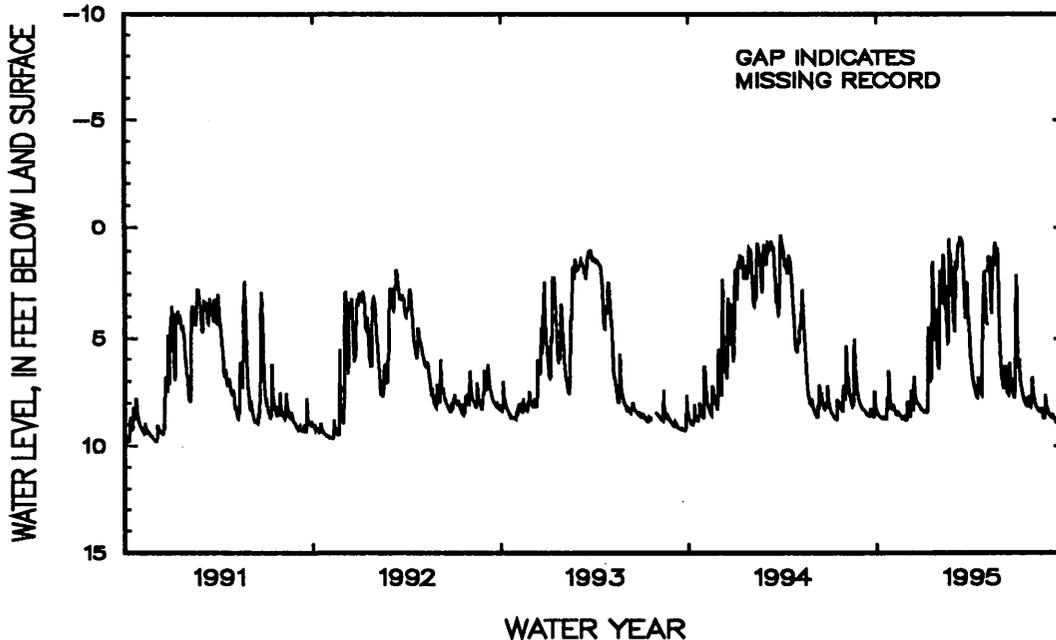
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.16 ft below land-surface datum, Feb. 16, 1995; lowest recorded, 11.49 ft below land-surface datum, Oct. 6, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.60	8.37	7.39	8.45	1.19	1.10	7.15	1.47	6.76	7.28	8.23	8.67
10	8.71	8.52	8.30	6.87	3.70	.65	7.66	2.20	7.59	7.82	8.38	8.91
15	8.72	8.61	7.91	1.86	5.12	1.25	7.28	.71	6.91	8.10	8.53	8.95
20	7.73	8.74	8.05	3.67	1.52	4.09	7.61	.93	7.62	7.96	7.61	8.75
25	7.73	8.79	8.30	5.73	4.06	4.03	1.88	5.47	2.07	6.98	8.37	7.86
EOM	8.30	8.44	8.40	2.16	3.39	6.20	4.34	7.19	6.34	7.93	8.63	8.31

WATER YEAR 1995
 HIGHEST INSTANTANEOUS 0.16 FEB 16, 1995
 LOWEST INSTANTANEOUS 8.95 SEP 15, 16, 1995

DAILY LOW-WATER LEVELS



BUCKINGHAM COUNTY

372541078392101. Local number, 41H 1.

LOCATION.--Lat 37°25'41", long 78°39'21", Hydrologic Unit 02080207, 200 ft east of State Highway 640, 2.6 mi southeast of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 83 ft, diameter 1.25 in. from 83 to 88 ft, depth 88 ft, screened 83 to 88 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder--60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 660 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

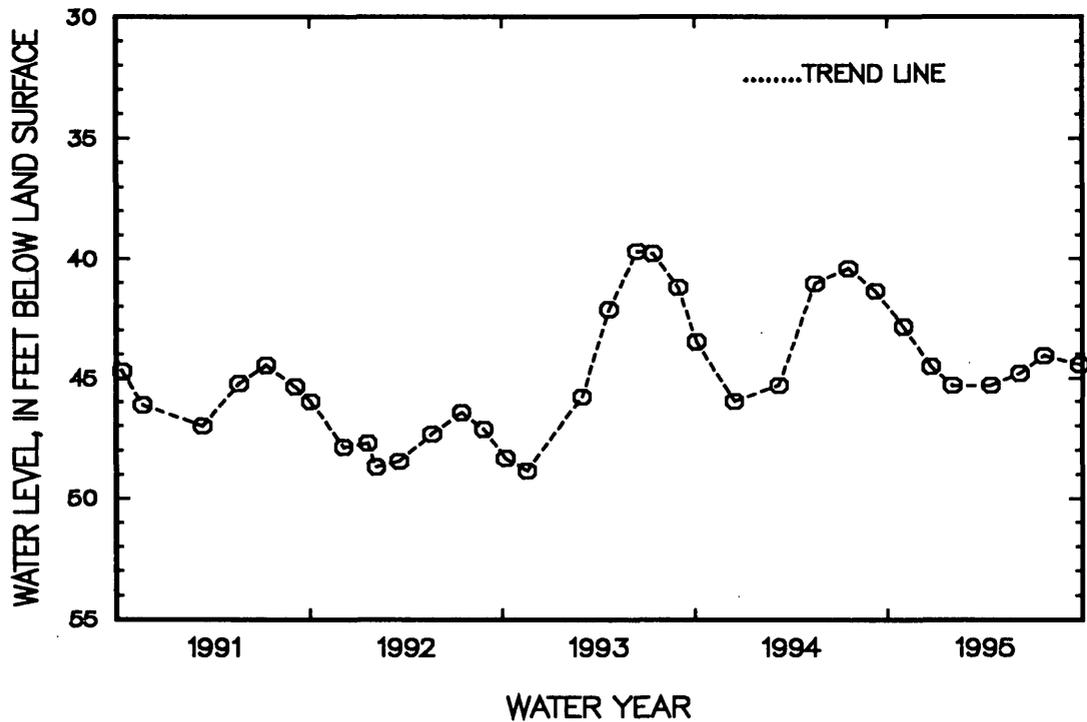
PERIOD OF RECORD.--March 1970 to September 1995 (discontinued). Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 30.95 ft below land-surface datum, May 20, 1973; lowest measured, 50.81 ft below land-surface datum, Mar. 8, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	42.85	JAN 31	45.30	APR 13	45.30	JUN 06	44.80	JUL 21	44.05	SEP 26	44.43
DEC 22	44.50										

WATER YEAR 1995 HIGHEST 42.85 OCT 31, 1994 LOWEST 45.30 JAN 31, APR 13, 1995



GROUND-WATER LEVELS

BUCKINGHAM COUNTY

372608078404601. Local number, 41H 3.

LOCATION.--Lat 37°26'08", long 78°40'46", Hydrologic Unit 02080207, 0.85 mi west of Ranger Headquarters on south side of dirt road off State Highway 636, 1.5 mi south of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 49 ft, diameter 1.25 in. from 49 to 54 ft, depth 54 ft, screened 49 to 54 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder--60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 683.8 ft above sea level. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Prior to Oct. 1, 1981, well was reported as being located in Appomattox County.

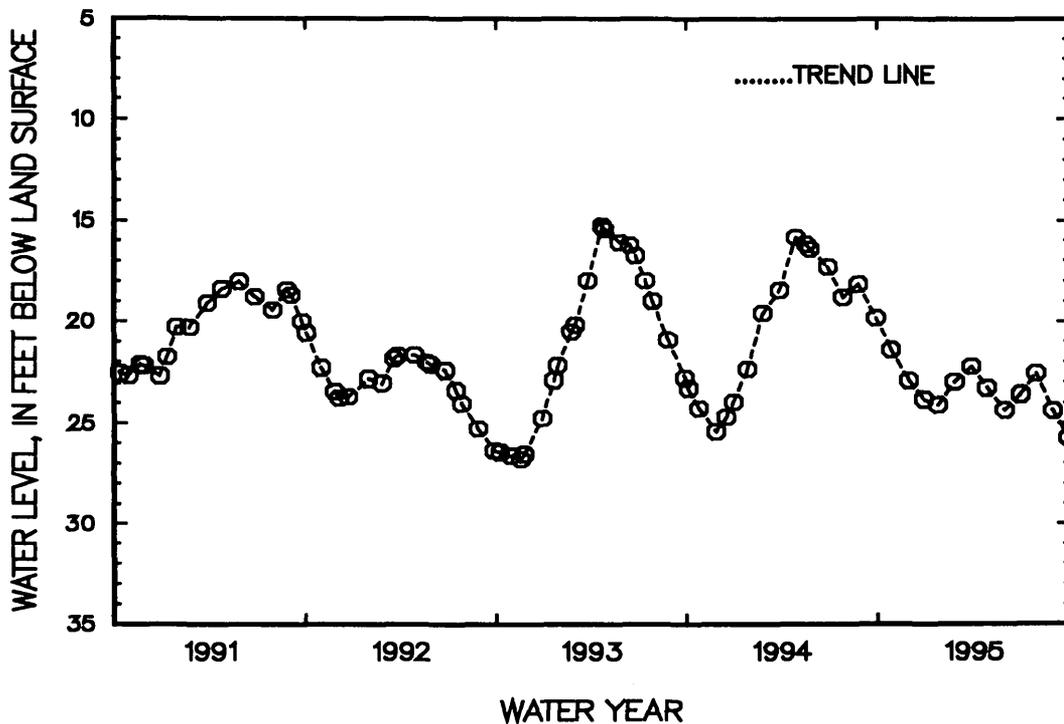
PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.31 ft below land-surface datum, Apr. 12, 1973; lowest measured, 28.30 ft below land-surface datum, Oct. 17, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 26	21.43	DEC 28	23.82	FEB 24	23.00	APR 26	23.29	JUN 29	23.60	AUG 29	24.38
NOV 29	22.93	JAN 24	24.09	MAR 28	22.26	MAY 30	24.34	JUL 28	22.60	SEP 26	25.74

WATER YEAR 1995 HIGHEST 21.43 OCT 26, 1994 LOWEST 25.74 SEP 26, 1995



BUCKINGHAM COUNTY

372519078374001. Local number, 41H 4.

LOCATION.--Lat 37°25'19", long 78°37'40", Hydrologic Unit 02080207, 0.65 mi northeast of Holiday Creek, 0.85 mi southeast of State Highway 636 off State Highway 614, and 4.0 mi southeast of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 72 ft, diameter 1.25 in. from 72 to 77 ft, depth 77 ft, screened 72 to 77 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder--60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 647 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

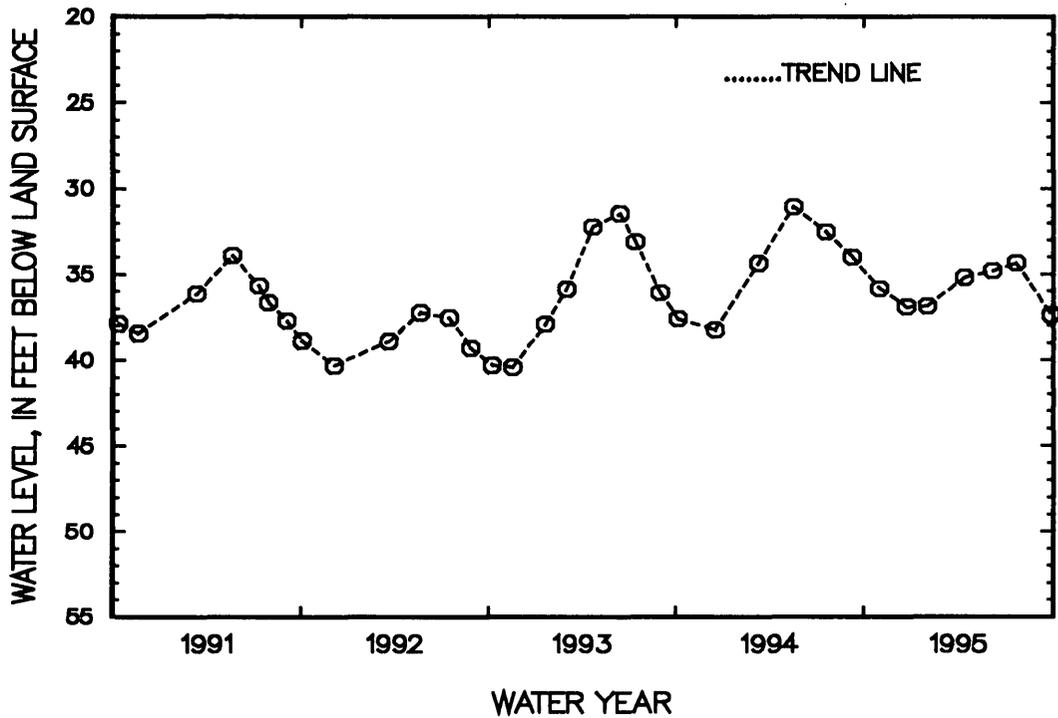
PERIOD OF RECORD.--March 1970 to September 1995 (discontinued. Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.45 ft below land-surface datum, May 1, 1980; lowest measured, 48.13 ft below land-surface datum, Mar. 30, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	35.85	JAN 31	36.87	APR 13	35.20	JUN 06	34.80	JUL 21	34.35	SEP 26	37.39
DEC 22	36.92										

WATER YEAR 1995 HIGHEST 34.35 JUL 21, 1995 LOWEST 37.39 SEP 26, 1995



GROUND-WATER LEVELS

CAROLINE COUNTY

380239077193101. Local number, 52N 1.

LOCATION.--Lat 38°02'49", long 77°18'29", Hydrologic Unit 02080105, 0.2 mi north of the intersection of State Highways 619 and 667 near the old ammunition supply point at Fort A. P. Hill near Bowling Green and 3.7 mi southeast of the intersection of U.S. Highway 301 and South Range Road. Owner: U.S. Department of the Army.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 278 ft, depth of screens unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Mar. 10, 1988, to June 1, 1990, annual measurement with chalked tape. Apr. 30, 1974, to Aug. 5, 1986, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division. Prior to Apr. 30, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 200 ft above sea level, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum. Prior to Aug. 5, 1986, measuring point was 0.3 ft above land-surface datum. Measuring point changed when the U.S. Department of the Army added 1.4 ft of casing sometime between Aug. 5, 1986, and Mar. 10, 1988.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Aug. 5, 1986; U.S. Geological Survey after Mar. 10, 1988. Water level affected by regional drawdown.

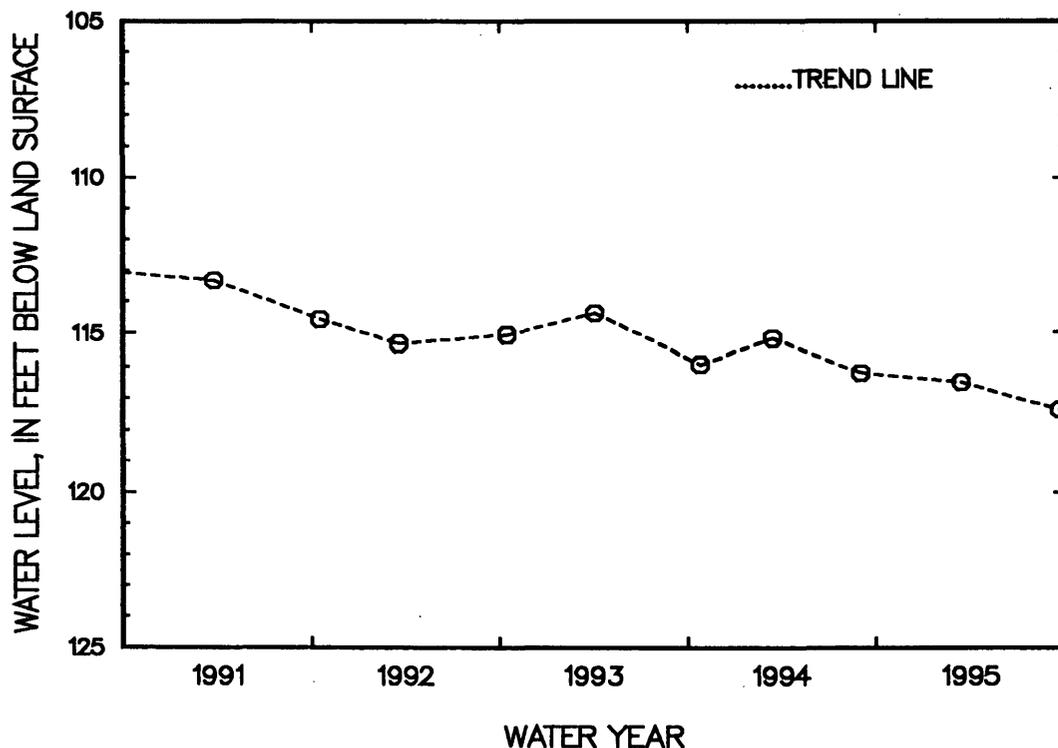
PERIOD OF RECORD.--September 1971 to August 1986, March 1988 to September 1995 (discontinued). Unpublished records available prior to August 1986 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 102.47 ft below land-surface datum, Sept. 1, 1973; lowest measured, 117.39 ft below land-surface datum, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	116.53	SEP 19	117.39

WATER YEAR 1995 HIGHEST 116.53 MAR 14, 1995 LOWEST 117.39 SEP 19, 1995



CAROLINE COUNTY

380624077172801. Local number, 52N 5.

LOCATION.--Lat 38°06'24", long 77°17'28", Hydrologic Unit 02080104, in block pumphouse under water tank at Camp Wilcox at Fort A. P. Hill, 1.1 mi north of U.S. Highway 301, and near Bowling Green. Owner: U.S. Department of the Army.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to unknown depth, diameter 4 in. from unknown depth to 524 ft, depth 524 ft, screened 468 to 501 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 210 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

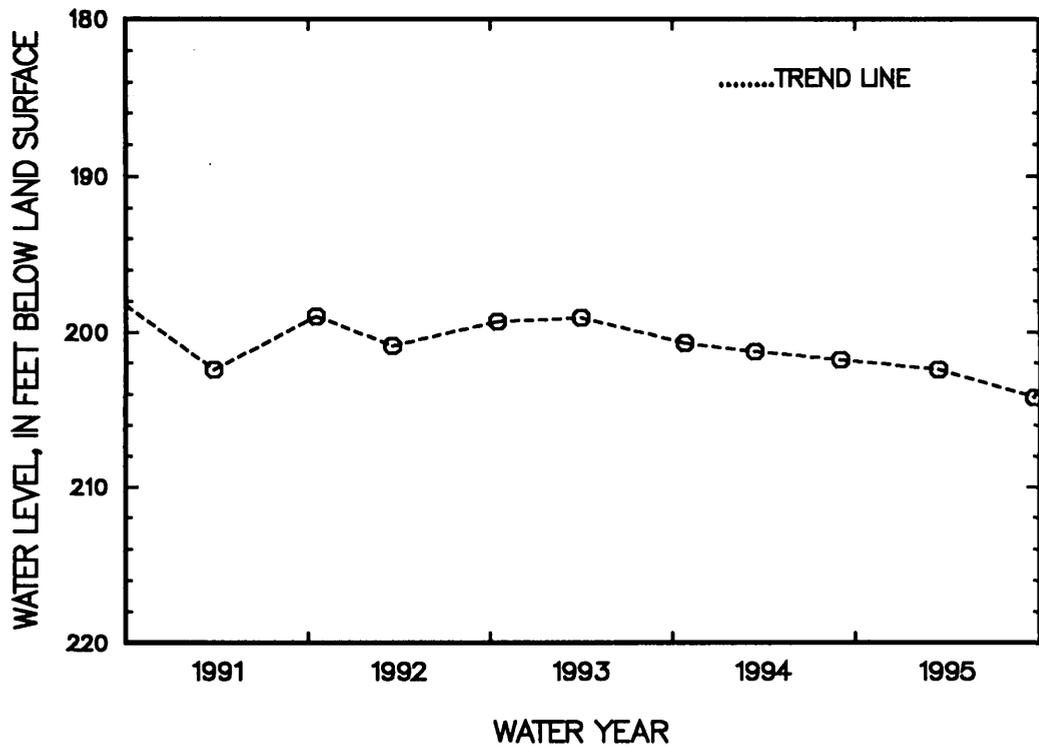
PERIOD OF RECORD.--December 1971 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 172.20 ft below land-surface datum, Dec. 16, 1971; lowest measured, 207.48 ft below land-surface datum, Mar. 19, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	202.40	SEP 19	204.18

WATER YEAR 1995 HIGHEST 202.40 MAR 14, 1995 LOWEST 204.18 SEP 19, 1995



GROUND-WATER LEVELS

CAROLINE COUNTY

380415077194101. Local number, 52N 6.

LOCATION.--Lat 38°04'15", long 77°19'41", Hydrologic Unit 02080105, on the southwest corner of the intersection of Burke Street and Second Street in the headquarters area of Fort A. P. Hill near Bowling Green. Owner: U.S. Department of the Army.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 480 ft, diameter 3 in. from 446 to 500 ft, depth 500 ft, screened 488 to 498 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 214 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

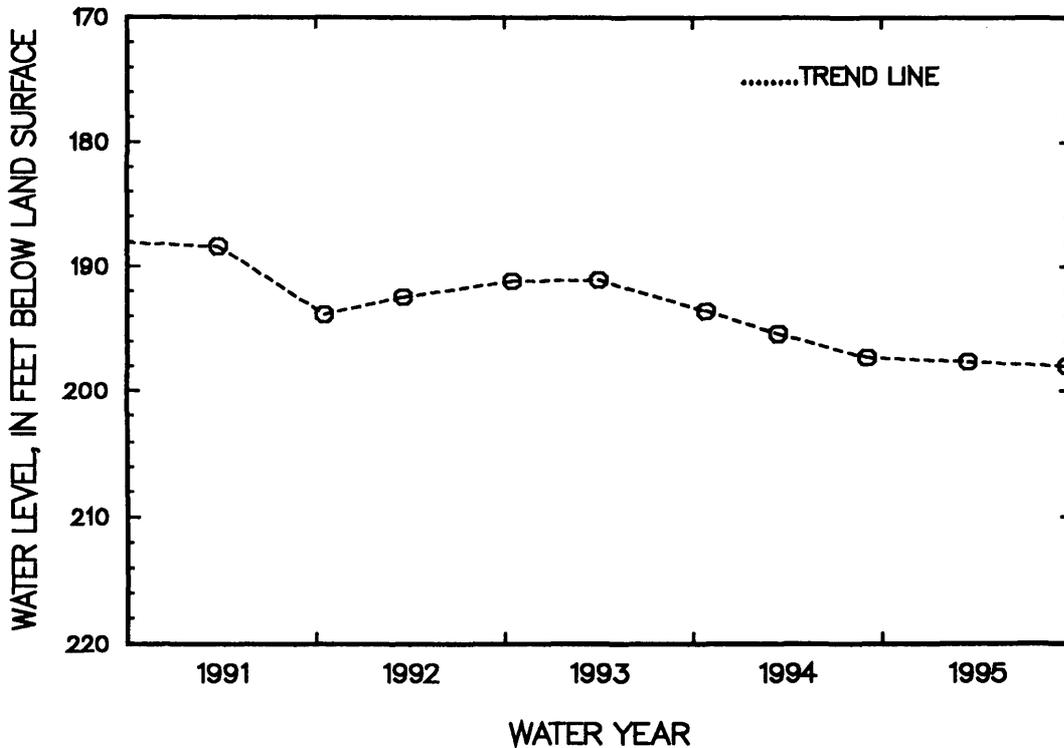
PERIOD OF RECORD.--December 1971 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 158.65 ft below land-surface datum, Feb. 10, 1982; lowest measured, 207.74 ft below land-surface datum, Mar. 19, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	197.63	SEP 19	198.00

WATER YEAR 1995 HIGHEST 197.63 MAR 14, 1995 LOWEST 198.00 SEP 19, 1995



CAROLINE COUNTY

380836077211401. Local number, 52P 10.

LOCATION.--Lat 38°08'36", long 77°21'14", Hydrologic Unit 02080104, on the northwest corner of the intersection of A. P. Hill Drive and Jackson Drive, 6.8 mi northwest of the intersection of U.S. Highway 301 and A. P. Hill Drive at Liberty Corner at Fort A. P. Hill near Bowling Green. Owner: U.S. Department of the Army.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 702 ft, screened 544 to 552 ft, 603 to 612 ft, 648 to 657 ft, open hole 666 to 702 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 222 ft above sea level, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum.

REMARKS.--Water level may be affected by regional drawdown.

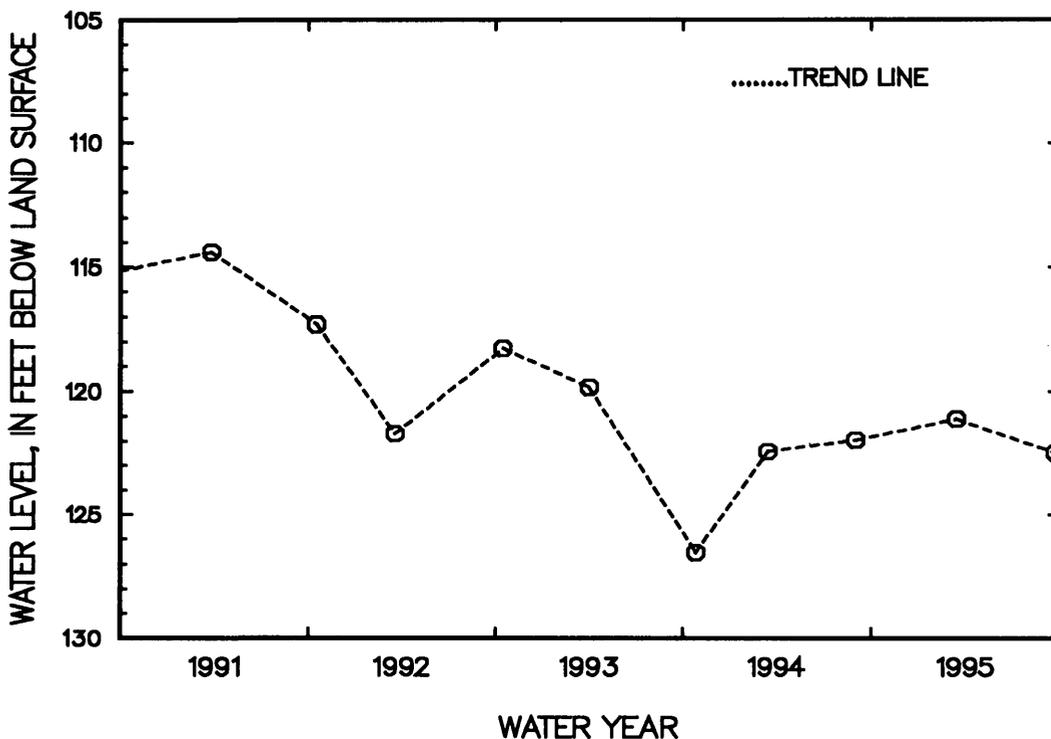
PERIOD OF RECORD.--March 1986 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.94 ft below land-surface datum, Mar. 30, 1989; lowest measured, 126.53 ft below land-surface datum, Oct. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	121.10	SEP 19	122.47

WATER YEAR 1995 HIGHEST 121.10 MAR 14, 1995 LOWEST 122.47 SEP 19, 1995



GROUND-WATER LEVELS

CHARLES CITY COUNTY

371956077055203. Local number, 54G 11 SOW 066.

LOCATION.--Lat 37°19'56", long 77°05'52", Hydrologic Unit 02080206, 0.6 mi east of Bowens Store on State Highway 5, 1.6 mi west of Charles City. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle and lower Potomac aquifers of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 540 ft, screened 290 to 310 ft, 404 to 424 ft, 486 to 496 ft, 510 to 530 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 10, 1995, bimonthly measurement with chalked tape. June 5, 1976, to Sept. 30, 1985, occasional measurement with chalked tape. Jan. 10, 1974, to June 5, 1976, continuous strip-chart recorder. Prior to Jan. 10, 1974, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 54 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

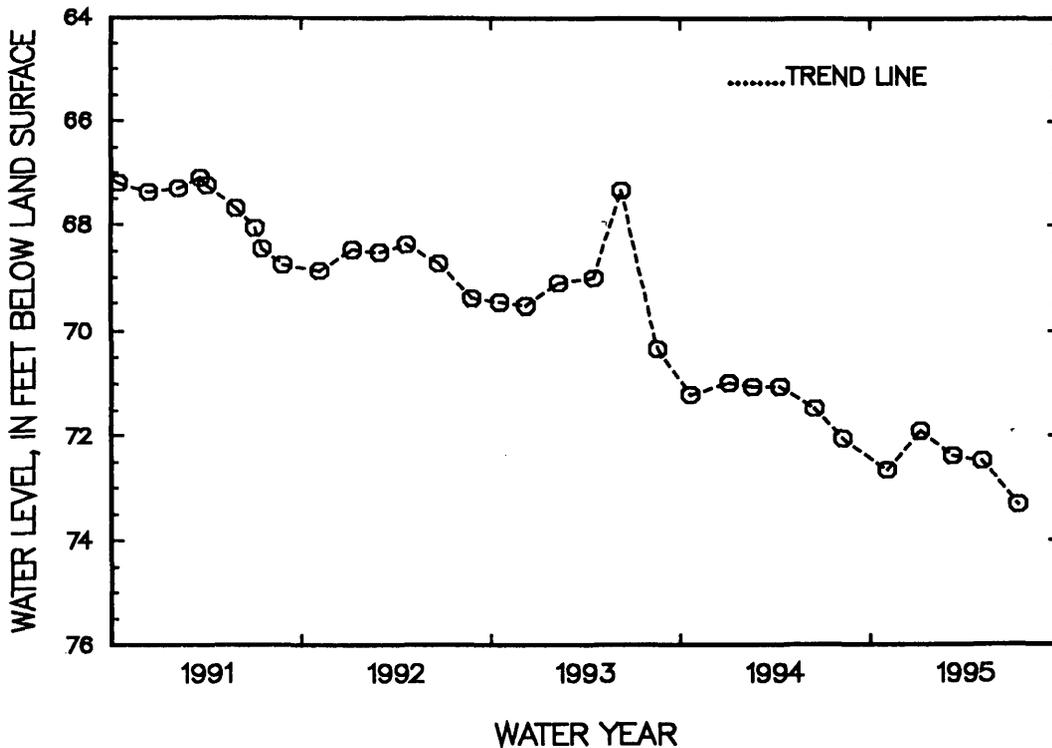
PERIOD OF RECORD.--May 1973 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.07 ft below land-surface datum, May 1, 1973; lowest measured, 73.31 ft below land-surface datum, July 10, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	72.65	JAN 06	71.90	MAR 08	72.37	MAY 03	72.47	JUL 10	73.31

WATER YEAR 1995 HIGHEST 71.90 JAN 06, 1995 LOWEST 73.31 JUL 10, 1995



CHARLES CITY COUNTY

371956076055101. Local number, 54G 13 SOW 067.

LOCATION.--Lat 37°19'56", long 77°05'51", Hydrologic Unit 02080206, 0.6 mi east of Bowens Store on State Highway 5, 1.6 mi southwest of Charles City. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 227 ft, screened 222 to 227 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 2.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

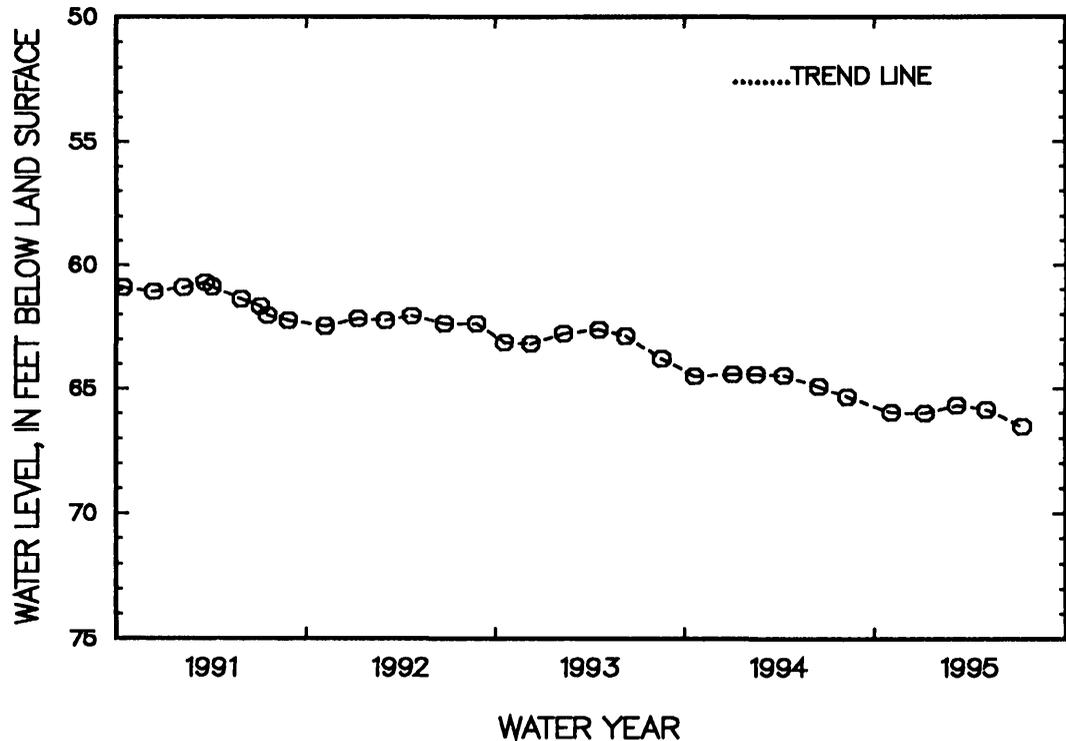
PERIOD OF RECORD.--June 1973 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.63 ft below land-surface datum, June 7, 1973; lowest measured, 66.53 ft below land-surface datum, July 10, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	65.97	JAN 06	65.99	MAR 08	65.68	MAY 03	65.85	JUL 10	66.53

WATER YEAR 1995 HIGHEST 65.68 MAR 08, 1995 LOWEST 66.53 JUL 10, 1995



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364852076252201. Local number, 59C 29 SOW 163A.

LOCATION.--Lat 36°48'52", long 76°25'22", Hydrologic Unit 02080208, 0.7 mi southeast of intersection of State Highways 191 and 337 in Chesapeake. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 35 ft, screened 25 to 35 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 21, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Aug. 21, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

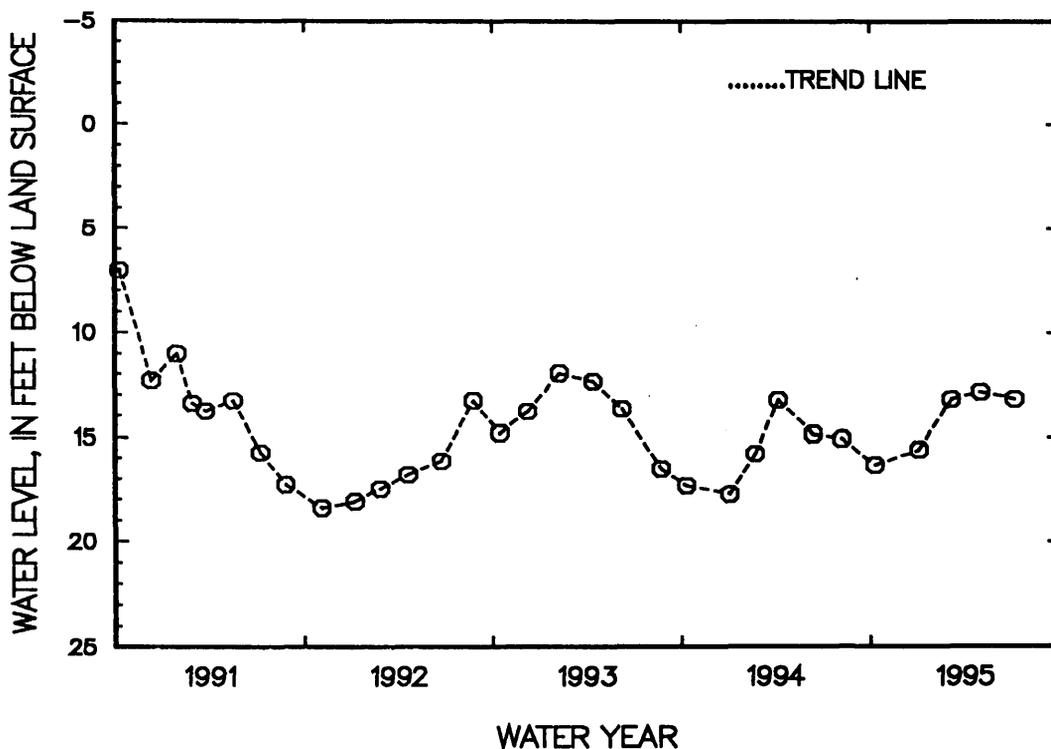
PERIOD OF RECORD.--November 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.70 ft below land-surface datum, Mar. 14, 1989; lowest measured, 18.39 ft below land-surface datum, Nov. 5, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	16.32	JAN 03	15.58	MAR 06	13.17	MAY 01	12.82	JUL 05	13.17

WATER YEAR 1995 HIGHEST 12.82 MAY 01, 1995 LOWEST 16.32 OCT 11, 1994



CITY OF CHESAPEAKE

364621076273201. Local number, 59C 36.

LOCATION.--Lat 36°46'21", long 76°27'32", Hydrologic Unit 02080208, 2.5 mi southwest of the intersection of U.S. Highways 13, 58, 460, and Interstate Highways 264 and 64 near Bowers Hills in the city of Chesapeake. Owner: City of Chesapeake.

AQUIFER.--Brightseat-upper and middle Potomac aquifers of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 880 ft, screened 602 to 607 ft, 659 to 664 ft, 706 to 716 ft, 800 to 805 ft, 854 to 859 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1986, recorder by city of Chesapeake.

DATUM.--Elevation of land-surface datum is 22 ft above sea level, from topographic map. Measuring point: Top of casing, 3.2 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

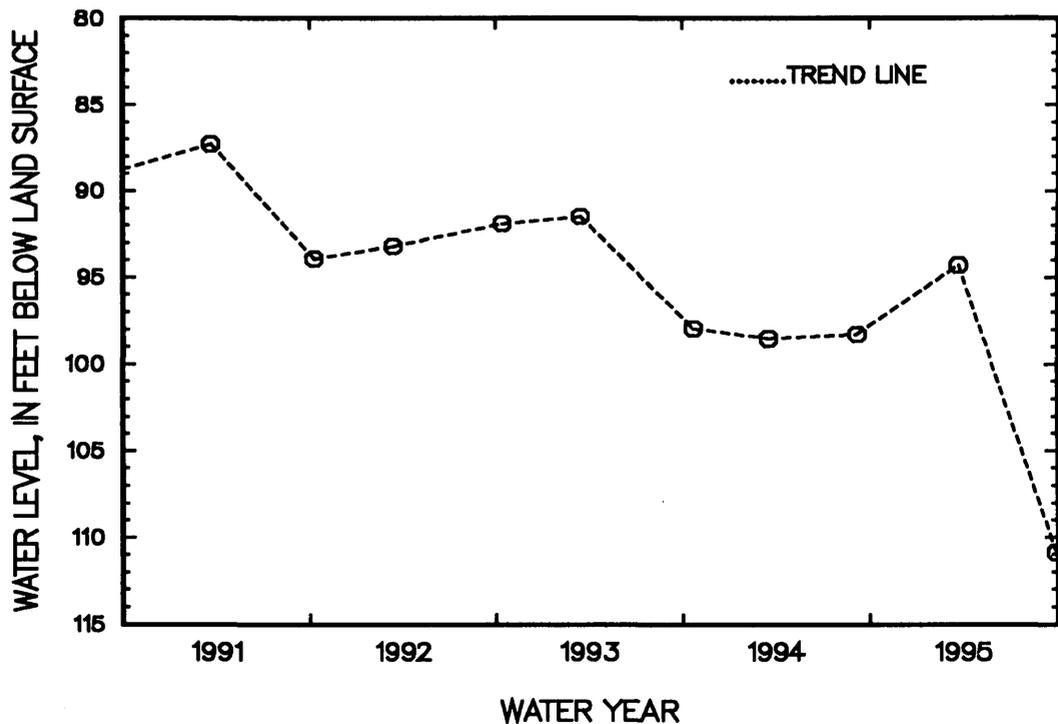
PERIOD OF RECORD.--August 1986 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 85.46 ft below land-surface datum, Aug. 20, 25, 1986; lowest measured, 110.89 ft below land-surface datum, Sept. 27, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	94.30	SEP 27	110.89

WATER YEAR 1995 HIGHEST 94.30 MAR 23, 1995 LOWEST 110.89 SEP 27, 1995



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

363836076201701. Local number, 60B 3 SOW 090A.

LOCATION.--Lat 36°38'36", long 76°20'17", Hydrologic Unit 03010205, 0.15 mi north of intersection of Benefit and West Roads, 1.5 mi north of Cornland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 855 ft, screened 824 to 834 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 25, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 16 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

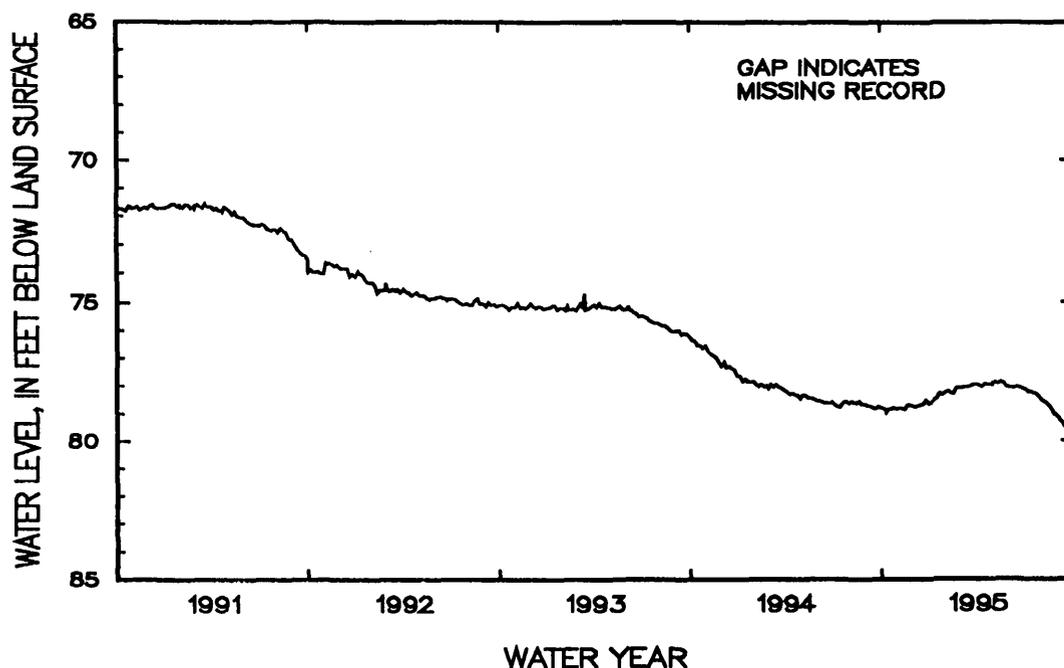
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.80 ft below land-surface datum, July 11, 1978; lowest recorded, 78.84 ft below land-surface datum, Sept. 20, 21, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	78.82	78.82	78.77	78.63	78.20	78.09	78.01	77.88	78.08	78.20	78.60	79.30
10	78.88	78.83	78.74	78.52	78.28	78.07	78.05	77.93	78.09	78.22	78.65	79.40
15	78.85	78.87	78.70	78.47	78.31	78.05	77.95	77.86	78.05	78.28	78.75	79.56
20	78.84	78.71	78.68	78.28	78.10	78.02	77.96	77.90	78.08	78.30	78.88	79.60
25	78.80	78.71	78.54	78.34	78.08	77.97	77.96	78.03	78.10	78.38	79.05	79.62
EOM	78.85	78.74	78.66	78.25	78.08	77.97	77.99	78.07	78.14	78.53	79.14	79.76

WATER YEAR 1995 HIGHEST INSTANTINEOUS 77.76 MAY 02, 1995 LOWEST 79.76 SEP 30, 1995

DAILY LOW-WATER LEVELS



CITY OF CHESAPEAKE

363836076201702. Local number, 60B 4 SOW 090B.

LOCATION.--Lat 36°38'36", long 76°20'17", Hydrologic Unit 03010205, 0.15 mi north of intersection of Benefit and West Roads, 1.5 mi north of Cornland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 556 ft, screened 525 to 535 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 16 ft above sea level, from topographic map. Measuring point: Top of casing, 2.05 ft above land-surface datum prior to Mar. 2, 1988; 1.2 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

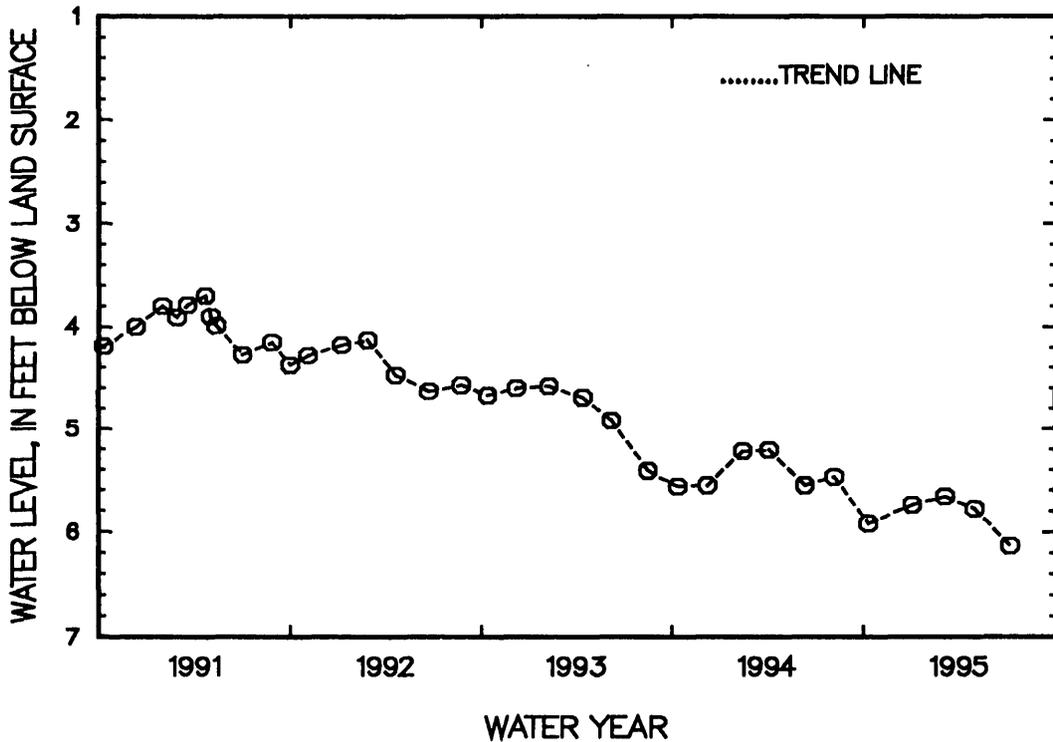
PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.20 ft above land-surface datum, Feb. 1, 1978; lowest measured, 6.13 ft below land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	5.92	JAN 03	5.74	MAR 06	5.66	MAY 01	5.78	JUL 06	6.13

WATER YEAR 1995 HIGHEST 5.66 MAR 06, 1995 LOWEST 6.13 JUL 06, 1995



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364615076182101. Local number, 60C 41 SOW 164.

LOCATION.--Lat 36°46'15", long 76°18'21", Hydrologic Unit 02080208, 50 ft north of entrance road to Virginia Power powerplant, 500 ft south of Military Highway in Chesapeake. Owner: Virginia Power.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 400 ft, diameter 4 in. from 400 to 928 ft, depth 928 ft, screened 770 to 780 ft, 875 to 885 ft, 918 to 928 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Nov. 25, 1982, monthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum prior to July 15, 1987; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--February 1982 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

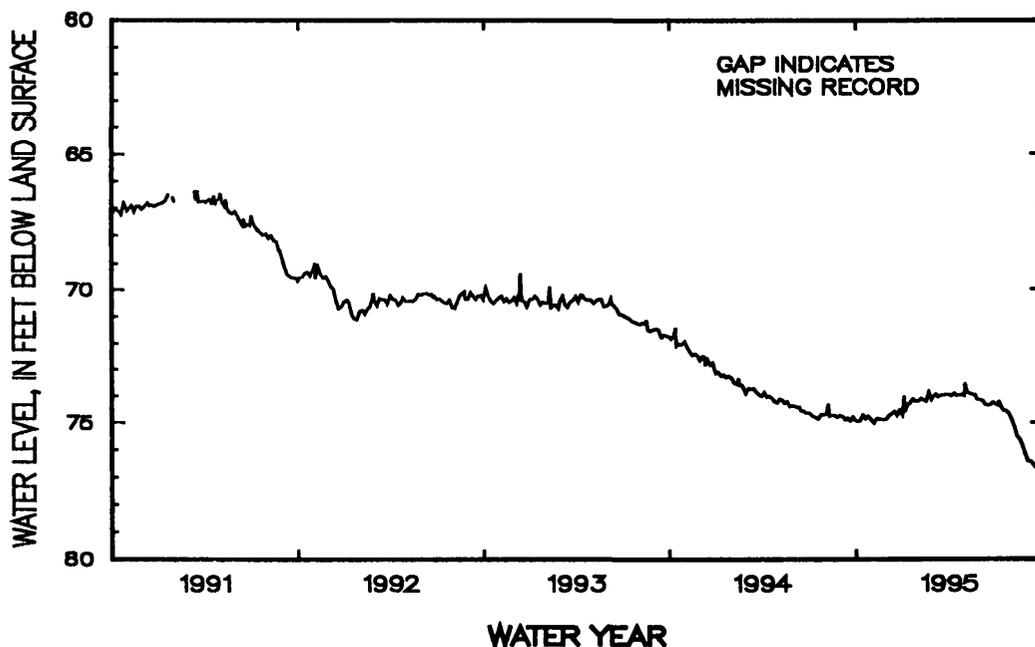
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 55.22 ft below land-surface datum, Mar. 15, 1983; lowest recorded, 74.93 ft below land-surface datum, Sept. 20, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.95	75.02	74.73	74.58	74.10	73.95	73.99	73.85	74.20	74.36	75.16	76.41
10	74.92	74.85	74.67	74.33	74.15	74.03	73.90	73.90	74.34	74.41	75.50	76.50
15	74.72	74.86	74.59	74.26	74.20	73.98	73.98	73.94	74.35	74.55	75.60	76.65
20	74.85	74.87	74.73	74.12	73.87	73.96	73.96	73.95	74.32	74.56	75.79	76.75
25	74.76	74.88	74.55	74.20	74.13	73.95	73.95	74.14	74.24	74.65	76.10	76.83
EOM	74.89	74.86	74.72	74.19	74.03	73.95	73.99	74.15	74.33	74.89	76.39	77.05

WATER YEAR 1995 HIGHEST INSTANTANEOUS 73.29 MAY 02, 1995 LOWEST INSTANTANEOUS 77.07 SEP 28, 1995

DAILY LOW-WATER LEVELS



CITY OF CHESAPEAKE

363502076091201. Local number, 61A 3 SOW 132.

LOCATION.--Lat 36°35'02", long 76°09'12", Hydrologic Unit 03010205, 250 ft south of Indian Creek Road, 0.2 mi southeast of entrance to Northwest River Park, and 3.0 mi southeast of Saint Brides. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 1.5 in., depth 36 ft, screened 28 to 36 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 23, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Aug. 23, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum prior to Mar. 2, 1988; 0.15 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

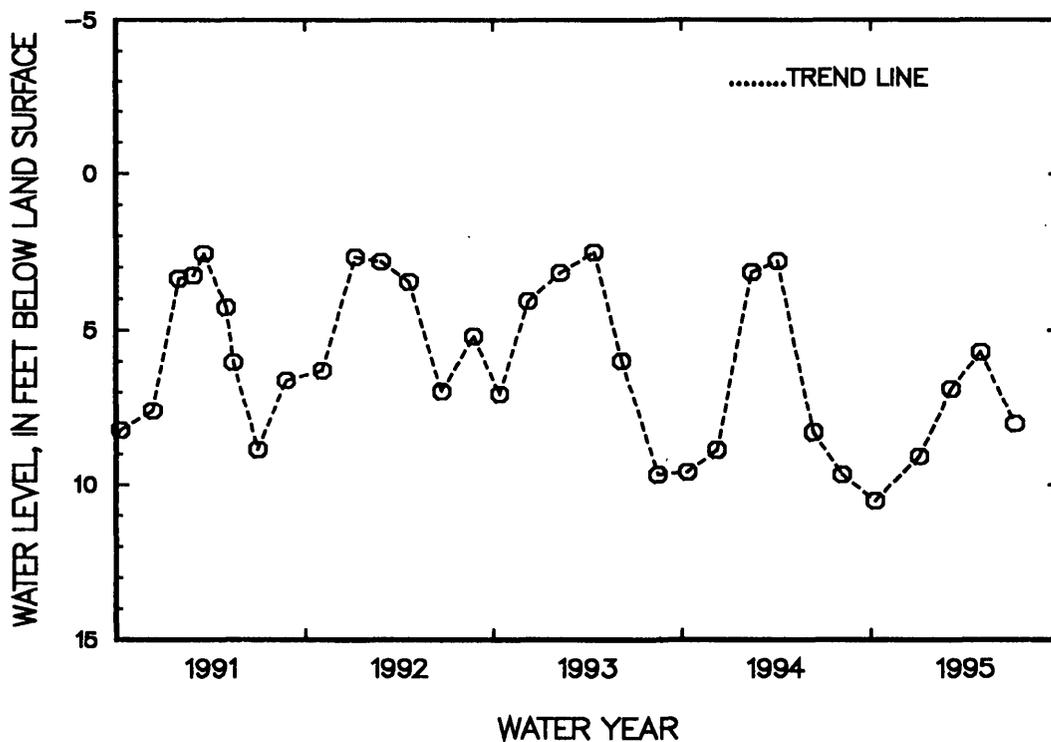
PERIOD OF RECORD.--May 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.95 ft below land-surface datum, Jan. 24, 1980; lowest measured, 10.51 ft below land-surface datum, Oct. 11, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	10.51	JAN 03	9.08	MAR 06	6.88	MAY 01	5.69	JUL 05	8.02

WATER YEAR 1995 HIGHEST 5.69 MAY 01, 1995 LOWEST 10.51 OCT 11, 1994



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364227076074701. Local number, 61B 2 SOW 091A.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Pentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 97 ft, screened 92 to 97 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.05 ft above land-surface datum prior to Jan. 11, 1989; 0.75 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

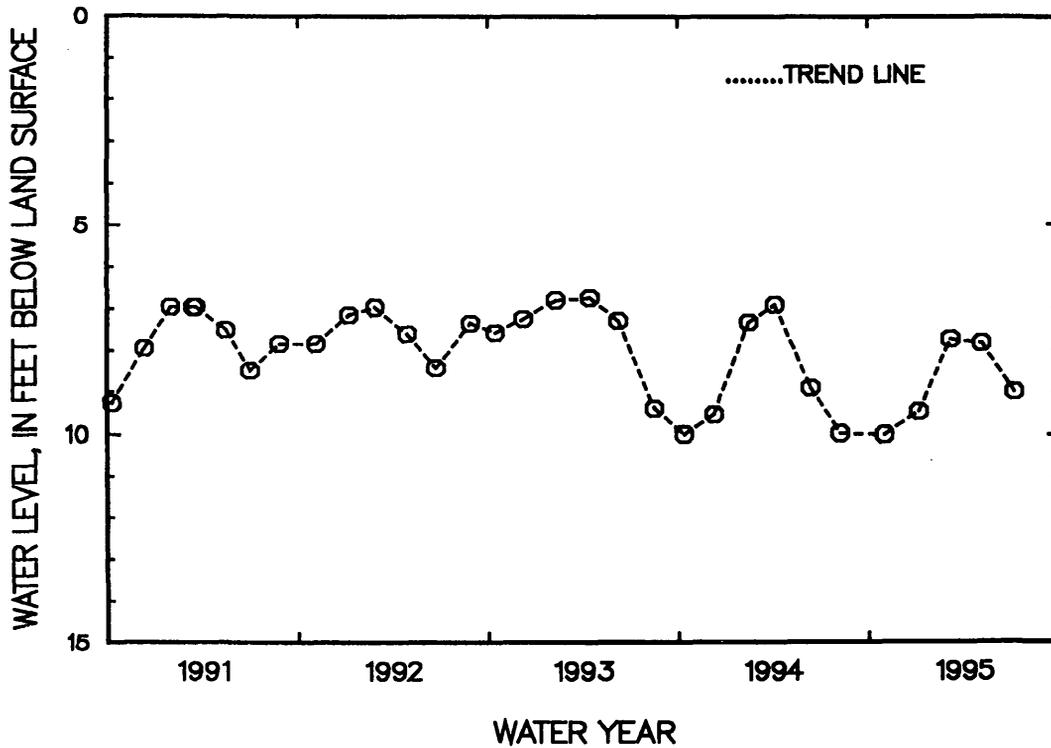
PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.01 ft below land-surface datum, Oct. 16, 1979; lowest measured, 10.30 ft below land-surface datum, Sept. 18, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	10.00	JAN 05	9.47	MAR 07	7.74	MAY 05	7.84	JUL 06	9.00

WATER YEAR 1995 HIGHEST 7.74 MAR 07, 1995 LOWEST 10.00 NOV 01, 1994



CITY OF CHESAPEAKE

364227076074702. Local number, 61B 5 SOW 091B.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,060 ft, screened 1,040 to 1,060 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

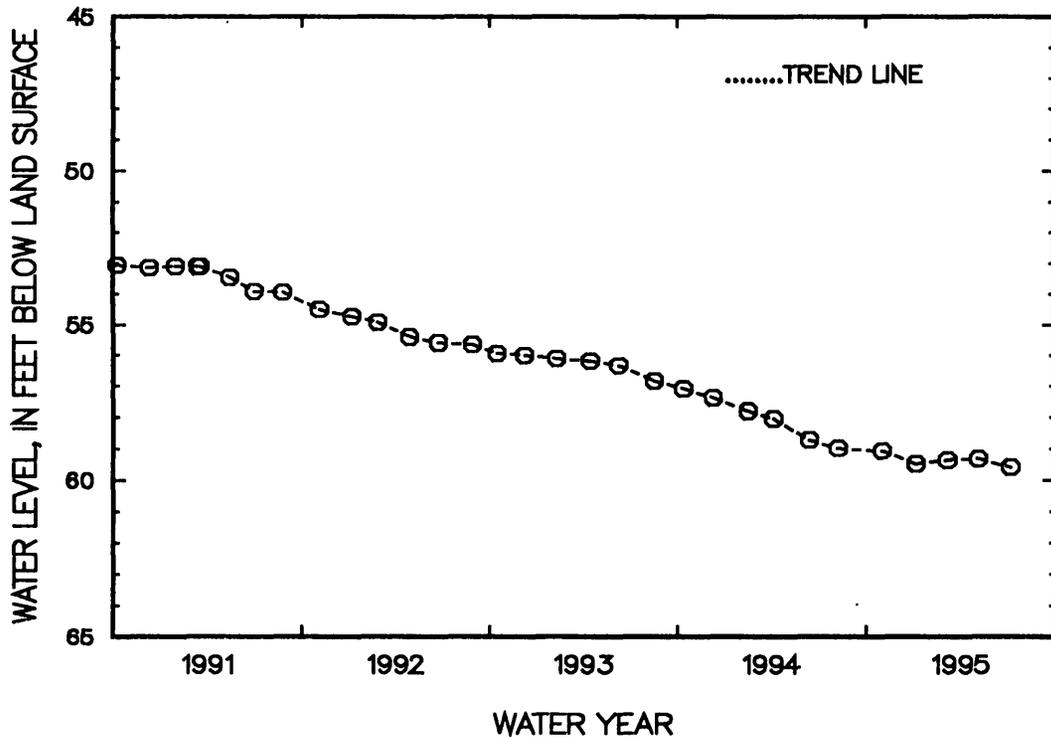
PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.83 ft below land-surface datum, Aug. 28, 1980; lowest measured, 59.59 ft below land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	59.07	JAN 05	59.48	MAR 07	59.36	MAY 05	59.32	JUL 06	59.59

WATER YEAR 1995 HIGHEST 59.07 NOV 01, 1994 LOWEST 59.59 JUL 06, 1995



CITY OF CHESAPEAKE

364227076074704. Local number, 61B 7 SOW 091D.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 22 ft, screened 17 to 22 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

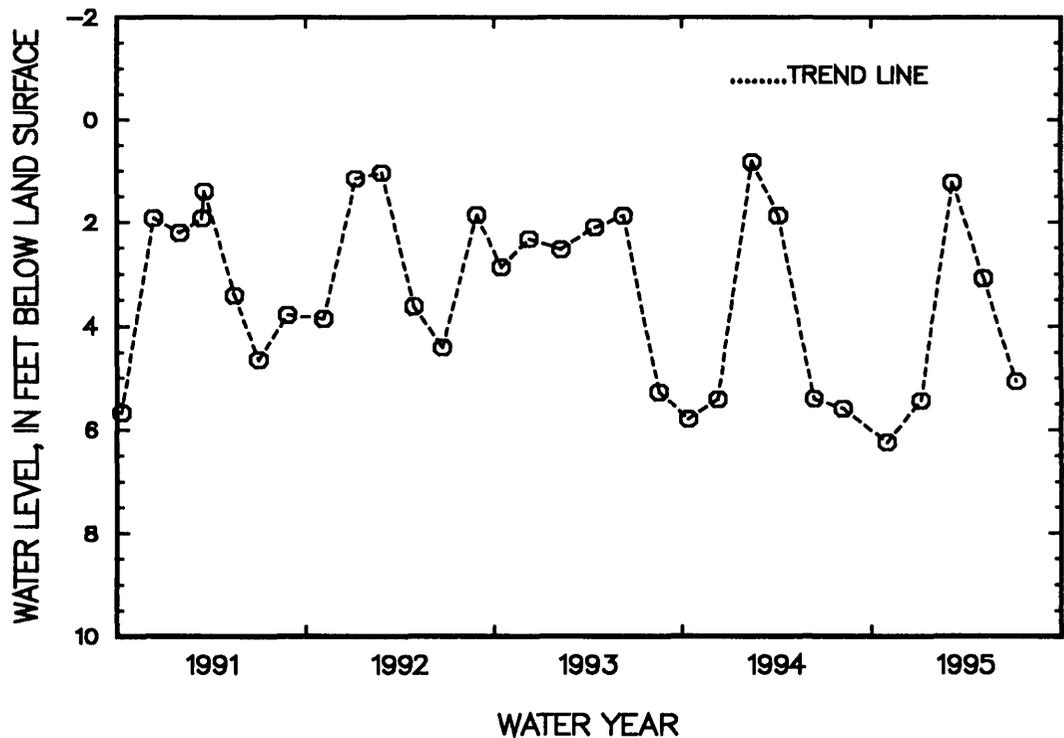
PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.35 ft below land-surface datum, Mar. 13, 1989; lowest measured, 6.24 ft below land-surface datum, Nov. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	6.24	JAN 05	5.43	MAR 07	1.23	MAY 05	3.08	JUL 06	5.06

WATER YEAR 1995 HIGHEST 1.23 MAR 07, 1995 LOWEST 6.24 NOV 01, 1994



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364231076140801. Local number, 61B 8 SOW 134.

LOCATION.--Lat 36°42'31", long 76°14'08", Hydrologic Unit 03010205, at Great Bridge Junior High School, in Great Bridge. Owner: Virginia Department of Environmental Quality.

AQUIFER.--St. Mary-Choptank aquifer of Miocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 100 ft, screened 84 to 94 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 20 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

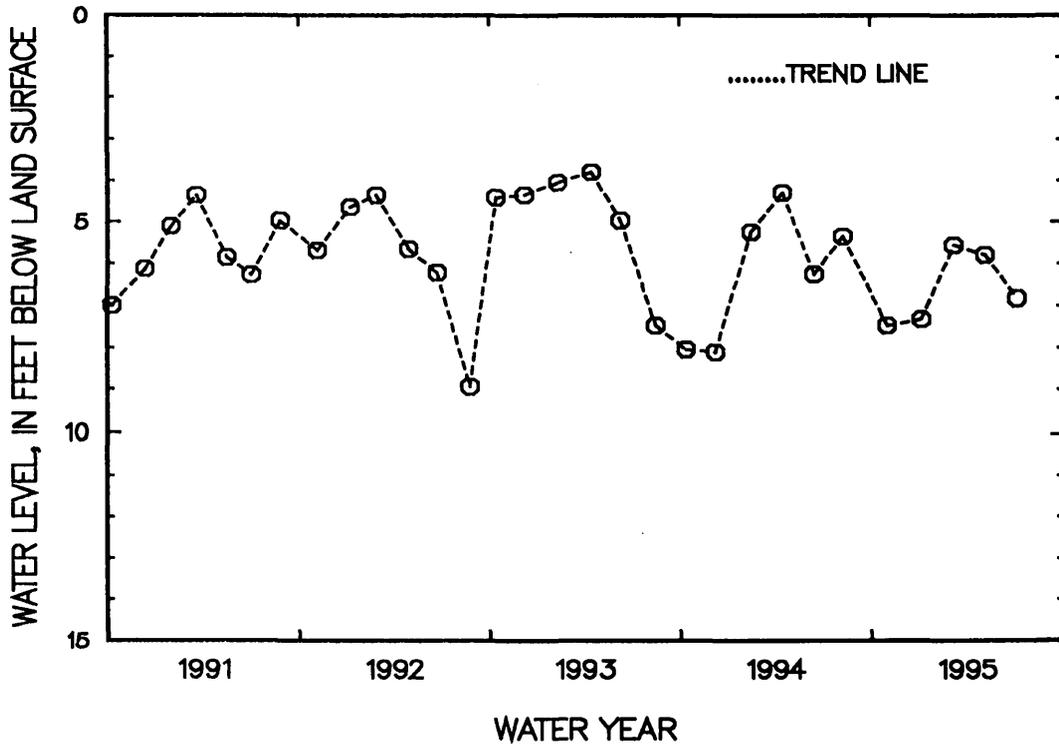
PERIOD OF RECORD.--January 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.80 ft below land-surface datum, Apr. 14, 1993; lowest measured, 16.07 ft below land-surface datum, Sept. 18, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	7.47	JAN 05	7.32	MAR 07	5.56	MAY 05	5.79	JUL 05	6.82

WATER YEAR 1995 HIGHEST 5.56 MAR 07, 1995 LOWEST 7.47 NOV 01, 1994



CITY OF CHESAPEAKE

364227076074706. Local number, 61B 12 SOW 091E.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Pentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,630 ft, diameter 2 in. from 1,630 to 1,830 ft, depth 1,830 ft, screened 1,820 to 1,830 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Low-water level drawdown subsequent to summer of 1993 was initially the result of pumping of the well. Cause of nonrecovery to pre-pumpage level is unknown but is under investigation.

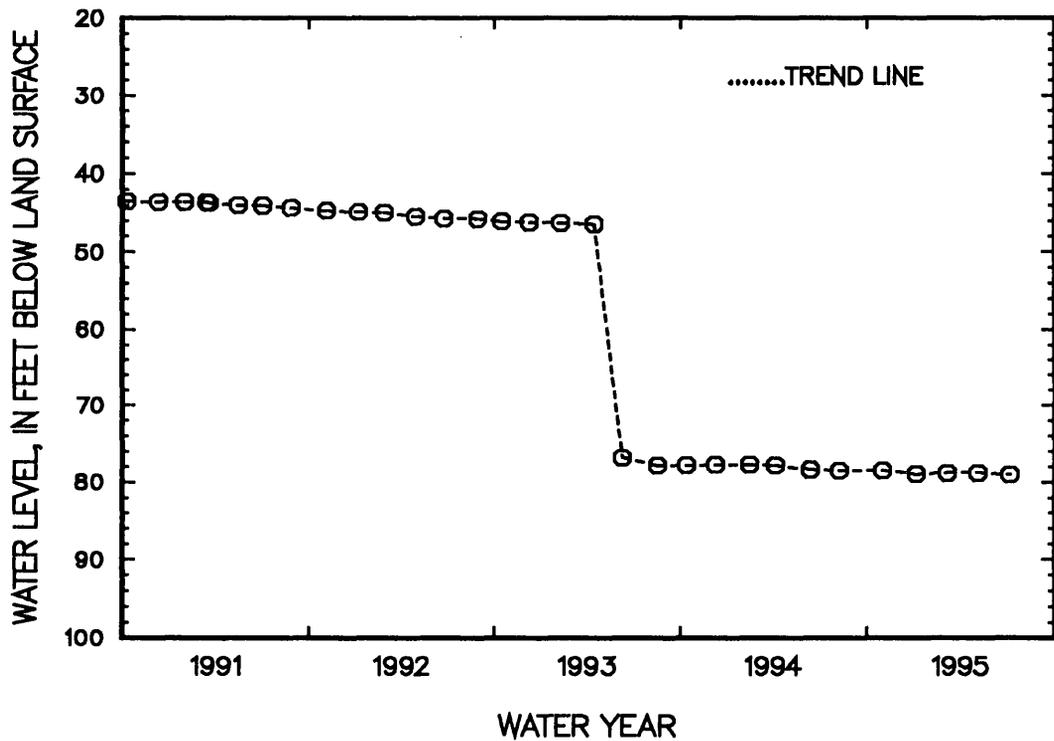
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.50 ft below land-surface datum, June 21, 1989; lowest measured, 79.05 ft below land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	78.54	JAN 05	78.98	MAR 07	78.82	MAY 05	78.83	JUL 06	79.05

WATER YEAR 1995 HIGHEST 78.54 NOV 01, 1994 LOWEST 79.05 JUL 06, 1995



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364227076074707. Local number, 61B 13 SOW 091F.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,270 ft, diameter 2 in. from 1,270 to 1,390 ft, depth 1,390 ft, screened 1,370 to 1,380 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

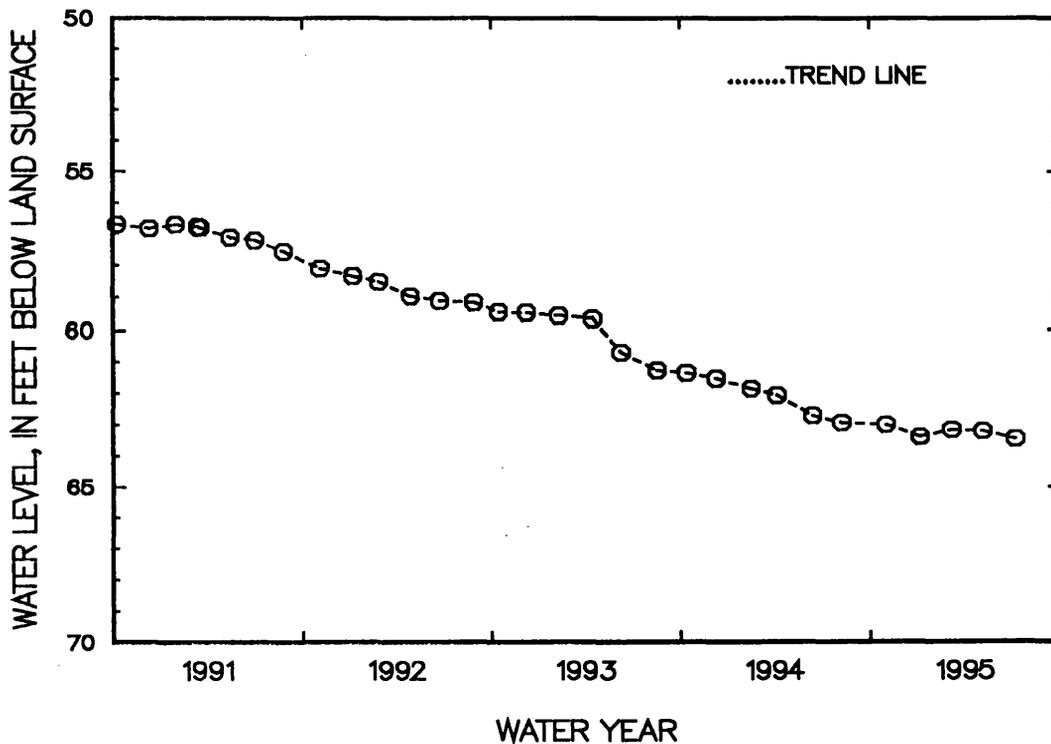
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.00 ft below land-surface datum, Aug. 10, 1989; lowest measured, 63.46 ft below land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	62.99	JAN 05	63.39	MAR 07	63.16	MAY 05	63.21	JUL 06	63.46

WATER YEAR 1995 HIGHEST 62.99 NOV 01, 1994 LOWEST 63.46 JUL 06, 1995



CITY OF CHESAPEAKE

364227076074708. Local number, 61B 14 SOW 091G.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 987 ft, diameter 2 in. from 987 to 1,110 ft, depth 1,110 ft, screened 1,090 to 1,100 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

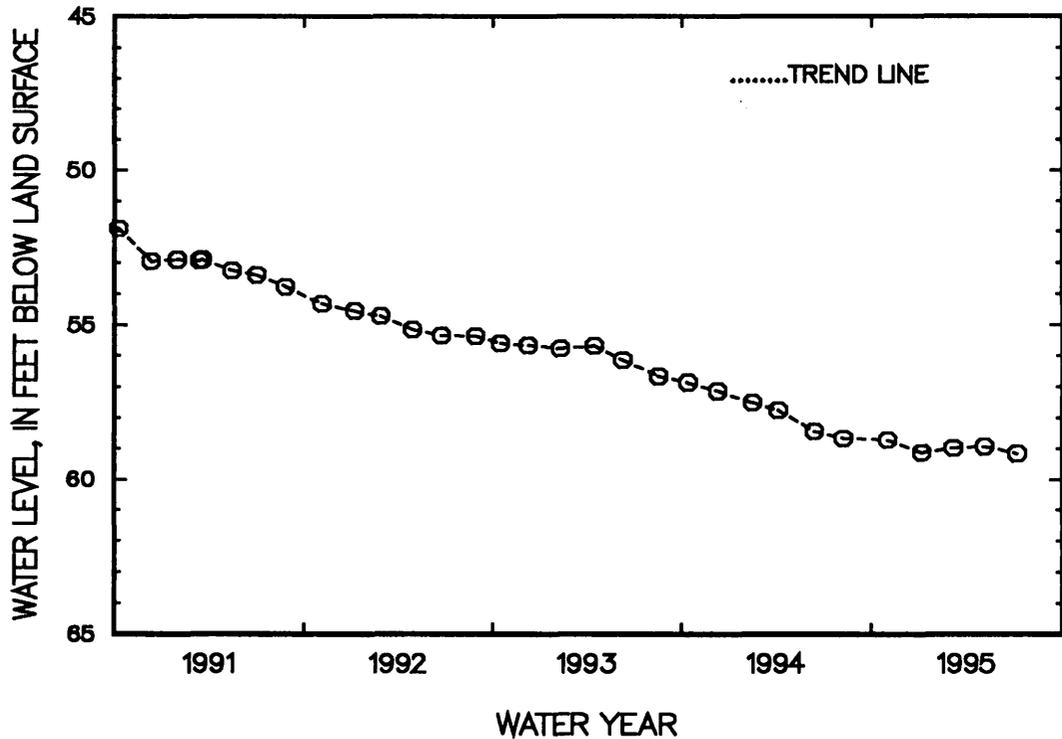
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.30 ft below land-surface datum, Mar. 22, 1989; lowest measured, 59.16 ft below land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	58.72	JAN 05	59.13	MAR 07	58.98	MAY 05	58.93	JUL 06	59.16

WATER YEAR 1995 HIGHEST 58.72 NOV 01, 1994 LOWEST 59.16 JUL 06, 1995



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364227076074709. Local number, 61B-15 SOW 091H.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Pentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 700 ft, diameter 2 in. from 674 to 790 ft, depth 790 ft, screened 759 to 769 ft.

INSTRUMENTATION.--Occasional measurement with manometer by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with manometer.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--March 1989 to current year.

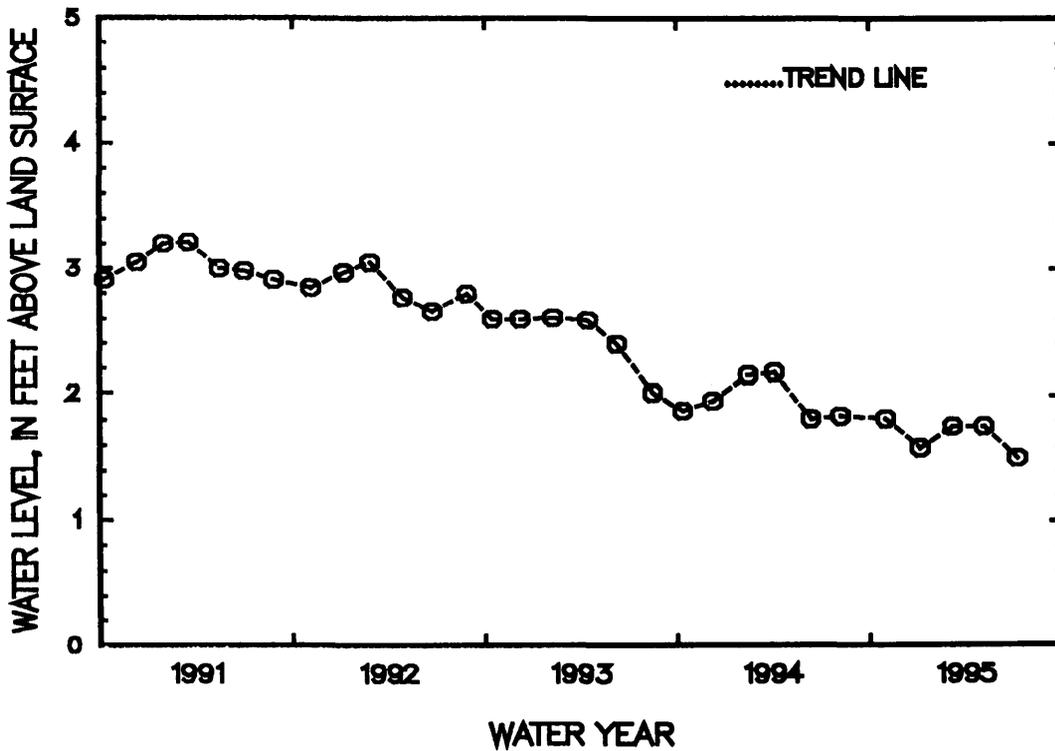
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.75 ft above land-surface datum, Apr. 20, 1989; lowest measured, 1.51 ft above land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	1.82	JAN 05	1.59	MAR 07	1.76	MAY 05	1.76	JUL 06	1.51

WATER YEAR 1995 HIGHEST 1.82 NOV 01, 1994 LOWEST 1.51 JUL 06, 1995

NOTE.--Flowing well; readings are above land-surface datum.



CITY OF CHESAPEAKE

364227076074710. Local number, 61B 16 SOW 091J.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Pentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 602 ft, diameter 2 in. from 586 to 690 ft, depth 690 ft, screened 670 to 680 ft.

INSTRUMENTATION.--Occasional measurement with manometer by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with manometer.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--March 1989 to current year.

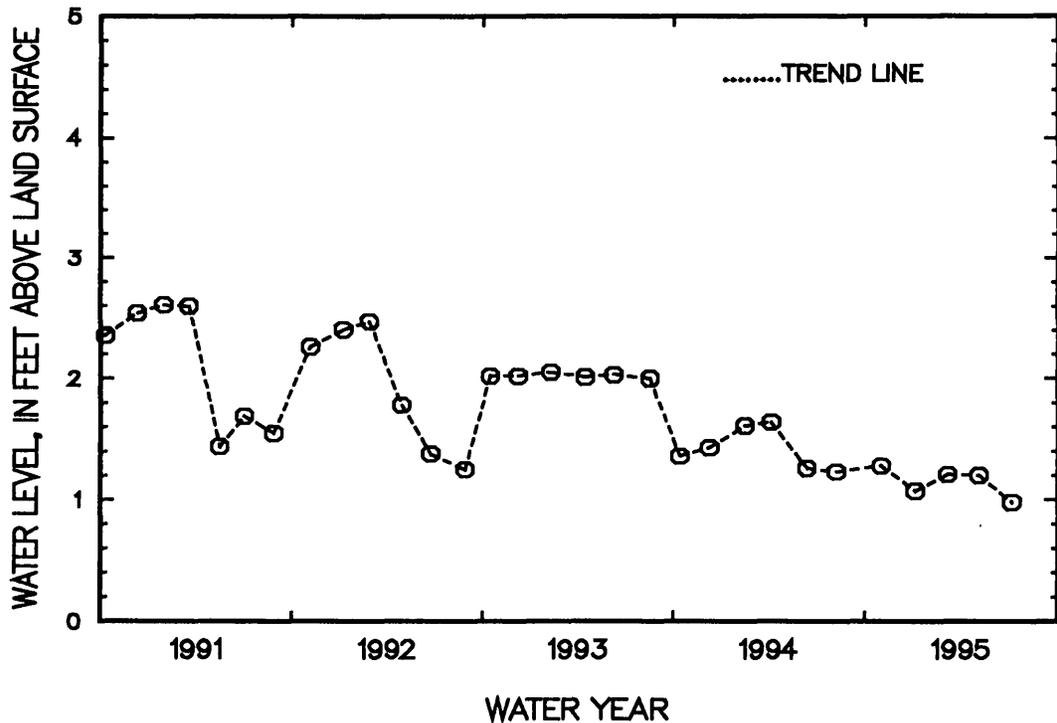
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.31 ft above land-surface datum, Mar. 13, 1989; lowest measured, 0.98 ft above land-surface datum, July 6, 1995.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	1.28	JAN 05	1.07	MAR 07	1.21	MAY 05	1.20	JUL 06	0.98

WATER YEAR 1995 HIGHEST 1.28 NOV 01, 1994 LOWEST 0.98 JUL 06, 1995

NOTE.--Flowing well; readings are above land-surface datum.



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364227076074711. Local number, 61B 17 SOW 091K.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 78 ft, diameter 2 in. from 78 to 108 ft, depth 108 ft, screened 88 to 98 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

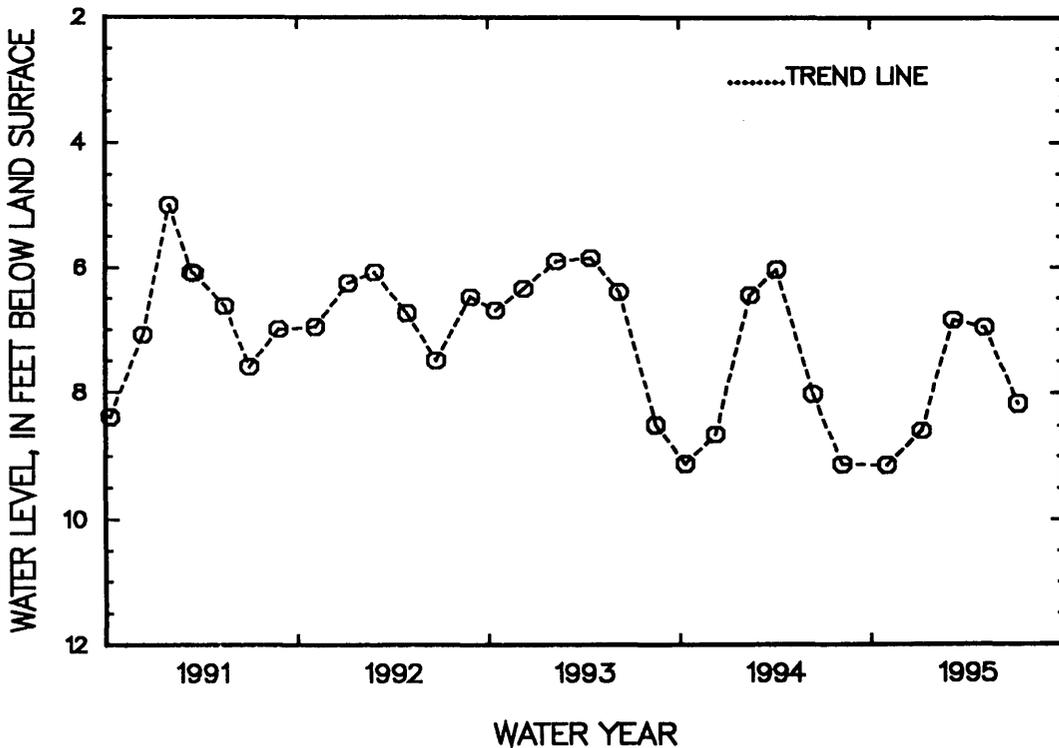
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, Jan. 30, 1991; lowest measured, 9.13 ft below land-surface datum, Nov. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.13	JAN 05	8.58	MAR 07	6.84	MAY 05	6.96	JUL 06	8.16

WATER YEAR 1995 HIGHEST 6.84 MAR 07, 1995 LOWEST 9.13 NOV 01, 1994



CITY OF CHESAPEAKE

364227076074712. Local number, 61B 18 SOW 091L.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Pentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 37 ft, diameter 2 in. from 37 to 67 ft, depth 67 ft, screened 57 to 67 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

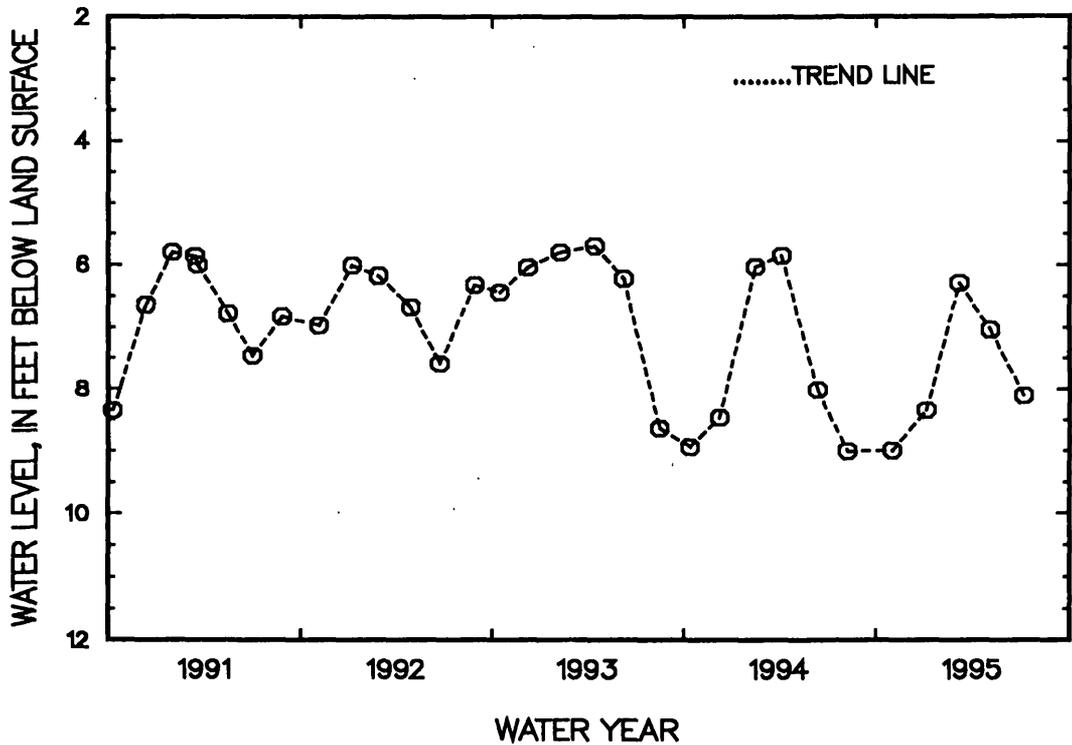
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.40 ft below land-surface datum, Mar. 13, Apr. 20, 1989; lowest measured, 9.01 ft below land-surface datum, Aug. 8, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.00	JAN 05	8.34	MAR 07	6.29	MAY 05	7.04	JUL 06	8.10

WATER YEAR 1995 HIGHEST 6.29 MAR 07, 1995 LOWEST 9.00 NOV 01, 1994



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364227076074713. Local number, 61B 19 SOW 091M.

LOCATION.--Lat 36°42'27", long 76°07'47", Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

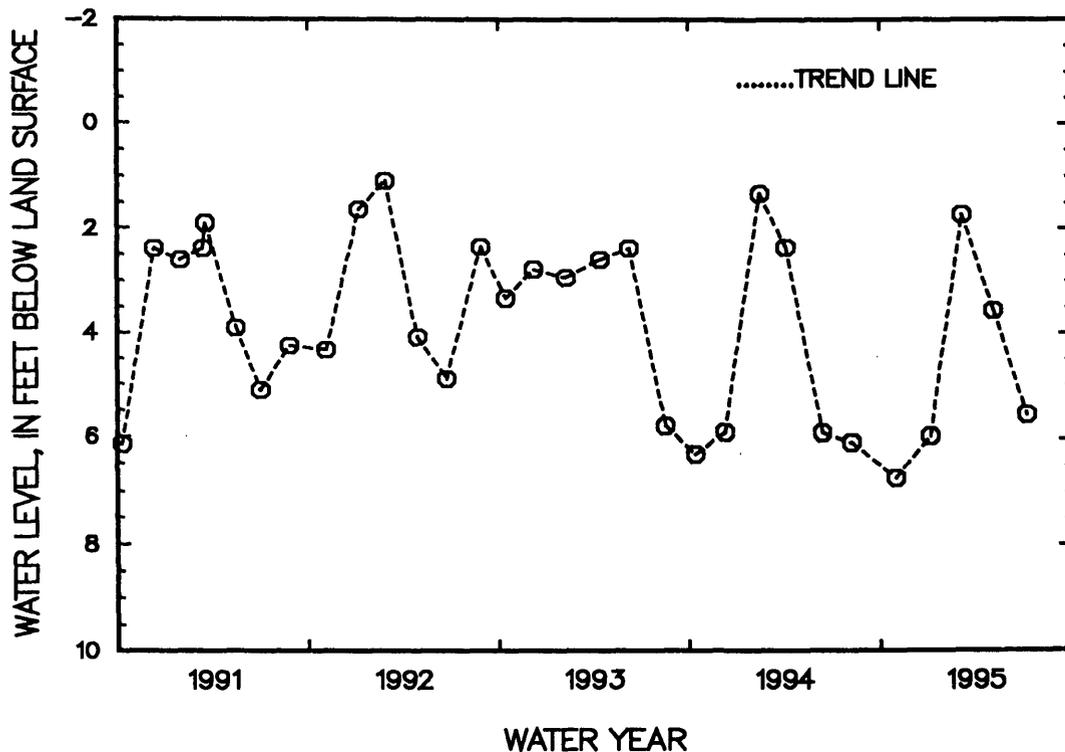
PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Feb. 26, 1992; lowest measured, 6.74 ft below land-surface datum, Nov. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	6.74	JAN 05	5.95	MAR 07	1.72	MAY 05	3.56	JUL 06	5.56

WATER YEAR 1995 HIGHEST 1.72 MAR 07, 1995 LOWEST 6.74 NOV 01, 1994



CHESTERFIELD COUNTY

372519077264701. Local number, 51H 92.

LOCATION.--Lat 37°25'19", long 77°26'47", Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley, 0.3 mi southwest of the intersection of U.S. Highways 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 53 ft, screened 51 to 53 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1985, to Jan. 23, 1991, digital recorder--60-minute punch. Prior to Oct. 1, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 102.31 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

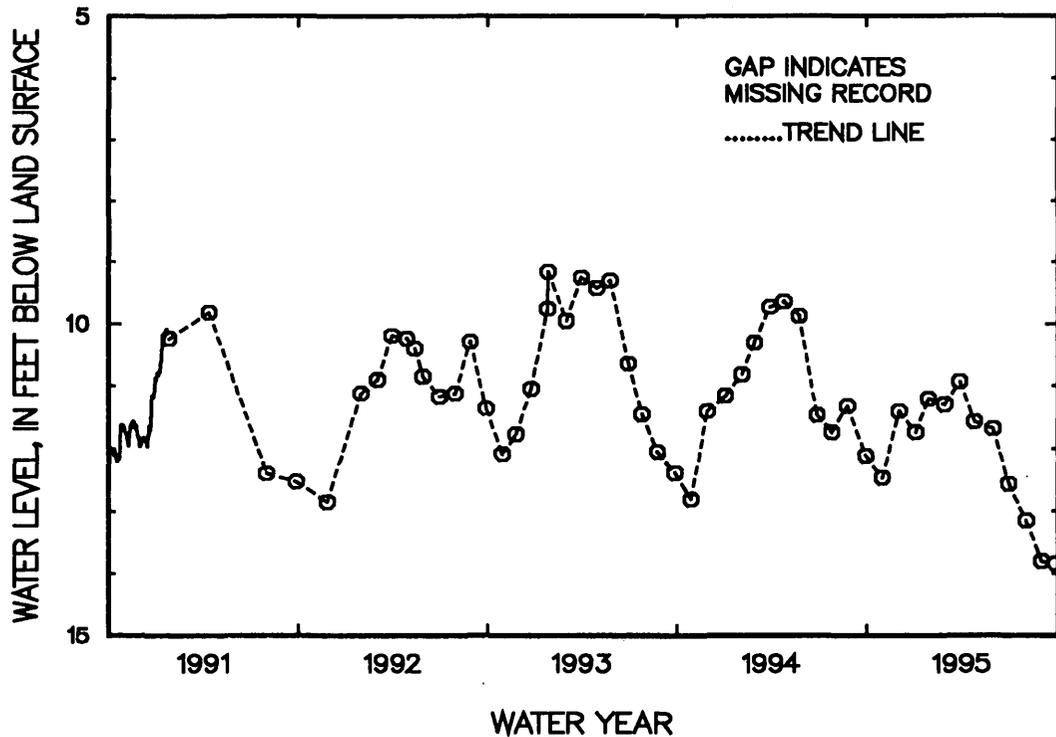
REMARKS.--Water level affected by pumping and sampling at different times during the year.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.95 ft below land-surface datum, June 14, 1989; lowest measured, 14.35 ft below land-surface datum, Aug. 16, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	12.46	JAN 03	11.74	FEB 27	11.29	APR 25	11.57	JUN 29	12.56	AUG 30	13.80
DEC 02	11.40	27	11.20	MAR 28	10.93	MAY 30	11.68	AUG 01	13.15	SEP 26	13.84
WATER YEAR 1995		HIGHEST	10.93	MAR 28, 1995	LOWEST	13.84	SEP 26, 1995				



CHESTERFIELD COUNTY

372519077264703. Local number, 51H 94.

LOCATION.--Lat 37°25'19", long 77°26'47", Hydrologic Unit 02080206, 500 ft north of Alcott Road, 0.3 mi southwest of the intersection of U.S. Highways 1 and 301 in Bensley. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 26 ft, screened 24 to 26 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to Oct. 1, 1985, monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 102.04 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum.

REMARKS.--Water level affected by pumping and sampling at different times during the year.

PERIOD OF RECORD.--April 1985 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.82 ft below land-surface datum, May 16, 1989; lowest measured, 15.19 ft below land-surface datum, Aug. 16, 1985.

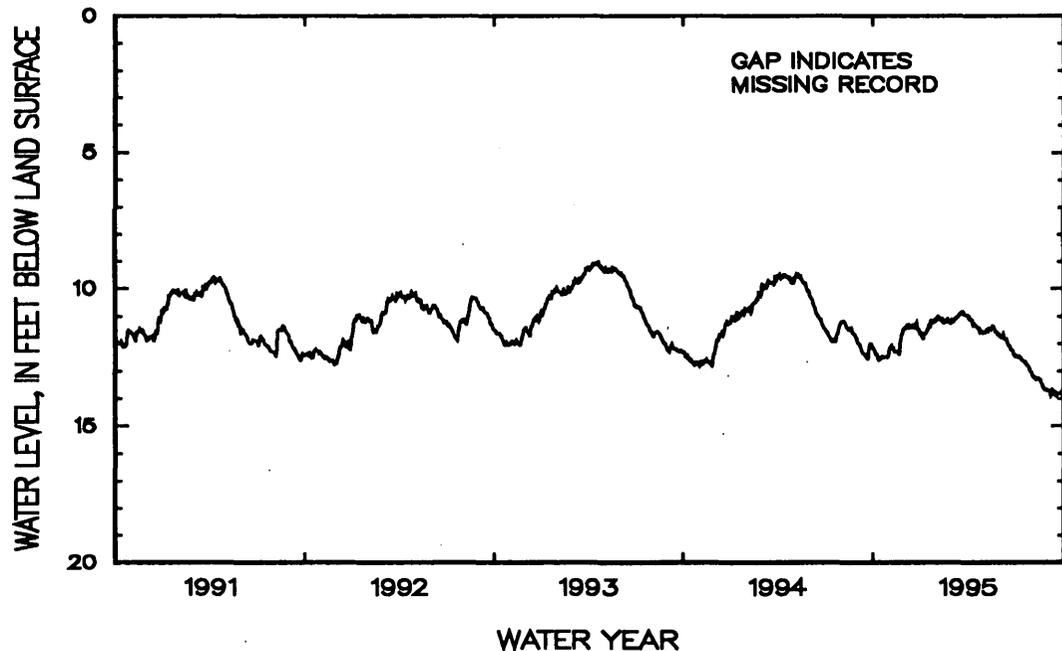
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.29	12.09	11.35	11.82	11.09	11.20	11.13	11.56	11.77	12.51	13.20	13.86
10	12.50	12.22	11.35	11.62	11.10	11.09	11.34	11.54	11.85	12.52	13.25	13.80
15	12.53	12.29	11.39	11.45	11.24	10.97	11.34	11.44	12.00	12.64	13.29	13.91
20	12.46	12.38	11.43	11.17	11.11	10.92	11.45	11.42	12.13	12.72	13.47	13.84
25	12.47	11.71	11.40	11.24	11.25	10.94	11.55	11.58	12.28	12.85	13.68	13.81
BOM	12.47	11.46	11.65	11.10	11.21	10.97	11.62	11.72	12.47	13.05	13.72	13.82

WATER YEAR 1995 HIGHEST INSTANTANEOUS 10.77 MAR 21, 22, 1995

LOWEST INSTANTANEOUS 13.92 SEP 16, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CHESTERFIELD COUNTY

372519077264704. Local number, 51H 95.

LOCATION.--Lat 37°25'19", long 77°26'47", Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley and 0.3 mi southwest of the intersection of U.S. Highways 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 4.7 ft, screened 2.7 to 4.7 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Jan. 23, 1991, digital recorder--60-minute punch and monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 102.23 ft above sea level. Measuring point: Top of casing, 1.9 ft above land-surface datum.

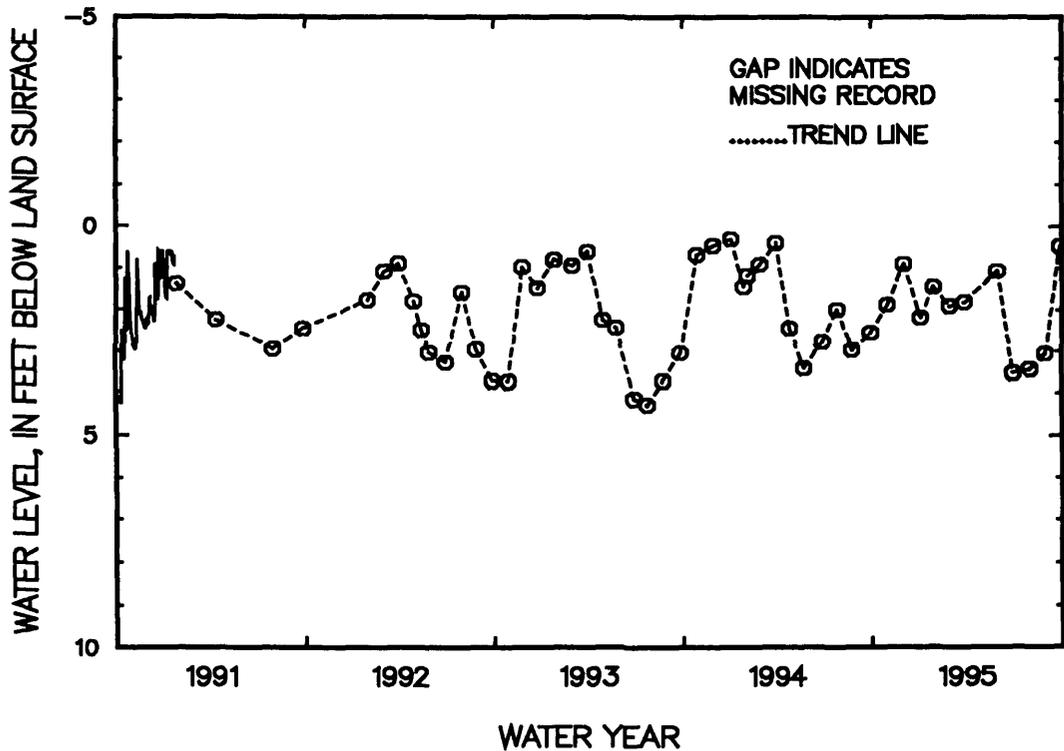
REMARKS.--Upper limit of recorded water-level data is limited by well construction. Water level affected by pumping and sampling at different times during the year.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.02 ft below land-surface datum, Jan. 11, 12, 1990; lowest recorded, 4.38 ft below land-surface datum, Aug. 8-19, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	1.87	JAN 03	2.18	FEB 27	1.90	MAY 30	1.06	AUG 01	3.44	SEP 26	0.47
DEC 02	.89	27	1.44	MAR 28	1.81	JUN 29	3.53	30	3.06		
WATER YEAR 1995		HIGHEST	0.47	SEP 26, 1995	LOWEST	3.53	JUN 29, 1995				



CHESTERFIELD COUNTY

372519077264605. Local number, 51H130.

LOCATION.--Lat 37°25'19", long 77°26'46", Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley and 0.3 mi southwest of the intersection of U.S. Highway 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 96 ft, cased to 71 ft, open hole 71 to 96 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 102.17 ft above sea level. Measuring point: Top of casing, 1.64 ft above land-surface datum.

REMARKS.--Water level affected by pumping and sampling at different times during the year.

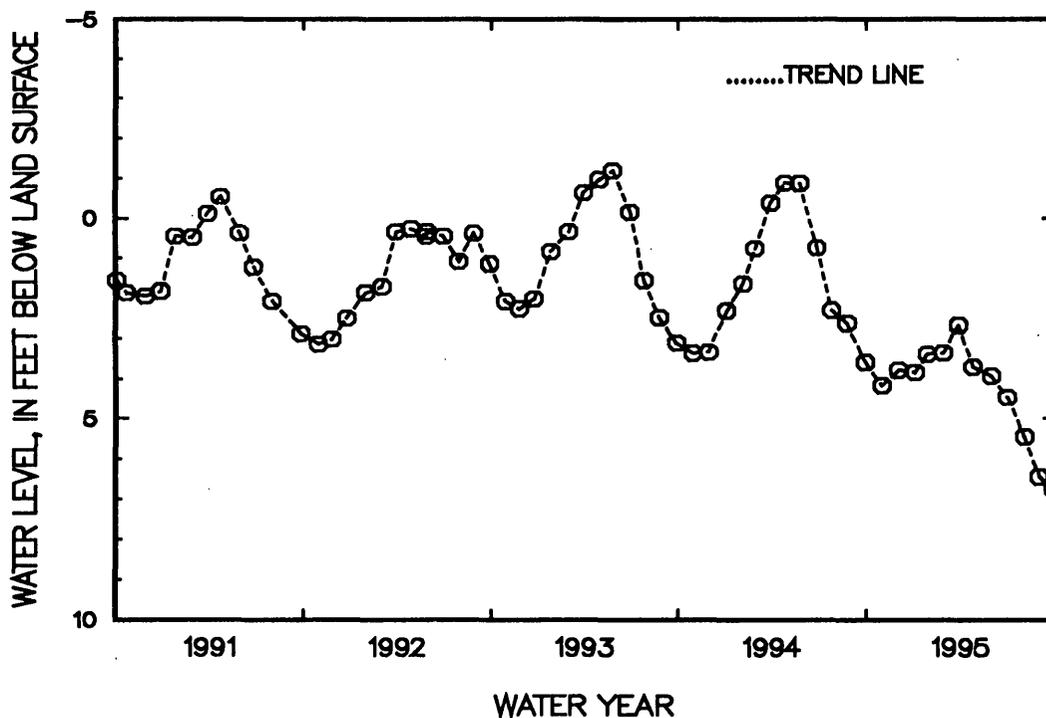
PERIOD OF RECORD.--May 1985 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.64 ft above land-surface datum, June 1, 1989; lowest measured, 6.79 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	4.17	JAN 03	3.84	FEB 27	3.35	APR 25	3.70	JUN 29	4.47	AUG 30	6.46
DEC 02	3.78	27	3.38	MAR 28	2.66	MAY 30	3.93	AUG 01	5.46	SEP 26	6.79

WATER YEAR 1995 HIGHEST 2.66 MAR 28, 1995 LOWEST 6.79 SEP 26, 1995



CITY OF COLONIAL HEIGHTS

371644077244601. Local number, 51G 1.

LOCATION.--Lat 37°16'44", long 77°24'46", Hydrologic Unit 02080207, 200 ft west of U.S. Highways 1 and 301, 0.5 mi south of the intersection of State Highway 144 (Ashby Avenue) and U.S. Highways 1 and 301 (Boulevard) in Colonial Heights. Owner: Dean Whittington.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 100 ft, cased to 50 ft, open hole 50 to 100 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 57.30 ft above sea level. Measuring point: Top of casing, 1.0 ft above land-surface datum.

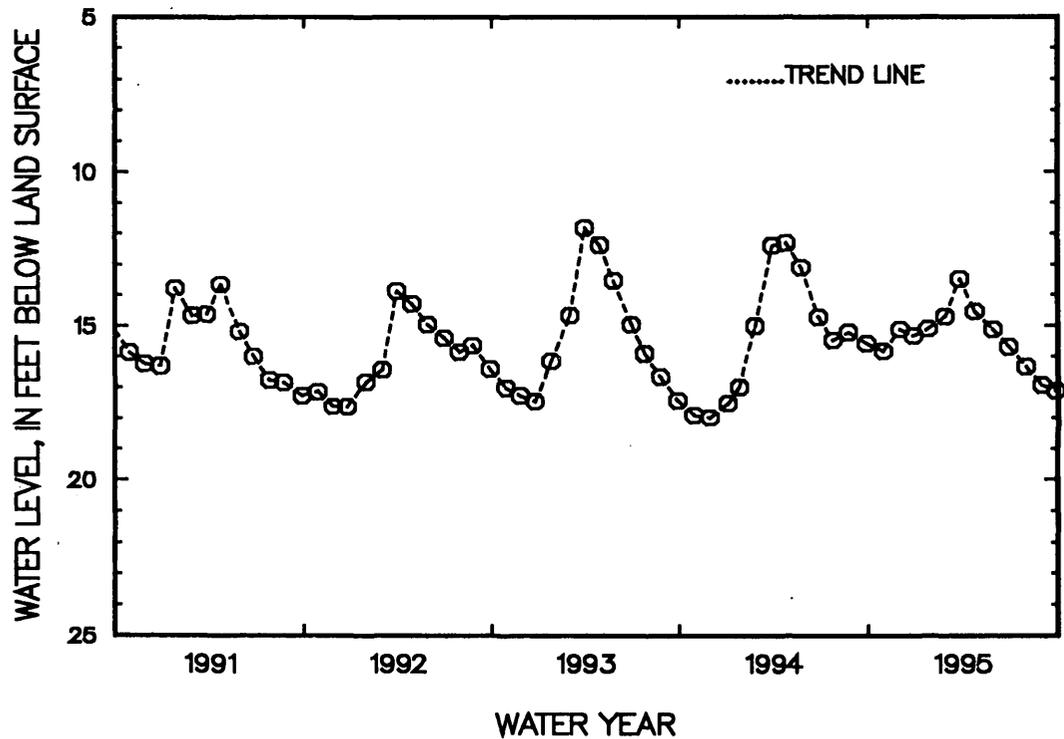
PERIOD OF RECORD.--October 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.73 ft below land-surface datum, Jan. 26, 1978; lowest measured, 19.26 ft below land-surface datum, Dec. 3, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	15.84	DEC 28	15.34	FEB 27	14.71	APR 25	14.54	JUN 29	15.70	AUG 30	16.93
DEC 02	15.13	JAN 25	15.11	MAR 27	13.48	MAY 30	15.13	AUG 01	16.34	SEP 26	17.12

WATER YEAR 1995 HIGHEST 13.48 MAR 27, 1995 LOWEST 17.12 SEP 26, 1995



GROUND-WATER LEVELS

ESSEX COUNTY

375032076583201. Local number, 55L 1.

LOCATION.--Lat 37°50'32", long 76°58'32", Hydrologic Unit 02080104, 0.4 mi northeast of the intersection of State Highway 621 and private dirt road at Retreat Farm near Millers Tavern and 0.9 mi west of the intersection of U.S. Highway 360 and State Highway 621. Owner: Edward W. Haile.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 210 ft, diameter 2 in. from 210 to 621 ft, depth 621 ft, screened 575 to 585 ft, 615 to 621 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 162 ft above sea level, from topographic map. Measuring point: Top of lip of concrete hatchway, at land-surface datum.

REMARKS.--Water level affected by regional drawdown.

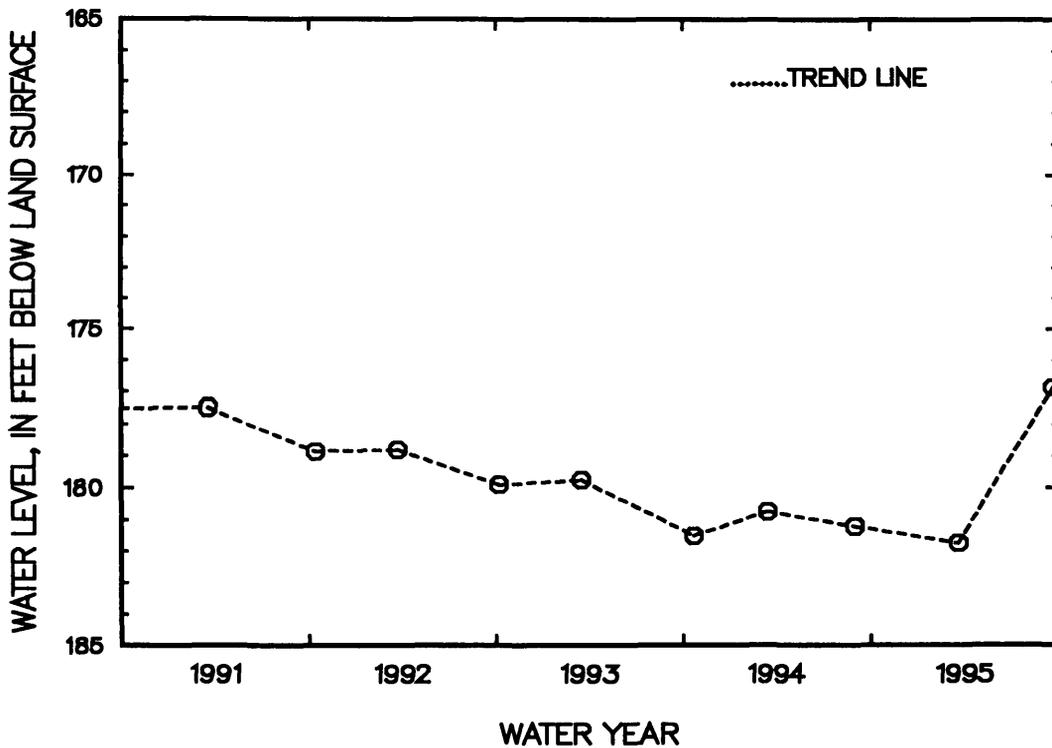
PERIOD OF RECORD.--December 1971 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 160.14 ft below land-surface datum, Mar. 1, 1973; lowest measured, 181.75 ft below land-surface datum, Mar. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	181.75	SEP 19	176.87

WATER YEAR 1995 HIGHEST 176.87 SEP 19, 1995 LOWEST 181.75 MAR 20, 1995



FAIRFAX COUNTY

384518077163501. Local number, 52U 4.

LOCATION.--Lat 38°45'18", long 77°16'35", Hydrologic Unit 02070010, 200 ft east of intersection of State Highways 641 and 643 in Springfield. Owner: Sydenstricker Church.

AQUIFER.--Ocoquan Granite of Cambrian-Ordovician age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 24 in., depth 28 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 340 ft above sea level, from topographic map. Measuring point: Hole in cement platform, 0.67 ft above land-surface datum.

REMARKS.--Water level occasionally affected by local surface-water runoff into well casing (May 1990 and at other times).

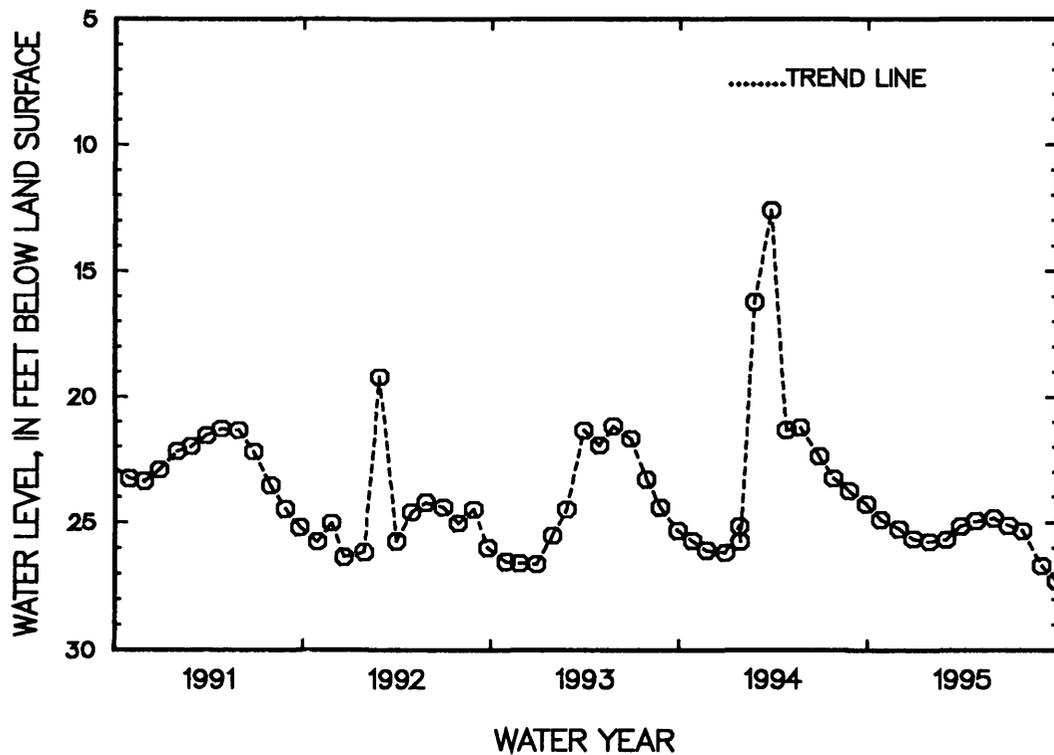
PERIOD OF RECORD.--May 1957 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.54 ft below land-surface datum, Apr. 30, 1973; lowest measured, 28.85 ft below land-surface datum, Jan. 30, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 25	24.87	DEC 27	25.63	FEB 28	25.66	APR 26	24.93	JUN 27	25.10	AUG 30	26.69
NOV 29	25.23	JAN 27	25.74	MAR 28	25.13	MAY 30	24.82	JUL 24	25.32	SEP 27	27.27

WATER YEAR 1995 HIGHEST 24.82 MAY 30, 1995 LOWEST 27.27 SEP 27, 1995



CITY OF FRANKLIN

364033076562603. Local number, 55B 66 SOW 145C.

LOCATION.--Lat 36°40'33", long 76°56'26", Hydrologic Unit 03010202, at P. D. Camp Community College in Franklin.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 360 ft, screened 350 to 360 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 34 ft above sea level, from topographic map. Measuring point:
 Top of casing, 1.58 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

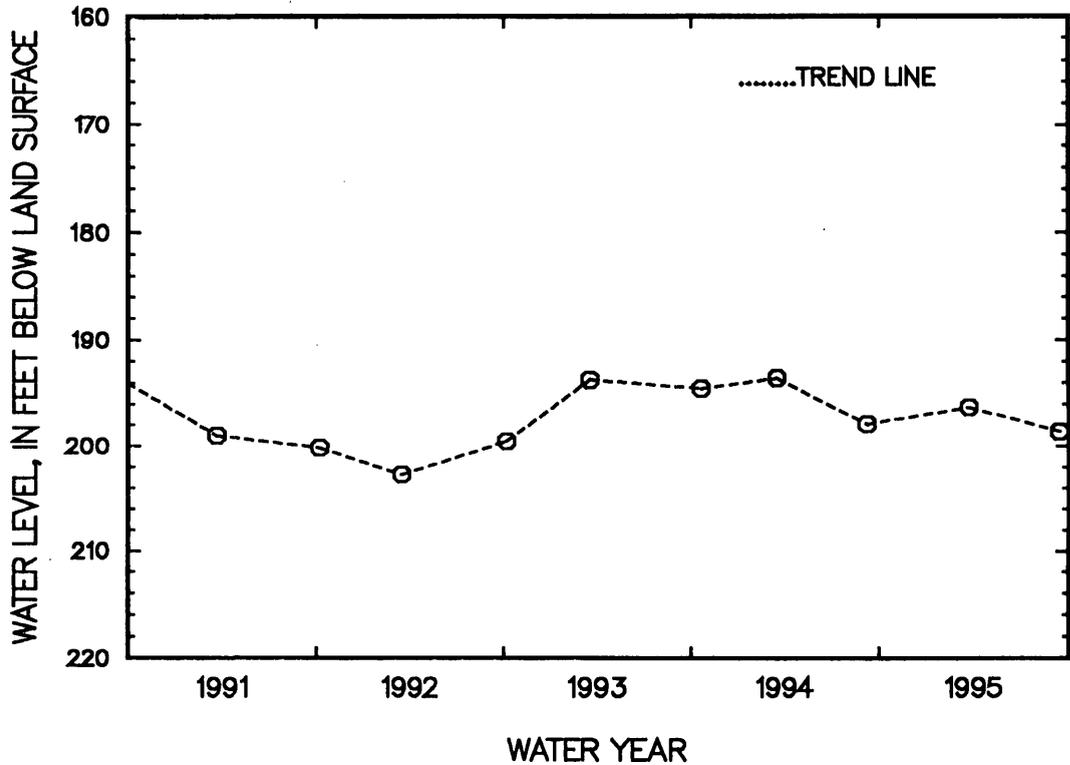
PERIOD OF RECORD.--November 1984 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 175.39 ft below land-surface datum, Dec. 27, 1984;
 lowest measured, 202.72 ft below land-surface datum, Mar. 16, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	196.32	SEP 12	198.60

WATER YEAR 1995 HIGHEST 196.32 MAR 24, 1995 LOWEST 198.60 SEP 12, 1995



GROUND-WATER LEVELS

CITY OF FRANKLIN

364033076562604. Local number, 55B 67 SOW 145D.

LOCATION.--Lat 36°40'33", long 76°56'26", Hydrologic Unit 03010202, at P. D. Camp Community College in Franklin.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 34 ft above sea level, from topographic map. Measuring point:
 Top of casing, 1.15 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

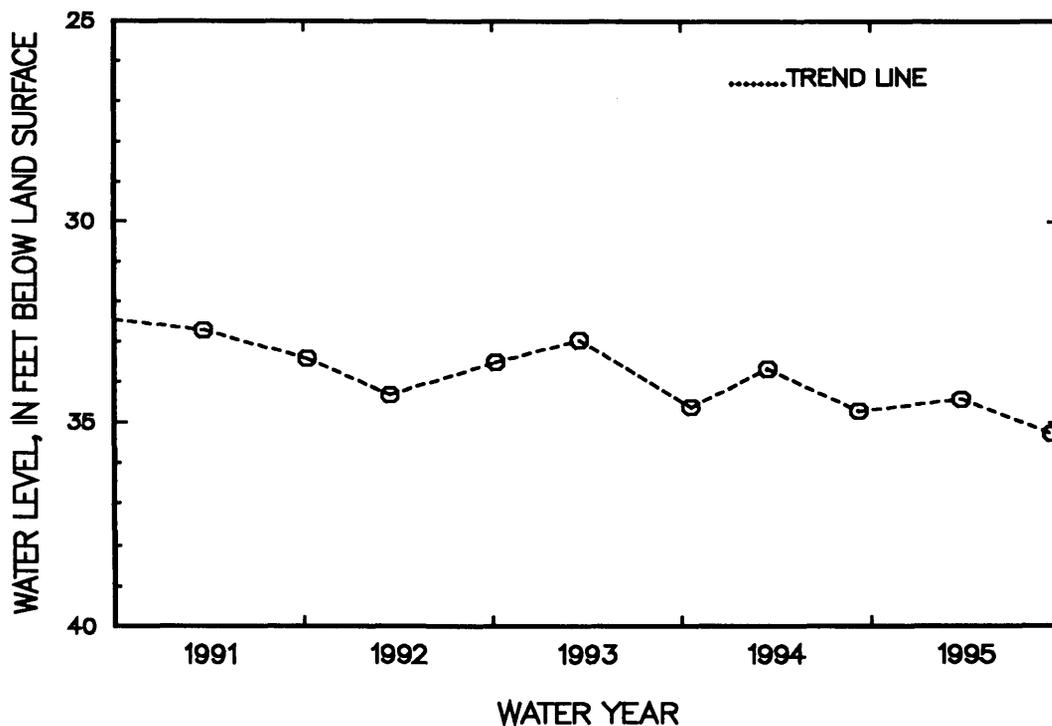
PERIOD OF RECORD.--November 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.51 ft below land-surface datum, Mar. 19, 1985;
 lowest measured, 35.27 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	34.41	SEP 12	35.27

WATER YEAR 1995 HIGHEST 34.41 MAR 24, 1995 LOWEST 35.27 SEP 12, 1995



GLOUCESTER COUNTY

372331076312602. Local number, 58H 6 SOW 168A.

LOCATION.--Lat 37°23'31", long 76°31'26", Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,300 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. June 11, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Prior to June 11, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

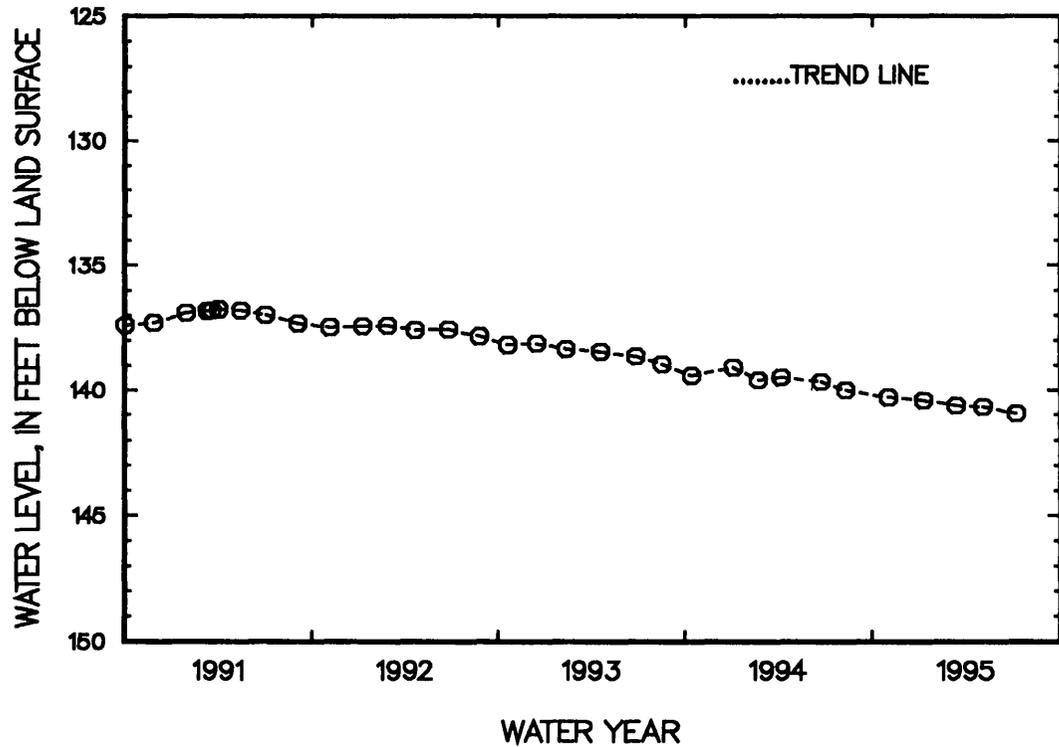
PERIOD OF RECORD.--August 1982 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.26 ft below land-surface datum, Feb. 14, 1983; lowest measured, 140.94 ft below land-surface datum, July 7, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	140.29	JAN 09	140.40	MAR 13	140.63	MAY 04	140.67	JUL 07	140.94

WATER YEAR 1995 HIGHEST 140.29 NOV 02, 1994 LOWEST 140.94 JUL 07, 1995



GROUND-WATER LEVELS

GLOUCESTER COUNTY

372331076312603. Local number, 58H 7 SOW 168B.

LOCATION.--Lat 37°23'31", long 76°31'26", Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 186 ft, diameter 2 in. from 186 to 960 ft, depth 960 ft, screened 950 to 960 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 7, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

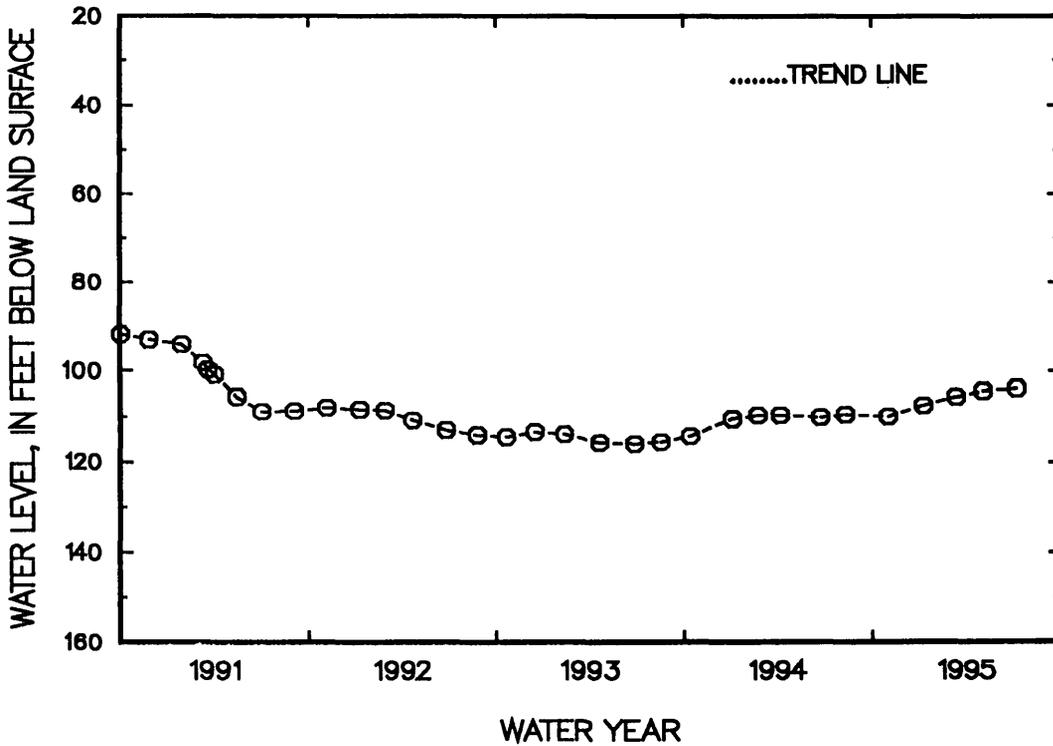
PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.55 ft below land-surface datum, Nov. 20, 1985; lowest measured, 115.92 ft below land-surface datum, June 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	109.77	JAN 09	107.30	MAR 13	105.35	MAY 04	104.12	JUL 07	103.53

WATER YEAR 1995 HIGHEST 103.53 JUL 07, 1995 LOWEST 109.77 NOV 02, 1994



GLOUCESTER COUNTY

372331076312604. Local number, 58H 8 SOW 168C.

LOCATION.--Lat 37°23'31", long 76°31'26", Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 40 ft, screened 30 to 40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 7, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

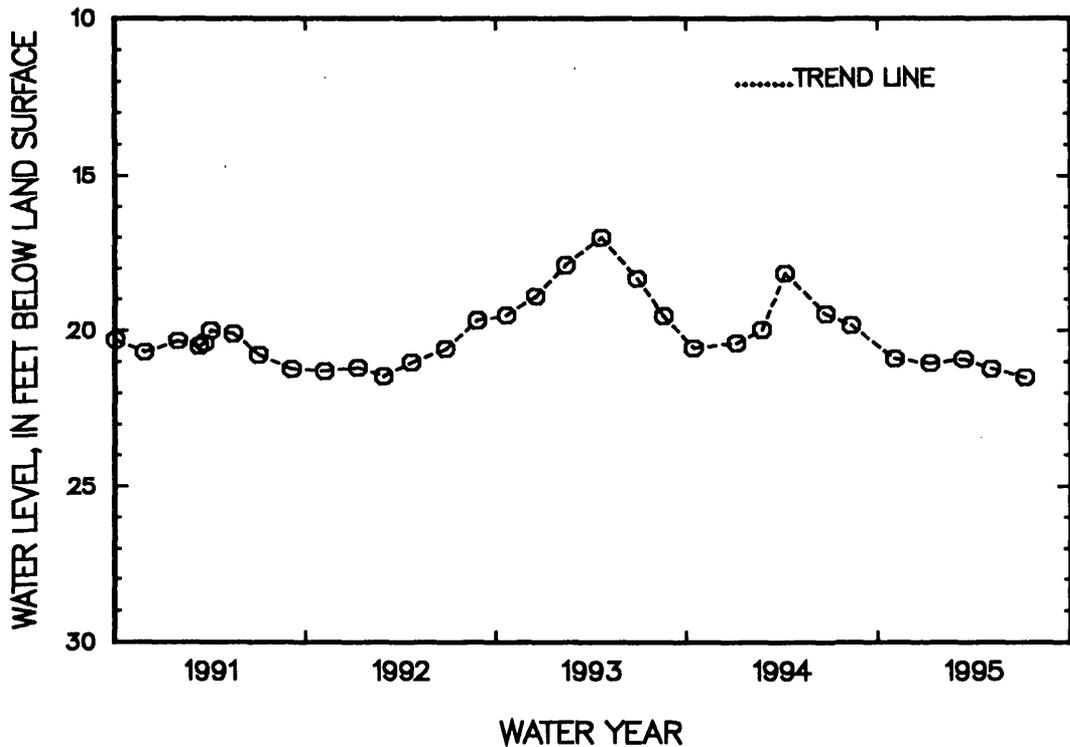
PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.00 ft below land-surface datum, Apr. 20, 1993; lowest measured, 21.81 ft below land-surface datum, Sept. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	20.90	JAN 09	21.05	MAR 13	20.92	MAY 04	21.22	JUL 07	21.50

WATER YEAR 1995 HIGHEST 20.90 NOV 02, 1994 LOWEST 21.50 JUL 07, 1995



GROUND-WATER LEVELS

HANOVER COUNTY

375316077274701. Local number, 51M 11.

LOCATION.--Lat 37°53'16", long 77°27'47", Hydrologic Unit 02080106, 900 ft east of U.S. Highway 1 on a private dirt road at the North Anna River and 9.9 mi north of Ashland on U.S. Highway 1. Owner: Weyerhaeuser Inc.

AQUIFER.--Newark Supergroup of late Triassic age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 175 ft, cased to 20 ft, open hole 20 to 175 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 70 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

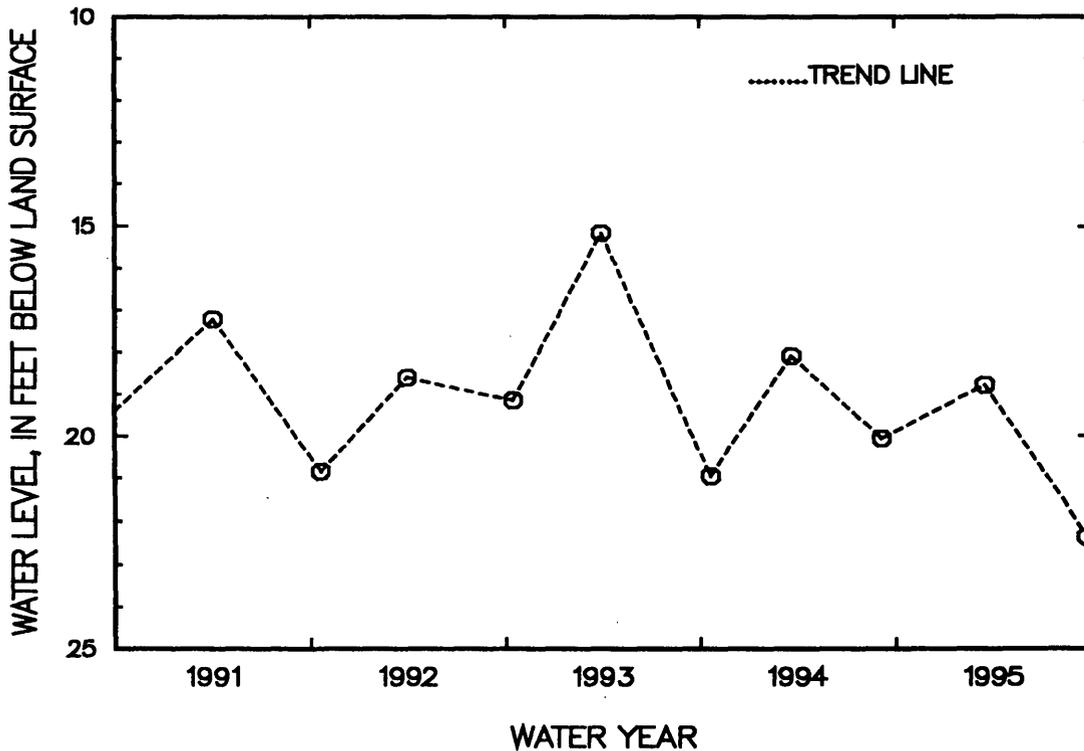
PERIOD OF RECORD.--January 1984 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.17 ft below land-surface datum, Mar. 30, 1993; lowest measured, 22.36 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 17	18.78	SEP 20	22.36

WATER YEAR 1995 HIGHEST 18.78 MAR 17, 1995 LOWEST 22.36 SEP 20, 1995



HANOVER COUNTY

373507077171201. Local number, 52J 10.

LOCATION.--Lat 37°35'07", long 77°17'12", Hydrologic Unit 02080206, 150 ft north of State Highway 156 at the Cold Harbor Visitor Center, 1.0 mi southwest of the intersection of State Highways 156 and 619, and 4.9 mi east of Mechanicsville. Owner: U.S. National Park Service.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 270 ft, screened 255 to 270 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 172 ft above sea level, from topographic map. Measuring point: Top of casing, 1.55 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

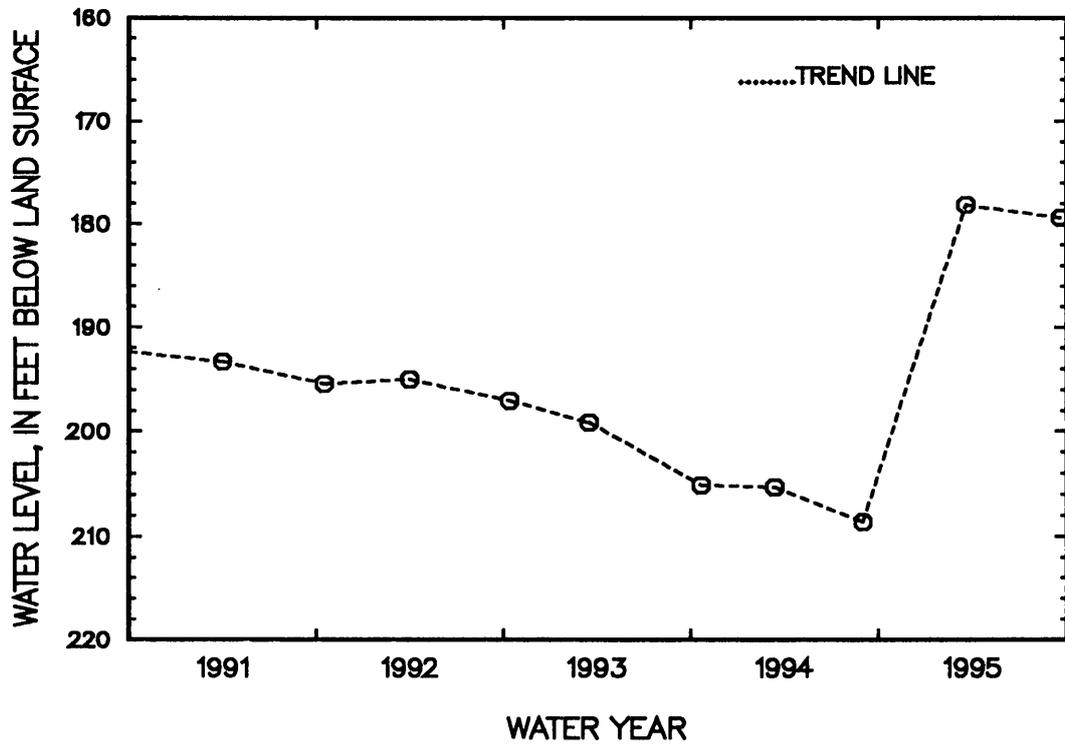
PERIOD OF RECORD.--December 1972, October 1983 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 165.75 ft below land-surface datum, Dec. 1, 1972; lowest measured, 208.66 ft below land-surface datum, Sept. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	178.14	SEP 18	179.40

WATER YEAR 1995 HIGHEST 178.14 MAR 20, 1995 LOWEST 179.40 SEP 18, 1995



GROUND-WATER LEVELS

HANOVER COUNTY

374720077300501. Local number, 52K 3.

LOCATION.--Lat 37°40'05", long 77°17'54", Hydrologic Unit 02080106, 200 ft west of State Highway 615, 0.65 mi southwest of Studley, and 1.95 mi northwest of the intersection of State Highways 615 and 627. Owner: Sydnor Hydrodynamics.

AQUIFER.--Middle and lower Potomac aquifers of Cretaceous age.

WELL CHARACTERISTICS.--Drilled public supply water well, diameter 6 in., depth 426 ft, screened 355 to 365 ft, 392 to 422 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 163 ft above sea level, from topographic map. Measuring point: Top of casing, 2.76 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

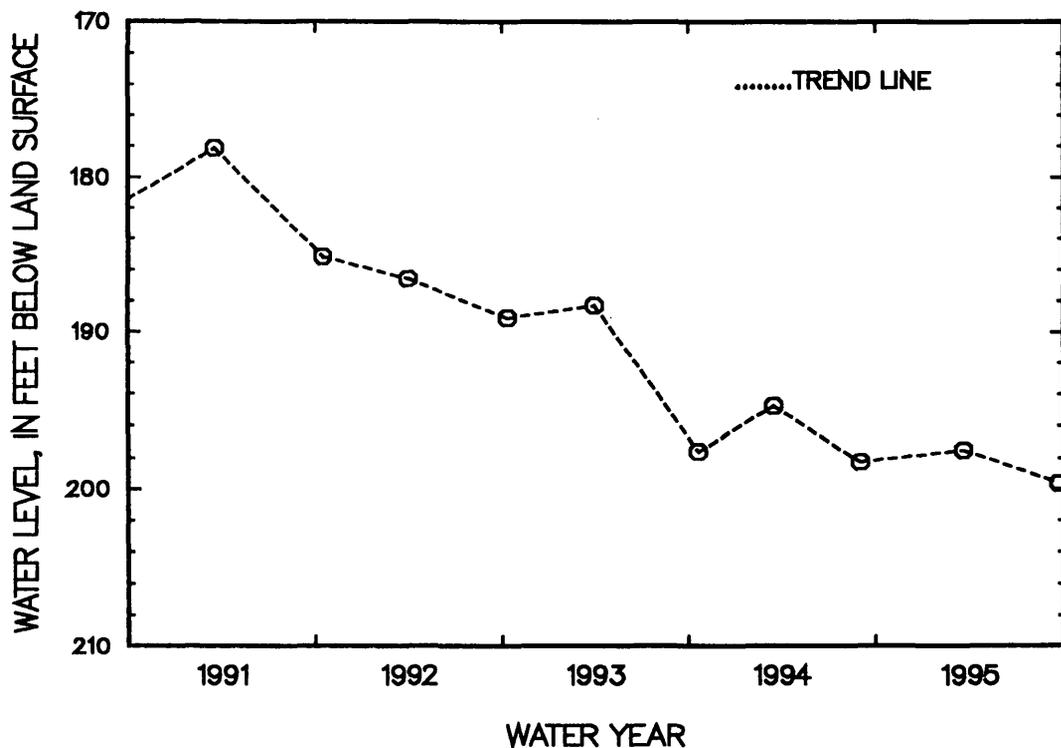
PERIOD OF RECORD.--May 1970, November 1973, December 1974, January 1984 to March 1986, March 1988 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.50 ft below land-surface datum, May 21, 1970; lowest measured, 199.63 ft below land-surface datum, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	197.49	SEP 19	199.63

WATER YEAR 1995 HIGHEST 197.49 MAR 20, 1995 LOWEST 199.63 SEP 19, 1995



HANOVER COUNTY

373738077082801. Local number, 53K 16.

LOCATION.--Lat 37°37'38", long 77°08'28", Hydrologic Unit 02080106, 1,000 ft northeast of the intersection of State Highways 606 and 629 at Eastern View Farm, 0.6 mi southeast of Glimps Corner, 4.7 mi east of Old Church, and 5.95 mi east of the intersection of U.S. Highway 360 and State Highway 606. Owner: John Maples.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 366 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 100 ft above sea level, from topographic map. Measuring point: Top of casing, 5.3 ft below land-surface datum.

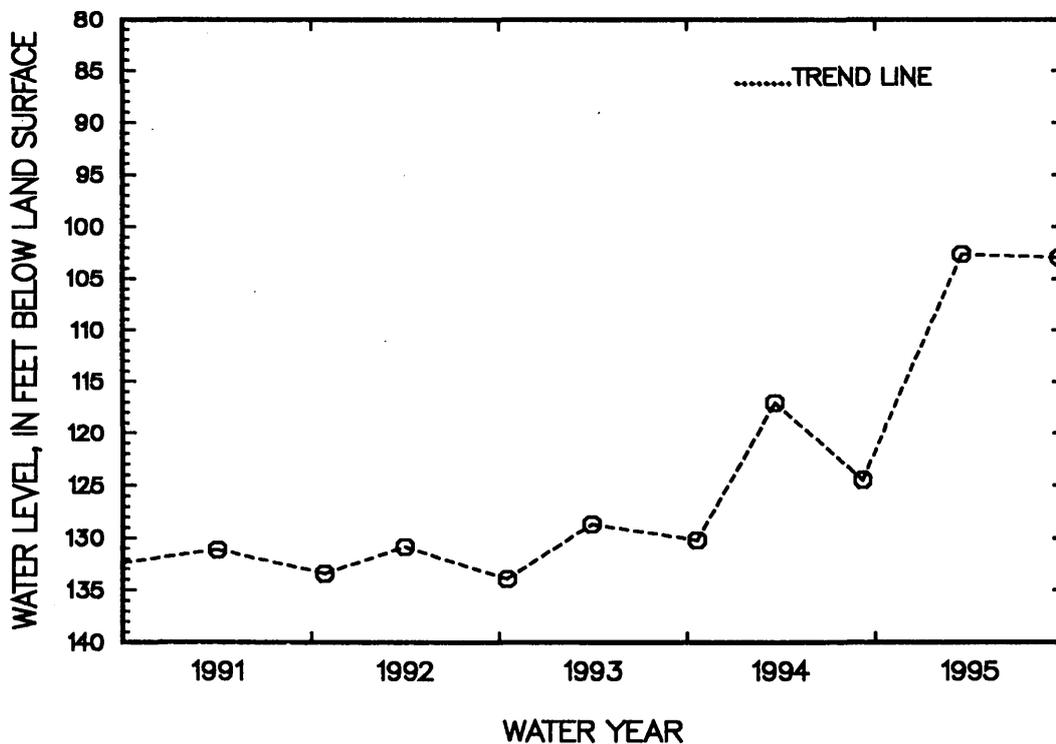
REMARKS.--Water level affected by regional drawdown and local pumpage.

PERIOD OF RECORD.--January 1984 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.65 ft below land-surface datum, Mar. 17, 1995; lowest measured, 138.70 ft below land-surface datum, Dec. 15, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	DATE	WATER LEVEL	DATE	WATER LEVEL		
	MAR 17	102.65	SEP 20	102.95		
WATER YEAR 1995	HIGHEST	102.65	MAR 17, 1995	LOWEST	102.95	SEP 20, 1995



GROUND-WATER LEVELS

HANOVER COUNTY

373737077083201. Local number, 53K 19 SOW 080.

LOCATION.--Lat 37°37'37", long 77°08'32", Hydrologic Unit 02080106, 500 ft northeast of State Highway 606, 0.15 mi west of intersection of State Highways 606 and 629, and 4.6 mi east of Old Church. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 30 in., depth 35 ft, cased to 35 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985 to July 11, 1995, bimonthly measurement with chalked tape. May 20, 1978, to Oct. 2, 1985, occasional measurement with chalked tape. Prior to May 20, 1978, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 130 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

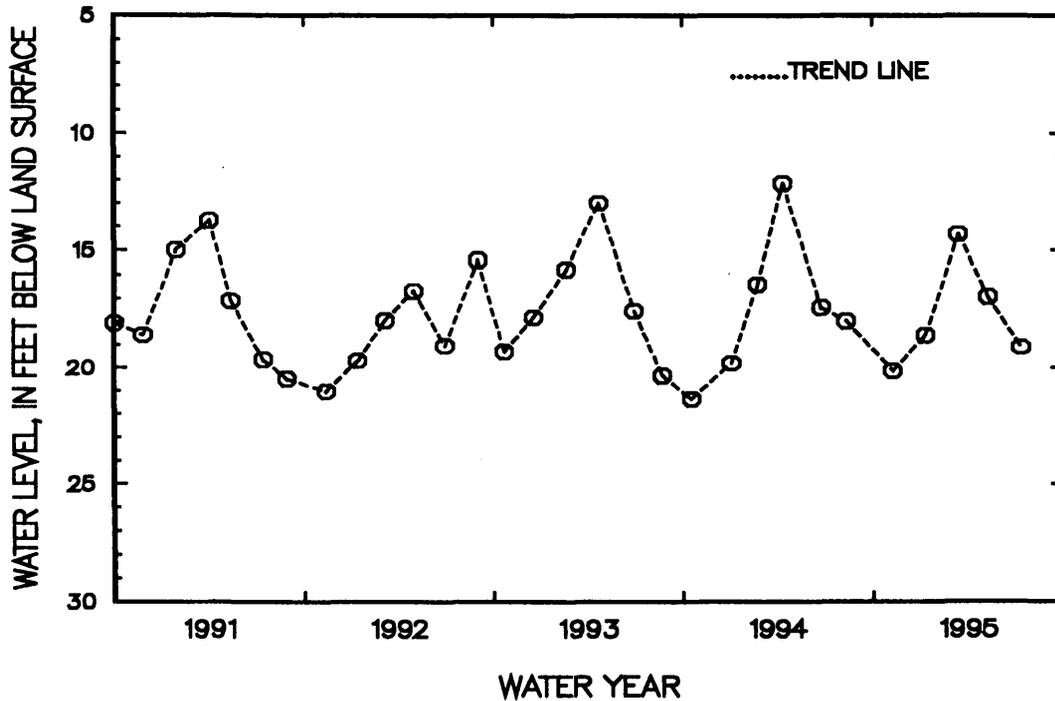
PERIOD OF RECORD.--January 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.05 ft below land-surface datum, Jan. 25, 1978; lowest measured, 22.85 ft below land-surface datum, Aug. 3, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	20.13	JAN 10	18.58	MAR 14	14.33	MAY 09	16.93	JUL 11	19.10

WATER YEAR 1995 HIGHEST 14.33 MAR 14, 1995 LOWEST 20.13 NOV 09, 1994



HENRICO COUNTY

373607077331401. Local number, 50J 1 SOW 023.

LOCATION.--Lat 37°36'07", long 77°33'14", Hydrologic Unit 02080205, 200 ft north of Three Chopt Road, 1.0 mi southeast of intersection of Three Chopt Road and Parham Road in Richmond. Owner: E. L. Gilman.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in., depth 300 ft, cased to 68 ft, open hole 68 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 17, 1995, bimonthly measurement with chalked tape. June 5, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to June 5, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 275 ft above sea level, from topographic map. Measuring point: Top of casing, 1.88 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

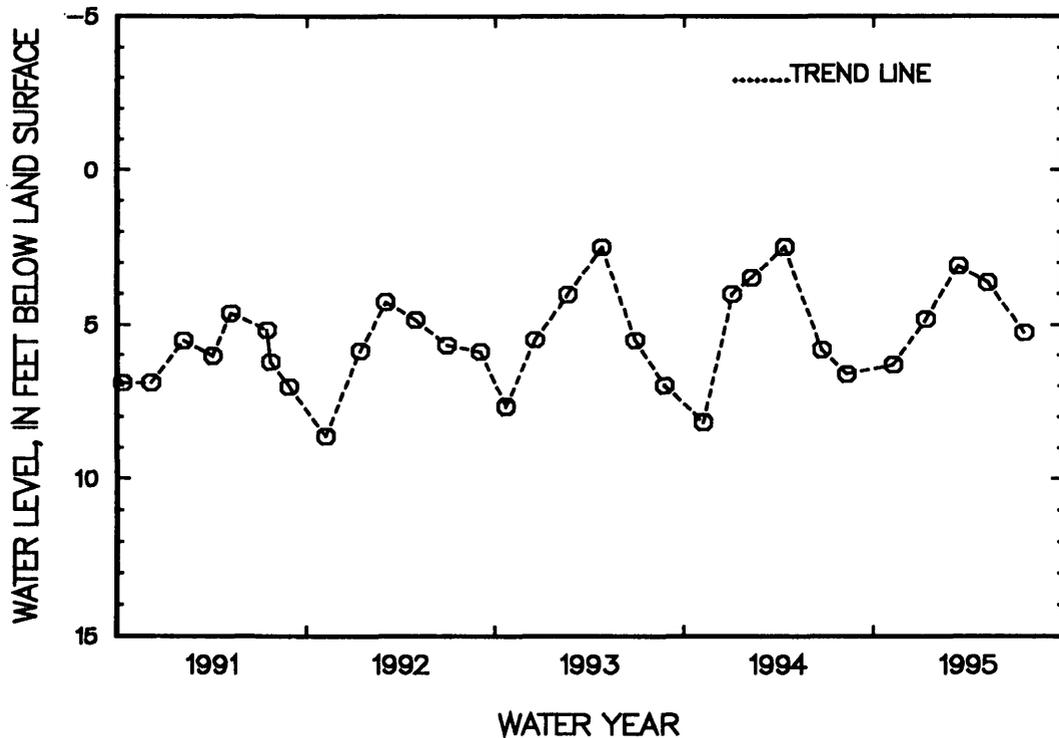
PERIOD OF RECORD.--May 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.48 ft below land-surface datum, June 5, 1970; lowest recorded, 10.43 ft below land-surface datum, Jan. 5, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	6.31	JAN 10	4.81	MAR 14	3.09	MAY 09	3.63	JUL 17	5.25

WATER YEAR 1995 HIGHEST 3.09 MAR 14, 1995 LOWEST 6.31 NOV 09, 1994



GROUND-WATER LEVELS

HENRICO COUNTY

372920077241001. Local number, 51H132 SOW 081.

LOCATION.--Lat 37°29'20", long 77°24'10", Hydrologic Unit 02080206, 100 ft west of State Highway 5, 2.0 mi northwest of intersection of State Highway 5 and Laburnum Avenue, and 5.3 mi southwest of Sandston. Owner: Mike Moses.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 30 in., depth 40 ft, cased to 40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 17, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 160 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

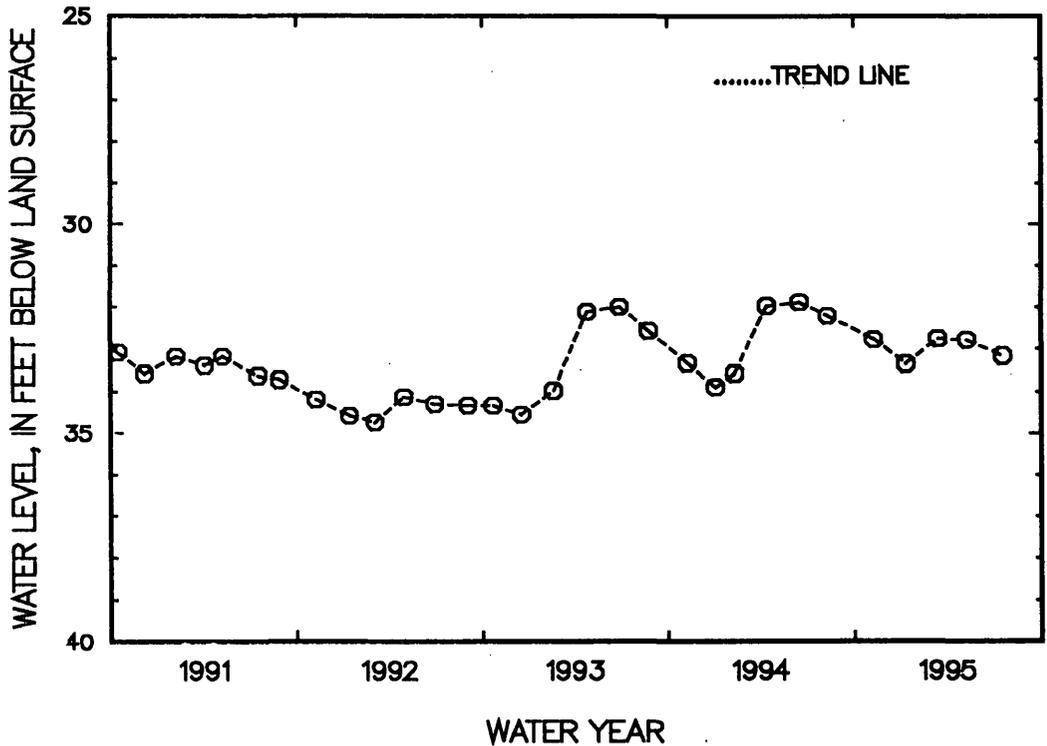
PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.79 ft below land-surface datum, June 16, 1980; lowest measured, 35.23 ft below land-surface datum, Sept. 24, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	32.78	JAN 10	33.35	MAR 14	32.77	MAY 09	32.80	JUL 17	33.17

WATER YEAR 1995 HIGHEST 32.77 MAR 14, 1995 LOWEST 33.35 JAN 10, 1995



HENRICO COUNTY

373428077233001. Local number, 51J 13.

LOCATION.--Lat 37°34'28", long 77°23'30", Hydrologic Unit 02080206, 1,600 ft east of the intersection of U.S. Highway 360 (Mechanicsville Turnpike) and Laburnum Avenue and 500 ft south of Laburnum Avenue at water tower. Owner: Henrico County.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 167 ft, diameter 6 in. from 167 to 275 ft, depth 275 ft, screened 167 to 186 ft, 213 to 226 ft, 248 to 258 ft.

INSTRUMENTATION.--Weekly measurements by Henrico County personnel and occasional measurements with chalked tape by USGS personnel. Prior to Apr. 2, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 168 ft above sea level, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum prior to Apr. 8, 1992; 0.2 ft thereafter.

REMARKS.--Water level affected by regional decline and local pumpage.

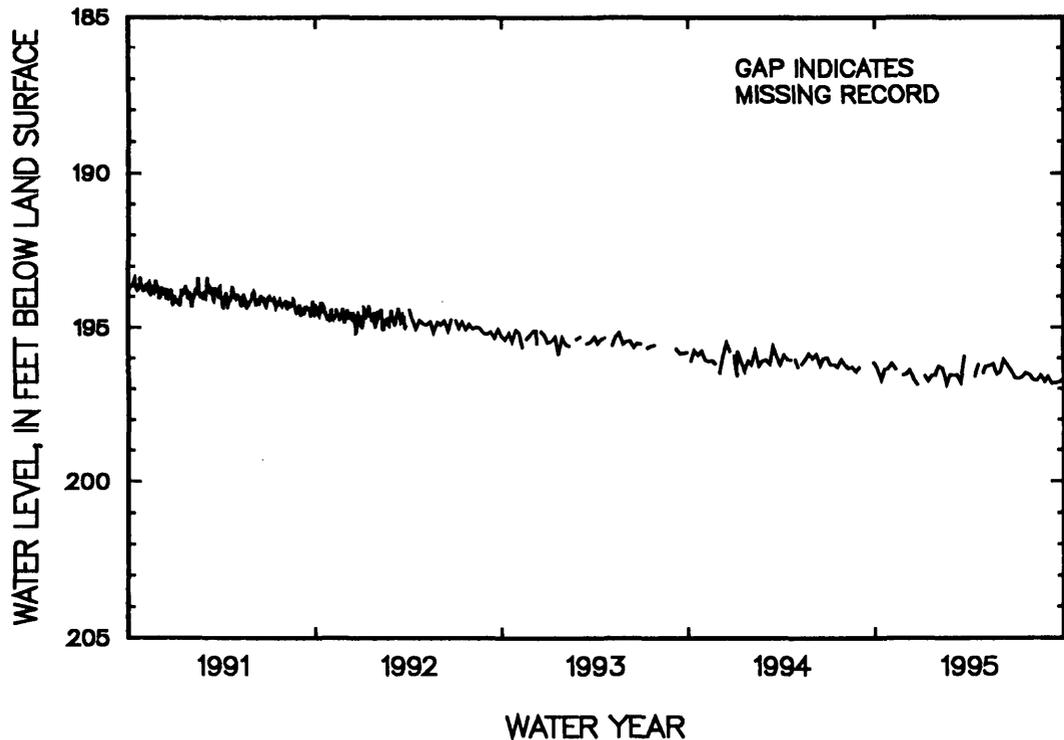
PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 190.85 ft below land-surface datum, Apr. 7, 1988; lowest measured, 196.85 ft below land-surface datum, Dec. 21, 1994, Feb. 15, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 05	196.31	DEC 07	196.40	FEB 08	196.33	APR 19	196.22	JUN 14	196.23	AUG 09	196.73
12	196.71	14	196.70	15	196.85	27	196.47	21	196.41	16	196.57
19	196.35	21	196.85	22	196.55	MAY 03	196.28	28	196.64	23	196.77
26	196.36	JAN 04	196.59	MAR 01	196.57	10	196.25	JUL 05	196.68	30	196.60
NOV 02	196.16	11	196.76	08	196.54	17	196.18	12	196.60	SEP 06	196.83
09	196.35	18	196.56	15	196.79	24	196.52	19	196.48	13	196.82
23	196.55	25	196.57	22	195.94	31	196.45	26	196.55	20	196.80
30	196.52	FEB 01	196.26	APR 12	196.58	JUN 07	196.05	AUG 02	196.71	27	196.70

WATER YEAR 1995 HIGHEST 195.94 MAR 22, 1995 LOWEST 196.85 DEC 21, 1994, FEB 15, 1995



GROUND-WATER LEVELS

HENRICO COUNTY

373817077282501. Local number, 51K 4 SOW 137.

LOCATION.--Lat 37°38'17", long 77°28'25", Hydrologic Unit 02080206, 50 ft east of entrance to J. Sargeant Reynolds Community College, 0.9 mi west of intersection of Parham Road and U.S. Highway 1, and 0.9 mi west of Yellow Tavern. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 280 ft, cased to 35 ft, open hole 35 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 17, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 180 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Sept. 9, 1980; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

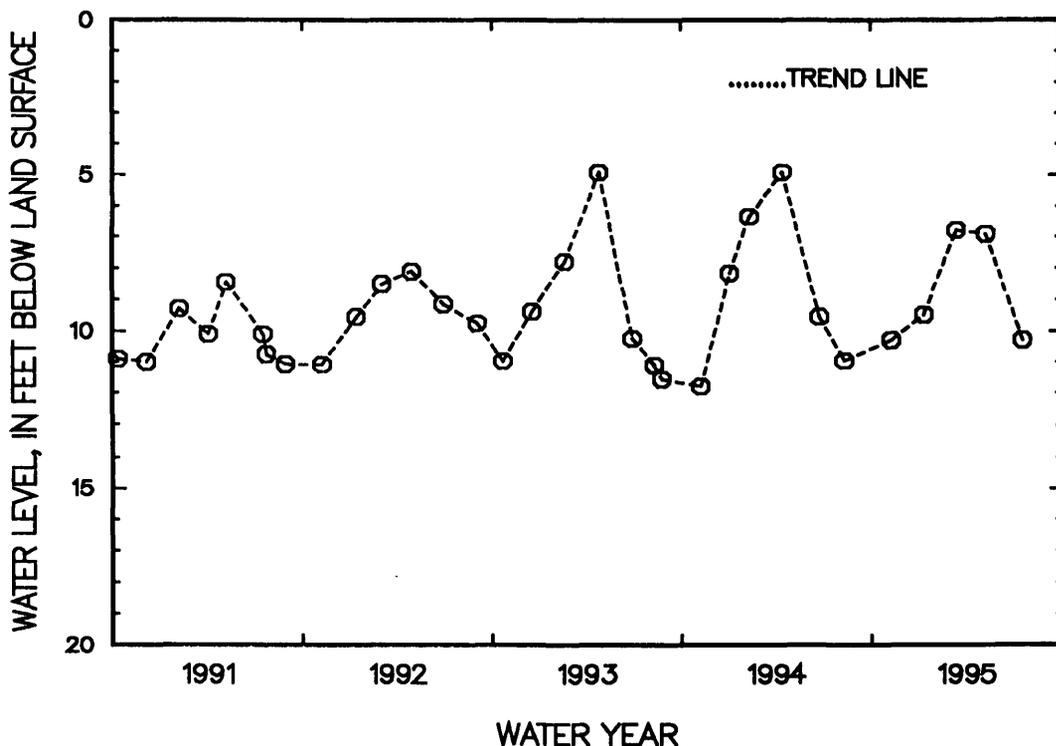
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft below land-surface datum, Apr. 30, 1987; lowest measured, 12.12 ft below land-surface datum, Oct. 6, 1981, Aug. 22, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	10.29	JAN 10	9.48	MAR 14	6.79	MAY 09	6.90	JUL 17	10.29

WATER YEAR 1995 HIGHEST 6.79 MAR 14, 1995 LOWEST 10.29 NOV 09, 1994, JUL 17, 1995



HENRICO COUNTY

372936077211101. Local number, 52H 3 SOW 136.

LOCATION.--Lat 37°29'36", long 77°21'11", Hydrologic Unit 02080206, 100 ft west of Laburnum Avenue, 0.9 mi north of intersection of Laburnum Avenue and Darbytown Road, and 2.4 mi southwest of Sandston. Owner: Nabisco Incorporated.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 209 ft, screened 149 to 159 ft, 199 to 209 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 25, 1985, to July 17, 1995, bimonthly measurement with chalked tape. Prior to Mar. 25, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 150 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

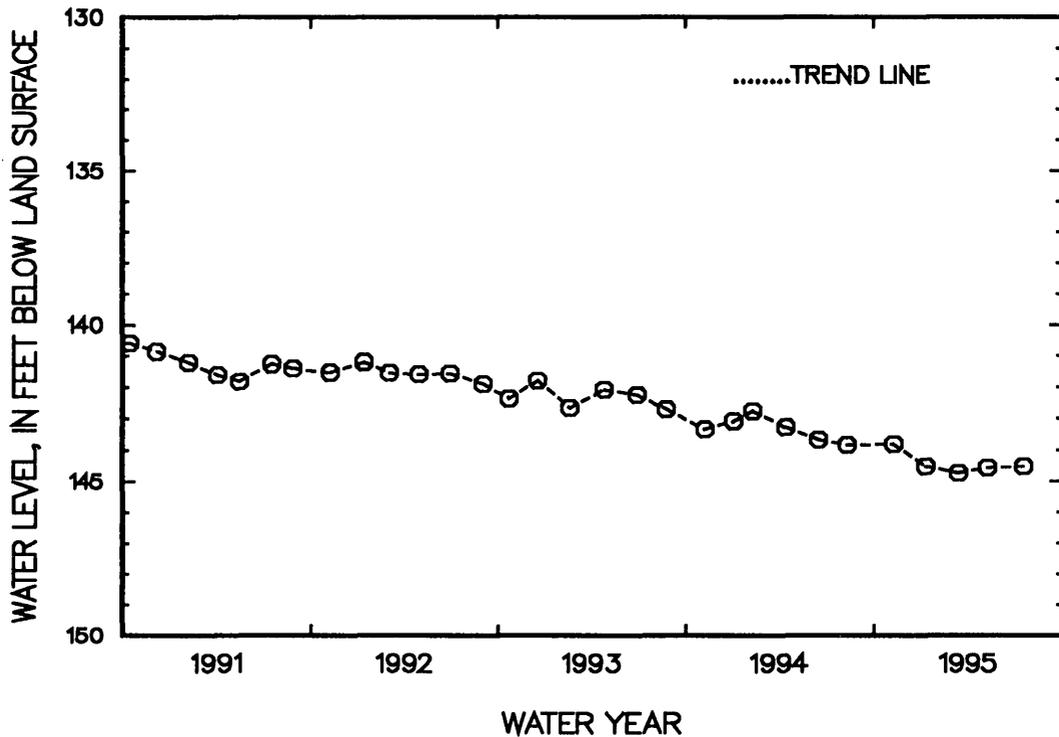
PERIOD OF RECORD.--December 1974 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.42 ft below land-surface datum, Dec. 2, 1974; lowest measured, 144.74 ft below land-surface datum, Mar. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	143.81	JAN 10	144.53	MAR 14	144.74	MAY 09	144.56	JUL 17	144.53

WATER YEAR 1995 HIGHEST 143.81 NOV 09, 1994 LOWEST 144.74 MAR 14, 1995



GROUND-WATER LEVELS

HENRICO COUNTY

373301077194001. Local number, 52J 1.

LOCATION.--Lat 37°33'01", long 77°19'40", Hydrologic Unit 02080206, at the intersection of Daisy and Vine Streets, at water tower in Highland Springs. Owner: Henrico County.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in. to 212 ft, diameter 6 in. from 212 to 306 ft, depth 306 ft, screened 212 to 306 ft.

INSTRUMENTATION.--Weekly measurements by Henrico County personnel and occasional measurements with chalked tape by USGS personnel. Prior to Apr. 2, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 172 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

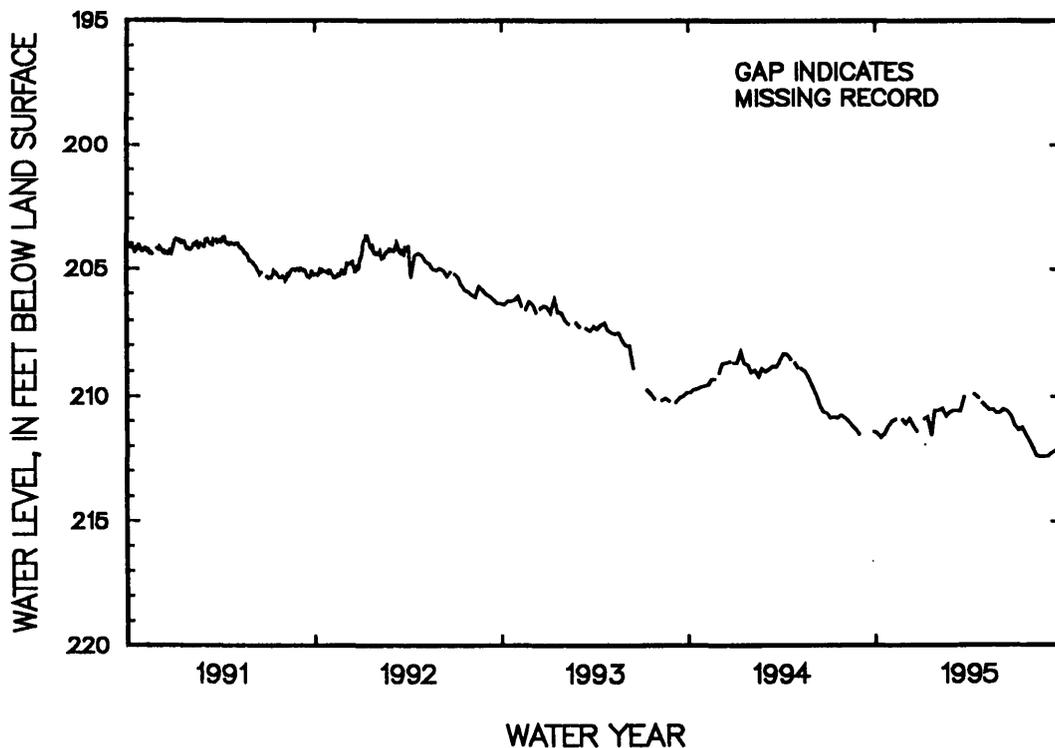
PERIOD OF RECORD.--January 1988 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 197.64 ft below land-surface datum, Jan. 25, 26, 1988; lowest measured, 212.40 ft below land-surface datum, Aug. 23, 30, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 05	211.45	DEC 07	210.90	FEB 08	210.48	APR 19	210.03	JUN 14	210.59	AUG 09	212.35
12	211.62	14	211.19	15	210.79	27	210.26	21	210.78	16	212.38
19	211.46	21	211.36	22	210.64	MAY 03	210.37	28	211.12	23	212.40
26	211.20	JAN 04	210.90	MAR 01	210.56	10	210.53	JUL 05	211.33	30	212.40
NOV 02	210.99	11	210.83	08	210.55	17	210.51	12	211.24	SEP 06	212.25
09	210.93	18	211.55	15	210.59	24	210.67	19	211.50	13	212.17
23	210.95	25	210.56	22	210.00	31	210.63	26	211.75	20	212.07
30	211.09	FEB 01	210.56	APR 12	209.90	JUN 07	210.51	AUG 02	212.03	27	211.99

WATER YEAR 1995 HIGHEST 209.90 APR 12, 1995 LOWEST 212.40 AUG 23, 30, 1995



HENRICO COUNTY

373125077185001. Local number, 52J 34.

LOCATION.--Lat 37°31'25", long 77°18'50", Hydrologic Unit 02080206, 300 ft north of the intersection of U.S. Highway 60 (Williamsburg Road) and Finley Drive and 200 ft east of Finley Drive. Owner: Henrico County.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in. to 165 ft, diameter 8 in. from 165 to 272 ft, depth 272 ft, screened 222 to 265 ft.

INSTRUMENTATION.--Weekly measurements by Henrico County personnel and occasional measurements with chalked tape by USGS personnel. Prior to Feb. 18, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 162 ft above sea level, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

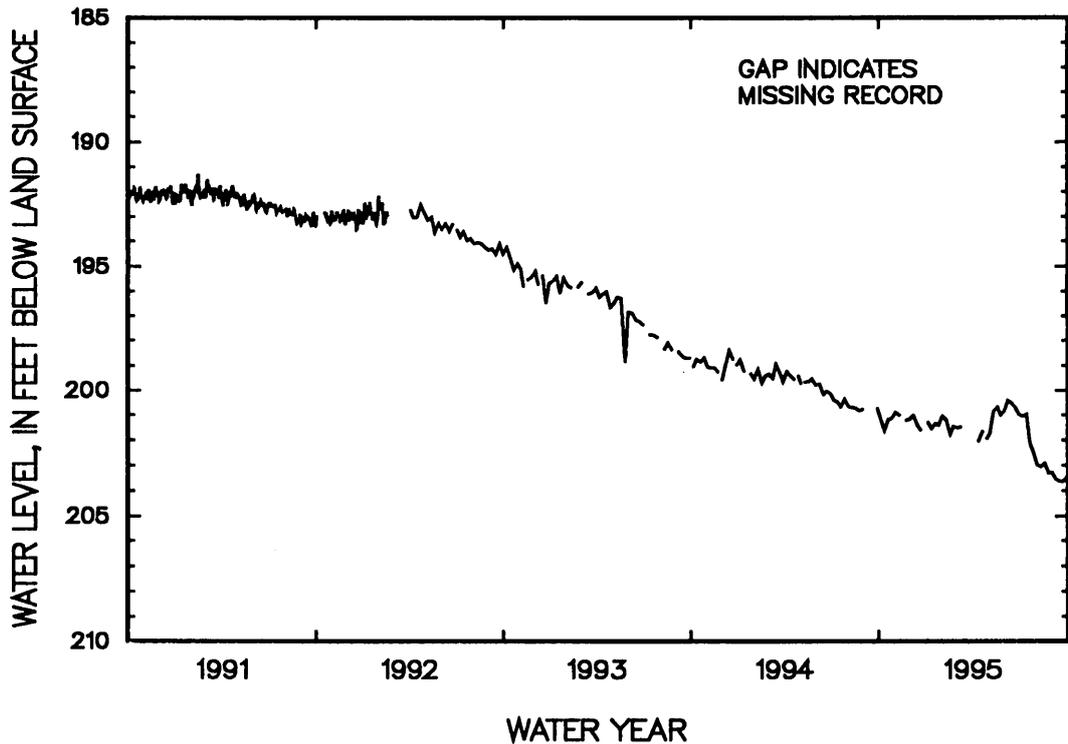
PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 187.76 ft below land-surface datum, Apr. 7, 1988; lowest measured, 203.64 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 05	201.17	DEC 07	201.04	FEB 08	201.20	MAY 03	201.77	JUN 28	200.98	AUG 23	203.30
12	201.60	14	201.40	15	201.77	10	200.87	JUL 05	201.06	30	203.29
19	201.19	21	201.57	22	201.44	17	200.68	12	200.97	SEP 06	203.54
26	201.17	JAN 04	201.30	MAR 01	201.50	24	201.00	19	202.10	13	203.61
NOV 02	200.89	11	201.51	08	201.48	31	200.82	26	202.49	20	203.64
09	201.01	18	201.34	APR 12	202.01	JUN 07	200.41	AUG 02	202.97	27	203.50
23	201.21	25	201.39	19	201.64	14	200.54	09	203.05		
30	201.18	FEB 01	201.05	27	201.93	21	200.72	16	202.90		

WATER YEAR 1995 HIGHEST 200.41 JUN 07, 1995 LOWEST 203.64 SEP 20, 1995



GROUND-WATER LEVELS

HENRICO COUNTY

373117077210201. Local number, 52J 35.

LOCATION.--Lat 37°31'17", long 77°21'02", Hydrologic Unit 02080206, 400 ft east of the intersection of South Laburnum Avenue and Finley Street, on Finley Street. Owner: Henrico County.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 265 ft, screened 220 to 260 ft.

INSTRUMENTATION.--Weekly measurements by Henrico County personnel and occasional measurements with chalked tape by USGS personnel. Prior to Apr. 2, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 160 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

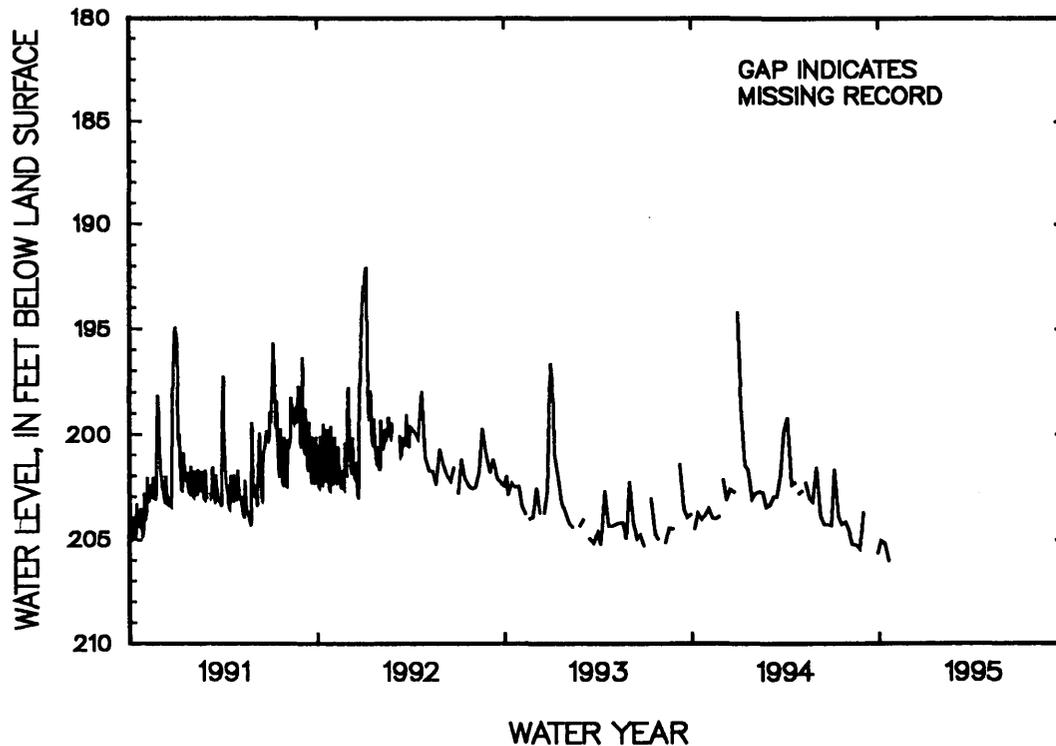
REMARKS.--Water level affected by local pumpage and regional drawdown. Well destroyed.

PERIOD OF RECORD.--January 1988 to October 1994 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 191.24 ft below land-surface datum, Jan. 20, 1988; lowest recorded, 206.84 ft below land-surface datum, Oct. 27, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	205.04	OCT 12	205.17	OCT 19	206.02



HENRICO COUNTY

37255077153001. Local number, 53H 2.

LOCATION.--Lat 37°25'55", long 77°15'30", Hydrologic Unit 02080206, 0.7 mi south of the intersection of State Highways 156 (Willis Church Road) and 600 (Charles City Road) at the Glendale National Cemetery, 5.0 mi southwest of the city of Richmond. Owner: U.S. Department of Veterans Affairs.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 232 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 128 ft above sea level, from topographic map. Measuring point: Top of casing, 3.95 ft below land-surface datum.

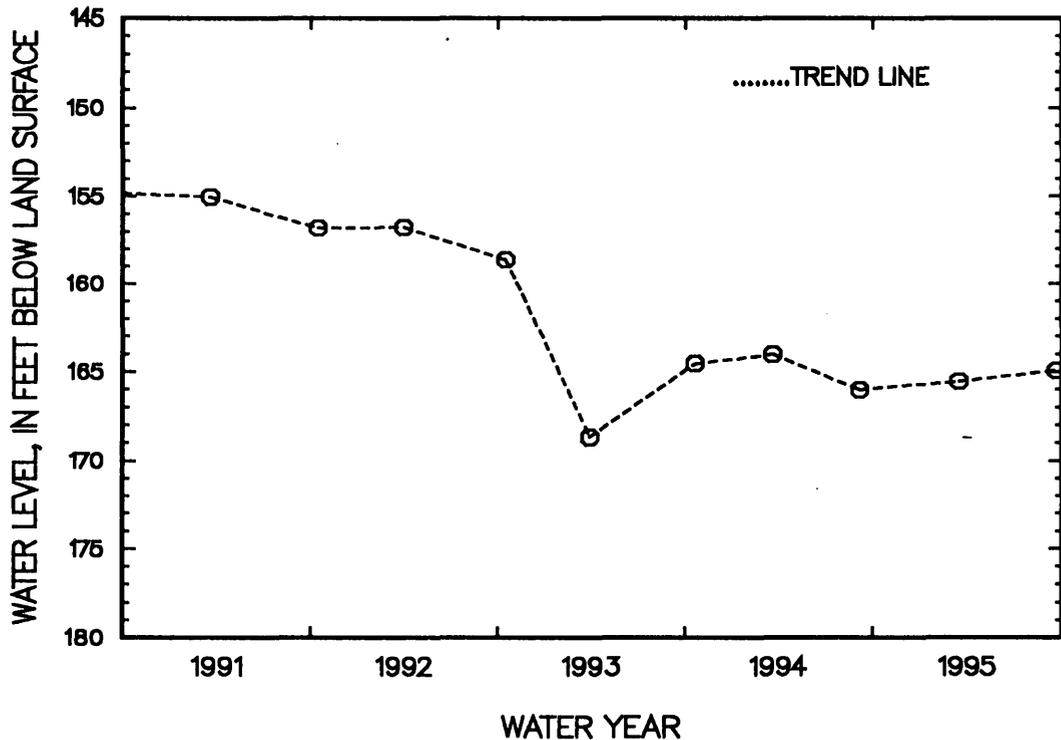
REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--January 1943, November 1973, October 1983 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 128.00 ft below land-surface datum, Jan. 1, 1943; lowest measured, 168.68 ft below land-surface datum, Mar. 30, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	DATE	WATER LEVEL	DATE	WATER LEVEL		
	MAR 17	165.55	SEP 20	164.93		
WATER YEAR 1995	HIGHEST	164.93	SEP 20, 1995	LOWEST	165.55	MAR 17, 1995



GROUND-WATER LEVELS

CITY OF HOPEWELL

371801077164201. Local number, 52G 1.

LOCATION.--Lat 37°18'01", long 77°16'42", Hydrologic Unit 02080206, 0.2 mi north of intersection of State Highways 10 and 156 in Hopewell. Owner: Virginia American Water Corporation.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 300 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to July 5, 1994, weekly measurement with chalked tape by USGS observer.

DATUM.--Elevation of land-surface datum is 50.26 ft above sea level. Measuring point: Top of casing, 0.34 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--May 1939 to September 1995 (discontinued).

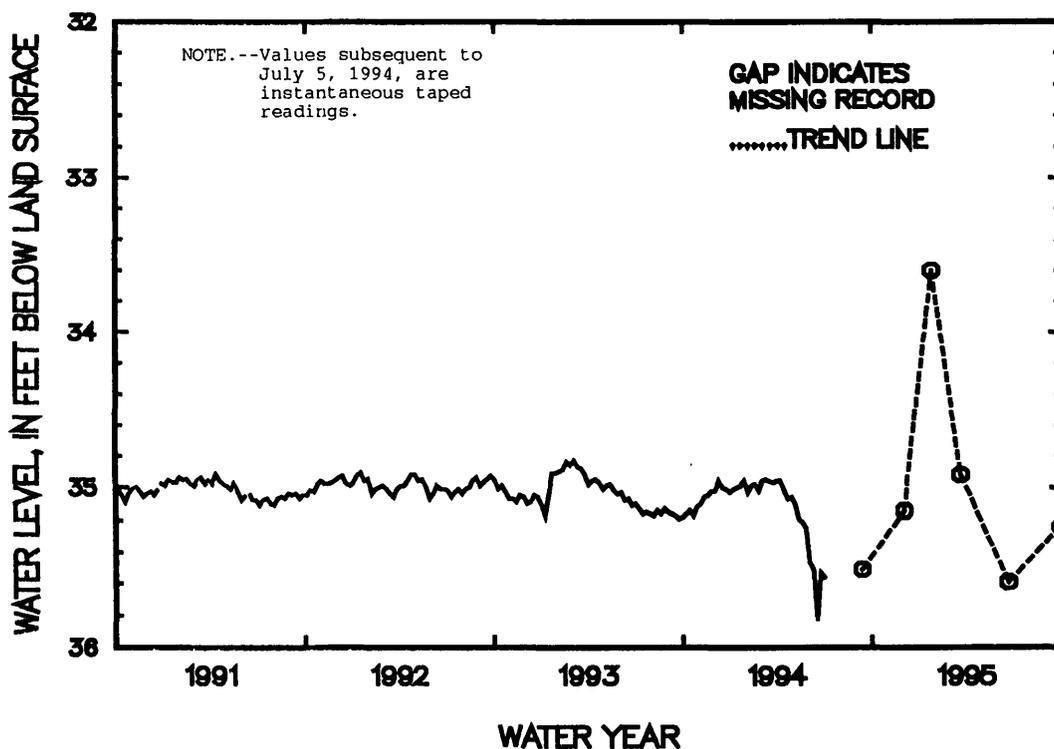
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.56 ft below land-surface datum, Sept. 7, 1979; lowest measured, 56.95 ft below land-surface datum, Aug. 14, 1943.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
DEC 02	35.14	JAN 25	33.60	MAR 21	34.92	JUN 19	35.59	SEP 26	35.24

WATER YEAR 1995 HIGHEST 33.60 JAN 26, 1995 LOWEST 35.59 JUN 19, 1995

DAILY LOW-WATER LEVELS



CITY OF HOPEWELL

371727077160401. Local number, 52G 15 SOW 142A.

LOCATION.--Lat 37°17'27", long 77°16'04", Hydrologic Unit 02080206, 0.2 mi south of State Highway 10, 0.8 mi east of State Highway 156 in Hopewell. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 100 ft, screened 84 to 94 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

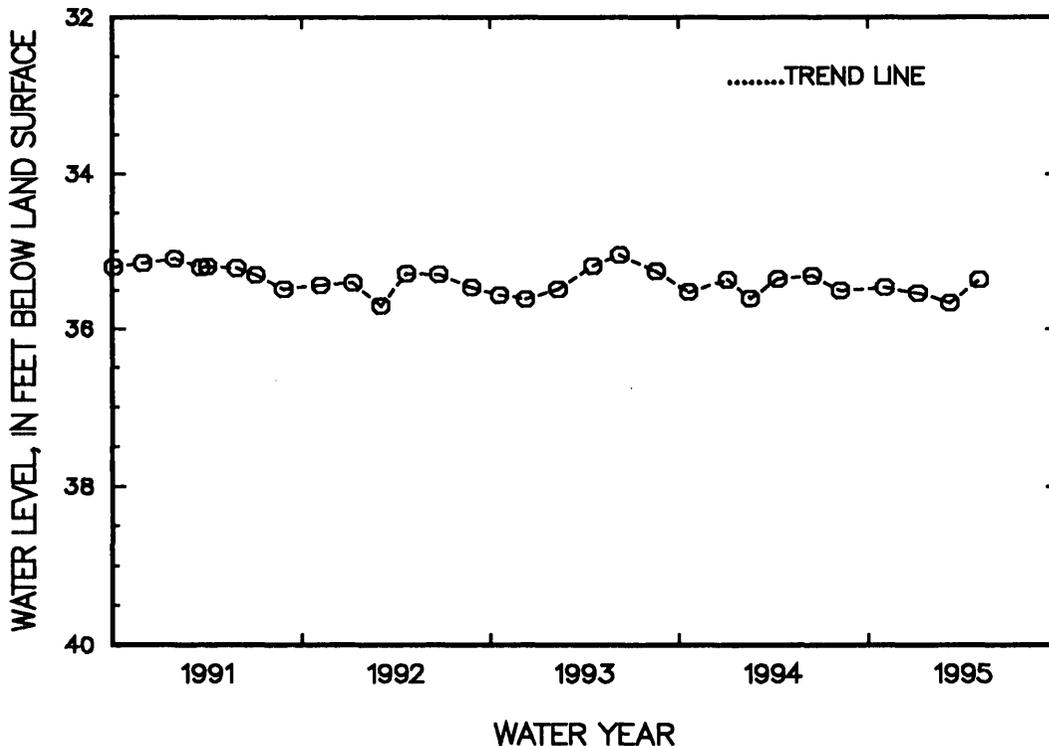
PERIOD OF RECORD.--March 1985 to May 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.67 ft below land-surface datum, Feb. 24, 1986; lowest measured, 35.70 ft below land-surface datum, Mar. 3, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994 TO MAY 1995

DATE	WATER LEVEL						
NOV 03	35.46	JAN 06	35.53	MAR 08	35.66	MAY 03	35.36

PERIOD OCTOBER 1994 TO MAY 1995 HIGHEST 35.36 MAY 03, 1995 LOWEST 35.66 MAR 08, 1995



GROUND-WATER LEVELS

CITY OF HOPEWELL

371727077160402. Local number, 52G 16 SOW 142B.

LOCATION.--Lat 37°17'27", long 77°16'04", Hydrologic Unit 02080206, 0.2 mi south of State Highway 10, 0.8 mi east of State Highway 156 in Hopewell. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 164 ft, screened 154 to 164 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

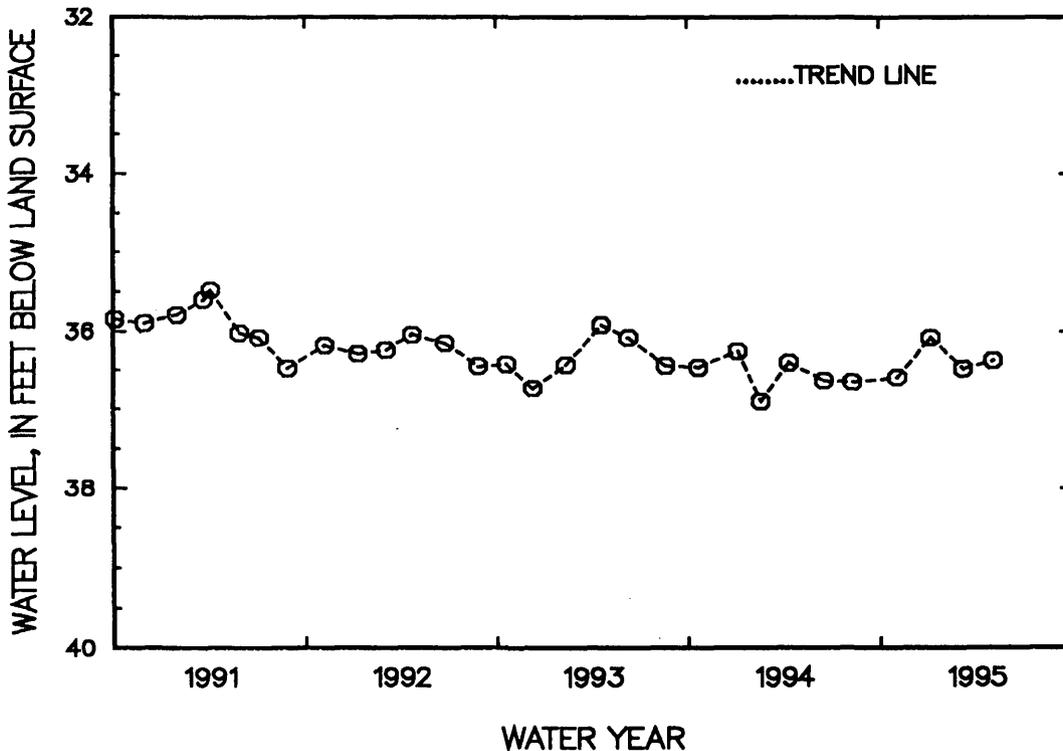
PERIOD OF RECORD.--March 1985 to May 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.93 ft below land-surface datum, Feb. 24, 1986; lowest measured, 36.90 ft below land-surface datum, Feb. 17, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994 TO MAY 1995

DATE	WATER LEVEL						
NOV 03	36.59	JAN 06	36.08	MAR 08	36.48	MAY 03	36.37

PERIOD OCTOBER 1994 TO MAY 1995 HIGHEST 36.08 JAN 06, 1995 LOWEST 36.59 NOV 03, 1994



ISLE OF WIGHT COUNTY

364059076544901. Local number, 55B 16.

LOCATION.--Lat 36°40'59", long 76°54'49", Hydrologic Unit 03010202, off U.S. Highways 258 and 58, 200 ft west of the intersection of U.S. Highways 258 and 58 and Lynn Road, and 0.3 mi east of Franklin. Owner: Union Camp Corporation.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 305 ft, screened 285 to 305 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to May 27, 1988, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 25 ft above sea level, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Highest water level for the 1995 water year may have occurred during this period. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 99.00 ft below land-surface datum, Dec. 27, 1960; lowest recorded, 216.72 ft below land-surface datum, May 23, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

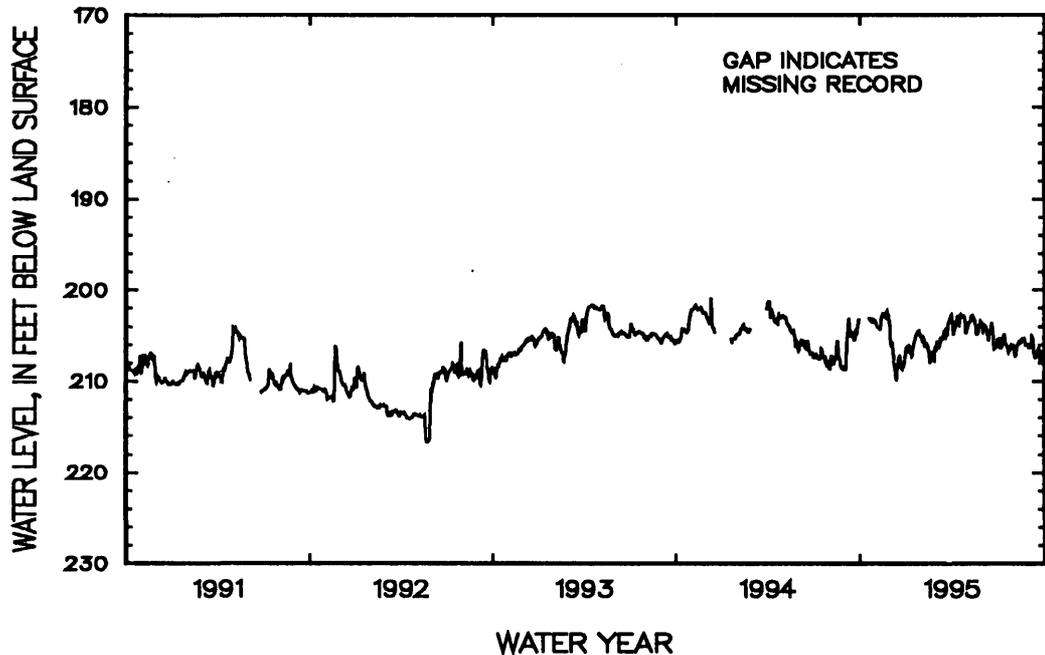
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	204.00	205.91	206.44	205.47	206.29	204.52	203.59	203.95	205.75	206.88	205.08
10	---	204.29	208.40	206.90	205.90	205.23	203.39	202.71	204.82	205.21	205.86	207.12
15	---	202.76	208.39	206.15	206.88	205.11	203.90	203.46	204.64	205.84	205.59	206.77
20	203.11	202.88	207.42	204.98	207.40	204.71	202.92	204.80	204.50	206.58	205.47	207.26
25	203.46	202.95	208.22	204.55	207.74	203.76	202.93	203.77	206.16	206.14	205.99	206.75
EOM	203.52	205.03	206.65	205.11	206.60	202.76	204.29	204.46	205.38	206.33	206.28	206.22

WATER YEAR 1995 HIGHEST INSTANTANEOUS a202.26 NOV 24, 1994

LOWEST INSTANTANEOUS 209.84 DEC 13, 1994

a May have gone higher during period of missing record.

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

364125076544801. Local number, 55B 36.

LOCATION.--Lat 36°41'25", long 76°54'48", Hydrologic Unit 03010202, on Lynn Road, 0.45 mi north of intersection with U.S. Highways 258 and 58, and 0.7 mi northeast of Franklin. Owner: Union Camp Corporation.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 860 ft, screened 720 to 725 ft, 800 to 805 ft, 855 to 860 ft.

INSTRUMENTATION.--Monthly measurements with chalked tape by USGS personnel. October 1986 to August 1993, continuous strip-chart recorder. September 1983 to October 1986, occasional measurement with chalked tape. October 1982 to September 1983, continuous strip-chart recorder. November 1972 to October 1982, occasional measurement with chalked tape. July 1969 to November 1972, continuous strip-chart recorder. Prior to July 1969, continuous strip-chart recorder and occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 37 ft above sea level, from topographic map. Measuring point: Top of casing, 4.56 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--March 1969 to current year.

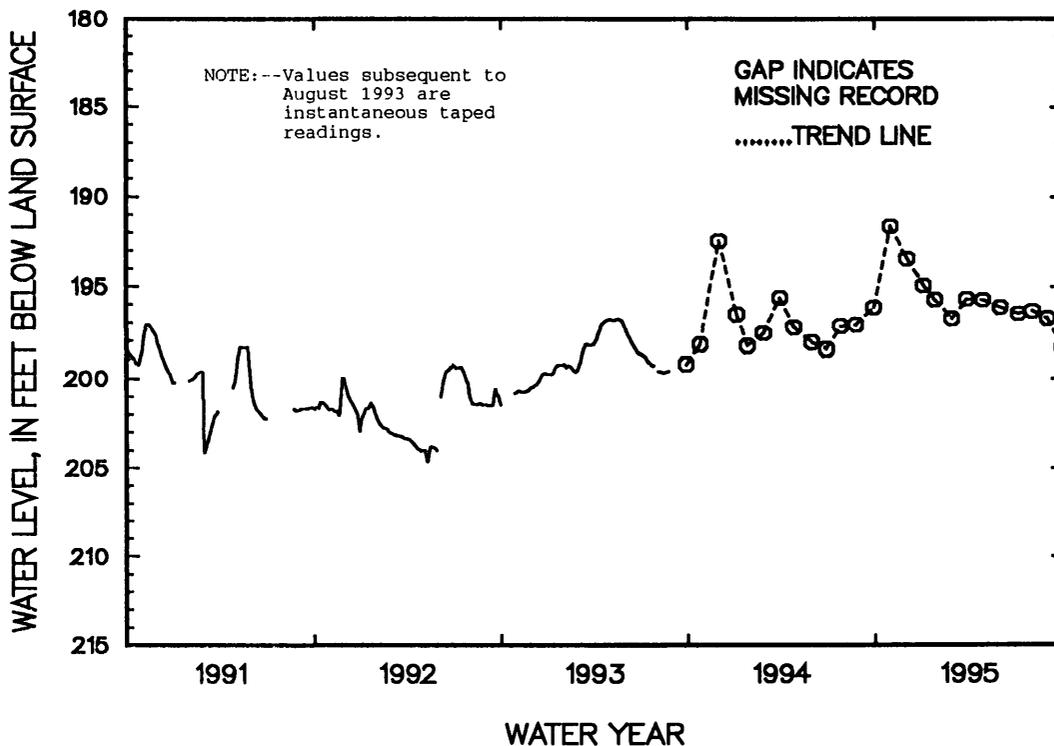
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 156.65 ft below land-surface datum, Dec. 27, 1969; lowest measured, 219.29 ft below land-surface datum, May 18, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 31	191.63	JAN 03	194.93	FEB 27	196.77	APR 28	195.73	JUL 05	196.50	AUG 30	196.76
DEC 02	193.43	25	195.72	MAR 27	195.69	MAY 31	196.15	AUG 01	196.36	SEP 27	198.37

WATER YEAR 1995 HIGHEST 191.63 OCT 31, 1994 LOWEST 198.37 SEP 27, 1995

DAILY LOW-WATER LEVELS



ISLE OF WIGHT COUNTY

364101076544803. Local number, 55B 62 SOW 096B.

LOCATION.--Lat 36°41'01", long 76°54'48", Hydrologic Unit 03010202, 200 ft northwest of intersection of U.S. Highways 58 and 258 and Lynn Road, 0.3 mi east of Franklin. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 30.77 ft, screened 25 to 30 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to October 1987, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 27 ft above sea level, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum.

REMARKS.--Low-water level in August 1994 is the result of the well being pumped for water-quality sampling.

PERIOD OF RECORD.--May 1979, October 1980 to September 1981, October 1982 to September 1983, October 1984 to September 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 9.40 ft below land-surface datum, Mar. 21, 22, 1995; lowest measured, 15.38 ft below land-surface datum, Oct. 17, 1980.

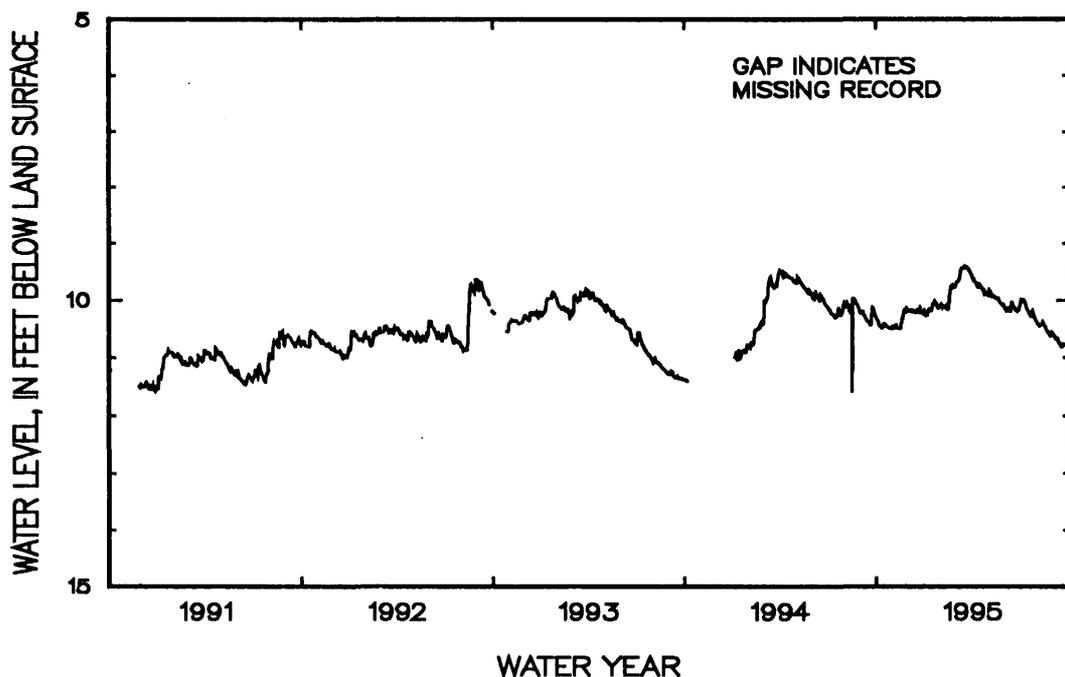
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.37	10.49	10.18	10.27	10.10	9.68	9.68	9.85	10.19	9.99	10.46	10.68
10	10.47	10.50	10.19	10.18	10.12	9.48	9.77	9.94	10.19	10.08	10.42	10.75
15	10.41	10.51	10.22	10.15	10.15	9.45	9.73	9.95	10.07	10.20	10.47	10.82
20	10.45	10.32	10.20	10.02	9.76	9.45	9.82	9.97	10.17	10.29	10.55	10.78
25	10.49	10.18	10.20	10.13	9.78	9.48	9.85	10.05	10.19	10.26	10.63	10.76
EOM	10.51	10.17	10.25	10.09	9.76	9.58	9.91	10.14	10.06	10.38	10.61	10.78

WATER YEAR 1995 HIGHEST INSTANTANEOUS 9.40 MAR 21, 22, 1995

LOWEST INSTANTANEOUS 10.82 SEP 15, 16, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

365305076380001. Local number, 56C 1.

LOCATION.--Lat 36°50'06", long 76°50'03", Hydrologic Unit 03010202, 0.13 mi west of State Highway 614, 2.2 mi south of Zuni. Owner: Zuni Presbyterian Training Center.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water well, diameter 8 in., depth 434 ft, screened 418 to 434 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of pump base, 1.7 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

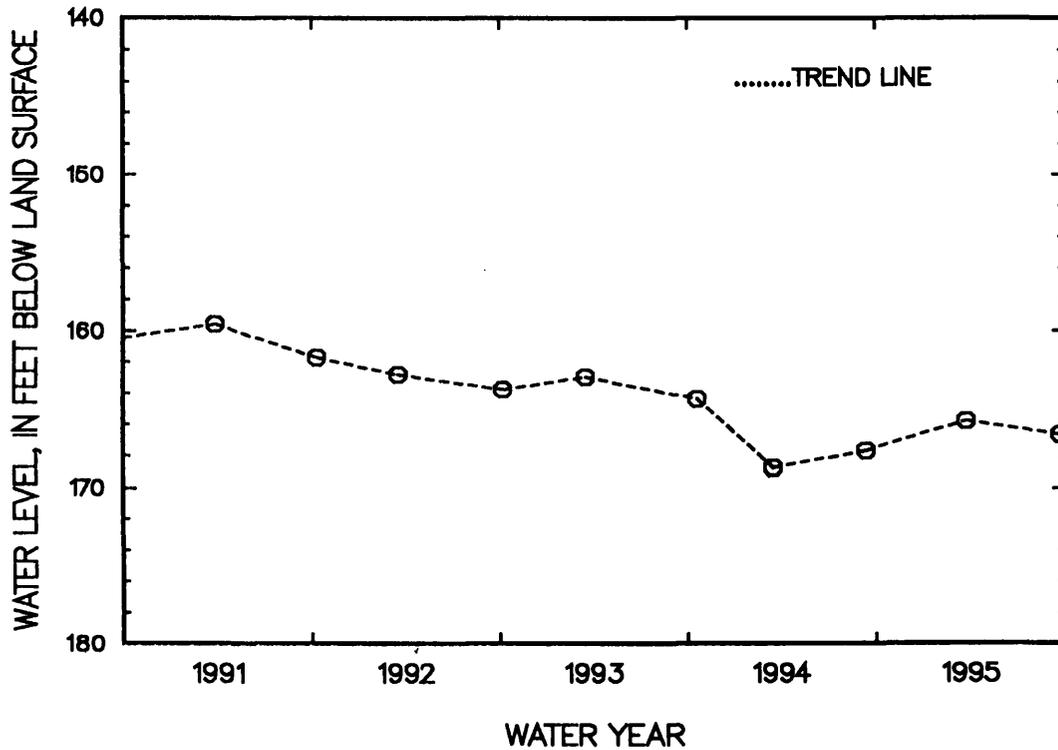
PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.02 ft below land-surface datum, Aug. 27, 1970; lowest measured, 168.75 ft below land-surface datum, Mar. 16, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	165.78	SEP 20	166.69

WATER YEAR 1995 HIGHEST 165.78 MAR 24, 1995 LOWEST 166.69 SEP 20, 1995



ISLE OF WIGHT COUNTY

364814076440701. Local number, 57C 25 SOW 149A.

LOCATION.--Lat 36°48'14", long 76°44'07", Hydrologic Unit 02080208, at Windsor Community Center in Windsor.
Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 26 ft, screened 16 to 26 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1985, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 70 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

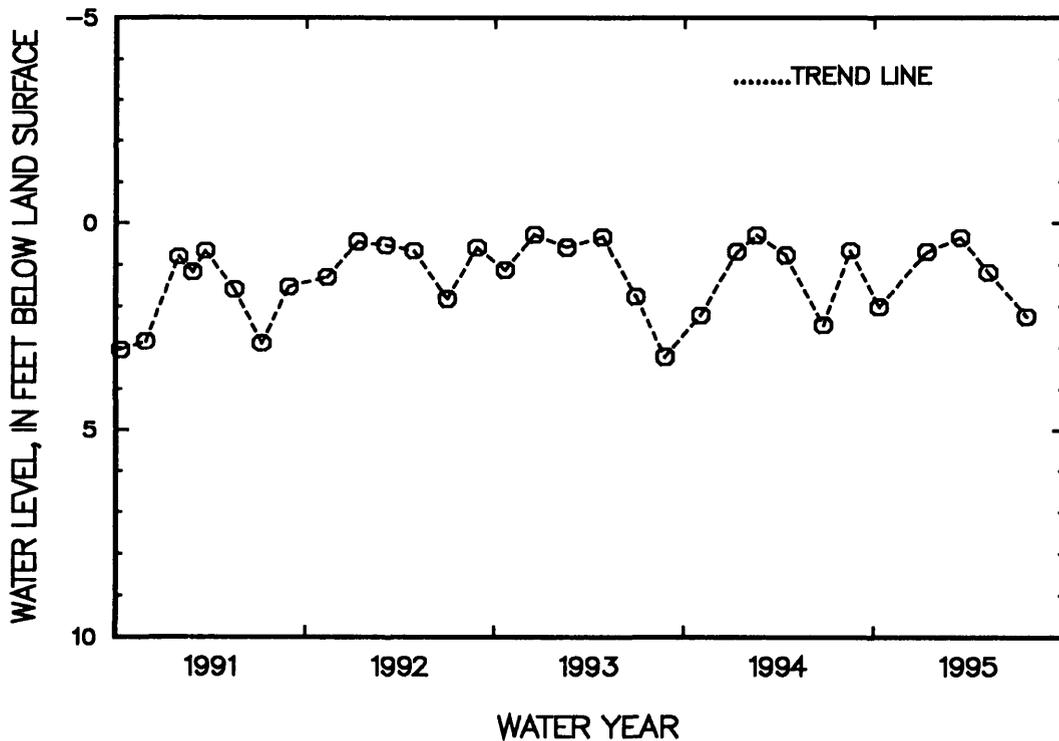
PERIOD OF RECORD.--March 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.27 ft above land-surface datum, Feb. 23, 1987; lowest measured, 3.29 ft below land-surface datum, July 22, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	2.02	JAN 11	0.69	MAR 16	0.35	MAY 08	1.19	JUL 19	2.25

WATER YEAR 1995 HIGHEST 0.35 MAR 16, 1995 LOWEST 2.25 JUL 19, 1995



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

364814076440702. Local number, 57C 26 SOW 149B.

LOCATION.--Lat 36°48'14", long 76°44'07", Hydrologic Unit 02080208, at Windsor Community Center in Windsor.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 380 ft, screened 370 to 380 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 70 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

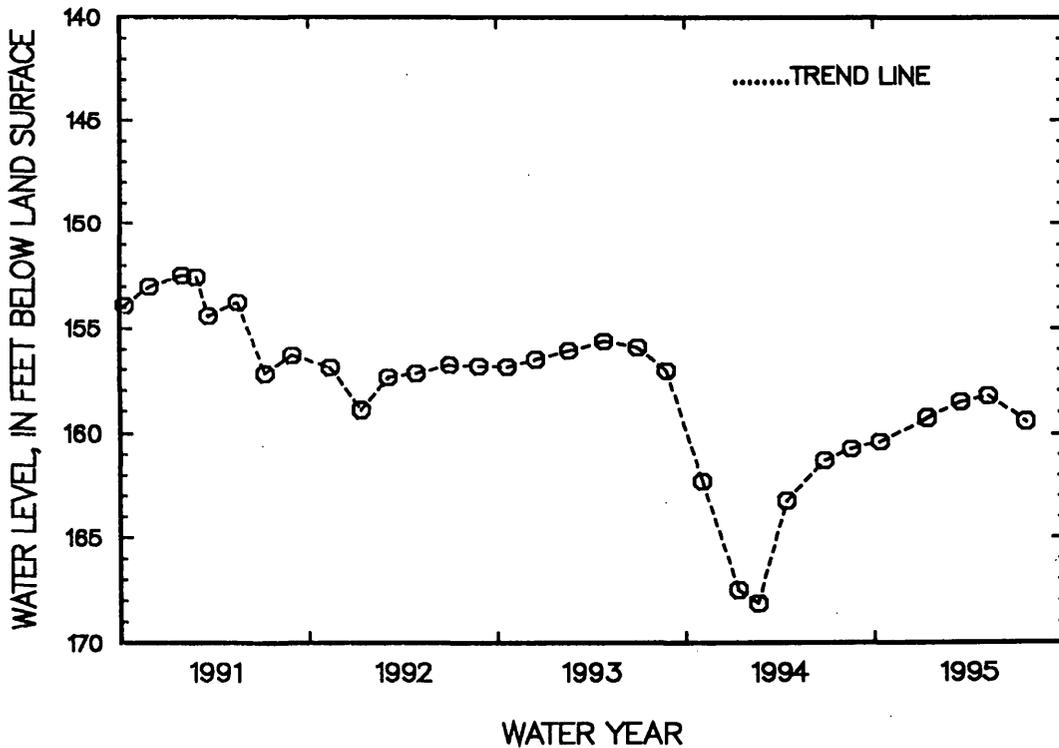
PERIOD OF RECORD.--March 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 144.42 ft below land-surface datum, Feb. 25, 1986; lowest measured, 168.14 ft below land-surface datum, Feb. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	160.37	JAN 11	159.25	MAR 16	158.52	MAY 08	158.25	JUL 19	159.40

WATER YEAR 1995 HIGHEST 158.25 MAY 08, 1995 LOWEST 160.37 OCT 12, 1994



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

365751076433501. Local number, 57D 21 SOW 143A.

LOCATION.--Lat 36°57'51", long 76°43'35", Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 650 ft, screened 640 to 650 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

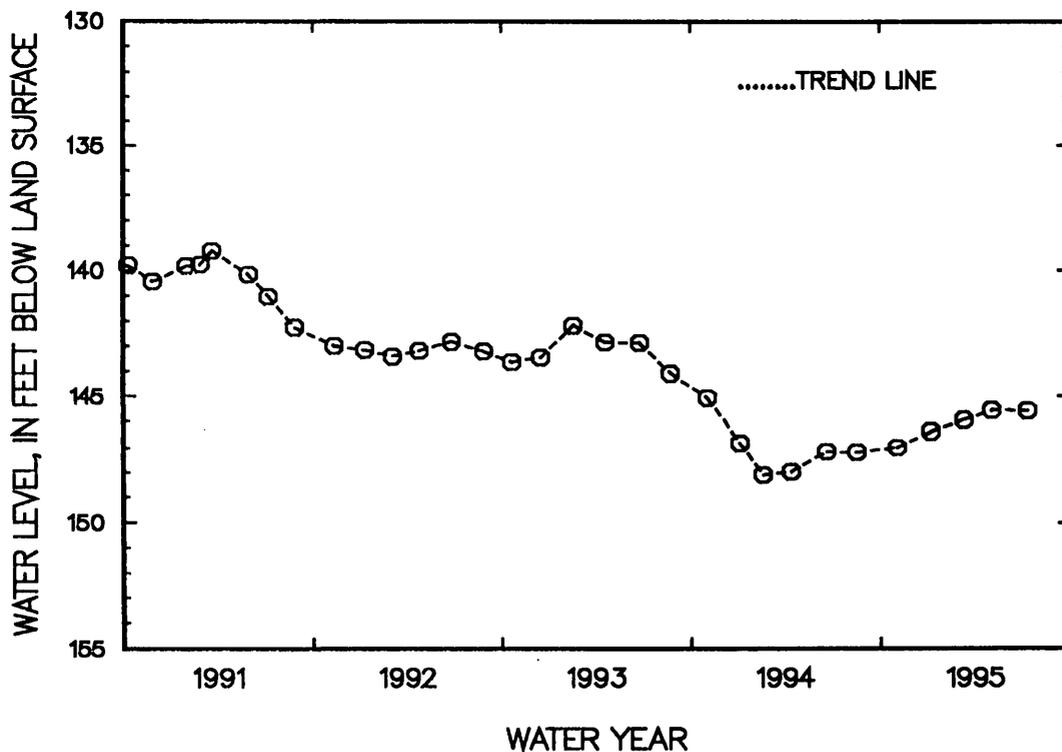
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 122.60 ft below land-surface datum, Aug. 27, 1980; lowest measured, 148.07 ft below land-surface datum, Feb. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	146.97	JAN 06	146.35	MAR 10	145.92	MAY 03	145.55	JUL 10	145.56

WATER YEAR 1995 HIGHEST 145.55 MAY 03, 1995 LOWEST 146.97 NOV 03, 1994



ISLE OF WIGHT COUNTY

365751076433502. Local number, 57D 22 SOW 143B.

LOCATION.--Lat 36°57'51", long 76°43'35", Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 350 ft, screened 340 to 350 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

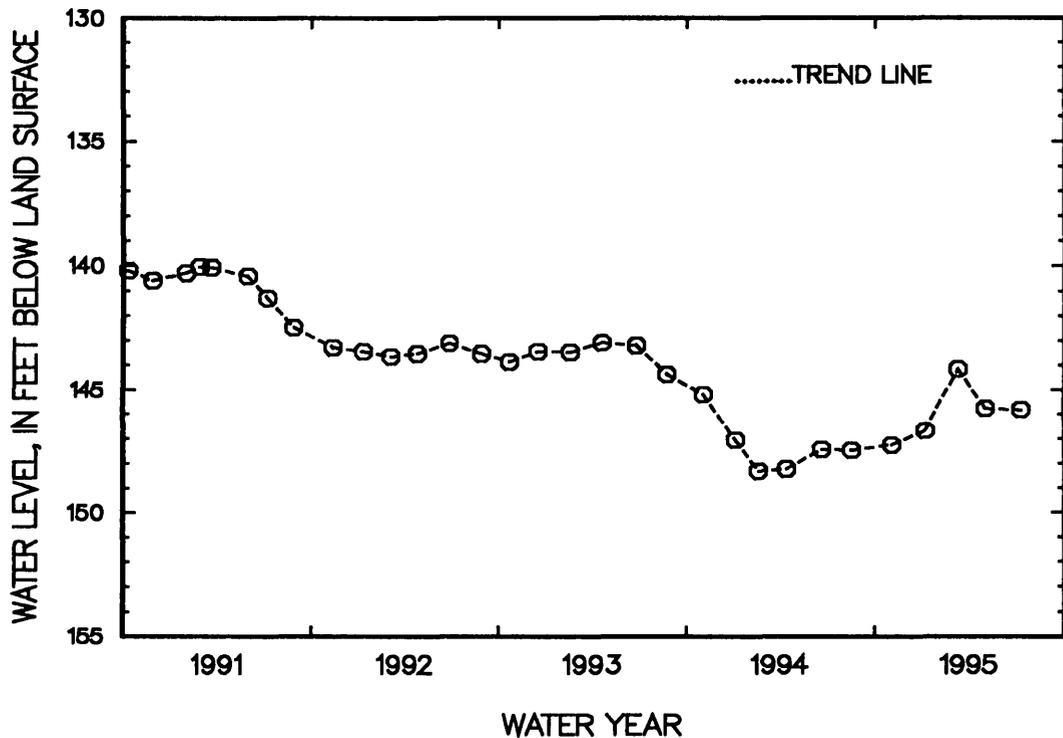
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.10 ft below land-surface datum, Apr. 24, May 29, 1980; lowest measured, 148.32 ft below land-surface datum, Feb. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	147.24	JAN 06	146.66	MAR 10	144.16	MAY 03	145.76	JUL 10	145.82

WATER YEAR 1995 HIGHEST 144.16 MAR 10, 1995 LOWEST 147.24 NOV 03, 1994



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

365751076433503. Local number, 57D 23 SOW 143C.

LOCATION.--Lat 36°57'51", long 76°43'35", Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 18 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

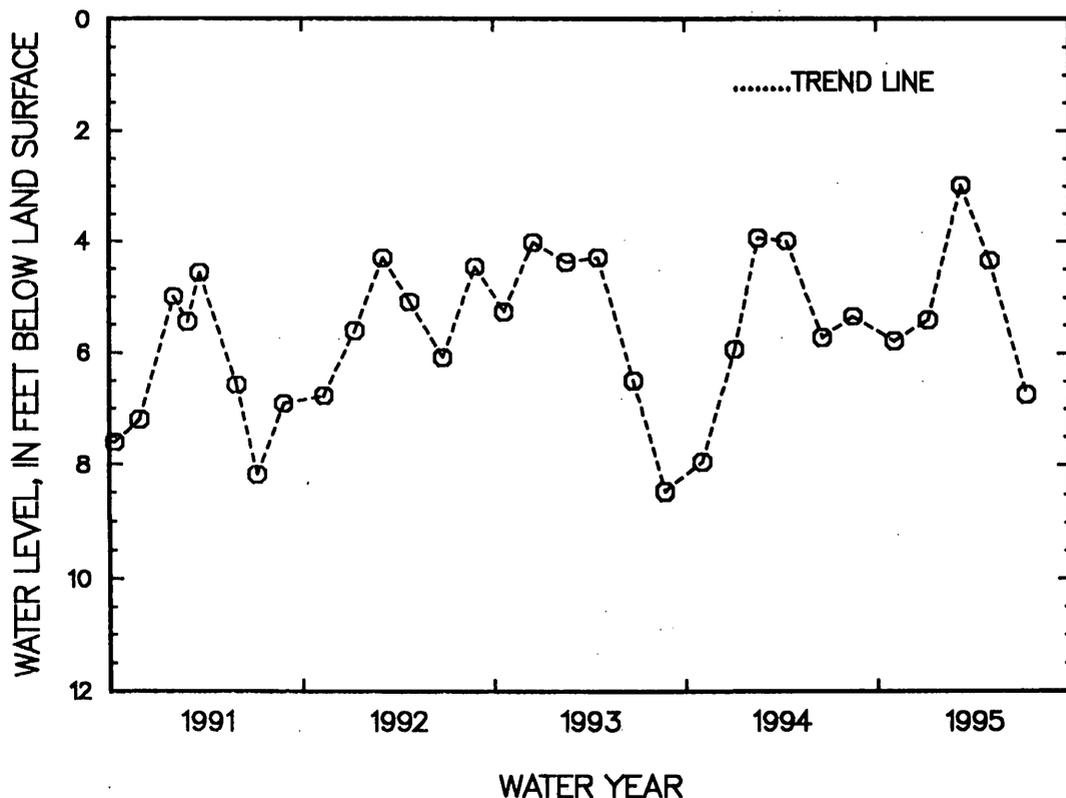
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.29 ft below land-surface datum, Feb. 23, 1987; lowest measured, 8.70 ft below land-surface datum, Aug. 11, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	5.78	JAN 06	5.40	MAR 10	2.98	MAY 03	4.34	JUL 10	6.74

WATER YEAR 1995 HIGHEST 2.98 MAR 10, 1995 LOWEST 6.74 JUL 10, 1995



ISLE OF WIGHT COUNTY

370236076425901. Local number, 57E 10 SOW 144B.

LOCATION.--Lat 37°02'36", long 76°42'59", Hydrologic Unit 02080206, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 440 ft, screened 430 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 85 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

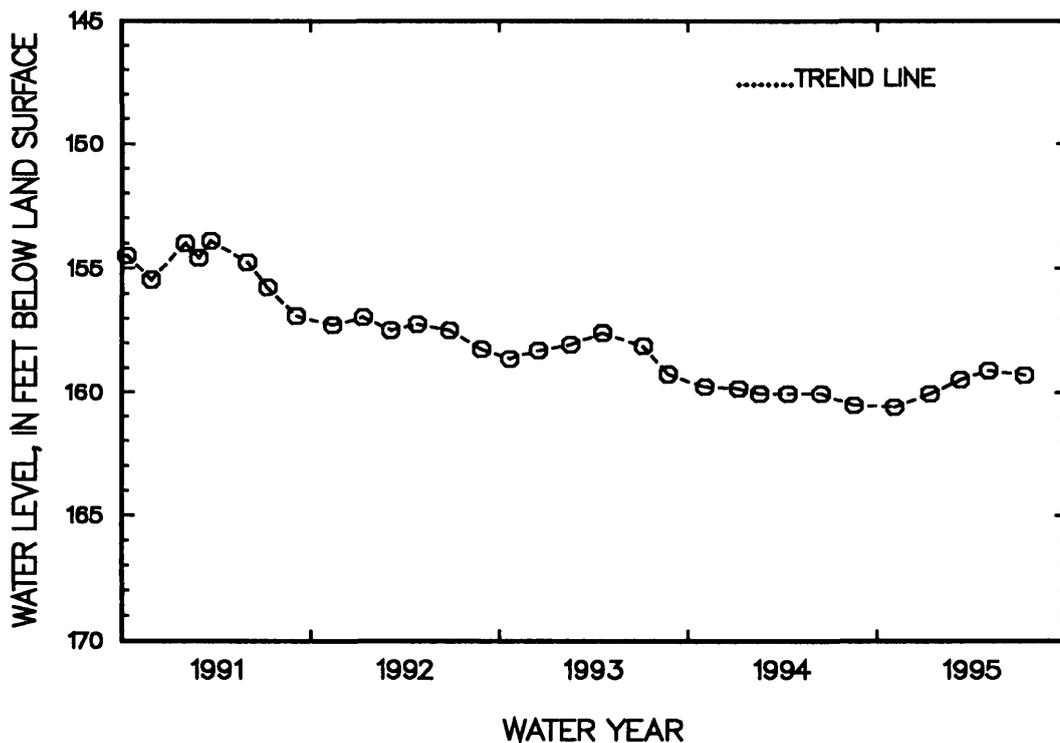
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.90 ft below land-surface datum, Apr. 24, July 24, 1980; lowest measured, 160.59 ft below land-surface datum, Nov. 3, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	160.59	JAN 11	160.05	MAR 10	159.48	MAY 03	159.10	JUL 10	159.28

WATER YEAR 1995 HIGHEST 159.10 MAY 03, 1995 LOWEST 160.59 NOV 03, 1994



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

370253076431201. Local number, 57E 14 SOW 144A.

LOCATION.--Lat 37°02'53", long 76°43'12", Hydrologic Unit 02080208, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 590 ft, diameter 3 in. from 590 to 600 ft, depth 600 ft, screened 590 to 600 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 86 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

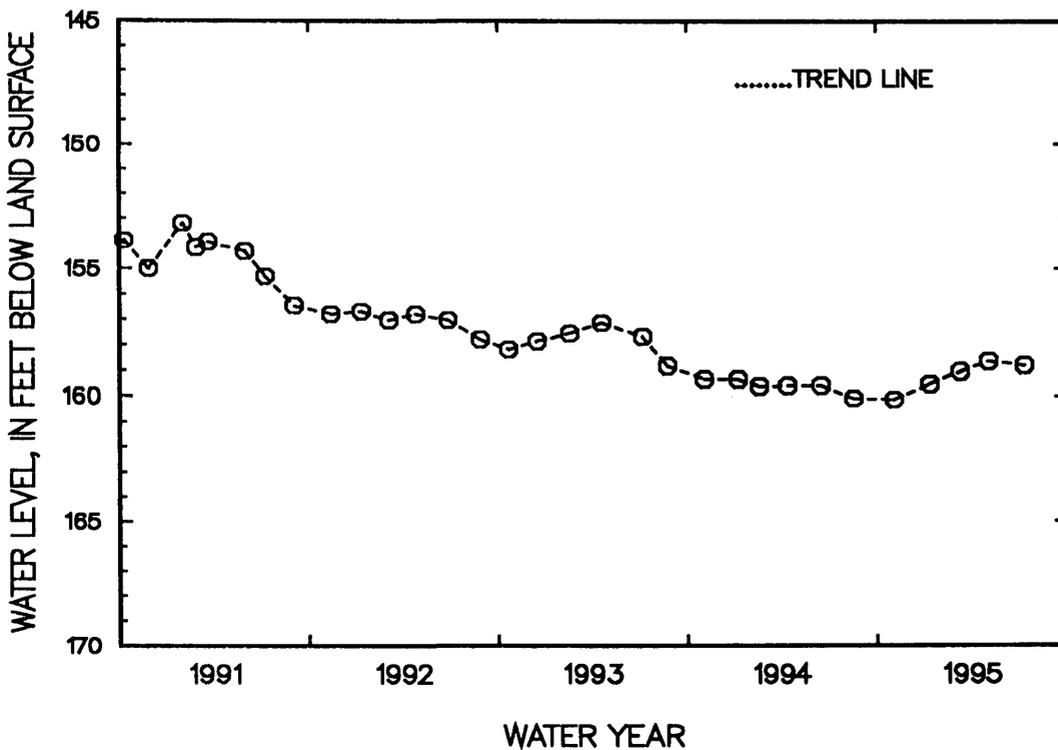
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.49 ft below land-surface datum, Apr. 24, 1980; lowest measured, 160.12 ft below land-surface datum, Nov. 3, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	160.12	JAN 11	159.51	MAR 10	159.04	MAY 03	158.65	JUL 10	158.81

WATER YEAR 1995 HIGHEST 158.65 MAY 03, 1995 LOWEST 160.12 NOV 03, 1994



ISLE OF WIGHT COUNTY

370253076431202. Local number, 57E 15 SOW 144C.

LOCATION.--Lat 37°02'53", long 76°43'12", Hydrologic Unit 02080208, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 86 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

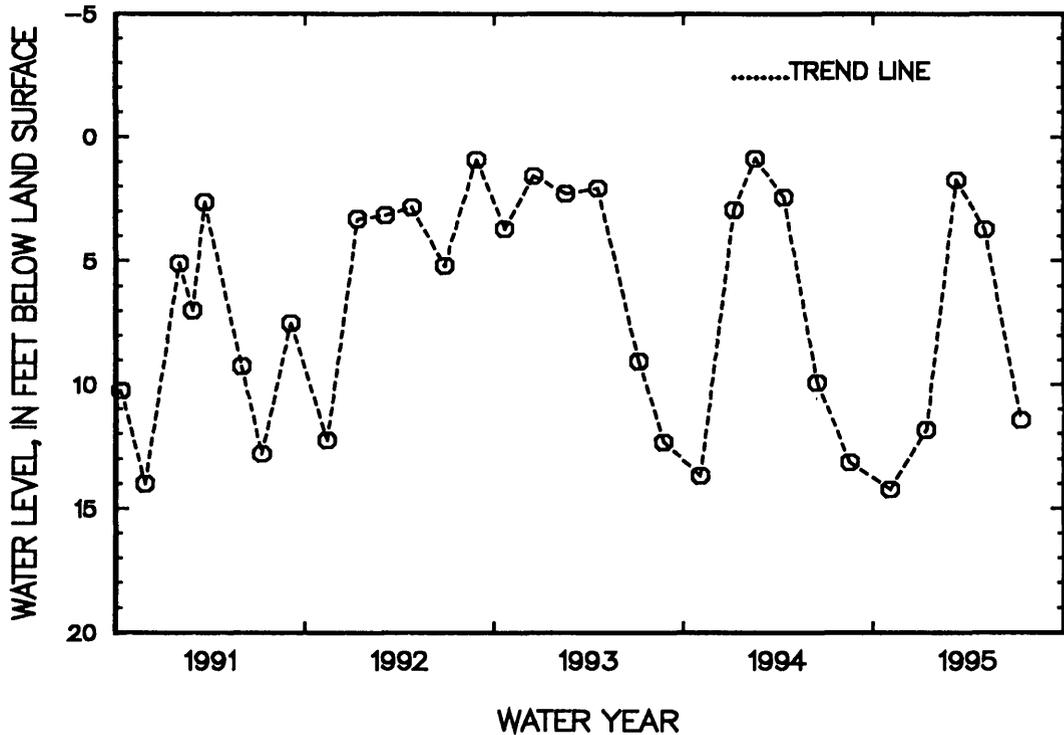
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.88 ft below land-surface datum, Feb. 17, 1994; lowest measured, 14.23 ft below land-surface datum, Nov. 3, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	14.23	JAN 11	11.83	MAR 10	1.75	MAY 03	3.72	JUL 10	11.44

WATER YEAR 1995 HIGHEST 1.75 MAR 10, 1995 LOWEST 14.23 NOV 03, 1994



JAMES CITY COUNTY

371311076463601. Local number, 56F 1 SOW 018.

LOCATION.--Lat 37°13'11", long 76°46'36", Hydrologic Unit 02080206, 1,100 ft southwest of Colonial Parkway, 0.5 mi west of State Highway 682, and 0.6 mi north of Jamestown. Owner: U.S. Department of Interior, Colonial National Historical Park.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 346 ft, screened 336 to 346 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Sept. 30, 1980, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1980, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top edge of recorder shelf, 3.15 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

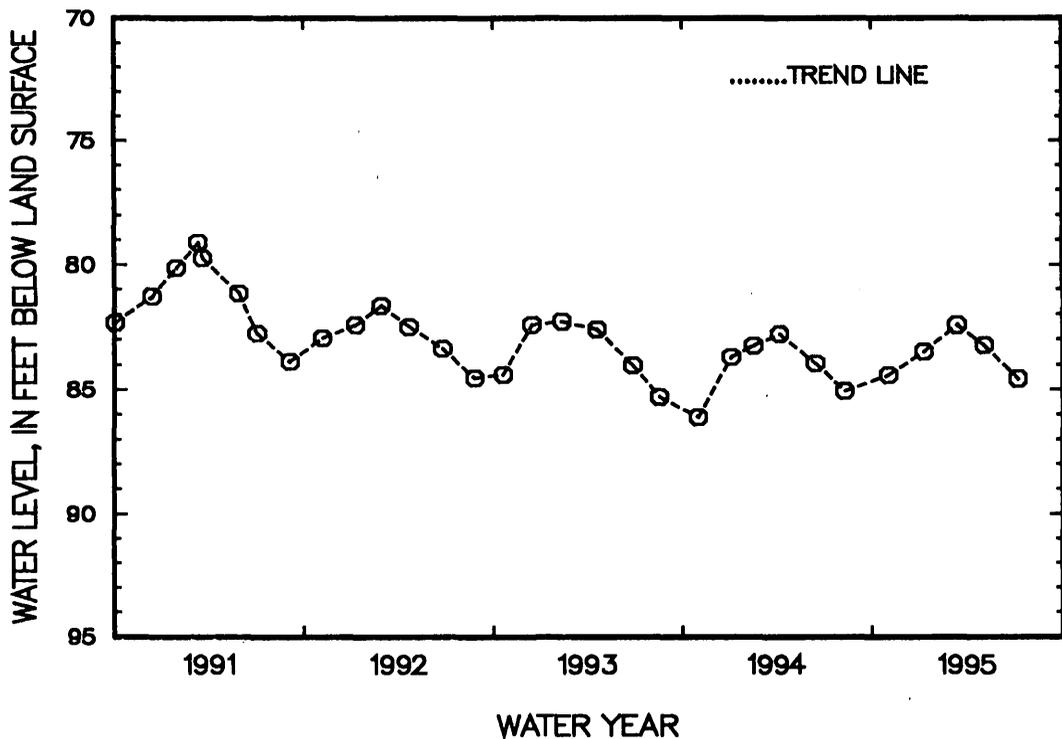
PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.29 ft below land-surface datum, May 8, 1969; lowest measured, 86.10 ft below land-surface datum, Nov. 1, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	84.43	JAN 09	83.48	MAR 13	82.43	MAY 04	83.23	JUL 07	84.58

WATER YEAR 1995 HIGHEST 82.43 MAR 13, 1995 LOWEST 84.58 JUL 07, 1995



GROUND-WATER LEVELS

JAMES CITY COUNTY

371810076473001. Local number, 56G 8.

LOCATION.--Lat 37°20'08", long 76°47'32", Hydrologic Unit 02080206, 0.55 mi east of the intersection of State Highways 611 and 614 on State Highway 611, 2.1 mi west of Lightfoot. Owner: Peninsula Boy Scout Council.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 490 ft, screened 480 to 490 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 143 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

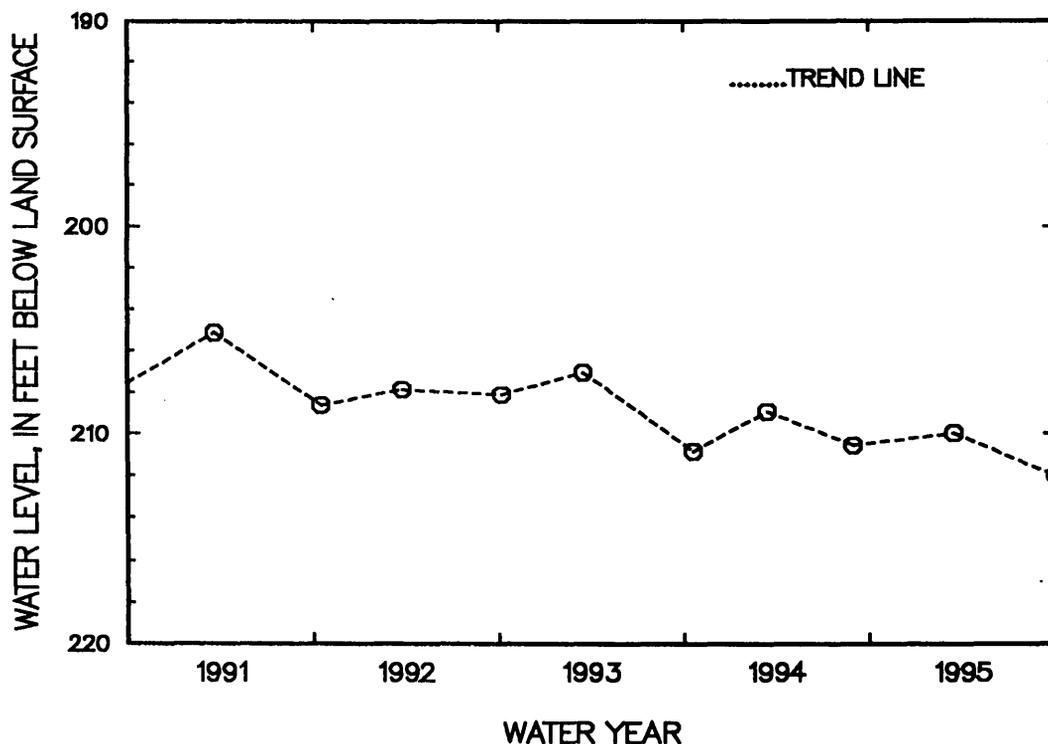
PERIOD OF RECORD.--November 1965, September 1978, January 1984 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 160.00 ft below land-surface datum, November 1965; lowest measured, 212.03 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	209.99	SEP 28	212.03

WATER YEAR 1995 HIGHEST 209.99 MAR 15, 1995 LOWEST 212.03 SEP 28, 1995



JAMES CITY COUNTY

372028076452401. Local number, 56G 38.

LOCATION.--Lat 37°20'24", long 76°45'24", Hydrologic Unit 02080206, 200 ft southwest of U.S. Highway 60 in Lightfoot, 550 ft northwest of the intersection of U.S. Highway 60 and State Highway 646. Owner: Chesapeake and Potomac Telephone Company.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 300 ft, screened 262 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 122 ft above sea level, from topographic map. Measuring point: Top of casing, 1.53 ft below land-surface datum.

REMARKS.--Water level affected by regional drawdown.

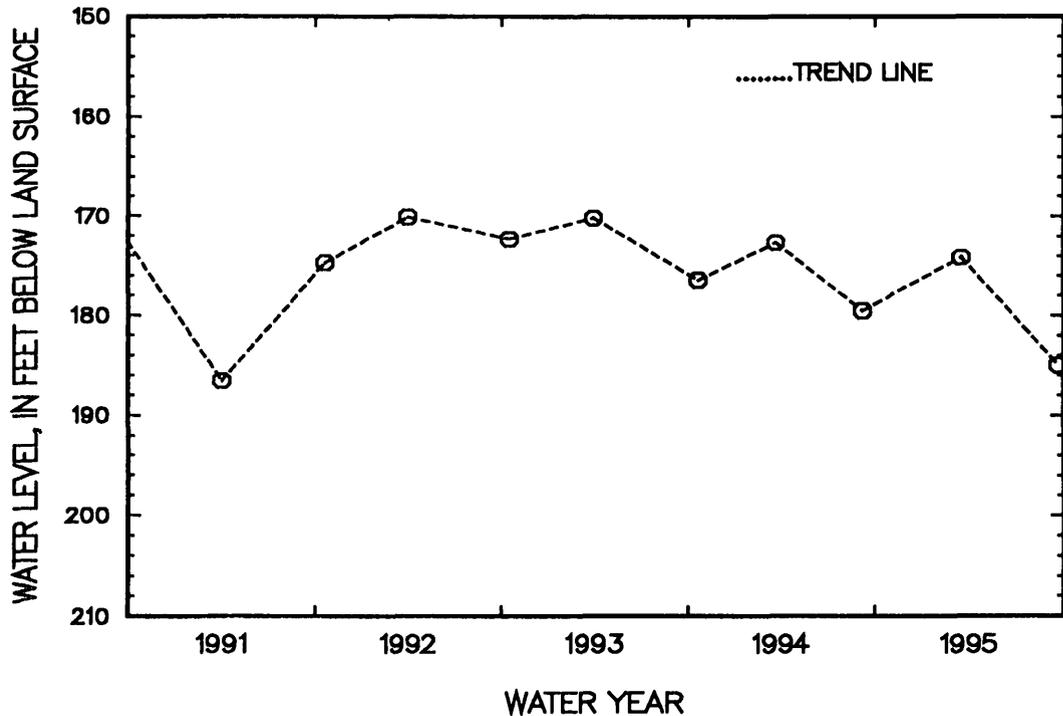
PERIOD OF RECORD.--February to September 1978, February 1984 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 137.61 ft below land-surface datum, Feb. 9, 1978; lowest measured, 186.55 ft below land-surface datum, Apr. 2, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 17	174.16	SEP 20	184.97

WATER YEAR 1995 HIGHEST 174.16 MAR 17, 1995 LOWEST 184.97 SEP 20, 1995



JAMES CITY COUNTY

372314076480401. Local number, 56H 22 SOW 135A.

LOCATION.--Lat 37°23'14", long 76°48'04", Hydrologic Unit 02080107, 100 ft south of State Highway 754, 0.2 mi east of intersection of U.S. Highway 60 and State Highway 754, and 0.5 mi north of Toano. Owner: James City Service Authority.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 2 in., depth 645 ft, screened 625 to 645 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 105 ft above sea level, from topographic map. Measuring point: Top of casing, 0.50 ft above land-surface datum prior to Mar. 3, 1988; at land-surface datum Mar. 3, 1988, to Mar. 1, 1989; 0.50 ft below land-surface datum thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional local pumpage.

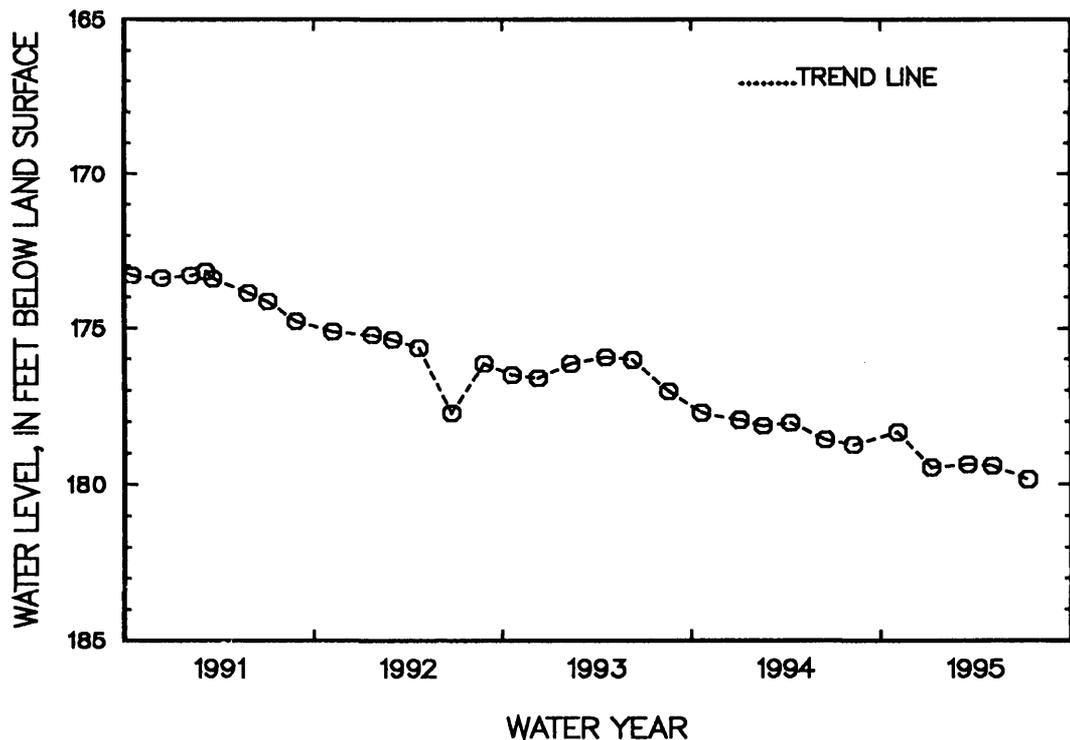
PERIOD OF RECORD.--March 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 154.85 ft below land-surface datum, Apr. 5, 1979; lowest measured, 179.84 ft below land-surface datum, July 10, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	178.34	JAN 06	179.46	MAR 17	179.36	MAY 03	179.40	JUL 10	179.84

WATER YEAR 1995 HIGHEST 178.34 NOV 03, 1994 LOWEST 179.84 JUL 10, 1995



GROUND-WATER LEVELS

JAMES CITY COUNTY

372506076511701. Local number, 56H 25 SOW 177A.

LOCATION.--Lat 37°25'06", long 76°51'17", Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 929 ft, screened 888 to 908 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 20, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above sea level, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

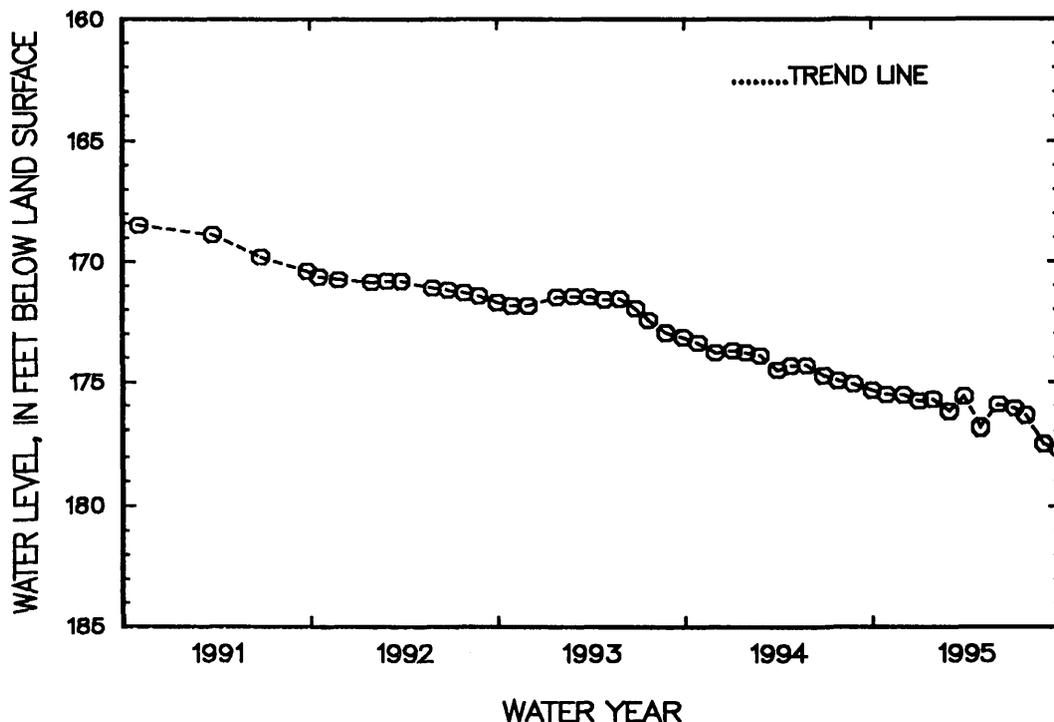
PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 158.21 ft below land-surface datum, Mar. 19, 20, 1986; lowest measured, 177.73 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	175.54	DEC 30	175.81	FEB 27	176.23	APR 28	176.85	JUL 03	176.11	AUG 28	177.47
NOV 30	175.55	JAN 26	175.74	MAR 27	175.61	JUN 01	175.95	24	176.39	SEP 28	177.73

WATER YEAR 1995 HIGHEST 175.54 OCT 28, 1994 LOWEST 177.73 SEP 28, 1995



GROUND-WATER LEVELS

JAMES CITY COUNTY

372506076511703: Local number, 56H 27 SOW 177C.

LOCATION.--Lat 37°25'06", long 76°51'17", Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 401 ft, screened 370 to 380 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel. Prior to Aug. 26, 1993, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above sea level, from topographic map. Measuring point: Top of casing, 2.95 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

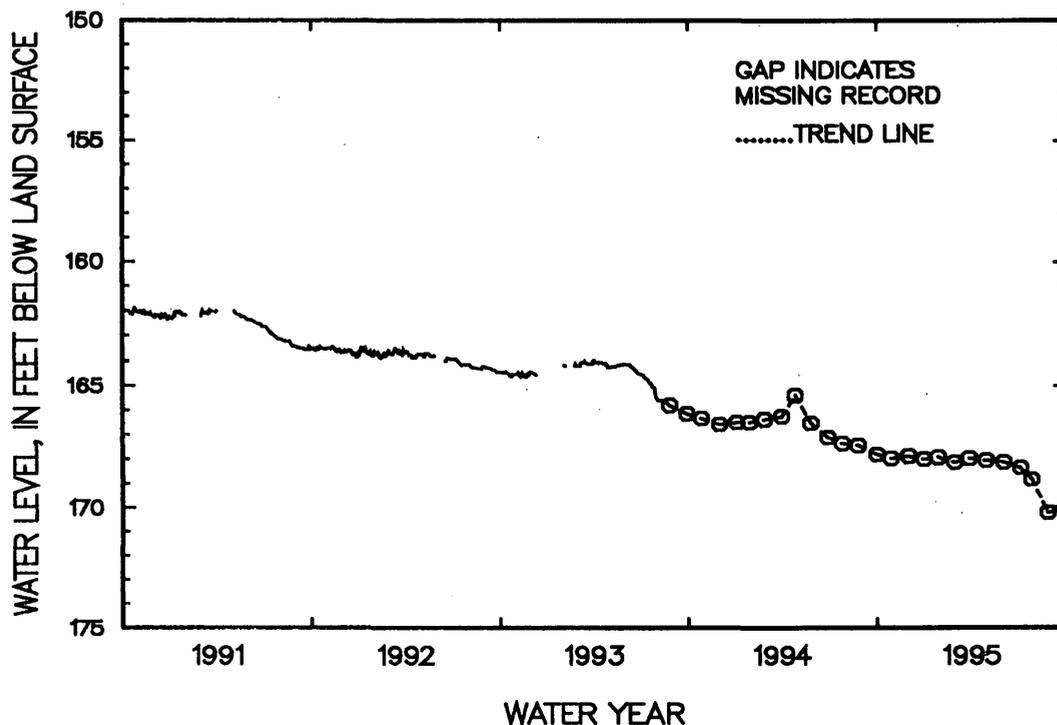
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 153.47 ft below land-surface datum, June 1, 2, 1985; lowest measured, 170.21 ft below land-surface datum, Aug. 24, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	167.97	DEC 30	168.00	FEB 27	168.13	APR 28	168.05	JUL 03	168.35	AUG 24	170.21
NOV 30	167.88	JAN 26	167.93	MAR 27	167.97	JUN 01	168.13	24	168.84	SEP 28	170.06

WATER YEAR 1995 HIGHEST MEASURED 167.88 NOV 30, 1994 LOWEST MEASURED 170.21 AUG 24, 1995

DAILY LOW-WATER LEVELS



JAMES CITY COUNTY

372506076511704. Local number, 56H 28 SOW 177D.

LOCATION.--Lat 37°25'06", long 76°51'17", Hydrologic Unit 02080206, 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168, 0.7 mi north of the intersection of State Highways 168 and 601, and on the northwest side of State Highway 601 in James City County. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 321 ft, screened 290 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Sept. 16, 1989, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 193 ft above sea level, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum prior to Dec. 4, 1989; 0.9 ft thereafter.

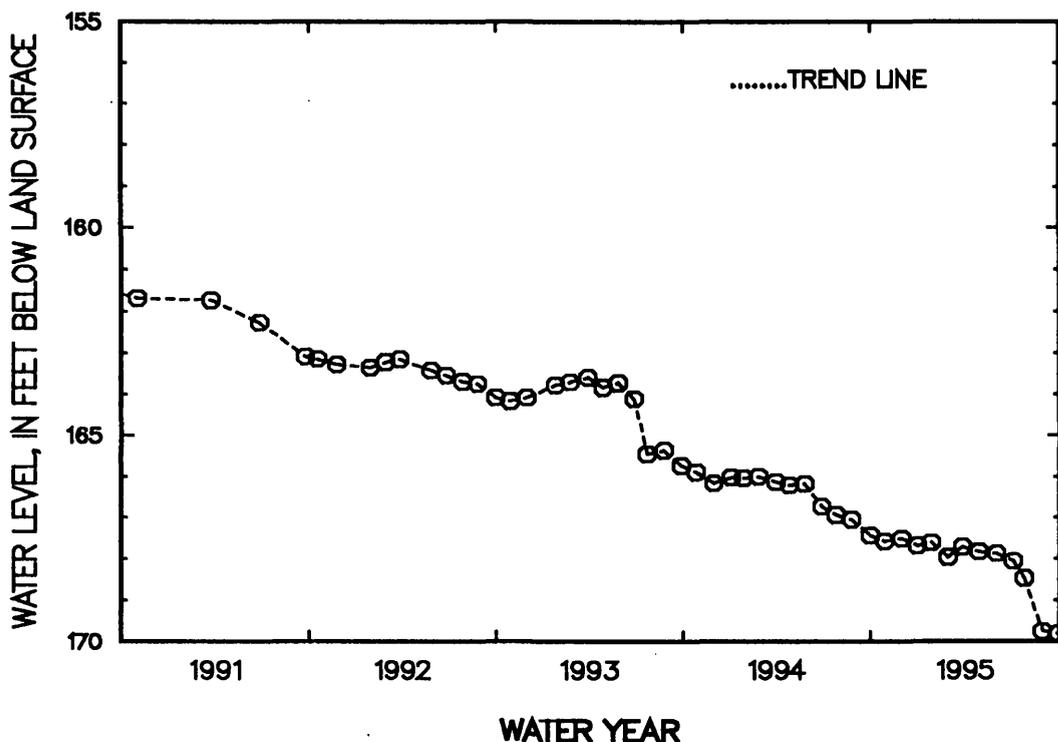
PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 153.20 ft below land-surface datum, May 31, 1985; lowest measured, 169.81 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	167.57	DEC 30	167.68	FEB 27	167.96	APR 28	167.83	JUL 03	168.06	AUG 28	169.75
NOV 30	167.51	JAN 26	167.60	MAR 27	167.71	JUN 01	167.88	24	168.48	SEP 28	169.81

WATER YEAR 1995 HIGHEST 167.51 NOV 30, 1994 LOWEST 169.81 SEP 28, 1995



GROUND-WATER LEVELS

JAMES CITY COUNTY

372506076511705. Local number, 56H 29 SOW 177E.

LOCATION.--Lat 37°25'06", long 76°51'17", Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 235 ft, screened 204 to 214 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Sept. 21, 1989, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above sea level, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum prior to Dec. 4, 1989; 0.75 ft thereafter.

REMARKS.--Water level affected by regional drawdown.

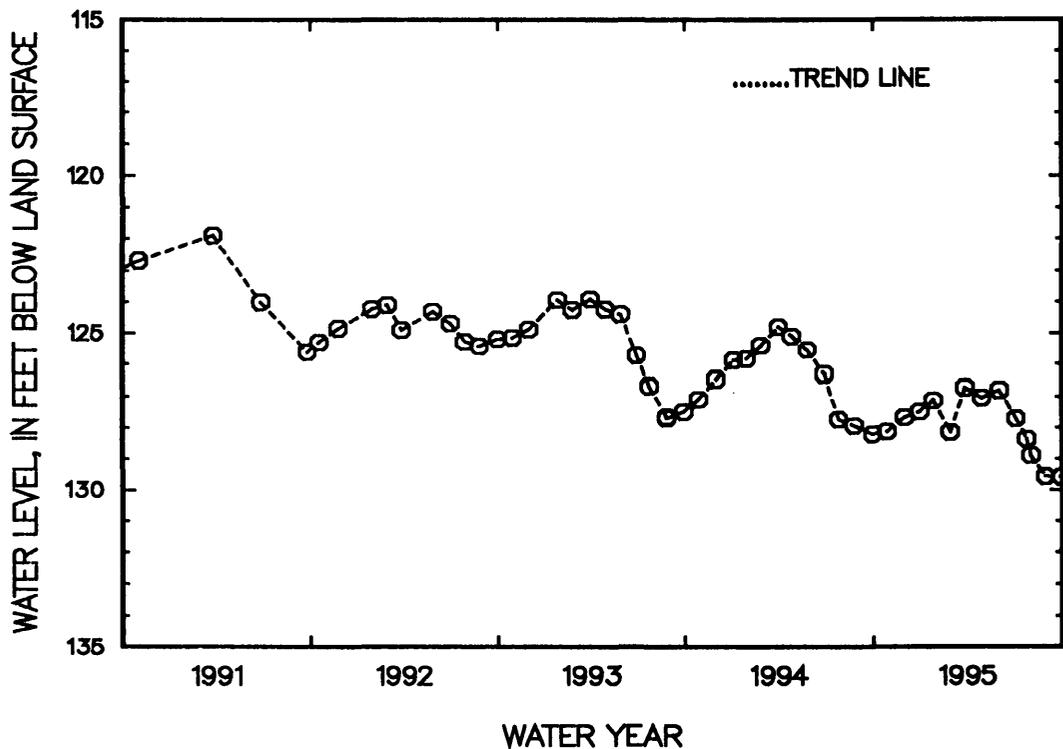
PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 111.96 ft below land-surface datum, Feb. 27, 1986; lowest measured, 129.60 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	128.12	JAN 25	127.11	MAR 27	126.72	JUN 01	126.80	JUL 24	128.37	AUG 28	129.58
NOV 30	127.67	FEB 27	128.14	APR 28	127.03	JUL 03	127.70	AUG 01	128.90	SEP 28	129.60
DEC 30	127.47										

WATER YEAR 1995 HIGHEST 126.72 MAR 27, 1995 LOWEST 129.60 SEP 28, 1995



JAMES CITY COUNTY

372506076511706. Local number, 56H 30 SOW 177F.

LOCATION.--Lat 37°25'06", long 76°51'17", Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Sept. 20, 1989, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above sea level, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum prior to Dec. 4, 1989; 1.1 ft thereafter.

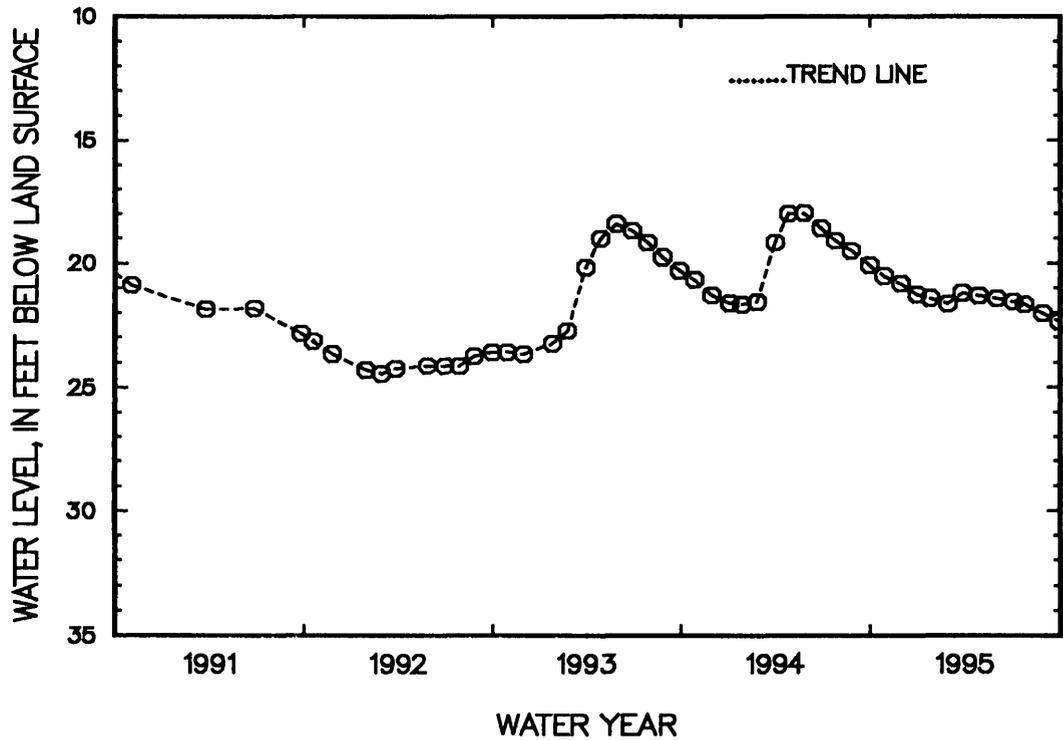
PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 17.25 ft below land-surface datum, June 8, 9, 12, 13, 1987; lowest measured, 24.45 ft below land-surface datum, Feb. 28, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	20.52	DEC 30	21.46	FEB 27	21.63	APR 28	21.31	JUL 03	21.56	AUG 28	22.02
NOV 30	20.83	JAN 25	21.41	MAR 27	21.20	JUN 01	21.42	24	21.66	SEP 28	22.35

WATER YEAR 1995 HIGHEST 20.52 OCT 28, 1994 LOWEST 22.35 SEP 28, 1995



GROUND-WATER LEVELS

JAMES CITY COUNTY

372314076480402. Local number, 56H 31 SOW 135B.

LOCATION.--Lat 37°23'14", long 76°48'04", Hydrologic Unit 02080107, 100 ft south of State Highway 754, 0.2 mi east of intersection of State Highway 754 and U.S. Highway 60, and 0.5 mi north of Toano. Owner: James City Service Authority.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 30 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above sea level, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 3, 1988; at land-surface datum Mar. 3, 1988, to Mar. 1, 1989; 0.2 ft below land-surface datum thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

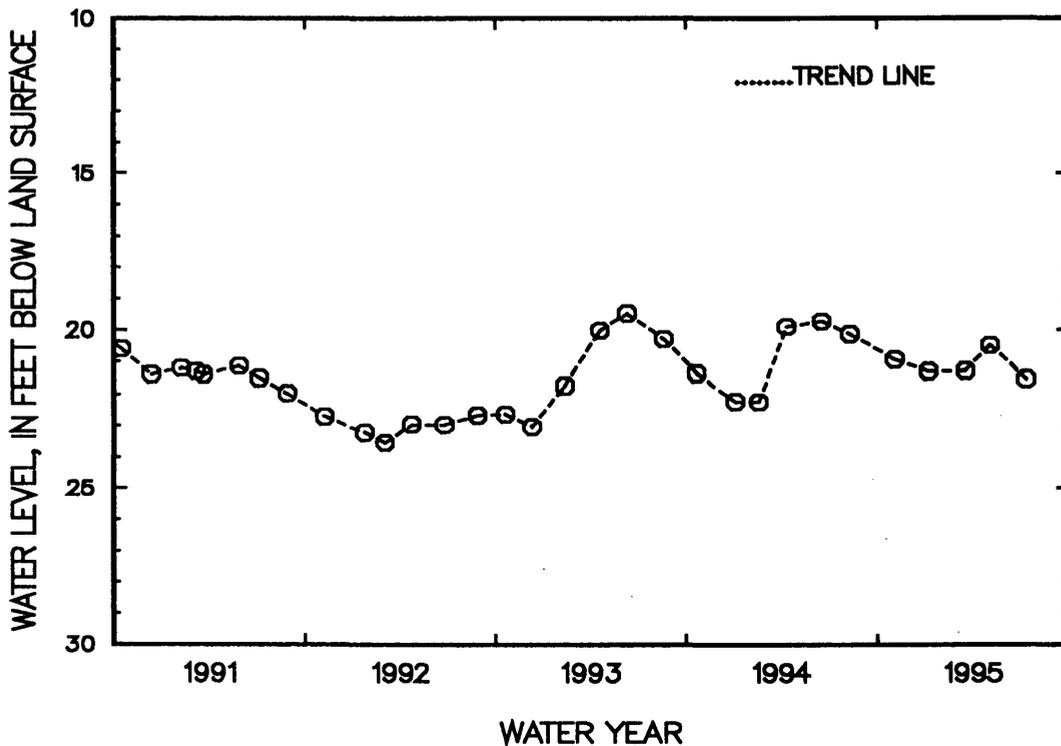
PERIOD OF RECORD.--August 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.28 ft below land-surface datum, June 8, 1984; lowest measured, 23.80 ft below land-surface datum, Mar. 1, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	20.94	JAN 06	21.30	MAR 17	21.29	MAY 03	20.50	JUL 10	21.54

WATER YEAR 1995 HIGHEST 20.50 MAY 03, 1995 LOWEST 21.54 JUL 10, 1995



JAMES CITY COUNTY

372315076415001. Local number 57H 14 SOW 095.

LOCATION.--Lat 37°23'15", long 76°41'50", Hydrologic Unit 02080107, 500 ft north of State Highway 606, 0.8 mi east of intersection of State Highway 606 and 646, and 3.3 mi east of Croaker. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 123 ft, screened 118 to 123 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Mar. 3, 1988; 1.4 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

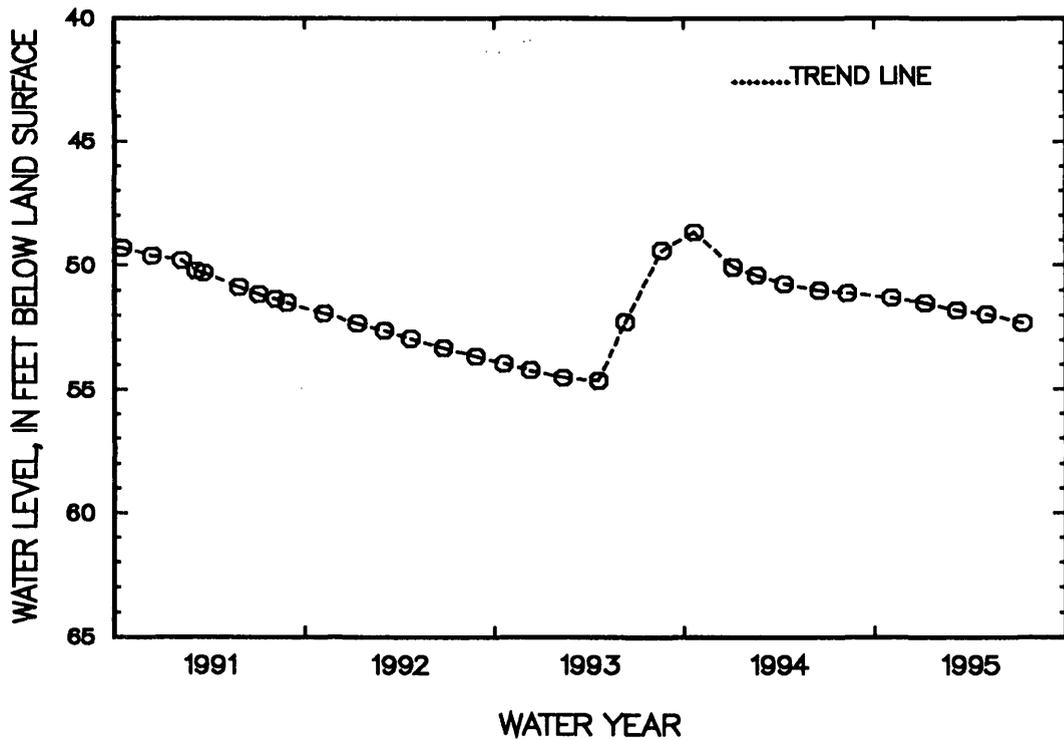
PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.00 ft below land-surface datum, Sept. 21, 1978; lowest measured, 54.64 ft below land-surface datum, Apr. 19, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	51.30	JAN 06	51.52	MAR 08	51.80	MAY 03	51.96	JUL 10	52.31

WATER YEAR 1995 HIGHEST 51.30 NOV 03, 1994 LOWEST 52.31 JUL 10, 1995



GROUND-WATER LEVELS

KING AND QUEEN COUNTY

374328077012801. Local number, 54K 6 SOW 064.

LOCATION.--Lat 37°43'28", long 77°01'28", Hydrologic Unit 02080105, 100 ft west of State Highway 629, 0.2 mi southeast of Walkerton, and 0.25 mi south of intersection of State Highways 629 and 634. Owner: C. L. Walker.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 66 ft, diameter 4 in. from 66 to 390 ft, depth 390 ft, screened 341 to 372 ft, 376 to 387 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Apr. 30, 1979, to Oct. 2, 1985, occasional measurement with chalked tape. Jan. 5, 1974, to Apr. 30, 1979, continuous strip-chart recorder. Prior to Jan. 5, 1974, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 2.17 ft above land-surface datum prior to Nov. 18, 1985; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

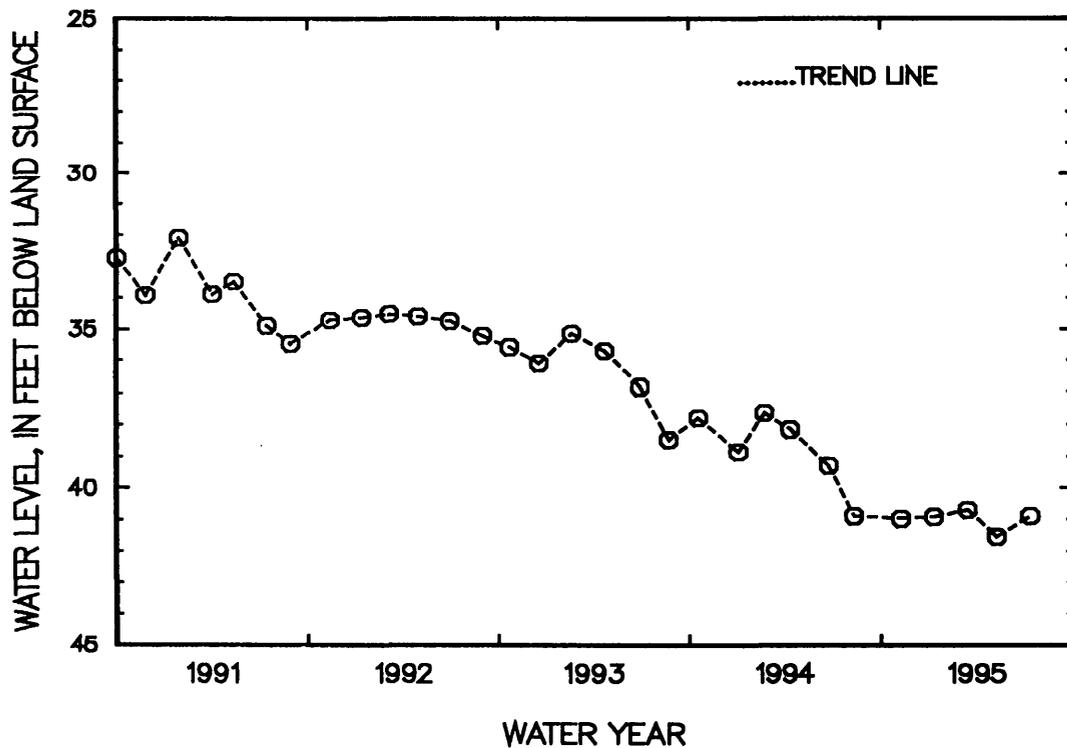
PERIOD OF RECORD.--August 1972 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.82 ft below land-surface datum, Aug. 1, 1972; lowest measured, 41.54 ft below land-surface datum, May 9, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	40.97	JAN 10	40.92	MAR 15	40.70	MAY 09	41.54	JUL 11	40.90

WATER YEAR 1995 HIGHEST 40.70 MAR 15, 1995 LOWEST 41.54 MAY 09, 1995



KING AND QUEEN COUNTY

374806077034801. Local number, 54L 5.

LOCATION.--Lat 37°48'06", long 77°03'48", Hydrologic Unit 02080105, 75 ft west of U.S. Highway 360 at St. Stephens Church and 0.4 mi southwest of the intersection of U.S. Highway 360 and State Highway 14. Owner: Nick Stolfi.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 252 ft, diameter 2 in. from 252 to 546 ft, depth 546 ft, screened 515 to 525 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 160 ft above sea level, from topographic map. Measuring point: Top of 0.5 in. nipple, 5.05 ft below land-surface datum. Prior to Mar. 20, 1985, measuring point was top of casing, 5.5 ft below land-surface datum.

REMARKS.--Water level affected by regional drawdown.

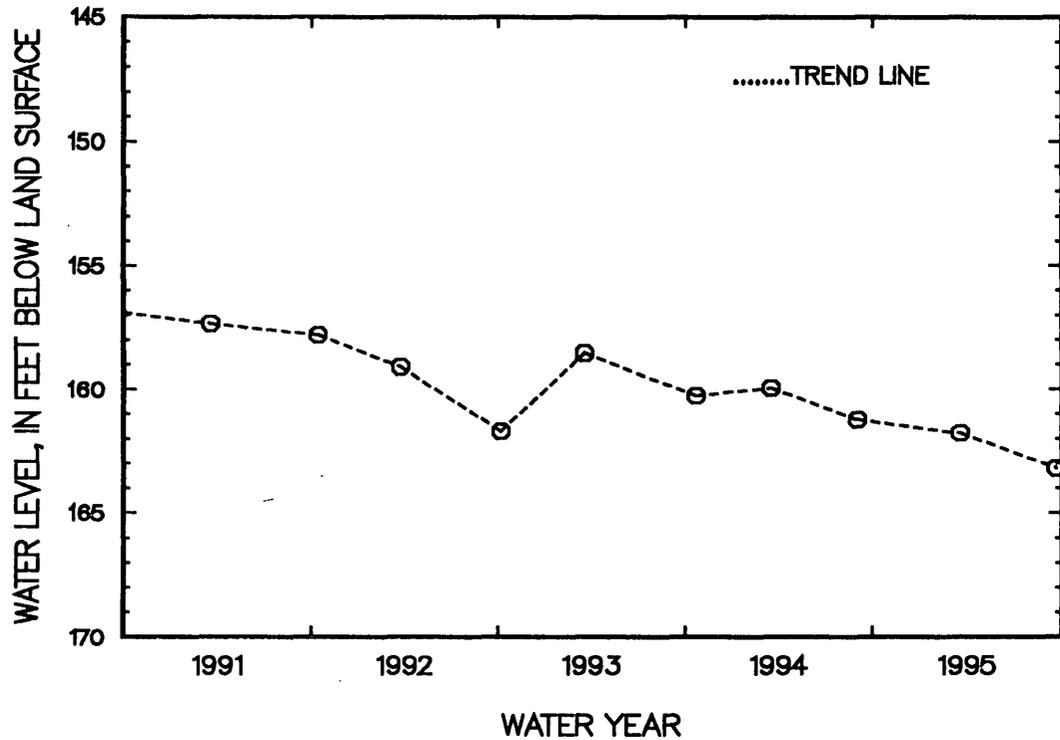
PERIOD OF RECORD.--June 1969 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.00 ft below land-surface datum, June 8, 1970; lowest measured, 163.20 ft below land-surface datum, Sept. 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	161.77	SEP 19	163.20

WATER YEAR 1995 HIGHEST 161.77 MAR 20, 1995 LOWEST 163.20 SEP 19, 1995



GROUND-WATER LEVELS

KING AND QUEEN COUNTY

373126076454101. Local number, 56J 11 SOW 073.

LOCATION.--Lat 37°31'26", long 76°45'41", Hydrologic Unit 02080105, at West Point Airport, 1.7 mi southeast of West Point. Owner: Chesapeake Corporation.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 1,254 ft, screened 1,233 to 1,248 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

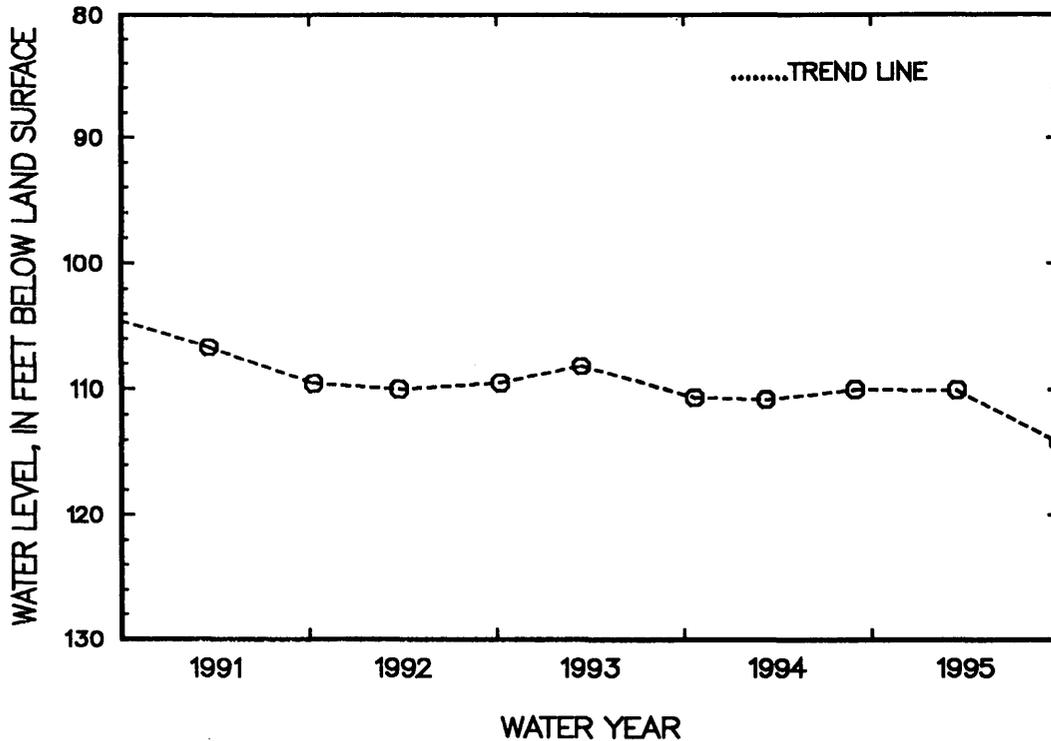
PERIOD OF RECORD.--November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.08 ft below land-surface datum, Apr. 25, 1975; lowest measured, 114.27 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	110.02	SEP 28	114.27

WATER YEAR 1995 HIGHEST 110.02 MAR 15, 1995 LOWEST 114.27 SEP 28, 1995



KING AND QUEEN COUNTY

373008076425601. Local number, 57J 3 SOW 074.

LOCATION.--Lat 37°30'08", long 76°42'56", Hydrologic Unit 02080107, off State Highway 606, 0.4 mi northeast of intersection of State Highways 606 and 605, and 2.8 mi south of Shackelfords. Owner: Chesapeake Corporation.

AQUIFER.--Aqua aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 200 ft, diameter 4 in. from 200 to 760 ft, depth 760 ft, screened 741 to 756 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 51 ft above sea level, from topographic map. Measuring point: Top of casing, 0.20 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

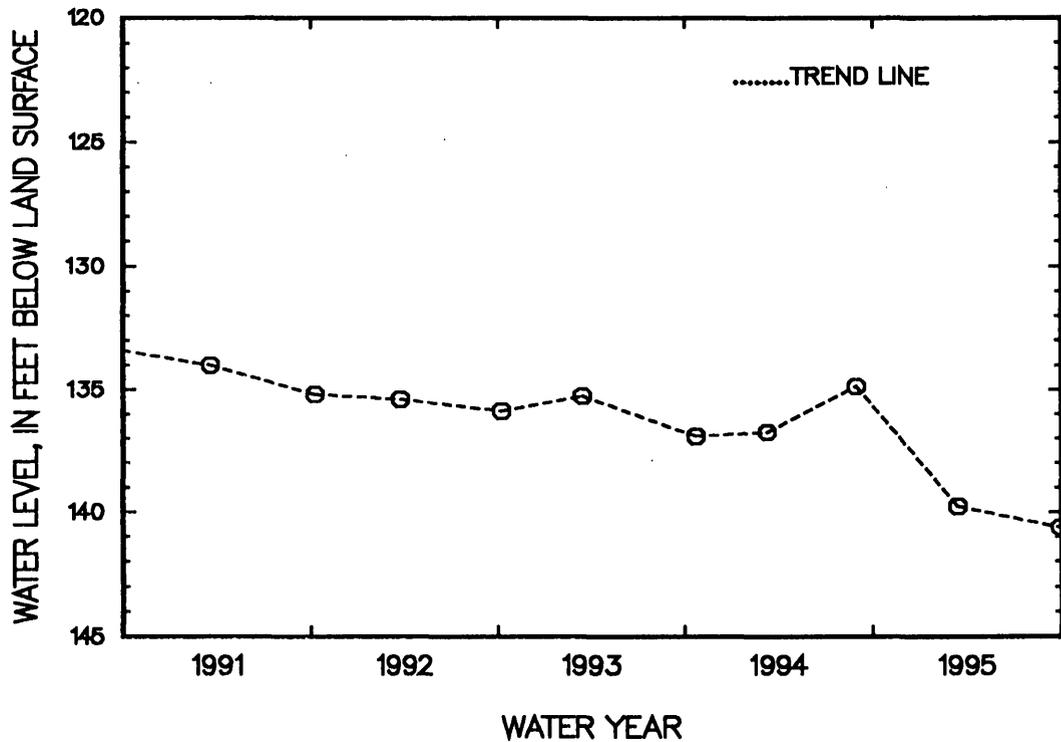
PERIOD OF RECORD.--November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.90 ft below land-surface datum, Jan. 26, 1975; lowest measured, 140.63 ft below land-surface datum, Sept. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	139.77	SEP 28	140.63

WATER YEAR 1995 HIGHEST 139.77 MAR 15, 1995 LOWEST 140.63 SEP 28, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382103077025401. Local number, 54Q 19.

LOCATION.--Lat 38°21'03", long 77°02'54", Hydrologic Unit 02070011, 100 ft southwest of intersection of Bennion Road and Perimeter Road, 100 ft east of Perimeter Road at edge of woods, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 30 ft, diameter 4 in. from 0 to 180 ft, 200 to 202.25 ft, depth 202.25 ft, screened 180 to 200 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 21.6 ft above sea level. Measuring point: Top of recorder shelf, 2.5 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.1 ft thereafter.

REMARKS.--Low-water levels in May 1993 are the result of the well being pumped for water-quality sampling.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 23.67 ft below land-surface datum, Jan. 17, 1993; lowest measured from natural causes, 27.10 ft below land-surface datum, Sept. 26, 1995; lowest recorded, 27.64 ft below land-surface datum, May 27, 28, 1993, result of pumpage.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

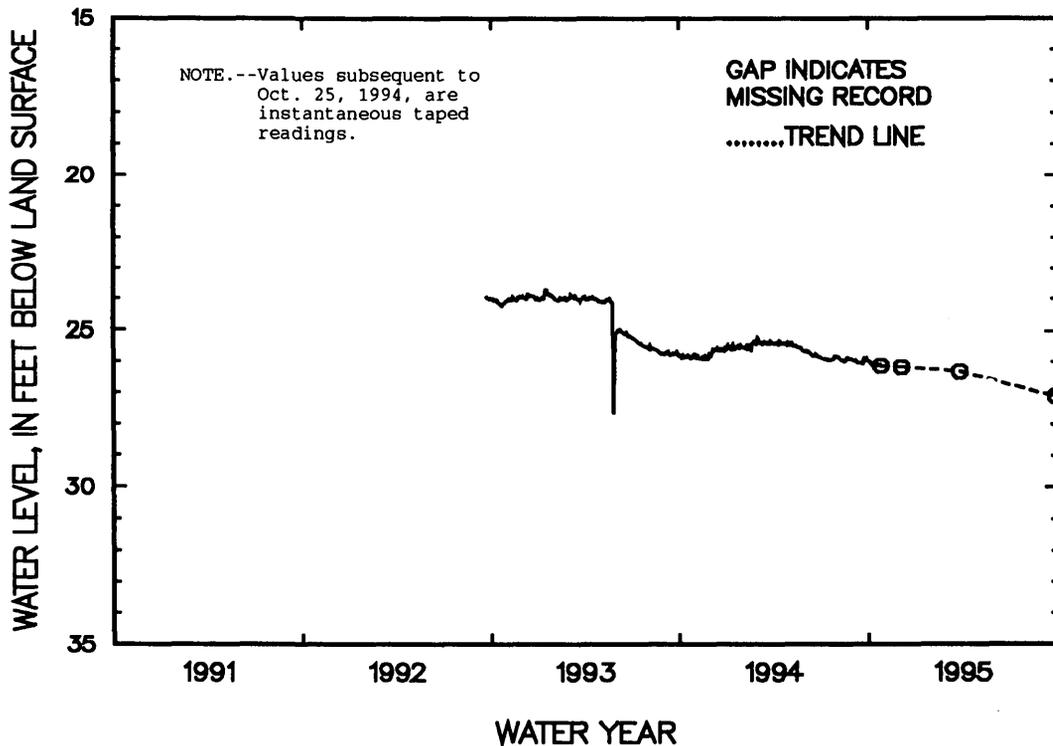
DAY	OCT
5	26.01
10	26.08
15	26.12
20	26.09
25	26.09

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	26.14	DEC 05	26.17	MAR 27	26.32	SEP 26	27.10

WATER YEAR 1995 HIGHEST RECORDED 25.95 OCT 01, 02, 1994 LOWEST MEASURED 27.10 SEP 26, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

382103077025402. Local number, 54Q 20.

LOCATION.--Lat 38°21'03", long 77°02'54", Hydrologic Unit 02070011, 100 ft southwest of intersection of Bennion Road and Perimeter Road, 100 ft east of Perimeter Road at edge of woods, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Confined aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 30 ft, diameter 4 in. from 0 to 85 ft, 95 to 97.25 ft, depth 97.25 ft, screened 85 to 95 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 21.59 ft above sea level. Measuring point: Top of recorder shelf, 2.5 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.09 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.82 ft below land-surface datum, May 19, 1993; lowest recorded, 17.15 ft below land-surface datum, Nov. 23, 24, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

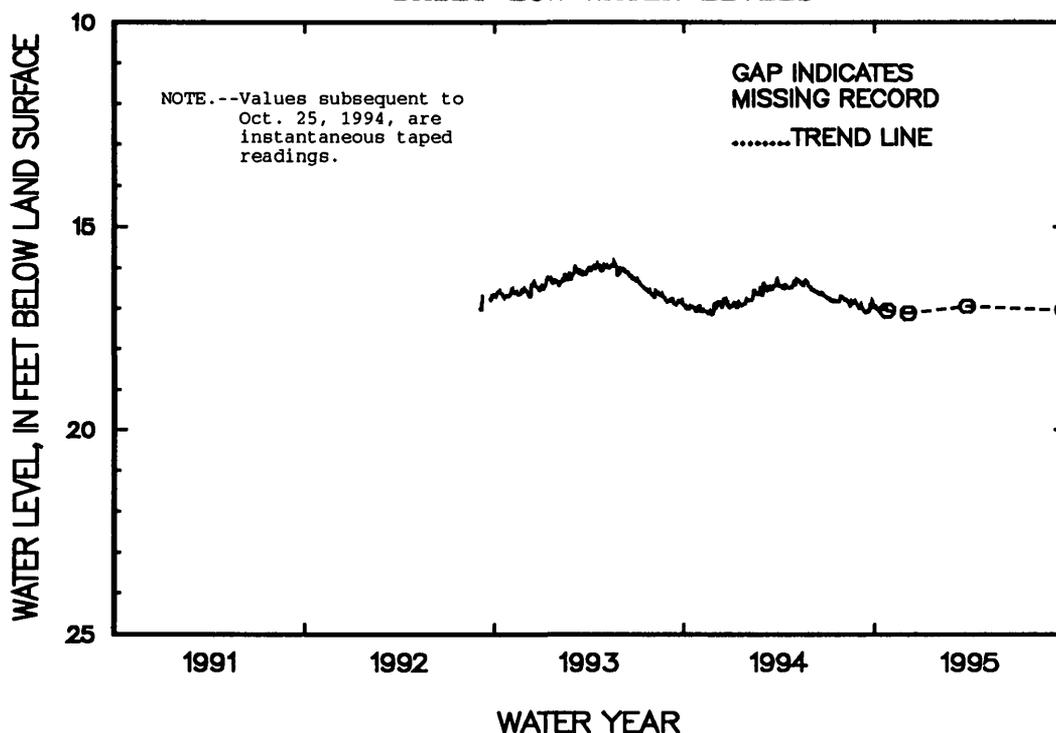
DAY	OCT
5	17.00
10	17.06
15	17.01
20	17.00
25	17.02

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	17.05	DEC 05	17.11	MAR 27	16.95	SEP 26	17.04

WATER YEAR 1995 HIGHEST RECORDED 16.94 OCT 03, 04, 1994 LOWEST MEASURED 17.11 DEC 05, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382129077005801. Local number, 54Q 21.

LOCATION.--Lat 38°21'29", long 77°00'58", Hydrologic Unit 02070011, 200 ft west of the Potomac River, 400 ft south of U.S. Highway 301, 750 ft east of Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 25 ft, diameter 4 in. from 0 to 197 ft, 217 to 219.25 ft, depth 219.25 ft, screened 197 to 217 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 20.46 ft above sea level. Measuring point: Top of recorder shelf, 2.65 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.10 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 29.00 ft below land-surface datum, Mar. 4, 1993; lowest recorded, 32.59 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

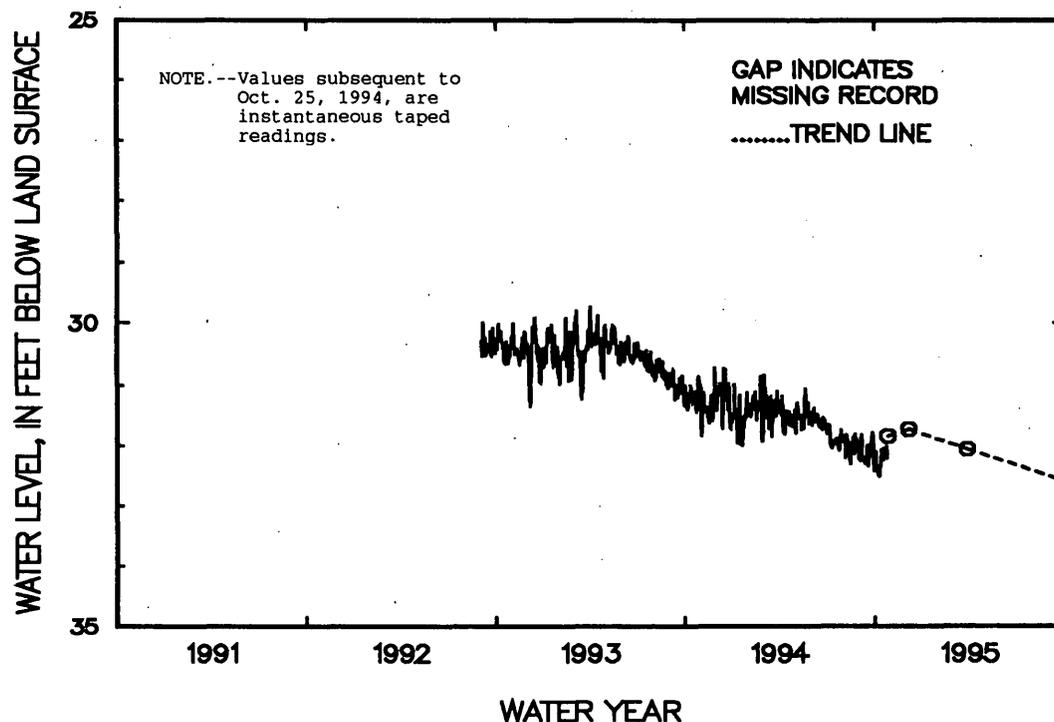
DAY	OCT
5	32.40
10	32.53
15	32.08
20	31.12
25	32.09

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	31.84	DEC 05	31.73	MAR 27	32.06	SEP 26	32.59

WATER YEAR 1995 HIGHEST RECORDED 31.59 OCT 19, 1994 LOWEST MEASURED 32.59 SEP 26, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

382129077005802. Local number, 54Q 22.

LOCATION.--Lat 38°21'29", long 77°00'58", Hydrologic Unit 02070011, 200 ft west of the Potomac River, 400 ft south of U.S. Highway 301, 750 ft east of Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Confined aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 20 ft, diameter 4 in. from 0 to 46 ft, 56 to 58.25 ft, depth 58.25 ft, screened 46 to 56 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 20.52 ft above sea level. Measuring point: Top of recorder shelf, 2.6 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 1.98 ft thereafter.

REMARKS.--Low-water levels in May 1993 are the result of the well being pumped for water-quality sampling.

Low-water levels in March 1993 are a result of the well being bail-tested.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.71 ft below land-surface datum, Apr. 17, 1993; lowest recorded, 17.52 ft below land-surface datum, May 26, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

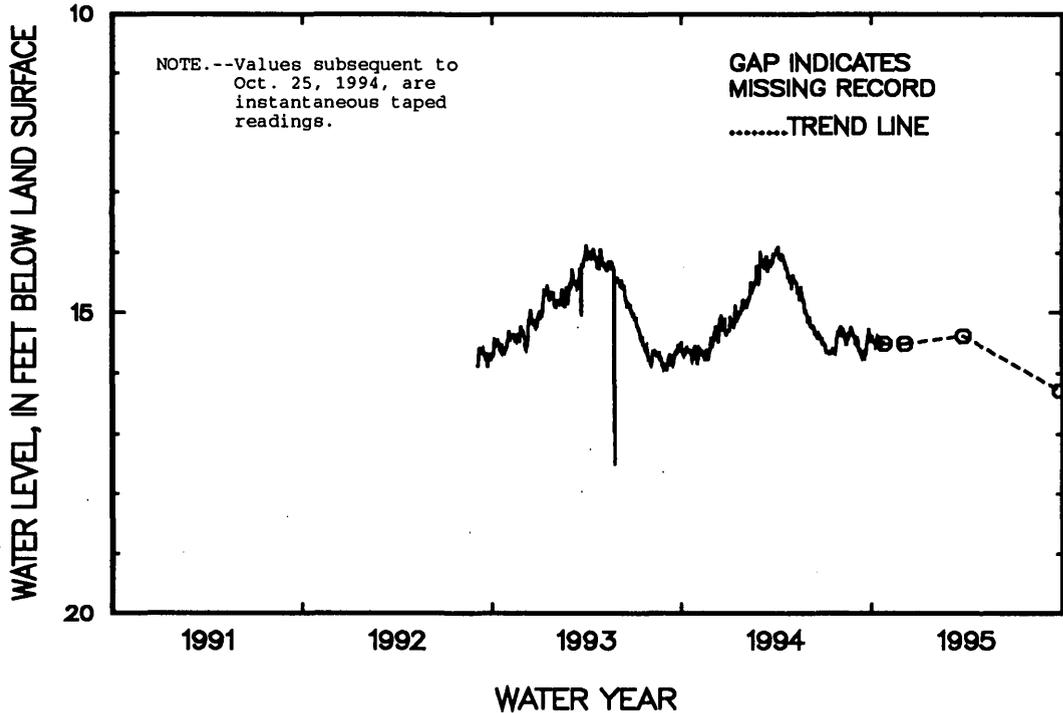
DAY	OCT
5	15.47
10	15.57
15	15.43
20	15.49
25	15.48

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	15.51	DEC 05	15.51	MAR 27	15.38	SEP 26	16.29

WATER YEAR 1995 HIGHEST RECORDED 15.19 OCT 03, 1994 LOWEST MEASURED 16.29 SEP 26, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

381915077020301. Local number, 54Q 23.

LOCATION.--Lat 38°19'15", long 77°02'03", Hydrologic Unit 02070011, 100 ft south of Tisdale Road, 200 ft east of security gate at intersection of Tisdale Road and Welch Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 30 ft, diameter 4 in. from 0 to 192.40 ft, 212.40 to 214.70 ft, depth 214.70 ft, screened 192.40 to 212.40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 10.70 ft above sea level. Measuring point: Top of recorder shelf, 2.6 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.17 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 22.31 ft below land-surface datum, Dec. 11, 1992; lowest recorded, 24.31 ft below land-surface datum, Nov. 2, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

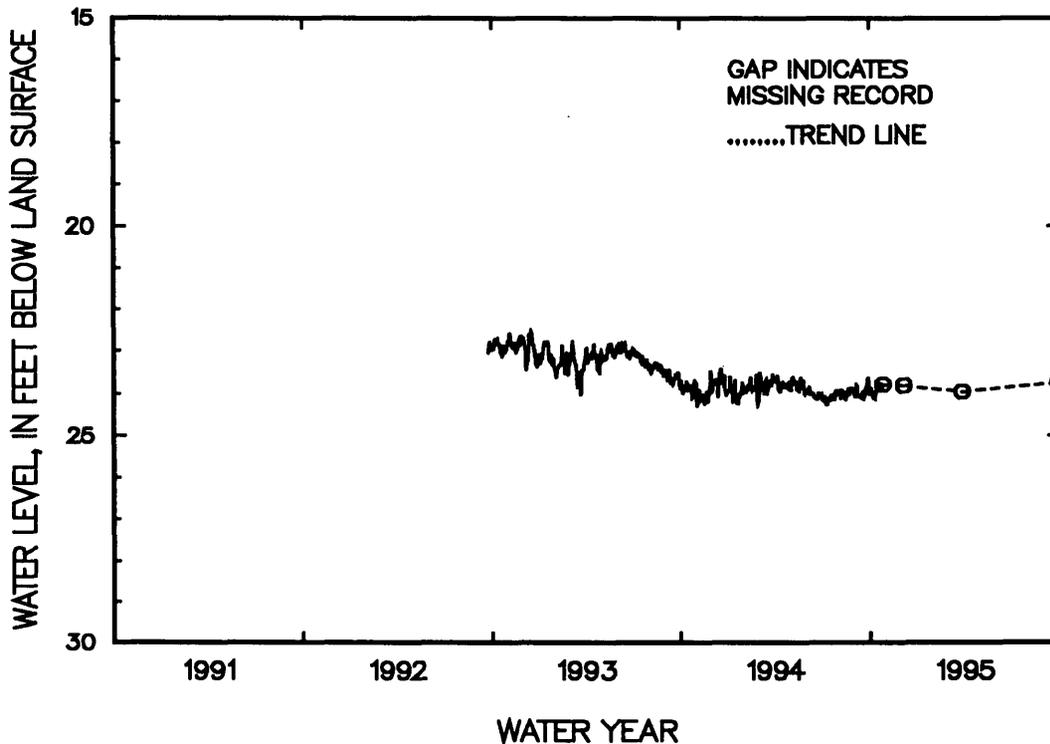
DAY	OCT
5	24.01
10	24.11
15	23.79
20	23.78
25	23.82

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	23.78	DEC 05	23.80	MAR 27	23.95	SEP 26	23.73

WATER YEAR 1995 HIGHEST RECORDED 23.42 OCT 19, 1994 LOWEST RECORDED 24.12 OCT 11, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

381915077020302. Local number, 54Q 24.

LOCATION.--Lat 38°19'15", long 77°02'03", Hydrologic Unit 02070011, 100 ft south of Tisdale Road, 200 ft east of security gate at intersection of Tisdale Road and Welch Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Confined aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 15 ft, diameter 4 in. from 0 to 61.80 ft, 71.80 to 74.20 ft, depth 74.20 ft, screened 61.80 to 71.80 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 10.70 ft above sea level. Measuring point: Top of recorder shelf, 2.6 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.35 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.79 ft below land-surface datum, Mar. 4, 1993; lowest recorded, 9.41 ft below land-surface datum, Dec. 6, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

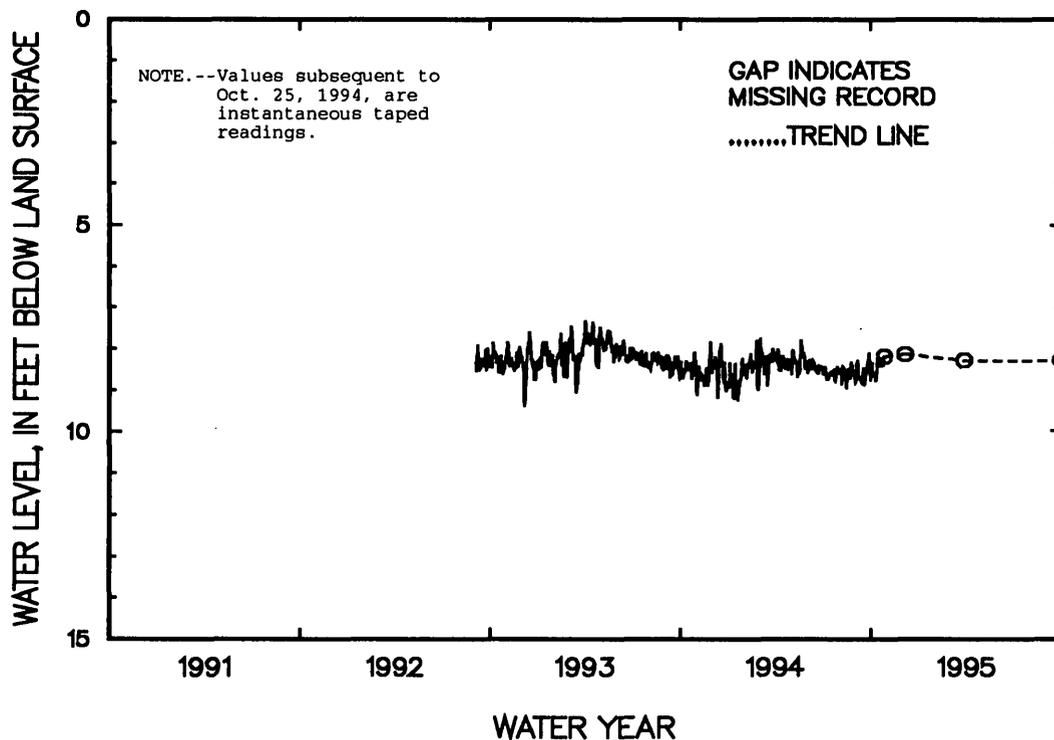
DAY	OCT
5	8.65
10	8.80
15	8.27
20	8.34
25	8.30

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	8.20	DEC 05	8.14	MAR 27	8.29	SEP 26	8.29

WATER YEAR 1995 HIGHEST RECORDED 7.66 OCT 16, 1994 LOWEST RECORDED 8.80 OCT 10, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382017077030401. Local number, 54Q 25.

LOCATION.--Lat 38°20'17", long 77°03'04", Hydrologic Unit 02070011, 60 ft east of Perimeter Road, 0.9 mi south of intersection of Bennion Road and Perimeter Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 5 ft, 10 to 12.5 ft, depth 12.5 ft, screened 5 to 10 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 20.48 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum.

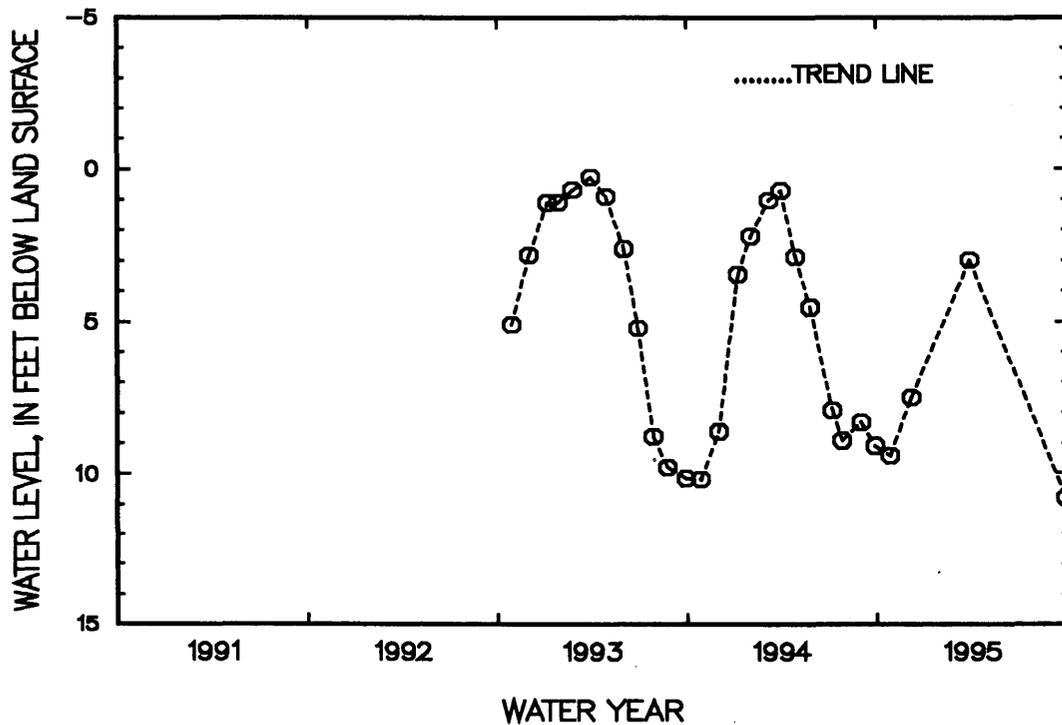
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.28 ft below land-surface datum, Mar. 30, 1993; lowest measured, 10.83 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	9.41	DEC 05	7.53	MAR 27	3.00	SEP 26	10.83

WATER YEAR 1995 HIGHEST 3.00 MAR 27, 1995 LOWEST 10.83 SEP 26, 1995



KING GEORGE COUNTY

382031077030101. Local number, 54Q 26.

LOCATION.--Lat 38°20'31", long 77°03'01", Hydrologic Unit 02070011, 250 ft east of Perimeter Road on fire break, 0.7 mi from intersection of Bennion Road and Perimeter Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 5 ft, 15 to 17.5 ft, depth 17.5 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 21.05 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum.

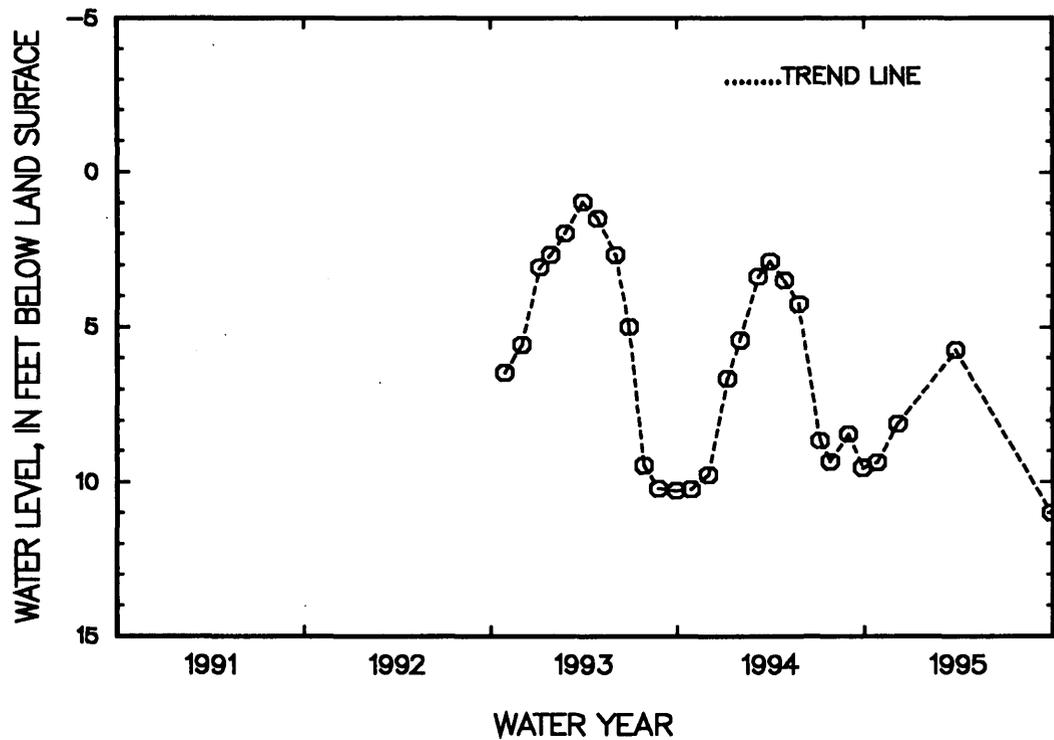
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.97 ft below land-surface datum, Mar. 30, 1993; lowest measured, 11.00 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	9.36	DEC 05	8.11	MAR 27	5.75	SEP 26	11.00

WATER YEAR 1995 HIGHEST 5.75 MAR 27, 1995 LOWEST 11.00 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382055077025901. Local number, 54Q 27.

LOCATION.--Lat 38°20'55", long 77°02'59", Hydrologic Unit 02070011, 100 ft east of Perimeter Road, 0.2 mi south of intersection of Bennion Road and Perimeter Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.5 ft, 19.5 to 22 ft, depth 22 ft, screened 9.5 to 19.5 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22.15 ft above sea level. Measuring point: Top of casing, 2.3 ft above land-surface datum.

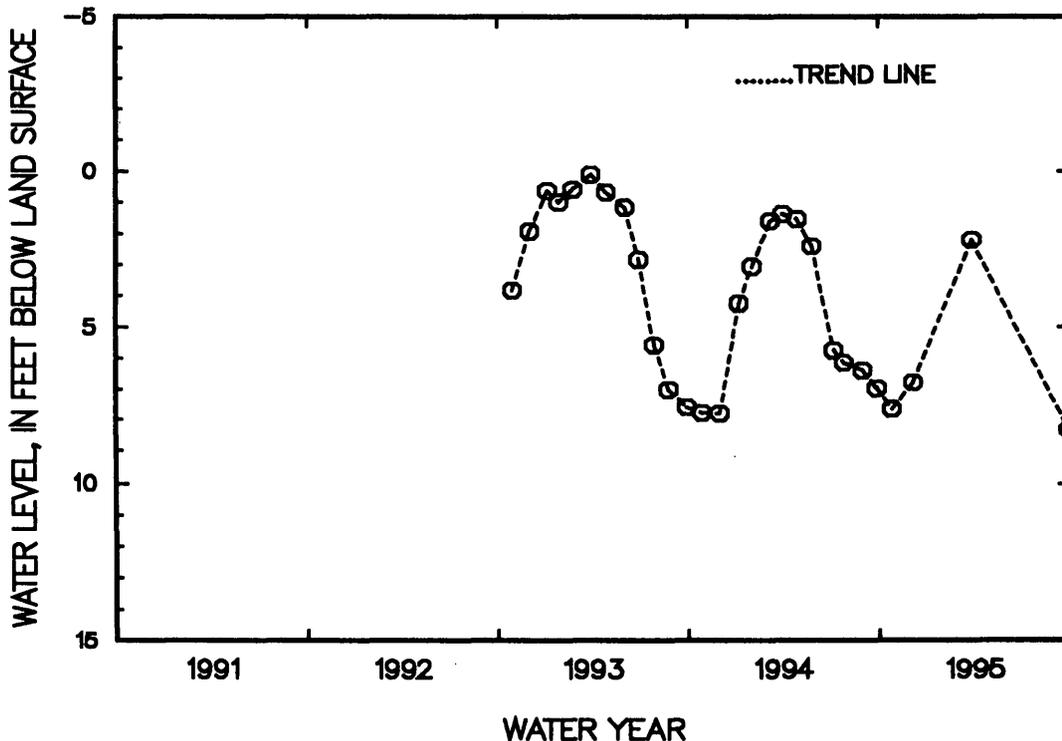
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.11 ft below land-surface datum, Mar. 30, 1993; lowest measured, 8.33 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.66	DEC 05	6.79	MAR 27	2.22	SEP 26	8.33

WATER YEAR 1995 HIGHEST 2.22 MAR 27, 1995 LOWEST 8.33 SEP 26, 1995



KING GEORGE COUNTY

382103077025403. Local number, 54Q 28.

LOCATION.--Lat 38°21'03", long 77°02'54", Hydrologic Unit 02070011, 100 ft southwest of intersection of Bennion Road and Perimeter Road, 100 ft east of Perimeter Road at edge of woods, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.7 ft, 19.7 to 21.95 ft, depth 21.95 ft, screened 9.7 to 19.7 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 21.33 ft above sea level. Measuring point: Top of recorder shelf, 2.5 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 1.96 ft thereafter.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.85 ft above land-surface datum, Mar. 13, 1993; lowest recorded, 8.41 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

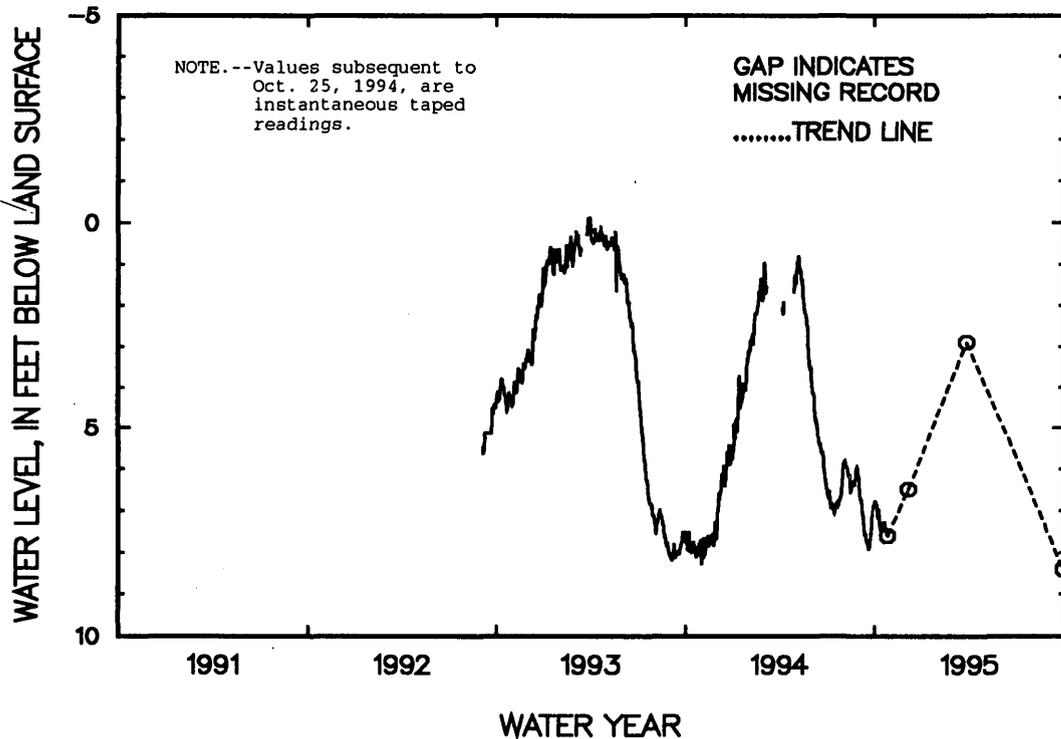
DAY	OCT
5	6.88
10	7.18
15	7.37
20	7.28
25	7.51

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.60	DEC 05	6.49	MAR 27	2.90	SEP 26	8.41

WATER YEAR 1995 HIGHEST MEASURED 2.90 MAR 27, 1995 LOWEST MEASURED 8.41 SEP 26, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382112077024401. Local number, 54Q 29.

LOCATION.--Lat 38°21'12", long 77°02'44", Hydrologic Unit 02070011, 25 ft southeast of Blandy Boulevard, 0.2 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 8 ft, 18 to 20.5 ft, depth 20.5 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 19.92 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

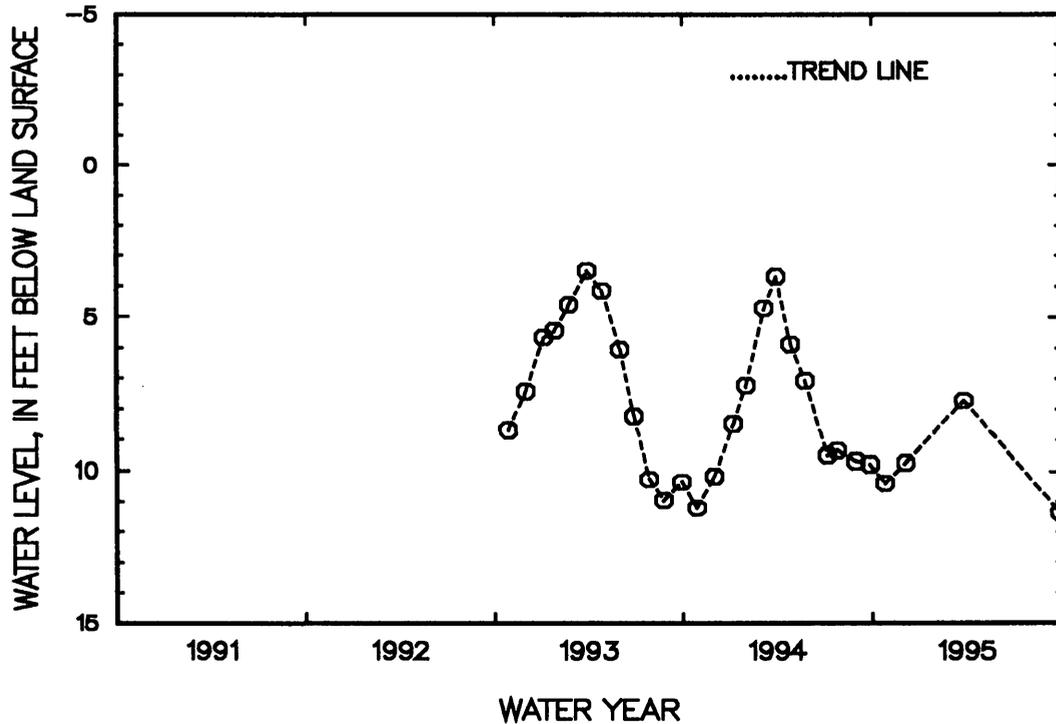
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.50 ft below land-surface datum, Mar. 30, 1993; lowest measured, 11.37 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	10.39	DEC 05	9.72	MAR 27	7.72	SEP 26	11.37

WATER YEAR 1995 HIGHEST 7.72 MAR 27, 1995 LOWEST 11.37 SEP 26, 1995



KING GEORGE COUNTY

382116077023501. Local number, 54Q 30.

LOCATION.--Lat 38°21'16", long 77°02'35", Hydrologic Unit 02070011, 25 ft southeast of Blandy Boulevard, 0.4 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.9 ft, 9.9 to 12.4 ft, depth 12.4 ft, screened 4.9 to 9.9 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17.61 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

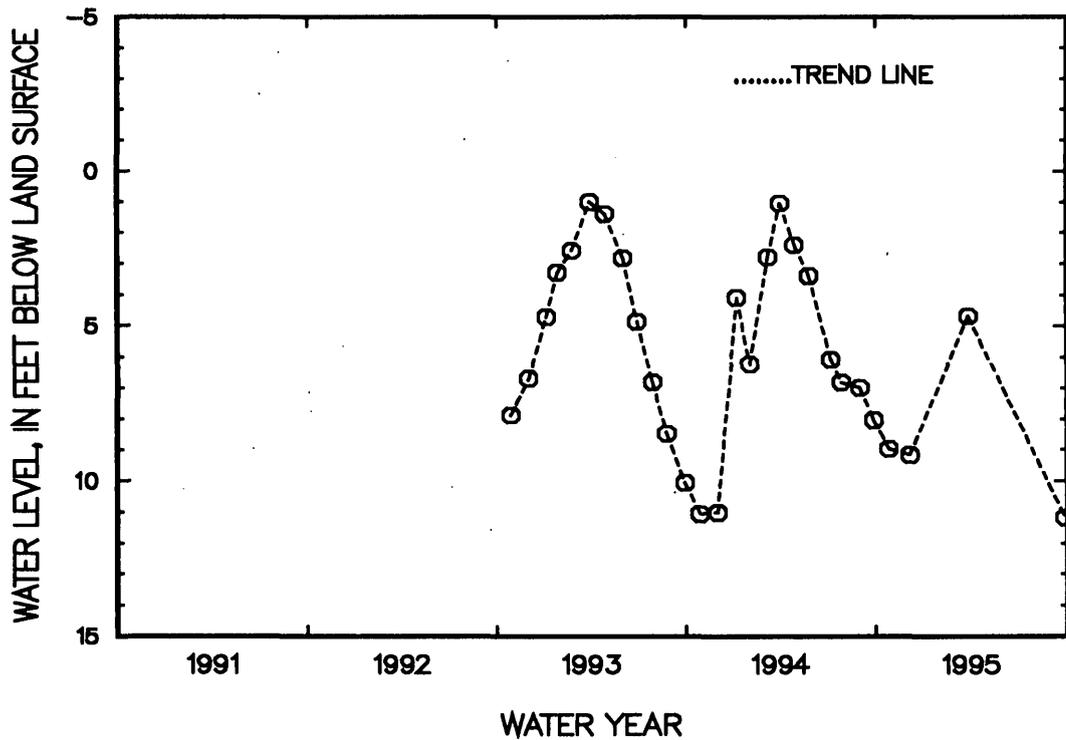
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.02 ft below land-surface datum, Mar. 30, 1993; lowest measured, 11.19 ft (below bottom of screen; may not reflect true water-level elevation in the aquifer) below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	8.97	DEC 05	9.17	MAR 27	4.68	SEP 26	11.19

WATER YEAR 1995 HIGHEST 4.68 MAR 27, 1995 LOWEST 11.19 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382123077020501. Local number, 54Q 31.

LOCATION.--Lat 38°21'23", long 77°02'05", Hydrologic Unit 02070011, 50 ft south of Blandy Boulevard, 0.8 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.7 ft, 14.7 to 17.2 ft, depth 17.2 ft, screened 4.7 to 14.7 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 19.81 ft above sea level. Measuring point: Top of casing, 2.17 ft above land-surface datum.

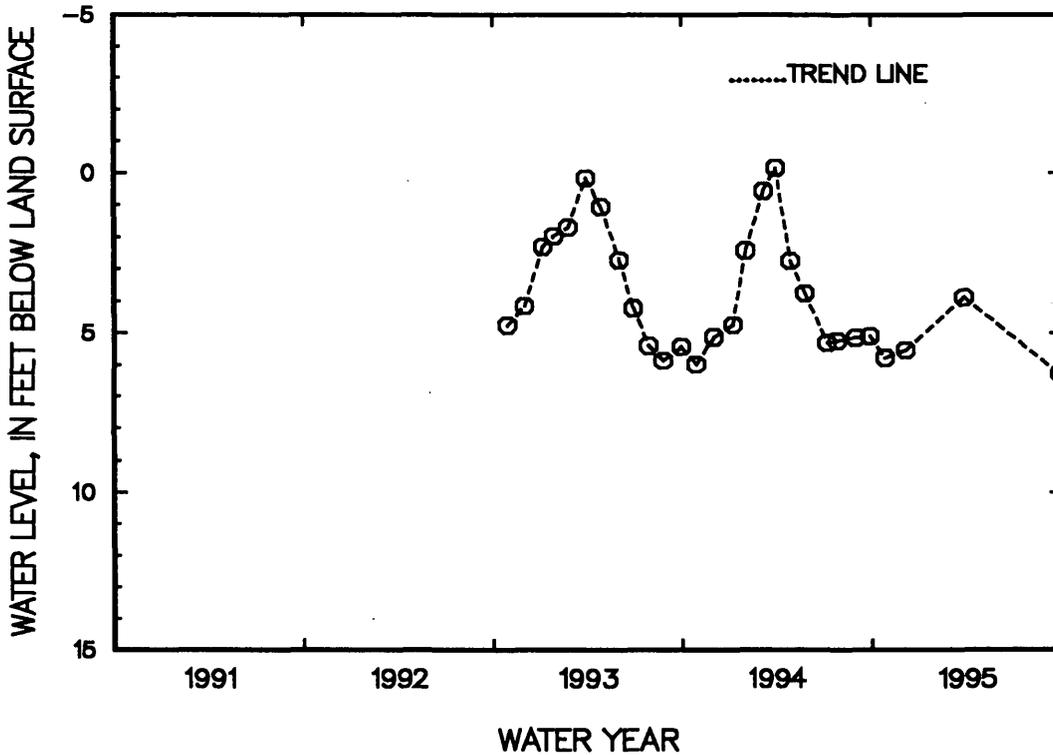
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.15 ft above land-surface datum, Mar. 31, 1994; lowest measured, 6.31 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	5.77	DEC 05	5.53	MAR 27	3.89	SEP 26	6.31

WATER YEAR 1995 HIGHEST 3.89 MAR 27, 1995 LOWEST 6.31 SEP 26, 1995



KING GEORGE COUNTY

382127077013301. Local number, 54Q 32.

LOCATION.--Lat 38°21'27", long 77°01'33", Hydrologic Unit 02070011, 25 ft south of Blandy Boulevard, 1.3 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 17.75 ft, 27.75 to 30 ft, depth 30 ft, screened 17.75 to 27.75 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to November 1994, monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 21.02 ft above sea level. Measuring point: Top of casing, 2.04 ft above land-surface datum prior to Nov. 4, 1994; top of recorder shelf, 2.54 ft thereafter.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft below land-surface datum, Mar. 31, 1994; lowest recorded, 8.54 ft below land-surface datum, Sept. 15, 16, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994

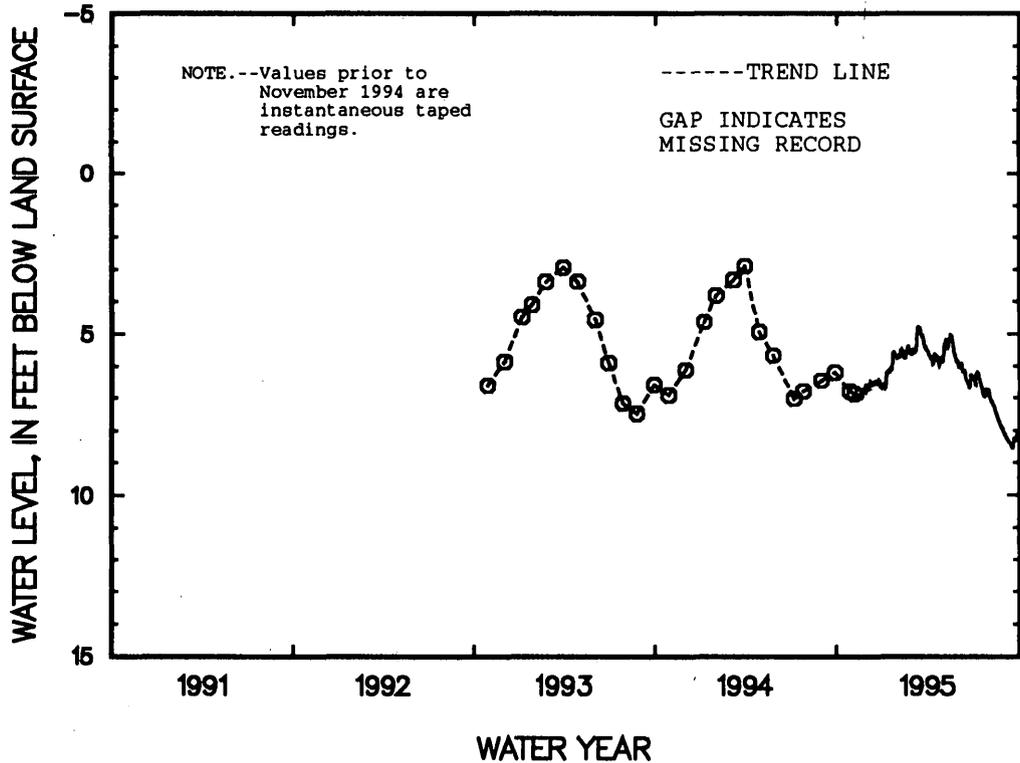
DATE	WATER LEVEL
OCT 26	6.80

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, NOVEMBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	6.88	6.62	6.70	5.55	5.58	5.75	5.25	5.93	6.33	7.14	8.27
10	---	6.97	6.53	6.24	5.55	4.98	5.95	5.47	6.18	6.28	7.27	8.39
15	---	6.95	6.55	6.17	5.75	4.82	5.65	5.04	6.43	6.64	7.52	8.54
20	---	6.99	6.57	5.96	5.35	5.09	5.85	5.31	6.62	6.95	7.73	8.28
25	---	6.73	6.59	5.66	5.60	5.39	5.73	5.74	6.26	6.80	7.93	8.10
DOM	---	6.66	6.70	5.70	5.54	5.54	5.89	5.99	6.39	6.88	8.10	8.13

WATER YEAR 1995 HIGHEST RECORDED 4.74 MAR 11, 12, 1995 LOWEST RECORDED 8.54 SEP 15, 16, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382130077010801. Local number, 54Q 33.

LOCATION.--Lat 38°21'30", long 77°01'08", Hydrologic Unit 02070011, 1,100 ft west of the Potomac River along boundary fence, 1.7 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12.88 ft, 22.88 to 25.13 ft, depth 25.13 ft, screened 12.88 to 22.88 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 21.20 ft above sea level. Measuring point: Top of casing, 2.3 ft above land-surface datum.

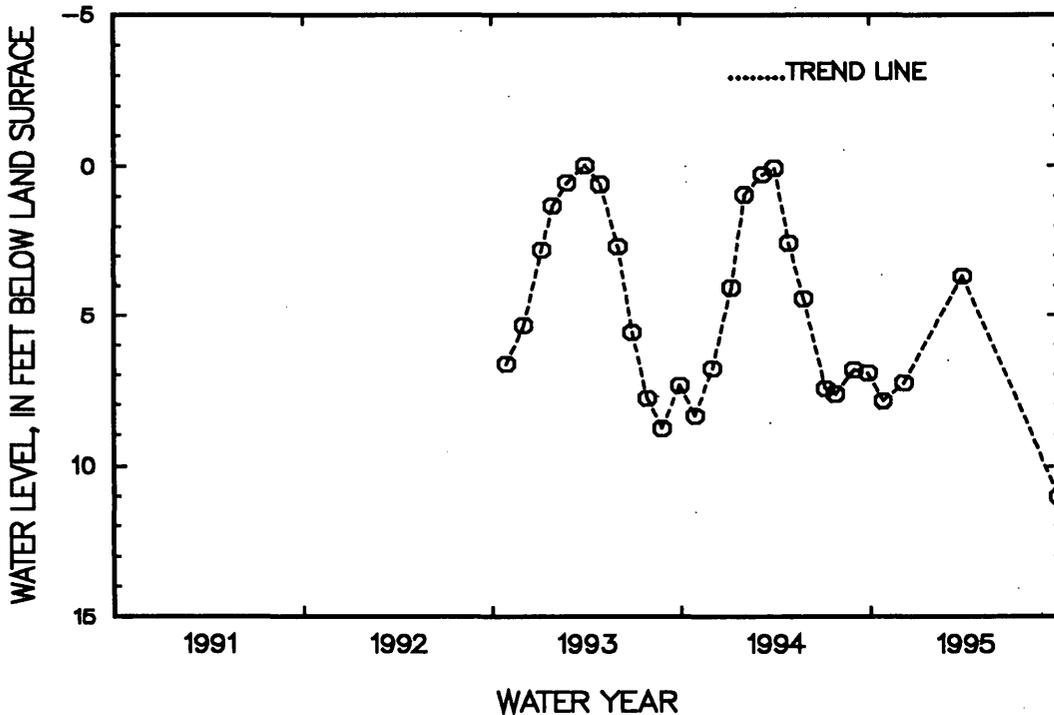
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.02 ft above land-surface datum, Mar. 30, 1993; lowest measured, 11.04 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.88	DEC 05	7.28	MAR 27	3.68	SEP 26	11.04

WATER YEAR 1995 HIGHEST 3.68 MAR 27, 1995 LOWEST 11.04 SEP 26, 1995



KING GEORGE COUNTY

382129077005803. Local number, 54Q 34.

LOCATION.--Lat 38°21'29", long 77°00'58", Hydrologic Unit 02070011, 200 ft west of the Potomac River, 400 ft south of U.S. Highway 301, 750 ft east of Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 7.75 ft, 17.75 to 20 ft, depth 20 ft, screened 7.75 to 17.75 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 20.44 ft above sea level. Measuring point: Top of recorder shelf, 2.7 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.06 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 9.12 ft below land-surface datum, Mar. 31, 1994; lowest recorded, 16.08 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

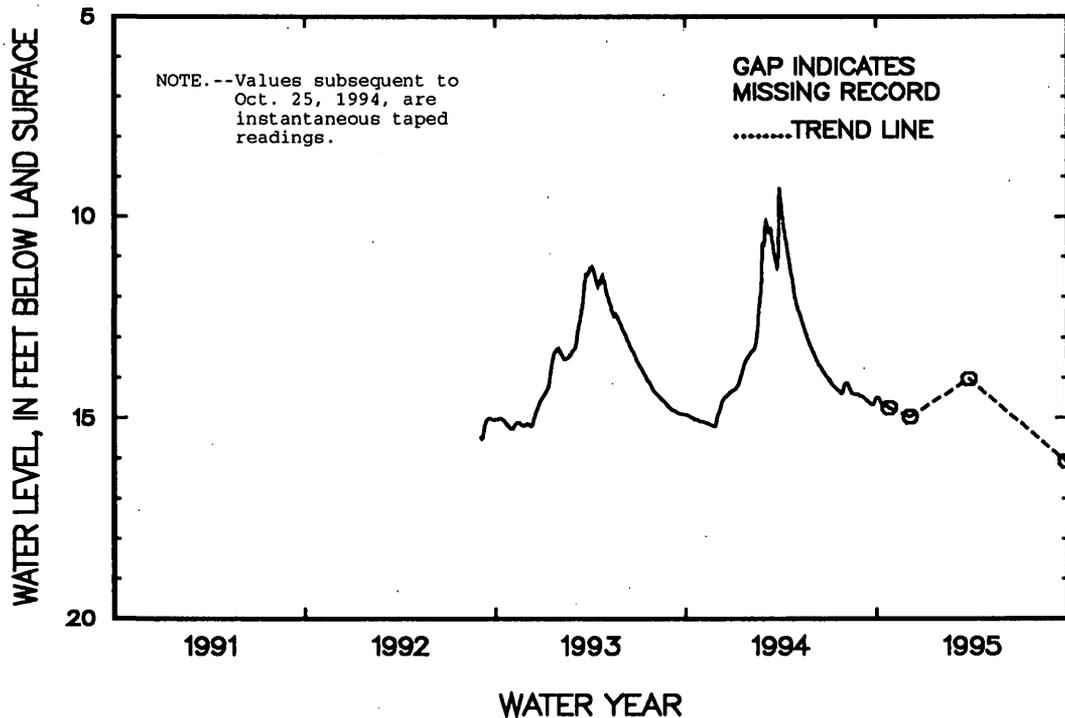
DAY	OCT
10	14.61
15	14.68
20	14.70
25	14.73

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	14.75	DEC 05	14.97	MAR 27	14.04	SEP 26	16.08

WATER YEAR 1995 HIGHEST MEASURED 14.04 MAR 27, 1995 LOWEST MEASURED 16.08 SEP 26, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382131077005501. Local number, 54Q 35.

LOCATION.--Lat 38°21'31", long 77°00'55", Hydrologic Unit 02070011, 100 ft west of the Potomac River, 300 ft south of U.S. Highway 301, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren.

Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 7.0 ft, 12 to 14.25 ft, depth 14.25 ft, screened 7 to 12 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 4.4 ft above sea level. Measuring point: Top of recorder shelf, 2.65 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.14 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.07 ft above land-surface datum, Mar. 29, 1994; lowest recorded, 3.15 ft below land-surface datum, Aug. 5, 6, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

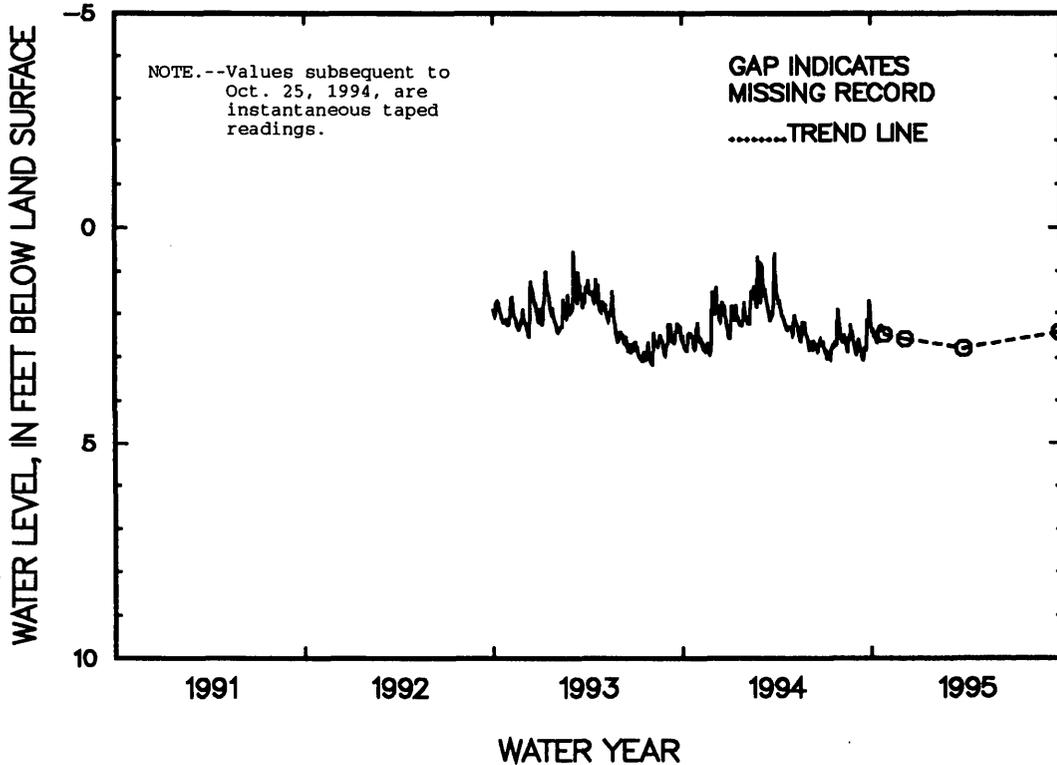
DAY	OCT
5	2.48
10	2.61
15	2.38
20	2.26
25	2.39

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	2.49	DEC 05	2.59	MAR 27	2.80	SEP 26	2.44

WATER YEAR 1995 HIGHEST RECORDED 2.21 OCT 23, 24, 1994 LOWEST MEASURED 2.80 MAR 27, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

382055077011301. Local number, 54Q 36.

LOCATION.--Lat 38°20'55", long 77°01'13", Hydrologic Unit 02070011, 400 ft west of Higley Road, 0.2 mi north of intersection of Higley Road and Tisdale Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 8 ft, 18 to 18.5 ft, depth 18.5 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 20.24 ft above sea level. Measuring point: Top of casing, 1.8 ft above land-surface datum.

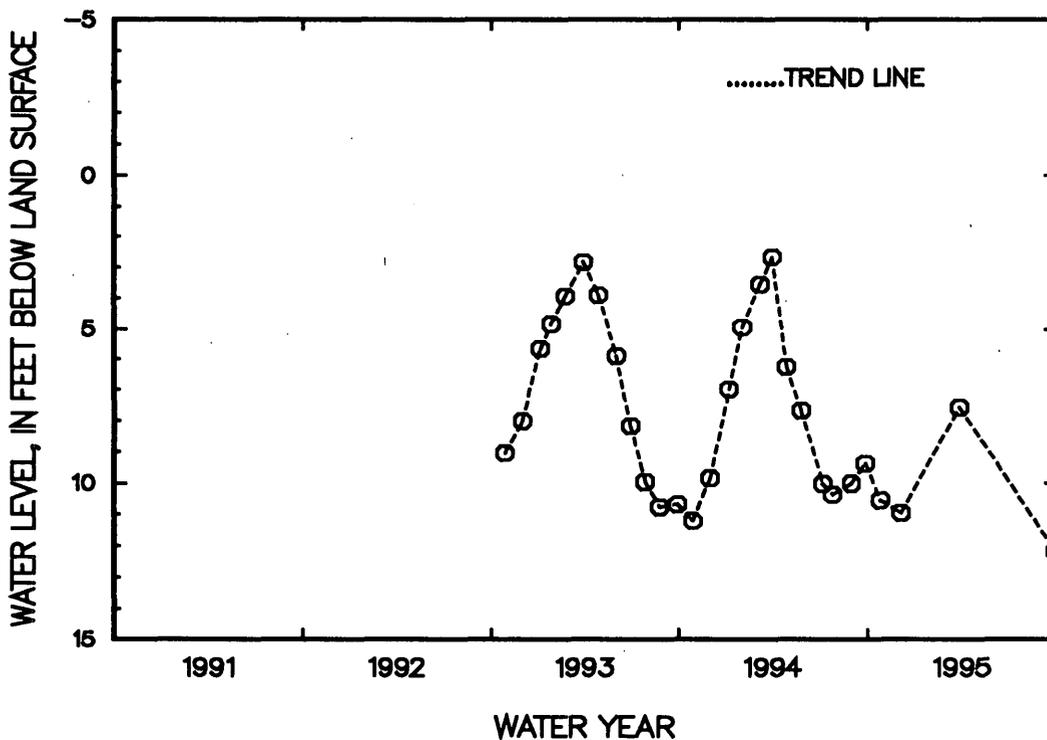
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.66 ft below land-surface datum, Mar. 31, 1994; lowest measured, 12.18 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	10.55	DEC 05	10.95	MAR 27	7.57	SEP 26	12.18

WATER YEAR 1995 HIGHEST 7.57 MAR 27, 1995 LOWEST 12.18 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382042077011901. Local number, 54Q 37.

LOCATION.--Lat 38°20'42", long 77°01'19", Hydrologic Unit 02070011, 75 ft southwest of unnamed road, 0.3 mi northwest of intersection of Tisdale Road and unnamed road, 0.3 mi west of the Potomac River, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 8 ft, 18 to 18.5 ft, depth 18.5 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15.81 ft above sea level. Measuring point: Top of casing, 1.65 ft above land-surface datum.

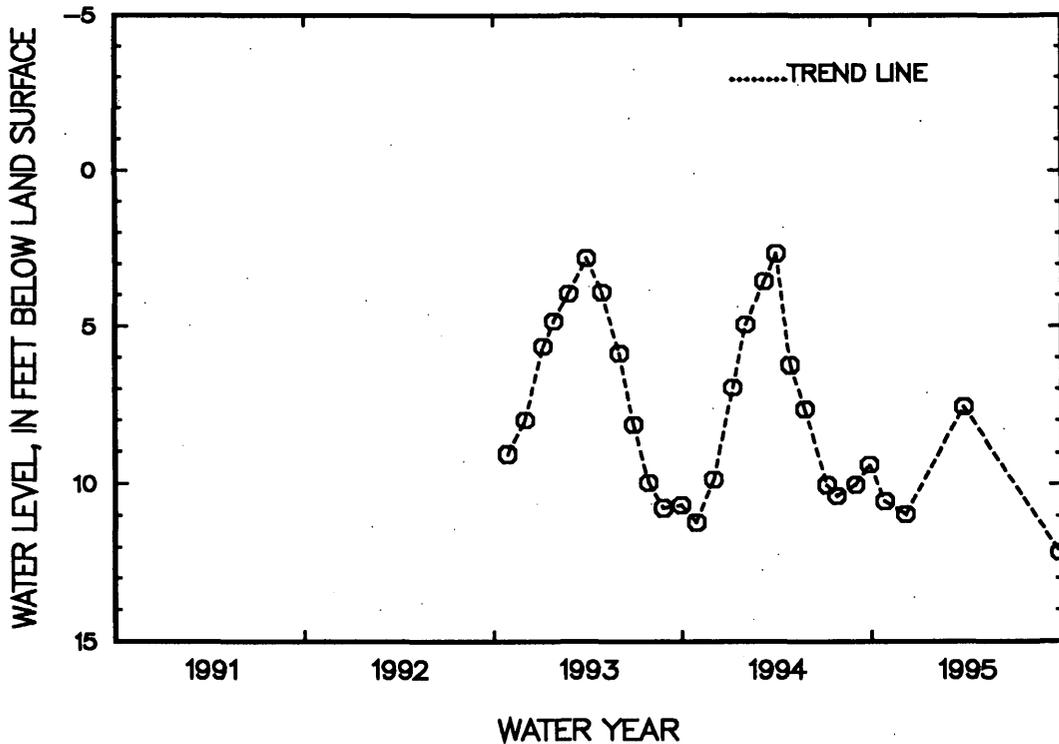
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft below land-surface datum, Mar. 30, 1993; lowest measured, 11.91 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	10.49	DEC 05	10.02	MAR 27	6.80	SEP 26	11.91

WATER YEAR 1995 HIGHEST 6.80 MAR 27, 1995 LOWEST 11.91 SEP 26, 1995



KING GEORGE COUNTY

382048077015201. Local number, 54Q 38.

LOCATION.--Lat 38°20'48", long 77°01'52", Hydrologic Unit 02070011, 10 ft east of unnamed road, 500 ft north of Bagby Road on unnamed road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 16.5 ft, 26.5 to 27 ft, depth 27 ft, screened 16.5 to 26.5 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to November 1994, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17.05 ft above sea level. Measuring point: Top of casing, 2.65 ft above land-surface datum prior to Nov. 4, 1994; top of recorder shelf, 3.06 ft thereafter.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.11 ft below land-surface datum, Mar. 31, 1994; lowest measured, 12.74 ft below land-surface datum, Sept. 30, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994

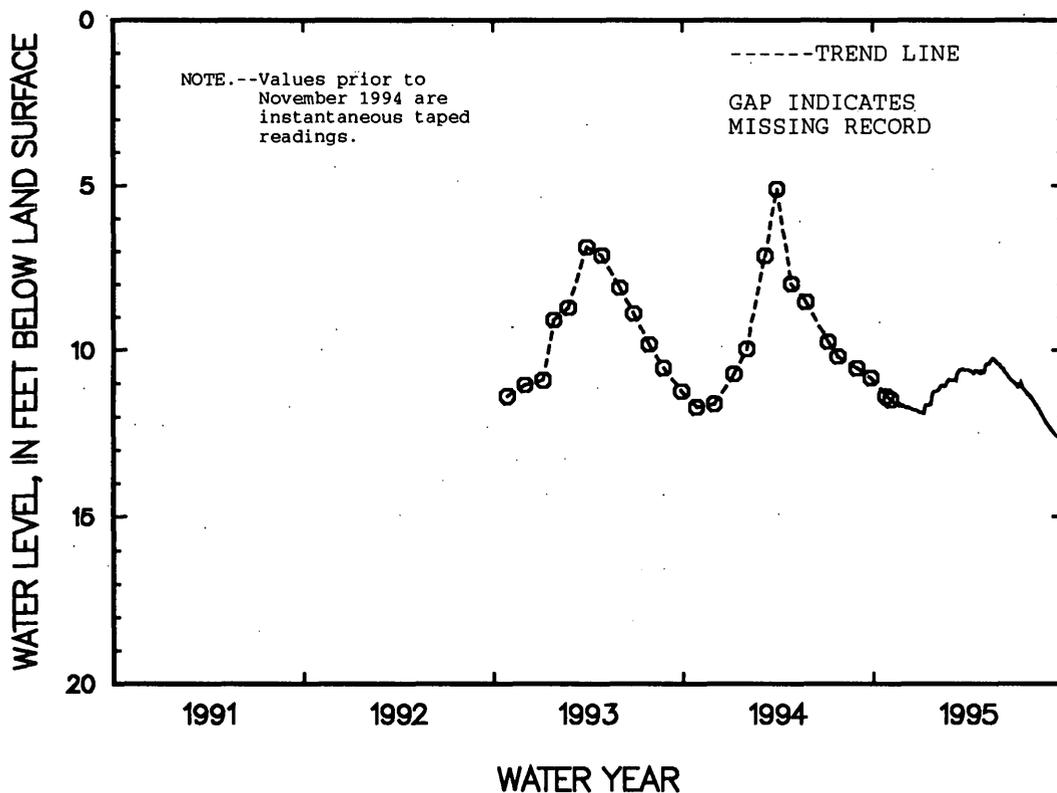
DATE	WATER LEVEL
OCT 26	11.39

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, NOVEMBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	11.51	11.73	11.90	11.11	10.90	10.64	10.42	10.55	11.05	11.62	12.39
10	---	11.58	11.74	11.65	11.06	10.74	10.70	10.43	10.67	11.04	11.72	12.49
15	---	11.63	11.78	11.66	11.08	10.61	10.61	10.26	10.79	11.18	11.85	12.59
20	---	11.68	11.80	11.59	10.92	10.58	10.66	10.27	10.89	11.30	11.99	12.63
25	---	11.69	11.83	11.25	10.92	10.60	10.63	10.38	10.96	11.37	12.14	12.66
END	---	11.70	11.87	11.23	10.91	10.60	10.68	10.48	11.04	11.48	12.28	12.74

WATER YEAR 1995 HIGHEST RECORDED 10.21 MAY 17, 1995 LOWEST RECORDED 12.74 SEP 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382054077024201. Local number, 54Q 39.

LOCATION.--Lat 38°20'54", long 77°02'42", Hydrologic Unit 02070011, 50 ft southwest of Bennion Road, 0.3 mi southeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 5 ft, 15 to 17.5 ft, depth 17.5 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 23.43 ft above sea level. Measuring point: Top of casing, 1.85 ft above land-surface datum.

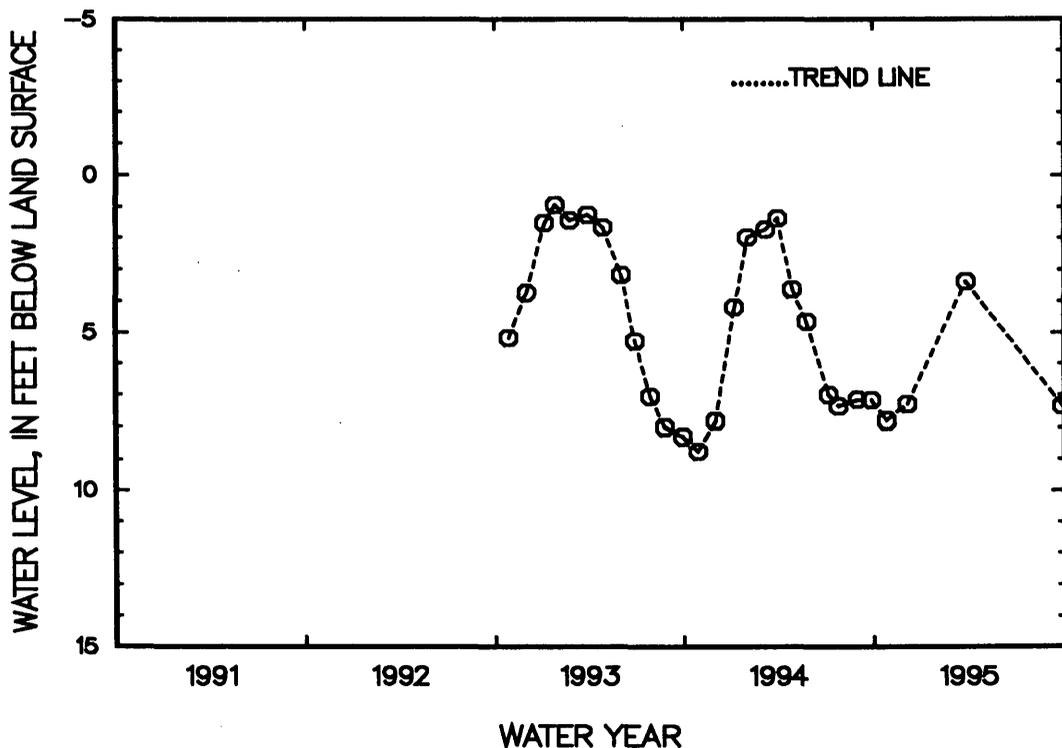
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.95 ft below land-surface datum, Jan. 26, 1993; lowest measured, 8.75 ft below land-surface datum, Oct. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.80	DEC 05	7.28	MAR 27	3.38	SEP 26	7.35

WATER YEAR 1995 HIGHEST 3.38 MAR 27, 1995 LOWEST 7.80 OCT 26, 1994



KING GEORGE COUNTY

382042077022401. Local number, 54Q 40.

LOCATION.--Lat 38°20'42", long 77°02'24", Hydrologic Unit 02070011, 50 ft southwest of Bennion Road, 0.6 mi southeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 5 ft, 15 to 17.5 ft, depth 17.5 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 21.83 ft above sea level. Measuring point: Top of casing, 1.89 ft above land-surface datum.

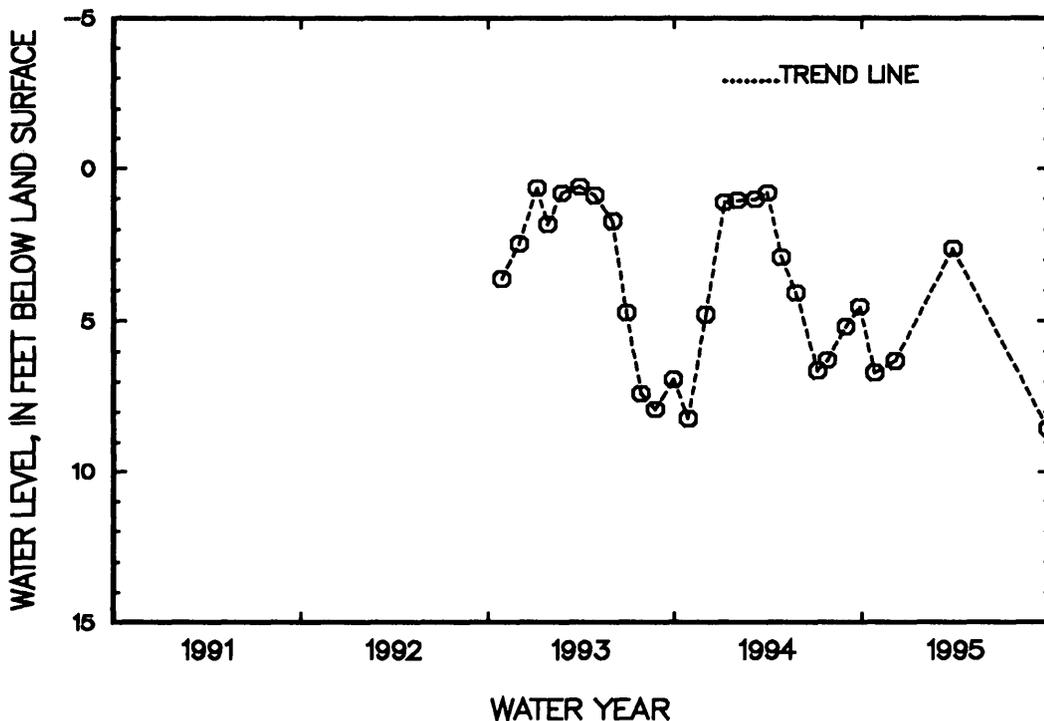
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.59 ft below land-surface datum, Mar. 30, 1993; lowest measured, 8.56 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	6.70	DEC 05	6.31	MAR 27	2.63	SEP 26	8.56

WATER YEAR 1995 HIGHEST 2.63 MAR 27, 1995 LOWEST 8.56 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382027077020201. Local number, 54Q 41.

LOCATION.--Lat 38°20'27", long 77°02'02", Hydrologic Unit 02070011, at intersection of Bennion Road and Caskey Road, 75 ft southwest of intersection, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 3 ft, 13 to 15.5 ft, depth 15.5 ft, screened 3 to 13 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13.68 ft above sea level. Measuring point: Top of casing, 1.93 ft above land-surface datum.

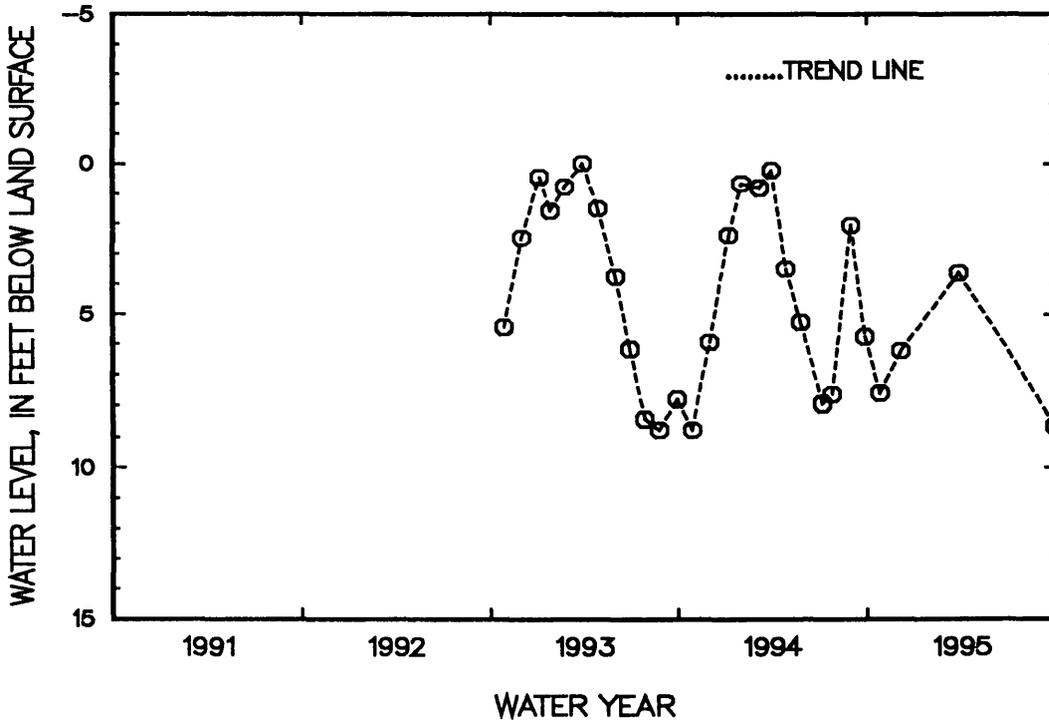
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, at land-surface datum, Mar. 30, 1993; lowest measured, 8.75 ft below land-surface datum, Oct. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.59	DEC 05	6.20	MAR 27	3.63	SEP 26	8.63

WATER YEAR 1995 HIGHEST 3.63 MAR 27, 1995 LOWEST 8.63 SEP 26, 1995



KING GEORGE COUNTY

382014077020101. Local number, 54Q 42.

LOCATION.--Lat 38°20'14", long 77°02'01", Hydrologic Unit 02070011, 50 ft west of Caskey Road, 0.2 mi south of intersection of Bennion Road and Caskey Road, 0.7 mi north of intersection of Caskey Road and Dahlgren Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12.3 ft, 22.3 to 24.8 ft, depth 24.8 ft, screened 12.3 to 22.3 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to November 1994, monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 14.5 ft above sea level. Measuring point: Top of casing, 2.65 ft above land-surface datum prior to Nov. 4, 1994; top of recorder shelf, 3.14 ft thereafter.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.94 ft below land-surface datum, Mar. 31, 1994; lowest measured, 12.98 ft below land-surface datum, Sept. 22, 23, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994

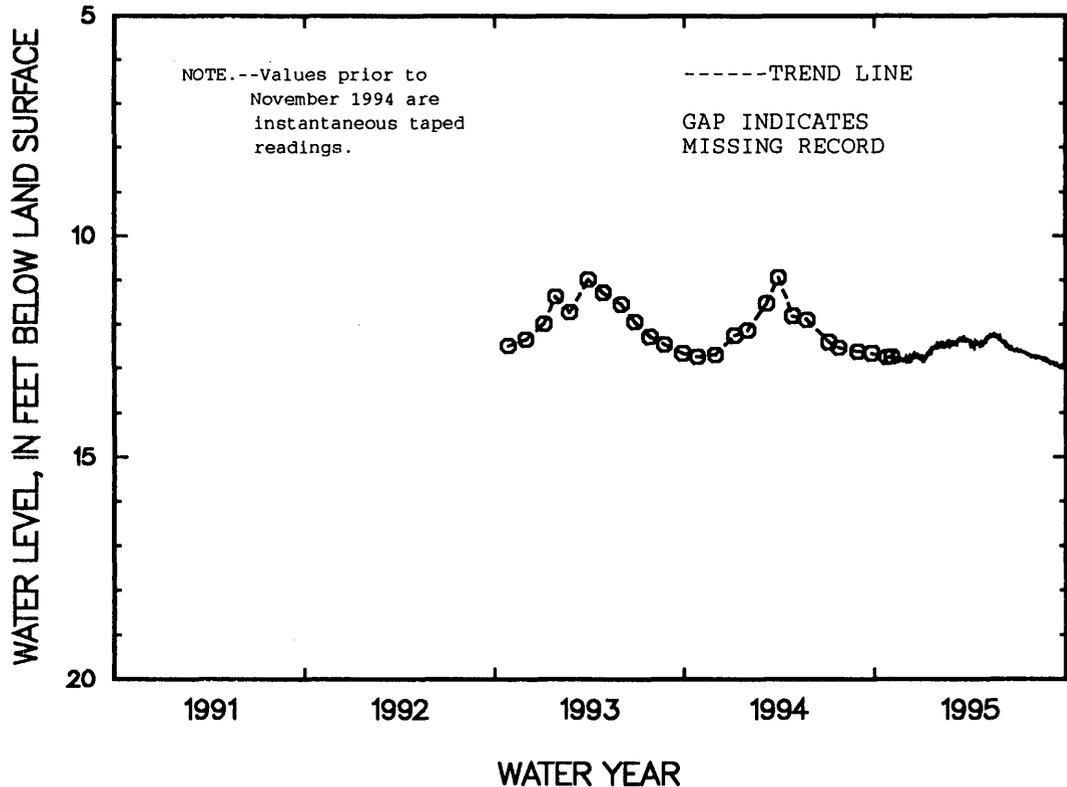
DATE	WATER LEVEL
OCT 26	12.75

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, NOVEMBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	12.76	12.77	12.81	12.51	12.40	12.46	12.28	12.40	12.62	12.75	12.87
10	---	12.90	12.76	12.71	12.43	12.40	12.53	12.25	12.45	12.62	12.73	12.93
15	---	12.80	12.75	12.62	12.46	12.30	12.43	12.24	12.55	12.64	12.77	12.95
20	---	12.82	12.74	12.50	12.35	12.30	12.46	12.25	12.58	12.67	12.78	12.94
25	---	12.77	12.75	12.54	12.44	12.37	12.44	12.30	12.59	12.70	12.82	12.92
BOM	---	12.79	12.74	12.48	12.41	12.36	12.39	12.36	12.57	12.71	12.85	12.93

WATER YEAR 1995 HIGHEST RECORDED 12.13 MAY 17, 1995 LOWEST RECORDED 12.98 SEP 22, 23, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

382004077015701. Local number, 54Q 43.

LOCATION.--Lat 38°20'04", long 77°01'57", Hydrologic Unit 02070011, 100 ft east of Caskey Road, 0.4 mi south of intersection of Bennion Road and Caskey Road, 0.5 mi north of intersection of Caskey Road and Dahlgren Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.3 ft, 14.3 to 16.8 ft, depth 16.8 ft, screened 9.3 to 14.3 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. May 20, 1993, to Sept. 27, 1994, monthly measurement with chalked tape. Prior to May 20, 1993, digital recorder--60-minute punch. Measurement with chalked tape Sept. 30, 1992.

DATUM.--Elevation of land-surface datum is 13.89 ft above sea level. Measuring point: Top of casing, 2.58 ft above land-surface datum. Prior to May 28, 1993, measuring point was top of recorder shelf, 3.0 ft above land-surface datum.

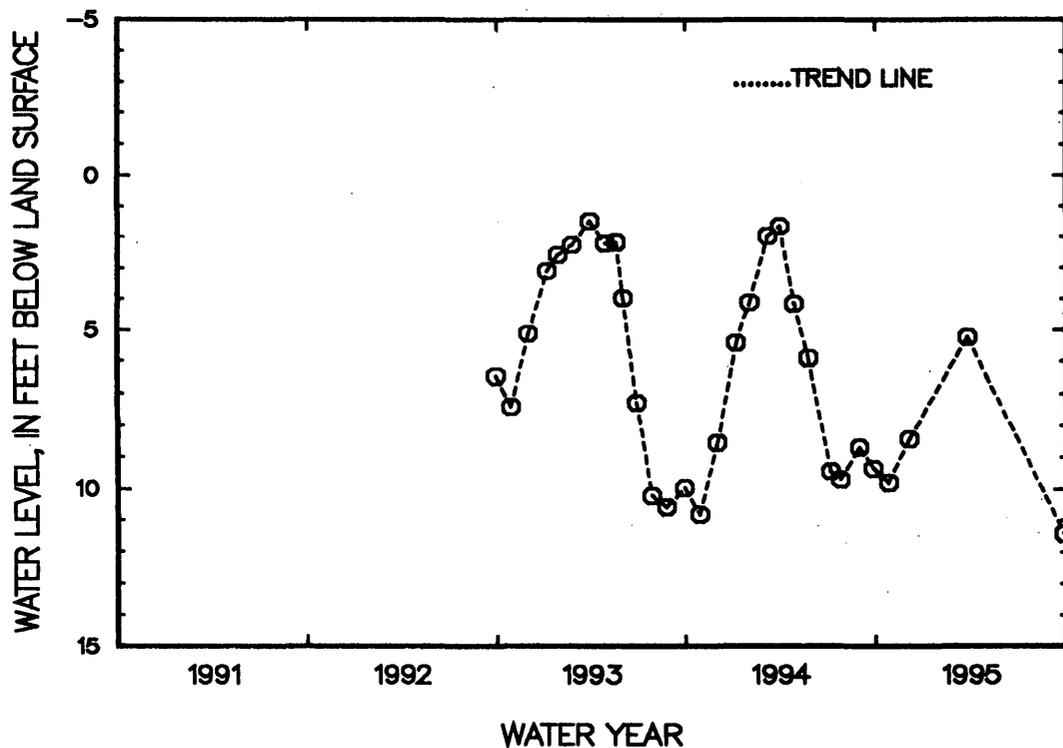
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.47 ft below land-surface datum, Mar. 30, 1993; lowest measured, 11.42 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	9.79	DEC 05	8.42	MAR 27	5.24	SEP 26	11.42

WATER YEAR 1995 HIGHEST 5.24 MAR 27, 1995 LOWEST 11.42 SEP 26, 1995



KING GEORGE COUNTY

381946077015901. Local number, 54Q 44.

LOCATION.--Lat 38°19'46", long 77°01'59", Hydrologic Unit 02070011, 25 ft west of Caskey Road, 600 ft north of intersection of Dahlgren Road and Caskey Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12 ft, 22 to 24.5 ft, depth 24.5 ft, screened 12 to 22 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 16.44 ft above sea level. Measuring point: Top of casing, 0.35 ft below land-surface datum.

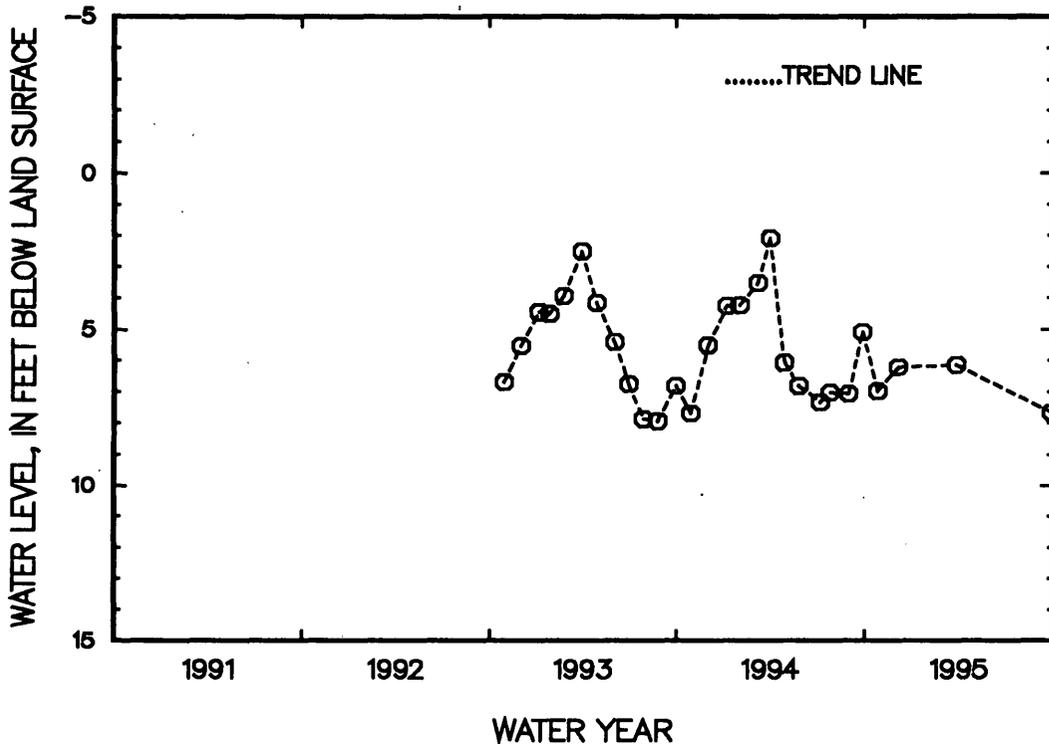
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.08 ft below land-surface datum, Mar. 31, 1994; lowest measured, 7.93 ft below land-surface datum, Aug. 25, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	6.97	DEC 05	6.21	MAR 27	6.14	SEP 26	7.66

WATER YEAR 1995 HIGHEST 6.14 MAR 27, 1995 LOWEST 7.66 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381949077013101. Local number, 54Q 45.

LOCATION.--Lat 38°19'49", long 77°01'31", Hydrologic Unit 02070011, 400 ft east of Tisdale Road, 0.2 mi northeast of intersection of Dahlgren Road and Tisdale Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12.6 ft, 22.6 to 25.1 ft, depth 25.1 ft, screened 12.6 to 22.6 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to November 1994, monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 16.24 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum prior to Nov. 4, 1994; top of recorder shelf, 2.58 ft thereafter.

REMARKS.--Missing record due to equipment malfunction.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.57 ft below land-surface datum, Mar. 30, 1993; lowest measured, 13.43 ft below land-surface datum, Sept. 15, 23, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994

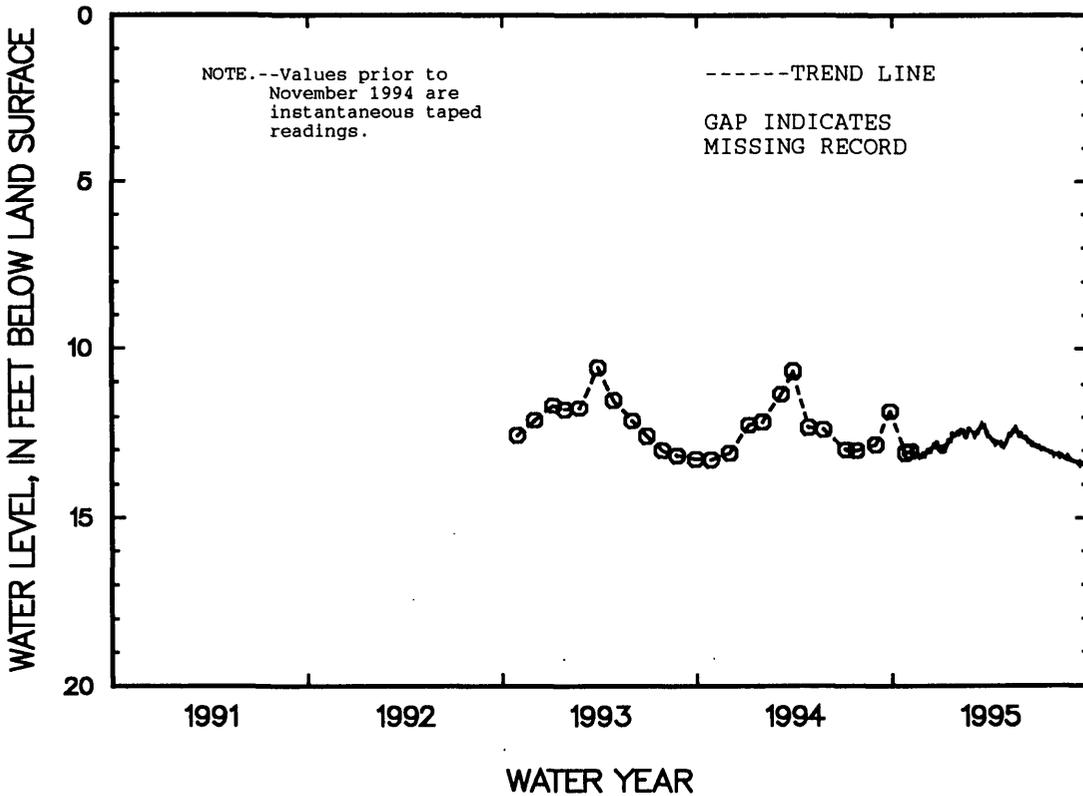
DATE	WATER LEVEL
OCT 26	13.06

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, NOVEMBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	13.05	12.97	13.06	12.45	12.53	12.70	12.53	12.63	12.98	13.10	13.33
10	---	13.18	12.91	12.86	12.39	12.46	12.83	12.49	12.71	12.94	13.11	13.38
15	---	13.13	12.90	12.68	12.58	12.26	12.74	12.38	12.84	12.99	13.21	13.43
20	---	13.20	12.90	12.44	12.30	12.31	12.81	12.37	12.82	13.06	13.23	13.37
25	---	13.06	12.90	12.55	---	12.48	12.82	12.47	12.84	13.07	13.27	13.35
EOM	---	13.07	12.98	12.46	12.45	12.57	12.78	12.60	12.86	13.10	13.28	13.39

WATER YEAR 1995 HIGHEST RECORDED 12.14 MAR 21, 1995 LOWEST RECORDED 13.43 SEP 15, 23, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

381946077014201. Local number, 54Q 46.

LOCATION.--Lat 38°19'46", long 77°01'42", Hydrologic Unit 02070011, 200 ft west of Tisdale Road at edge of woods, 0.2 mi northeast of intersection of Dahlgren Road and Tisdale Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.5 ft, 14.5 to 17 ft, depth 17 ft, screened 4.5 to 14.5 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

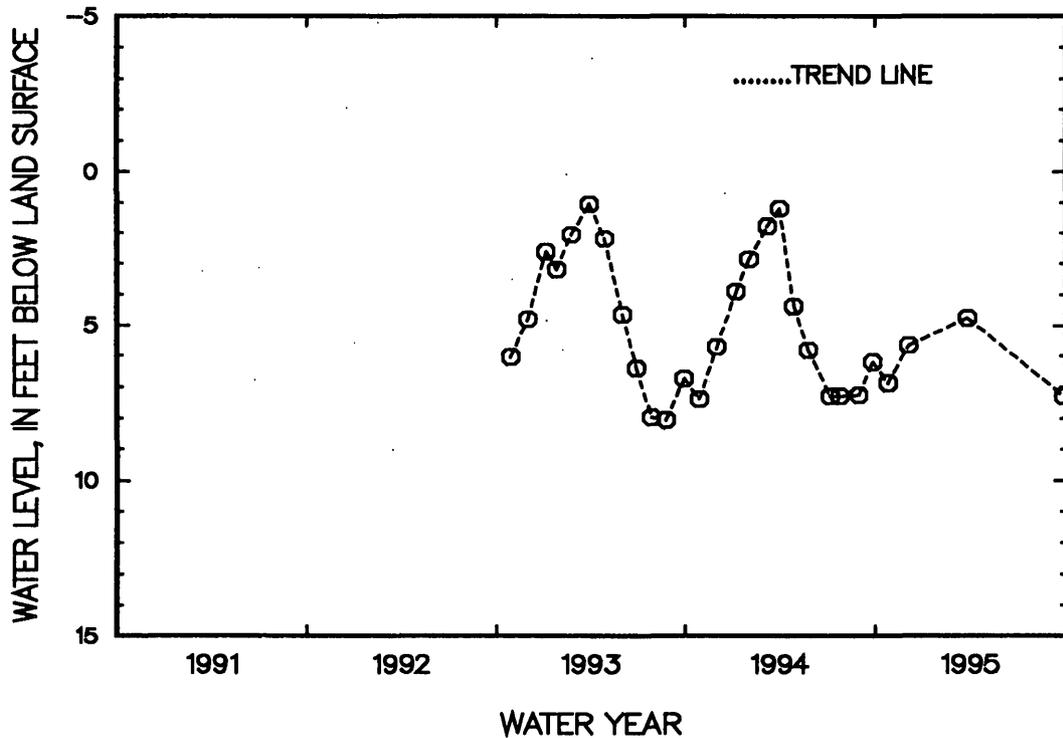
DATUM.--Elevation of land-surface datum is 14.61 ft above sea level. Measuring point: Top of casing, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.05 ft below land-surface datum, Mar. 30, 1993; lowest measured, 8.04 ft below land-surface datum, Aug. 25, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	6.86	DEC 05	5.63	MAR 27	4.75	SEP 26	7.29
WATER YEAR 1995 HIGHEST 4.75		MAR 27, 1995		LOWEST 7.29		SEP 26, 1995	



GROUND-WATER LEVELS

KING GEORGE COUNTY

382010077020001. Local number, 54Q 47.

LOCATION.--Lat 38°20'10", long 77°02'00", Hydrologic Unit 02070011, 50 ft west of Caskey Road, 0.3 mi south of intersection of Bennion Road and Caskey Road, 0.6 mi north of intersection of Dahlgren Road and Caskey Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12 ft, 22 to 24.5 ft, depth 24.5 ft, screened 12 to 22 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 3.91 ft above sea level. Measuring point: Top of casing, 2.7 ft above land-surface datum.

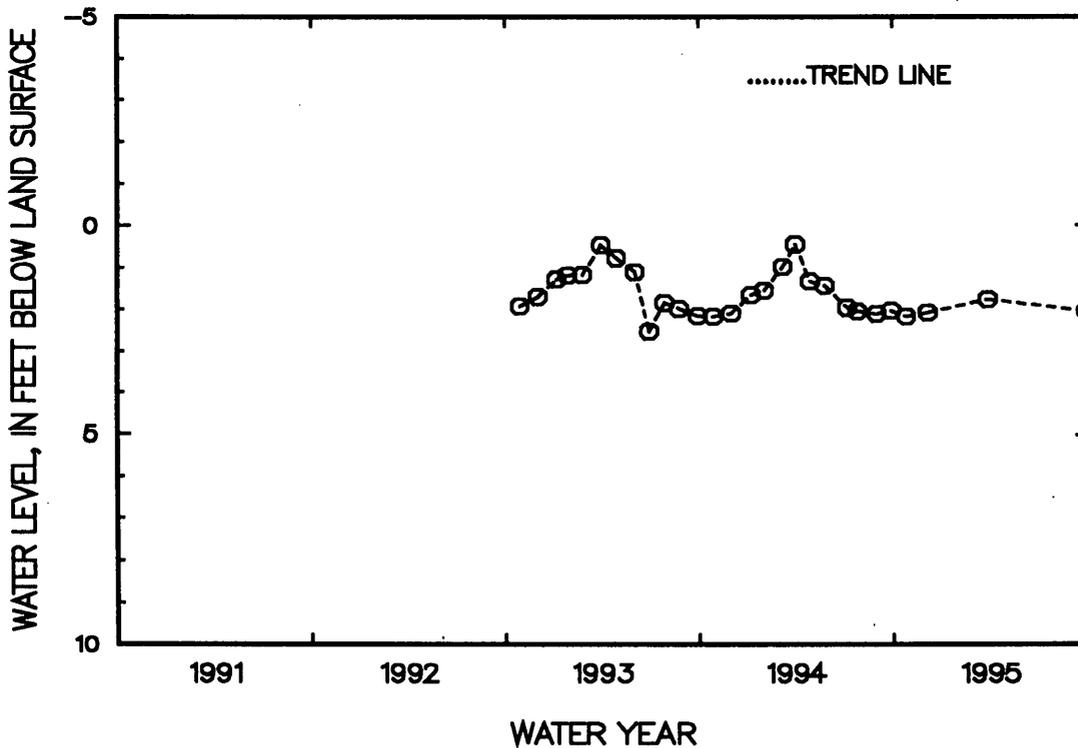
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.45 ft below land-surface datum, Mar. 31, 1994; lowest measured, 2.53 ft below land-surface datum, June 29, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	2.18	DEC 05	2.08	MAR 27	1.76	SEP 26	2.05

WATER YEAR 1995 HIGHEST 1.76 MAR 27, 1995 LOWEST 2.18 OCT 26, 1994



KING GEORGE COUNTY

381915077020303. Local number, 54Q 48.

LOCATION.--Lat 38°19'15", long 77°02'03", Hydrologic Unit 02070011, 100 ft south of Tisdale Road, 200 ft east of security gate at intersection of Tisdale Road and Welch Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 2.68 ft, 12.68 to 14.93 ft, depth 14.93 ft, screened 2.68 to 12.68 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 10.68 ft above sea level. Measuring point: Top of recorder shelf, 2.6 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.32 ft thereafter.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.07 ft above land-surface datum, Mar. 29, 1994; lowest recorded, 8.10 ft below land-surface datum, Sept. 16, 17, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994
LOWEST DAILY VALUES

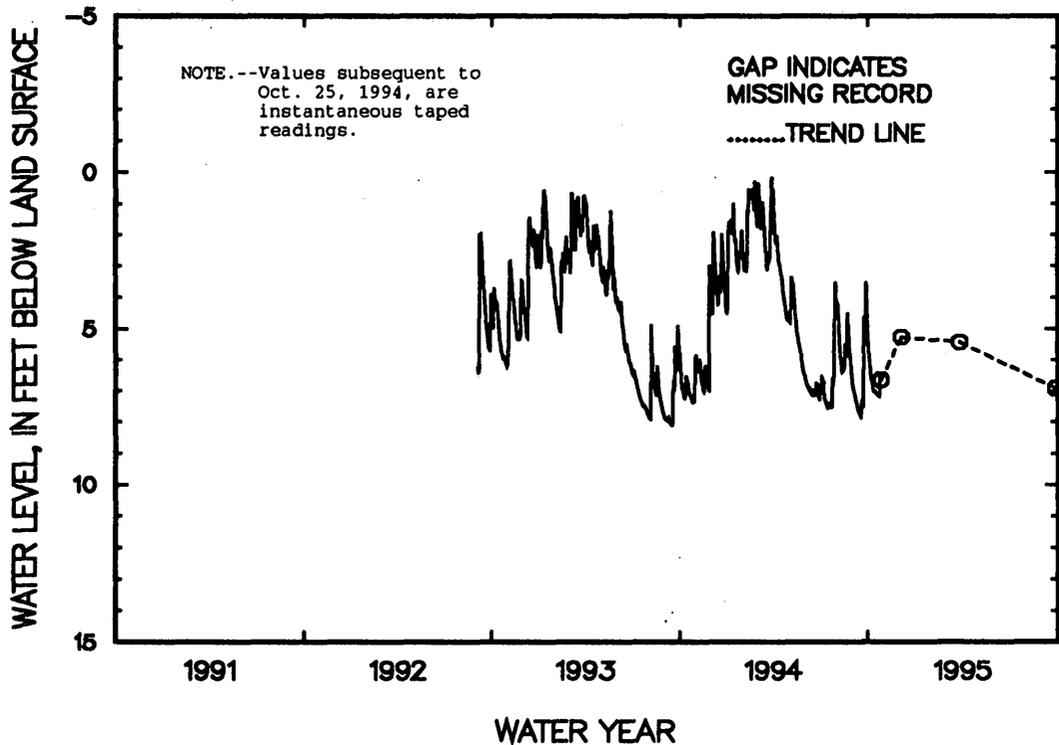
DAY	OCT
5	6.27
10	6.83
15	7.01
20	7.12
25	6.57

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	6.64	DEC 05	5.27	MAR 27	5.43	SEP 26	6.91

WATER YEAR 1995 HIGHEST RECORDED 4.89 OCT 01, 1994 LOWEST RECORDED 7.18 OCT 23, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

381926077023201. Local number, 54Q 49.

LOCATION.--Lat 38°19'26", long 77°02'32", Hydrologic Unit 02070011, 300 ft west of Sampson Road in open field, 0.1 mi south of intersection of Sampson Road and Caffee Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.5 ft, 19.5 to 25 ft, depth 25 ft, screened 9.5 to 19.5 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10.62 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

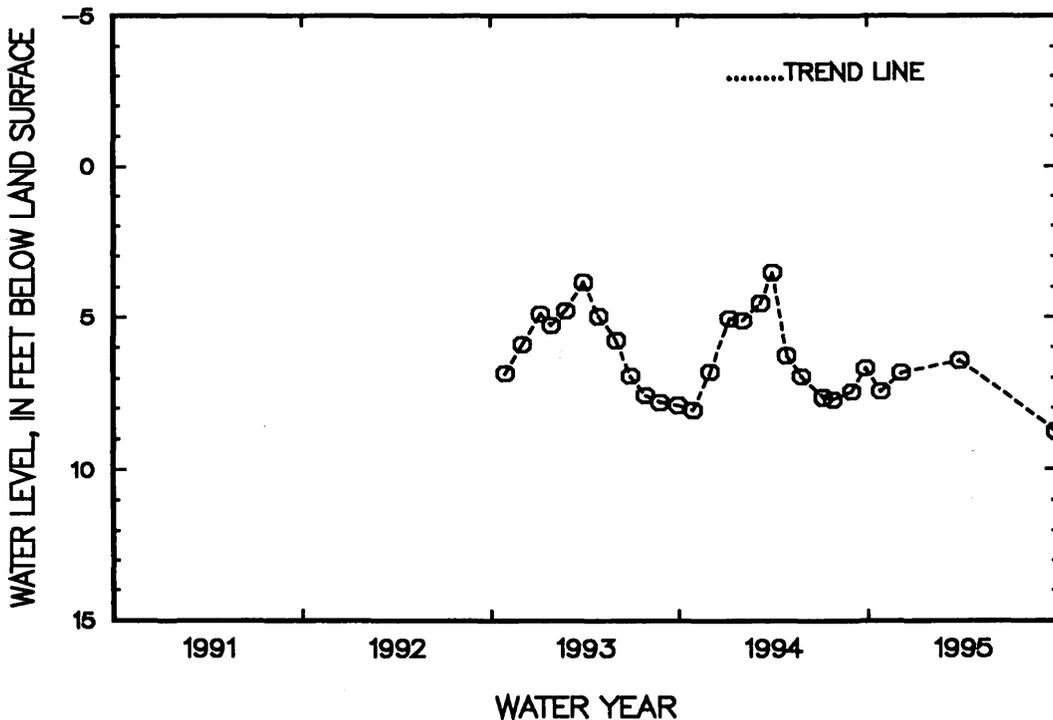
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.53 ft below land-surface datum, Mar. 31, 1994; lowest measured, 8.75 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.46	DEC 05	6.83	MAR 27	6.43	SEP 26	8.75

WATER YEAR 1995 HIGHEST 6.43 MAR 27, 1995 LOWEST 8.75 SEP 26, 1995



KING GEORGE COUNTY

381926077021701. Local number, 54Q 50.

LOCATION.--Lat 38°19'26", long 77°02'17", Hydrologic Unit 02070011, 325 ft southwest of Welch Road behind movie theatre at golf course, 0.3 mi north of intersection of Sampson Road and Welch Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 8 ft, 18 to 20.5 ft, depth 20.5 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10.80 ft above sea level. Measuring point: Top of casing, 1.85 ft above land-surface datum.

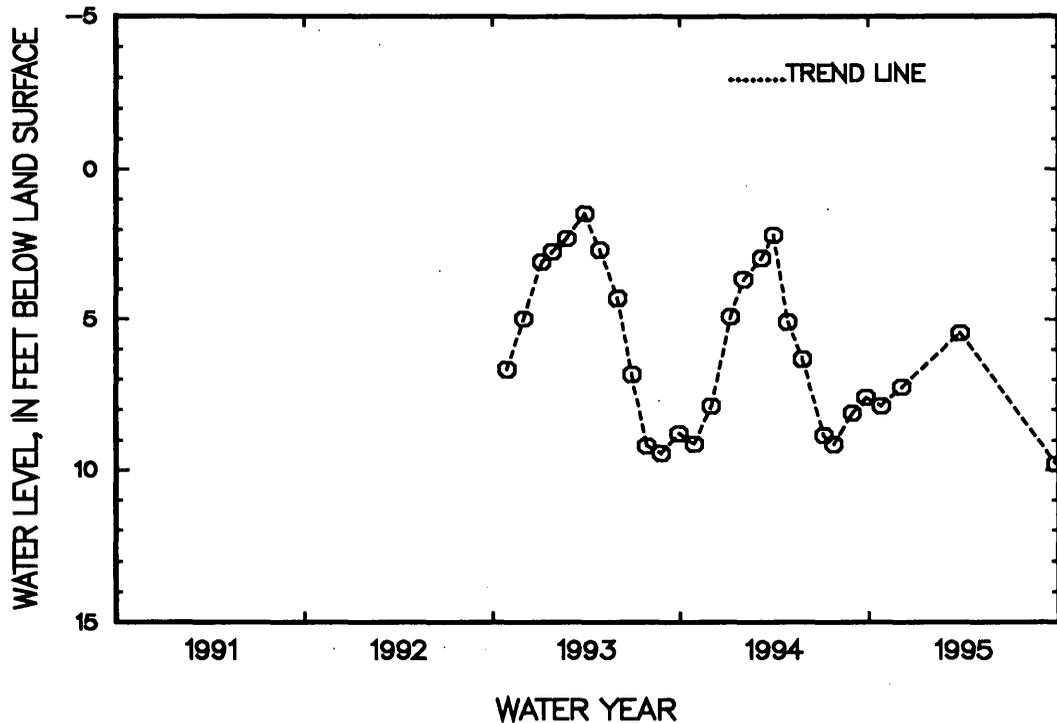
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.48 ft below land-surface datum, Mar. 30, 1993; lowest measured, 9.80 ft below land-surface datum, Sept. 26, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	7.87	DEC 05	7.25	MAR 27	5.45	SEP 26	9.80

WATER YEAR 1995 HIGHEST 5.45 MAR 27, 1995 LOWEST 9.80 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381937077024801. Local number, 54Q 51.

LOCATION.--Lat 38°19'37", long 77°02'48", Hydrologic Unit 02070011, 75 ft west of Gilmore Road, 0.3 mi south of intersection of Dahlgren Road and Gilmore Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 5 ft, 15 to 15.5 ft, depth 15.5 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 7.95 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum.

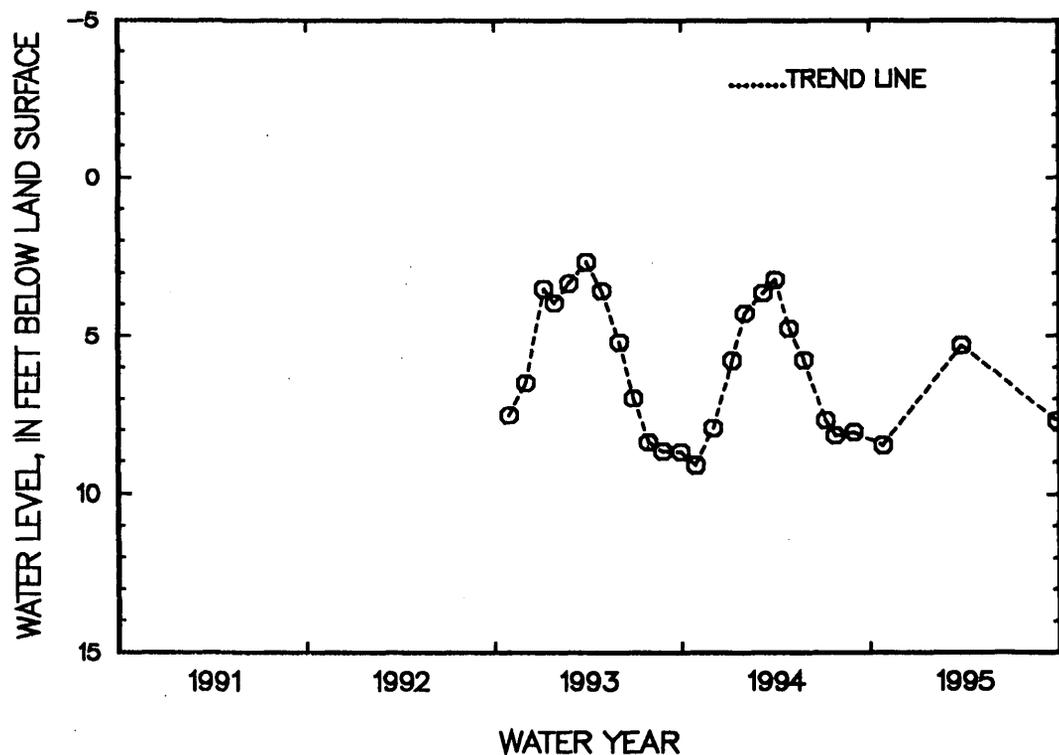
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.66 ft below land-surface datum, Mar. 30, 1993; lowest measured, 9.10 ft below land-surface datum, Oct. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	8.48	MAR 27	5.30	SEP 26	7.72

WATER YEAR 1995 HIGHEST 5.30 MAR 27, 1995 LOWEST 8.48 OCT 26, 1994



KING GEORGE COUNTY

381954077024901. Local number, 54Q 52.

LOCATION.--Lat 38°19'54", long 77°02'49", Hydrologic Unit 02070011, 200 ft northeast of Dahlgren Road behind northwest corner of U.S. Post Office, 300 ft northwest of intersection of Dahlgren Road and Gilmore Road, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 7 ft, 12 to 14.5 ft, depth 14.5 ft, screened 7 to 12 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1994, monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 18.48 ft above sea level. Measuring point: Top of casing, 2.4 ft above land-surface datum.

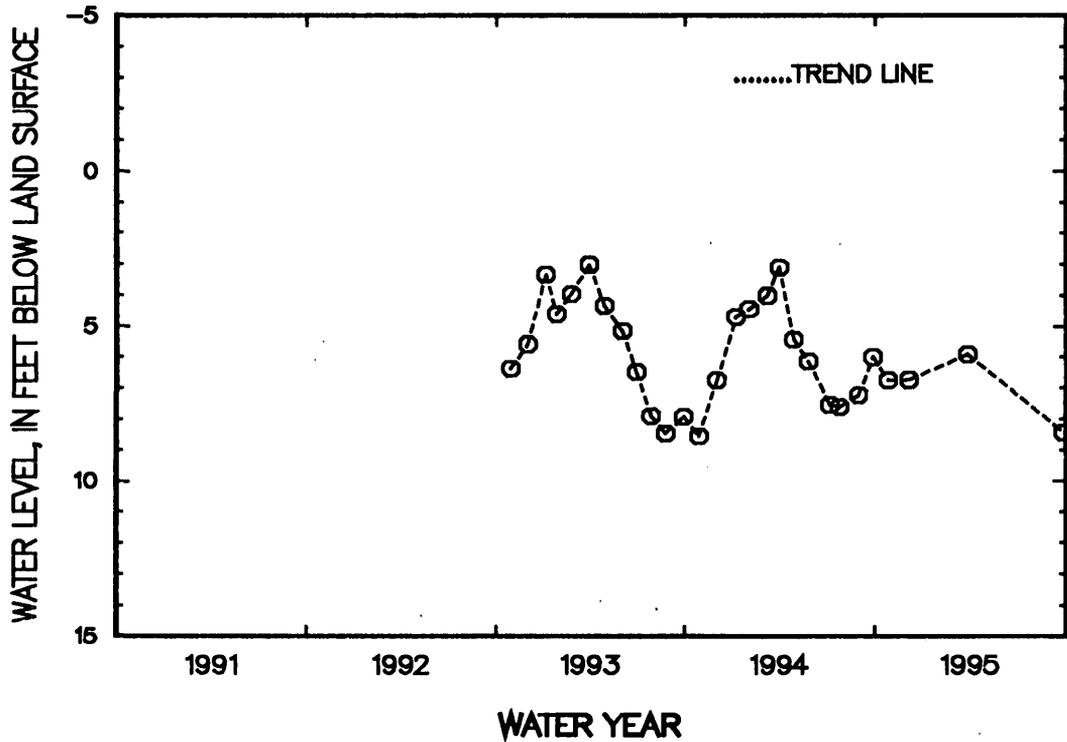
PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.01 ft below land-surface datum, Mar. 30, 1993; lowest measured, 8.55 ft below land-surface datum, Oct. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	6.75	DEC 05	6.73	MAR 27	5.91	SEP 26	8.43

WATER YEAR 1995 HIGHEST 5.91 MAR 27, 1995 LOWEST 8.43 SEP 26, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382113077024101. Local number, 54Q 53.

LOCATION.--Lat 38°21'13", long 77°02'41". Hydrologic Unit 02070011, 300 ft southeast of U.S. Highway 301, 0.2 mi northeast of intersection of Bennion Road and Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12.5 ft, 17.5 to 20 ft, depth 20 ft, screened 12.5 to 17.5 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. May 28, 1993, to Sept. 25, 1994, digital recorder--60-minute punch. Prior to May 28, 1993, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8.85 ft above sea level. Measuring point: Top of casing, 2.05 ft above land-surface datum. May 28, 1993, to Sept. 25, 1994, measuring point was top of recoder shelf, 2.51 ft above land-surface datum.

PERIOD OF RECORD.--October 1992 to current year.

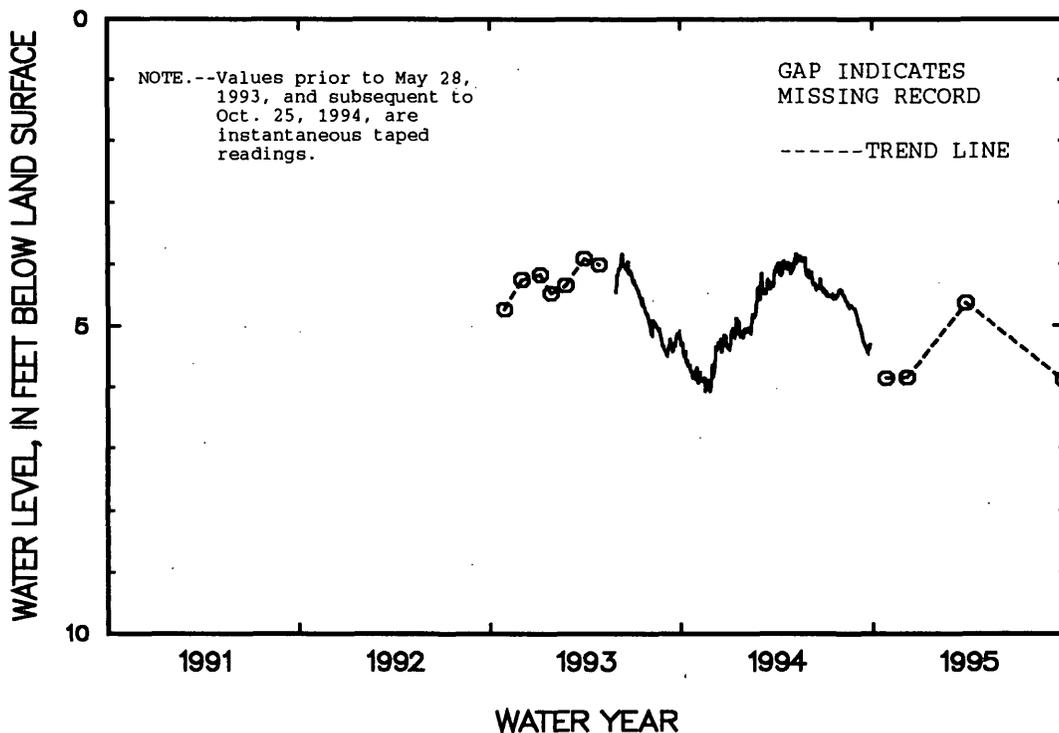
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.79 ft below land-surface datum, May 8-10, 12, 1994; lowest recorded, 6.09 ft below land-surface datum, Nov. 16, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 26	5.86	DEC 05	5.85	MAR 27	4.63	SEP 26	5.89

WATER YEAR 1995 HIGHEST 4.63 MAR 27, 1995 LOWEST 5.89 SEP 26, 1995.

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

KING GEORGE COUNTY

381737077024602. Local number, 54Q 56.

LOCATION.--Lat 38°17'37", long 77°02'46", Hydrologic Unit 02070011, 300 ft northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 22.2 ft, 22.2 to 24.7 ft, depth 24.7 ft, screened 12.2 to 22.2 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 24.46 ft above sea level. Measuring point: Top of recorder shelf, 2.3 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1994 to current year.

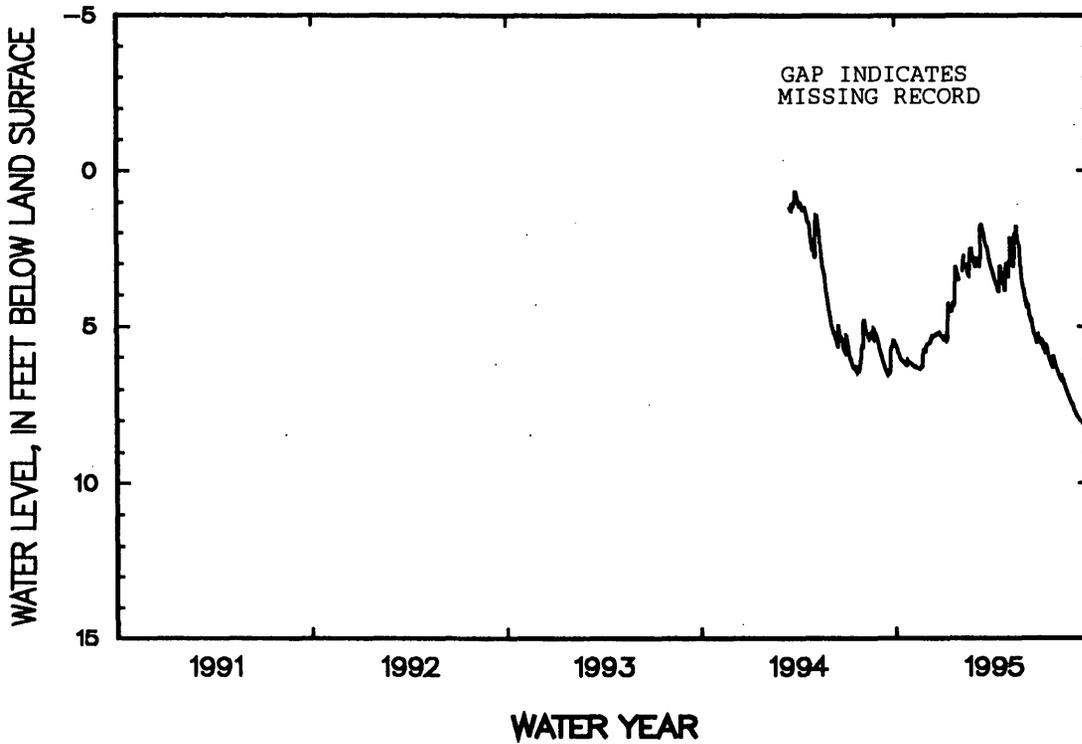
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.50 ft below land-surface datum, Mar. 29, 1994; lowest recorded, 8.09 ft below land-surface datum, Sept. 15-17, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.73	6.22	5.52	5.47	2.74	3.05	3.57	2.35	4.38	5.68	6.68	7.85
10	5.96	6.29	5.32	4.42	3.08	1.79	3.87	3.11	4.73	5.64	6.72	7.98
15	6.05	6.32	5.29	4.51	3.40	2.00	3.13	1.78	5.11	6.01	6.99	8.09
20	6.15	6.25	5.27	4.25	2.53	2.47	3.60	2.53	5.45	6.27	7.21	7.97
25	6.08	5.73	5.31	3.33	2.99	2.88	2.99	3.59	5.38	6.09	7.44	7.93
EOM	6.14	5.56	5.43	---	3.10	3.24	3.42	4.13	5.58	6.45	7.67	8.03

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1.53 MAY 15, 1995
LOWEST INSTANTANEOUS 8.09 SEP 15-17, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

381746077020001. Local number, 54Q 57.

LOCATION.--Lat 38°17'46", long 77°02'00", Hydrologic Unit 02070011, 0.7 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Nanjemoy-Marlboro confining unit of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 48.4 ft, 58.4 to 63.9 ft, depth 63.9 ft, screened 48.4 to 58.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17.77 ft above sea level. Measuring point: Top of casing, 2.29 ft above land-surface datum.

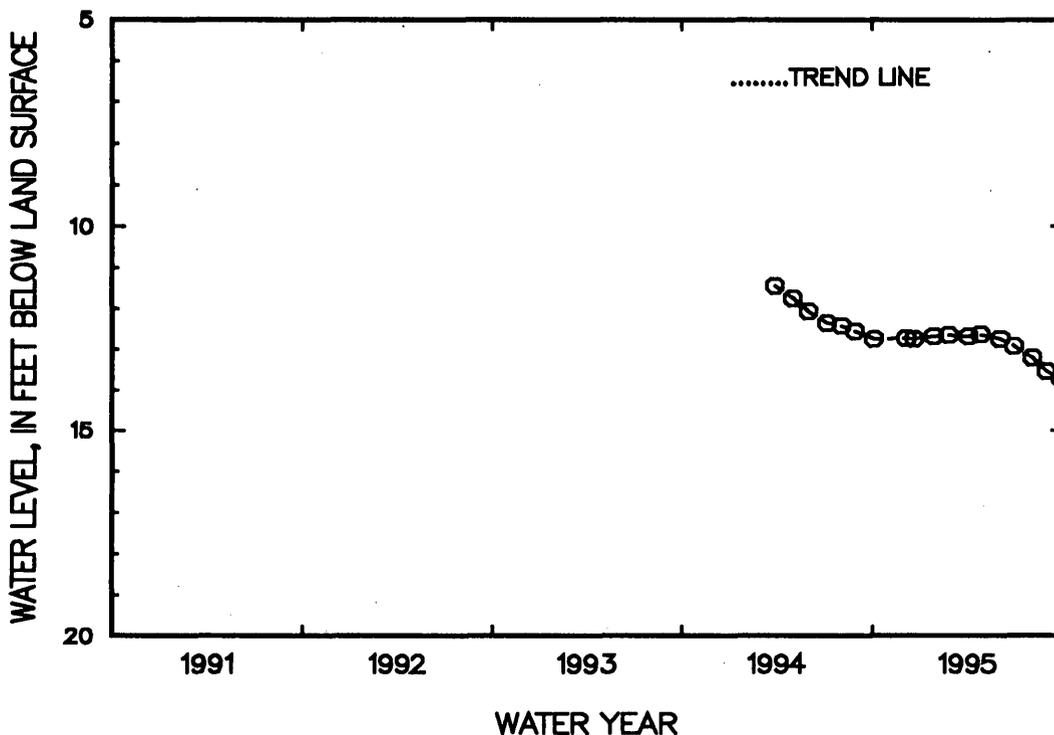
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.44 ft below land-surface datum, Mar. 29, 1994; lowest measured, 13.73 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	12.74	DEC 20	12.74	FEB 24	12.65	APR 26	12.64	JUN 28	12.92	AUG 29	13.54
DEC 05	12.73	JAN 27	12.68	APR 03	12.68	JUN 02	12.74	AUG 02	13.20	SEP 25	13.73

WATER YEAR 1995 HIGHEST 12.64 APR 26, 1995 LOWEST 13.73 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381746077020002. Local number, 54Q 58.

LOCATION.--Lat 38°17'46", long 77°02'00", Hydrologic Unit 02070011, 0.7 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.3 ft, 14.3 to 16.8 ft, depth 16.8 ft, screened 9.3 to 14.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17.89 ft above sea level. Measuring point: Top of casing, 2.29 ft above land-surface datum.

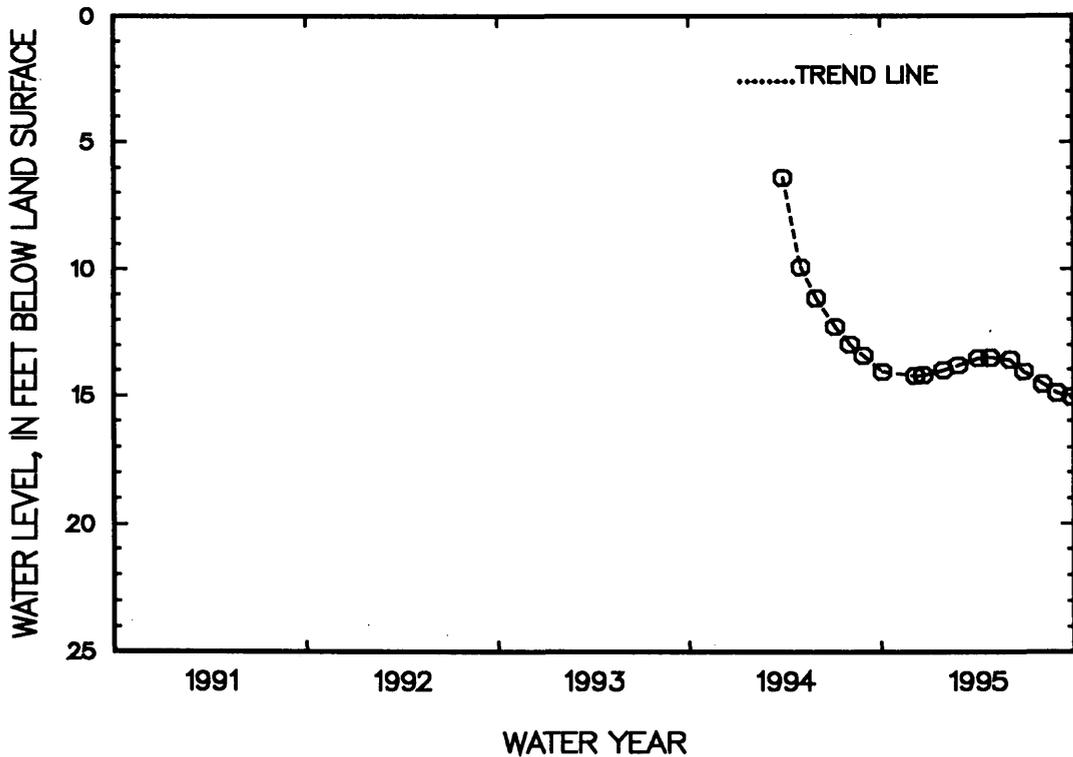
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.40 ft below land-surface datum, Mar. 29, 1994; lowest measured, 15.09 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	14.07	DEC 20	14.21	FEB 24	13.81	APR 26	13.51	JUN 28	14.06	AUG 29	14.93
DEC 05	14.24	JAN 27	14.01	APR 03	13.53	JUN 02	13.59	AUG 02	14.57	SEP 25	15.09

WATER YEAR 1995 HIGHEST 13.51 APR 26, 1995 LOWEST 15.09 SEP 25, 1995



KING GEORGE COUNTY

381758077023001. Local number, 54Q 63.

LOCATION.--Lat 38°17'58", long 77°02'30", Hydrologic Unit 02070011, 0.5 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Nanjemoy-Marlboro confining unit of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 49.7 ft, 59.7 to 62.2 ft, depth 62.2 ft, screened 49.7 to 59.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 22.42 ft above sea level. Measuring point: Top of casing, 0.05 ft below land-surface datum.

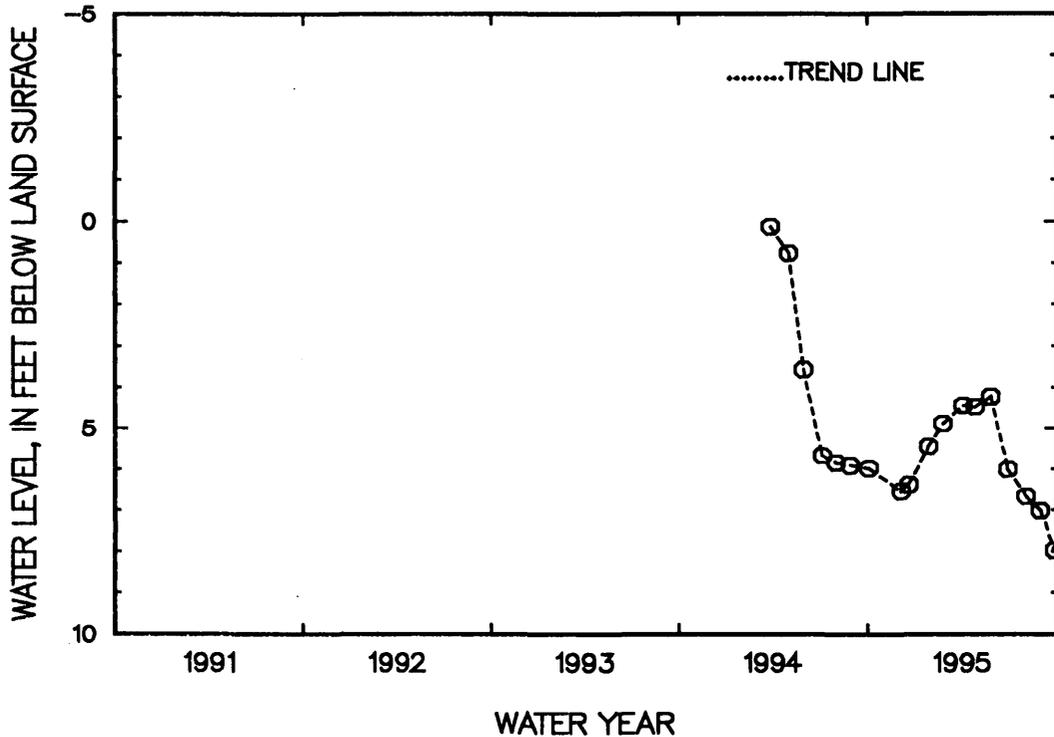
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.12 ft below land-surface datum, Mar. 29, 1994; lowest measured, 7.99 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	5.98	DEC 20	6.38	FEB 24	4.88	APR 26	4.48	JUN 28	6.01	AUG 29	7.02
DEC 05	6.55	JAN 27	5.44	APR 03	4.44	MAY 26	4.23	AUG 02	6.67	SEP 25	7.99

WATER YEAR 1995 HIGHEST 4.23 MAY 26, 1995 LOWEST 7.99 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381758077023002. Local number, 54Q 64.

LOCATION.--Lat 38°17'58", long 77°02'30", Hydrologic Unit 02070011, 0.5 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 2.8 ft, 12.8 to 13.3 ft, depth 13.3 ft, screened 2.8 to 12.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 22.2 ft above sea level. Measuring point: Top of casing, 0.16 ft below land-surface datum.

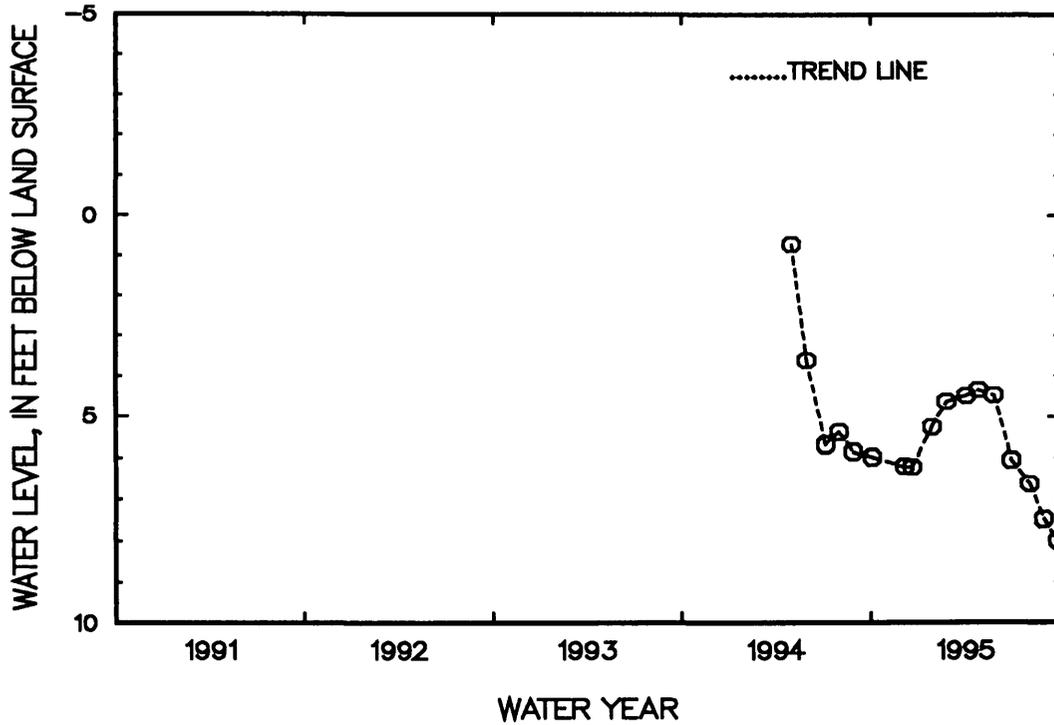
PERIOD OF RECORD.--May 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.72 ft below land-surface datum, May 2, 1994; lowest measured, 8.00 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	5.98	DEC 20	6.21	FEB 24	4.64	APR 26	4.35	JUN 28	6.05	AUG 29	7.48
DEC 05	6.20	JAN 27	5.26	APR 03	4.49	MAY 26	4.48	AUG 02	6.63	SEP 25	8.00

WATER YEAR 1995 HIGHEST 4.35 APR 26, 1995 LOWEST 8.00 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381835077015602. Local number, 54Q 66.

LOCATION.--Lat 38°18'35", long 77°01'56", Hydrologic Unit 02070011, 0.2 mi southwest of Baber Point, 1.4 mi northeast of the main gage at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 12.2 ft, 17.2 to 19.7 ft, depth 19.7 ft, screened 12.2 to 17.2 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 14.05 ft above sea level. Measuring point: Top of recorder shelf, 2.5 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1994 to current year.

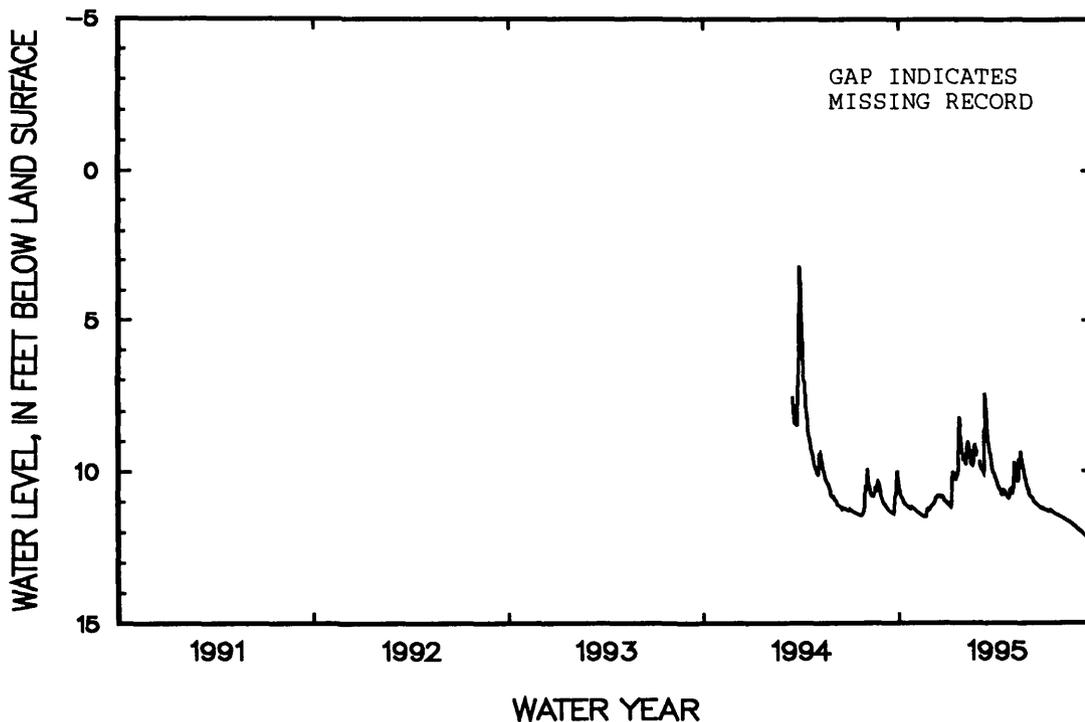
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.76 ft below land-surface datum, Mar. 29, 1994; lowest recorded, 12.20 ft below land-surface datum, Sept. 21, 22, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.77	11.33	11.08	11.15	9.12	9.94	10.56	9.98	10.84	11.30	11.59	12.01
10	10.99	11.41	10.84	10.06	9.32	7.45	10.76	10.31	10.99	11.28	11.65	12.09
15	11.11	11.47	10.81	10.26	9.82	8.72	10.64	9.34	11.10	11.37	11.71	12.18
20	11.18	11.49	10.84	9.86	9.09	9.40	10.81	9.90	11.17	11.42	11.77	12.19
25	11.17	11.23	10.96	9.03	---	10.03	10.60	10.37	11.20	11.46	11.84	12.15
EOM	11.25	11.16	11.07	9.64	9.68	10.29	10.71	10.72	11.26	11.52	11.93	12.17

WATER YEAR 1995
 HIGHEST INSTANTANEOUS 7.35 MAR 10, 1995
 LOWEST INSTANTANEOUS 12.20 SEP 21, 22, 1995

DAILY LOW-WATER LEVELS



KING GEORGE COUNTY

381829077040101. Local number, 54Q 67.

LOCATION.--Lat 38°18'29", long 77°04'01", Hydrologic Unit 02070011, 1.5 mi northwest of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Nanjemoy-Marlboro confining unit of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 48.2 ft, 58.2 to 68.7 ft, depth 68.7 ft, screened 48.2 to 58.2 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12.61 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for water-quality sampling in July 1994. Reason for high-water level in May 1995 unknown.

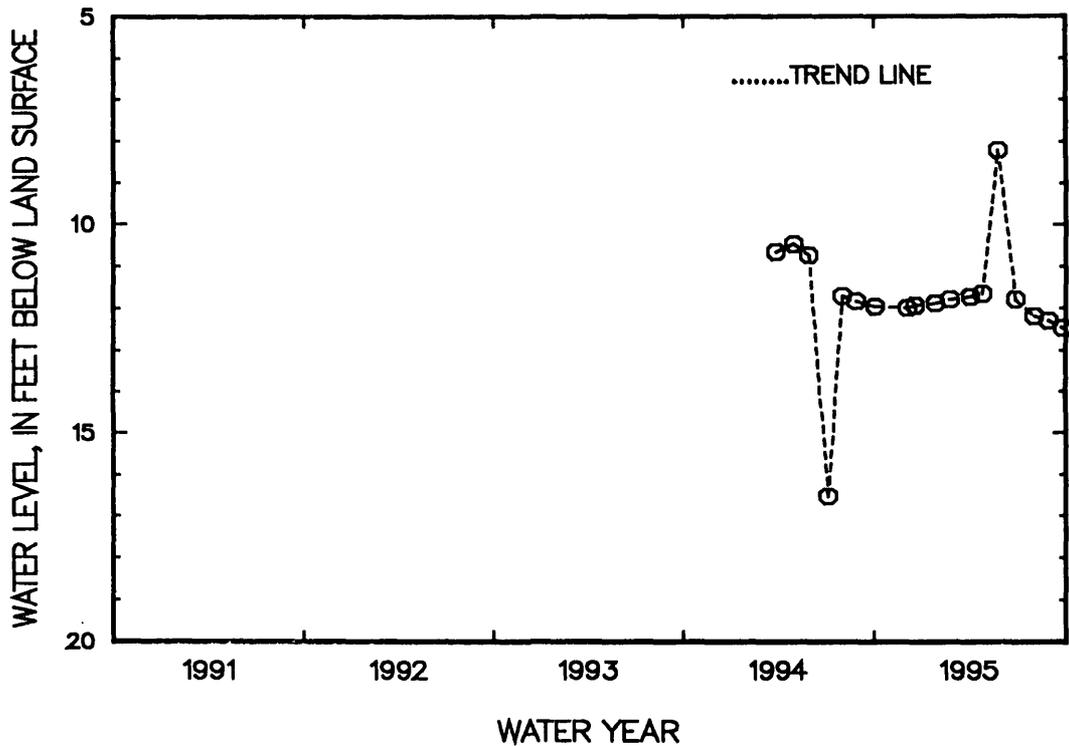
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.20 ft below land-surface datum, May 26, 1995; lowest measured from natural causes, 12.48 ft below land-surface datum, Sept. 25, 1995; lowest measured, 16.52 ft (caused by pumpage for water-quality sampling) below land-surface datum, July 6, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	11.95	DEC 20	11.93	FEB 24	11.78	APR 26	11.65	JUN 28	11.79	AUG 29	12.30
DEC 05	11.99	JAN 27	11.88	APR 03	11.72	MAY 26	8.20	AUG 02	12.19	SEP 25	12.48

WATER YEAR 1995 HIGHEST 8.20 MAY 26, 1995 LOWEST 12.48 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381829077040102. Local number, 54Q 68.

LOCATION.--Lat 38°18'29", long 77°04'01", Hydrologic Unit 02070011, 1.5 mi northwest of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.7 ft, 19.7 to 20.2 ft, depth 20.2 ft, screened 9.7 to 19.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12.45 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

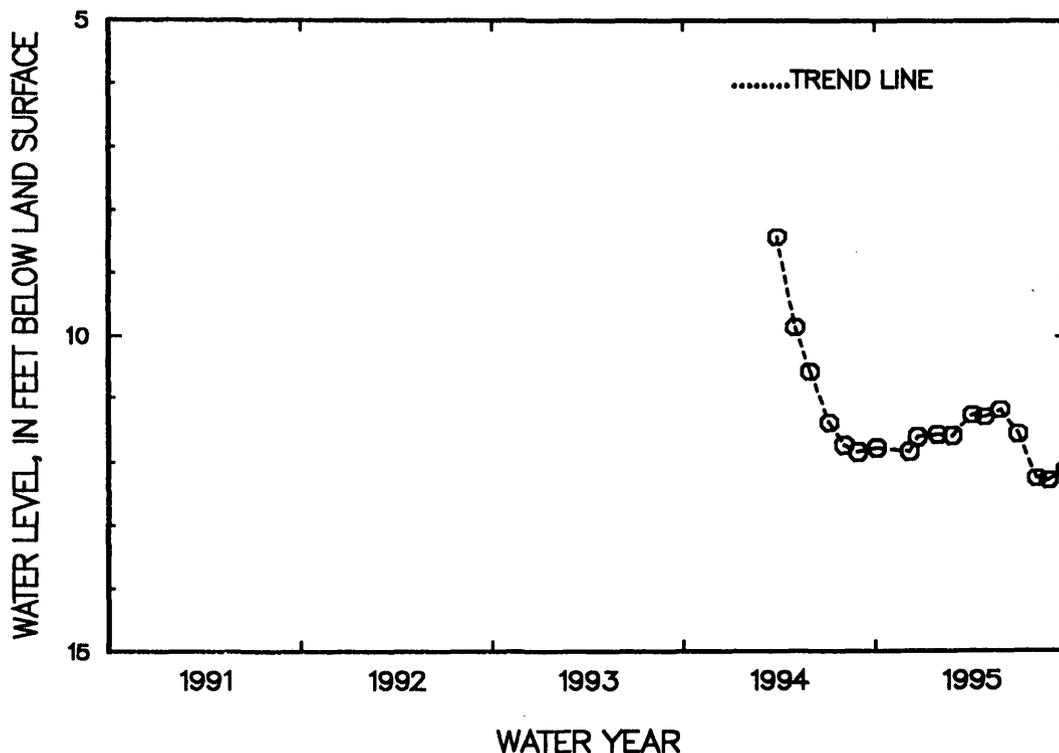
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.43 ft below land-surface datum, Mar. 29, 1994; lowest measured, 12.28 ft below land-surface datum, Aug. 24, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	11.78	DEC 20	11.62	FEB 24	11.60	APR 26	11.30	JUN 28	11.57	AUG 24	12.28
DEC 05	11.83	JAN 27	11.58	APR 03	11.27	MAY 26	11.19	AUG 02	12.25	SEP 25	12.12

WATER YEAR 1995 HIGHEST 11.19 MAY 26, 1995 LOWEST 12.28 AUG 24, 1995



KING GEORGE COUNTY

381830077031801. Local number, 54Q 71.

LOCATION.--Lat 38°18'30", long 77°03'18", Hydrologic Unit 02070011, 0.6 mi south of Howland Point, 1.2 mi northwest of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren.
Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.7 ft, 19.7 to 20.2 ft, depth 20.2 ft, screened 9.7 to 19.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 21.24 ft above sea level. Measuring point: Top of casing, 2.06 ft above land-surface datum.

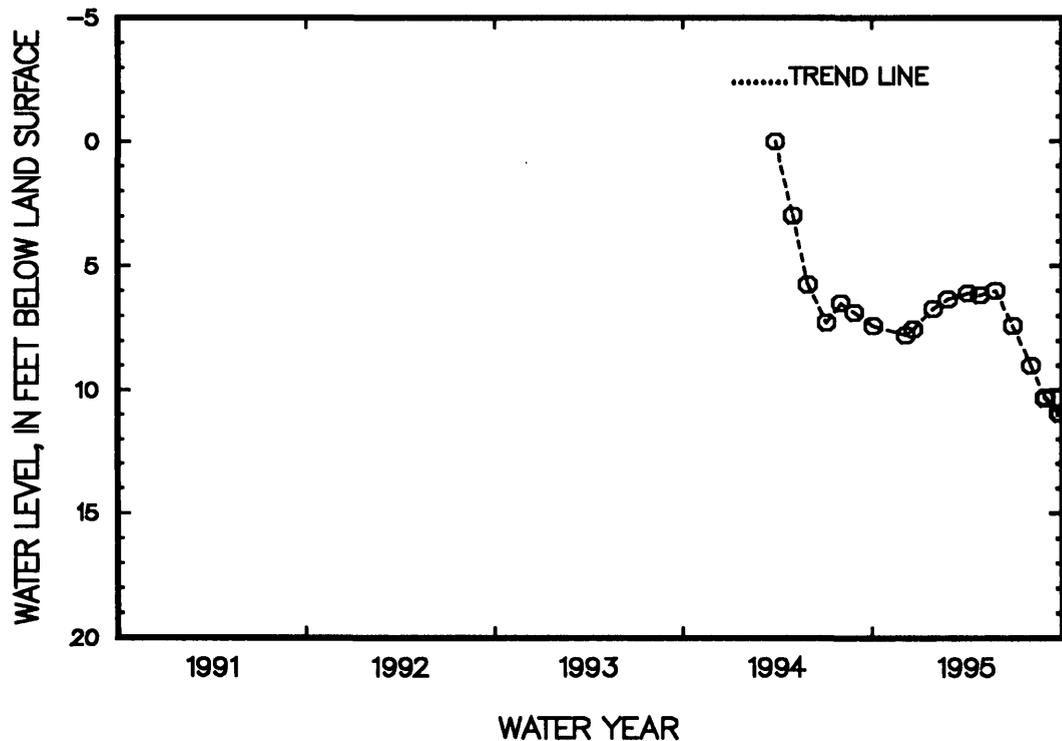
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, at land-surface datum, Mar. 29, 1994; lowest measured, 10.93 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	7.41	DEC 20	7.54	FEB 24	6.34	APR 26	6.17	JUN 28	7.39	AUG 29	10.31
DEC 05	7.77	JAN 27	6.72	APR 03	6.10	MAY 26	5.99	AUG 02	9.01	SEP 25	10.93

WATER YEAR 1995 HIGHEST 5.99 MAY 26, 1995 LOWEST 10.93 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381759077025701. Local number, 54Q 72.

LOCATION.--Lat 38°17'59", long 77°02'57", Hydrologic Unit 02070011, 0.5 mi northwest of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 8.1 ft, 13.1 to 15.6 ft, depth 15.6 ft, screened 8.1 to 13.1 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 24.76 ft above sea level. Measuring point: Top of casing, 1.87 ft above land-surface datum.

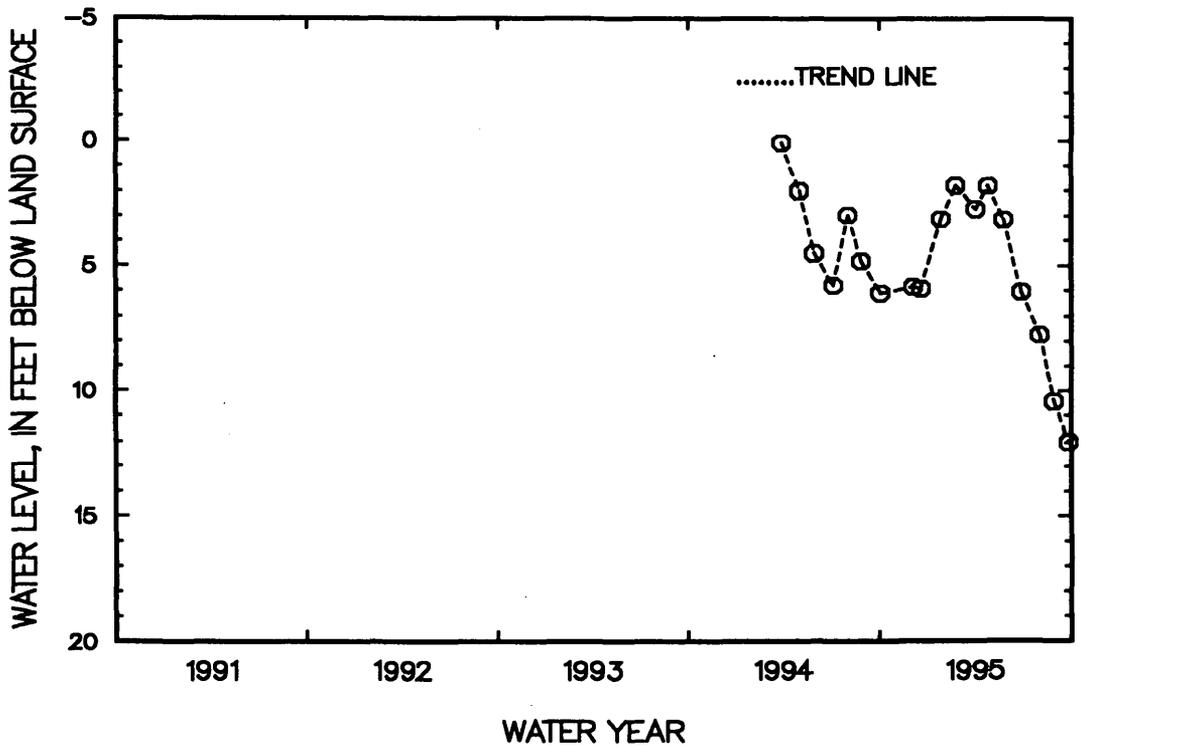
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft below land-surface datum, Mar. 29, 1994; lowest measured, 12.01 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	6.09	DEC 20	5.91	FEB 24	1.79	APR 26	1.81	JUN 28	6.05	AUG 29	10.43
DEC 05	5.84	JAN 27	3.13	APR 03	2.73	MAY 26	3.16	AUG 02	7.75	SEP 25	12.01

WATER YEAR 1995 HIGHEST 1.79 FEB 24, 1995 LOWEST 12.01 SEP 25, 1995



KING GEORGE COUNTY

381725077024501. Local number, 54Q 73.

LOCATION.--Lat 38°17'25", long 77°02'45", Hydrologic Unit 02070011, 0.2 mi south of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 18.8 ft, 28.8 to 31.3 ft, depth 31.3 ft, screened 18.8 to 28.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 25.14 ft above sea level. Measuring point: Top of casing, 2.25 ft above land-surface datum.

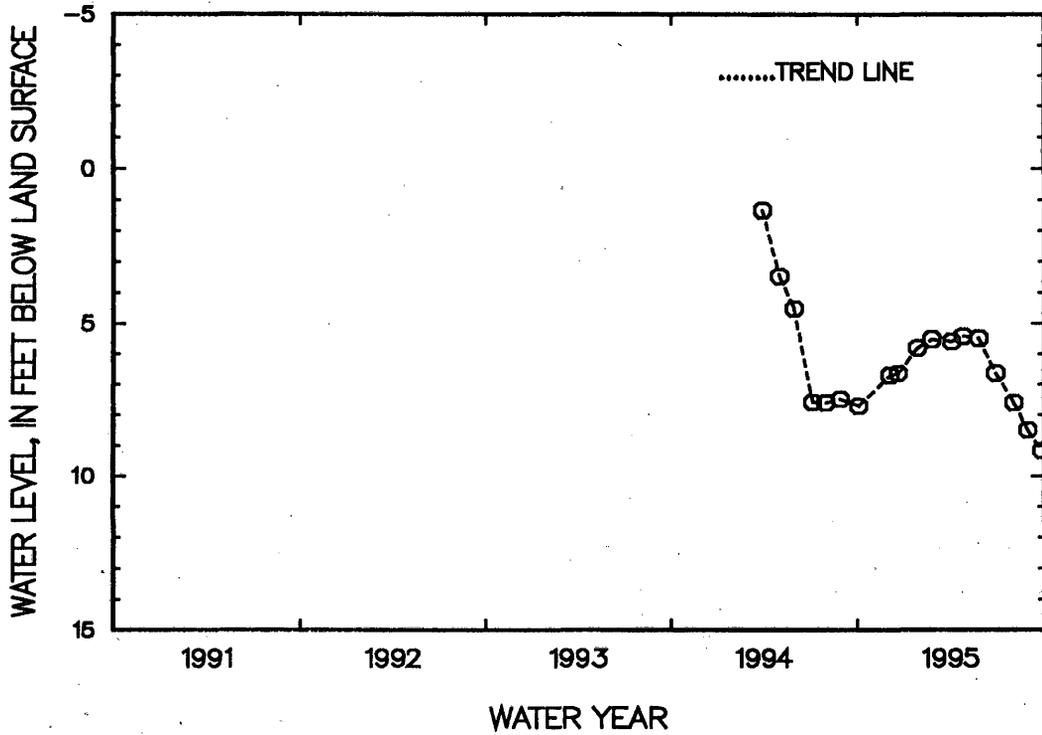
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.34 ft below land-surface datum, Mar. 29, 1994; lowest measured, 9.18 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	7.70	DEC 20	6.64	FEB 24	5.52	APR 26	5.42	JUN 28	6.63	AUG 29	8.51
DEC 05	6.69	JAN 27	5.80	APR 03	5.60	MAY 26	5.49	AUG 02	7.60	SEP 25	9.18

WATER YEAR 1995 HIGHEST 5.42 APR 26, 1995 LOWEST 9.18 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381732077021201. Local number, 54Q 74.

LOCATION.--Lat 38°17'32", long 77°02'12", Hydrologic Unit 02070011, 0.5 mi east of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.0 ft, 19.0 to 19.5 ft, depth 19.5 ft, screened 9.0 to 19.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12.70 ft above sea level. Measuring point: Top of casing, 2.35 ft above land-surface datum.

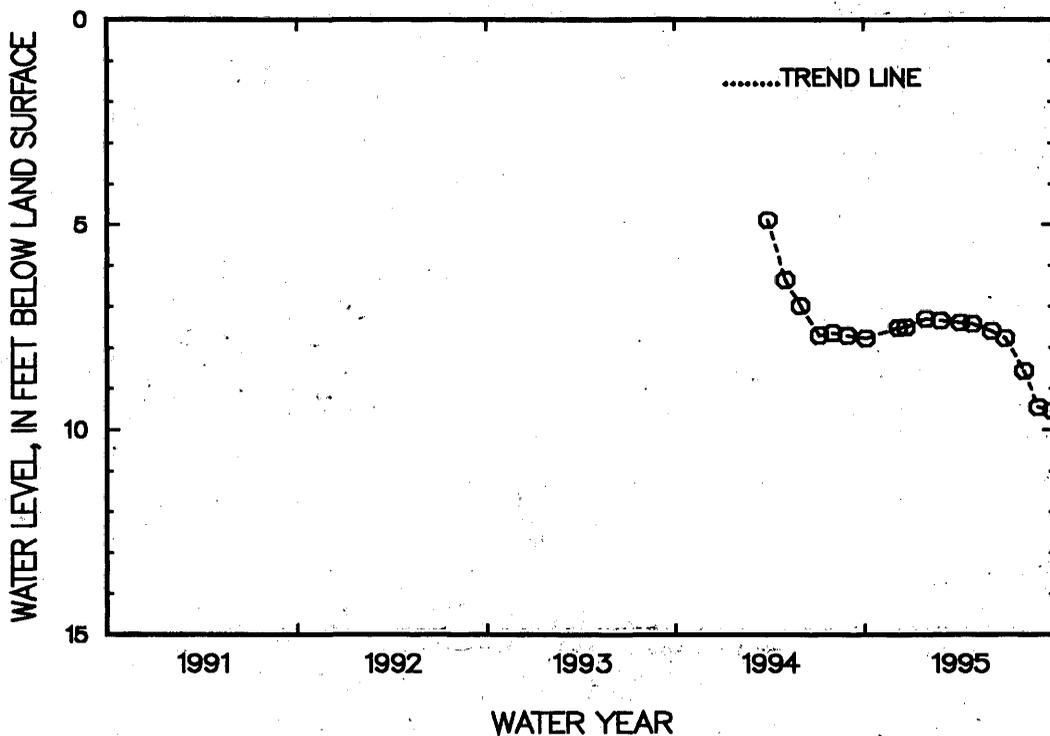
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.88 ft below land-surface datum, Mar. 29, 1994; lowest measured, 9.54 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	7.77	DEC 20	7.50	FEB 24	7.35	APR 26	7.43	JUN 28	7.77	AUG 29	9.45
DEC 05	7.52	JAN 27	7.30	APR 03	7.40	JUN 02	7.60	AUG 02	8.57	SEP 25	9.54

WATER YEAR 1995 HIGHEST 7.30 JAN 27, 1995 LOWEST 9.54 SEP 25, 1995



KING GEORGE COUNTY

381729077021001. Local number, 54Q 75.

LOCATION.--Lat 38°17'29", long 77°02'10", Hydrologic Unit 02070011, along fence line 0.6 mi southeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 20.7 ft, 30.7 to 33.2 ft, depth 33.2 ft, screened 20.7 to 30.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 23.11 ft above sea level. Measuring point: Top of casing, 2.06 ft above land-surface datum.

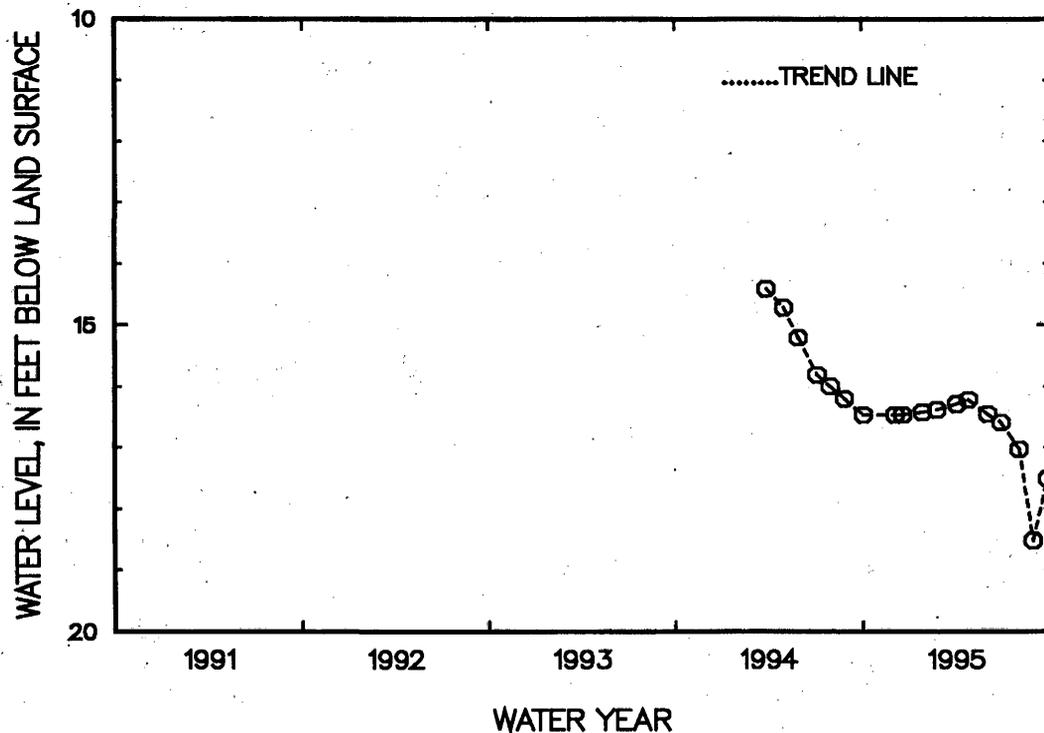
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.41 ft below land-surface datum, Mar. 29, 1994; lowest measured, 18.52 ft below land-surface datum, Aug. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	16.46	DEC 20	16.46	FEB 24	16.38	APR 26	16.22	JUN 28	16.59	AUG 28	18.52
DEC 05	16.46	JAN 27	16.42	APR 03	16.29	JUN 02	16.45	AUG 02	17.03	SEP 25	17.51

WATER YEAR 1995 HIGHEST 16.22 APR 26, 1995 LOWEST 18.52 AUG 28, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381734077014501. Local number, 54Q 76.

LOCATION.--Lat 38°17'34", long 77°01'45", Hydrologic Unit 02070011, along fence line 1.0 mi east of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.1 ft, 19.1 to 19.6 ft, depth 19.6 ft, screened 9.1 to 19.1 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 22.20 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

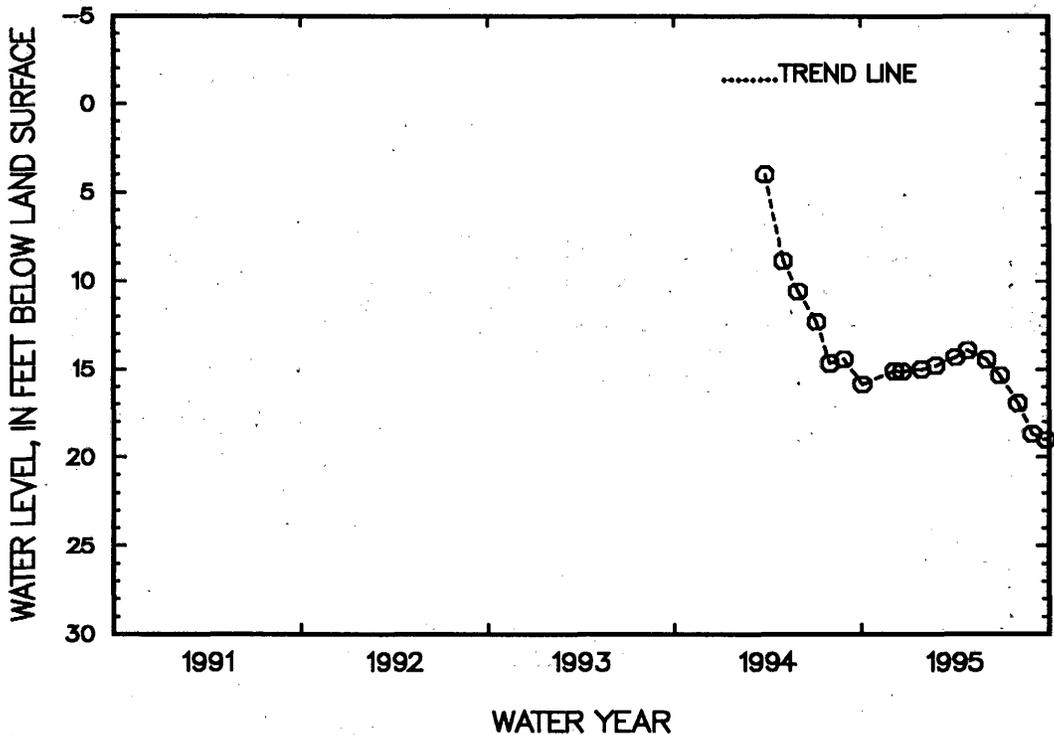
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft below land-surface datum, Mar. 29, 1994; lowest measured, 19.00 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	15.85	DEC 20	15.12	FEB 24	14.79	APR 26	13.94	JUN 28	15.36	AUG 29	18.67
DEC 05	15.11	JAN 27	15.00	APR 03	14.31	JUN 02	14.45	AUG 02	16.94	SEP 25	19.00

WATER YEAR 1995 HIGHEST 13.94 APR 26, 1995 LOWEST 19.00 SEP 25, 1995



KING GEORGE COUNTY

381236077013801. Local number, 54Q 77.

LOCATION.--Lat 38°17'36", long 77°01'38", Hydrologic Unit 02070011, along fence line 1.1 mi east of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 14.7 ft, 24.7 to 25.2 ft, depth 25.2 ft, screened 14.7 to 24.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 21.73 ft above sea level. Measuring point: Top of casing, 2.12 ft above land-surface datum.

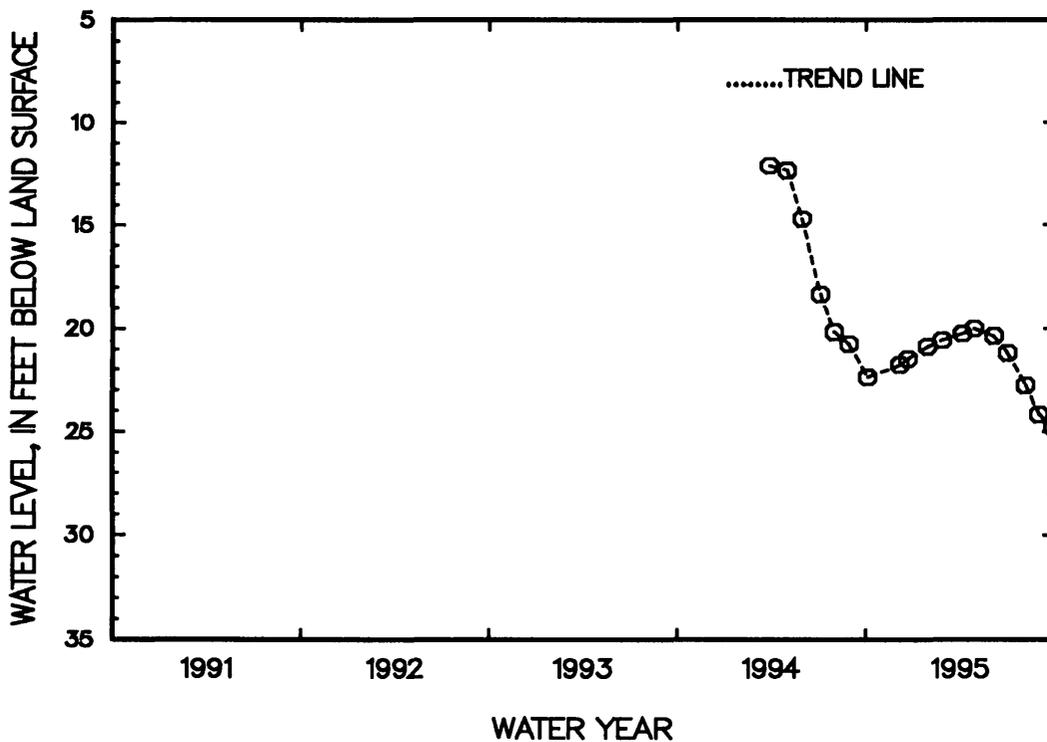
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.10 ft below land-surface datum, Mar. 29, 1994; lowest measured, 24.79 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	22.37	DEC 20	21.47	FEB 24	20.58	APR 26	20.01	JUN 28	21.20	AUG 29	24.15
DEC 05	21.78	JAN 27	20.88	APR 03	20.27	JUN 02	20.37	AUG 02	22.76	SEP 25	24.79

WATER YEAR 1995 HIGHEST 20.01 APR 26, 1995 LOWEST 24.79 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381812077015201. Local number, 54Q 78.

LOCATION.--Lat 38°18'12", long 77°01'52", Hydrologic Unit 02070011, at intersection of two unnamed roads, 1.1 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 7.5 ft, 17.5 to 20.0 ft, depth 20.0 ft, screened 7.5 to 17.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 16.33 ft above sea level. Measuring point: Top of casing, 0.11 ft below land-surface datum.

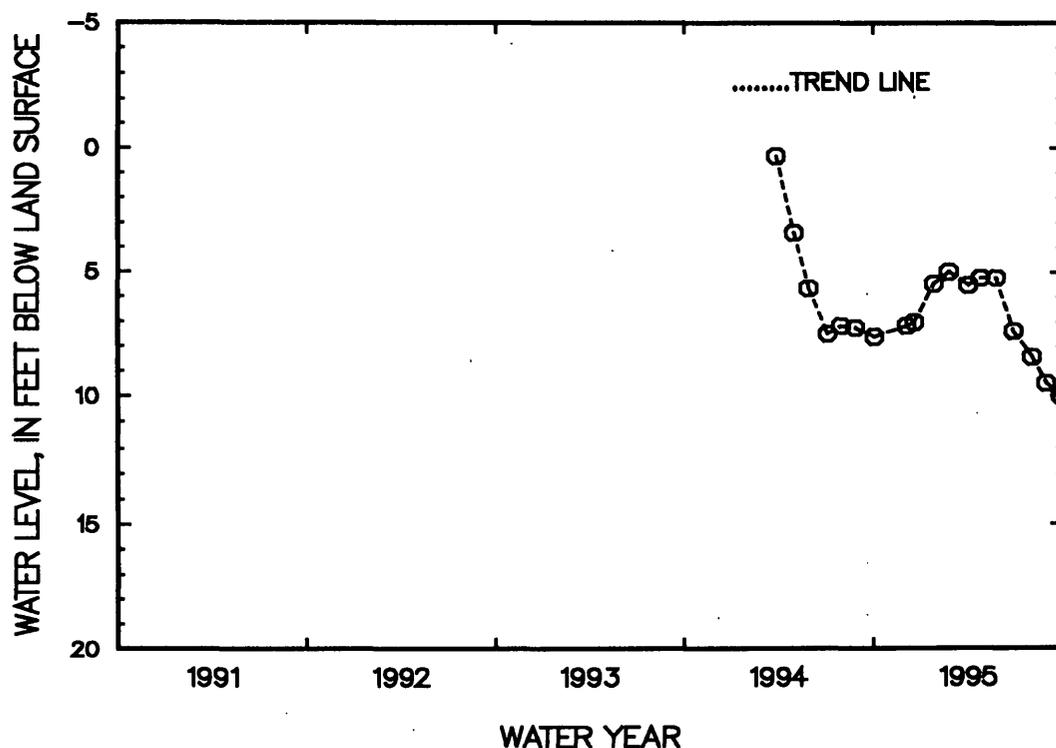
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.30 ft below land-surface datum, Mar. 29, 1994; lowest measured, 9.99 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	7.60	DEC 20	7.01	FEB 24	4.98	APR 26	5.24	JUN 28	7.37	AUG 29	9.47
DEC 05	7.16	JAN 27	5.46	APR 03	5.51	MAY 26	5.24	AUG 02	8.41	SEP 25	9.99

WATER YEAR 1995 HIGHEST 4.98 FEB 24, 1995 LOWEST 9.99 SEP 25, 1995



KING GEORGE COUNTY

381825077021101. Local number, 54Q 79.

LOCATION.--Lat 38°18'25", long 77°02'11", Hydrologic Unit 02070011, 1.1 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 9.1 ft, 14.1 to 16.6 ft, depth 16.6 ft, screened 9.1 to 14.1 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 11.43 ft above sea level. Measuring point: Top of casing, 0.10 ft above land-surface datum.

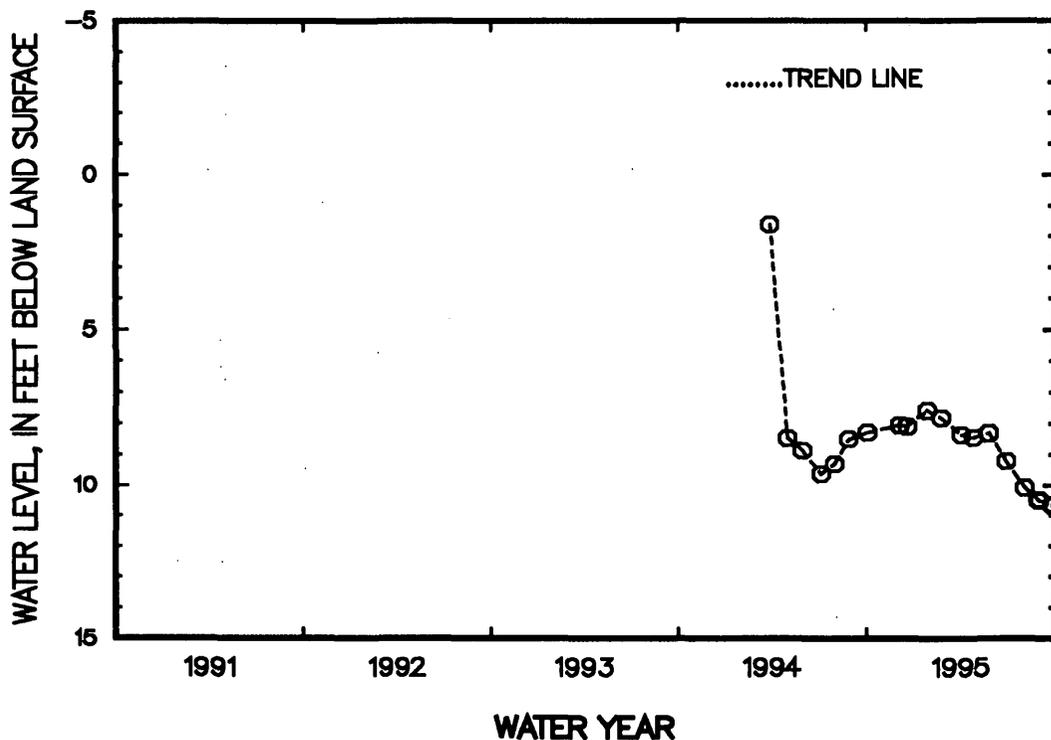
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.62 ft below land-surface datum, Mar. 29, 1994; lowest measured, 10.66 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	8.28	DEC 20	8.08	FEB 24	7.82	APR 26	8.44	JUN 28	9.21	AUG 29	10.50
DEC 05	8.04	JAN 27	7.57	APR 03	8.35	MAY 26	8.30	AUG 02	10.08	SEP 25	10.66

WATER YEAR 1995 HIGHEST 7.57 JAN 27, 1995 LOWEST 10.66 SEP 25, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381817077023101. Local number, 54Q 80.

LOCATION.--Lat 38°18'17", long 77°02'31", Hydrologic Unit 02070011, 0.9 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 7.2 ft, 12.2 to 14.7 ft, depth 14.7 ft, screened 7.2 to 12.2 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 15.20 ft above sea level. Measuring point: Top of casing, 0.05 ft below land-surface datum.

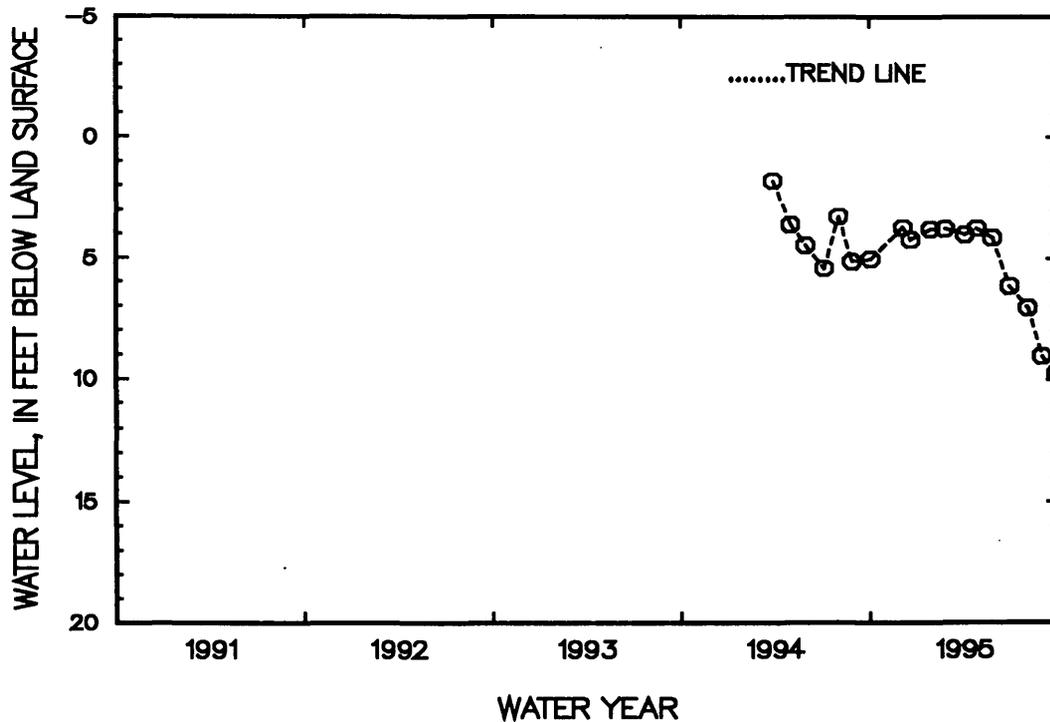
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.79 ft below land-surface datum, Mar. 29, 1994; lowest measured, 9.76 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	5.02	DEC 20	4.21	FEB 24	3.75	APR 26	3.74	JUN 28	6.15	AUG 29	9.03
DEC 05	3.70	JAN 27	3.78	APR 03	3.99	MAY 26	4.13	AUG 02	7.04	SEP 25	9.76

WATER YEAR 1995 HIGHEST 3.70 DEC 05, 1994 LOWEST 9.76 SEP 25, 1995



KING GEORGE COUNTY

381820077024501. Local number, 54Q 81.

LOCATION.--Lat 38°18'20", long 77°02'45", Hydrologic Unit 02070011, 0.9 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.7 ft, 9.7 to 12.2 ft, depth 12.2 ft, screened 4.7 to 9.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 13.21 ft above sea level. Measuring point: Top of casing, 0.31 ft below land-surface datum.

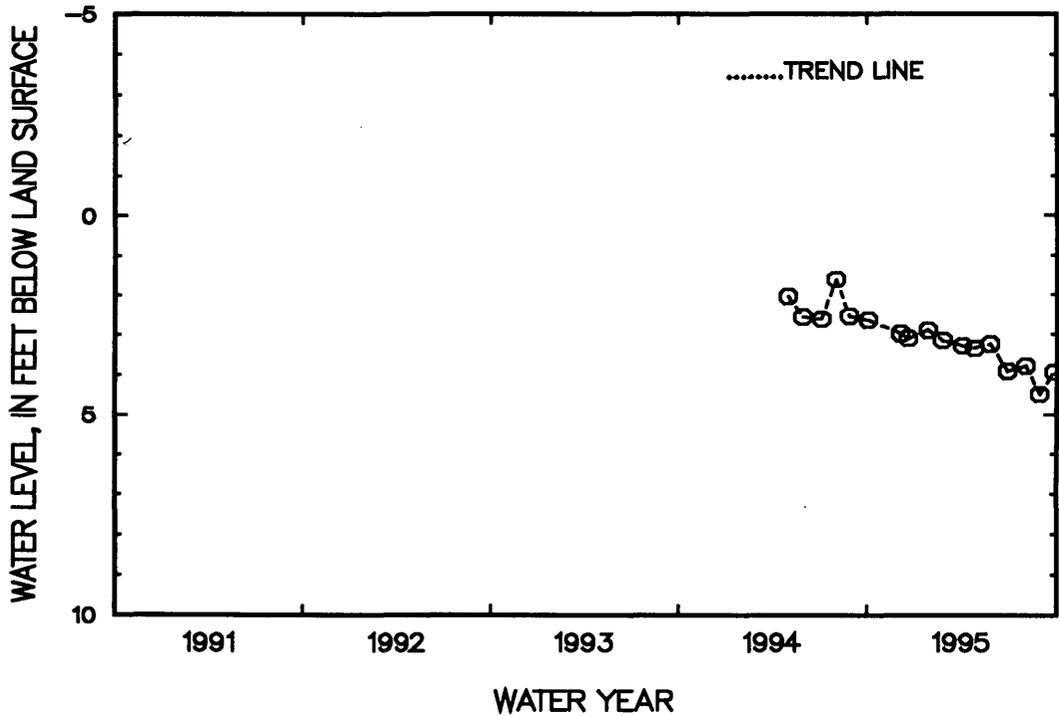
PERIOD OF RECORD.--May 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.61 ft below land-surface datum, Aug. 3, 1994; lowest measured, 4.49 ft below land-surface datum, Aug. 29, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	2.64	DEC 20	3.10	FEB 24	3.15	APR 26	3.34	JUN 28	3.92	AUG 29	4.49
DEC 05	2.98	JAN 27	2.90	APR 03	3.28	MAY 26	3.24	AUG 02	3.79	SEP 25	3.94

WATER YEAR 1995 HIGHEST 2.64 OCT 04, 1994 LOWEST 4.49 AUG 29, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

381830077024501. Local number, 54Q 82.

LOCATION.--Lat 38°18'30", long 77°02'45", Hydrologic Unit 02070011, 1.1 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.8 ft, 19.8 to 22.3 ft, depth 22.3 ft, screened 4.8 to 19.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 11.81 ft above sea level. Measuring point: Top of casing, 0.05 ft below land-surface datum.

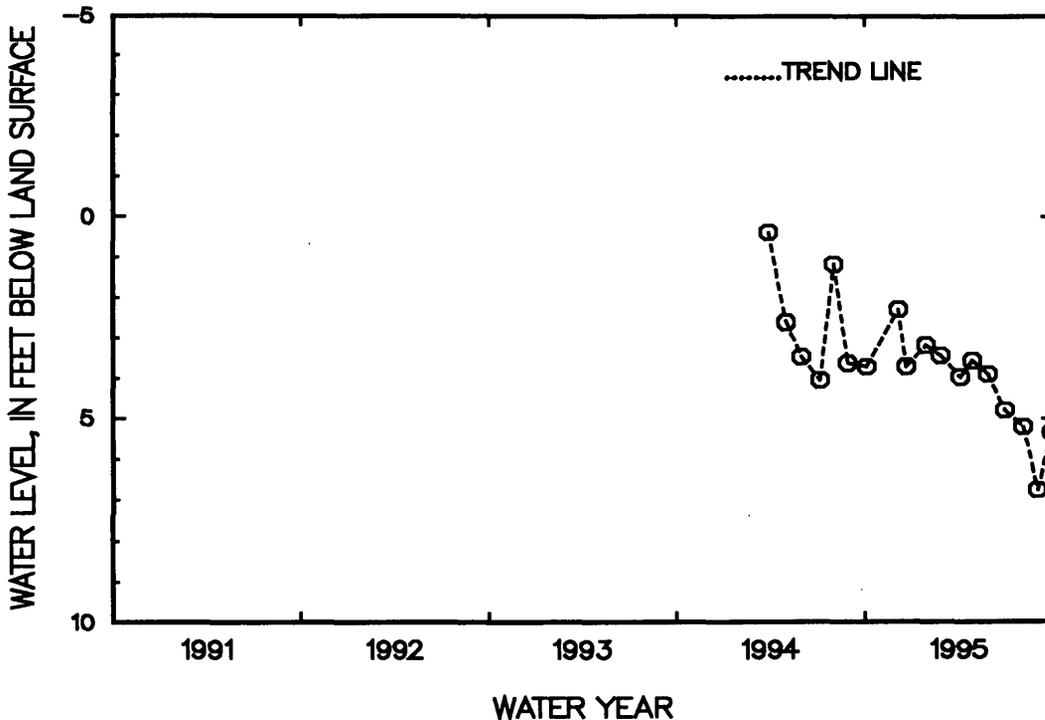
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.38 ft below land-surface datum, Mar. 29, 1994; lowest measured, 6.75 ft below land-surface datum, Aug. 29, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	3.70	DEC 20	3.69	FEB 24	3.42	APR 26	3.55	JUN 28	4.79	AUG 29	6.75
DEC 05	2.28	JAN 27	3.16	APR 03	3.95	MAY 26	3.88	AUG 02	5.21	SEP 25	5.35

WATER YEAR 1995 HIGHEST 2.28 DEC 05, 1994 LOWEST 6.75 AUG 29, 1995



KING GEORGE COUNTY

381804077022001. Local number, 54Q 86.

LOCATION.--Lat 38°18'04", long 77°02'20", Hydrologic Unit 02070011, 0.7 mi northeast of the main gate at Tetotum Flats at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 4.5 ft, 14.5 to 17.0 ft, depth 17.0 ft, screened 4.5 to 14.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17.30 ft above sea level. Measuring point: Top of casing, 0.4 ft below land-surface datum.

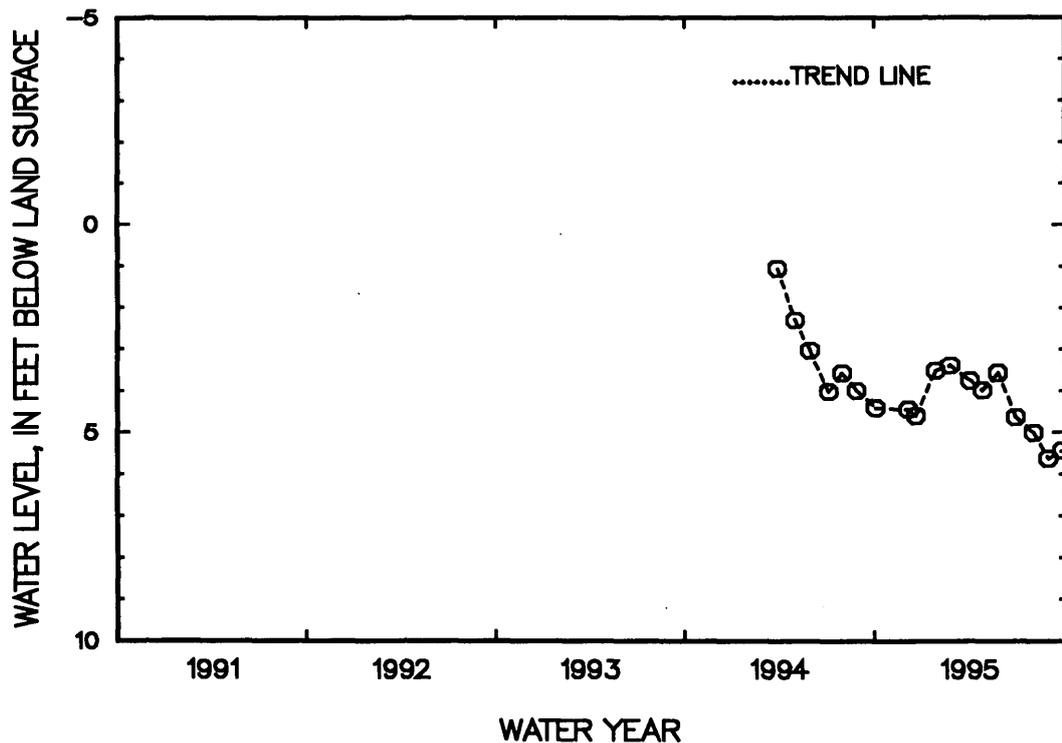
PERIOD OF RECORD.--March 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.06 ft below land-surface datum, Mar. 30, 1994; lowest measured, 5.62 ft below land-surface datum, Aug. 29, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	4.41	DEC 20	4.60	FEB 24	3.39	APR 26	3.99	JUN 28	4.63	AUG 29	5.62
DEC 05	4.45	JAN 27	3.52	APR 03	3.76	MAY 26	3.57	AUG 02	5.01	SEP 25	5.43

WATER YEAR 1995 HIGHEST 3.39 FEB 24, 1995 LOWEST 5.62 AUG 29, 1995



GROUND-WATER LEVELS

KING GEORGE COUNTY

382341077032401. Local number, 54R 2.

LOCATION.--Lat 38°23'41", long 77°03'24", Hydrologic Unit 02070011, 50 ft southeast of steep bank of the Potomac River, 150 ft west of State Highway 687, 1.5 mi west of the intersection of U.S. Highway 301 and State Highway 614, 1.9 mi north of the intersection of State Highways 629 and 687, and near Dahlgren. Owner: E. V. Bruchez.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 210 ft, diameter 2 in. from 210 to 806 ft, depth 806 ft, screened 781 to 801 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 70 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

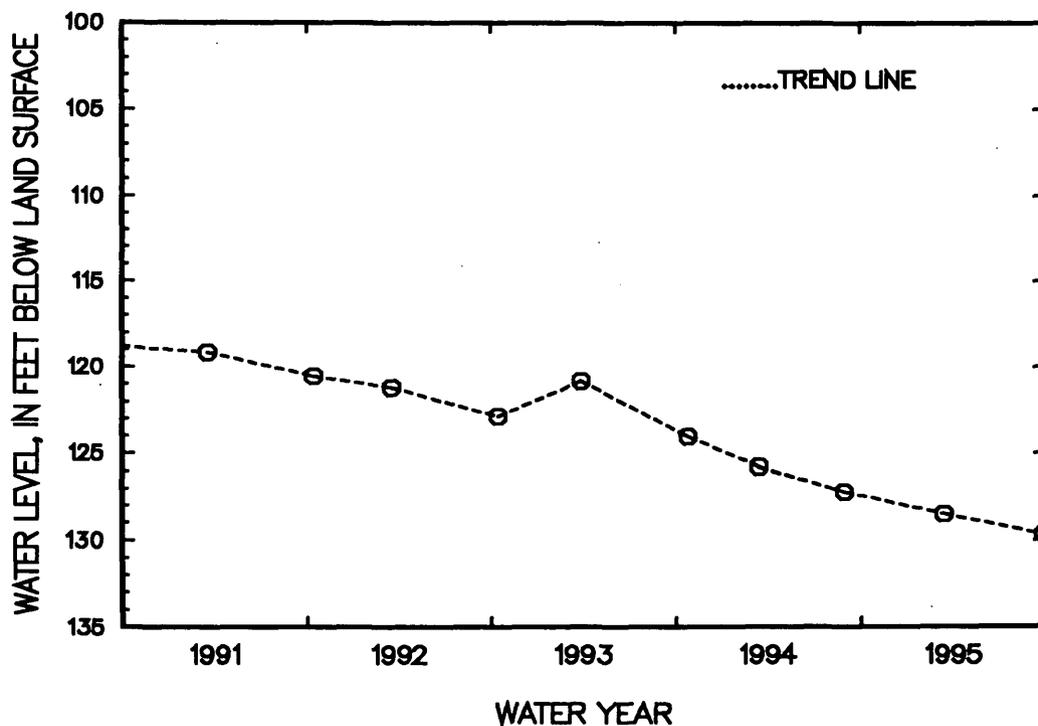
PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.00 ft below land-surface datum, Oct. 15, 1969; lowest measured, 129.69 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	128.50	SEP 25	129.69

WATER YEAR 1995 HIGHEST 128.50 MAR 14, 1995 LOWEST 129.69 SEP 25, 1995



KING WILLIAM COUNTY

373226076481201. Local number, 56J 2.

LOCATION.--Lat 37°32'26", long 76°48'12", Hydrologic Unit 02080106, 0.1 mi west of State Highway 30, 0.3 mi north of State Highway 33, and in West Point. Owner: Chesapeake Corporation.

AQUIFER.--Brightseat-upper and middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused withdrawal water well, diameter 18 in. to 300 ft, diameter 8 in. from 300 to 600 ft, depth 600 ft, screened 390 to 400 ft, 550 to 570 ft, 580 to 600 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 25 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

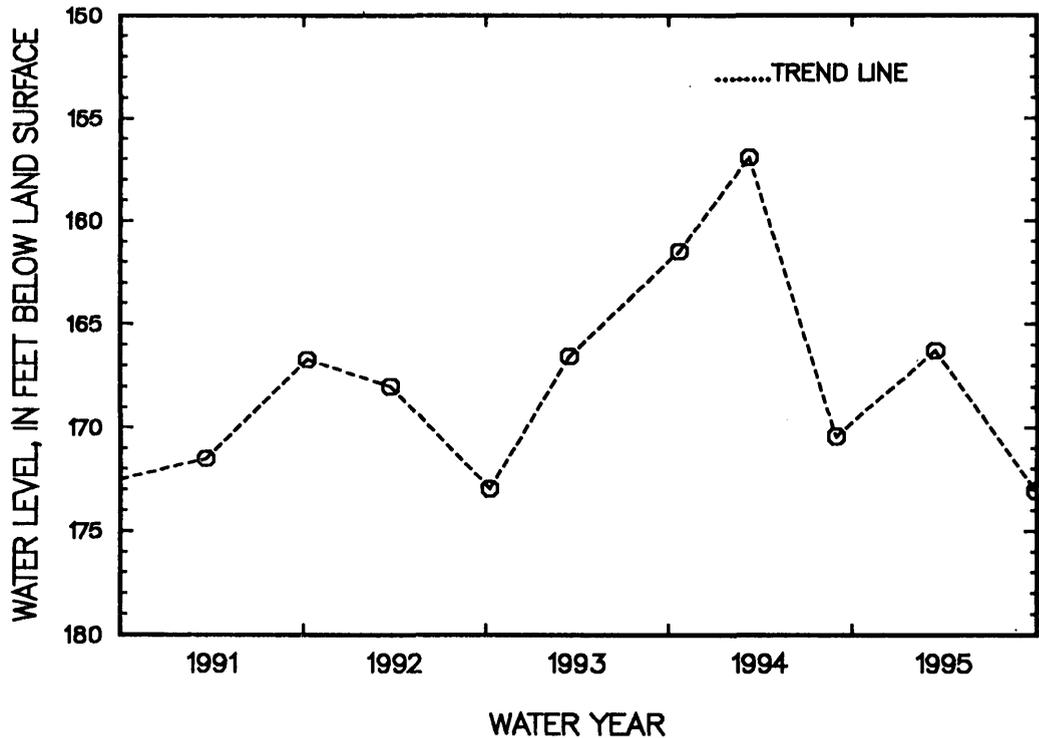
PERIOD OF RECORD.--November 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 141.48 ft below land-surface datum, Feb. 15, 1983; lowest measured, 174.36 ft below land-surface datum, May 25, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	166.29	SEP 28	173.07

WATER YEAR 1995 HIGHEST 166.29 MAR 15, 1995 LOWEST 173.07 SEP 28, 1995



GROUND-WATER LEVELS

KING WILLIAM COUNTY

373459076510201. Local number, 56J 10.

LOCATION.--Lat 37°34'59", long 76°51'02", Hydrologic Unit 02080105, 100 ft northeast of State Highway 30 at the Virginia State Police Office, 4.2 mi west of the intersection of State Highways 30 and 33 in West Point. Owner: Virginia Department of State Police.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 437 ft, screened 417 to 437 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 101 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft below land-surface datum.

REMARKS.--Water level affected by regional drawdown.

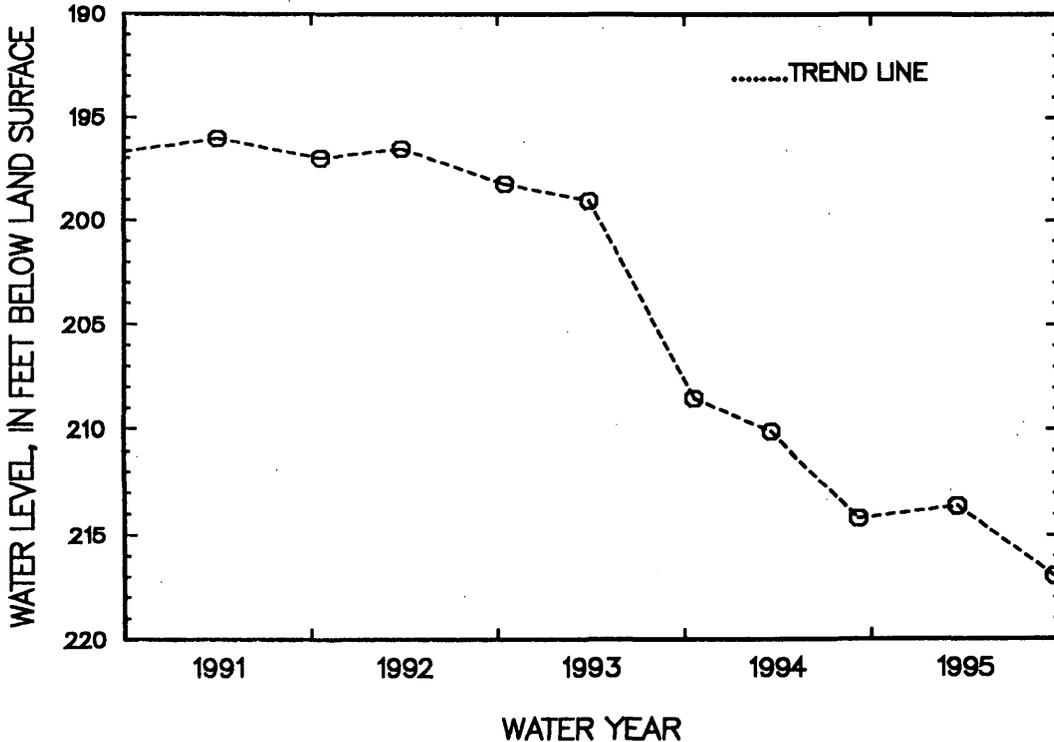
PERIOD OF RECORD.--December 1972, December 1974, October 1983 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 176.00 ft below land-surface datum, Dec. 8, 1972; lowest measured, 216.97 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 17	213.61	SEP 20	216.97

WATER YEAR 1995 HIGHEST 213.61 MAR 17, 1995 LOWEST 216.97 SEP 20, 1995



LANCASTER COUNTY

374249076230101. Local number, 59K 1 SOW 015.

LOCATION.--Lat 37°42'49", long 76°23'01", Hydrologic Unit 02080104, at Lancaster County High School in Kilmarnock.
 Owner: Lancaster County Public Schools.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in. to 163 ft, diameter 2 in. from 163 to 716 ft, depth 716 ft, screened 706 to 716 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 2, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Sept. 30, 1976, to Oct. 1, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1976, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 85 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum prior to July 29, 1991; 0.75 ft above land-surface datum thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

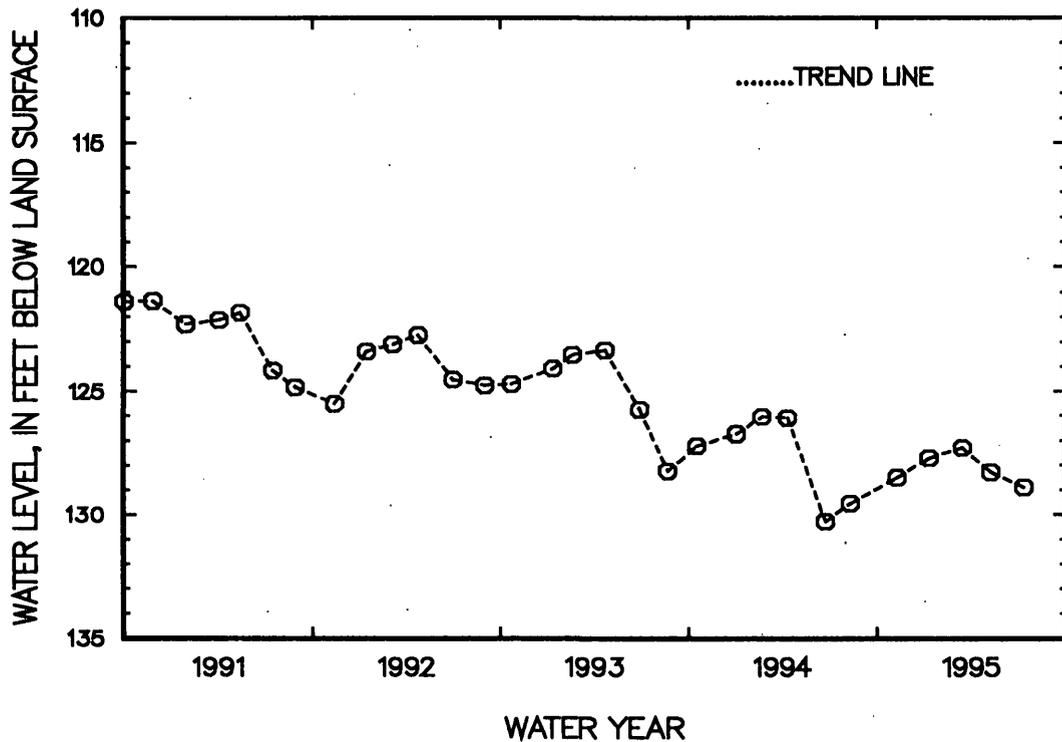
PERIOD OF RECORD.--October 1967 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 95.89 ft below land-surface datum, Feb. 20, 1968; lowest measured, 130.28 ft below land-surface datum, June 24, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	128.51	JAN 10	127.71	MAR 15	127.30	MAY 09	128.29	JUL 11	128.89

WATER YEAR 1995 HIGHEST 127.30 MAR 15, 1995 LOWEST 128.89 JUL 11, 1995



GROUND-WATER LEVELS

LANCASTER COUNTY

374142076272701. Local number, 59K 9.

LOCATION.--Lat 37°41'42", long 76°27'27", Hydrologic Unit 02080104, on the south bank of Moran Creek, 1,000 ft northwest of the intersection of State Highway 630 and a private dirt drive, 0.8 mi west of Wesley Church, 3.0 mi north of Weems, 4.0 mi west of Kilmarnock and the intersection of State Highways 629 and 630, and near Weems. Owner: Fred Hansen.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 147 ft, diameter 2 in. from 147 to 585 ft, depth 585 ft, screened 565 to 580 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

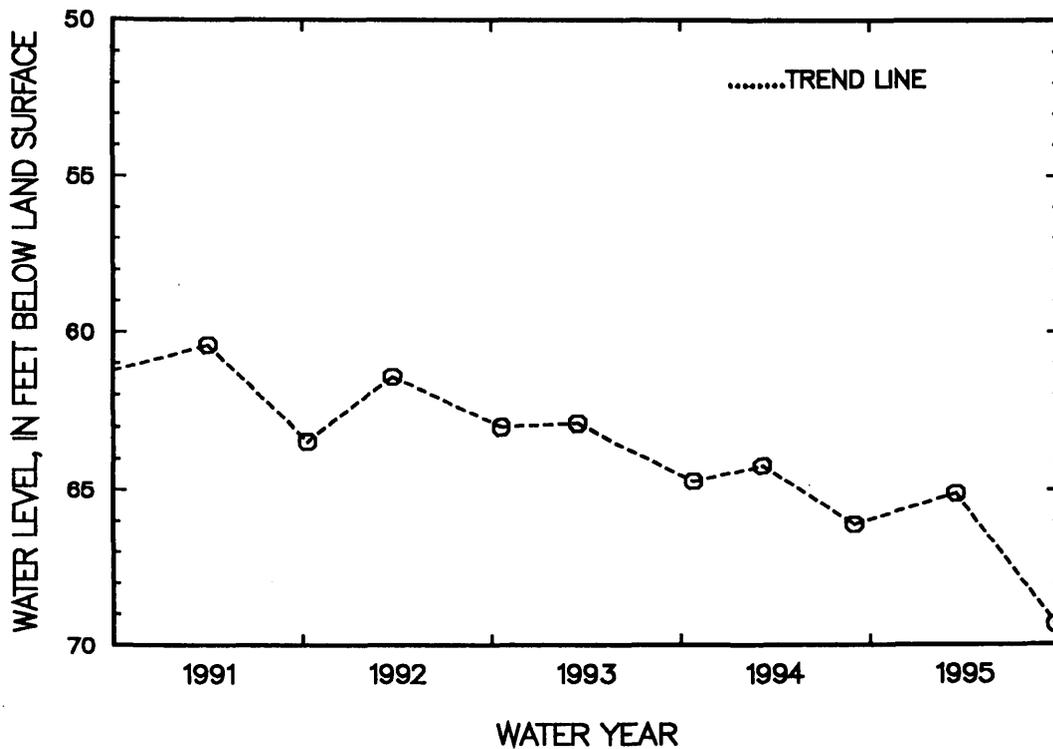
PERIOD OF RECORD.--September 1969 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.00 ft below land-surface datum, Sept. 16, 1969; lowest measured, 69.35 ft below land-surface datum, Sept. 21, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 16	65.11	SEP 21	69.35

WATER YEAR 1995 HIGHEST 65.11 MAR 16, 1995 LOWEST 69.35 SEP 21, 1995



LANCASTER COUNTY

374941076254501. Local number, 59L 3.

LOCATION.--Lat 37°49'41", long 76°25'45", Hydrologic Unit 02080104, 100 ft southwest of State Highway 615 at Browns Store and 450 ft southeast of the intersection of State Highways 610 and 615. Owner: Alpha Water Company (Sydnor Hydrodynamics).

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 210 ft, diameter 2 in. from 210 to 802 ft, depth 802 ft, screened 770 to 800 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 101 ft above sea level, from topographic map. Measuring point: Top of 0.5 in. copper nipple, 1.35 ft above land-surface datum. Prior to Feb. 10, 1981, measuring point was top of casing, 0.9 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

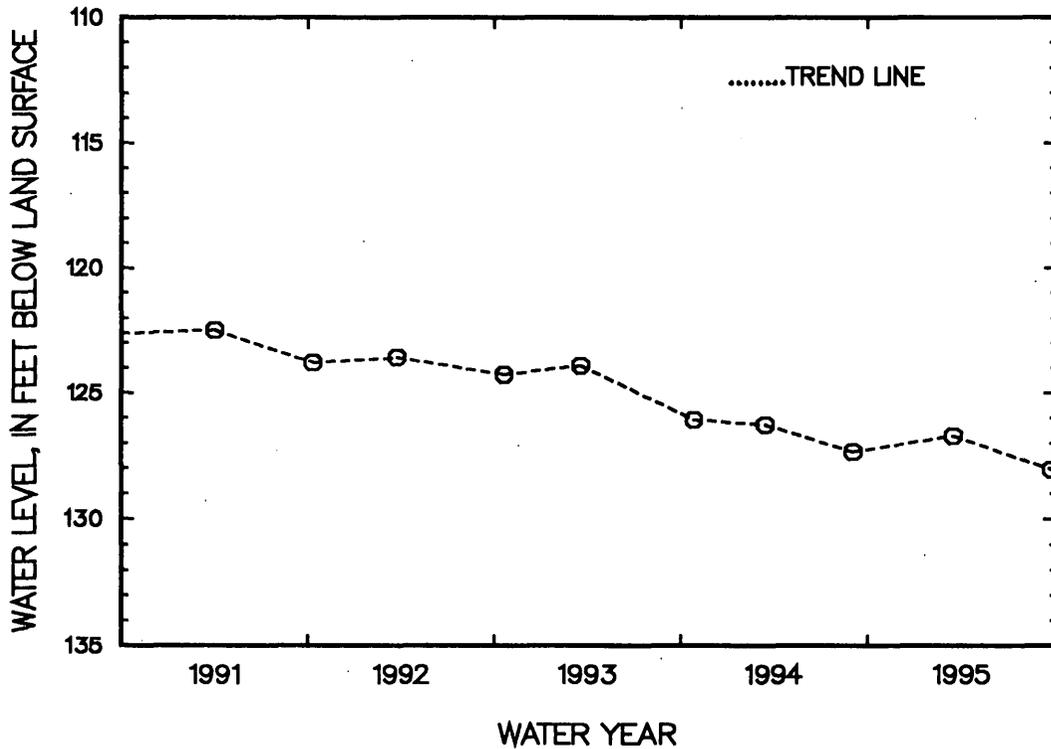
PERIOD OF RECORD.--April 1966 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.00 ft below land-surface datum, Apr. 26, 1966; lowest measured, 128.05 ft below land-surface datum, Sept. 21, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 16	126.71	SEP 21	128.05

WATER YEAR 1995 HIGHEST 126.71 MAR 16, 1995 LOWEST 128.05 SEP 21, 1995



GROUND-WATER LEVELS

LOUDOUN COUNTY

391542077423801. Local number, 49Y 1 SOW 022.

LOCATION.--Lat 39°15'42", long 77°42'38", Hydrologic Unit 02070008, 4.2 mi southeast of Harpers Ferry. Owner: American Telephone and Telegraph Company.

AQUIFER.--Bedrock of Precambrian or Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6.5 in., depth 516 ft, cased to 45 ft, open hole 45 to 516 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 1,100 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

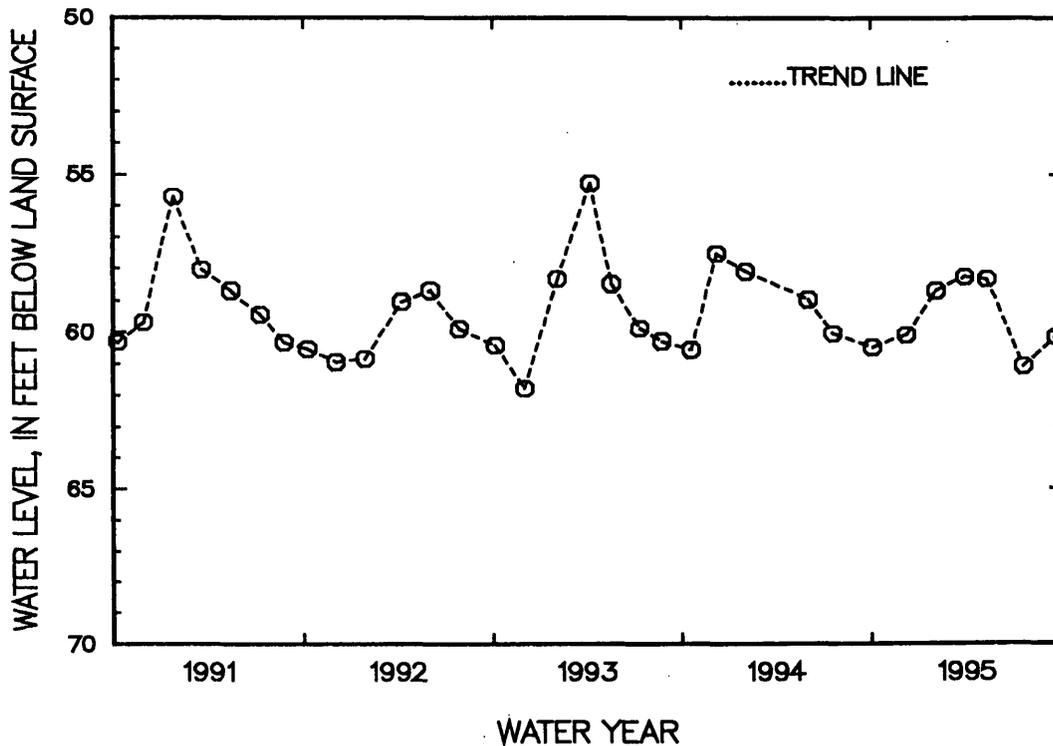
PERIOD OF RECORD.--August 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 48.00 ft below land-surface datum, June 22, 1972; lowest measured, 61.80 ft below land-surface datum, Dec. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	60.50	FEB 02	58.71	MAR 29	58.27	MAY 10	58.35	JUL 19	61.10	SEP 20	60.16
DEC 08	60.09										

WATER YEAR 1995 HIGHEST 58.27 MAR 29, 1995 LOWEST 61.10 JUL 19, 1995



LOUDOUN COUNTY

390623077314201. Local number, 50W 4C.

LOCATION.--Lat 39°06'23", long 77°31'42", Hydrologic Unit 02070008, under water tower 500 ft east of State Highway 7, 0.75 mi east of Leesburg. Owner: Town of Leesburg.

AQUIFER.--Slightly metamorphosed Balls Bluff Formation of Late Triassic age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 535 ft, cased to 6 ft, open hole 6 to 535 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 400 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

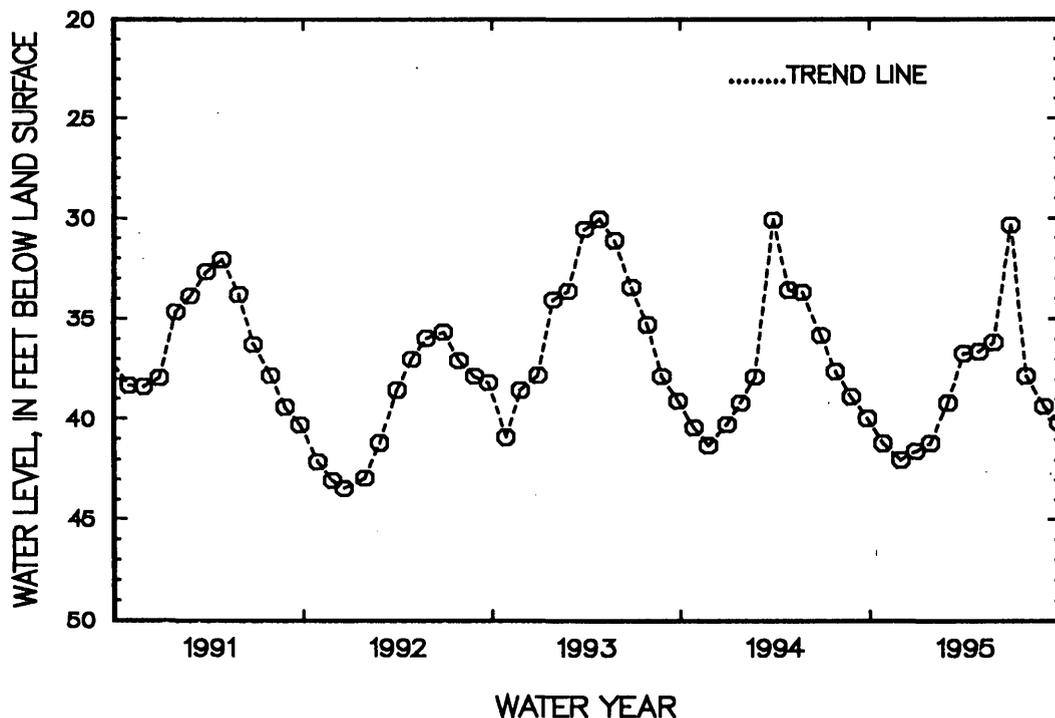
PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.04 ft below land-surface datum, Apr. 27, 1993; lowest measured, 49.06 ft below land-surface datum, Nov. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 26	41.19	DEC 28	41.57	FEB 27	39.19	APR 27	36.63	JUN 27	30.35	AUG 29	39.37
NOV 29	42.00	JAN 25	41.18	MAR 29	36.72	MAY 25	36.17	JUL 25	37.85	SEP 26	40.17

WATER YEAR 1995 HIGHEST 30.35 JUN 27, 1995 LOWEST 42.00 NOV 29, 1994



GROUND-WATER LEVELS

LOUISA COUNTY

380217078133701. Local number, 45N 1.

LOCATION.--Lat 38°02'17", long 78°13'43", Hydrologic Unit 02080106, off State Highway 640 on Tyler property, 0.9 mi southeast of Thelma, and 3 mi southwest of Boswells Tavern. Owner: Tyler.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 56 ft, length of casing unknown.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 500 ft above sea level, from topographic map. Measuring point: Top of casing, 1.95 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

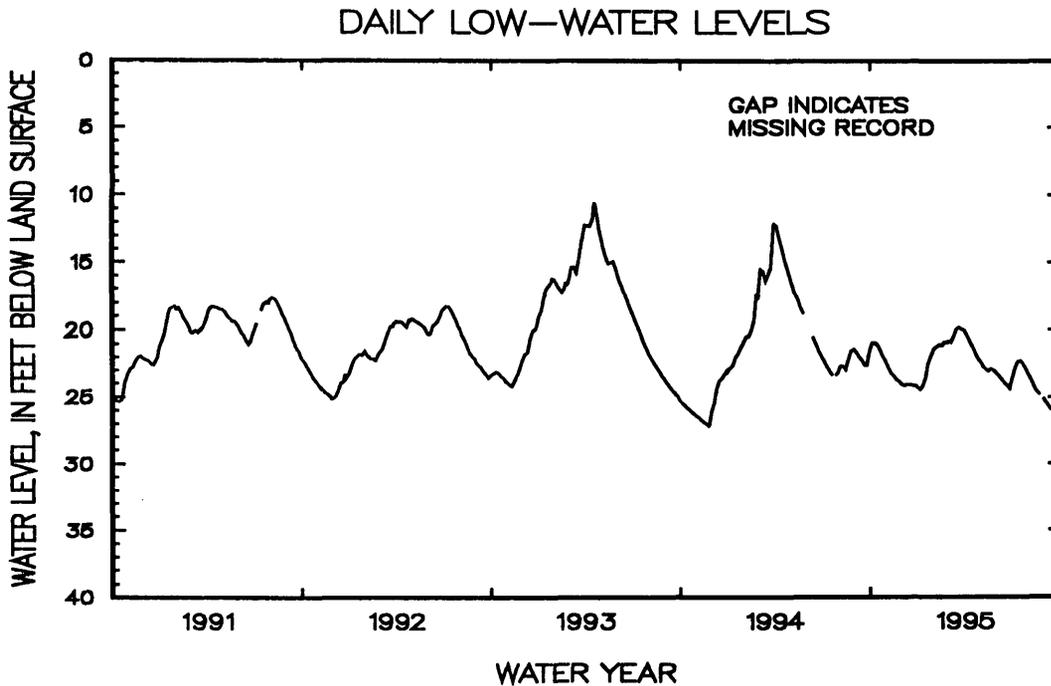
PERIOD OF RECORD.--July 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.63 ft below land-surface datum, Apr. 18, 19, 1993; lowest measured, 35.17 ft below land-surface datum, Dec. 2, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.98	22.80	24.15	24.43	21.25	20.93	20.53	22.70	23.47	22.81	23.74	25.54
10	20.94	23.20	24.10	24.23	21.12	20.52	20.92	22.91	23.73	22.33	24.24	25.88
15	21.12	23.40	24.08	23.65	21.15	20.00	21.23	23.07	23.99	22.28	24.57	25.98
20	21.43	23.68	24.14	22.53	20.95	19.86	21.63	22.90	24.15	22.53	24.76	26.14
25	21.89	23.82	24.20	21.96	20.95	20.00	22.05	22.99	24.38	22.91	---	26.33
EOM	22.33	24.04	24.30	21.39	20.86	20.16	22.35	23.27	23.55	23.39	25.25	26.58

WATER YEAR 1995 HIGHEST INSTANTANEOUS 19.73 MAR 21, 1995 LOWEST INSTANTANEOUS 26.58 SEP 30, 1995



LOUISA COUNTY

380043078111301. Local number, 45N 4.

LOCATION.--Lat 38°00'45", long 78°11'14", Hydrologic Unit 02080106, 0.25 mi east of U.S. Highway 15, 4.1 mi south of Boswells Tavern. Owner: Virginia Department of Corrections.

AQUIFER.--Metamorphosed sedimentary and volcanic rocks of unknown age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 200 ft, cased to 42 ft, open hole 42 to 200 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 415 ft above sea level, from topographic map. Measuring point: Top of casing, 2.3 ft above land-surface datum.

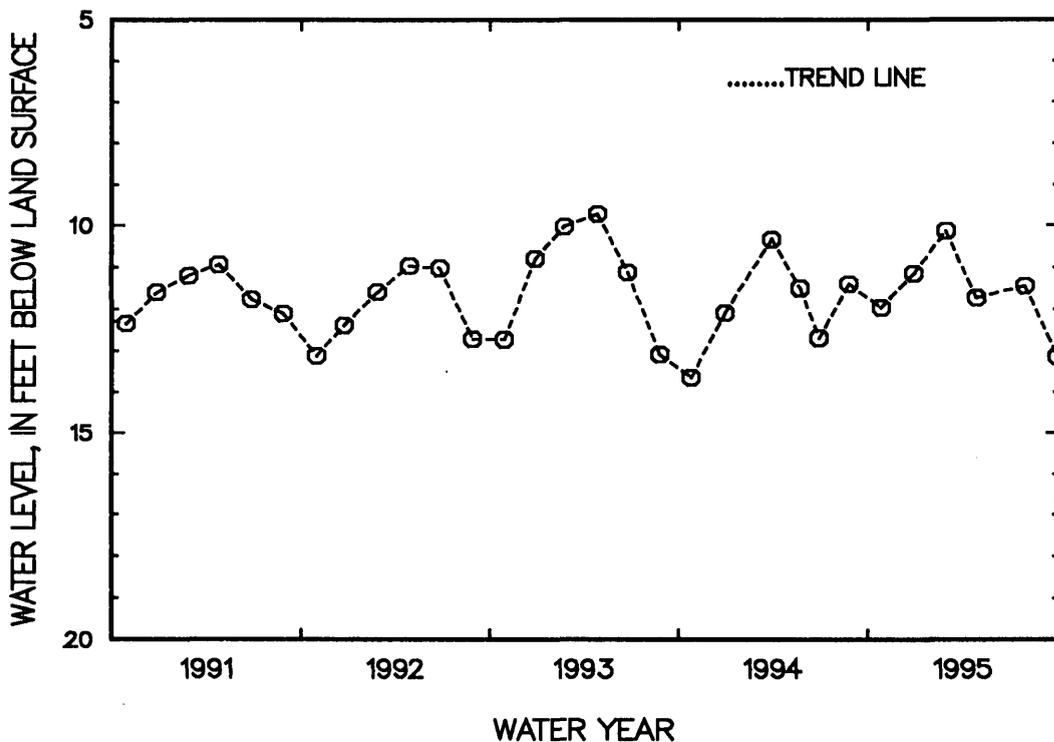
PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.40 ft below land-surface datum, Apr. 28, 1980; lowest measured, 14.43 ft below land-surface datum, Aug. 26, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 26	11.97	DEC 28	11.15	FEB 27	10.13	APR 26	11.74	JUL 27	11.45	SEP 26	13.15

WATER YEAR 1995 HIGHEST 10.13 FEB 27, 1995 LOWEST 13.15 SEP 26, 1995



GROUND-WATER LEVELS

LOUISA COUNTY

380131078001001. Local number, 46N 1 SOW 056.

LOCATION.--Lat 38°01'31", long 78°00'10", Hydrologic Unit 02080106, 200 ft northeast of intersection of U.S. Highway 33 and State Highway 208 in Louisa. Owner: Town of Louisa.

AQUIFER.--Metamorphosed sedimentary and volcanic rocks of unknown age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 132 ft, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1993, to Oct. 4, 1985, bimonthly measurement with chalked tape. Mar. 31, 1979, to Oct. 4, 1985, occasional measurement with chalked tape. Prior to Mar. 31, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 455 ft above sea level, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

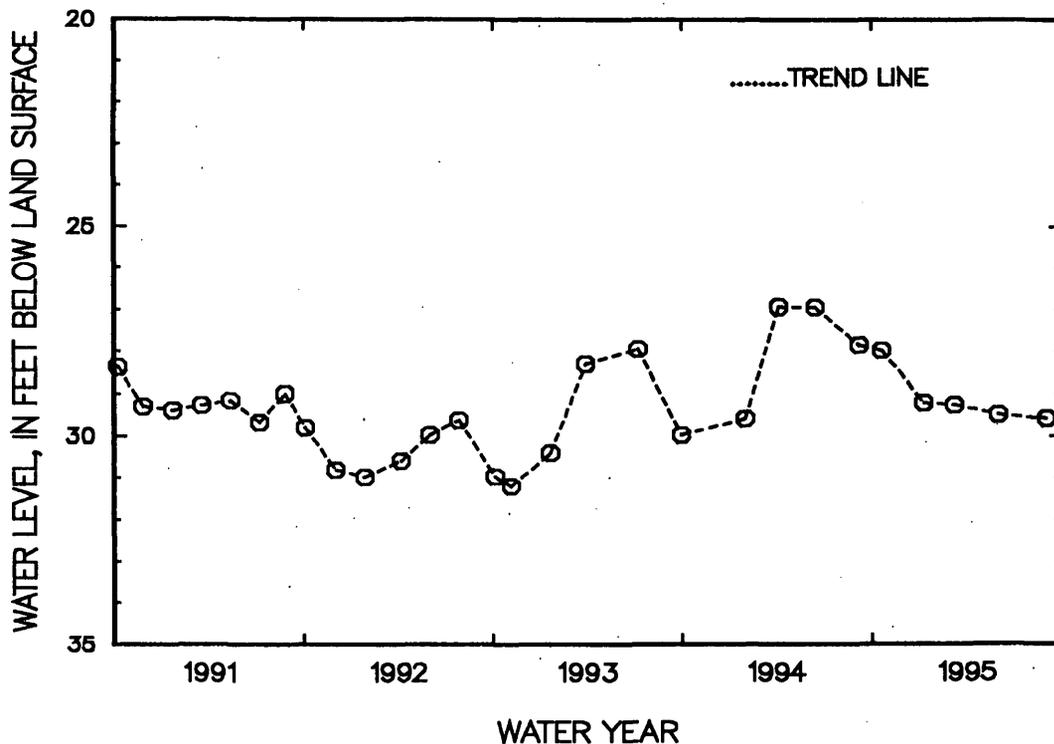
PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 26.27 ft below land-surface datum, May 18, 1973; lowest measured, 34.78 ft below land-surface datum, Dec. 8, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 20	27.98	JAN 09	29.20	MAR 09	29.25	MAY 31	29.48	AUG 31	29.58

WATER YEAR 1995 HIGHEST 27.98 OCT 20, 1994 LOWEST 29.58 AUG 31, 1995



MATHEWS COUNTY

372545076240101. Local number, 59H 1.

LOCATION.--Lat 37°25'45", long 76°24'01", Hydrologic Unit 02080102, 0.5 mi south of the intersection of State Highway 617 and private dirt road at the shore line of Greenmansion Cove at North and 0.7 mi southeast of the intersection of State Highways 14 and 617. Owner: G. T. Abernathy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled flowing water well, diameter 4 in., depth 568 ft, depth of screen unknown.

INSTRUMENTATION.--Occasional measurement with manometer by USGS personnel.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1950 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

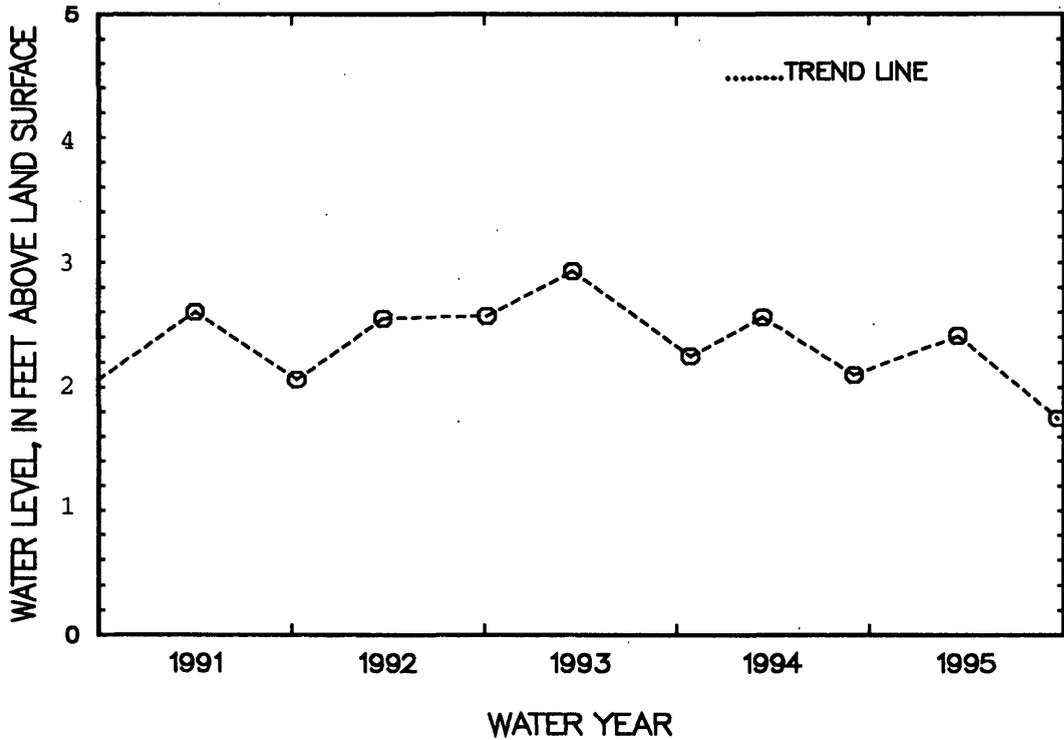
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.70 ft above land-surface datum, Feb. 12, 1980; lowest measured, 1.00 ft above land-surface datum, Jan. 1, 1950.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 16	2.41	SEP 18	1.75

WATER YEAR 1995 HIGHEST 2.41 MAR 16, 1995 LOWEST 1.75 SEP 18, 1995

NOTE.--Flowing well; readings are above land-surface datum.



GROUND-WATER LEVELS

MIDDLESEX COUNTY

373809076342501. Local number, 58K 1 SOW 031.

LOCATION.--Lat 37°38'09", long 76°34'25", Hydrologic Unit 02080104, 500 ft southeast of intersection of State Highways 227 and 602 in Urbanna. Owner: Town of Urbanna.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 552 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 2, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Jan. 25, 1979, to Oct. 1, 1985, occasional measurement with chalked tape. Prior to Jan. 25, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 20 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

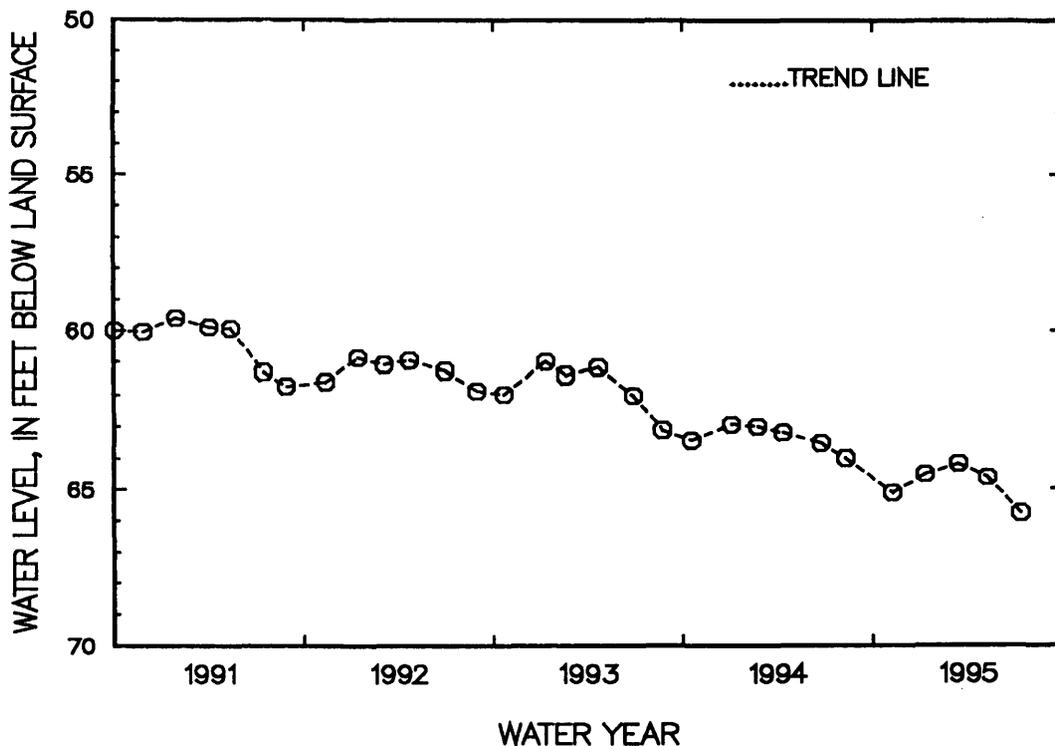
PERIOD OF RECORD.--May 1970 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 44.33 ft below land-surface datum, May 16, 1970; lowest measured, 65.76 ft below land-surface datum, July 11, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	65.12	JAN 10	64.52	MAR 15	64.17	MAY 09	64.62	JUL 11	65.76

WATER YEAR 1995 HIGHEST 64.17 MAR 15, 1995 LOWEST 65.76 JUL 11, 1995



MIDDLESEX COUNTY

373802076340201. Local number, 58K 7.

LOCATION.--Lat 37°38'02", long 76°34'02", Hydrologic Unit 02080104, 1.9 mi northwest of the intersection of State Highways 33 and 227 and 0.7 mi north of intersection of State Highway 222 and private farm road near Urbanna. Owner: Strother and Alfred Scott (Rose Gill Farm).

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 6 in., depth 650 ft, screened 571 to 582 ft, 588 to 603 ft, 630 to 635 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

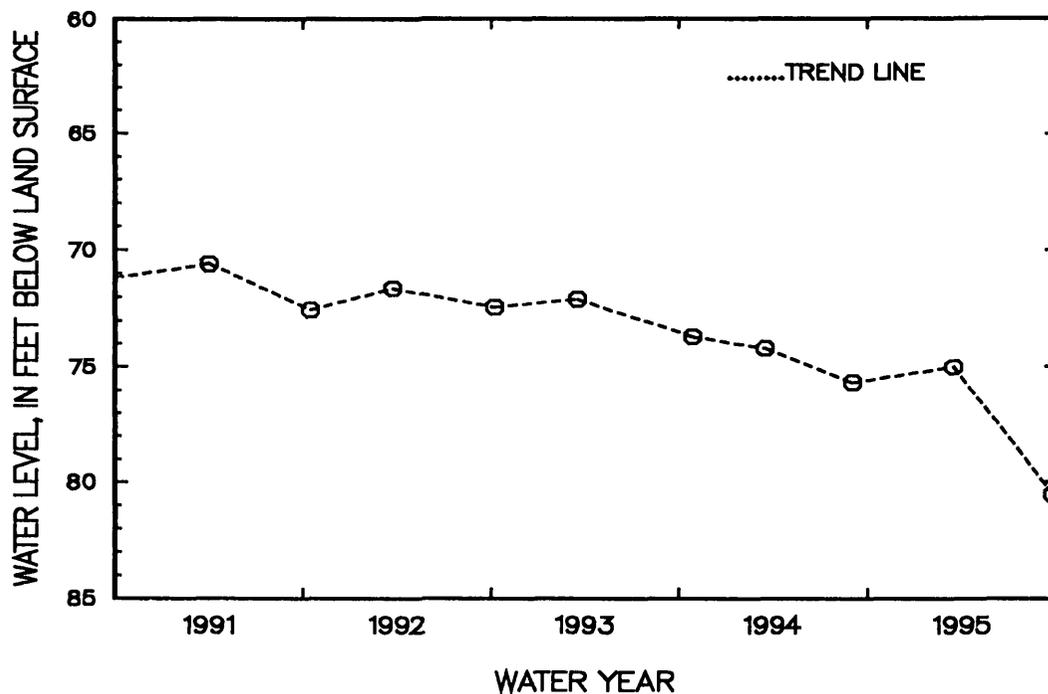
PERIOD OF RECORD.--November 1955 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.00 ft below land-surface datum, Nov. 29, 1955; lowest measured, 80.54 ft below land-surface datum, Sept. 21, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 16	75.02	SEP 21	80.54

WATER YEAR 1995 HIGHEST 75.02 MAR 16, 1995 LOWEST 80.54 SEP 21, 1995



GROUND-WATER LEVELS

MIDDLESEX COUNTY

373224076291001. Local number, 59J 3.

LOCATION.--Lat 37°32'24", long 76°29'10", Hydrologic Unit 02080102, 0.4 mi southeast of the intersection of State Highways 707 and 708 and 1.2 mi southwest of the intersection of State Highway 708 and private road near Grafton. Owner: Robert L. Beckwith (Woodstock Farm).

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 147 ft, diameter 2 in. from 147 to 506 ft, depth 506 ft, screened 493 to 503 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 18 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Water level may be affected by local pumpage.

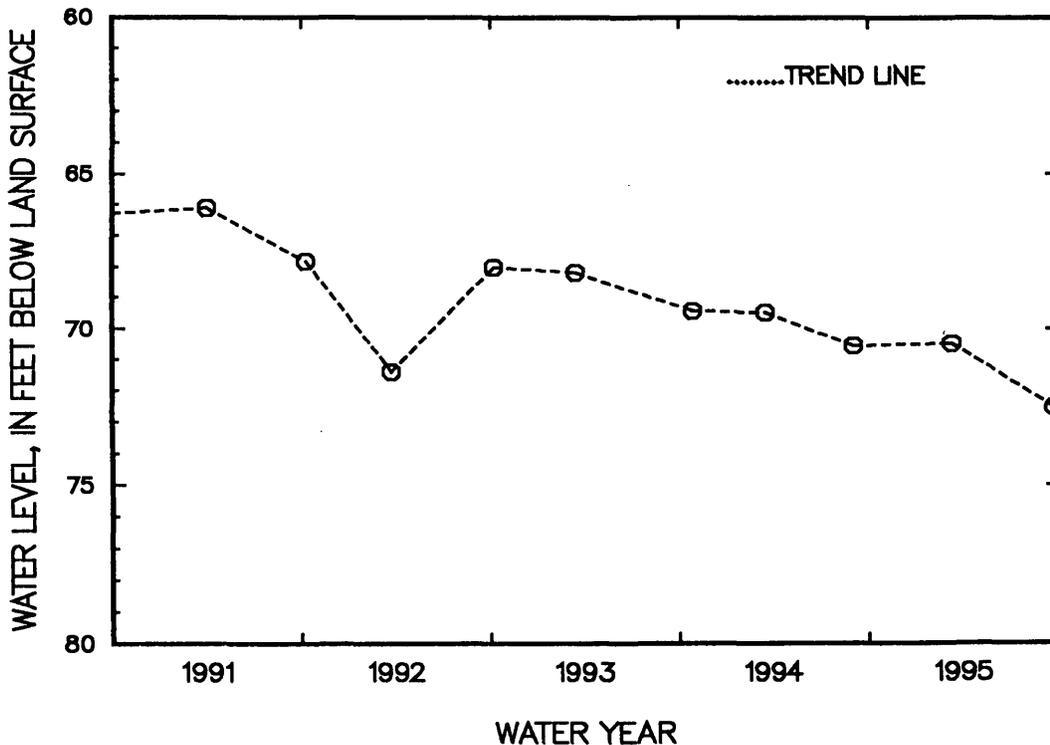
PERIOD OF RECORD.--September 1963 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.00 ft below land-surface datum, Sept. 29, 1964; lowest measured, 72.53 ft below land-surface datum, Sept. 21, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 10	70.47	SEP 21	72.53

WATER YEAR 1995 HIGHEST 70.47 MAR 20, 1995 LOWEST 72.53 SEP 21, 1995



MONTGOMERY COUNTY

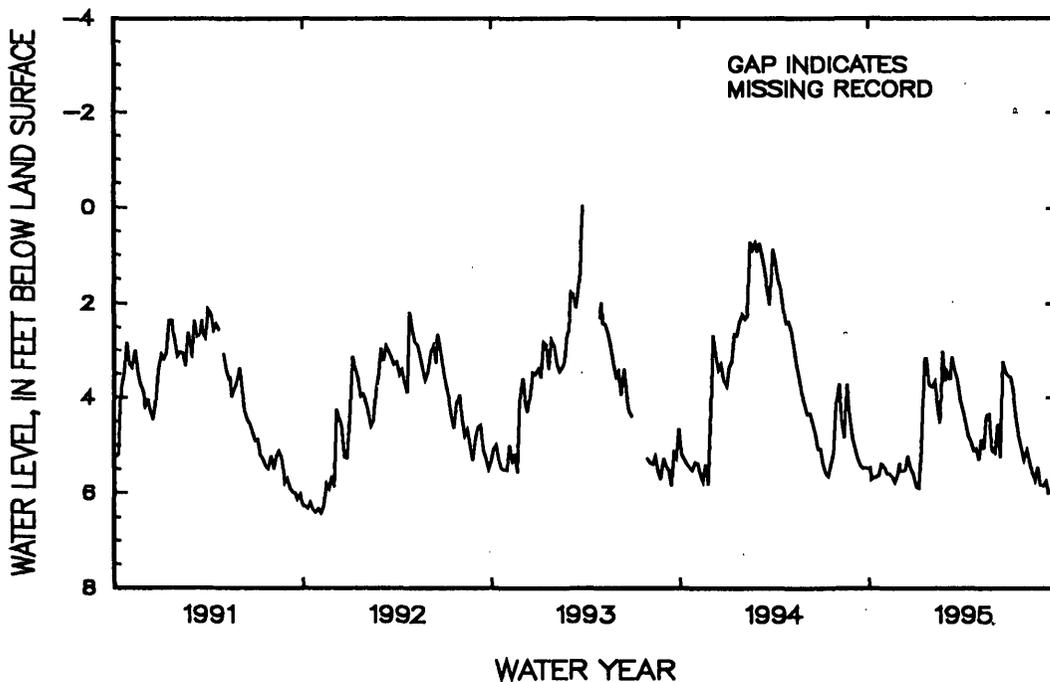
370812080261901. Local number, 27F 2 SOW 019.
 LOCATION.--Lat 37°08'12", long 80°26'19", Hydrologic Unit 05050001, off entrance road to Round Meadow Country Club, 400 ft north of State Highway 661, and 0.5 mi west of Christiansburg. Owner: Town of Christiansburg.
 AQUIFER.--Beekmantown Formation of Early Ordovician age.
 WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 450 ft, length of casing unknown.
 INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Apr. 5, 1969, one measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.
 DATUM.--Elevation of land-surface datum is 1,970 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft below land-surface datum prior to May 1, 1990; 0.43 ft above land-surface datum thereafter.
 REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Lowest recorded water level, 7.39 ft, is a result of the Mexico earthquake of Sept. 19, 1985, but is not shown as the minimum of record since it is an earthquake-induced measurement. Prior to May 1, 1990, brief periods when water flowed over top of casing.
 PERIOD OF RECORD.--July 1953, April 1969 to current year. Unpublished record available July 1953 in files of the Virginia Department of Environmental Quality - Water Division.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.02 ft above land-surface datum, Mar. 28, 1993; lowest recorded, 7.30 ft below land-surface datum, Dec. 5, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.71	5.59	5.54	5.89	3.66	3.59	4.52	4.87	4.56	3.87	5.36	5.75
10	5.67	5.60	5.52	5.12	4.14	3.13	4.80	5.07	5.25	4.40	5.58	6.00
15	5.66	5.66	5.22	3.73	4.53	3.43	4.92	4.38	3.23	4.79	5.73	5.99
20	5.63	5.77	5.48	3.17	3.03	3.60	5.11	4.35	3.45	5.05	5.46	5.83
25	5.39	5.63	5.59	3.73	3.64	3.99	5.07	5.11	3.54	5.30	5.83	5.87
EOM	5.46	5.54	5.86	3.77	3.45	4.25	5.30	5.16	3.56	5.10	5.84	5.90

WATER YEAR 1995 HIGHEST INSTANTANEOUS 2.94 FEB 20, 1995 LOWEST INSTANTANEOUS 6.03 SEP 12, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

NEW KENT COUNTY

373111077104601. Local number, 53J 6.

LOCATION.--Lat 37°31'11", long 77°10'46", Hydrologic Unit 02080206, 0.18 mi south of State Highway 249 in Brookwood Manor Subdivision, 0.7 mi northeast of the intersection of Interstate Highway 64 and State Highway 249, and 2.95 mi southwest of Quinton. Owner: Thomas M. Brooks.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 6 in., depth 305 ft, screened 285 to 305 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 115 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

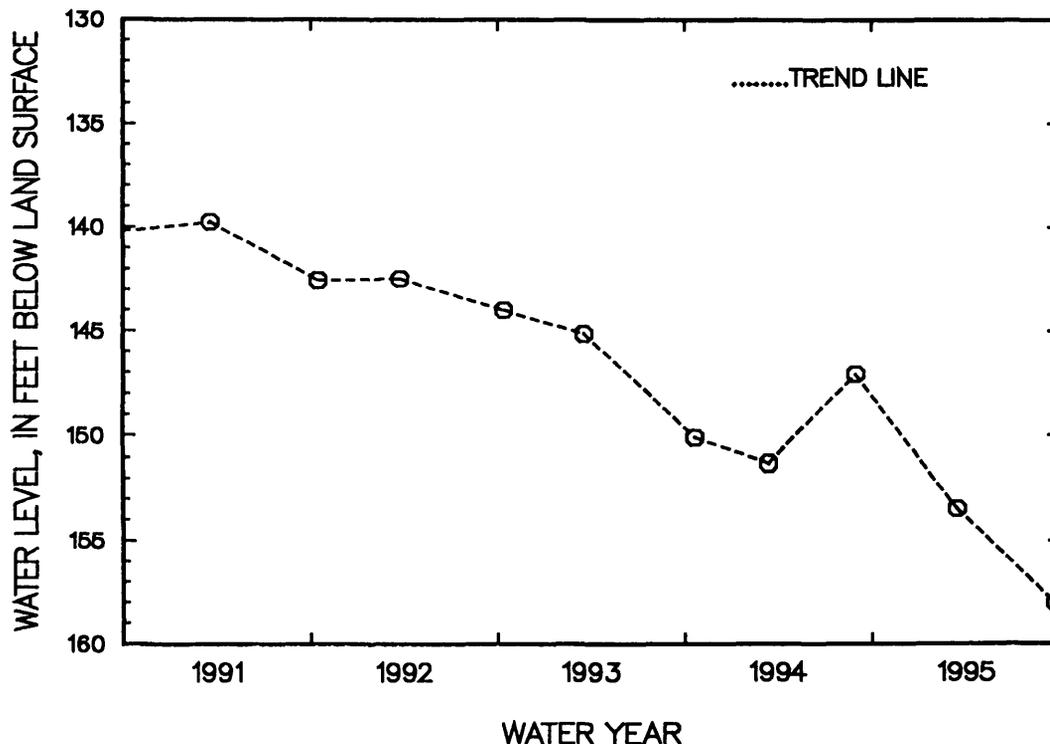
PERIOD OF RECORD.--November 1983 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 129.91 ft below land-surface datum, Feb. 3, 1984; lowest measured, 158.05 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	153.48	SEP 20	158.05

WATER YEAR 1995 HIGHEST 153.48 MAR 15, 1995 LOWEST 158.05 SEP 20, 1995



NEW KENT COUNTY

373421077012501. Local number, 54J 3.

LOCATION.--Lat 37°34'00", long 77°01'25", Hydrologic Unit 02080106, 0.8 mi northwest of the intersection of State Highway 608 and a private dirt road, 2.6 mi northwest of the intersection of State Highways 249 and 608, and 4.8 mi southeast of Tunstall. Owner: U.S. Department of the Navy.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 125 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 25 ft above sea level, from topographic map. Measuring point: Top of casing, 0.2 ft above land-surface datum.

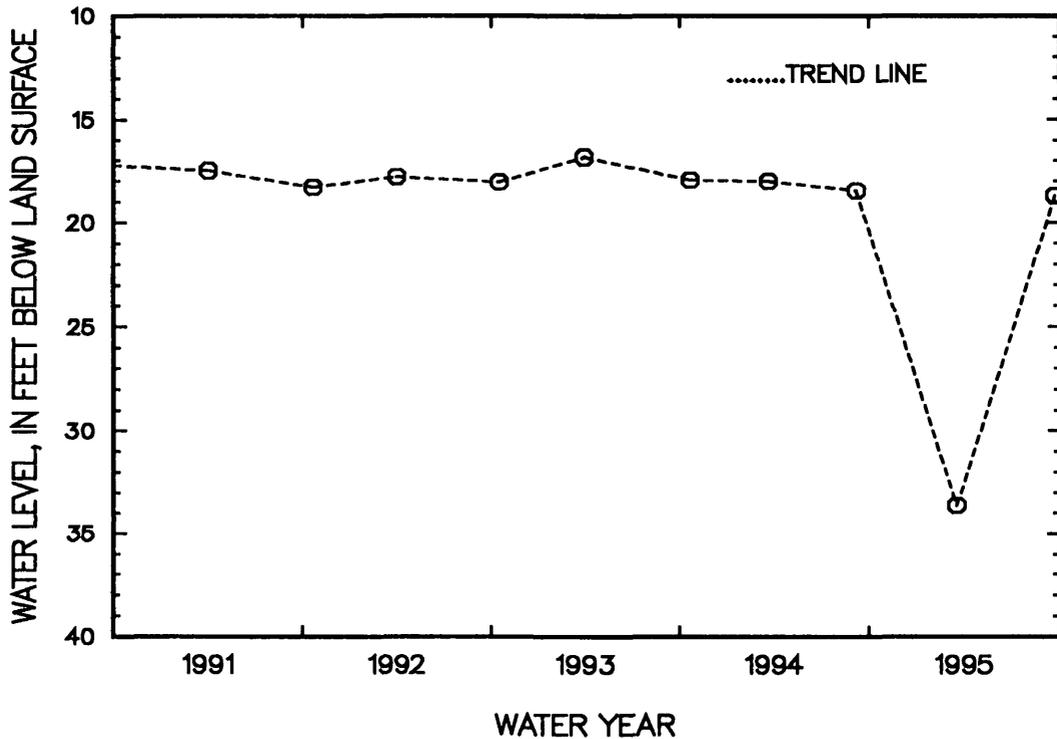
PERIOD OF RECORD.--November 1983 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.23 ft below land-surface datum, Mar. 30, 1984; lowest measured, 33.62 ft (result of pumpage) below land-surface datum, Mar. 17, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 17	33.62	SEP 20	18.70

WATER YEAR 1995 HIGHEST 18.70 SEP 20, 1995 LOWEST 33.62 MAR 17, 1995



GROUND-WATER LEVELS

NEW KENT COUNTY

372428076561501. Local number, 55H 1 SOW 017.

LOCATION.--Lat 37°24'28", long 76°56'15", Hydrologic Unit 02080206, at city of Newport News pump station, 500 ft upstream from Walkers Dam, and 0.6 mi southeast of Walkers. Owner: City of Newport News.

AQUIFER.--Brightseat-upper and middle Potomac aquifers of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 145 ft, diameter 4 in. from 145 to 630 ft, depth 630 ft, screened 252 to 257 ft, 339 to 344 ft, 439 to 444 ft, 615 to 625 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Apr. 5, 1979, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to Apr. 5, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

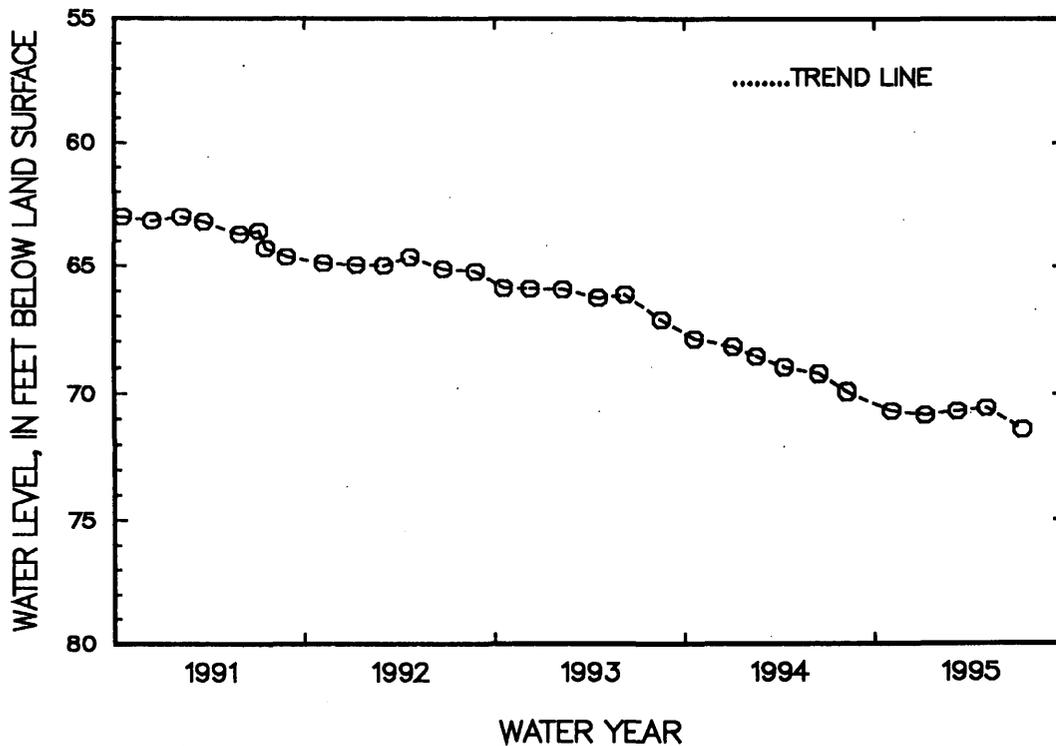
PERIOD OF RECORD.--March 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 30.24 ft below land-surface datum, Apr. 10, 1969; lowest measured, 71.40 ft below land-surface datum, July 10, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	70.67	JAN 06	70.83	MAR 08	70.67	MAY 03	70.53	JUL 10	71.40

WATER YEAR 1995 HIGHEST 70.53 MAY 03, 1995 LOWEST 71.40 JUL 10, 1995



NEW KENT COUNTY

373024076542201. Local number, 55J 6.

LOCATION.--Lat 37°30'24", long 76°54'22", Hydrologic Unit 02080106, 0.25 mi north of State Highway 249, 4.3 mi east of New Kent Courthouse. Owner: Chad Brunskole.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 275 ft, screened 265 to 275 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 110 ft above sea level, from topographic map. Measuring point: Top of casing, 1.38 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

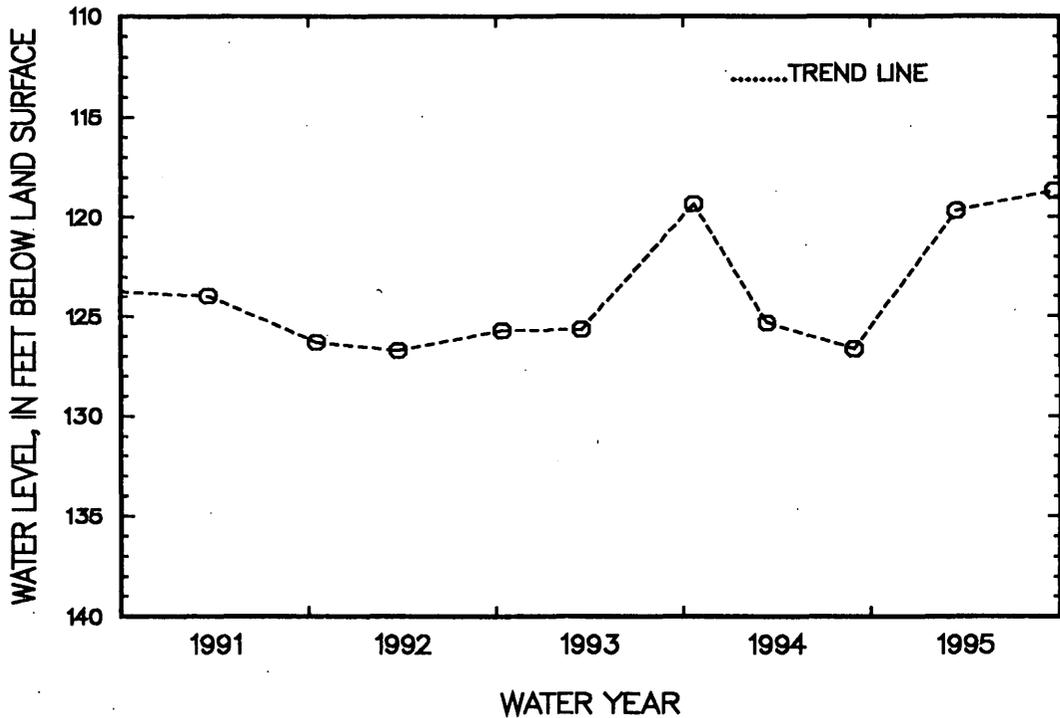
PERIOD OF RECORD.--December 1972, April 1984 to March 1986, March 1988 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 114.10 ft below land-surface datum, Dec. 7, 1972; lowest measured, 126.72 ft below land-surface datum, Mar. 24, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	119.70	SEP 18	118.70

WATER YEAR 1995 HIGHEST 118.70 SEP 18, 1995 LOWEST 119.70 MAR 15, 1995



CITY OF NEWPORT NEWS

371027076335601. Local number, 58F 1 SOW 002.

LOCATION.--Lat 37°10'27", long 76°33'56", Hydrologic Unit 02080206, on shore of Lee Hall Reservoir, 0.15 mi north of intersection of State Highway 105 and U.S. Highway 60, and 0.65 mi northeast of Fort Eustis in Newport News. Owner: City of Newport News.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in. to 431.3 ft, diameter 8 in. from 431.3 to 443 ft, diameter 6 in. from 443 to 497 ft, depth 497 ft, screened 476 to 493 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 20 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

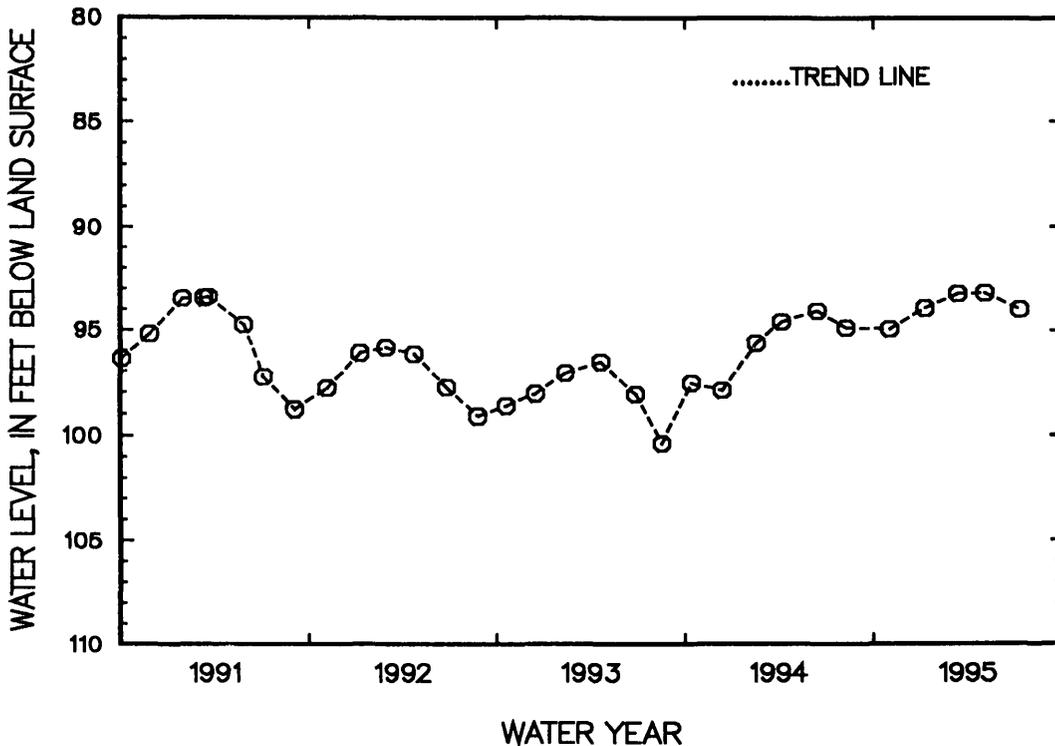
PERIOD OF RECORD.--January 1968 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.76 ft below land-surface datum, May 10, 1969; lowest measured, 100.37 ft below land-surface datum, Aug. 18, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	94.94	JAN 09	93.92	MAR 13	93.22	MAY 04	93.19	JUL 10	93.98

WATER YEAR 1995 HIGHEST 93.19 MAY 04, 1995 LOWEST 94.94 NOV 02, 1994



GROUND-WATER LEVELS

CITY OF NEWPORT NEWS

371208076341102. Local number, 58F 51 SOW 171B.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 851 ft, screened 820 to 830 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Apr. 14, 1993; 1.80 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. Water levels in October and November 1990 may have been affected by well drilled at site by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

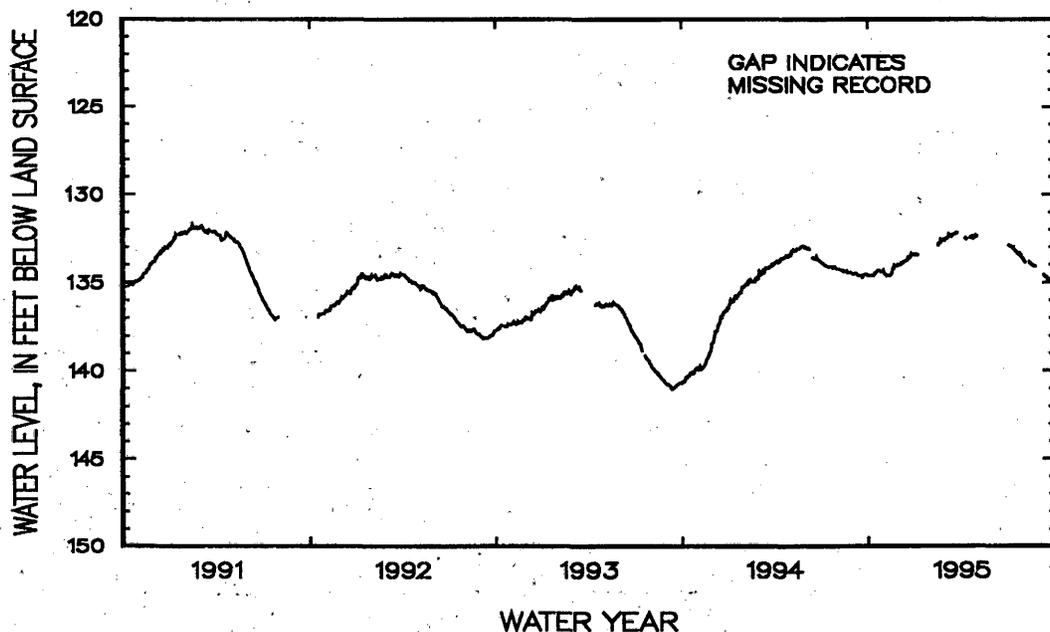
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 126.35 ft below land-surface datum, Mar. 23-25, 1985; lowest recorded, 141.02 ft below land-surface datum, Sept. 13, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	134.59	134.56	133.97	133.42	---	132.49	---	---	---	132.93	---	---
10	134.58	134.62	133.88	---	---	132.34	132.48	---	---	133.06	---	134.64
15	134.47	134.58	133.76	---	132.87	132.33	---	---	---	133.22	133.97	134.81
20	134.37	134.23	133.60	---	132.69	132.25	132.43	---	---	133.38	134.07	134.86
25	134.34	134.08	133.41	---	132.63	132.19	132.38	---	---	133.42	---	134.90
EOM	134.41	133.98	133.45	---	132.61	---	132.40	---	---	133.71	---	135.05

WATER YEAR 1995 HIGHEST INSTANTANEOUS 132.16 MAR 23, 1995 LOWEST INSTANTANEOUS 135.05 SEP 30, 1995

DAILY LOW-WATER LEVELS



CITY OF NEWPORT NEWS

371208076341103. Local number, 58F 52 SOW 171C.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 537 ft, screened 527 to 537 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. October 1993 to June 1994, occasional measurement with chalked tape by USGS personnel. Prior to October 1993, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Apr. 14, 1993; 3.1 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. Water levels in October and November 1990 may have been affected by well drilled at site by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--June 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

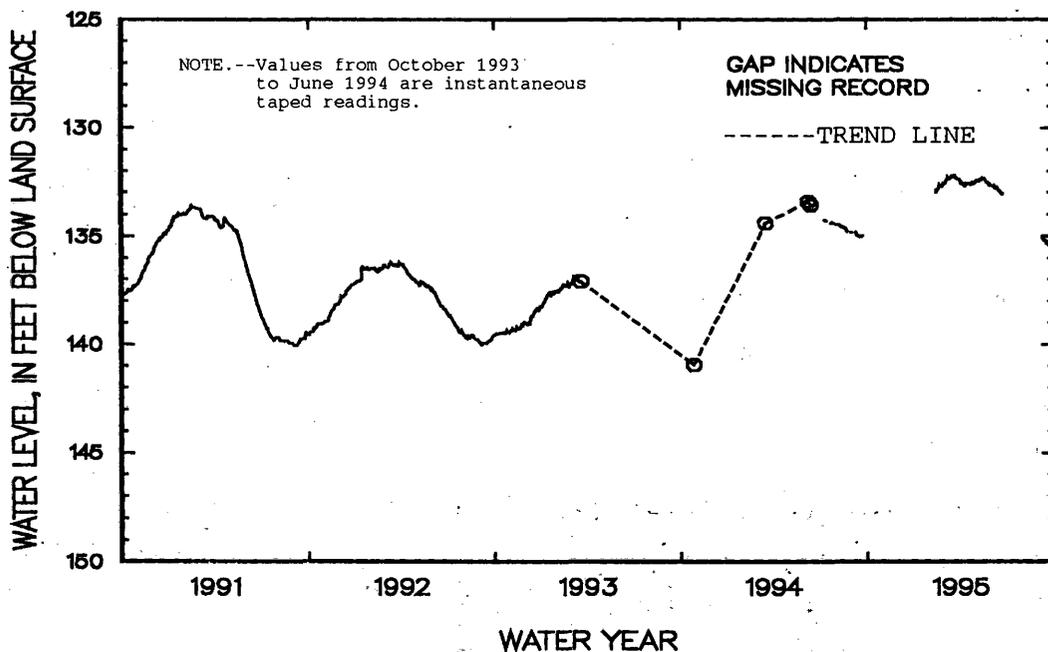
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 128.12 ft below land-surface datum, Mar. 23, 1985; lowest measured, 140.93 ft below land-surface datum, Oct. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	132.55	132.57	132.44	132.72	---	---	---
10	---	---	---	---	---	132.36	132.69	132.46	132.81	---	---	135.17
15	---	---	---	---	132.98	132.31	132.59	132.34	132.87	133.46	---	135.33
20	---	---	---	---	132.76	132.26	132.59	132.37	132.99	---	---	135.41
25	---	---	---	---	132.72	132.32	132.55	132.52	---	---	---	135.46
EOM	---	---	---	---	132.68	132.38	132.58	132.65	---	---	---	135.58

WATER YEAR 1995
 HIGHEST INSTANTANEOUS 132.17 MAR 21, 22, 1995
 LOWEST INSTANTANEOUS 135.58 SEP 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF NEWPORT NEWS

371208076341104. Local number, 58F 53 SOW 171D.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 343 ft, screened 333 to 343 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Apr. 14, 1993; 2.9 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. Water levels in October and November 1990 may have been affected by well drilled at site by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

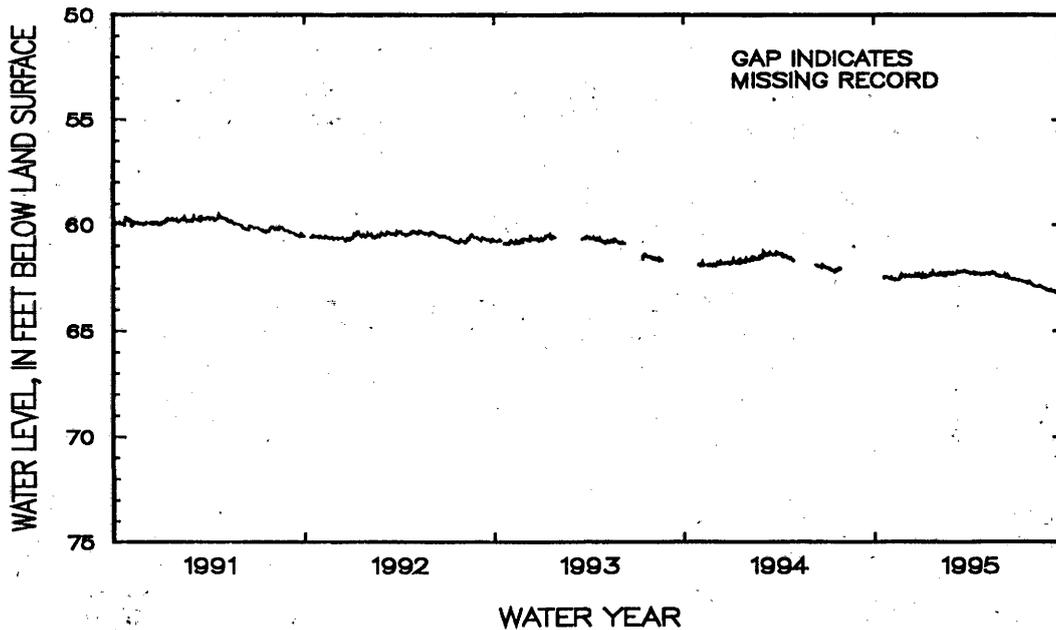
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 55.18 ft below land-surface datum, Feb. 2, 1985; lowest recorded, 63.21 ft below land-surface datum, Sept. 15, 16, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	62.55	62.40	62.47	62.28	62.30	62.27	62.28	62.42	62.60	62.89	63.13
10	---	62.58	62.43	62.42	62.35	62.23	62.33	62.33	62.48	62.65	62.90	63.15
15	---	62.58	62.40	62.40	62.39	62.20	62.27	62.25	62.49	62.69	62.92	63.21
20	62.49	62.43	62.41	62.35	62.25	62.20	62.30	62.30	62.51	62.75	62.99	63.16
25	62.46	62.41	62.30	62.37	62.34	62.22	62.30	62.40	62.53	62.71	63.07	63.14
EOM	62.53	62.36	62.48	62.30	62.33	62.22	62.32	62.42	62.58	62.85	63.09	63.20

WATER YEAR 1995 HIGHEST INSTANTANEOUS 62.11 MAR 08, 09, 1995
 LOWEST INSTANTANEOUS 63.21 SEP 15, 16, 1995

DAILY LOW-WATER LEVELS



CITY OF NEWPORT NEWS

371208076341105. Local number, 58F 54 SOW 171E.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 88 ft, screened 78 to 88 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Removed digital recorder Oct. 18, 1991; reinstalled July 8, 1992. Occasional measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction; lowest water level for the 1994 water year may have occurred during this period. Water levels in October and November 1990 may have been affected by well drilled at site by Virginia Department of Environmental Quality - Water Division. Water level affected by occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--June 1984 to October 1991, July 1992 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

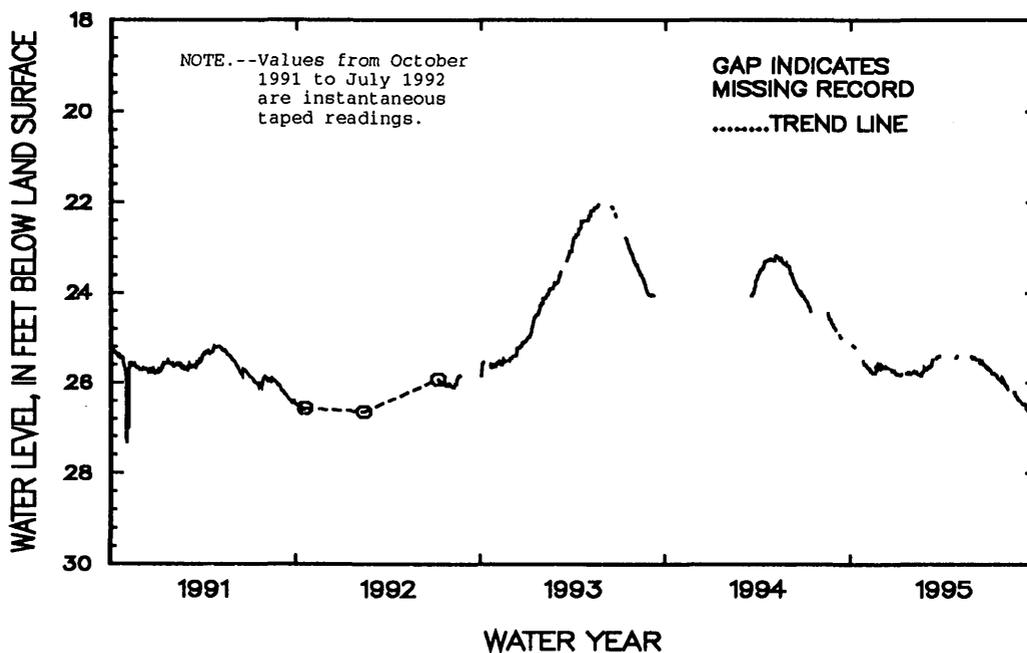
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 22.05 ft below land-surface datum, May 20, 21, 1993; lowest recorded, 27.34 ft below land-surface datum, Nov. 1, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.19	25.68	25.66	25.83	25.77	25.64	---	---	---	25.80	---	26.49
10	---	25.75	25.68	---	---	---	---	---	25.57	25.82	---	26.60
15	---	25.79	---	---	25.84	---	---	---	25.58	25.90	26.21	26.68
20	---	25.68	25.74	25.79	25.70	---	---	---	---	25.96	26.32	26.68
25	25.52	25.62	25.74	25.80	25.70	---	25.40	25.45	25.67	25.95	26.40	---
EOM	---	25.61	25.81	25.75	25.69	---	---	25.45	25.72	26.08	26.48	26.76

WATER YEAR 1995 HIGHEST INSTANTANEOUS 25.08 OCT 01, 1994 LOWEST INSTANTANEOUS 26.76 SEP 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF NEWPORT NEWS

371208076341106. Local number, 58F 55 SOW 171F.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by occasional pumpage for water-quality sampling. Water levels in October and November 1990 may have been affected by well drilled at site by Virginia Department of Environmental Quality.

PERIOD OF RECORD.--June 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

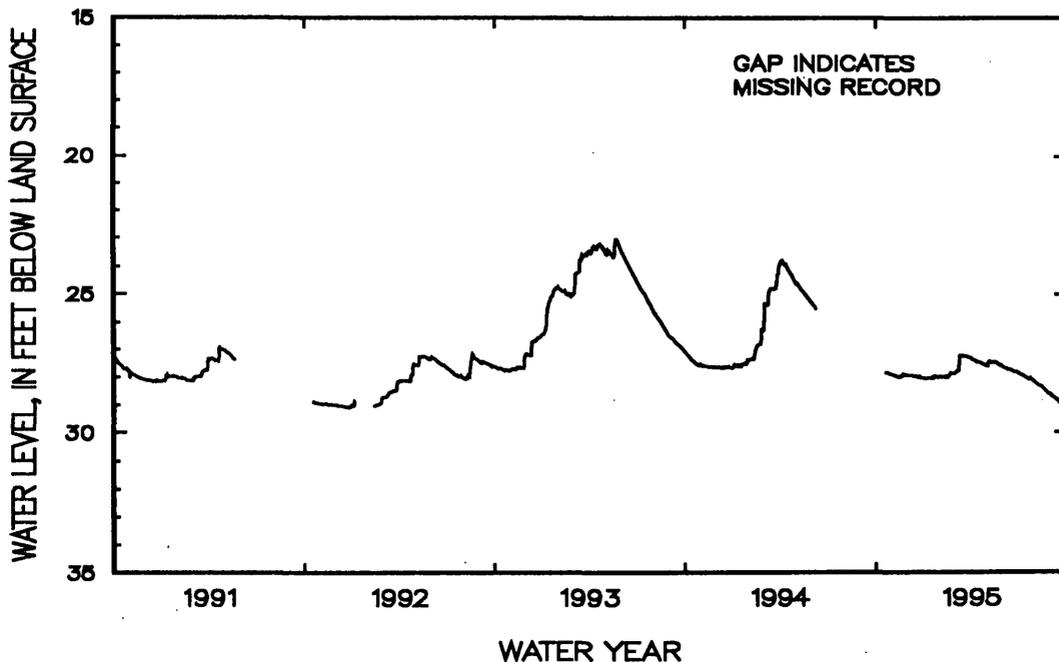
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 23.04 ft below land-surface datum, May 21-24, 1993; lowest recorded, 29.09 ft below land-surface datum, Dec. 27, 28, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	27.93	27.92	28.05	27.97	27.78	27.38	27.43	27.67	27.90	28.28	28.75
10	---	27.97	27.94	28.03	27.98	27.22	27.44	27.47	27.72	27.97	28.31	28.82
15	---	28.00	27.96	28.04	28.00	27.23	27.46	27.45	27.74	28.03	28.40	28.93
20	27.84	27.96	27.99	27.99	27.86	27.25	27.49	27.49	27.79	28.09	28.49	28.96
25	27.86	27.93	28.01	27.98	27.86	27.28	27.54	27.57	27.80	28.10	28.59	29.00
EOM	27.90	27.93	28.03	27.98	27.86	27.31	27.58	27.63	27.86	28.20	28.68	29.00

WATER YEAR 1995 HIGHEST INSTANTANEOUS 27.20 MAR 09, 1995 LOWEST INSTANTANEOUS 29.06 SEP 30, 1995

DAILY LOW-WATER LEVELS



CITY OF NORFOLK

365223076122101. Local number, 61C 1.

LOCATION.--Lat 36°52'23", long 76°12'21", Hydrologic Unit 02080108, at Moores Bridge Filter Plant, 0.3 mi east of intersection of State Highway 165 and U.S. Highway 13 in Norfolk. Owner: City of Norfolk.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 970 ft, screened 900 to 960 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Inner edge of manhole at land-surface datum. Prior to Oct. 29, 1987, measuring point at top of casing, 3.15 ft above land-surface datum.

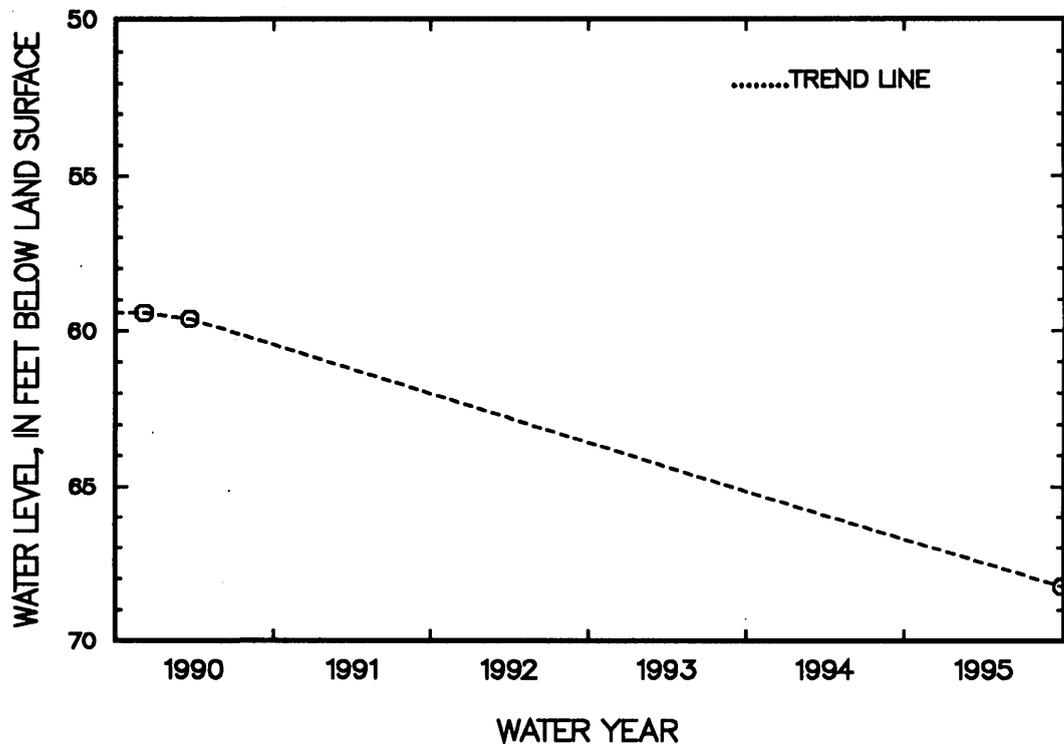
REMARKS.--Water level affected by pumping, regional drawdown, and recharge operations in nearby wells May 18, 1971, to Nov. 5, 1973.

PERIOD OF RECORD.--January 1968 to June 1990, September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.70 ft below land-surface datum, Feb. 17, 1968; lowest measured, 68.26 ft below land-surface datum, Sept. 27, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, SEPTEMBER 1995

DATE	WATER LEVEL
SEP 27	68.26



GROUND-WATER LEVELS

CITY OF NORFOLK

365221076121303. Local number, 61C 3.

LOCATION.--Lat 36°52'21", long 76°12'15", Hydrologic Unit 02080108, at Moores Bridge Filter Plant, 0.3 mi east of intersection of State Highway 165 and U.S. Highway 13 in Norfolk. Owner: U.S. Geological Survey.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 991 ft, screened 900 to 980.7 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 7 ft above sea level, from topographic map. Measuring point: Top of casing, 1.22 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

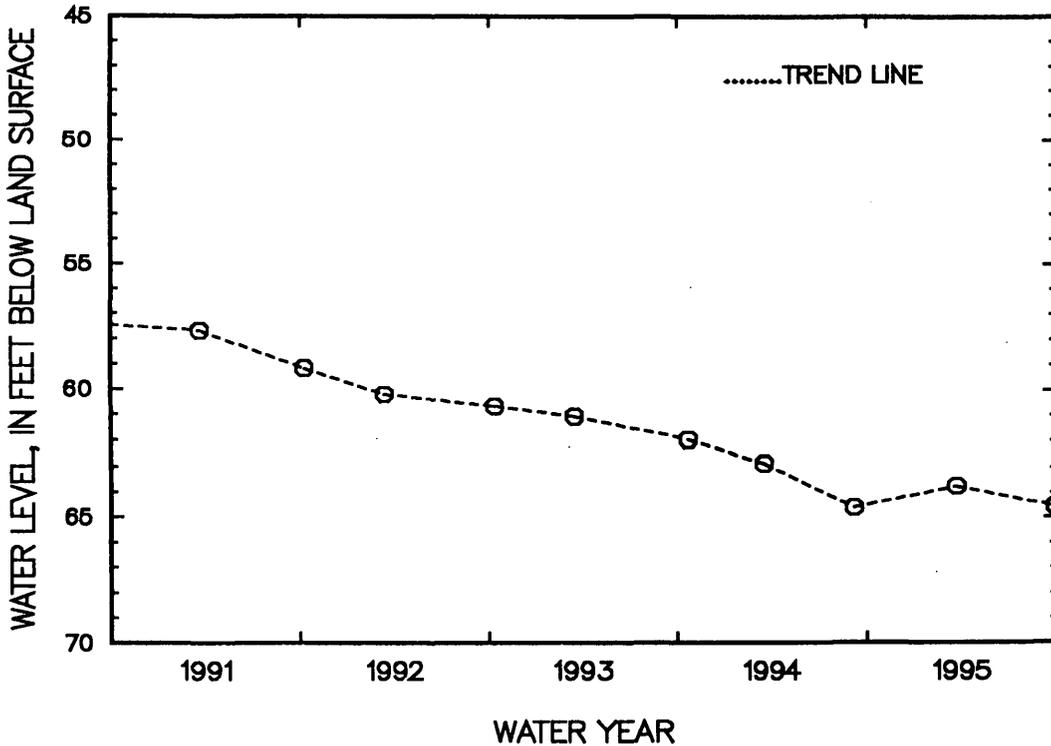
PERIOD OF RECORD.--February 1969 to September 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.30 ft below land-surface datum, Feb. 19, 1969; lowest measured, 64.62 ft below land-surface datum, Sept. 7, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	63.76	SEP 27	64.57

WATER YEAR 1995 HIGHEST 63.76 MAR 23, 1995 LOWEST 64.57 SEP 27, 1995



NORTHAMPTON COUNTY

371307075583501. Local number, 63F 15 SOW 105A.

LOCATION.--Lat 37°13'07", 75°58'35", Hydrologic Unit 02080109, 50 ft. south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 31.97 ft above sea level. Measuring point: Top of recorder shelf, 1.1 ft above land-surface datum prior to July 21, 1987; 1.4 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

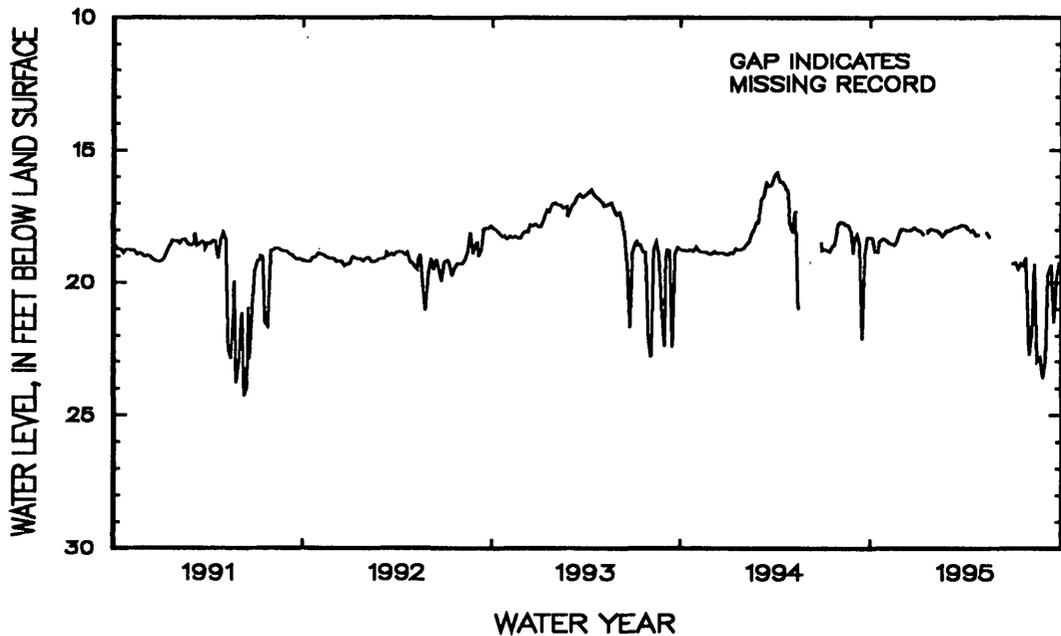
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.44 ft below land-surface datum, Apr. 12, 1982; lowest recorded, 24.62 ft below land-surface datum, June 15, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.29	18.50	17.98	18.02	17.99	17.98	17.92	---	---	19.24	21.97	19.72
10	18.81	18.52	18.00	18.15	18.10	17.90	18.05	---	---	19.47	19.30	19.33
15	18.84	18.56	18.00	---	18.21	17.91	18.01	18.25	---	19.28	22.98	21.49
20	18.40	18.42	17.98	18.03	18.10	17.85	18.20	---	---	19.34	22.85	19.94
25	18.32	18.11	17.90	17.96	18.00	17.80	18.17	---	---	19.25	23.59	19.26
EOM	18.40	17.95	18.01	17.99	18.02	17.83	---	---	19.27	22.72	22.96	19.30

WATER YEAR 1995 HIGHEST INSTANTANEOUS 17.78 MAR 21, 22, 1995 LOWEST INSTANTANEOUS 24.02 AUG 26, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371307075583502. Local number, 63F 16 SOW 105C.

LOCATION.--Lat 37°13'07", long 75°58'35", Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 285 ft, screened 275 to 285 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.16 ft above sea level. Measuring point: Top of casing, 0.1 ft above land-surface datum prior to Mar. 1, 1994; 0.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

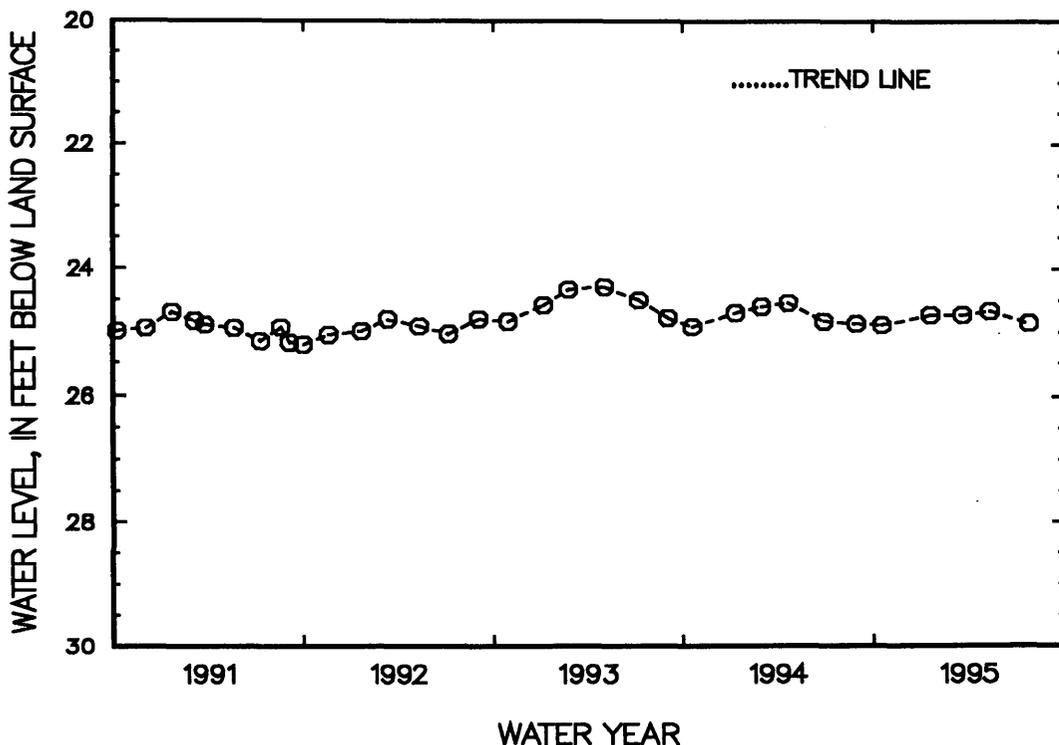
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.91 ft below land-surface datum, Jan. 9, 1979; lowest measured, 29.58 ft below land-surface datum, May 23, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	24.89	JAN 18	24.73	MAR 20	24.73	MAY 11	24.67	JUL 24	24.86

WATER YEAR 1995 HIGHEST 24.67 MAY 11, 1995 LOWEST 24.89 OCT 17, 1994



NORTHAMPTON COUNTY

371307075583503. Local number, 63F 17 SOW 105B.

LOCATION.--Lat 37°13'07", long 75°58'35", Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 196 ft, screened 186 to 196 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.50 ft above sea level. Measuring point: Top of casing, 0.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

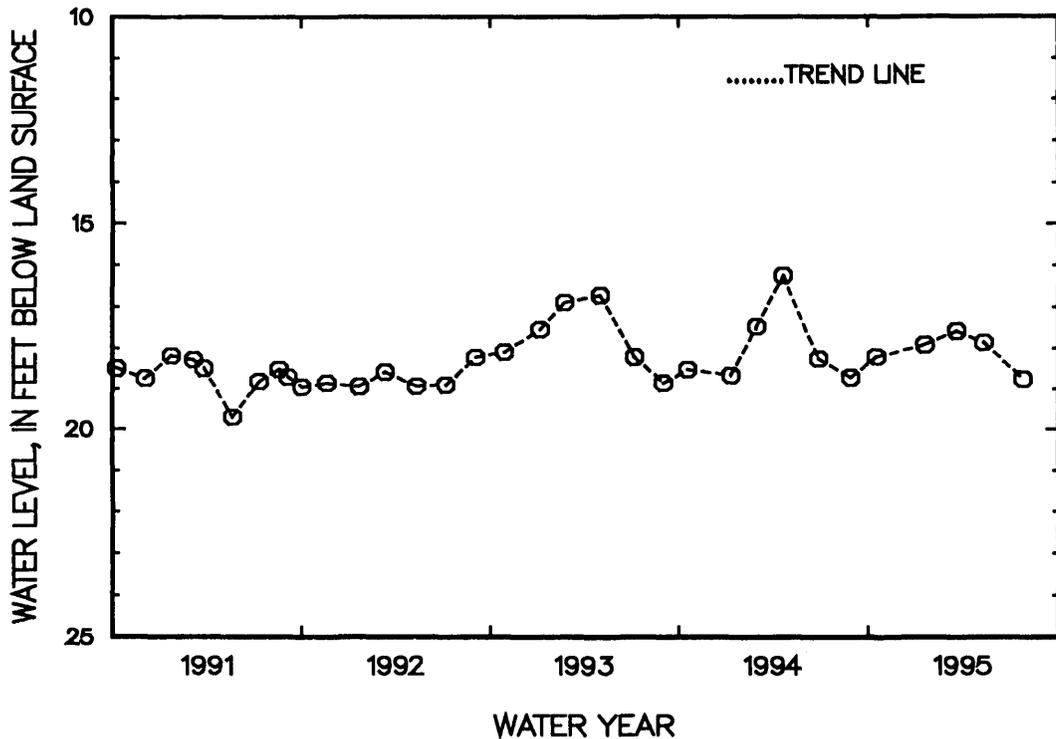
PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.78 ft below land-surface datum, Apr. 25, 1984; lowest measured, 21.68 ft below land-surface datum, Feb. 11, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	18.21	JAN 18	17.92	MAR 20	17.59	MAY 11	17.87	JUL 24	18.76

WATER YEAR 1995 HIGHEST 17.59 MAR 20, 1995 LOWEST 18.76 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

370807075570802. Local number, 63F 51 SOW 182A

LOCATION.--Lat 37°08'07", long 75°57'08", Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,730 ft, screened 1,720 to 1,730 ft.

INSTRUMENTATION.--Occasional measurement with manometer and/or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with manometer and/or chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1990 to current year.

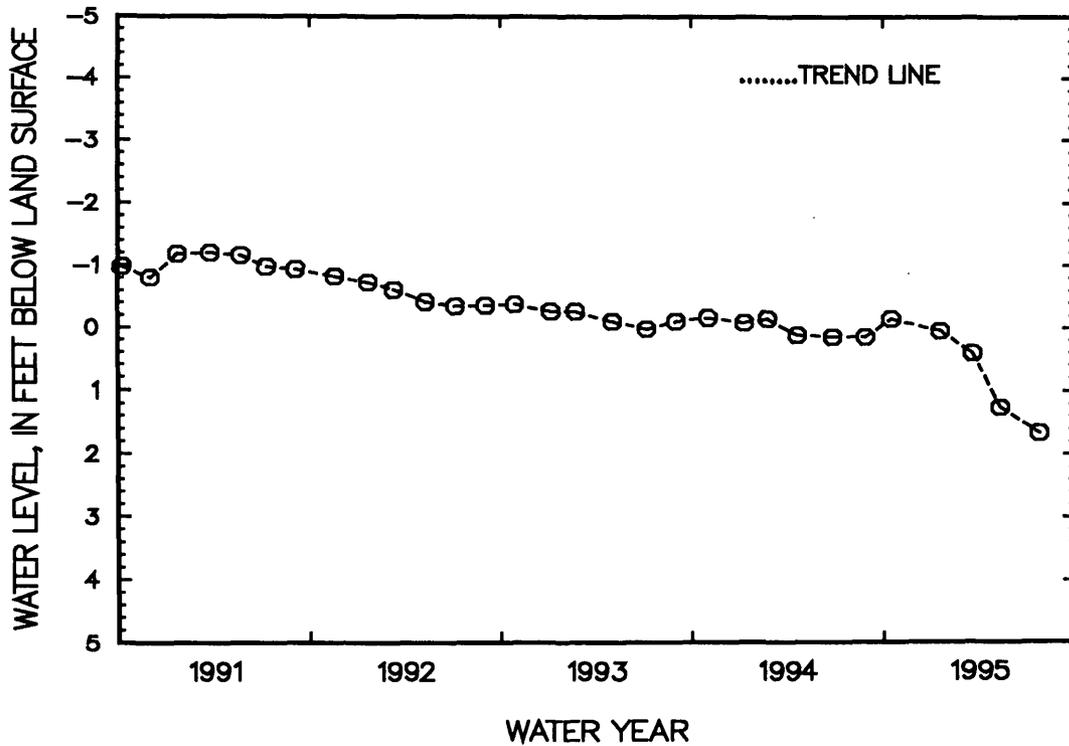
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.35 ft above land-surface datum, May 7, 1990; lowest measured, 1.67 ft below land-surface datum, July 24, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	+0.14	JAN 18	0.05	MAR 20	0.41	MAY 11	1.26	JUL 24	1.67

WATER YEAR 1995 HIGHEST +0.14 OCT 17, 1994 LOWEST 1.67 JUL 24, 1995

+ Water level is above land-surface datum.



NORTHAMPTON COUNTY

370807075570803. Local number, 63F 52 SOW 182B.

LOCATION.--Lat 37°08'07", long 75°57'08", Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,040 ft, diameter 2 in. from 1,040 to 1,320 ft, depth 1,320 ft, screened 1,300 to 1,320 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

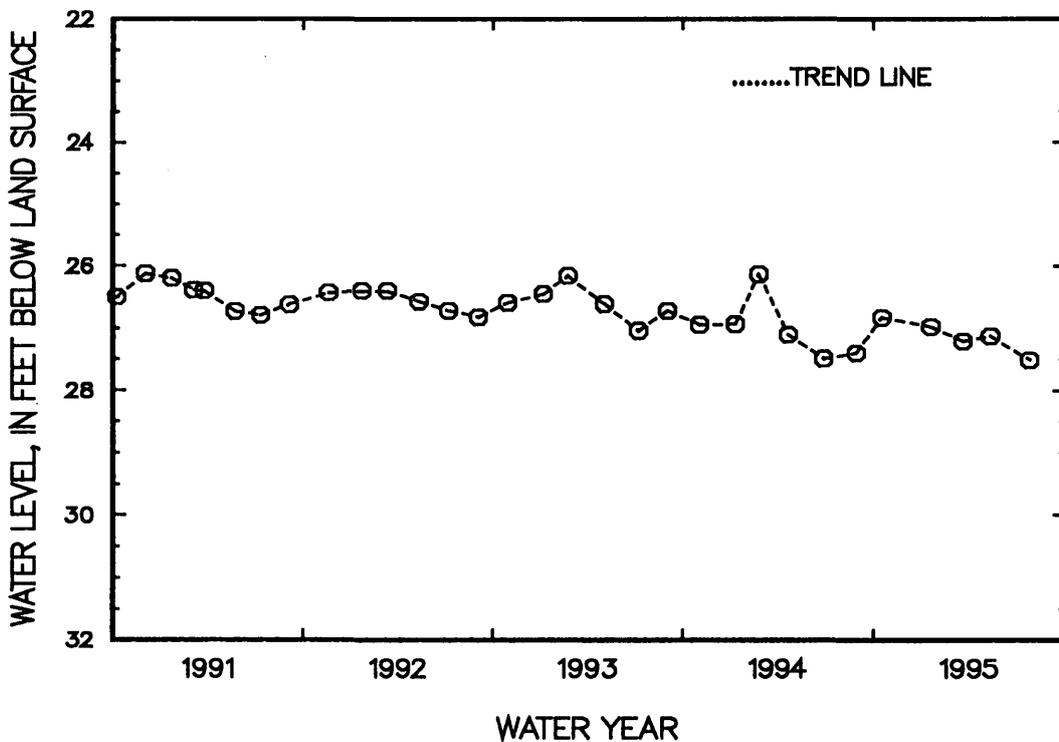
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.12 ft below land-surface datum, Dec. 3, 1990; lowest measured, 27.50 ft below land-surface datum, July 24, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	26.82	JAN 18	26.97	MAR 20	27.20	MAY 11	27.12	JUL 24	27.50

WATER YEAR 1995 HIGHEST 26.82 OCT 17, 1994 LOWEST 27.50 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

370807075570804. Local number, 63F 53 SOW 182C.

LOCATION.--Lat 37°08'07", long 75°57'08", Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 188 ft, diameter 2 in. from 188 to 220 ft, depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

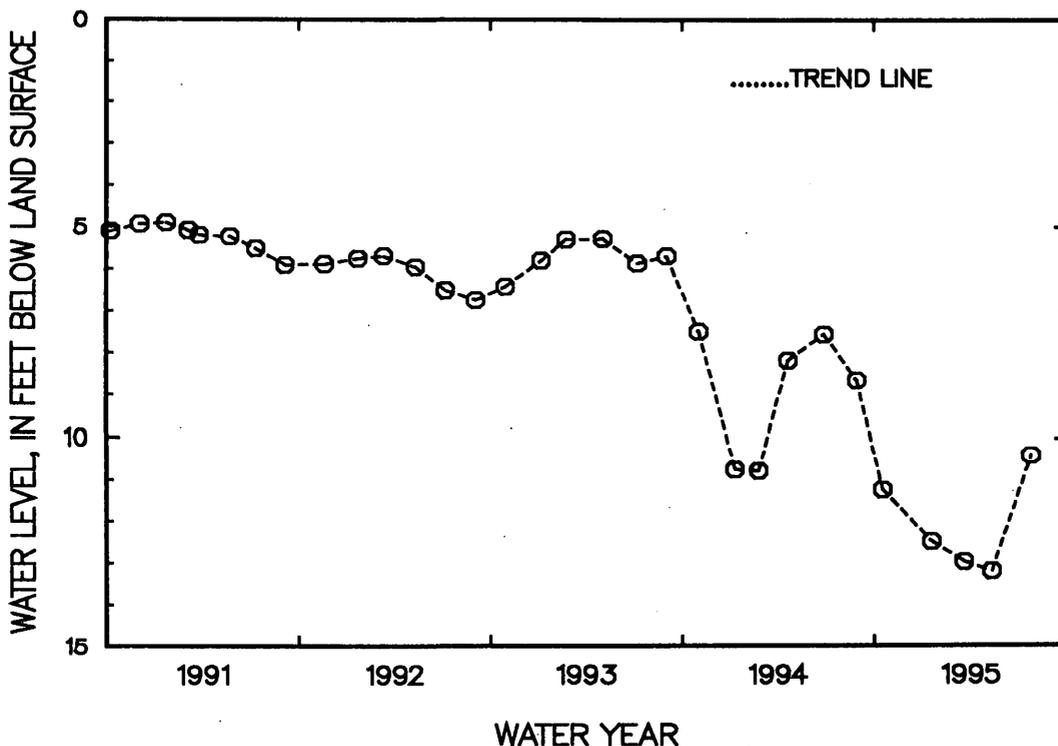
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft below land-surface datum, Jan. 22, 1991; lowest measured, 13.18 ft below land-surface datum, May 11, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	11.22	JAN 18	12.47	MAR 20	12.95	MAY 11	13.18	JUL 24	10.40

WATER YEAR 1995 HIGHEST 10.40 JUL 24, 1995 LOWEST 13.18 MAY 11, 1995



NORTHAMPTON COUNTY

370807075570805. Local number, 63F 54 SOW 182D.

LOCATION.--Lat 37°08'07", long 75°57'08", Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 55 ft, screened 45 to 55 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

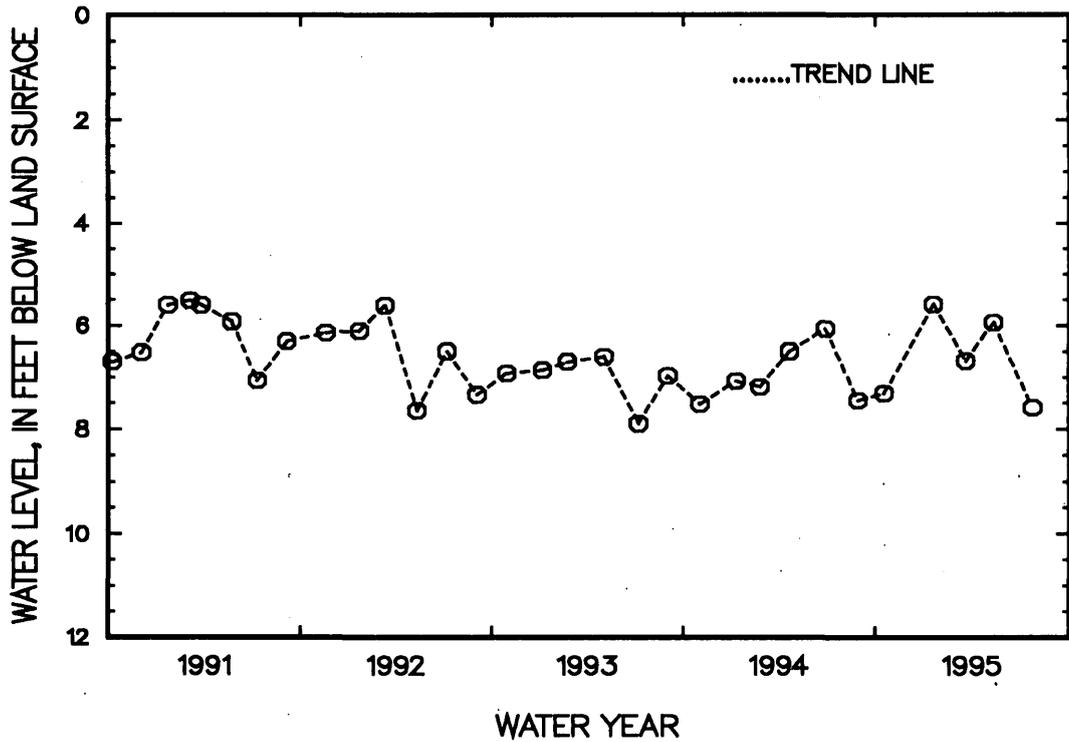
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.20 ft below land-surface datum, May 7, 1990; lowest measured, 7.90 ft below land-surface datum, July 8, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	7.31	JAN 18	5.59	MAR 20	6.68	MAY 11	5.94	JUL 24	7.59

WATER YEAR 1995 HIGHEST 5.59 JAN 18, 1995 LOWEST 7.59 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

370807075570806. Local number, 63F 55 SOW 182E.

LOCATION.--Lat 37°08'07", long 75°57'08", Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

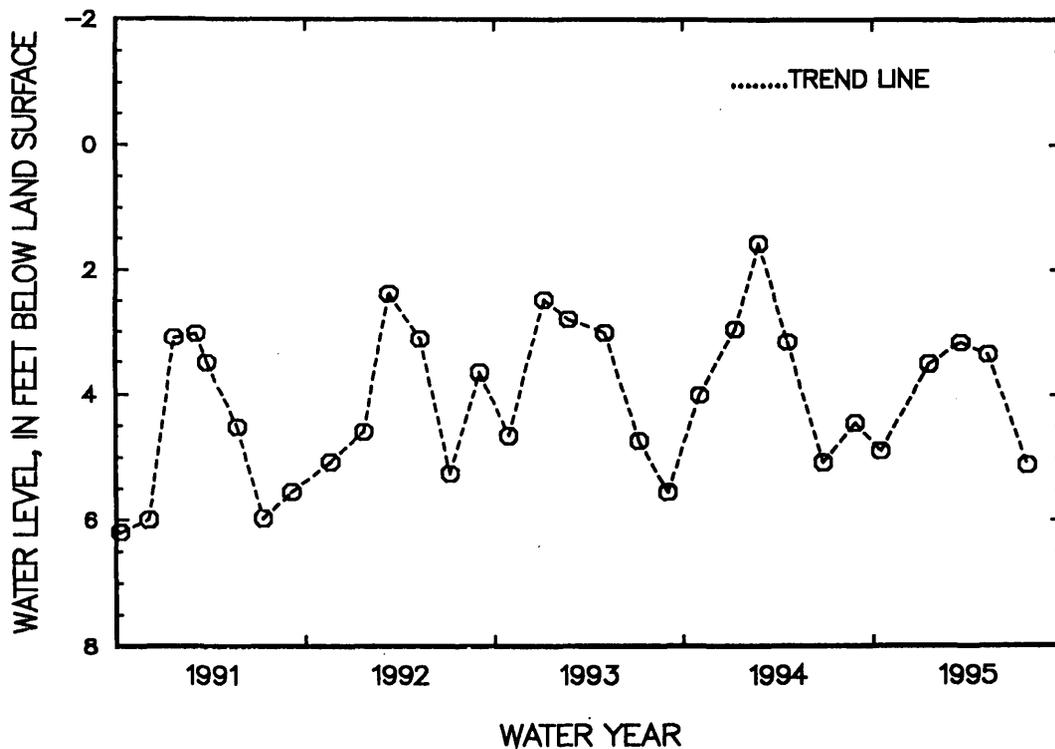
PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.57 ft below land-surface datum, Feb. 24, 1994; lowest measured, 6.20 ft below land-surface datum, Oct. 9, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	4.89	JAN 18	3.51	MAR 20	3.17	MAY 11	3.36	JUL 24	5.11

WATER YEAR 1995 HIGHEST 3.17 MAR 20, 1995 LOWEST 5.11 JUL 24, 1995



NORTHAMPTON COUNTY

371709075560801. Local number, 63G 15 SOW 104C.

LOCATION.--Lat 37°17'09", long 75°56'08", Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 310 ft, screened 300 to 310 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 15, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.24 ft above land-surface datum prior to Nov. 10, 1986; 1.75 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

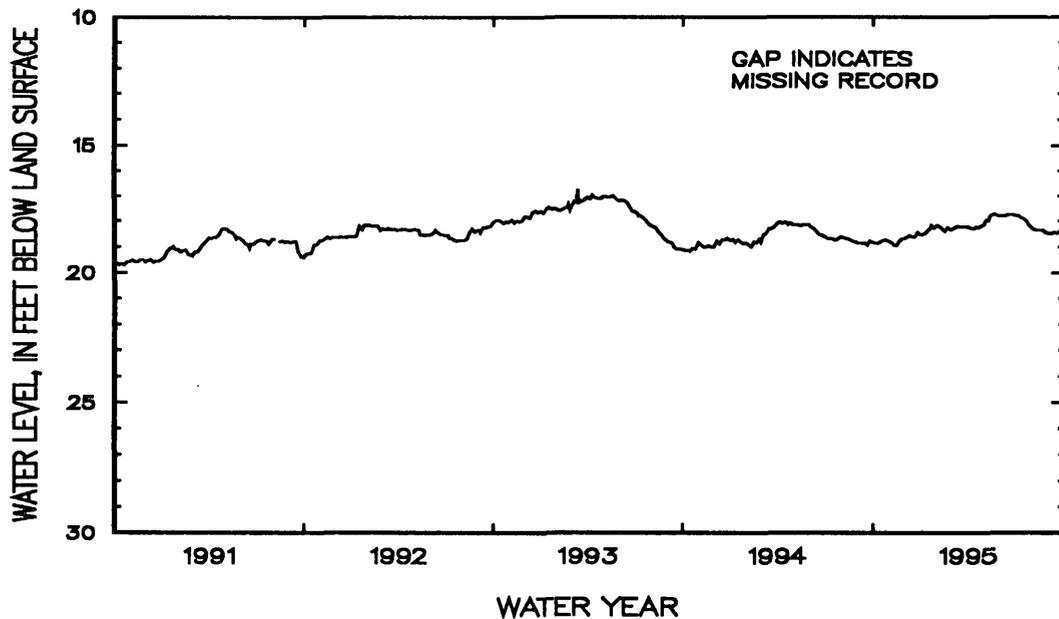
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 16.76 ft below land-surface datum, Mar. 13, 1993; lowest measured, 27.96 ft below land-surface datum, Oct. 8, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.85	18.83	18.60	18.50	18.21	18.27	18.27	17.96	17.80	17.79	18.33	18.48
10	18.86	18.92	18.56	18.44	18.30	18.20	18.30	17.98	17.80	17.87	18.35	18.43
15	18.80	18.95	18.60	18.33	18.38	18.21	18.23	17.76	17.74	17.92	18.35	18.46
20	18.74	18.78	18.60	18.18	18.25	18.23	18.25	17.72	17.75	18.00	18.34	18.41
25	18.73	18.68	18.43	18.27	18.32	18.22	18.19	17.78	17.75	18.16	18.43	18.33
EOM	18.78	18.68	18.53	18.17	18.32	18.23	18.16	17.79	17.78	18.29	18.47	18.33

WATER YEAR 1995 HIGHEST INSTANTANEOUS 17.55 JUN 13, 1995 LOWEST INSTANTANEOUS 18.96 NOV 12, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371709075560802. Local number, 63G 16 SOW 104B.

LOCATION.--Lat 37°17'09", 75°56'08", Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 240 ft, screened 230 to 240 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Feb. 29, 1988; 0.9 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

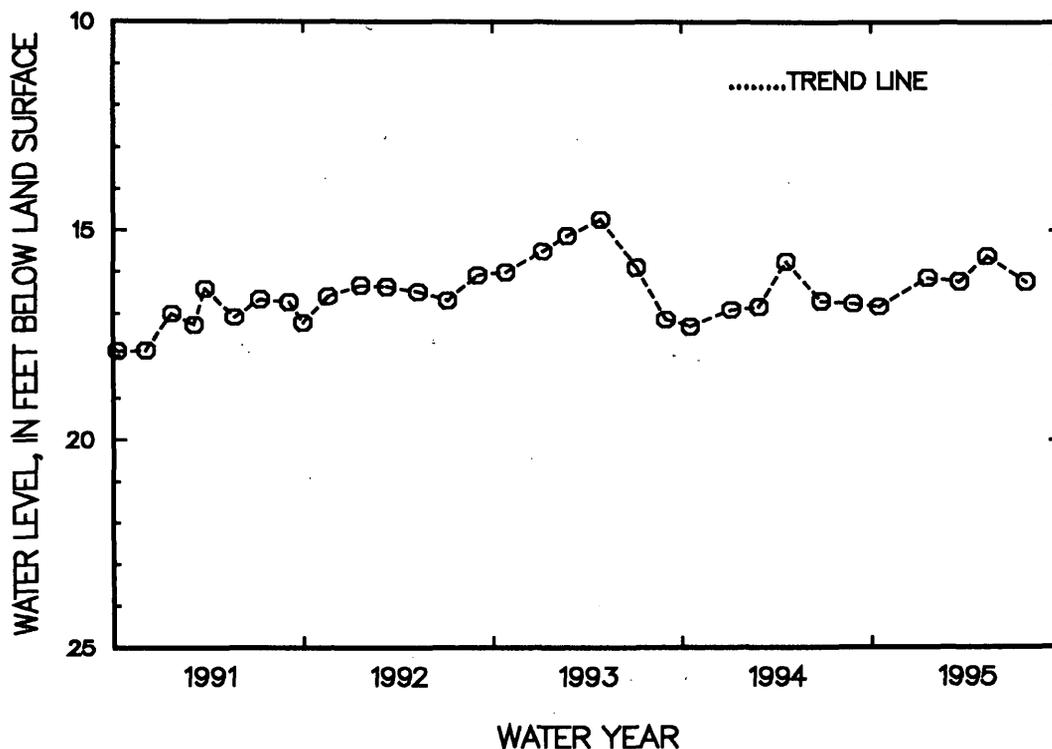
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.93 ft below land-surface datum, May 25, 1983; lowest measured, 23.47 ft below land-surface datum, Oct. 8, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	16.81	JAN 18	16.13	MAR 20	16.21	MAY 11	15.61	JUL 24	16.21

WATER YEAR 1995 HIGHEST 15.61 MAY 11, 1995 LOWEST 16.81 OCT 17, 1994



NORTHAMPTON COUNTY

371709075560803. Local number, 63G 17 SOW 104A.

LOCATION.--Lat 37°17'09", long 75°56'08", Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of casing, 0.05 ft above land-surface datum prior to Feb. 29, 1988; 0.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

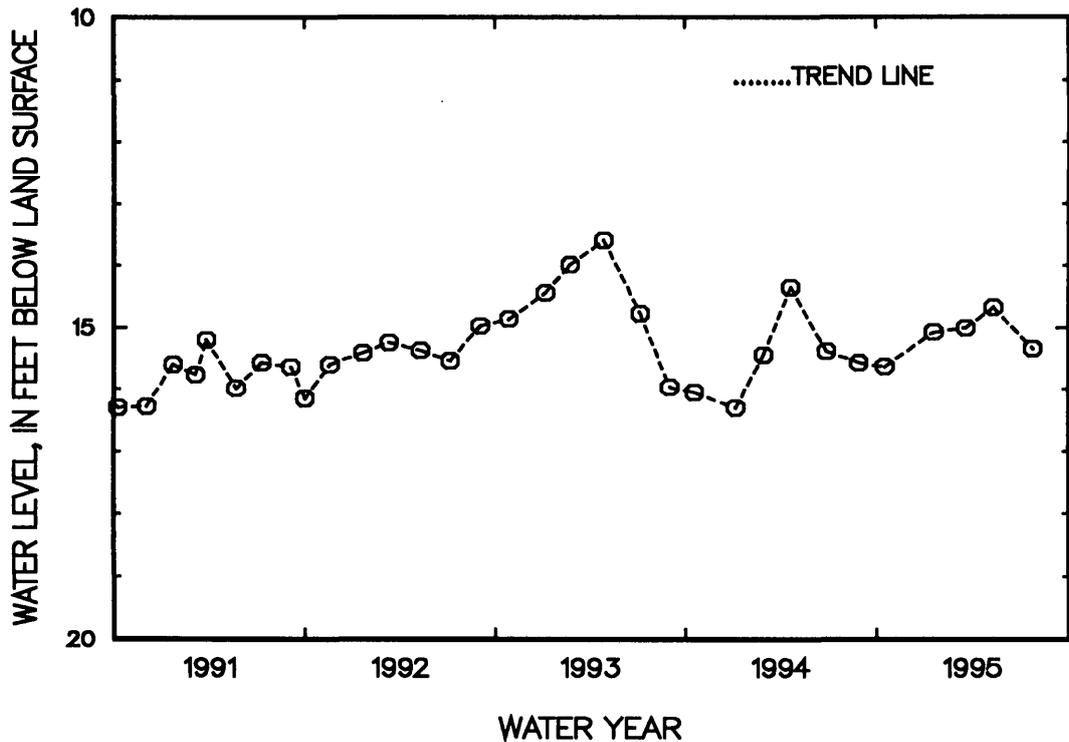
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.59 ft below land-surface datum, Apr. 28, 1993; lowest measured, 21.99 ft below land-surface datum, Oct. 8, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	15.63	JAN 18	15.07	MAR 20	15.00	MAY 11	14.67	JUL 24	15.34

WATER YEAR 1995 HIGHEST 14.67 MAY 11, 1995 LOWEST 15.63 OCT 17, 1994



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371735075572601. Local number, 63G 20 SOW 075.

LOCATION.--Lat 37°17'35", long 75°57'26", Hydrologic Unit 02080101, at Kane Miller Corporation plant 0.4 mi north of State Highway 639, 0.7 mi northwest of intersection of State Highways 637 and 639, and 0.9 mi east of Cheriton. Owner: Kane Miller Corporation.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 20 in. to 56 ft, diameter 10 in. from 56 to 240 ft, depth 240 ft, screened 56 to 61 ft, 95 to 100 ft, 160 to 165 ft, 188 to 193 ft, 210 to 215 ft, 235 to 240 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--November 1974 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

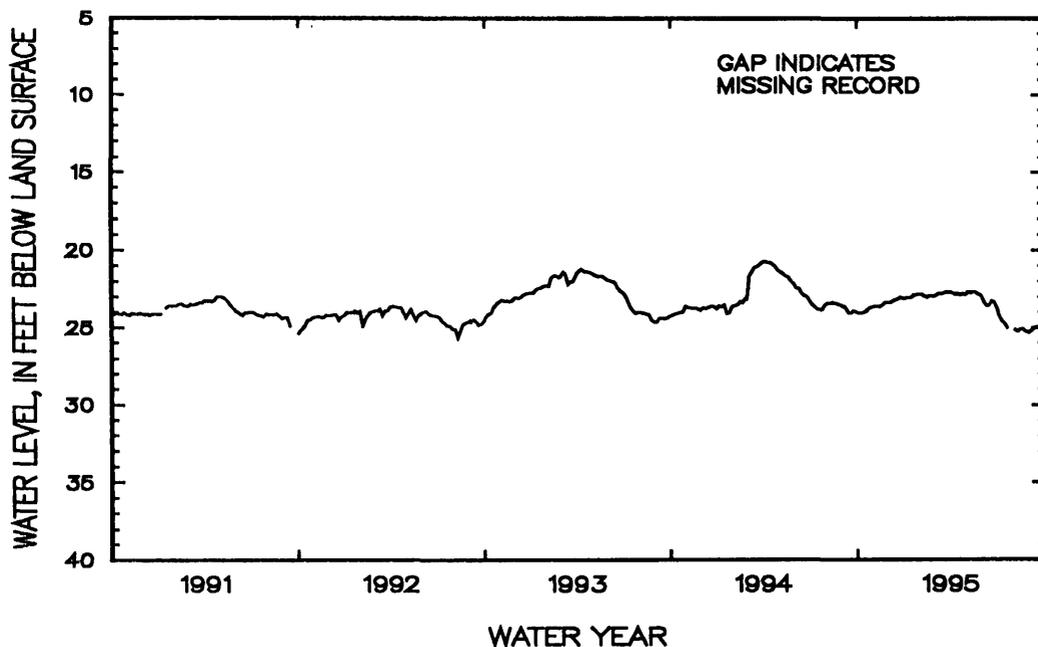
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 20.63 ft below land-surface datum, Apr. 1, 1994; lowest recorded, 85.57 ft below land-surface datum, Aug. 5, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.04	23.61	23.35	23.07	22.83	22.88	22.75	22.70	23.33	24.25	25.16	25.18
10	24.02	23.60	23.27	23.04	22.95	22.78	22.82	22.73	23.54	24.57	25.21	25.05
15	24.00	23.63	23.18	23.02	23.02	22.79	22.80	22.70	23.57	24.73	25.09	24.98
20	23.90	23.50	23.13	22.85	22.90	22.75	22.86	22.72	23.27	25.00	25.10	24.97
25	23.72	23.35	23.02	22.85	22.94	22.68	22.81	22.84	23.34	---	25.23	24.80
EOM	23.63	23.33	23.08	22.82	22.95	22.70	22.86	22.90	23.71	---	25.30	24.67

WATER YEAR 1995 HIGHEST INSTANTANEOUS 22.60 MAR 22, 1995 LOWEST INSTANTANEOUS 25.32 SEP 01, 1995

DAILY LOW-WATER LEVELS



NORTHAMPTON COUNTY

371709075560804. Local number, 63G 21 SOW 104S.

LOCATION.--Lat 37°17'09", long 75°56'08", Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 36 ft, screened 26 to 36 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

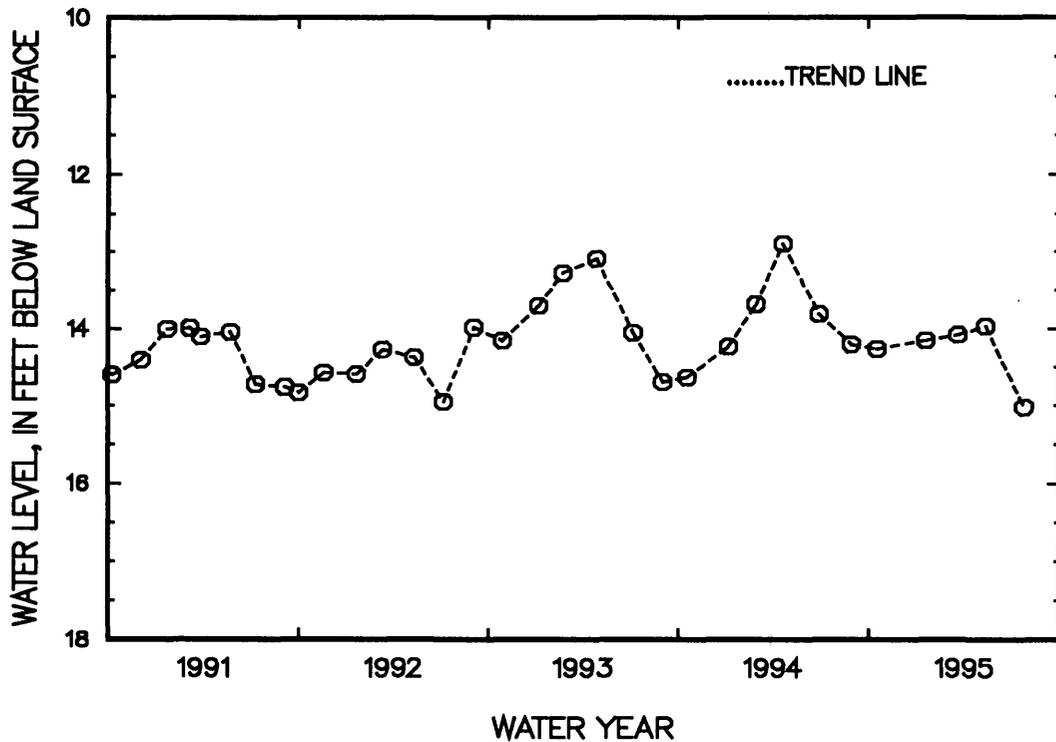
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.25 ft below land-surface datum, Nov. 23, 1979; lowest measured, 16.35 ft below land-surface datum, Nov. 15, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	14.26	JAN 18	14.15	MAR 20	14.08	MAY 11	13.97	JUL 24	15.02

WATER YEAR 1995 HIGHEST 13.97 MAY 11, 1995 LOWEST 15.02 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371653075584801. Local number, 63G 22 SOW 111A.

LOCATION.--Lat 37°16'53", long 75°58'48", Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 150 ft, screened 140 to 150 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum prior to Apr. 27, 1987; 1.60 ft Apr. 27, 1987, to Feb. 29, 1988; 1.1 ft Mar. 1, 1988, to June 19, 1989; 0.80 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

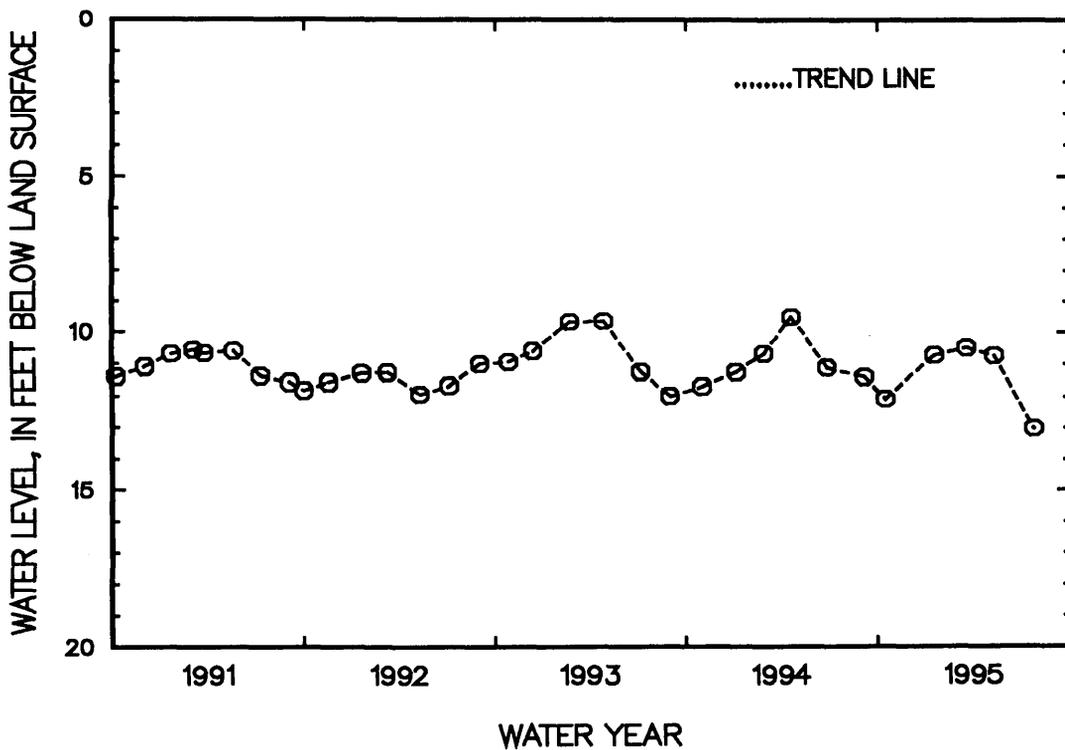
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.80 ft below land-surface datum, Feb. 2, 1984; lowest measured, 14.51 ft below land-surface datum, Feb. 17, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	12.08	JAN 18	10.72	MAR 20	10.48	MAY 11	10.73	JUL 24	13.03

WATER YEAR 1995 HIGHEST 10.48 MAR 20, 1995 LOWEST 13.03 JUL 24, 1995



NORTHAMPTON COUNTY

371653075584802. Local number, 63G 23 SOW 111B.

LOCATION.--Lat 37°16'53", long 75°58'48", Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 280 ft, screened 270 to 280 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.42 ft above land-surface datum prior to July 20, 1987; 1.56 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

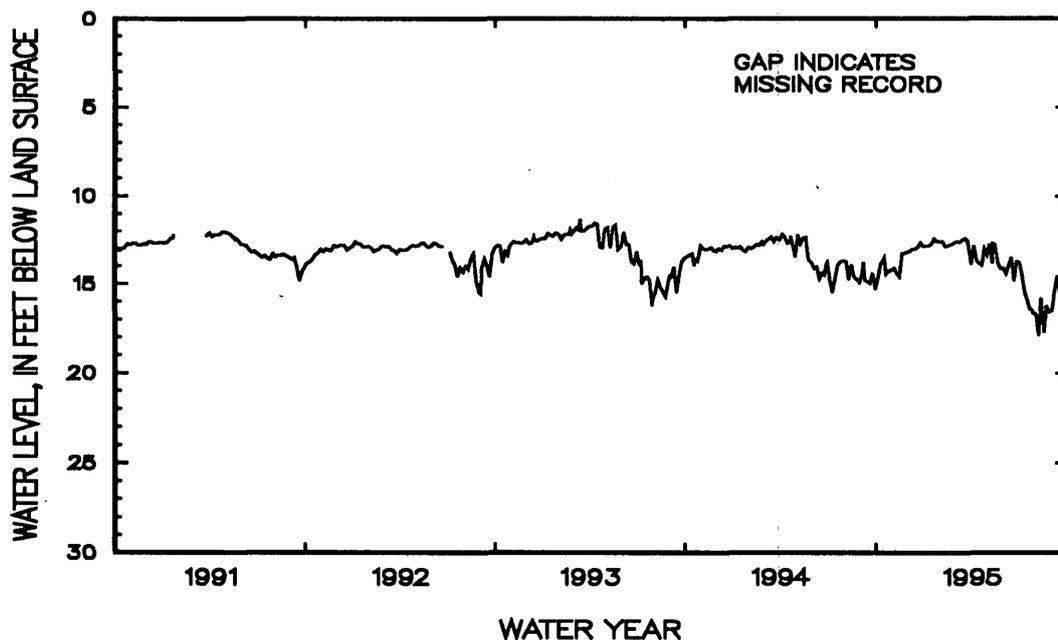
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.01 ft below land-surface datum, Dec. 30, 1982; lowest measured, 22.47 ft below land-surface datum, Sept. 15, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.66	14.12	13.14	12.82	12.58	12.58	12.81	12.73	14.42	14.47	17.92	15.36
10	13.87	14.40	13.03	12.84	12.87	12.61	13.68	13.85	13.99	15.42	15.77	14.54
15	13.64	14.58	13.02	12.72	12.83	12.47	13.83	12.75	13.50	15.90	17.72	15.59
20	14.44	13.28	12.91	12.42	12.75	12.40	13.96	13.81	14.83	16.41	16.21	15.28
25	14.30	13.26	12.65	12.58	12.72	12.57	12.99	14.14	13.72	16.66	16.59	14.06
EOM	14.22	13.20	12.87	12.56	12.61	13.90	13.37	14.13	13.79	16.70	16.49	13.95

WATER YEAR 1995 HIGHEST INSTANTANEOUS 12.26 MAR 22, 1995 LOWEST INSTANTANEOUS 17.92 AUG 05, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371653075584803. Local number, 63G 24 SOW 111C.

LOCATION.--Lat 37°16'53", long 75°58'48", Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 330 ft, screened 320 to 330 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.67 ft above land-surface datum prior to Feb. 28, 1988; 1.95 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

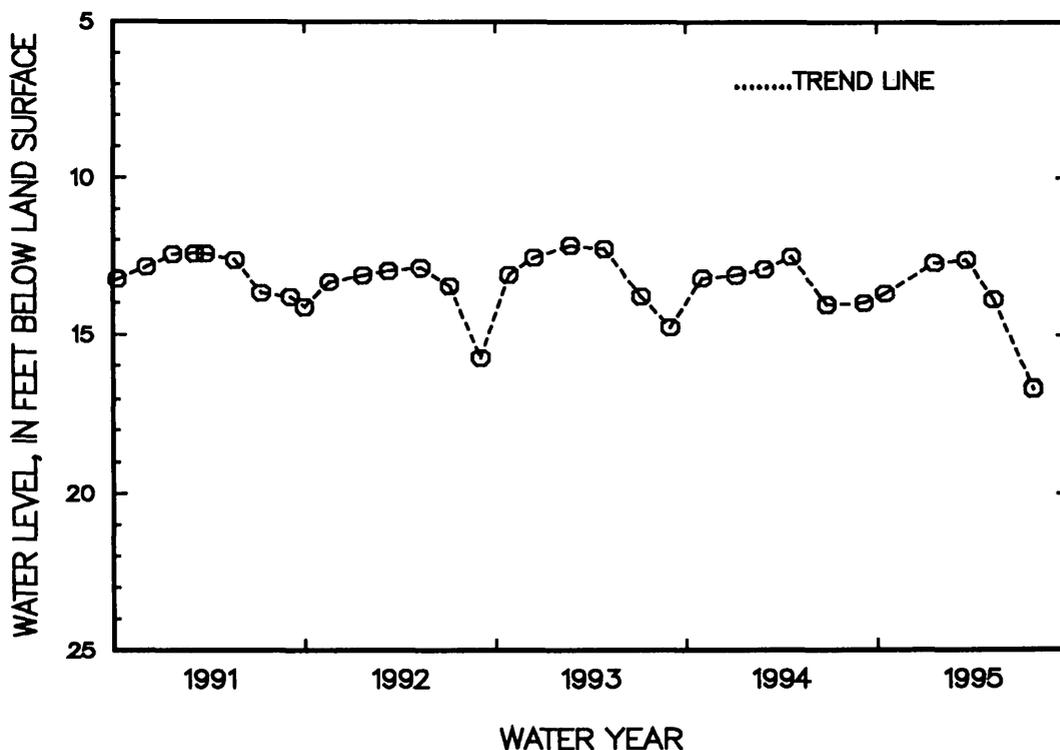
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.01 ft below land-surface datum, Feb. 17, 1981; lowest measured, 22.71 ft below land-surface datum, Sept. 15, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	13.69	JAN 18	12.73	MAR 20	12.62	MAY 11	13.88	JUL 24	16.66

WATER YEAR 1995 HIGHEST 12.62 MAR 20, 1995 LOWEST 16.66 JUL 24, 1995



NORTHAMPTON COUNTY

371653075584804. Local number, 63G 25 SOW 111S.

LOCATION.--Lat 37°16'53", long 75°58'48", Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 1.5 in., depth 70 ft, screened 60 to 70 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.64 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

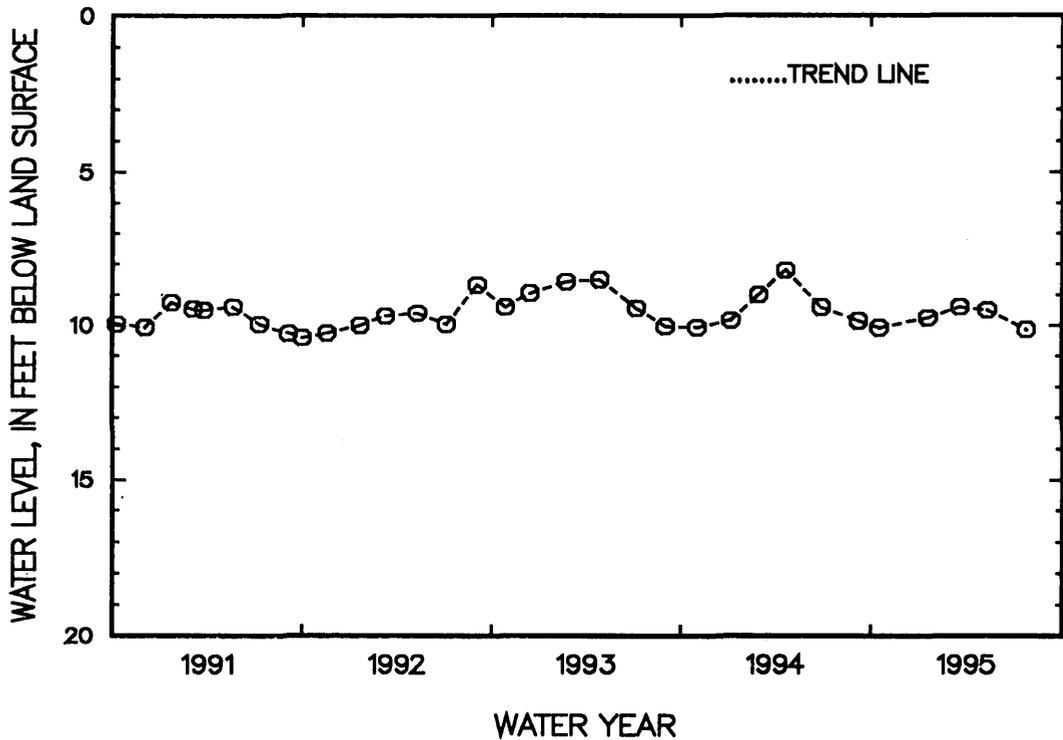
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.96 ft below land-surface datum, Apr. 18, 1989; lowest measured, 10.82 ft below land-surface datum, Nov. 11, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	10.08	JAN 18	9.75	MAR 20	9.40	MAY 11	9.50	JUL 24	10.14

WATER YEAR 1995 HIGHEST 9.40 MAR 20, 1995 LOWEST 10.14 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

371726075572801. Local number, 63G 26 SOW 160.

LOCATION.--Lat 37°17'26", long 75°57'28", Hydrologic Unit 02080110, at Kane Miller Corporation plant, 0.4 mi north of State Highway 639, 0.7 mi northwest of intersection of State Highways 637 and 639, and 0.8 mi east of Cheriton. Owner: Kane Miller Corporation.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 2 in., depth 320 ft, screened 310 to 320 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 34 ft above sea level, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by pumpage.

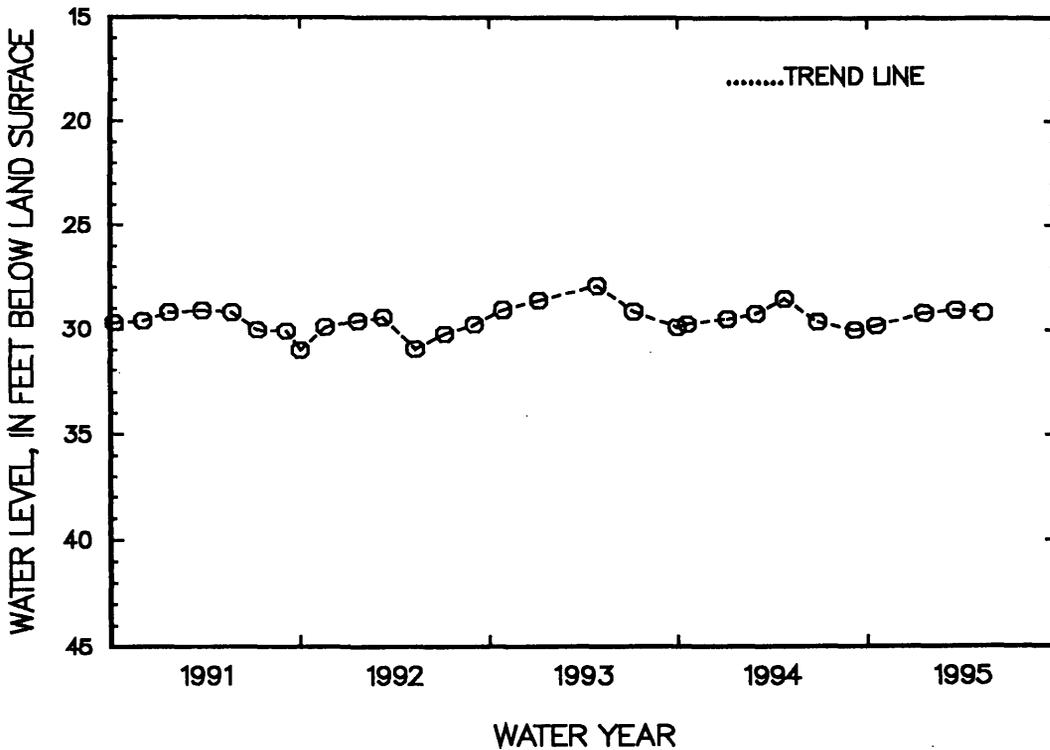
PERIOD OF RECORD.--June 1979 to current year (discontinued). Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.99 ft below land-surface datum, July 23, 1980; lowest measured, 74.90 ft below land-surface datum, Oct. 16, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
OCT 18	29.78	JAN 18	29.19	MAR 20	29.03	MAY 11	29.15

WATER YEAR 1995 HIGHEST 29.03 MAR 20, 1995 LOWEST 29.78 OCT 18, 1994



NORTHAMPTON COUNTY

371710075552201. Local number, 63G 27 SOW 161.

LOCATION.--Lat 37°17'10", long 75°55'22", Hydrologic Unit 02080110, 15 ft south of State Highway 639, 100 ft southeast of intersection of State Highways 639 and 1801, and at town of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 185 ft, screened 175 to 185 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5.5 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

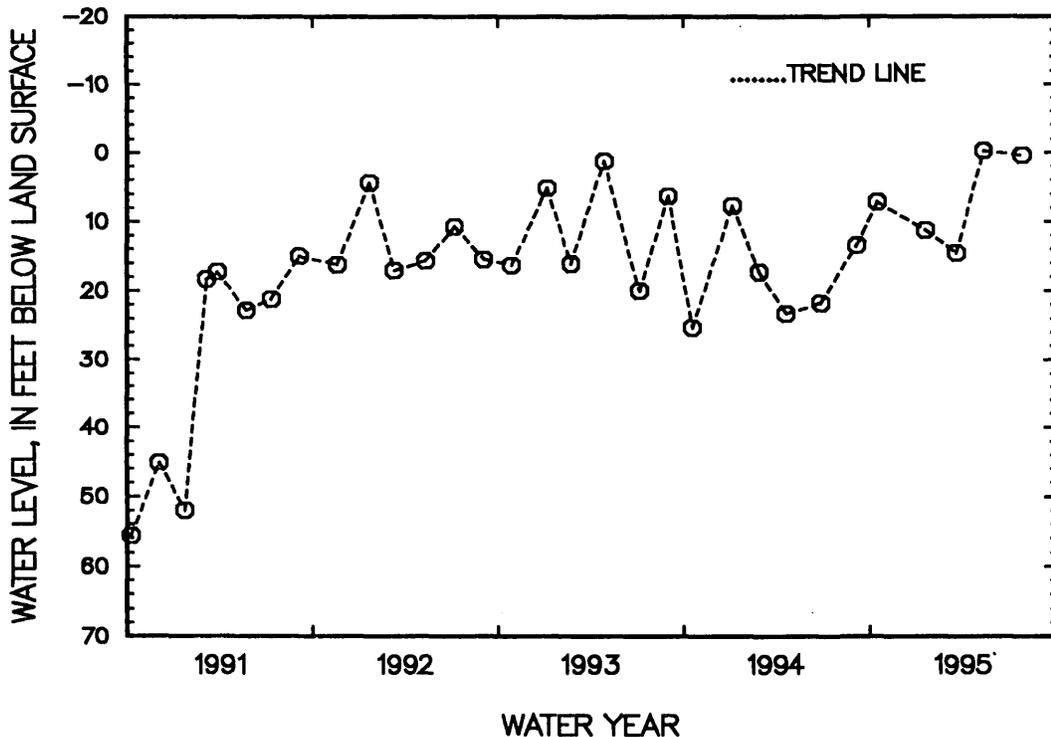
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft above land-surface datum, May 11, 1995; lowest measured, 70.91 ft below land-surface datum, Dec. 18, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	7.18	JAN 18	11.22	MAR 20	14.55	MAY 11	+0.25	JUL 24	0.42

WATER YEAR 1995 HIGHEST +0.25 MAY 11, 1995 LOWEST 14.55 MAR 20, 1995

+ Water level is above land-surface datum.



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

37270507555901. Local number, 63H 4 SOW 103C.

LOCATION.--Lat 37°27'06", long 75°55'59", Hydrologic Unit 02080109, 0.2 mi north of State Highway 619, 0.5 mi northwest of intersection of State Highways 619 and 622, and 0.5 mi northwest of Bridgetown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 235 ft, screened 225 to 235 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Mar 1, 1988; 0.8 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

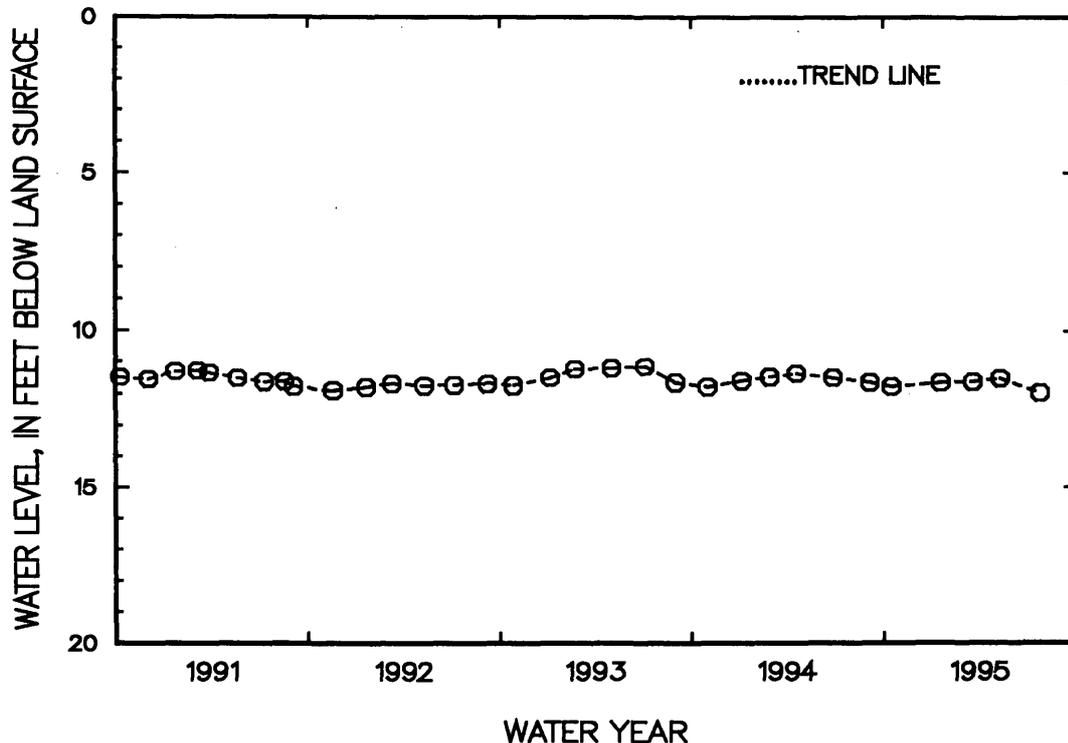
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in file of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.15 ft below land-surface datum, May 1, 1979; lowest measured, 12.56 ft below land-surface datum, Nov. 11, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	11.75	JAN 18	11.62	MAR 20	11.59	MAY 10	11.49	JUL 24	11.93

WATER YEAR 1995 HIGHEST 11.49 MAY 10, 1995 LOWEST 11.93 JUL 24, 1995



NORTHAMPTON COUNTY

37270507555902. Local number, 63H 5 SOW 103B.

LOCATION.--Lat 37°27'05", long 75°55'59", Hydrologic Unit 02080109, 0.2 mi north of State Highway 619, 0.5 mi northwest of intersection of State Highways 619 and 622, and 0.5 mi northwest of Bridgetown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 132 ft, screened 122 to 132 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 0.55 ft above land-surface datum prior to Mar. 1, 1988; 1.25 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

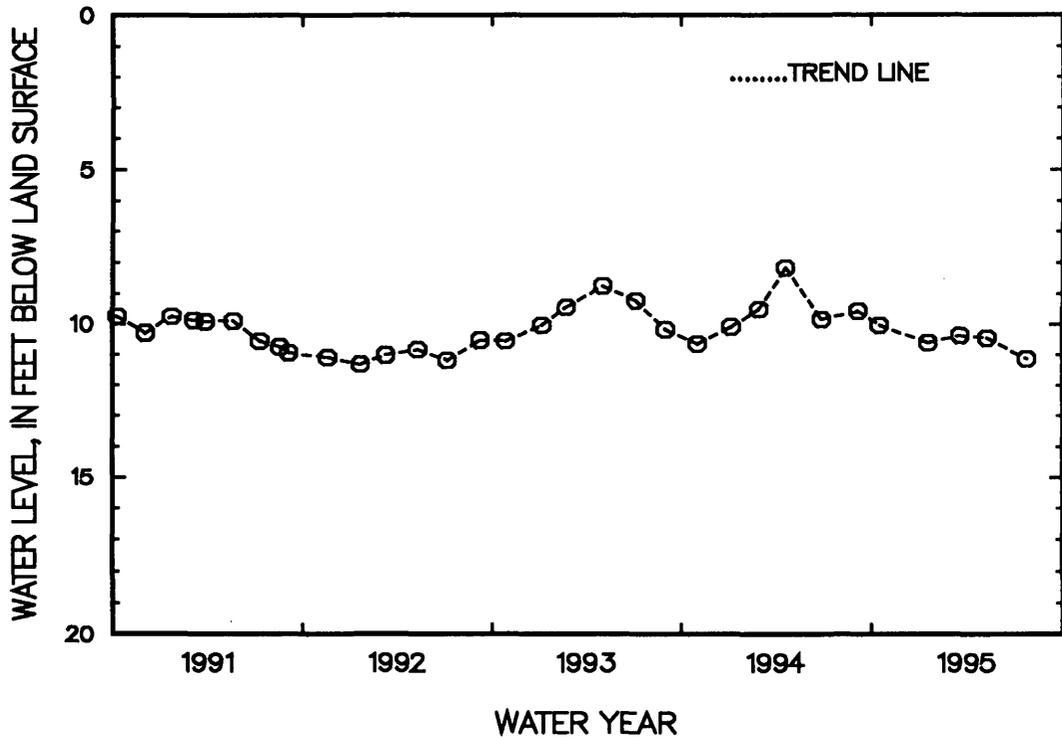
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.90 ft below land-surface datum, Feb. 1, 1979; lowest measured, 12.00 ft below land-surface datum, Jan. 9, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	10.03	JAN 18	10.60	MAR 20	10.36	MAY 10	10.44	JUL 24	11.12

WATER YEAR 1995 HIGHEST 10.03 OCT 17, 1994 LOWEST 11.12 JUL 24, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

372705075555903. Local number, 63H 6 SOW 103A.

LOCATION.--Lat 37°27'05", long 75°55'59", Hydrologic Unit 02080109, 0.2 mi north of State Highway 619, 0.5 mi northwest of intersection of State Highways 619 and 622, and 0.5 mi northwest of Bridgetown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 37 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 0.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

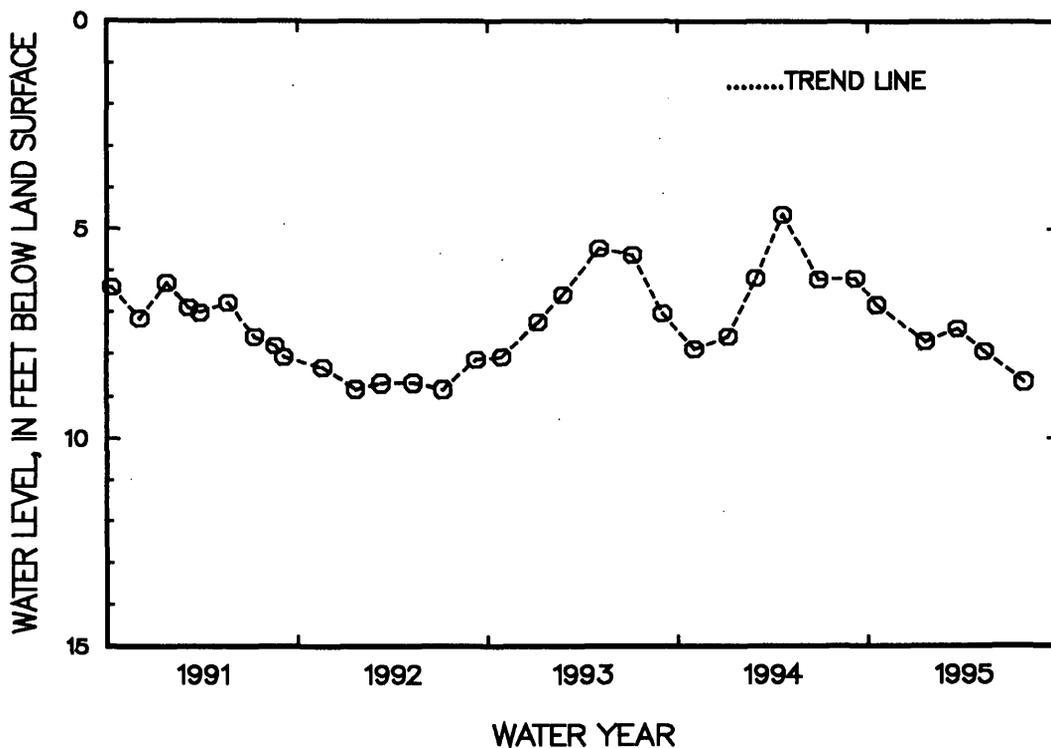
PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.94 ft below land-surface datum, Aug. 2, 1979; lowest measured, 9.93 ft below land-surface datum, Jan. 9, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	6.82	JAN 18	7.70	MAR 20	7.39	MAY 10	7.95	JUL 24	8.65

WATER YEAR 1995 HIGHEST 6.82 OCT 17, 1994 LOWEST 8.65 JULY 24, 1995



NORTHAMPTON COUNTY

373230075541001. Local number, 63J 1 SOW 113A.

LOCATION.--Lat 37°32'16", long 75°54'07", Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.4 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 120 ft, screened 110 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above sea level, from topographic map. Measuring point:

Top of casing, 1.32 ft above land-surface datum prior to Oct. 6, 1988; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

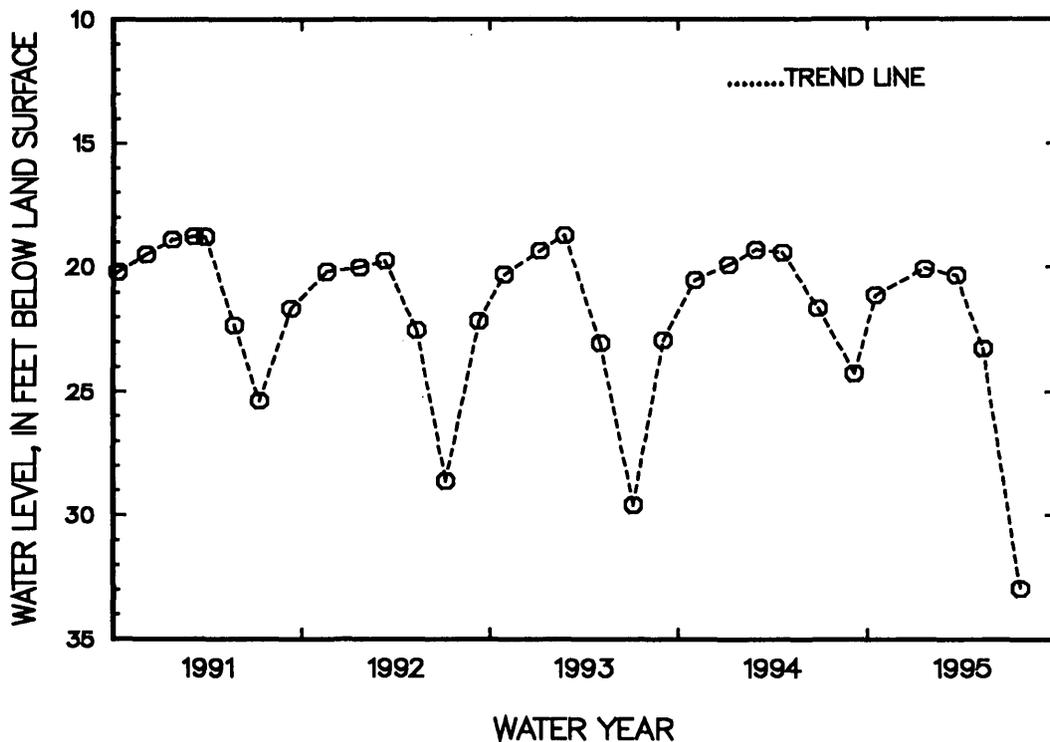
PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.79 ft below land-surface datum, Apr. 21, 1983; lowest measured, 32.94 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	21.11	JAN 18	20.06	MAR 20	20.34	MAY 10	23.26	JUL 20	32.94

WATER YEAR 1995 HIGHEST 20.06 JAN 18, 1995 LOWEST 32.94 JUL 20, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

373230075541002. Local number, 63J 2 SOW 113B.

LOCATION.--Lat 37°32'16", long 75°54'07", Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.40 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 225 ft, screened 215 to 225 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above sea level, from topographic map. Measuring point: Top of casing, 0.52 ft above land-surface datum prior to Oct. 6, 1988; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

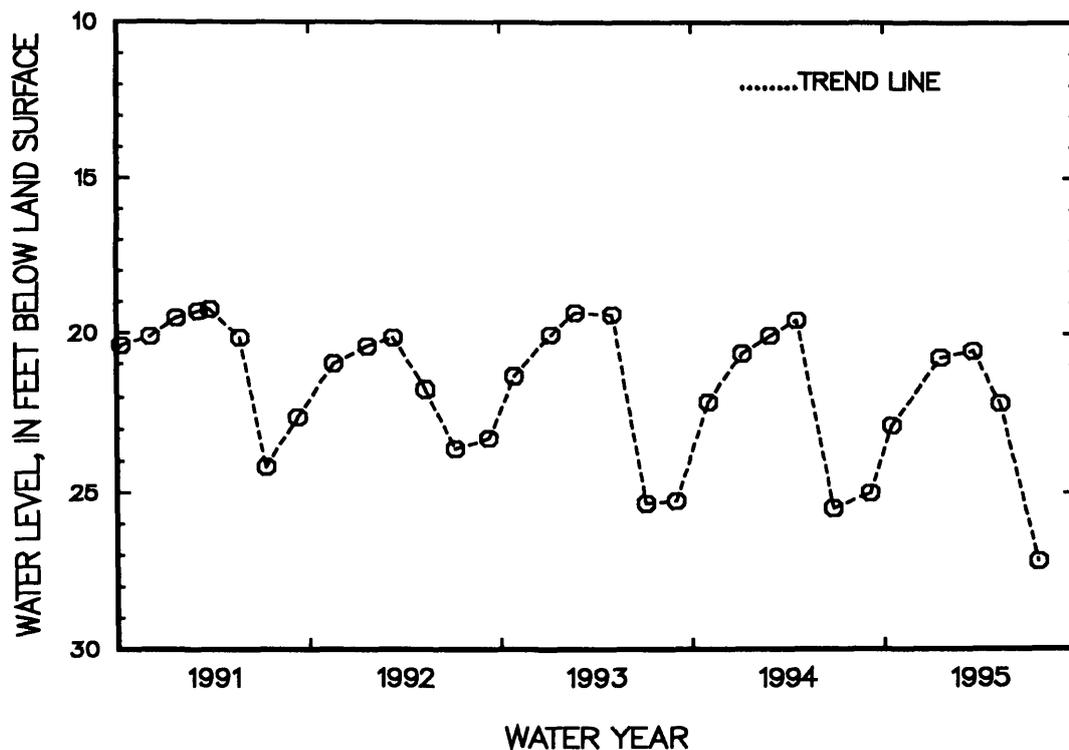
PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.20 ft below land-surface datum, Apr. 21, 1983; lowest measured, 27.18 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	22.85	JAN 18	20.76	MAR 20	20.54	MAY 10	22.15	JUL 20	27.18

WATER YEAR 1995 HIGHEST 20.54 MAR 20, 1995 LOWEST 27.18 JUL 20, 1995



NORTHAMPTON COUNTY

373230075541003. Local number, 63J 3 SOW 113C.

LOCATION.--Lat 37°32'16", long 75°54'07", Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.4 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 290 ft, screened 280 to 290 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above sea level, from topographic map. Measuring point: Top of casing, 1.44 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

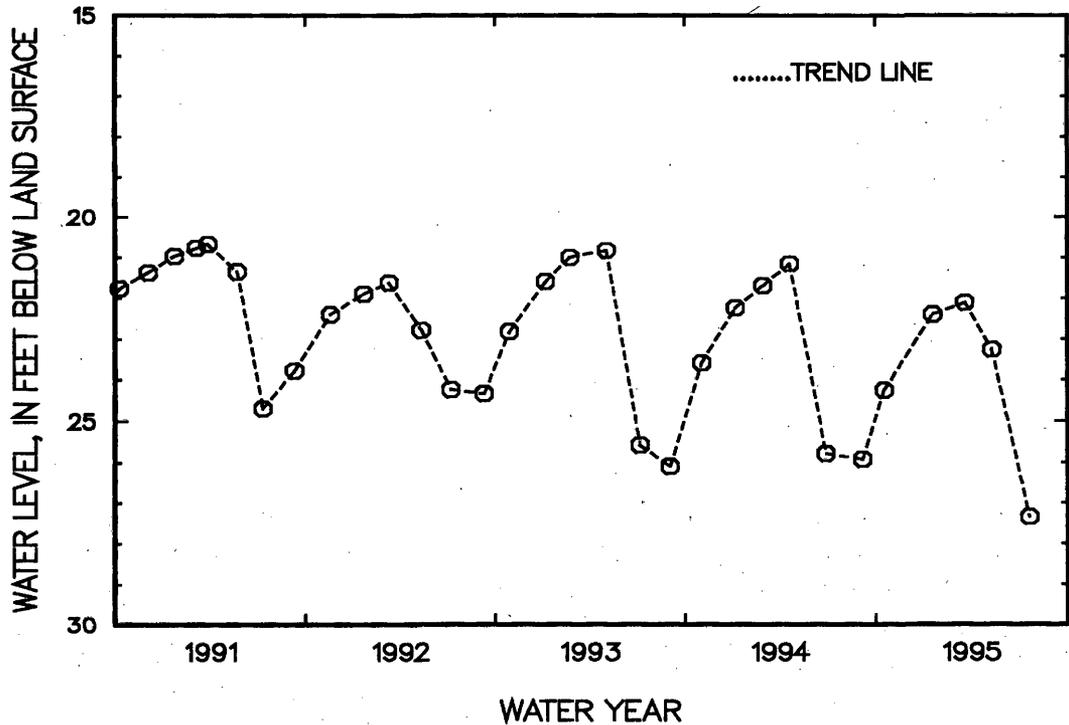
PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.26 ft below land-surface datum, Apr. 21, 1983; lowest measured, 27.34 ft below land-surface datum, July 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	24.25	JAN 18	22.40	MAR 20	22.11	MAY 10	23.26	JUL 20	27.34

WATER YEAR 1995 HIGHEST 22.11 MAR 20, 1995 LOWEST 27.34 JUL 20, 1995



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

373059075484501. Local number, 64J 9 SOW 112A.

LOCATION.--Lat 37°30'59", long 75°48'45", Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 660 and 600, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 135 ft, screened 125 to 135 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 30 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum prior to Feb. 29, 1988; 0.7 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

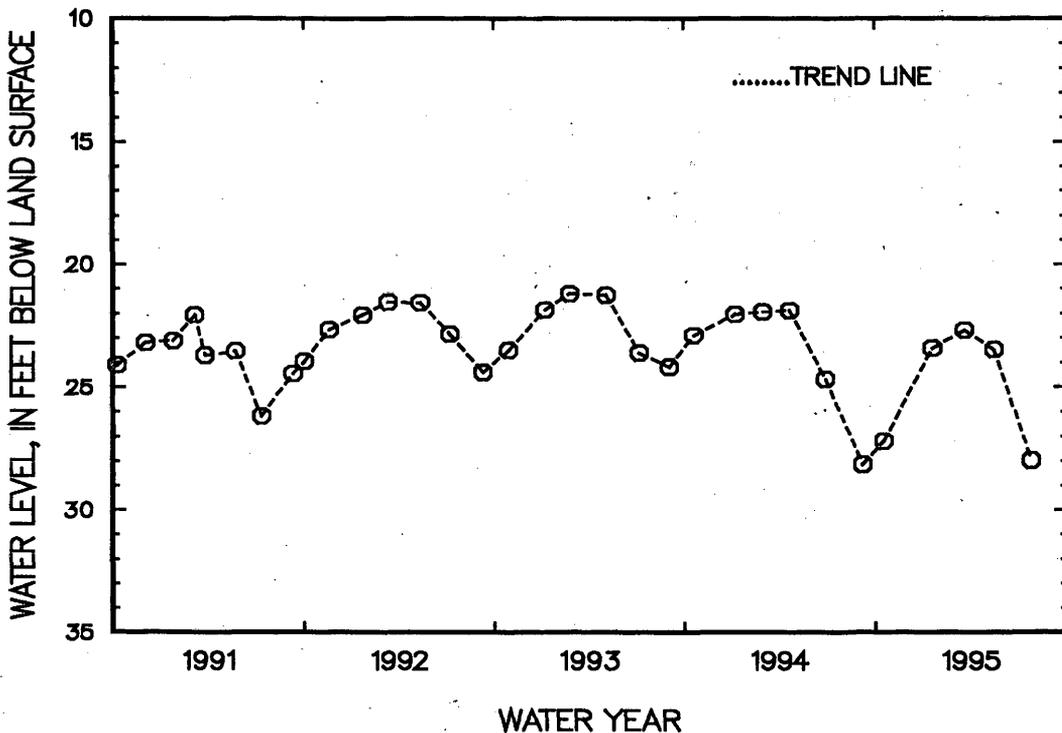
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.19 ft below land-surface datum, Feb. 22, 1993; lowest measured, 33.57 ft below land-surface datum, July 18, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	27.19	JAN 18	23.42	MAR 20	22.68	MAY 15	23.47	JUL 24	27.96

WATER YEAR 1995 HIGHEST 22.68 MAR 20, 1995 LOWEST 27.96 JUL 24, 1995



NORTHAMPTON COUNTY

373059075484502. Local number, 64J 10 SOW 112B.

LOCATION.--Lat 37°30'59", long 75°48'45", Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 600 and 660, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 210 ft, screened 200 to 210 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 30 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum prior to Aug. 12, 1987; 1.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage prior to October 1991; seasonal and tidal effects thereafter.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

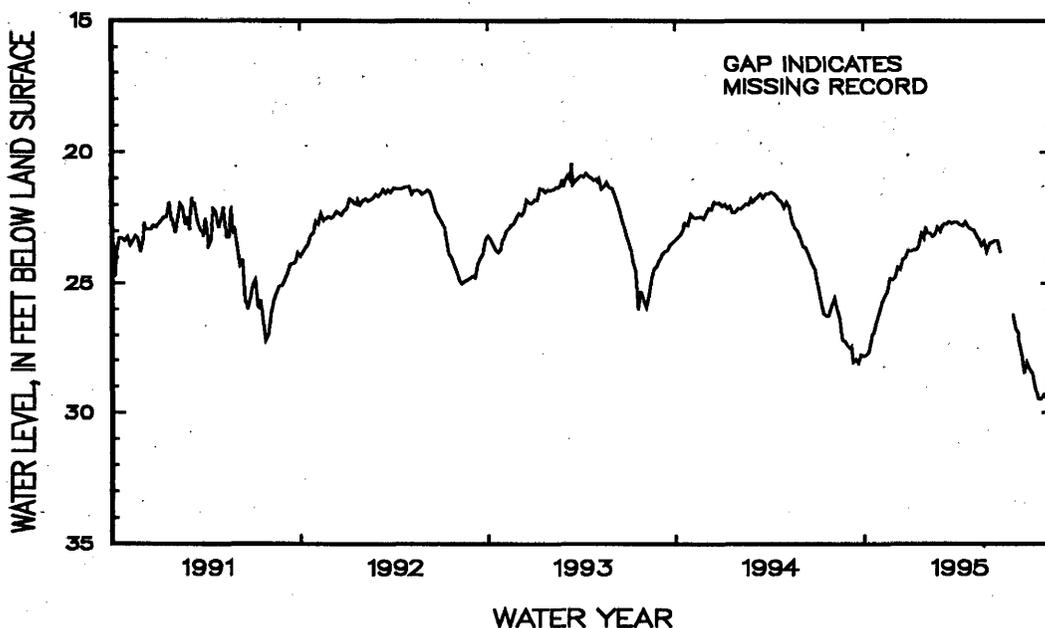
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 20.42 ft below land-surface datum, Mar. 13, 1993; lowest measured, 31.29 ft below land-surface datum, Oct. 1, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.78	25.73	24.39	23.72	23.07	22.73	22.76	23.15	23.43	---	28.47	29.47
10	27.68	25.52	24.47	23.71	23.20	22.74	22.80	23.32	23.37	---	28.05	29.30
15	27.20	25.33	24.07	23.56	23.12	22.64	22.65	23.55	23.37	26.23	28.30	29.45
20	26.92	24.83	24.02	23.10	22.85	22.70	22.84	23.40	23.78	26.76	28.49	28.78
25	26.50	24.87	23.74	23.28	23.01	22.65	22.93	23.79	---	27.18	29.04	28.73
EOM	26.10	24.78	23.76	23.06	22.86	22.66	22.95	23.47	---	27.71	29.46	28.28

WATER YEAR 1995 HIGHEST INSTANTANEOUS 22.43 MAR 21, 1995 LOWEST INSTANTANEOUS 29.59 AUG 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

NORTHAMPTON COUNTY

373059075484503. Local number, 64J 11 SOW 112C.

LOCATION.--Lat 37°30'59", long 75°48'45", Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 600 and 660, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 313 ft, screened 303 to 313 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 30 ft above sea level, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Apr. 27, 1987; 0.65 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

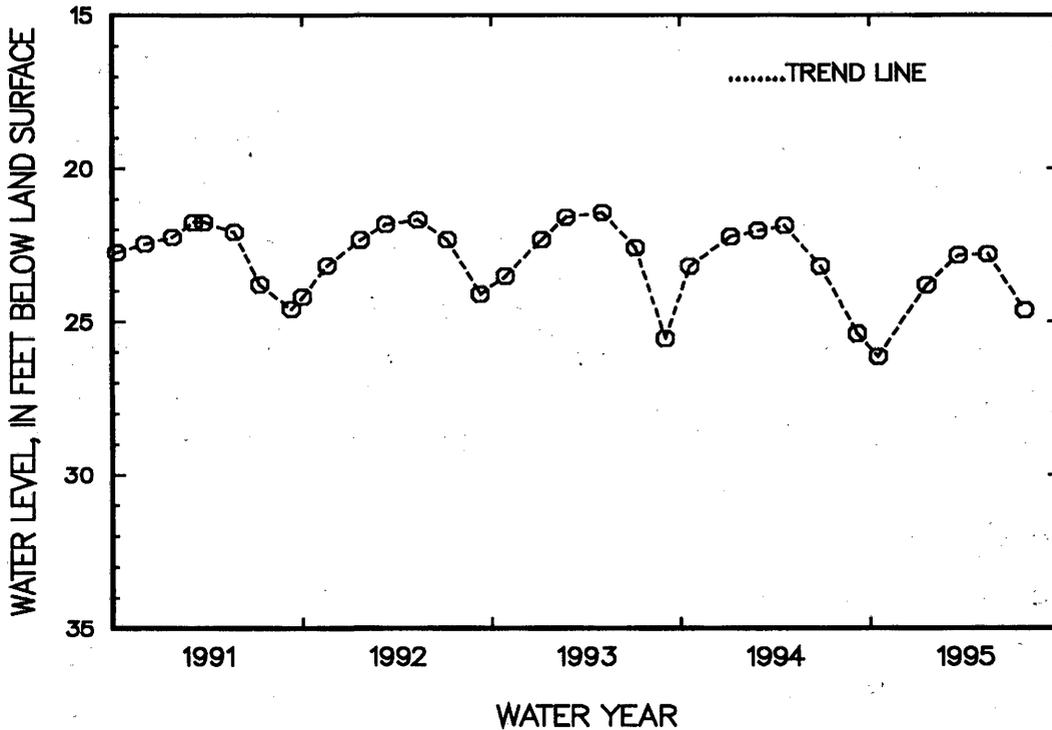
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.78 ft below land-surface datum, Mar. 29, 1984; lowest measured, 35.70 ft below land-surface datum, Dec. 5, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 17	26.13	JAN 18	23.81	MAR 20	22.84	MAY 15	22.81	JUL 24	24.63

WATER YEAR 1995 HIGHEST 22.81 MAY 15, 1995 LOWEST 26.13 OCT 17, 1994



NORTHAMPTON COUNTY

373046075482501. Local number, 64J 13 SOW 120.

LOCATION.--Lat 37°30'46", long 75°48'25", Hydrologic Unit 02080110, at American Original Corporation plant, 10 ft east of State Highway 603, 0.1 mi northeast of intersection of State Highways 603 and 660, and 0.3 mi south of Willis Wharf. Owner: American Original Corporation.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 105 ft, screened 95 to 105 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 31, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 7 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 0.7 ft above land-surface datum prior to Aug. 11, 1987; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage prior to October 1991; seasonal and tidal effects thereafter.

PERIOD OF RECORD.--August 1978 to June 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

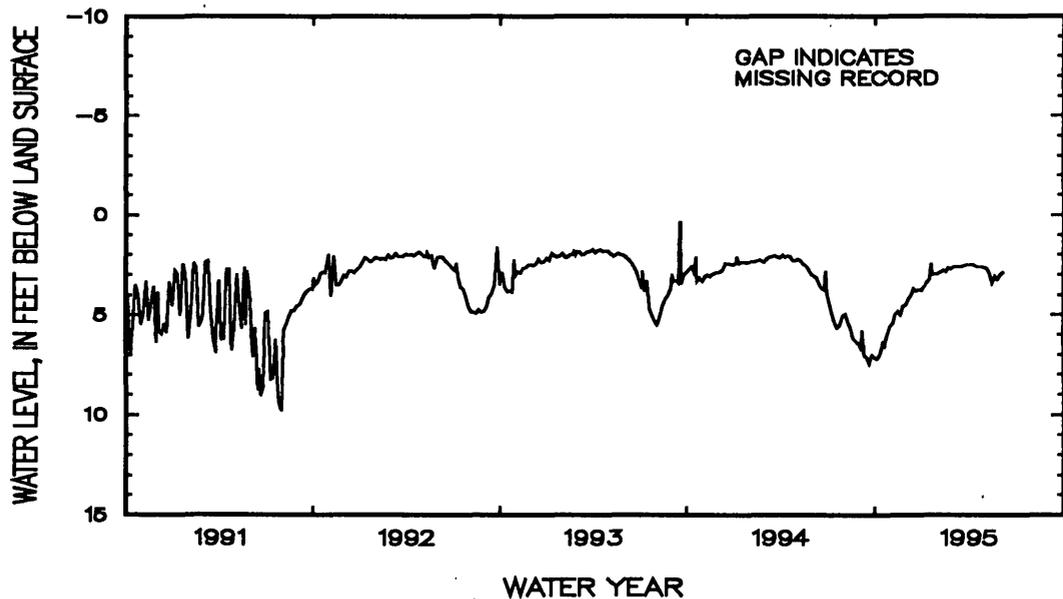
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.09 ft above land-surface datum, Sept. 25, 1992; lowest measured, 17.90 ft below land-surface datum, Dec. 1, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, OCTOBER 1994 TO JUNE 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.24	5.46	4.22	3.57	2.90	2.60	2.53	2.70	2.92	---	---	---
10	7.04	4.95	4.04	3.38	2.80	2.62	2.52	2.97	---	---	---	---
15	6.60	4.83	3.70	3.22	2.87	2.63	2.61	3.43	---	---	---	---
20	6.57	5.00	3.82	3.00	2.67	2.58	2.60	3.10	---	---	---	---
25	6.05	4.56	3.75	2.97	2.73	2.53	2.62	3.25	---	---	---	---
BOM	5.57	4.52	3.78	2.96	2.65	2.53	2.65	3.01	---	---	---	---

PERIOD OCTOBER 1994 TO JUNE 1995 HIGHEST INSTANTANEOUS 0.72 DEC 24, 1994
 LOWEST INSTANTANEOUS 7.26 OCT 04, 1994

DAILY LOW-WATER LEVELS



PATRICK COUNTY

364732080070301. Local number, 30C 1 SOW 010.

LOCATION.--Lat 36°47'32", long 80°07'03", Hydrologic Unit 03010103, 300 ft west of State Highway 623, 1.0 mi northeast of intersection of State Highways 57 and 623, and 6.2 mi west of Philpott. Owner: Commonwealth of Virginia.

AQUIFER.--Lynchburg Group of Late Proterozoic age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6.25 in., depth 250 ft, cased to 9 ft, open hole 9 to 250 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 1,060 ft above sea level, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

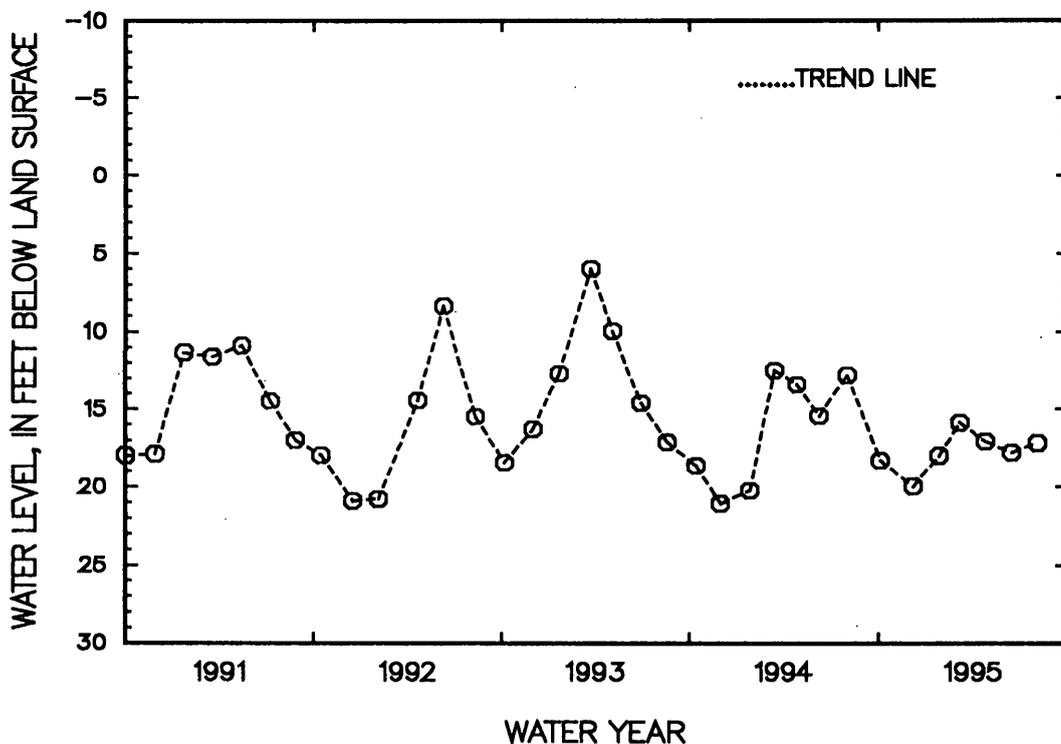
PERIOD OF RECORD.--May 1966 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.98 ft below land-surface datum, Mar. 23, 1993; lowest measured, 23.15 ft below land-surface datum, Jan. 10, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 05	18.32	JAN 26	18.00	MAR 07	15.90	APR 25	17.10	JUN 14	17.70	AUG 02	17.20
DEC 07	19.97										

WATER YEAR 1995 HIGHEST 15.90 MAR 07, 1995 LOWEST 19.97 DEC 07, 1994



GROUND-WATER LEVELS

CITY OF PORTSMOUTH

364823076181501. Local number, 60C 27.

LOCATION.--Lat 36°48'23", long 76°18'15", Hydrologic Unit 02080208, 100 ft east of State Highway 239 (Victory Boulevard), 0.1 mi south of the intersection of State Highway 239 (Victory Boulevard) and State Highway 337 (Elem Avenue) in the city of Portsmouth. Owner: U.S. Department of the Navy.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 908 ft, screened 903 to 908 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 18 ft above sea level, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

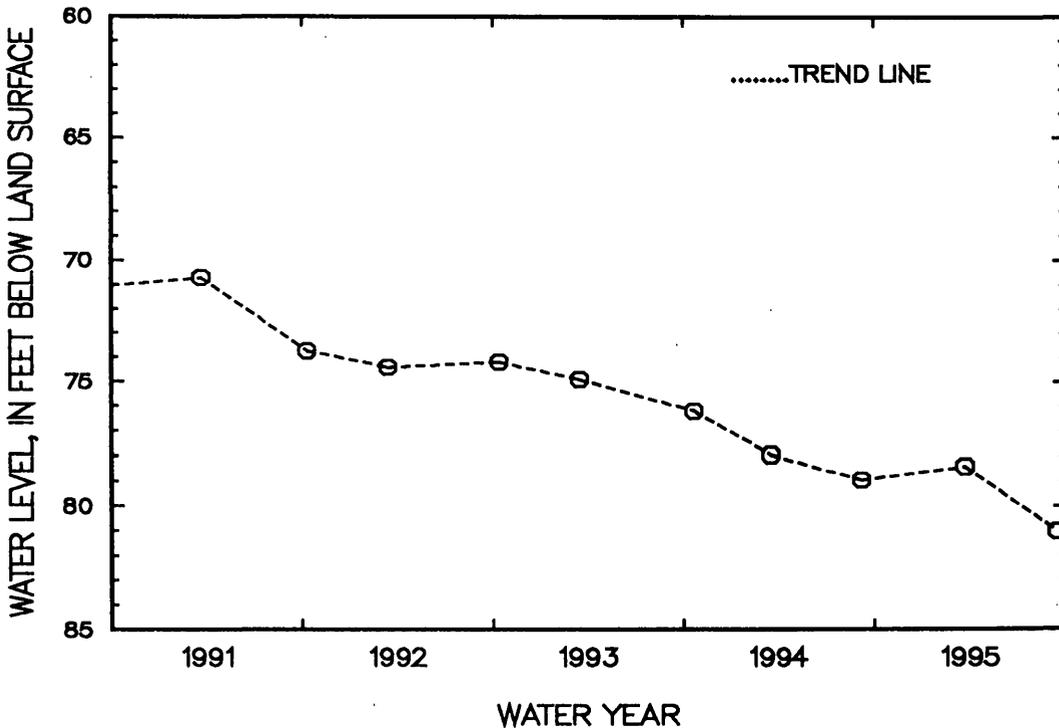
PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.65 ft below land-surface datum, June 19, 1985; lowest measured, 81.01 ft below land-surface datum, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	78.40	SEP 13	81.01

WATER YEAR 1995 HIGHEST 78.40 MAR 23, 1995 LOWEST 81.01 SEP 13, 1995



CITY OF PORTSMOUTH

365313076215101. Local number, 60D 2.

LOCATION.--Lat 36°53'13", long 76°21'51", Hydrologic Unit 02080208, 1.1 mi east of the main gate of the U.S. Naval Supply Center on Main Street in Building 285, 2.0 mi northwest of West Norfolk in the city of Portsmouth, and 2.25 mi north of the intersection of U.S. Highway 17 and Cedar Lane (Craney Island Road). Owner: U.S. Department of the Navy.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 170 ft, diameter 4 in. from 170 to 565 ft, depth 565 ft, screened 545 to 565 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12 ft above sea level, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

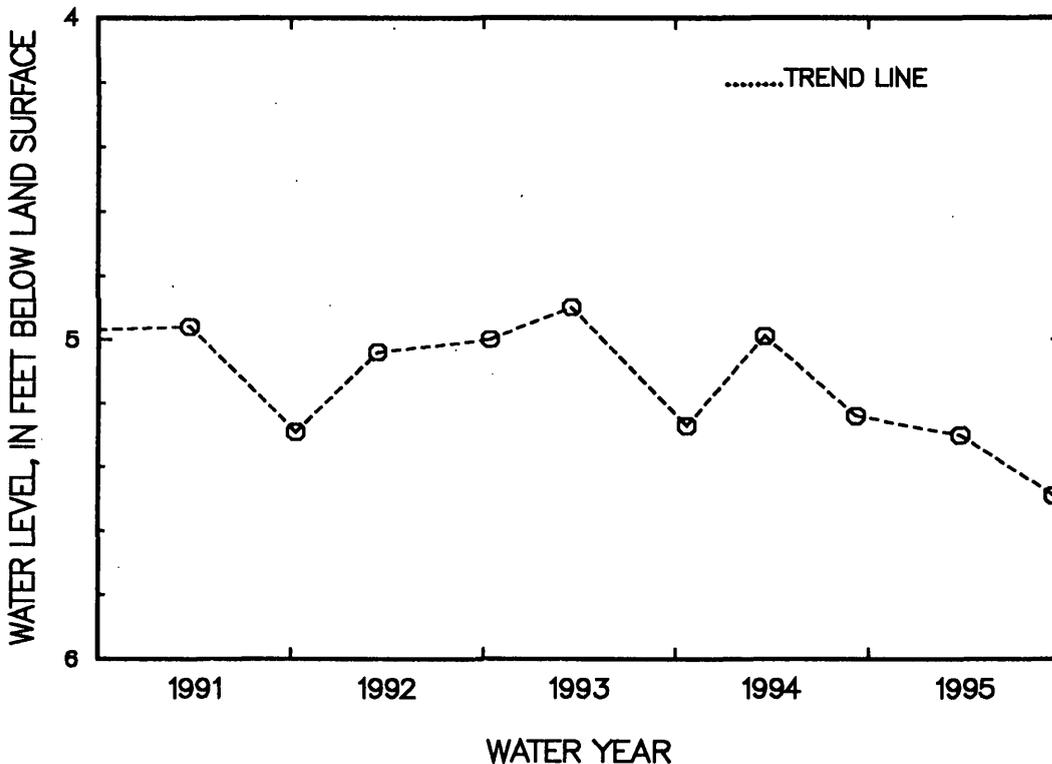
PERIOD OF RECORD.--January 1984 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.01 ft below land-surface datum, Sept. 18, 1985; lowest measured, 5.49 ft below land-surface datum, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	5.30	SEP 13	5.49

WATER YEAR 1995 HIGHEST 5.30 MAR 23, 1995 LOWEST 5.49 SEP 13, 1995



GROUND-WATER LEVELS

PRINCE GEORGE COUNTY

371315077171901. Local number, 52F 1 SOW 038.

LOCATION.--Lat 37°13'15", long 77°17'19", Hydrologic Unit 03010202, 0.1 mi north of State Highway 106 in Prince George. Owner: Prince George County.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 180 ft, cased to 170 ft, open hole 170 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 10, 1995, bimonthly measurement with chalked tape. May 25, 1974, to Oct. 9, 1985, occasional measurement with chalked tape. Jan. 31, 1971, to May 25, 1974, continuous strip-chart recorder. Prior to Jan. 31, 1971, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 132 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 3.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

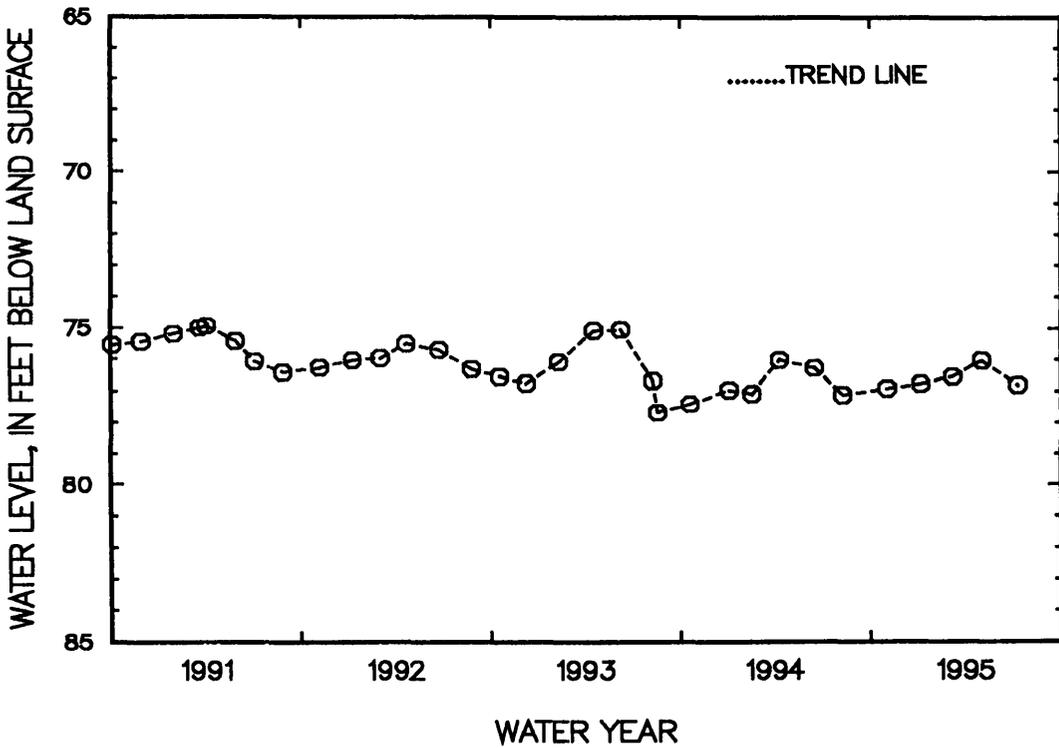
PERIOD OF RECORD.--December 1970 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.32 ft below land-surface datum, Feb. 4, 1980; lowest measured, 77.89 ft below land-surface datum, Sept. 20, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	76.91	JAN 06	76.77	MAR 08	76.53	MAY 03	76.02	JUL 10	76.80

WATER YEAR 1995 HIGHEST 76.02 MAY 03, 1995 LOWEST 76.91 NOV 03, 1994



PRINCE WILLIAM COUNTY

384931077420301. Local number, 49U 1.

LOCATION.--Lat 38°49'30", long 77°42'08", Hydrologic Unit 02070010, 500 ft north of State Highway 55, 0.8 mi east of Thoroughfare Gap, and 3.7 mi west of Haymarket. Owner: Virginia Department of Transportation.

AQUIFER.--Waterfall Formation of Early Jurassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 7 in., depth 345 ft, cased to 20 ft, open hole 20 to 345 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel. Prior to February 1980, continuous strip-chart recorder.

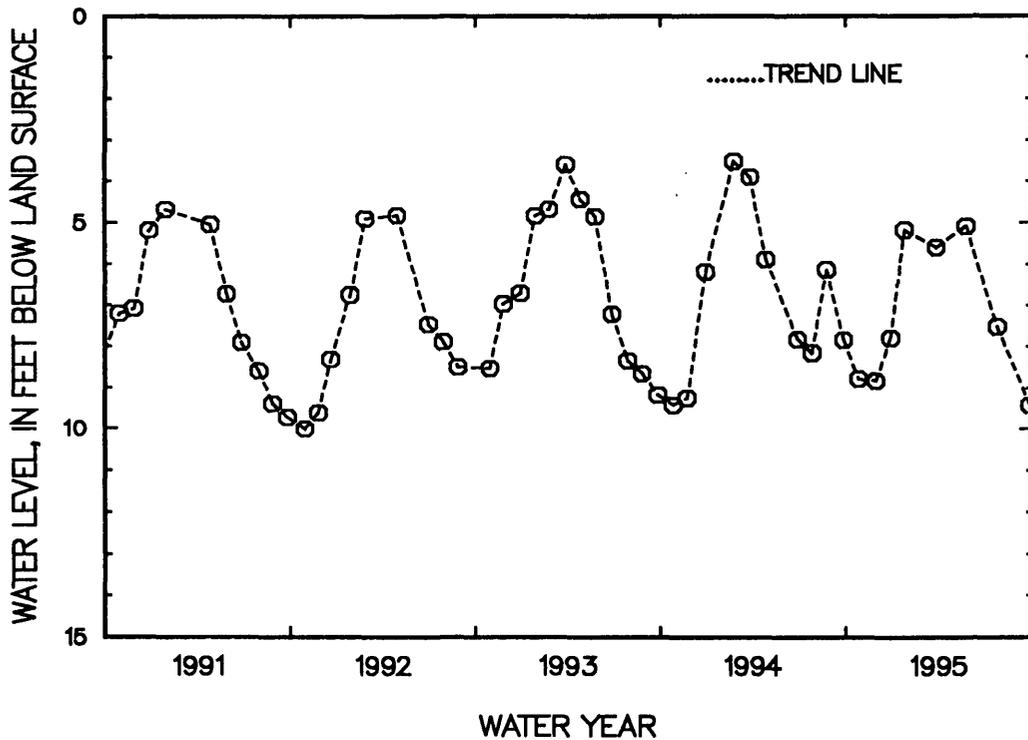
DATUM.--Elevation of land-surface datum is 383 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1968 to current year. Unpublished records available prior to May 1969 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.59 ft below land-surface datum, Mar. 19, 1975; lowest measured, 10.33 ft below land-surface datum, Oct. 14, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	8.78	DEC 28	7.80	MAR 28	5.59	MAY 25	5.09	JUL 24	7.52	SEP 26	9.42
NOV 29	8.83	JAN 25	5.18								
WATER YEAR 1995		HIGHEST	5.09	MAY 25, 1995	LOWEST	9.42	SEP 26, 1995				



GROUND-WATER LEVELS

PRINCE WILLIAM COUNTY

385607077381101. Local number, 49V 1.

LOCATION.--Lat 38°56'07", long 77°38'11", Hydrologic Unit 02070010, near intersection of State Highways 600 and 615, 2.8 mi south of Aldie. Owner: J. H. Hutchison.

AQUIFER.--Turkey Run Formation of Early Jurassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 7 in., depth 165 ft, cased to 10 ft, open hole 10 to 165 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to June 19, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 420 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum. Readings from 1979 to 1981 should be 0.7 ft lower than previously published.

PERIOD OF RECORD.--November 1968 to current year.

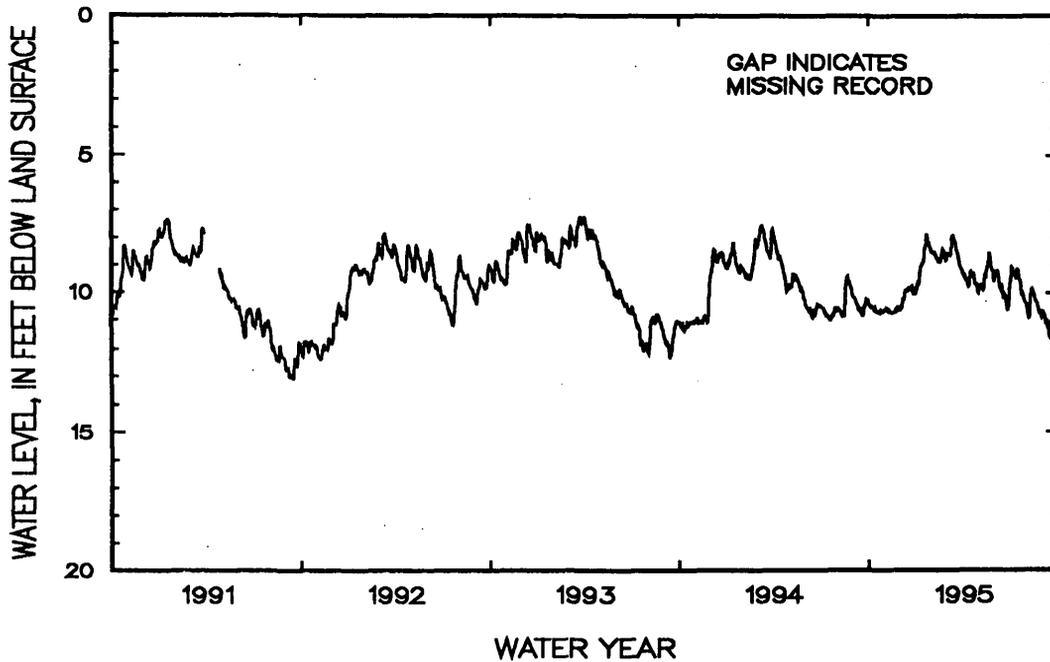
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.85 ft below land-surface datum, Oct. 12, 1979; lowest recorded, 13.09 ft below land-surface datum, Sept. 16, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.50	10.55	10.51	9.71	8.56	8.61	9.50	9.70	9.34	9.29	10.90	11.03
10	10.52	10.64	10.11	9.05	8.74	8.05	9.74	9.86	9.82	9.51	9.86	11.29
15	10.62	10.74	9.90	8.87	8.88	8.05	9.24	9.19	9.96	9.29	10.17	11.18
20	10.71	10.71	9.88	8.13	8.42	8.52	9.41	8.53	10.09	9.84	10.35	10.78
25	10.65	10.56	9.92	8.21	8.72	9.01	9.68	9.16	10.64	10.18	10.64	10.55
EOM	10.69	10.61	10.04	8.50	8.75	9.37	10.00	9.36	9.54	10.45	10.76	10.43

WATER YEAR 1995 HIGHEST INSTANTANEOUS 7.74 JAN 21, 1995 LOWEST INSTANTANEOUS 11.52 SEP 12, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

PRINCE WILLIAM COUNTY

383634077151301. Local number, 52S 4.

LOCATION.--Lat 38°36'34", long 77°15'13", Hydrologic Unit 02070010, 193 ft east of Richmond, Fredericksburg, and Potomac (RFP) railroad tracks, 1.1 mi southeast of the intersection of U.S. Highway 1 and State Highway 636 (Featherstone Road), 1.4 mi south of the intersection of State Highway 636 (Featherstone Road) and RFP railroad tracks, and near Woodbridge. Owner: District of Columbia Department of Sanitary Engineering.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in., depth 186 ft, screened 156 to 176 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Aug. 1, 1971, to July 10, 1978, continuous strip-chart recorder. Prior to Aug. 1, 1971, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of casing, 3.3 ft above land-surface datum prior to Aug. 28, 1978; 1.9 ft thereafter.

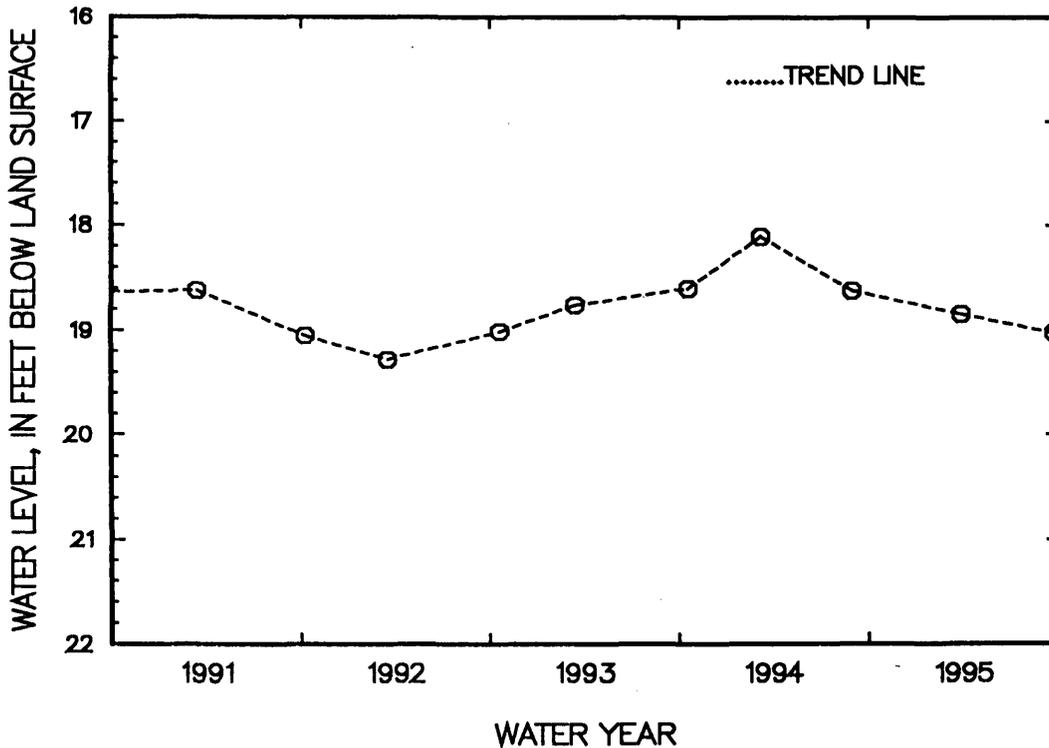
PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 17.17 ft below land-surface datum, Apr. 28, 1973; lowest measured, 22.17 ft below land-surface datum, July 1, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	18.84	SEP 22	19.02

WATER YEAR 1995 HIGHEST 18.84 MAR 29, 1995 LOWEST 19.02 SEP 22, 1995



PRINCE WILLIAM COUNTY

383634077151302. Local number, 52S 5.

LOCATION.--Lat 38°36'34", long 77°15'13", Hydrologic Unit 02070010, 193 ft east of Richmond, Fredericksburg, and Potomac (RFP) railroad tracks, 1.1 mi southeast of the intersection of U.S. Highway 1 and State Highway 636 (Featherstone Road), 1.4 mi south of the intersection of State Highway 636 (Featherstone Road) and RFP railroad tracks, and near Woodbridge. Owner: District of Columbia Department of Sanitary Engineering.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 114 ft, screened 95 to 105 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 28 ft above sea level, from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.

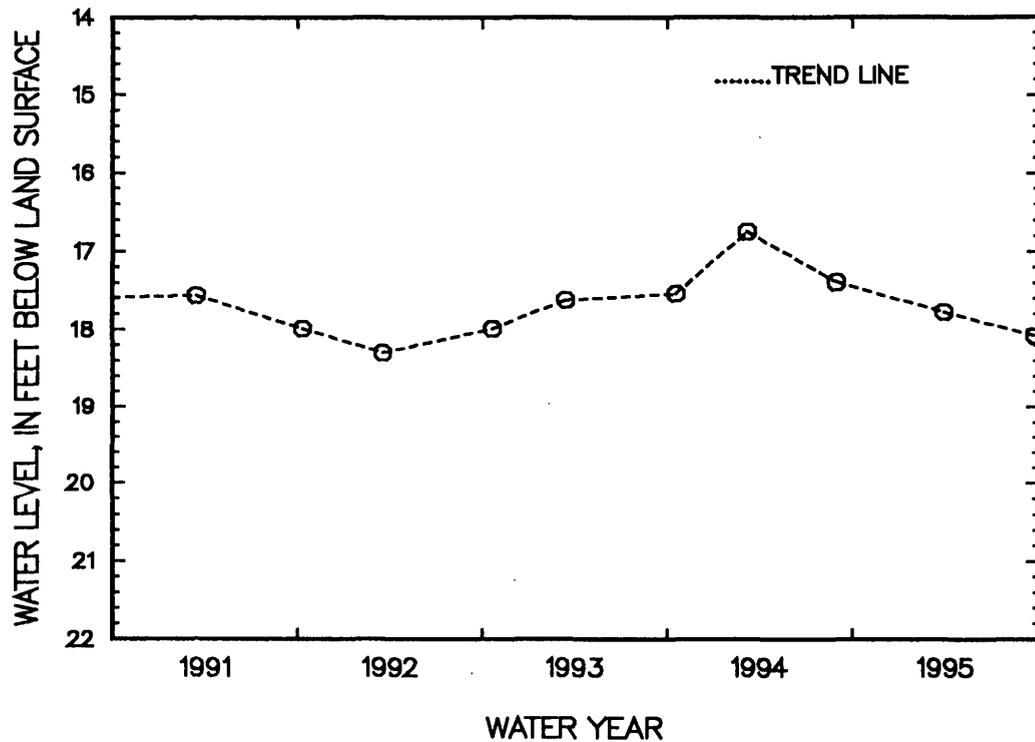
PERIOD OF RECORD.--July 1969 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.44 ft below land-surface datum, Apr. 1, 1980; lowest measured, 19.62 ft below land-surface datum, Jan. 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	17.77	SEP 22	18.08

WATER YEAR 1995 HIGHEST 17.77 MAR 29, 1995 LOWEST 18.08 SEP 22, 1995



GROUND-WATER LEVELS

PRINCE WILLIAM COUNTY

383830077135502. Local number, 53T 2 SOW 029.

LOCATION.--Lat 38°38'30", long 77°13'55", Hydrologic Unit 02070010, at U.S. Army Woodbridge Research Facility, 1.5 mi east of Woodbridge. Owner: U.S. Department of the Army.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 162 ft, screened 130 to 156 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 25, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division..

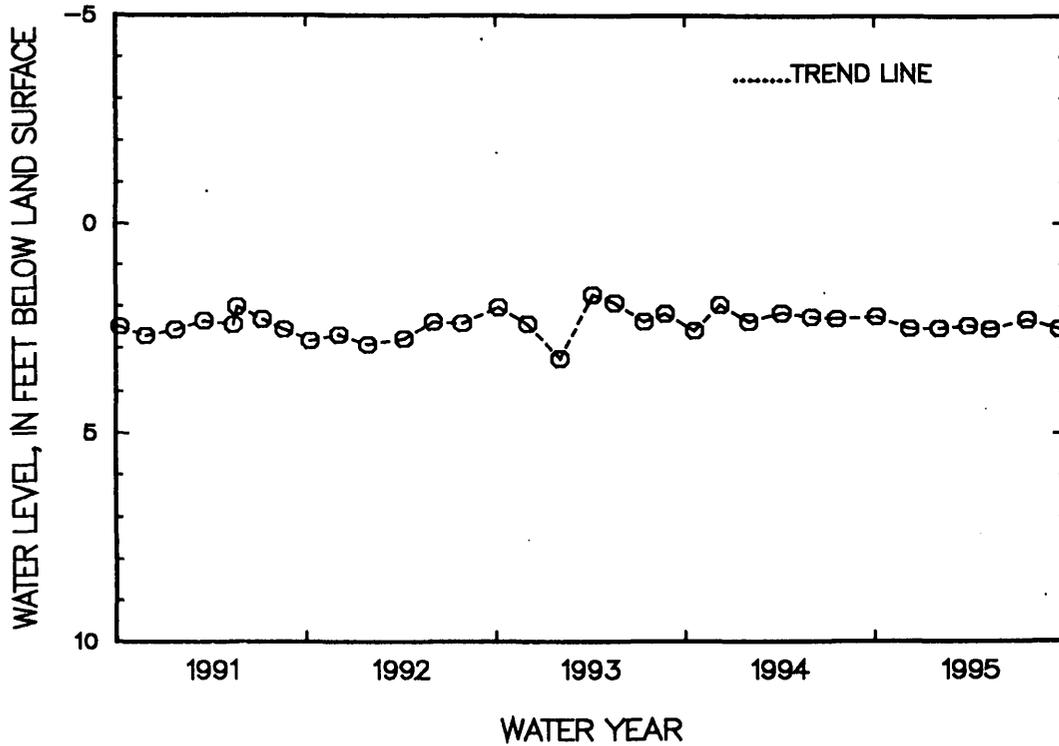
PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.60 ft below land-surface datum, Apr. 4, 1973; lowest measured, 10.35 ft below land-surface datum, Oct. 12, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	2.24	FEB 01	2.52	MAR 28	2.46	MAY 09	2.54	JUL 18	2.32	SEP 18	2.53
DEC 06	2.52										

WATER YEAR 1995 HIGHEST 2.24 OCT 04, 1994 LOWEST 2.54 MAY 09, 1995



PULASKI COUNTY

370254080374401. Local number, 25E 1 SOW 009.

LOCATION.--Lat 37°02'54", long 80°37'44", Hydrologic Unit 05050001, 300 ft east of State Highway 100, 0.3 mi south of intersection of State Highways 682 and 700, and 1.1 mi south of Dublin. Owner: Commonwealth of Virginia.

AQUIFER.--Elbrook Formation of Middle to Late Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 318 ft, cased to 56 ft, open hole 56 to 318 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 1,880 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

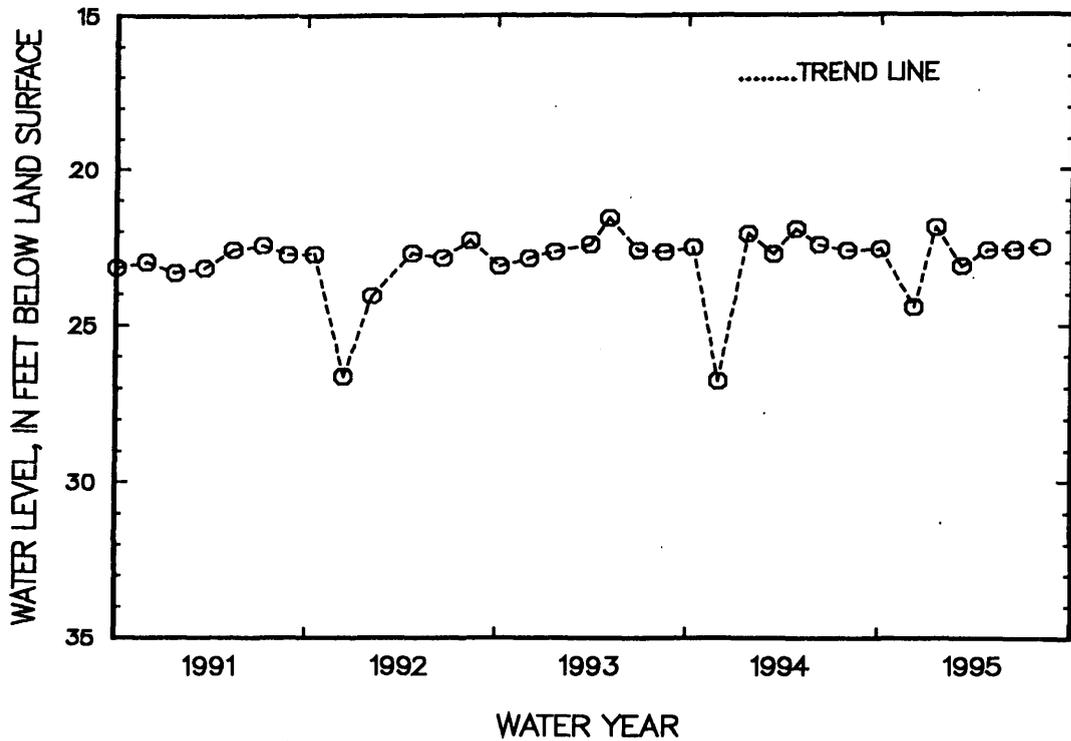
PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.15 ft below land-surface datum, Mar. 31, Apr. 30, 1975; lowest measured, 27.25 ft below land-surface datum, Dec. 13, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	22.56	JAN 17	21.85	MAR 07	23.10	APR 25	22.60	JUN 14	22.58	AUG 02	22.50
DEC 07	24.40										

WATER YEAR 1995 HIGHEST 21.85 JAN 17, 1995 LOWEST 24.40 DEC 07, 1994



GROUND-WATER LEVELS

PULASKI COUNTY

370516080411501. Local number, 25E 2 SOW 059.

LOCATION.--Lat 37°05'16", long 80°41'15", Hydrologic Unit 05050001, 400 ft east of State Highway 100, 0.5 mi south of Dublin. Owner: Town of Dublin.

AQUIFER.--Conococheague Formation of Late Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 370 ft, length of casing unknown.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. July 20, 1974, to Oct. 1, 1985, occasional measurement with chalked tape. Prior to July 20, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 2,170 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

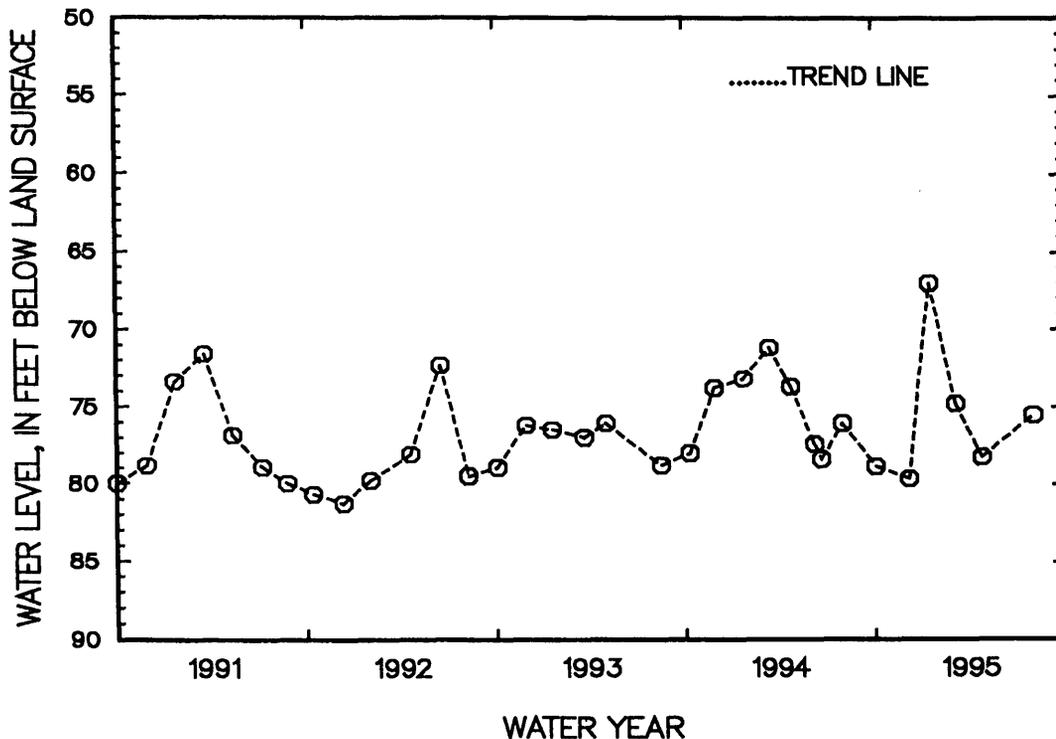
PERIOD OF RECORD.--April 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 60.00 ft below land-surface datum, Mar. 18, 1973; lowest measured, 82.50 ft below land-surface datum, Oct. 5, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 04	78.80	DEC 07	79.60	JAN 17	66.98	MAR 07	74.80	APR 25	78.20	AUG 02	75.50

WATER YEAR 1995 HIGHEST 66.98 JAN 17, 1995 LOWEST 79.60 DEC 07, 1994



CITY OF ROANOKE

371653079552101. Local number, 31G 1 SOW 008.

LOCATION.--Lat 37°16'53", long 79°55'21", Hydrologic Unit 03010101, 700 ft south of intersection of 10th Street and Orange Avenue in Roanoke. Owner: Nelson-Roanoke Corporation.

AQUIFER.--Rome Formation of Cambrian age. Prior to 1974, reported as Elbrook Formation.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 48 ft, length of casing unknown.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. July 20, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to July 20, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 930 ft above sea level, from topographic map. Measuring point: Top of casing, 0.94 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

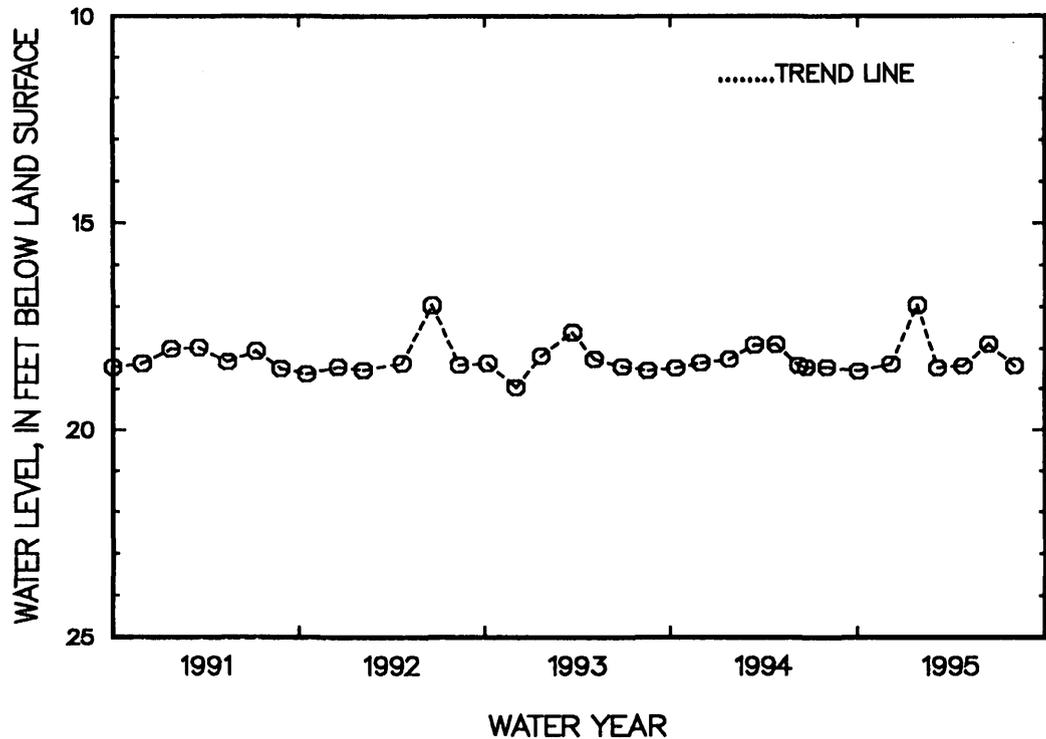
PERIOD OF RECORD.--August 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.36 ft below land-surface datum, Feb. 18, 1986; lowest measured, 19.29 ft below land-surface datum, June 23, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 03	18.55	JAN 25	16.96	MAR 06	18.48	APR 24	18.43	JUN 13	17.90	AUG 02	18.43
DEC 05	18.38										

WATER YEAR 1995 HIGHEST 16.96 JAN 25, 1995 LOWEST 18.55 OCT 03, 1994



GROUND-WATER LEVELS

ROCKBRIDGE COUNTY

373758079271601. Local number, 35K 1 SOW 063.

LOCATION.--Lat 37°37'58", long 79°27'16", Hydrologic Unit 02080202, 0.35 mi northwest of intersection of State Highways 130 and 684 in Glasgow. Owner: Town of Glasgow.

AQUIFER.--Rome Formation of Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 695 ft, cased to 101 ft, open hole from 101 to 695 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 745 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

PERIOD OF RECORD.--June 1972 to current year.

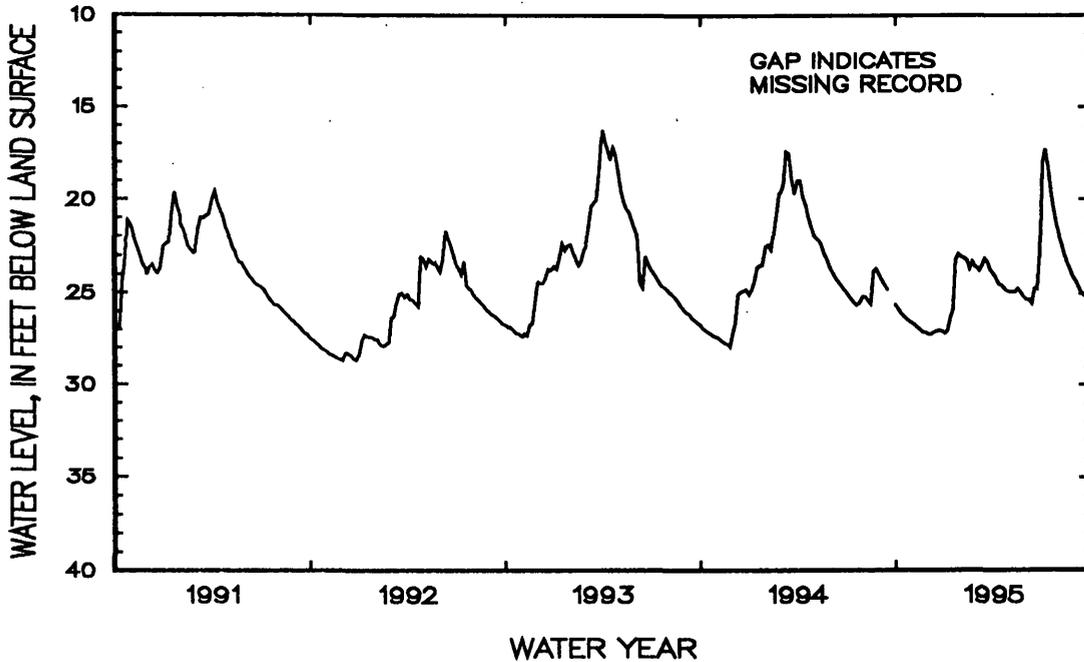
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.27 ft below land-surface datum, Apr. 29, 1987; lowest recorded, 29.13 ft below land-surface datum, Dec. 13, 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.83	26.71	27.22	27.00	23.14	23.78	24.18	24.89	25.31	17.32	22.47	24.65
10	26.05	26.86	27.12	26.33	23.27	23.55	24.46	24.92	25.54	18.19	23.04	24.98
15	26.23	26.97	27.05	25.87	23.67	23.19	24.53	24.72	24.71	19.45	23.43	25.10
20	26.35	27.11	27.02	23.26	23.33	23.34	24.70	24.90	24.74	20.49	23.77	25.04
25	26.51	27.12	27.03	22.92	23.59	23.75	24.85	25.15	22.85	21.34	24.10	25.21
EOM	26.60	27.21	27.17	23.09	23.62	23.94	24.90	25.33	18.08	22.04	24.32	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 16.76 JUL 02, 1995 LOWEST INSTANTANEOUS 27.24 DEC 04, 1994

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383156078571001. Local number, 39S 1.

LOCATION.--Lat 38°31'56", long 78°57'10", Hydrologic Unit 02070005, 300 ft southwest of State Highway 771 and 1.1 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 12 ft, screened 7 to 12 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1523.06 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 2.67 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--December 1993 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1522.71 ft above sea level, Feb. 24, 1994; lowest measured, 1516.44 ft above sea level, Jan. 05, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1517.15	1520.59	1521.94	1520.58	1518.48	1517.52	1516.83	1517.53	1517.67
10	---	---	---	1517.66	1521.16	1522.25	1520.12	1520.52	1517.53	1516.78	1517.09	1517.36
15	---	---	1518.14	1519.34	1520.63	1521.05	1519.78	1519.36	1517.27	1516.79	1517.44	1517.13
20	---	---	1518.31	1518.59	1521.57	1520.56	1519.59	1518.42	1517.11	1516.85	1520.92	1516.98
25	---	---	1517.96	1519.47	1521.68	1520.15	1518.87	1518.09	1516.94	1517.07	1518.63	1516.90
EOM	---	---	1517.50	1520.92	1521.03	1521.26	1518.63	1517.82	1516.87	1516.92	1517.97	1516.82

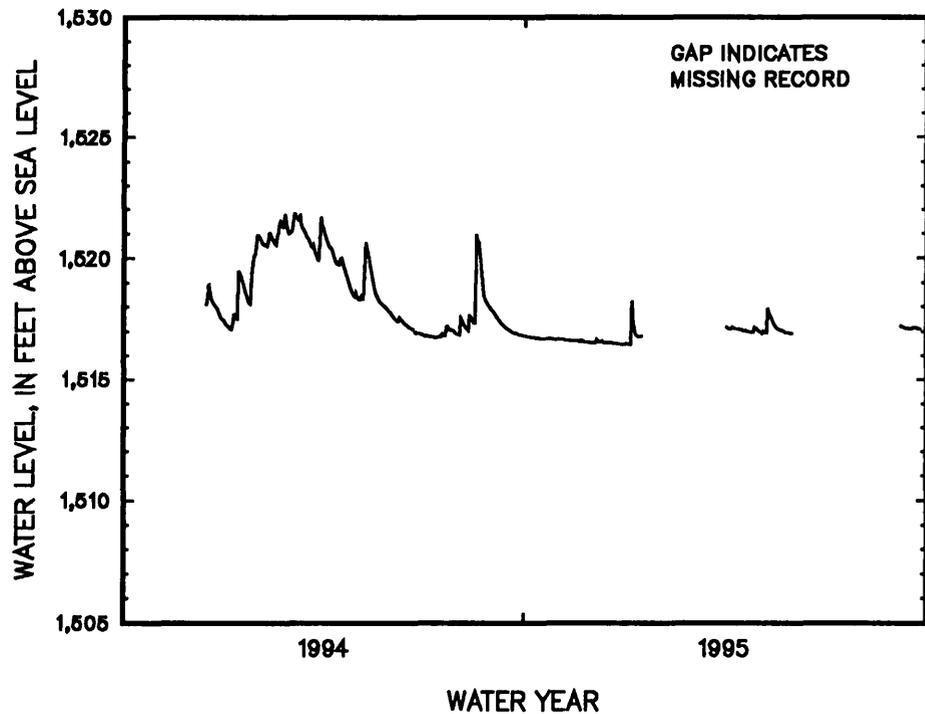
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1522.71 FEB 24, 1994 LOWEST INSTANTANEOUS 1516.74 JUL 13, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1516.78	1516.67	1516.65	1516.45	---	---	1517.11	1517.00	---	---	---	---
10	1516.76	1516.64	1516.57	1516.97	---	---	1517.11	1518.07	---	---	---	1517.17
15	1516.71	1516.61	1516.53	1516.79	---	---	1517.08	1517.39	---	---	---	1517.11
20	1516.70	1516.60	1516.53	---	---	---	1517.06	1517.08	---	---	---	1517.13
25	1516.71	1516.57	1516.50	---	---	---	1516.96	1516.99	---	---	---	---
EOM	1516.68	1516.55	1516.46	---	---	---	1517.12	1516.92	---	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1518.73 JAN 07, 1995 LOWEST INSTANTANEOUS 1516.44 JAN 05, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383152078570901. Local number, 39S 2.

LOCATION.--Lat 38°31'52", long 78°57'09", Hydrologic Unit 02070005, 400 ft southwest of State Highway 771 and 1.1 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 12 ft, screened 7 to 12 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1517.56 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 2.79 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1517.41 ft above sea level, Jul. 05, 1995; lowest measured, 1509.62 ft above sea level, Jul. 08, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	1515.27	1510.95	---	---	---	1514.31	1511.44	1509.72	1511.71	1512.23
10	---	---	1514.79	1511.70	---	1517.12	---	1516.27	1511.57	1509.74	1510.95	1511.94
15	---	---	1512.73	1515.34	---	1516.82	1515.69	1515.23	1511.38	1510.00	1511.48	1511.69
20	---	1511.11	1513.30	1514.71	1516.84	1516.37	1515.54	1514.24	1510.89	1510.16	1516.27	1511.46
25	---	1510.68	1512.10	1515.51	1516.93	1515.96	1515.04	1513.26	1510.17	1510.45	1513.97	1511.04
EOM	---	1512.56	1511.66	---	1516.82	1516.88	1514.68	1511.84	1509.95	1510.64	1512.31	1510.81

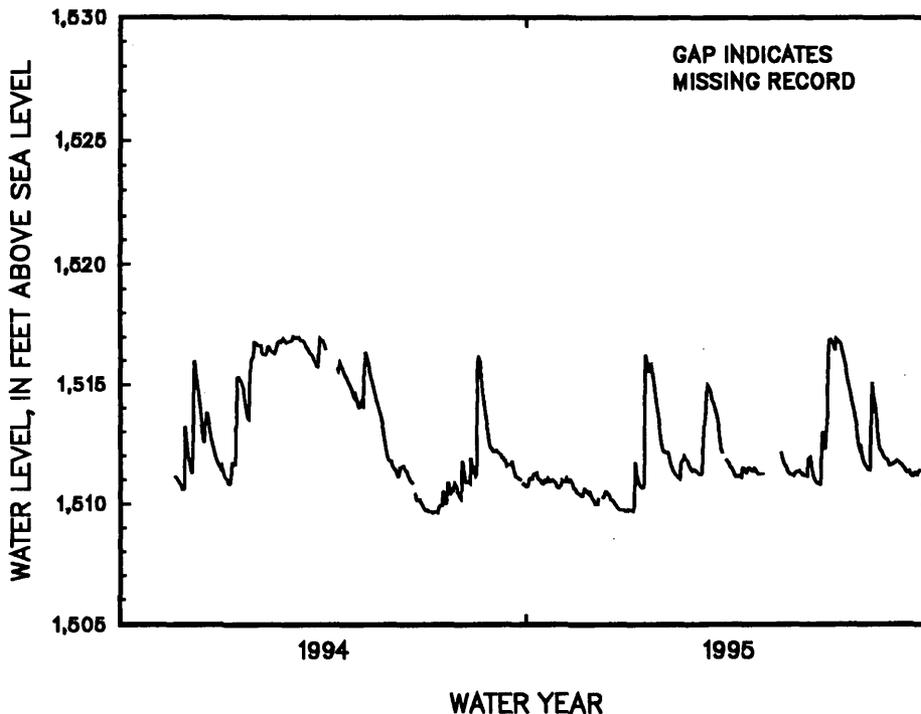
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1517.27 FEB 23, 1994 LOWEST INSTANTANEOUS 1509.62 JUL 08, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1511.11	1510.99	1510.58	1509.78	1512.25	1511.26	1511.39	---	1511.25	1516.77	1511.55	1511.51
10	1511.34	1511.03	1510.39	1510.94	1511.44	1513.49	1511.19	---	1511.41	1516.79	1514.13	1511.30
15	1510.87	1510.59	1510.39	1513.61	1511.08	1514.86	1511.48	---	1511.38	1515.71	1512.25	1511.30
20	1511.09	1510.36	1510.01	1516.11	1512.02	1513.98	1511.52	1511.83	1510.87	1514.45	1511.89	1511.44
25	1510.96	1510.55	1509.77	1514.90	1511.57	1512.49	1511.54	1511.31	1512.77	1513.09	1511.69	---
EOM	1510.80	1510.24	1509.71	1512.53	1511.43	1511.77	1511.33	1511.35	1516.98	1511.77	1511.77	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1517.41 JUL 05, 1995 LOWEST INSTANTANEOUS 1509.69 DEC 29, 1994

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383153078571001. Local number, 39S 3.

LOCATION.--Lat 38°31'53", long 78°57'10", Hydrologic Unit 02070005, 500 ft southwest of State Highway 771 and 1.1 mi north of intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age..

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 10 ft, screened 7 to 10 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1519.98 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.26 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--February 1994 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1520.16 ft above sea level, Feb. 24, 1994; lowest measured, 1514.09 ft above sea level, Dec. 30, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	1519.94	1518.66	1515.59	1514.91	1514.79	1514.77	1514.83
10	---	---	---	---	---	1520.05	1517.70	1518.32	1514.89	1514.79	1514.75	1514.84
15	---	---	---	---	1518.68	1519.48	1517.14	1516.63	1514.89	1514.77	1514.75	1514.81
20	---	---	---	---	1519.61	1518.56	1516.97	1515.50	1514.87	1514.76	1518.45	1514.80
25	---	---	---	---	1519.90	1517.68	1516.32	1514.94	1514.83	1514.77	1515.01	1514.78
EOM	---	---	---	---	1519.50	1519.66	1515.96	1514.92	1514.81	1514.74	1514.85	1514.77

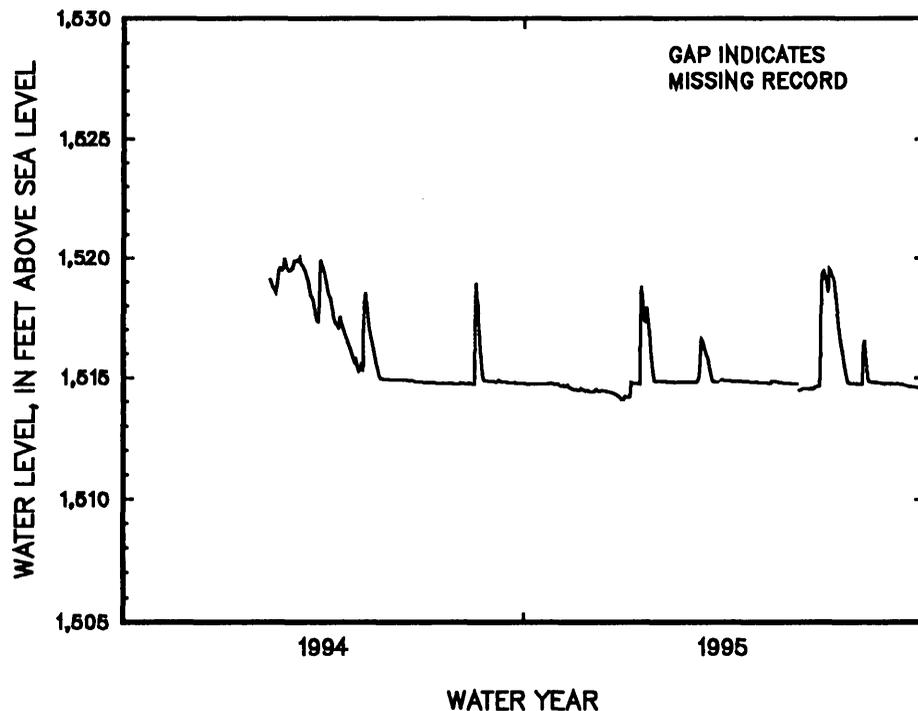
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1520.16 FEB 24, 1994 LOWEST INSTANTANEOUS 1514.73 AUG 03, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1514.75	1514.69	1514.63	1514.22	1514.85	1514.81	1514.87	1514.80	1514.73	1519.11	1514.78	1514.76
10	1514.74	1514.71	1514.46	1514.78	1514.83	1515.29	1514.85	1514.79	1514.50	1519.19	1515.19	1514.73
15	1514.73	1514.53	1514.45	1517.25	1514.81	1516.32	1514.85	1514.86	1514.54	1517.23	1514.83	1514.66
20	1514.75	1514.48	1514.38	1518.25	1514.81	1515.38	1514.84	1514.83	1514.54	1515.61	1514.80	1514.63
25	1514.76	1514.49	1514.31	1516.46	1514.82	1514.83	1514.83	1514.79	1514.65	1514.79	1514.76	---
EOM	1514.74	1514.45	1514.21	1514.86	1514.82	1514.90	1514.81	1514.76	1519.52	1514.76	1514.76	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1519.91 JUL 05, 1995 LOWEST INSTANTANEOUS 1514.09 DEC 30, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383155078571201. Local number, 39S 4.

LOCATION.--Lat 38°31'55", long 78°57'12", Hydrologic Unit 02070005, 500 ft southwest of State Highway 771 and 1.1 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 21 ft, screened 11 to 21 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1523.78 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.71 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1524.03 ft above sea level, Jul. 01, 1995; lowest measured, 1515.63 ft above sea level, Nov. 22, 1993.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	1522.08	1516.83	1522.04	1523.60	1521.00	1518.37	1517.29	1516.81	1516.71	1516.96
10	---	---	1518.30	1517.82	1522.79	1523.84	1519.78	1520.62	1517.32	1516.79	1516.67	1516.75
15	---	---	1517.85	1519.68	1522.04	1522.57	1519.34	1518.71	1517.07	1516.79	1516.36	1516.67
20	---	1515.75	1517.92	1518.69	1523.19	1520.85	1519.10	1518.27	1516.94	1516.74	1520.34	1516.64
25	---	1515.65	1517.64	1520.53	1523.70	1519.83	1518.61	1518.03	1516.90	1516.73	1517.81	1516.65
EOM	---	1517.34	1516.93	1522.72	1523.15	1523.09	1518.52	1517.64	1516.81	1516.70	1517.32	1516.62

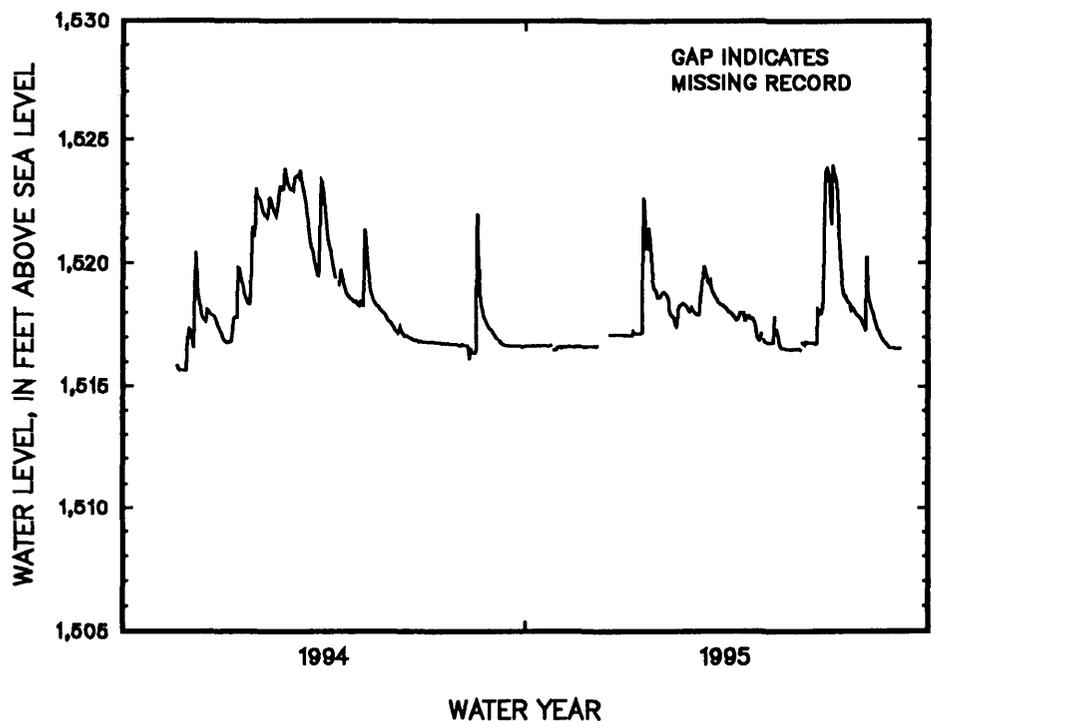
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1524.00 FEB 24, 1994 LOWEST INSTANTANEOUS 1515.63 NOV 22, 1993

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1516.64	1516.60	1516.68	1517.07	1518.81	1517.97	1518.03	1516.98	1516.50	1522.63	1517.67	1516.53
10	1516.64	1516.63	---	1517.15	1517.98	1519.11	1517.77	1516.79	1517.13	1523.16	1518.28	---
15	1516.65	1516.61	---	1521.14	1517.52	1519.45	1518.02	1517.87	1516.78	1519.39	1517.53	---
20	1516.66	1516.62	1517.11	1521.74	1518.36	1518.91	1517.88	1516.66	1516.75	1518.49	1517.00	---
25	---	1516.60	1517.10	1519.42	1518.25	1518.47	1517.79	1516.52	1518.08	1518.20	1516.69	---
EOM	1516.59	1516.61	1517.10	1518.70	1518.14	1518.26	1517.02	1516.49	1523.86	1517.83	1516.55	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1524.03 JUL 01, 1995 LOWEST INSTANTANEOUS 1516.00 JUN 16, 1995

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383159078571101. Local number, 39S 5.

LOCATION.--Lat 38°31'59", long 78°57'11", Hydrologic Unit 02070005, 200 ft southwest of State Highway 771 and 1.2 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 14 ft, screened 7 to 14 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1533.52 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.93 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--December 1993 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1532.85 ft above sea level, Jul. 06, 1995; lowest measured, 1522.28 ft above sea level, Jul. 17, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1524.19	1528.35	1532.11	1529.97	1525.38	1523.30	1522.57	1523.34	1523.56
10	---	---	---	1525.39	1530.13	1532.72	1528.25	1530.34	1523.48	1522.43	1523.07	1523.17
15	---	---	---	1529.35	1528.47	1530.97	1527.19	1526.64	1523.26	1522.31	1523.86	1523.00
20	---	---	---	1525.80	1530.51	1528.93	1527.25	1525.04	1523.14	1522.29	1530.57	1522.89
25	---	---	1524.94	1528.91	1532.53	1527.56	1525.82	1524.21	1522.90	1522.42	1525.18	1522.84
EOM	---	---	1524.41	1530.08	1531.03	1531.93	1525.46	1523.75	1522.72	1522.41	1523.91	1522.76

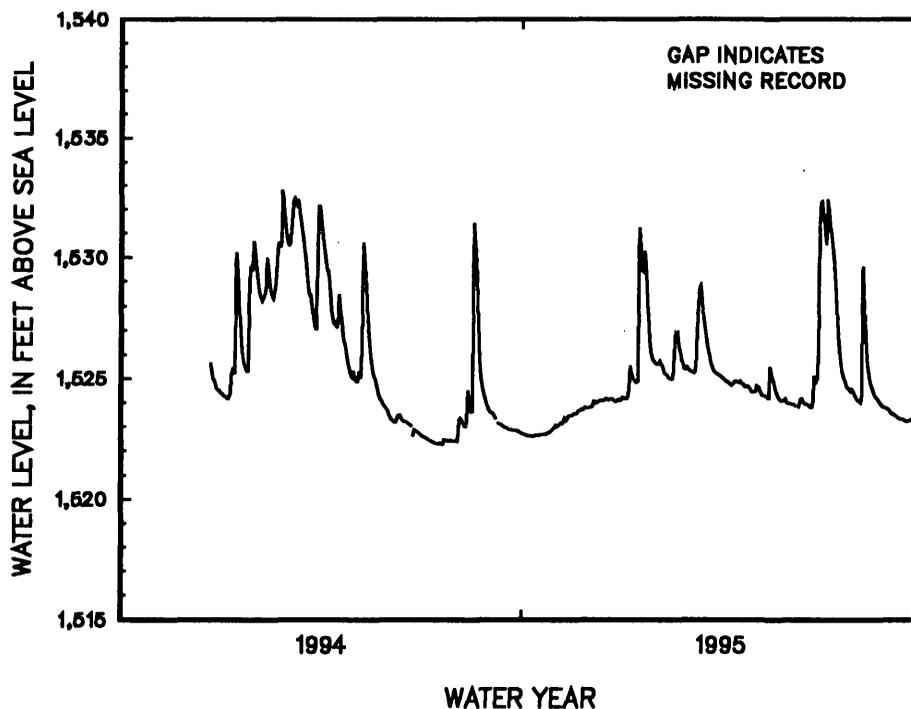
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1532.79 FEB 25, 1994 LOWEST INSTANTANEOUS 1522.28 JUL 17, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1522.67	1523.15	1524.01	1524.20	1525.68	1525.32	1524.93	1524.68	1523.95	1531.13	1524.04	1523.52
10	1522.62	1523.28	1524.08	1525.17	1525.21	1527.57	1524.74	1524.37	1523.88	1530.89	1526.95	1523.35
15	1522.65	1523.47	1524.10	1527.53	1525.00	1528.18	1524.89	1525.63	1524.04	1528.02	1524.75	1523.26
20	1522.68	1523.56	1524.14	1530.04	1526.91	1526.27	1524.79	1524.65	1523.88	1525.28	1524.21	1523.33
25	1522.74	1523.74	1524.09	1527.46	1525.69	1525.38	1524.76	1524.11	1525.21	1524.66	1523.89	---
EOM	1523.01	1523.80	1524.18	1525.67	1525.48	1525.15	1524.44	1524.03	1532.43	1524.33	1523.73	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1532.85 JUL 06, 1995 LOWEST INSTANTANEOUS 1522.61 OCT 11, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383202078571201. Local number, 39S 6.

LOCATION.--Lat 38°32'02", long 78°57'12", Hydrologic Unit 02070005, 200 ft southwest of State Highway 771 and 1.3 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 33.3 ft, screened 23.3 to 33.3 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1542.42 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.26 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--December 1993 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1540.08 ft above sea level, Mar. 31, 1994; lowest measured, 1524.98 ft above sea level, Jan. 05, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1529.66	1535.80	---	1539.11	1536.07	1533.14	1529.01	1528.99	1532.93
10	---	---	---	1529.96	1536.05	---	1538.27	1537.68	1532.65	1528.52	1528.86	1531.79
15	---	---	---	1533.64	1536.15	---	1537.68	1536.92	1531.91	1528.10	1529.79	1530.73
20	---	---	---	1533.63	1536.92	1538.75	1537.54	1535.98	---	1527.99	1534.88	1529.77
25	---	---	1532.14	1533.94	---	1538.16	1536.81	1535.35	1530.27	1528.47	1534.89	1529.19
EOM	---	---	1530.51	1535.92	---	1540.06	1536.24	1534.12	1529.64	1528.23	1533.99	1528.31

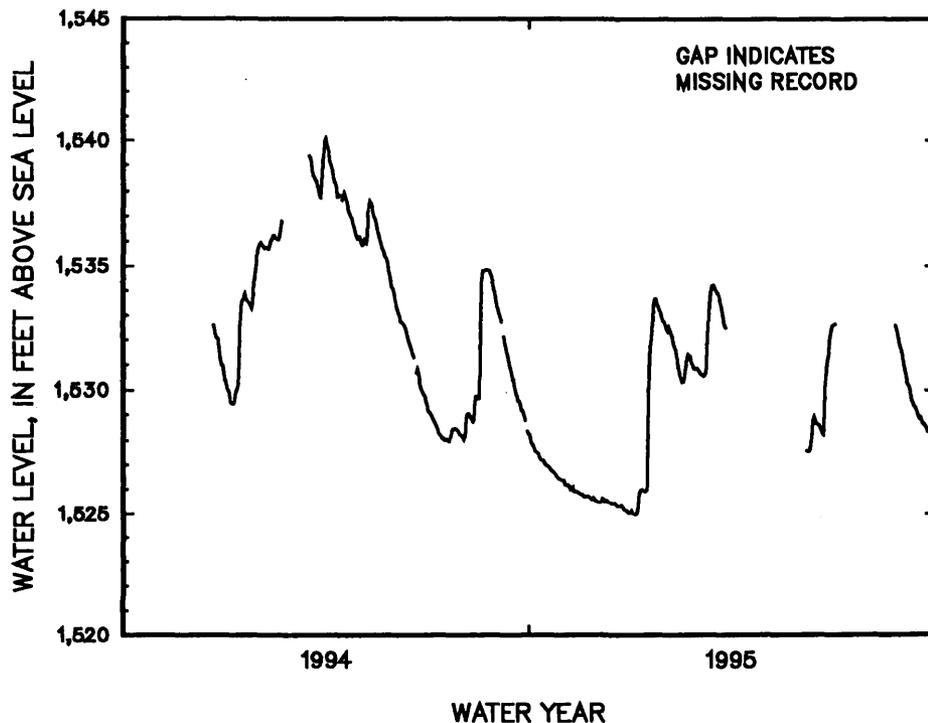
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1540.08 MAR 31, 1994 LOWEST INSTANTANEOUS 1527.96 JUL 20, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1527.80	1526.19	1525.63	1525.00	1532.51	1530.63	---	---	---	---	---	1530.45
10	1527.39	1526.00	1525.58	1526.00	1531.67	1532.04	---	---	1527.63	---	---	1529.61
15	1527.09	1525.88	1525.45	1526.93	1530.46	1534.27	---	---	1528.84	---	---	1529.01
20	1526.85	1525.72	1525.35	1532.92	1531.43	1533.87	---	---	1528.54	---	---	1528.67
25	1526.62	1525.71	1525.27	1533.41	1531.06	1532.87	---	---	1531.02	---	---	---
EOM	1526.41	1525.58	1525.10	1532.71	1530.96	---	---	---	1532.53	---	1531.64	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1534.32 MAR 15, 1995 LOWEST INSTANTANEOUS 1524.98 JAN 05, 1995

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383203078571301. Local number, 39S 7.

LOCATION.--Lat 38°32'03", long 78°57'13", Hydrologic Unit 02070005, 100 ft southwest of State Highway 771 and 1.3 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 22.5 ft, screened 17.5 to 22.5 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1546.31 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 4.11 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--December 1993 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1544.55 ft above sea level, Mar. 10, 1994; lowest measured, 1532.83 ft above sea level, Dec. 30, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1535.40	1540.89	1543.55	1543.43	1541.65	1538.15	---	---	---
10	---	---	---	1535.86	1541.20	1544.46	1542.98	1542.96	1537.87	---	---	1537.07
15	---	---	---	1539.09	1541.34	1543.89	1542.61	1541.94	1537.10	---	---	1536.31
20	---	---	---	1538.99	1542.03	1543.05	1542.45	1541.09	1536.49	---	---	1535.54
25	---	---	1537.97	1539.10	1543.61	1542.82	1541.94	1540.46	---	---	---	1535.02
EOM	---	---	1536.20	1541.02	1543.17	1544.25	1541.56	1539.39	---	---	---	1534.51

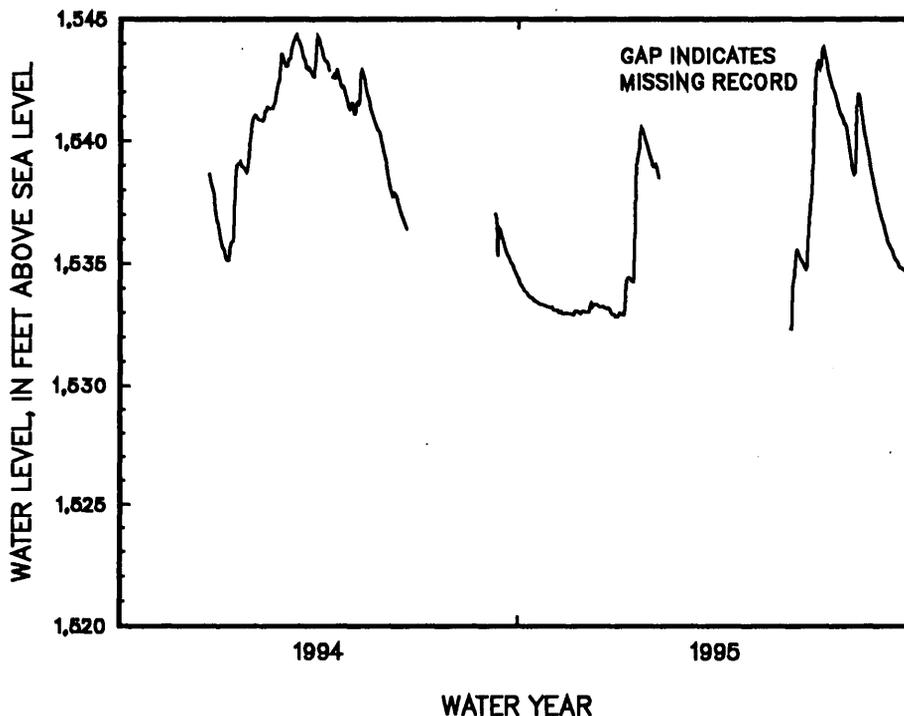
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1544.55 MAR 10, 1994 LOWEST INSTANTANEOUS 1534.46 SEP 30, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1534.07	1533.12	1533.16	1532.94	1539.05	---	---	---	---	1543.01	1538.72	1535.96
10	1533.77	1533.02	1533.34	1534.44	---	---	---	---	1534.13	1543.49	1541.87	1535.44
15	1533.58	1532.97	1533.26	1534.86	---	---	---	---	1535.53	1542.46	1540.33	1534.94
20	1533.41	1532.95	1533.19	1539.95	---	---	---	---	1535.03	1541.75	1539.04	1534.74
25	1533.34	1533.08	1533.07	1540.23	---	---	---	---	1537.22	1541.05	1537.90	---
EOM	1533.22	1533.08	1532.86	1539.26	---	---	---	---	1542.07	1540.08	1536.77	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1543.99 MAR 10, 1995 LOWEST INSTANTANEOUS 1532.83 DEC 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383152078570902. Local number, 39S 9.

LOCATION.--Lat 38°31'52", long 78°57'09", Hydrologic Unit 02070005, 400 ft southwest of State Highway 771 and 1.1 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 40 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1518.11 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.77 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1518.08 ft above sea level, Mar. 10, 1994; lowest measured, 1512.22 ft above sea level, Dec. 30, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	1516.51	1512.87	1516.71	---	1516.71	1514.94	1513.07	1512.52	1513.47	1513.73
10	---	---	1515.31	1513.30	---	1518.01	1516.14	1516.76	1513.25	1512.50	1513.00	1513.54
15	---	---	1513.76	1515.80	1516.83	1517.41	1516.13	1515.69	1513.03	1512.53	1513.15	1513.42
20	---	1513.13	1514.10	1515.16	---	1516.80	1515.99	1514.77	1512.80	1512.60	1516.85	1513.32
25	---	1512.81	1513.45	1515.95	1517.63	1516.26	1515.54	1513.97	1512.64	1512.68	1514.67	1513.04
EOM	---	1513.88	1513.27	---	1517.34	1517.36	1515.22	1513.32	1512.57	1512.81	1513.69	---

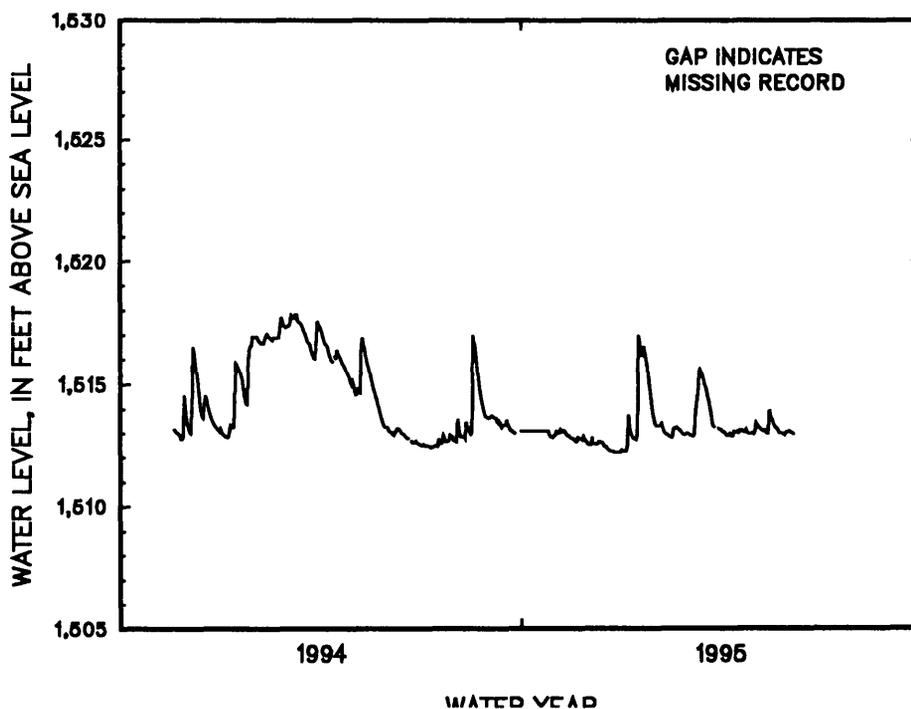
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1518.08 MAR 10, 1994 LOWEST INSTANTANEOUS 1512.41 JUL 11, 1994

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1513.09	1513.09	1512.91	1512.41	1513.44	1512.91	1513.01	1513.37	1513.01	---	---	---
10	1513.08	1513.17	1512.61	1512.96	1512.99	1514.44	1512.96	1513.18	---	---	---	---
15	1513.08	1512.87	1512.60	1515.27	1512.84	1515.43	1513.10	1514.09	---	---	---	---
20	1513.08	1512.70	1512.33	1516.76	1513.26	1514.57	1513.13	1513.32	---	---	---	---
25	1513.09	1512.81	1512.25	1515.51	1513.01	1513.39	1513.13	1513.02	---	---	---	---
EOM	1512.93	1512.68	1512.23	1513.48	1512.98	1513.17	1513.04	1513.04	---	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1517.13 JAN 16, 1995 LOWEST INSTANTANEOUS 1512.22 DEC 30, 1994

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383224078574801. Local number, 39S 10.

LOCATION.--Lat 38°32'24", long 78°57'48", Hydrologic Unit 02070005, end of State Highway 771 and 0.7 mi north of the intersection of State Highways 771 and 773. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Martinsburg Formation, upper part, of Late and Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 10.8 ft, screened 5.8 to 10.8 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1736.59 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 3.80 ft land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--November 1993 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1737.61 ft above sea level, Jul. 01, 1995; lowest measured, 1732.36 ft above sea level, Nov. 20, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	1735.35	1736.35	---	1736.35	1736.47	1736.95	1735.21	1734.24	1734.43	1735.16
10	---	---	1736.43	---	---	1736.73	1736.58	1737.02	1735.77	1734.03	1734.27	1734.71
15	---	---	---	---	---	---	1736.65	1736.85	1735.64	1733.82	1734.49	1734.40
20	---	1733.13	1736.31	---	1736.54	1736.14	1736.69	1736.56	---	1733.95	1736.48	1734.01
25	---	1732.87	---	1736.16	1736.48	1736.36	1736.69	1736.30	1734.99	1734.36	1735.81	1733.87
30	---	1733.70	1736.03	1736.40	---	1736.51	1736.79	1735.69	1734.62	1734.28	1735.84	1733.53
EOM	---	1733.70	---	1736.38	1736.15	1736.55	1736.79	1735.71	1734.62	1734.24	1735.55	1733.53

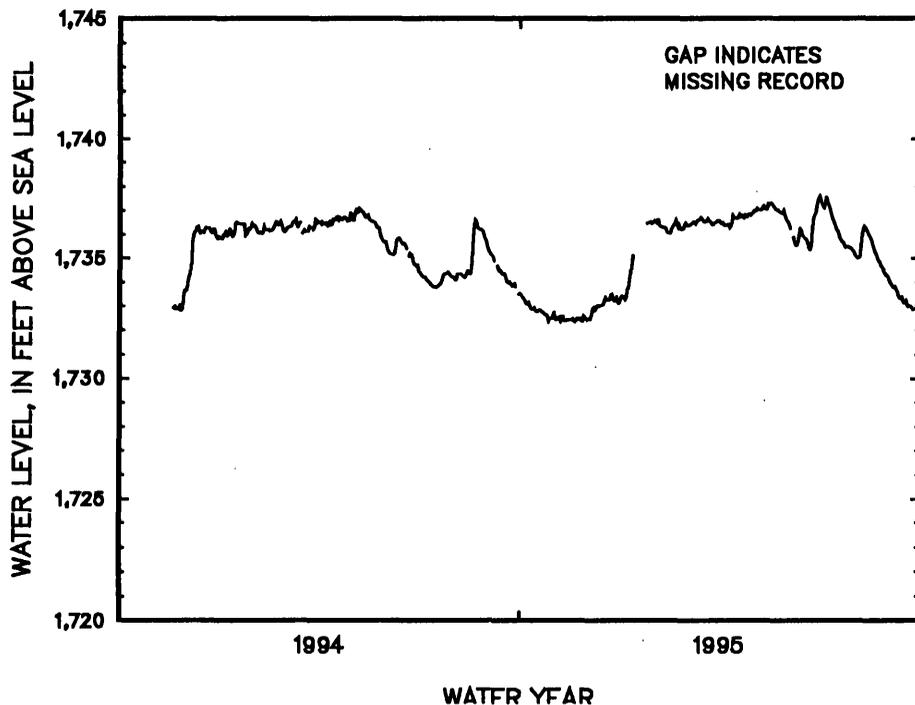
WATER YEAR 1994 HIGHEST INSTANTANEOUS 1737.29 MAY 06, 1994 LOWEST INSTANTANEOUS 1732.82 NOV 25, 1993

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1733.32	1732.56	1732.79	1733.33	1736.53	1736.41	1736.40	1737.11	---	1737.15	1735.04	1733.86
10	1733.06	1732.54	1733.07	1734.53	1736.28	1736.48	1736.32	1737.20	1735.59	1737.14	1736.35	1733.53
15	1732.85	1732.45	1733.05	---	1736.12	1736.72	1736.71	1737.29	1736.06	1736.39	1735.94	1733.17
20	1732.83	1732.39	1733.26	---	1736.66	1736.59	1736.77	1737.20	1735.70	1735.80	1735.30	1733.04
25	1732.69	1732.51	1733.40	1736.50	1736.27	1736.43	1736.83	1736.98	1736.78	1735.47	1734.76	---
EOM	1732.65	1732.53	1733.24	1736.56	1736.55	1736.60	1736.90	1736.76	1737.53	1735.35	1734.31	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1737.61 JUL 01, 1995 LOWEST INSTANTANEOUS 1732.36 NOV 20, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383151078570902. Local number, 39S 13.

LOCATION.--Lat 38°31'51", long 78°57'09", Hydrologic Unit 02070005, 600 ft southwest of State Highway 771 and 1.0 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 11 ft, screened 8 to 11 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1515.00 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Top of casing, 4.2 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--September 1994 to September 1995.

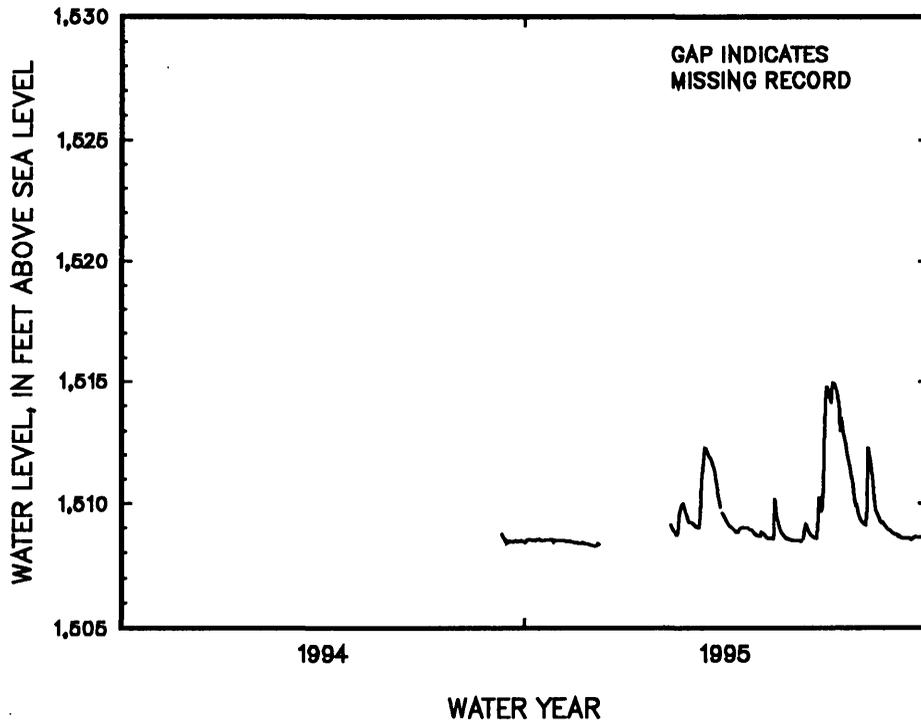
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1515.22 ft above sea level, Jul. 05, 1995; lowest measured, 1508.29 ft above sea level, Dec. 04, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1508.55	1508.49	1508.37	---	---	1509.08	1509.08	1508.78	1508.50	1514.48	1509.18	1508.64
10	1508.52	1508.46	---	---	1509.17	1511.19	1508.85	1508.59	1508.68	1514.69	1511.65	1508.60
15	1508.53	1508.42	---	---	1508.73	1512.21	1509.02	1510.48	1508.86	1513.36	1509.69	1508.55
20	1508.53	1508.40	---	---	1510.00	1511.68	1509.01	1508.99	1508.63	1512.00	1509.27	1508.64
25	1508.52	1508.38	---	---	1509.50	1510.49	1508.92	1508.62	1510.08	1510.82	1508.96	1508.64
EOM	1508.49	1508.33	---	---	1509.22	1509.46	1508.68	1508.50	1514.64	1509.44	1508.77	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1515.22 JUL 05, 1995 LOWEST INSTANTANEOUS 1508.29 DEC 04, 1994

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383211078574001. Local number, 39S 14.

LOCATION.--Lat 38°32'11", long 78°57'40", Hydrologic Unit 02070005, 1,100 ft southwest of State Highway 771 and 1.7 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying New Market Limestone of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 62 ft, screened 39 to 59 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1633.1 ft above National Geodetic Vertical Datum of 1929, from level.
Measuring point: Floor of digital recorder shelter, 3.92 ft above sea level.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--September 1994 to current year.

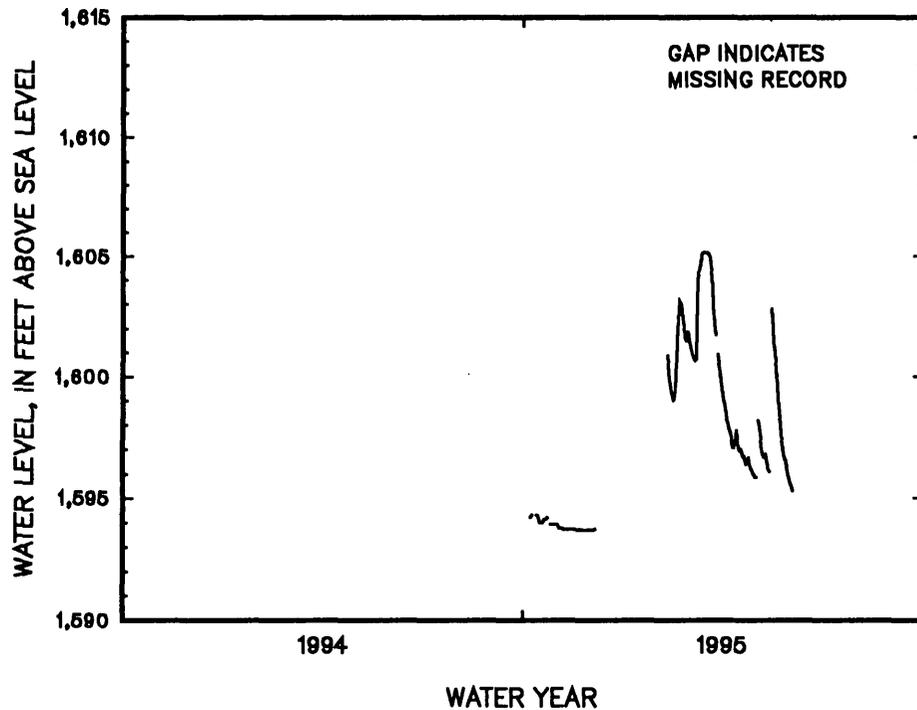
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1605.20 ft above sea level, Mar. 17, 1995;
lowest measured, 1593.48 ft above sea level, Dec. 07, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	1593.80	1593.71	---	---	1600.89	1598.44	1598.11	---	---	---	---
10	1594.32	1593.73	---	---	1600.92	1604.38	1597.42	1596.74	---	---	---	---
15	1594.39	1593.72	---	---	1599.09	1605.17	1597.64	---	---	---	---	---
20	1594.10	1593.71	---	---	1602.75	1605.07	1596.80	1600.65	---	---	---	---
25	---	1593.71	---	---	1602.21	1602.51	1596.84	1597.81	---	---	---	---
EOM	1593.94	1593.70	---	---	1601.92	1600.01	1596.01	1596.09	---	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1605.20 MAR 17, 1995 LOWEST INSTANTANEOUS 1593.48 DEC 07, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383211078574002. Local number, 39S 15.

LOCATION.--Lat 38°32'11", long 78°57'40", Hydrologic Unit 02070005, 1,100 ft southwest of State Highway 771 and 1.7 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--New Market Limestone of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 99 ft, screened 85 to 95 ft

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1633.6 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Floor of digital recorder shelter, 3.74 ft above sea-level.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--October 1994 to current year.

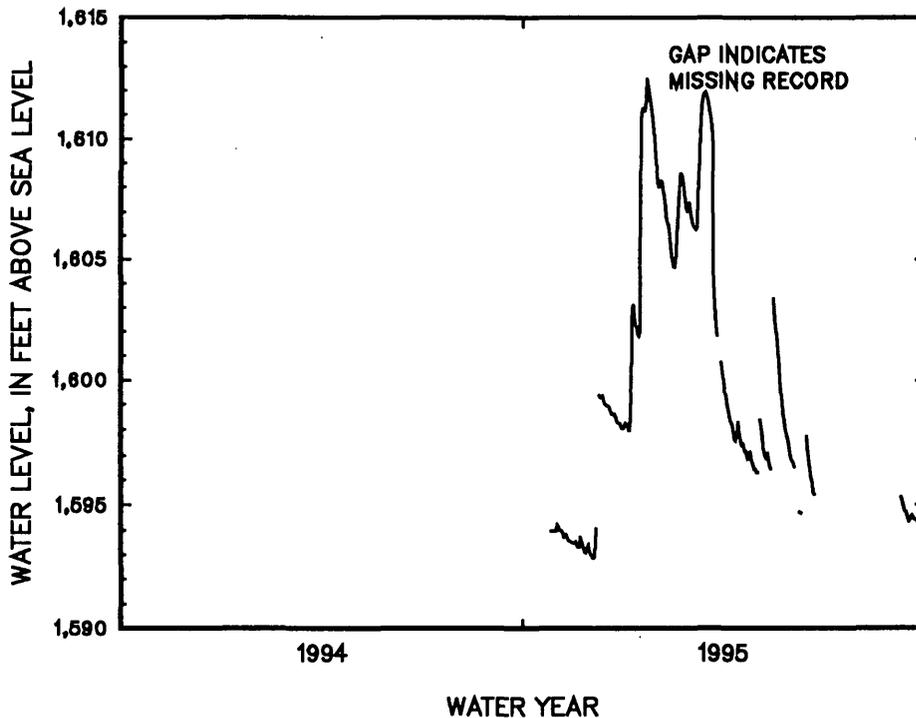
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1612.96 ft above sea level, Jan. 20, 1995; lowest measured, 1592.87 ft above sea level, Dec. 04, 1994.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	1594.00	1593.92	1598.01	1608.19	1606.44	1598.94	1598.29	---	1604.42	---	---
10	---	1593.75	1599.30	1602.83	1606.53	1610.06	1597.93	1597.12	1594.83	1604.42	---	1595.19
15	---	1593.52	1599.01	1606.71	1604.75	1611.96	1598.12	---	1598.01	1604.42	---	1594.40
20	---	1593.33	1598.74	1612.59	1608.25	1610.99	1597.28	1601.57	1596.05	1604.42	---	1594.49
25	---	1593.35	1598.44	1611.44	1607.74	1602.63	1597.30	1598.88	1604.42	1604.42	---	1594.33
EOM	1594.11	1593.31	1598.06	1608.61	1607.45	1600.54	1596.46	1597.28	1604.42	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1612.96 JAN 20, 1995 LOWEST INSTANTANEOUS 1592.87 DEC 04, 1994

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383211078573201. Local number, 39S 16.

LOCATION.--Lat 38°32'11", long 78°57'32", Hydrologic Unit 02070005, 700 ft southwest of State Highway 771 and 1.7 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying New Market Limestone of Early Ordovician and Late Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 52 ft, screened 17 to 27 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1585.9 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Floor of digital recorder shelter, 3.49 ft above sea level.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--September 1994 to current year.

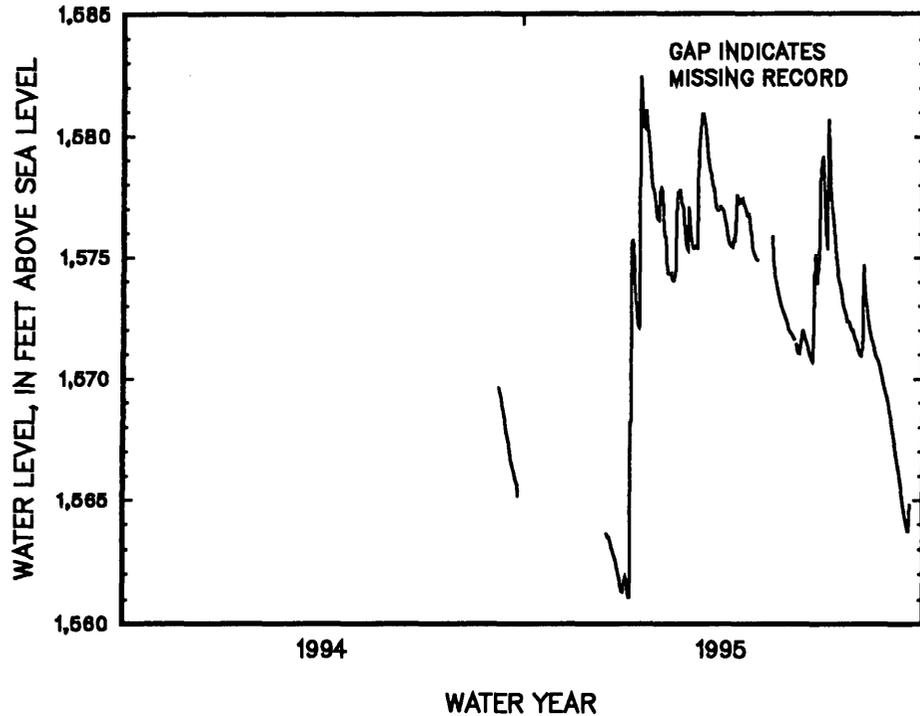
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1583.00 ft above sea level, Jul. 05, 1995; lowest measured, 1561.11 ft above sea level, Jan. 07, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1560.51	---	---	1561.61	1577.89	1575.44	1576.25	1575.46	1571.69	1577.74	1570.99	1567.07
10	1560.51	---	---	1575.31	1574.49	1579.68	1575.55	1575.46	1571.12	1576.94	1573.09	1565.63
15	1560.51	---	---	1576.10	1574.07	1580.84	1577.55	1576.28	1571.75	1574.46	1571.62	1564.10
20	1560.51	---	1563.44	1581.22	1577.72	1578.73	1577.28	1574.01	1570.99	1573.06	1570.82	---
25	1560.51	---	1562.65	1579.15	1576.78	1577.65	1576.88	1573.01	1574.70	1572.50	1569.88	---
EOM	---	---	1561.39	1576.93	1575.61	1577.09	1575.13	1572.17	1580.02	1571.65	1568.53	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1583.00 JUL 05, 1995 LOWEST INSTANTANEOUS 1561.11 JAN 07, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383203078571901. Local number, 39S 17.

LOCATION.--Lat 38°32'03", long 78°57'19", Hydrologic Unit 02070005, 400 ft southwest of State Highway 771 and 1.3 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 55 ft, length of casing unknown.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1557.20 ft above National Geodetic Vertical Datum, from level.
Measuring point: Floor of digital recorder shelter, 3.92 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--September 1994 to September 1995.

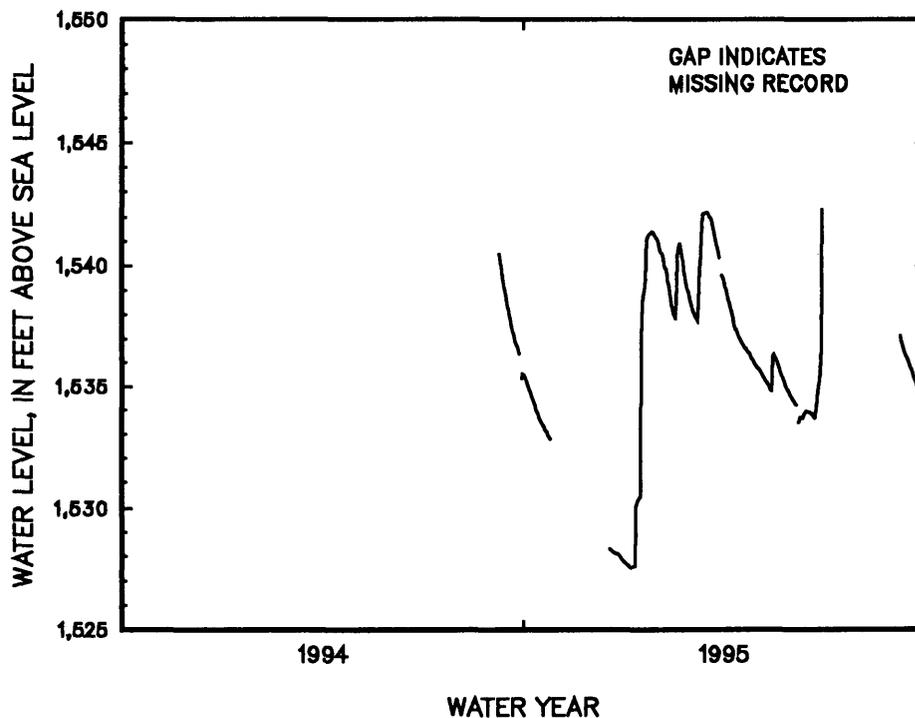
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1548.36 ft above sea level, Jun. 30, 1995;
lowest measured, 1527.56 ft above sea level, Jan. 07, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1535.04	---	---	1527.61	1540.38	1538.08	1538.70	1535.59	1534.25	---	---	---
10	1534.40	---	1528.58	1528.61	1539.29	1540.01	1537.72	1535.17	1533.66	---	---	1536.65
15	1533.78	---	1528.60	1532.82	1537.99	1542.20	1537.07	1536.32	1533.97	---	---	1535.97
20	1533.29	---	1528.24	1540.64	1541.00	1541.99	1536.63	1535.94	1533.85	---	---	1535.34
25	1532.84	---	1528.12	1541.37	1539.59	1541.08	1536.33	1535.30	1535.13	---	---	---
EOM	---	---	1527.80	1541.05	1538.97	1539.62	1535.89	1534.65	---	---	---	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1548.36 JUN 30, 1995 LOWEST INSTANTANEOUS 1527.56 JAN 06, 1995

DAILY LOW-WATER LEVELS



ROCKINGHAM COUNTY

383155078571202. Local number, 39S 19.

LOCATION.--Lat 38°31'55", long 78°57'12", Hydrologic Unit 02070005, 500 ft southwest of State Highway 771 and 1.1 mi north of the intersection of State Highways 771 and 613. Owner: U.S. Geological Survey.

AQUIFER.--Elbrook Formation of Late and Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in. to 17 ft, diameter 2 in. from 17 to 47 ft, depth 47 ft, screened 27 to 47 ft.

INSTRUMENTATION.--Digital recorder--30-minute punch. Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1523.90 ft above sea level, from level. Measuring point: Floor of digital recorder shelter, 4.12 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

PERIOD OF RECORD.--September 1994 to current year.

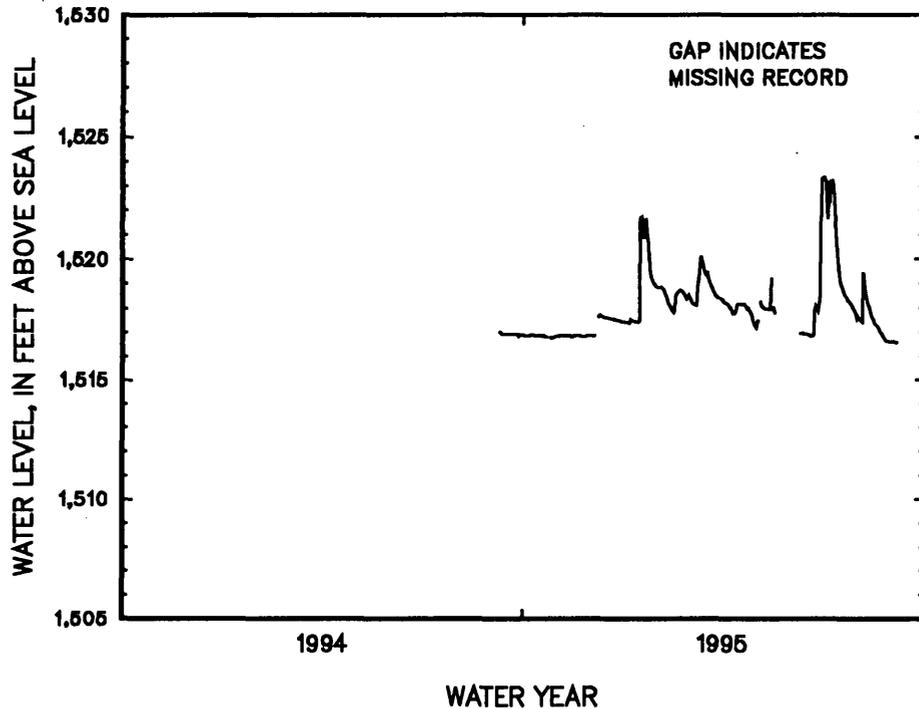
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1523.48 ft above sea level, Jul. 02, 1995; lowest measured, 1516.57 ft above sea level, Sep. 09, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1516.87	1516.86	1516.88	1517.40	1518.85	1518.20	1518.20	1518.37	---	1522.35	1517.66	1516.57
10	1516.88	1516.87	1517.73	1517.47	1518.33	1519.35	1517.82	1517.98	1517.37	1523.20	1518.27	---
15	1516.87	1516.85	1517.63	1520.44	1517.87	1519.66	1518.18	1519.21	1516.91	1519.79	1517.59	---
20	1516.86	1516.87	1517.58	1521.59	1518.72	1519.10	1518.17	---	1516.83	1518.63	1517.17	---
25	---	1516.84	1517.53	1519.72	1518.60	1518.58	1517.94	---	1518.07	1518.27	1516.75	---
BOM	1516.83	1516.86	1517.46	1518.88	1518.46	1518.38	1517.37	---	1523.34	1517.75	1516.59	---

WATER YEAR 1995 HIGHEST INSTANTANEOUS 1523.48 JUL 02, 1995 LOWEST INSTANTANEOUS 1516.57 SEP 09, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

ROCKINGHAM COUNTY

383227078573702. Local number, 39S 20.

LOCATION.--Lat 38°32'27", long 78°57'37", Hydrologic Unit 02070005, 5 ft south of State Highway 771 and 0.4 mi north of the intersection of State Highways 771 and 773. Owner: U.S. Geological Survey.

AQUIFER.--Regolith overlying Stickley Run Member of Martinsburg Formation of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 78 ft, screened 68 to 78 ft

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface is 1763.80 ft above National Geodetic Vertical Datum of 1929, from level. Measuring point: Floor of digital recorder shelter, 5.72 ft above land surface.

REMARKS.--Well sampled periodically for water quality.

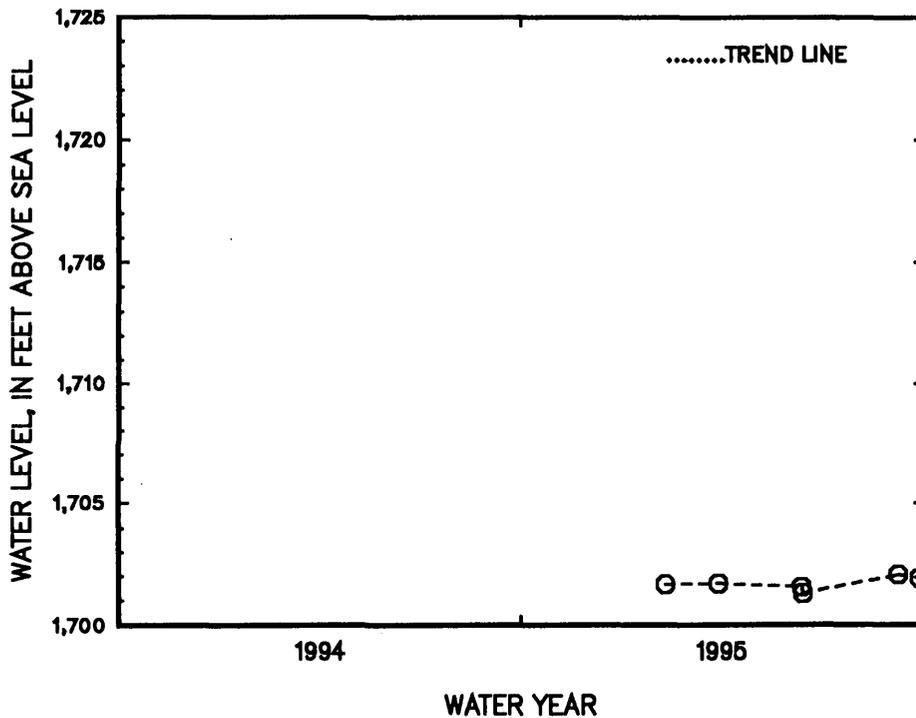
PERIOD OF RECORD.--February 1995 to September 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1702.06 ft above sea level, Sep. 07, 1995; lowest measured, 1701.55 ft above sea level, Jun. 12, 1995.

WATER LEVEL, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
FEB 09	1701.66	MAR 29	1701.70	JUN 12	1701.55	JUN 13	1701.28	SEP 07	1702.06	SEP 26	1701.92

WATER YEAR 1995 HIGHEST 1702.06 SEP 07, 1995 LOWEST 1701.55 JUN 12, 1995



SOUTHAMPTON COUNTY

363410077150801. Local number, 52A 1.

LOCATION.--Lat 36°34'10", long 77°15'08", Hydrologic Unit 03010204, along Seaboard Coastline railroad, 0.15 mi northwest of intersection of State Highways 195 and 701 in Branchville. Owner: L. W. Grizzard.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 217 ft, screened 204 to 217 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 44 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

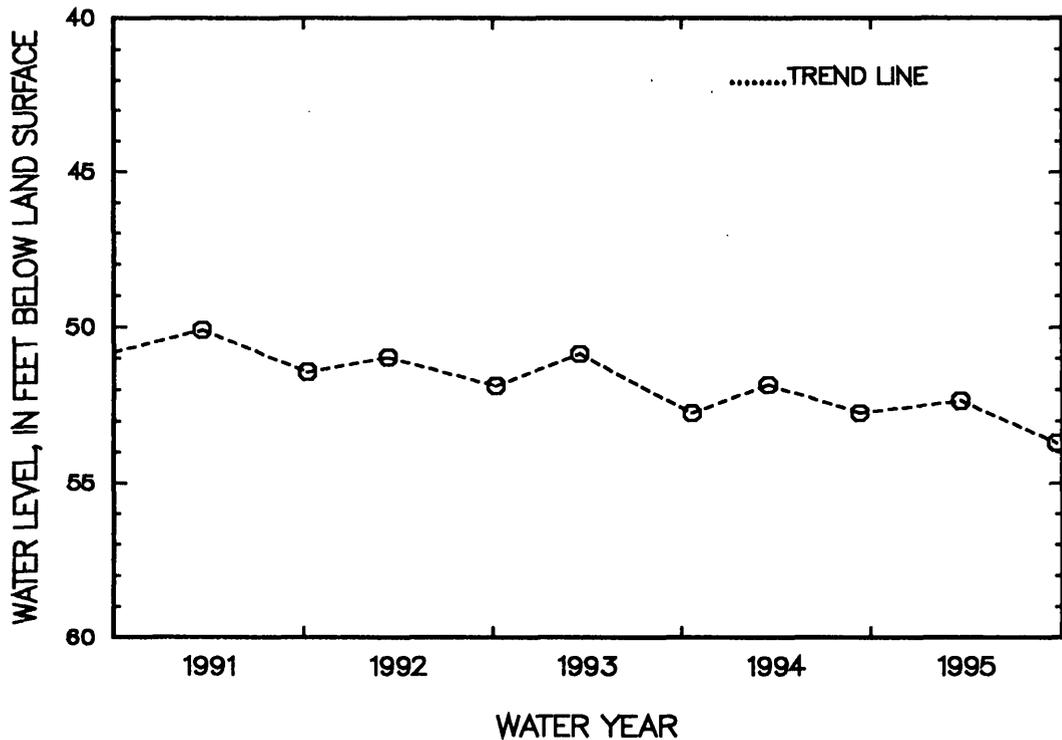
PERIOD OF RECORD.--September 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.85 ft below land-surface datum, Sept. 9, 1970; lowest measured, 53.70 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	52.34	SEP 20	53.70

WATER YEAR 1995 HIGHEST 52.34 MAR 21, 1995 LOWEST 53.70 SEP 20, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

363916077201001. Local number, 52B 8 SOW 178A.

LOCATION.--Lat 36°39'16", long 77°20'10", Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of the intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 316 ft, screened 285 to 295 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Water level may be affected by regional drawdown.

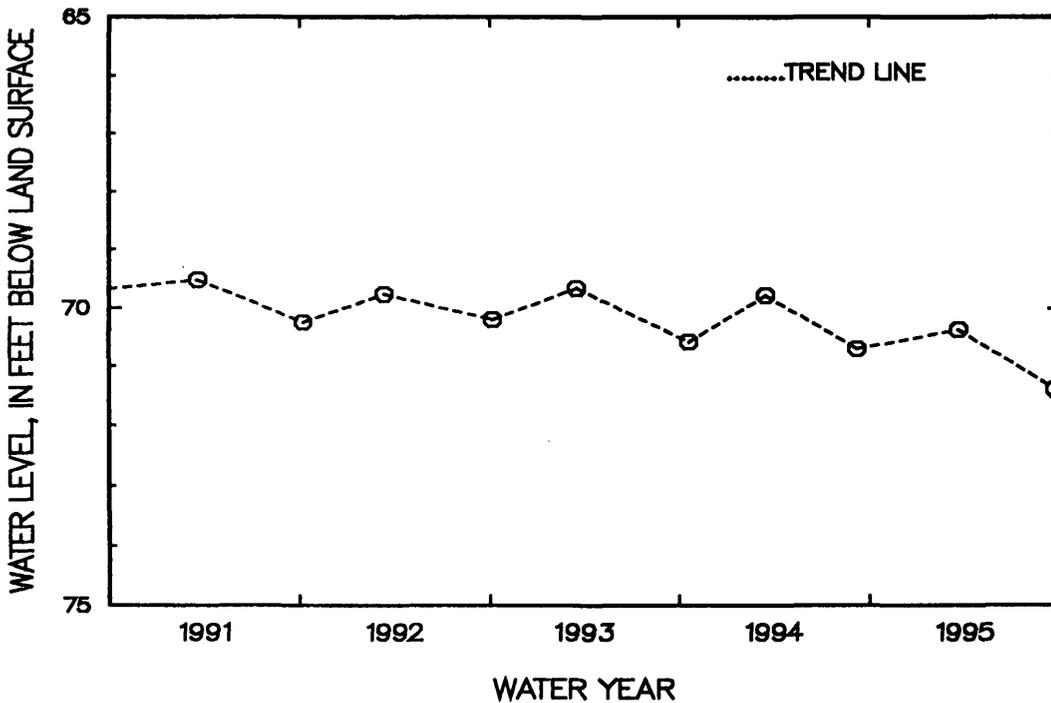
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.30 ft below land-surface datum, Mar. 15, 1990; lowest measured, 71.39 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	70.37	SEP 20	71.39

WATER YEAR 1995 HIGHEST 70.37 MAR 21, 1995 LOWEST 71.39 SEP 20, 1995



SOUTHAMPTON COUNTY

363916077201002. Local number, 52B 9 SOW 178B.

LOCATION.--Lat 36°39'16", long 77°20'10", Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 329 ft, screened 298 to 308 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1987, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

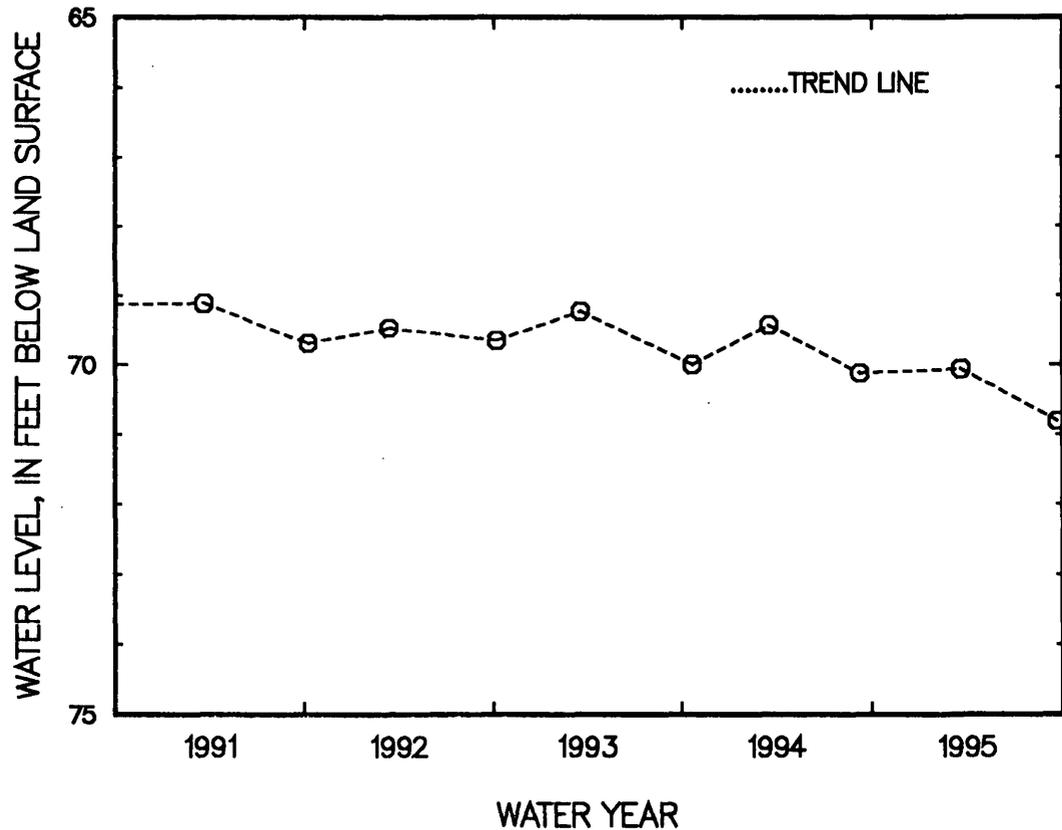
REMARKS.--Water level may be affected by regional drawdown.

PERIOD OF RECORD.--December 1985 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.87 ft below land-surface datum, Mar. 7, 1988; lowest recorded, 70.81 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	DATE	WATER LEVEL	DATE	WATER LEVEL		
	MAR 21	70.06	SEP 20	70.81		
WATER YEAR 1995	HIGHEST	70.06	MAR 21, 1995	LOWEST	70.81	SEP 20, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

363916077201003. Local number, 52B 10 SOW 178C.

LOCATION.--Lat 36°39'16", long 77°20'10". Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 233 ft, screened 218 to 228 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to November 1987, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 1.9 ft above land-surface datum.

REMARKS.--Water level may be affected by regional drawdown.

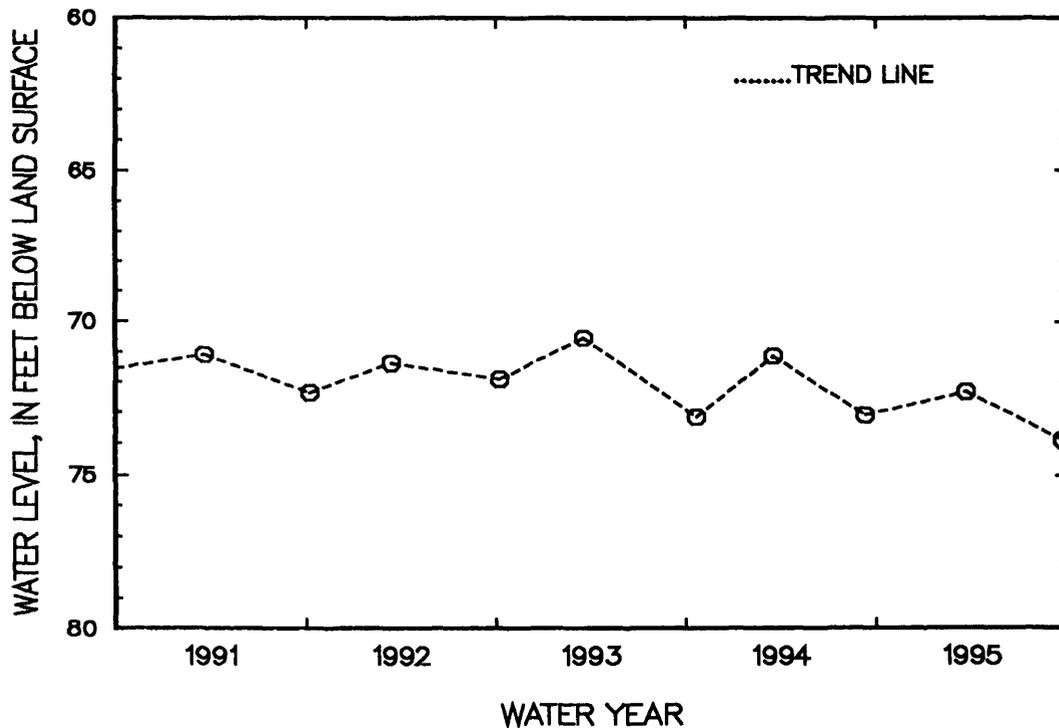
PERIOD OF RECORD.--December 1985 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 69.75 ft below land-surface datum, Apr. 16, 1987; lowest recorded, 73.90 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	72.30	SEP 20	73.90

WATER YEAR 1995 HIGHEST 72.30 MAR 21, 1995 LOWEST 73.90 SEP 20, 1995



SOUTHAMPTON COUNTY

363916077201004. Local number, 52B 11 SOW 178D.

LOCATION.--Lat 36°39'16", long 77°20'10", Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 190 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to November 1987, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 2.1 ft above land-surface datum.

REMARKS.--Water level may be affected by regional drawdown.

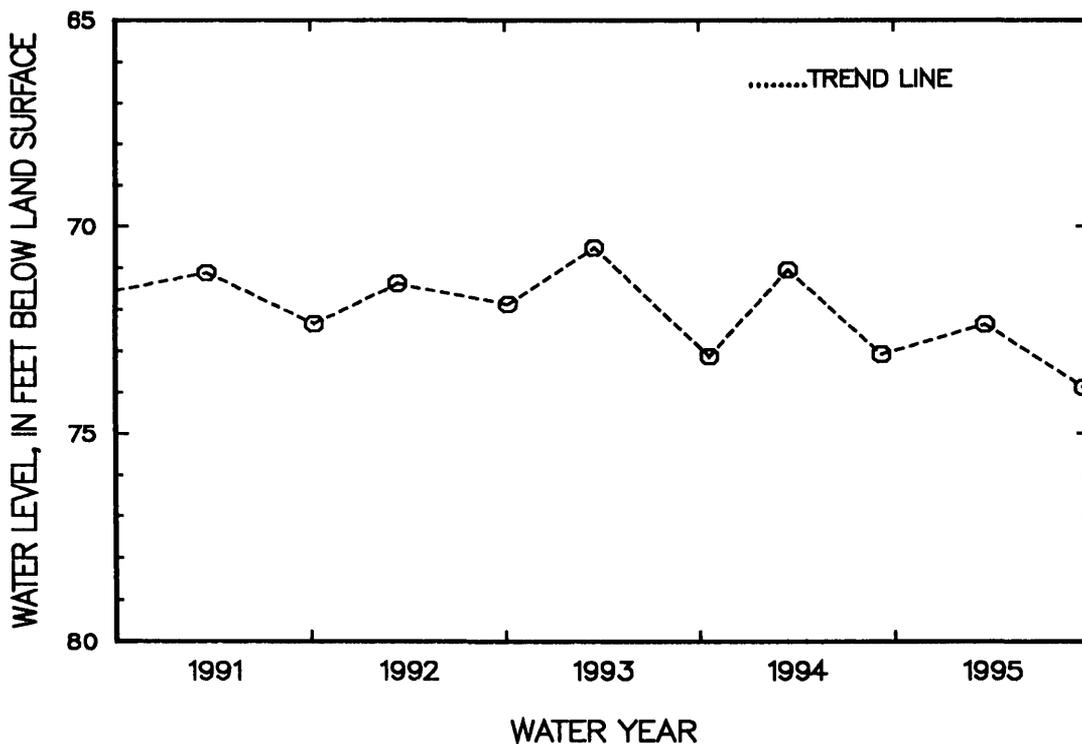
PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 69.81 ft below land-surface datum, Apr. 16, 1987; lowest recorded, 73.89 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	72.37	SEP 20	73.89

WATER YEAR 1995 HIGHEST 72.37 MAR 21, 1995 LOWEST 73.89 SEP 20, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

363916077201005. Local number, 52B 12 SOW 178E.

LOCATION.--Lat 36°39'16", long 77°20'10", Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 135 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to November 1987, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.

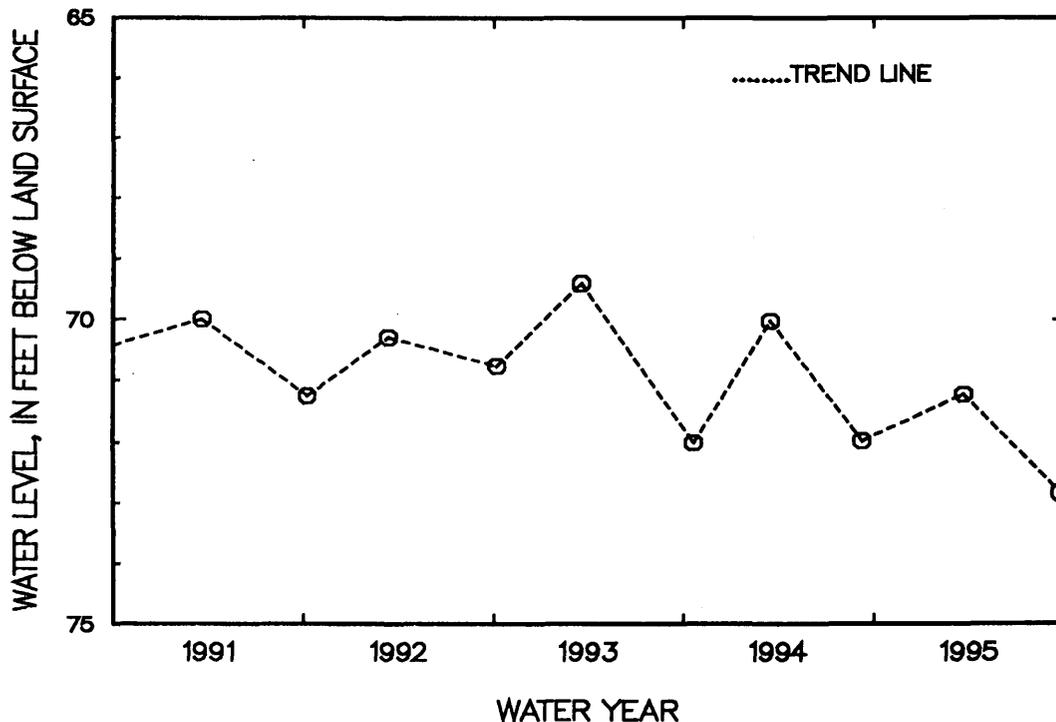
PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 68.75 ft below land-surface datum, Apr. 16, 1987; lowest recorded, 72.86 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	71.23	SEP 20	72.86

WATER YEAR 1995 HIGHEST 71.23 MAR 21, 1995 LOWEST 72.86 SEP 20, 1995



SOUTHAMPTON COUNTY

363916077201006. Local number, 52B 13 SOW 178F.

LOCATION.--Lat 36°39'16", long 77°20'10", Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 65 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Occasional measurements with chalked tape by USGS personnel. Prior to November 1987, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above sea level, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

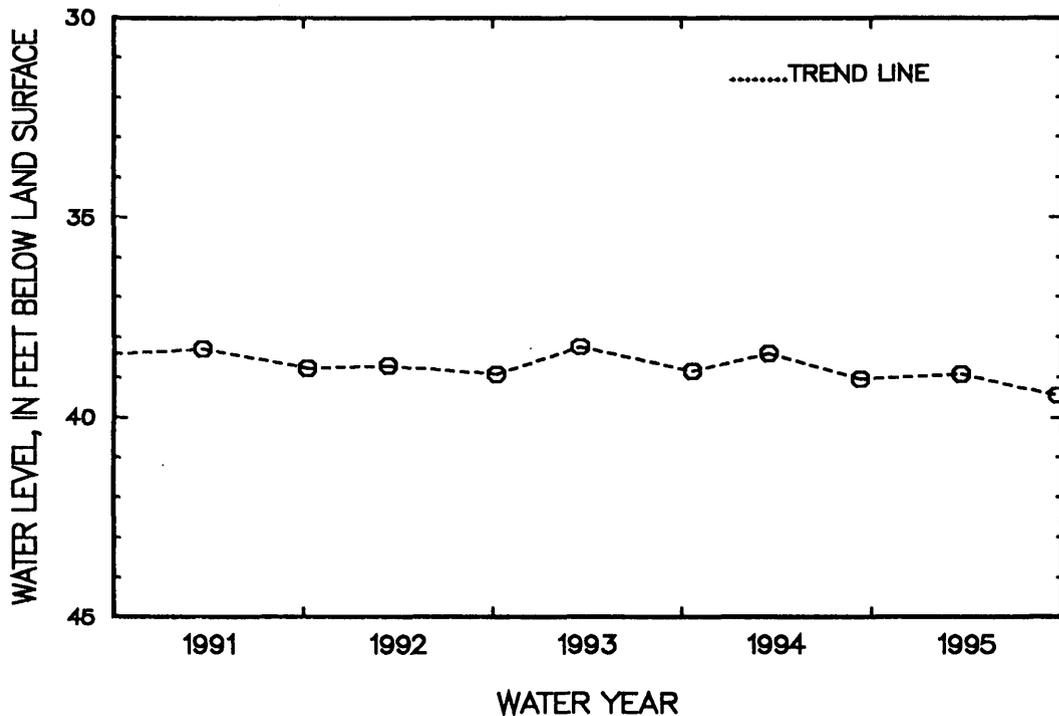
PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 37.90 ft below land-surface datum, Apr. 29, 1987; lowest recorded, 43.77 ft below land-surface datum, Oct. 6-9, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	38.92	SEP 20	39.45

WATER YEAR 1995 HIGHEST 38.92 MAR 21, 1995 LOWEST 39.45 SEP 20, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

363722077014601. Local number, 54A 1.

LOCATION.--Lat 36°37'22", long 77°01'46", Hydrologic Unit 03010201, 100 ft west of State Highway 681, 0.5 mi north of intersection of State Highways 672 and 681, and 2.4 mi north of Sunbeam. Owner: William Britt.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 254 ft, screened 244 to 254 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.03 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

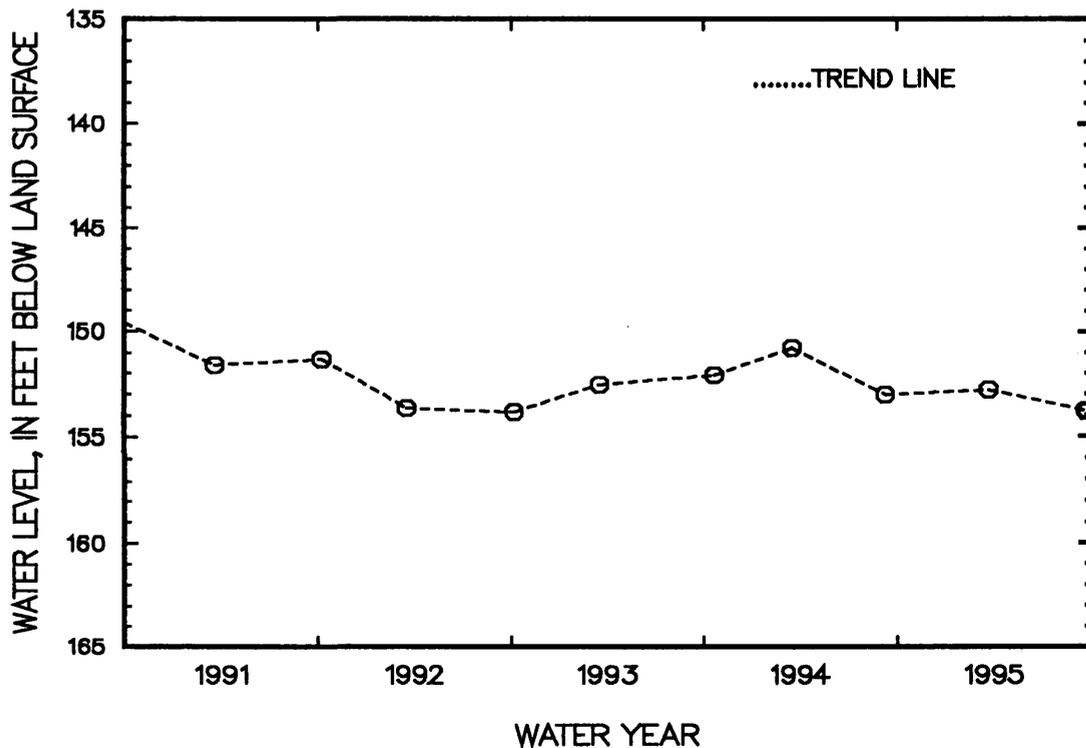
PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 113.40 ft below land-surface datum, Aug. 17, 1970; lowest measured, 153.85 ft below land-surface datum, Oct. 7, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	152.79	SEP 20	153.80

WATER YEAR 1995 HIGHEST 152.79 MAR 22, 1995 LOWEST 153.80 SEP 20, 1995



SOUTHAMPTON COUNTY

364121077013701. Local number, 54B 24 SOW 034.

LOCATION.--Lat 36°41'21", long 77°01'37", Hydrologic Unit 03010201, off U.S. Highway 58, 1.7 mi southeast of Courtland. Owner: Clarence Pittman.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 71 ft, diameter 2 in. from 71 to 224 ft, depth 224 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 29 ft above sea level, from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

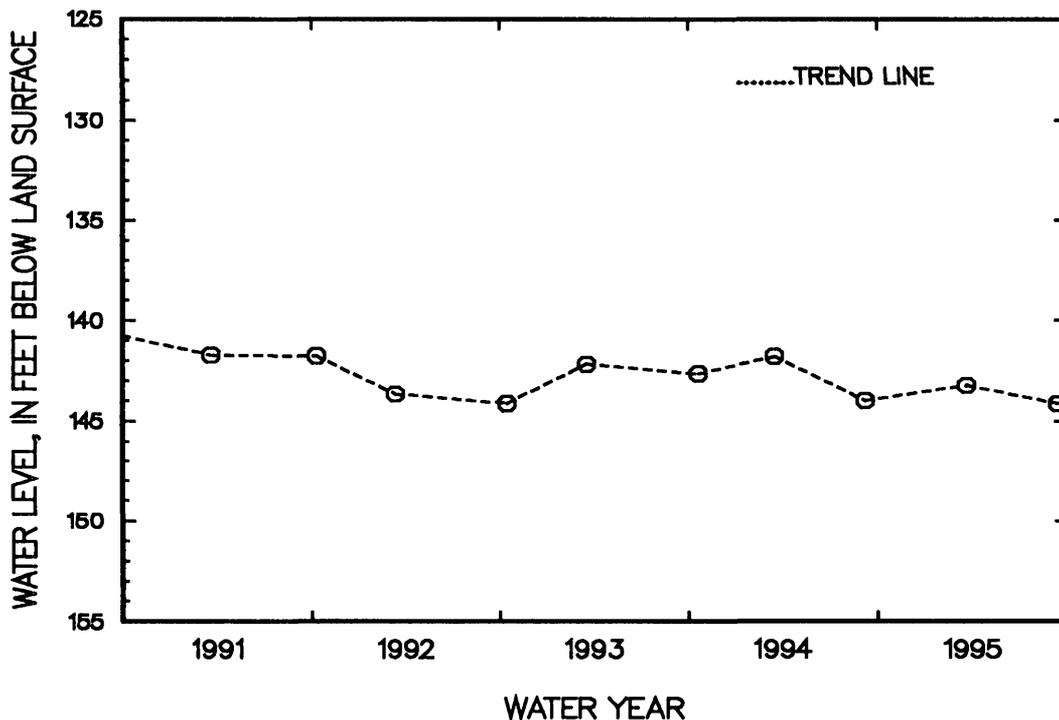
PERIOD OF RECORD.--September 1970 to August 1974, December 1975, January 1978 to September 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.82 ft below land-surface datum, Dec. 29, 1970; lowest measured, 144.15 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	143.24	SEP 12	144.15

WATER YEAR 1995 HIGHEST 143.24 MAR 22, 1995 LOWEST 144.15 SEP 12, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

364706077072301. Local number, 54C 1.

LOCATION.--Lat 36°47'06", long 77°07'23", Hydrologic Unit 03010201, 0.25 mi northwest of intersection of State Highways 35 and 713 in Sebrell. Owner: Norfolk and Western Railway.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 344 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 58.4 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water level affected by regional drawdown.

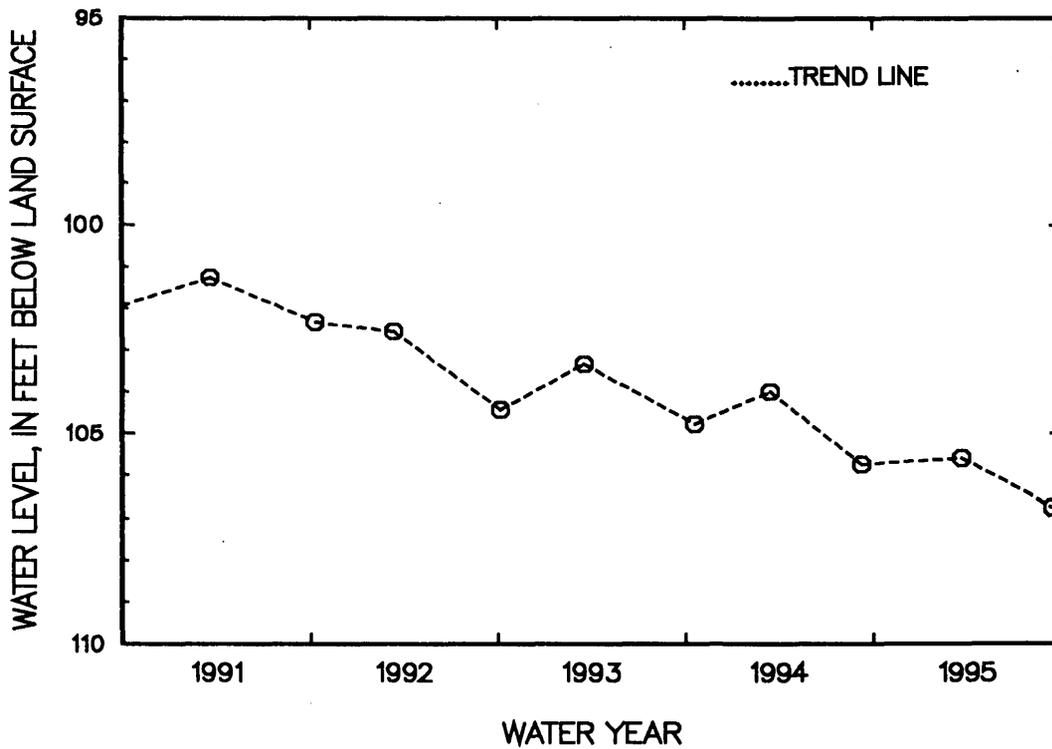
PERIOD OF RECORD.--1907, July 1938, April 1940 to December 1946, October 1948 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.00 ft below land-surface datum, 1907; lowest measured, 106.75 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	105.60	SEP 12	106.75

WATER YEAR 1995 HIGHEST 105.60 MAR 21, 1995 LOWEST 106.75 SEP 12, 1995



SOUTHAMPTON COUNTY

363632076580101. Local number, 55A 3 SOW 086.

LOCATION.--Lat 36°36'32", long 76°58'01", Hydrologic Unit 03010201, 0.1 mi southeast of intersection of State Highways 687 and 689, 4.0 mi southwest of Franklin. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 745 ft, screened 714 to 724 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 18 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 11, 1988; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 7, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

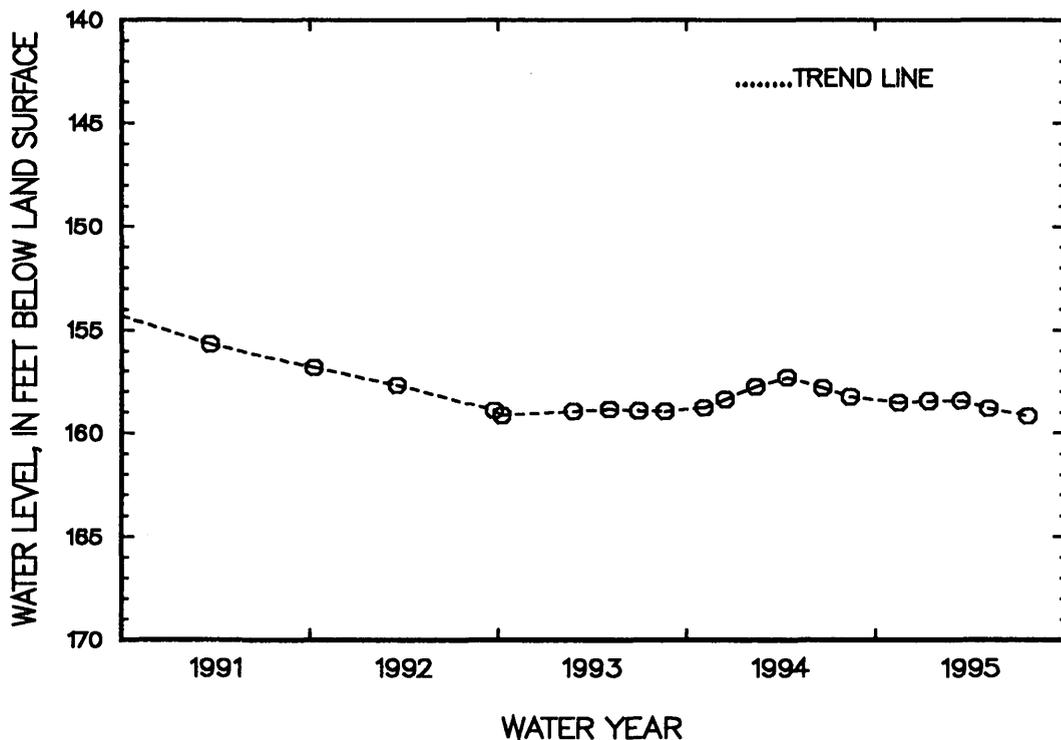
PERIOD OF RECORD.--March 1977, October 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.00 ft below land-surface datum, Mar. 18, 1977; lowest measured, 159.17 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	158.52	JAN 11	158.45	MAR 14	158.44	MAY 05	158.80	JUL 19	159.17

WATER YEAR 1995 HIGHEST 158.44 MAR 14, 1995 LOWEST 159.17 JUL 19, 1995



GROUND-WATER LEVELS

SOUTHAMPTON COUNTY

365120076585101. Local number, 55C 10.

LOCATION.--Lat 36°51'20", long 76°58'51", Hydrologic Unit 03010202, 100 ft west of State Highway 616, 0.3 mi south of Berlin. Owner: R. L. Harrup.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 326 ft, screened 316 to 326 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 65 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

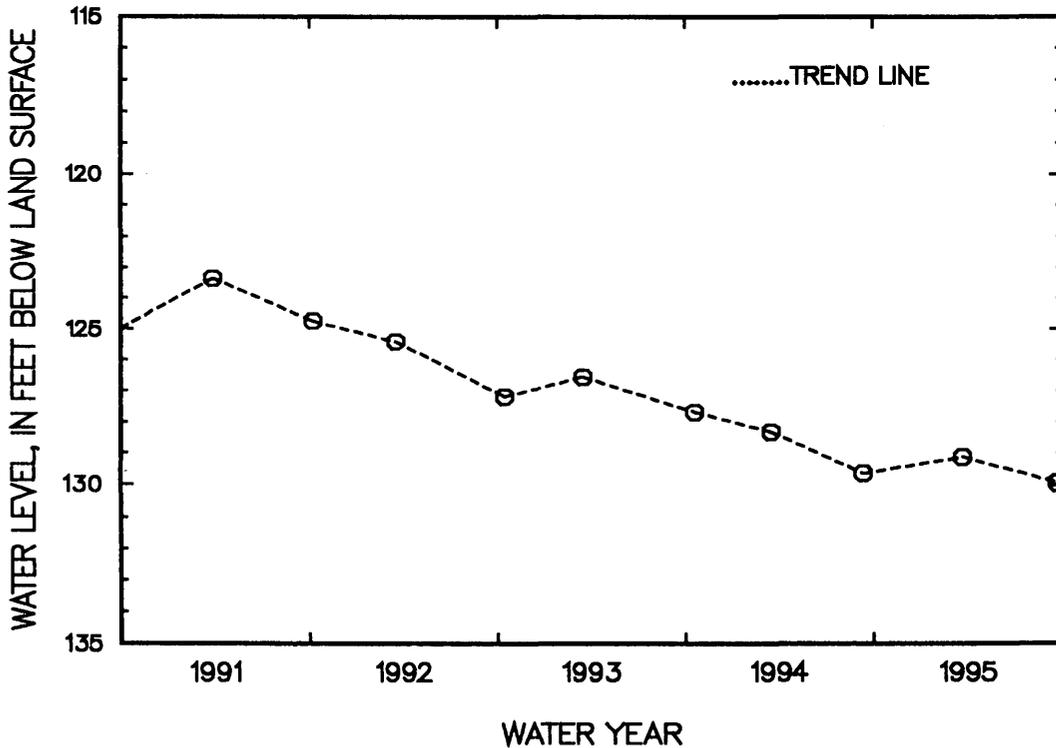
PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.62 ft below land-surface datum, Aug. 21, 1970; lowest measured, 129.93 ft below land-surface datum, Sept. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	129.13	SEP 20	129.93

WATER YEAR 1995 HIGHEST 129.13 MAR 22, 1995 LOWEST 129.93 SEP 20, 1995



SOUTHAMPTON COUNTY

365415076535201. Local number, 55D 5.

LOCATION.--Lat 36°54'15", long 76°53'20", Hydrologic Unit 03010202, off State Highway 616, 0.25 mi southwest of intersection of State Highway 616 and U.S. Highway 460 in Ivor. Owner: Town of Ivor.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 8 in., depth 450 ft, screened 384 to 394 ft, 425 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of water-level access line, 1.75 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

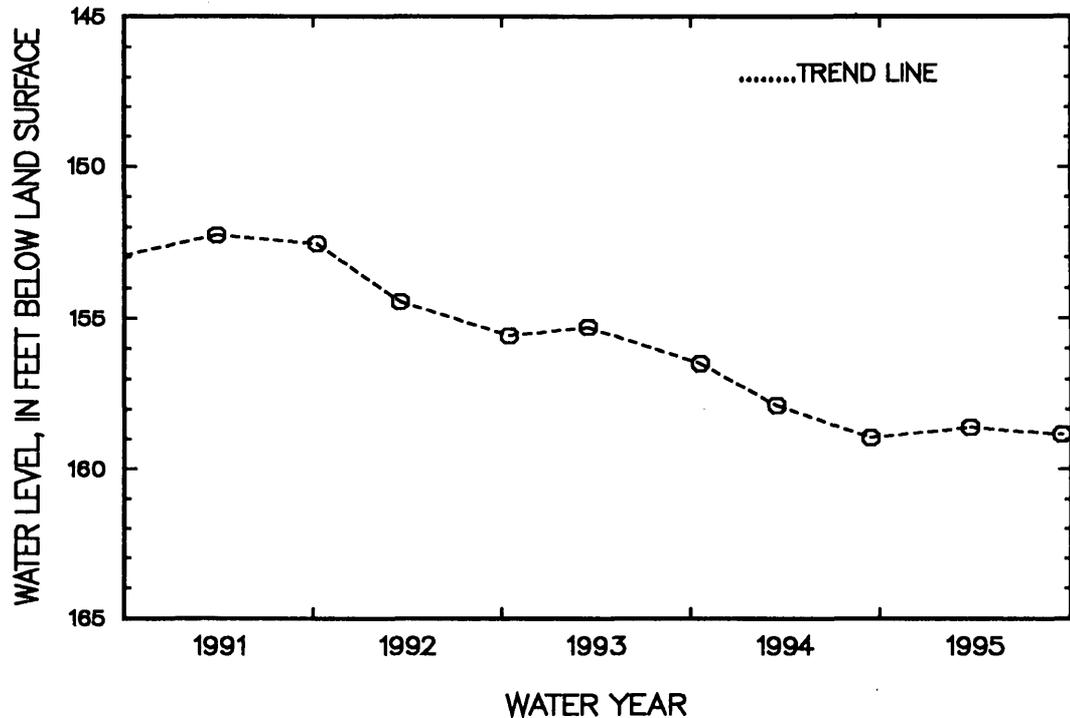
PERIOD OF RECORD.--October 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120.47 ft below land-surface datum, Nov. 2, 1970; lowest measured, 158.94 ft below land-surface datum, Sept. 12, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	158.60	SEP 12	158.83

WATER YEAR 1995 HIGHEST 158.60 MAR 22, 1995 LOWEST 158.83 SEP 12, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

363625076522601. Local number, 56A 9 SOW 076A.

LOCATION.--Lat 36°36'25", long 76°52'26", Hydrologic Unit 03010203, 700 ft west of State Highway 615, 8.1 mi south of Holland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper, middle, and lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,015 ft, screened 452 to 457 ft, 500 to 505 ft, 610 to 615 ft, 743 to 748 ft, 812 to 817 ft, 988 to 993 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 80 ft above sea level, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum prior to Jan. 12, 1988; 2.0 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Plugged at 520 ft below land surface in 1977; water levels thereafter are questionable.

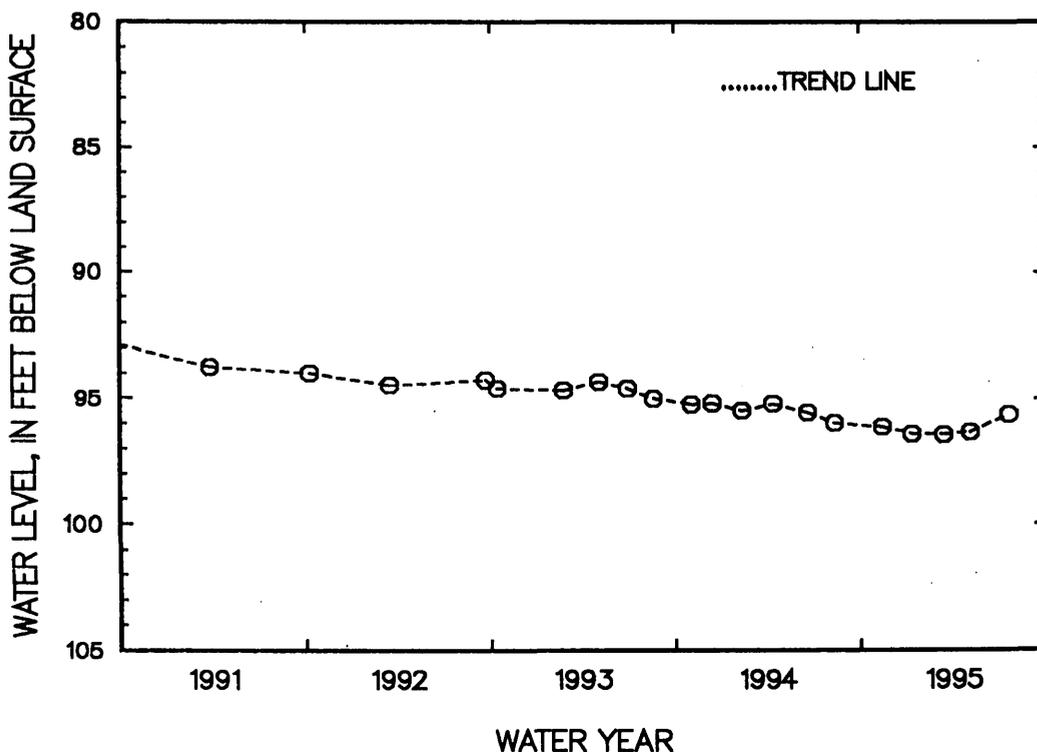
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.99 ft below land-surface datum, Jan. 8, 1979; lowest measured, 96.42 ft below land-surface datum, Mar. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	96.12	JAN 11	96.40	MAR 14	96.42	MAY 05	96.32	JUL 19	95.63

WATER YEAR 1995 HIGHEST 95.63 JUL 19, 1995 LOWEST 96.42 MAR 14, 1995



CITY OF SUFFOLK

363345076470201. Local number, 56A 10 SOW 088A.

LOCATION.--Lat 36°33'45", long 76°47'02", Hydrologic Unit 03010203, 0.1 mi north of intersection of State Highways 668 and 669, 1.9 mi west of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,060 ft, screened 1,050 to 1,060 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

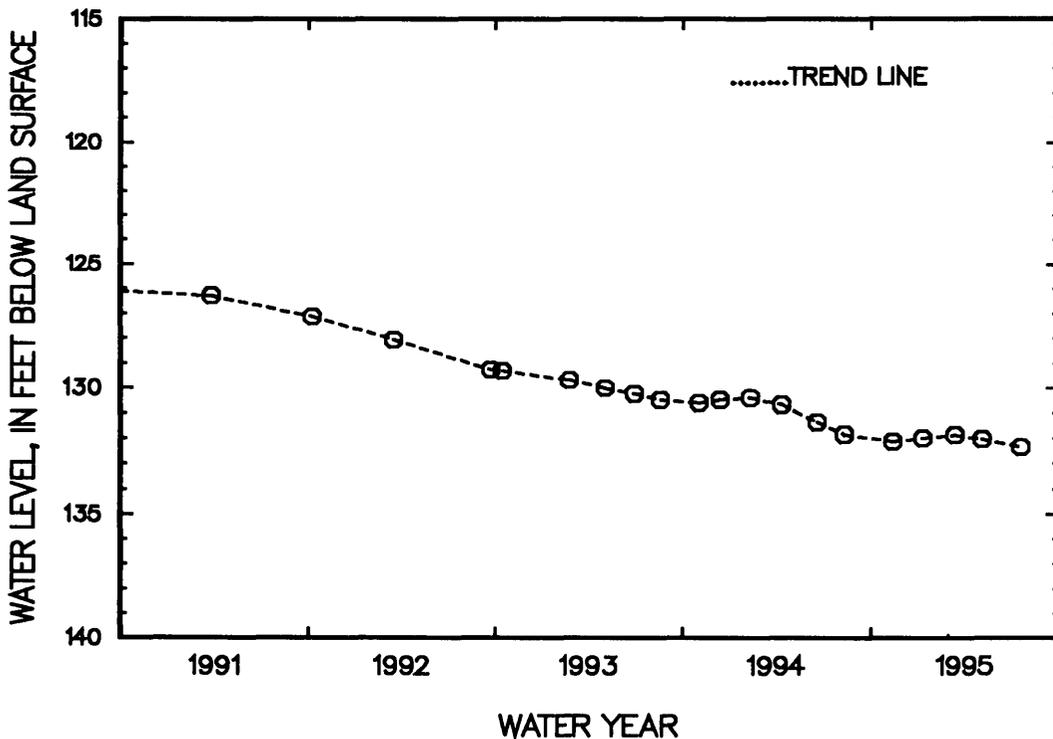
PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104.70 ft below land-surface datum, June 30, 1980; lowest measured, 132.34 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	132.13	JAN 11	132.00	MAR 14	131.87	MAY 05	132.03	JUL 19	132.34

WATER YEAR 1995 HIGHEST 131.87 MAR 14, 1995 LOWEST 132.34 JUL 19, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

363653076455401. Local number, 56A 11 SOW 089.

LOCATION.--Lat 36°36'53", long 76°45'54", Hydrologic Unit 03010203, off State Highway 616, 1.1 mi east of Holy Neck Church, and 3.4 mi north of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 861 ft, screened 830 to 840 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 79 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Nov. 18, 1987; 0.6 ft Nov. 18, 1987, to Jan. 12, 1988; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

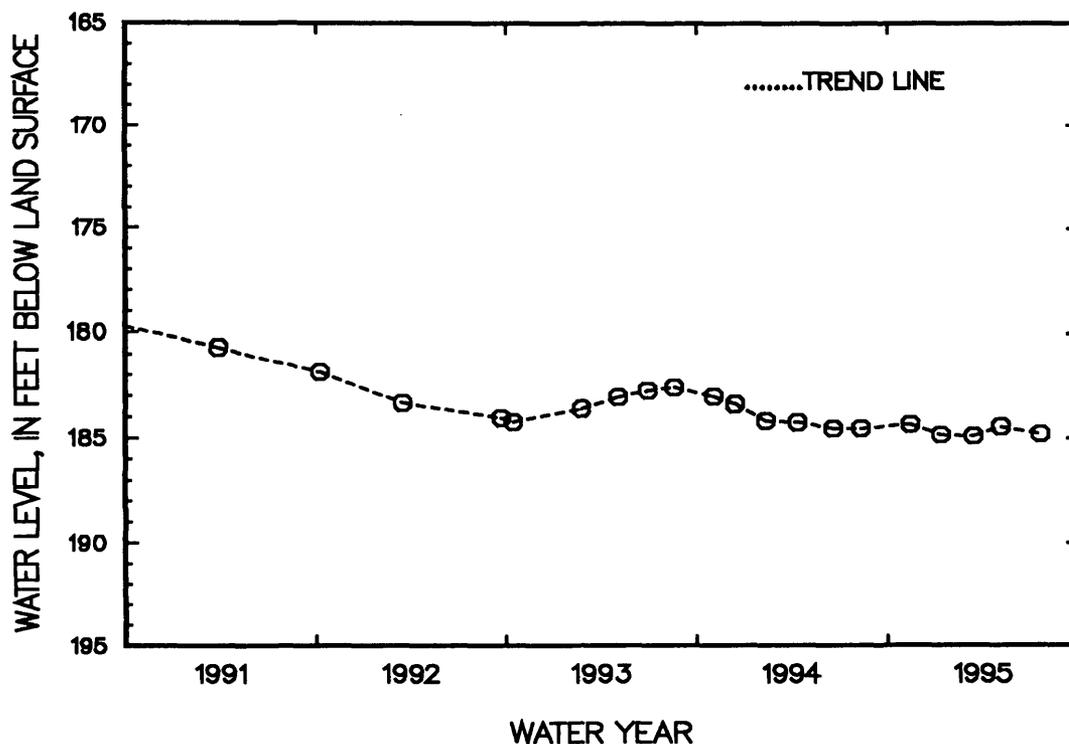
PERIOD OF RECORD.--August 1977 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 154.00 ft below land-surface datum, Aug. 9, 1977; lowest measured, 184.88 ft below land-surface datum, Mar. 14, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	184.30	JAN 11	184.82	MAR 14	184.88	MAY 05	184.42	JUL 19	184.78

WATER YEAR 1995 HIGHEST 184.30 NOV 14, 1994 LOWEST 184.88 MAR 14, 1995



CITY OF SUFFOLK

363345076470202. Local number, 56A 12 SOW 088B.

LOCATION.--Lat 36°33'45", long 76°47'02", Hydrologic Unit 03010203, 0.1 mi north of intersection of State Highways 668 and 669, 1.9 mi west of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 580 ft, screened 570 to 580 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 7, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 8, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.3 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 7, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

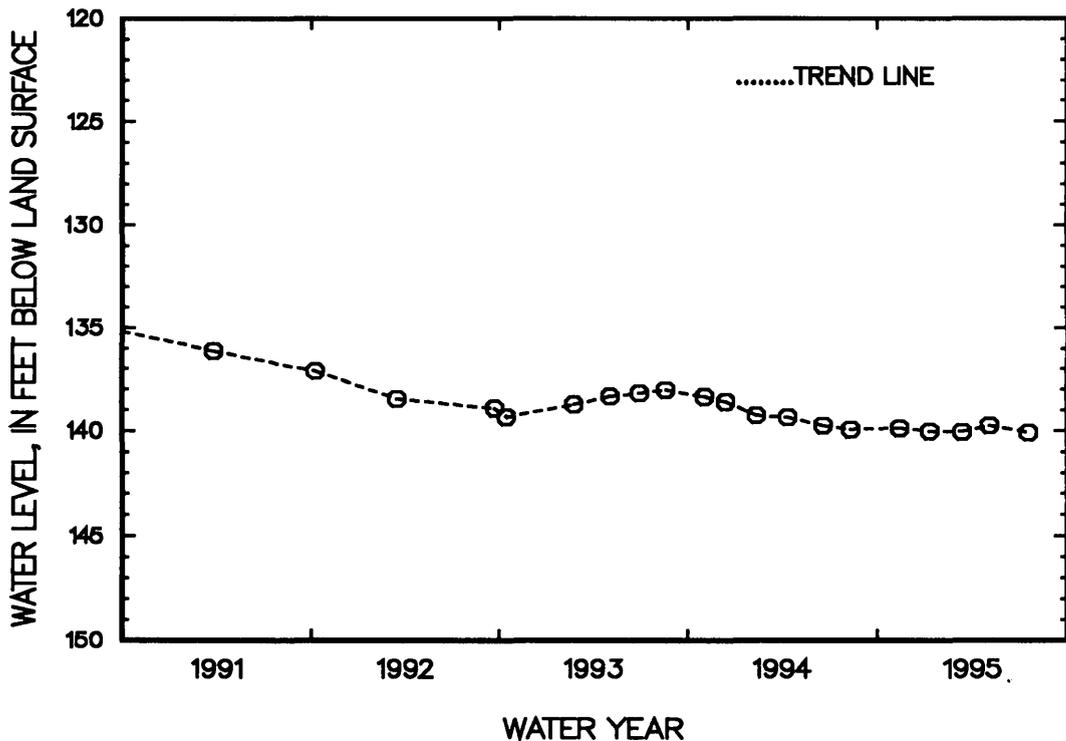
PERIOD OF RECORD.--June 1977 to November 1982, June 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.00 ft below land-surface datum, June 30, 1977; lowest measured, 140.10 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	139.87	JAN 11	140.03	MAR 14	140.05	MAY 05	139.74	JUL 19	140.10

WATER YEAR 1995 HIGHEST 139.74 MAY 05, 1995 LOWEST 140.10 JUL 19, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

363625076522602. Local number, 56A 13 SOW 076B

LOCATION.--Lat 36°36'25", long 76°52'26", Hydrologic Unit 03010203, 700 ft west of State Highway 615, 0.5 mi southwest of Olive Branch Church, and 8.1 mi south of Holland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 807 ft, screened 797 to 802 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Jan. 12, 1988; 0.8 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by local pumpage and regional drawdown.

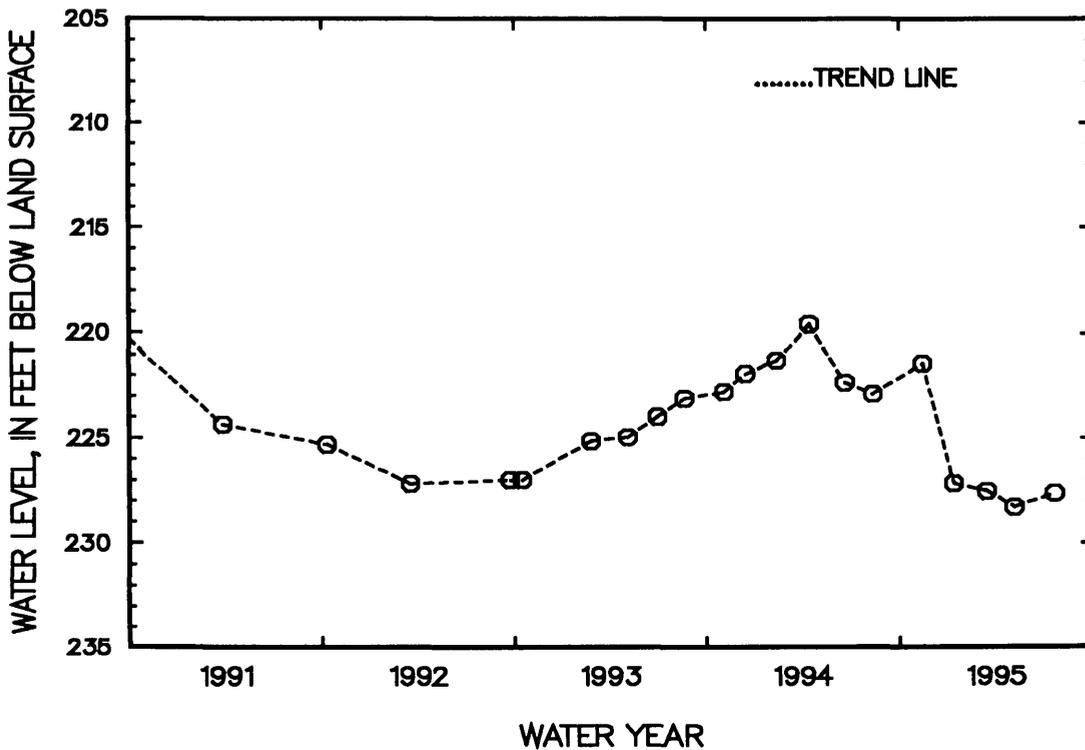
PERIOD OF RECORD.--May 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 204.34 ft below land-surface datum, Oct. 26, 1982; lowest measured, 228.29 ft below land-surface datum, May 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	221.46	JAN 11	227.17	MAR 14	227.53	MAY 05	228.29	JUL 19	227.65

WATER YEAR 1995 HIGHEST 221.46 NOV 14, 1994 LOWEST 228.29 MAY 05, 1995



CITY OF SUFFOLK

363625076522603. Local number, 56A 14 SOW 076C.

LOCATION.--Lat 36°36'25", long 76°52'26", Hydrologic Unit 03010203, 700 ft west of State Highway 615, 0.5 mi southwest of Olive Branch Church, and 8.1 mi south of Holland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 735 ft, screened 730 to 735 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 75 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.2 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

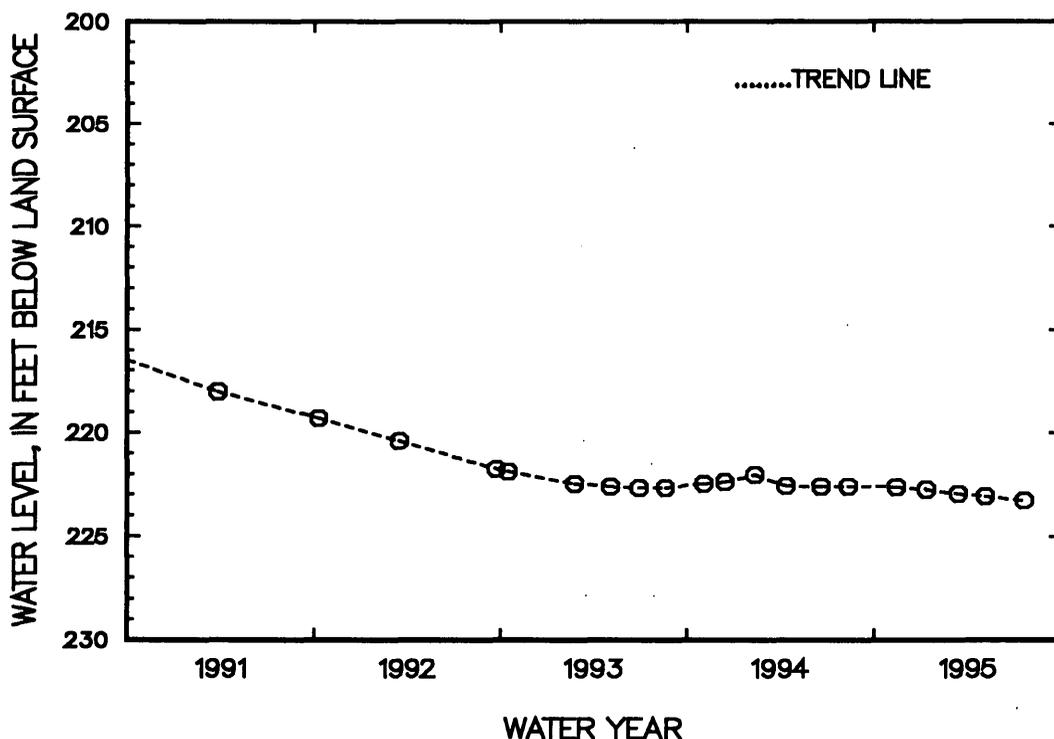
PERIOD OF RECORD.--March 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 205.62 ft below land-surface datum, Mar. 7, 1979; lowest measured, 223.28 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	222.63	JAN 11	222.75	MAR 14	222.96	MAY 05	223.07	JUL 19	223.28

WATER YEAR 1995 HIGHEST 222.63 NOV 14, 1994 LOWEST 223.28 JUL 19, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

364013076434601. Local number, 57B 1.

LOCATION.--Lat 36°40'13", long 76°43'46", Hydrologic Unit 03010202, at the Virginia Swine Evaluation Station, 0.2 mi east of State Highway 610, and 2.3 mi southwest of Lummis. Owner: Virginia Cooperative Extension Service.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 496 ft, screened 472 to 496 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Dec. 1, 1988, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 65 ft above sea level, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

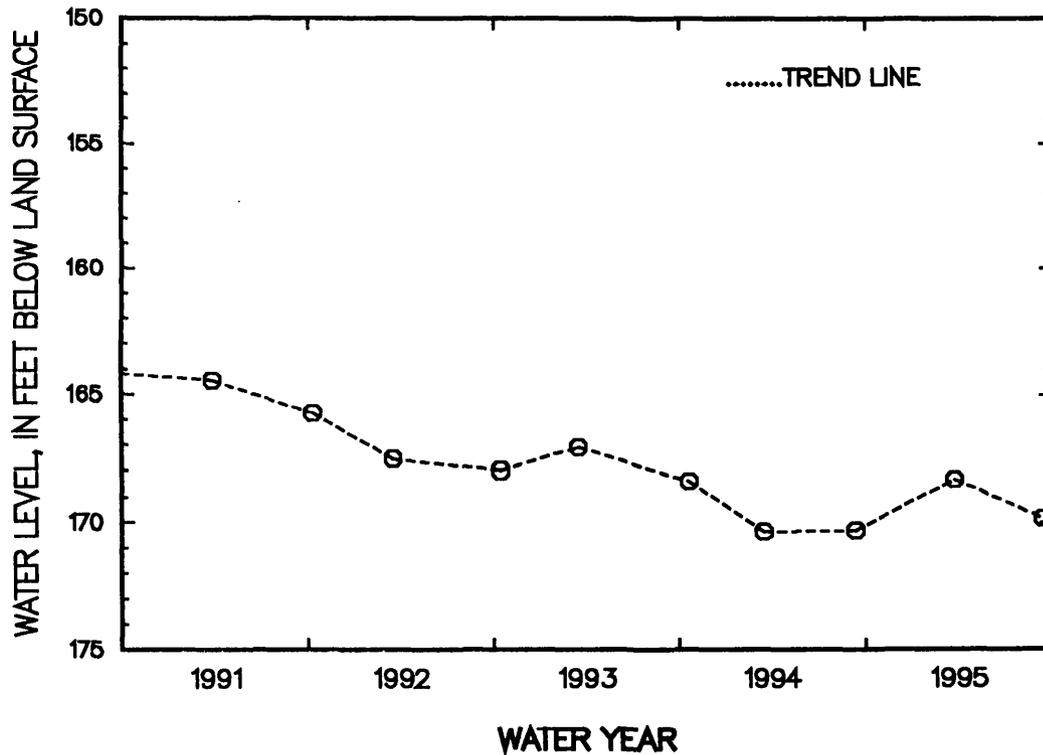
PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to September 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127.09 ft below land-surface datum, Aug. 26, 1970; lowest measured, 170.35 ft below land-surface datum, Mar. 16, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24	168.28	SEP 12	169.82

WATER YEAR 1995 HIGHEST 168.28 MAR 24, 1995 LOWEST 169.82 SEP 12, 1995



CITY OF SUFFOLK

363834076382301. Local number, 57B 8.

LOCATION.--Lat 36°38'27", long 76°38'05", Hydrologic Unit 03010205, 0.3 mi southwest of State Highway 664, 0.8 mi southeast of U.S. Highway 13, and 1.1 mi south of Nurneysville. Owner: Soren F. Andresen.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled flowing water well, diameter 2 in., depth 65 ft, screened 50 to 65 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Dec. 1, 1988, to June 1, 1990, quarterly measurement with a manometer. Prior to Dec. 1, 1988, bimonthly measurement with a manometer.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: At land-surface datum.

REMARKS.--Capped flowing well; readings are above land-surface datum. Occasional small withdrawals that supply nearby cabin can effect water levels.

PERIOD OF RECORD.--March 1975, November 1977 to current year. Unpublished records available March 1975 in files of the Geological Survey.

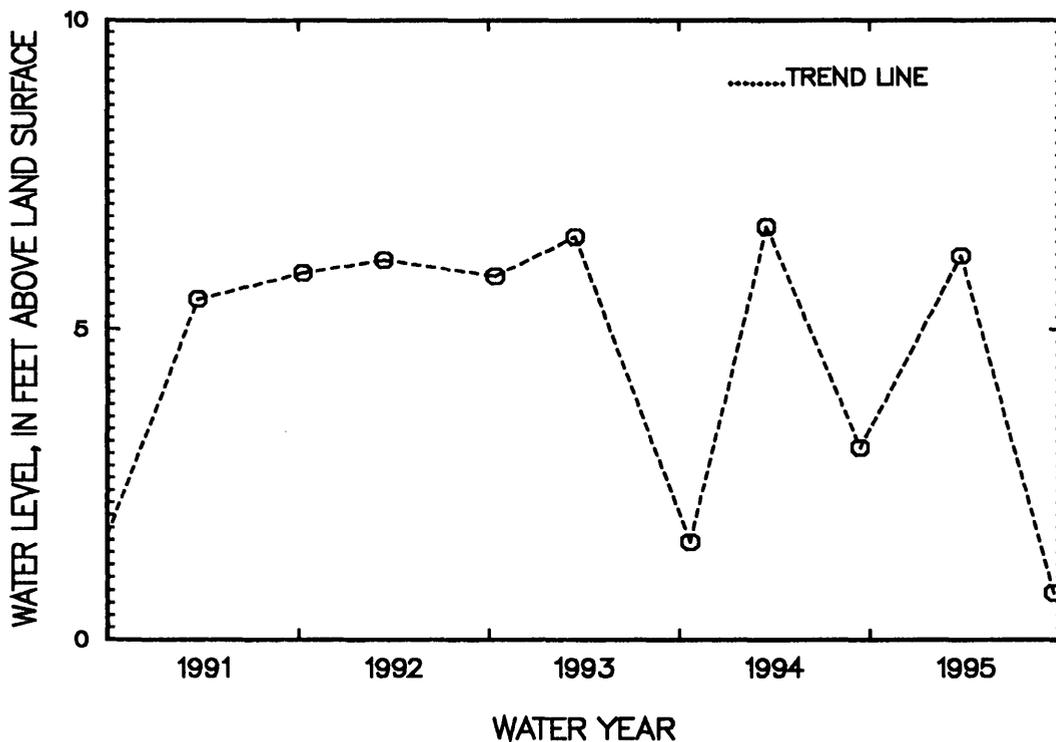
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.64 ft above land-surface datum, Mar. 18, 1994; lowest measured, at land-surface datum, Sept. 26, 1980.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	6.18	SEP 13	0.75

WATER YEAR 1995 HIGHEST 6.18 MAR 23, 1995 LOWEST 0.75 SEP 13, 1995

NOTE.--Flowing well; readings are above land-surface datum.



GROUND-WATER LEVELS

CITY OF SUFFOLK

364703076383701. Local number, 57C 21 SOW 099A.

LOCATION.--Lat 36°47'03", long 76°38'37", Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 248 ft, screened 238 to 248 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 72 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Jan. 12, 1988; 1.1 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

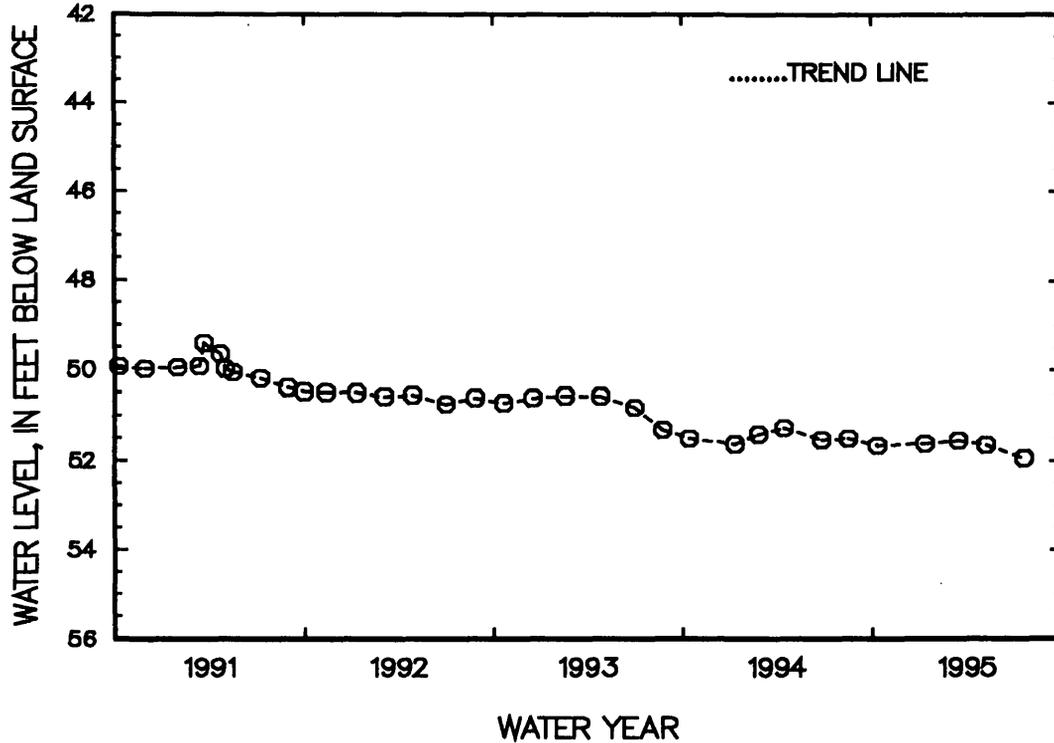
PERIOD OF RECORD.--September 1983 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.32 ft below land-surface datum, Apr. 19, 1984; lowest measured, 51.94 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	51.65	JAN 11	51.61	MAR 16	51.54	MAY 08	51.64	JUL 19	51.94

WATER YEAR 1995 HIGHEST 51.54 MAR 16, 1995 LOWEST 51.94 JUL 19, 1995



CITY OF SUFFOLK

364703076383702. Local number, 57C 22 SOW 099B.

LOCATION.--Lat 36°47'03", long 76°38'37", Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 694 ft, screened 684 to 694 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 5, 1981, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 72 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.0 ft above land-surface datum prior to July 14, 1987; 1.7 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to August 1985 in files of the Virginia Department of Environmental Quality - Water Division.

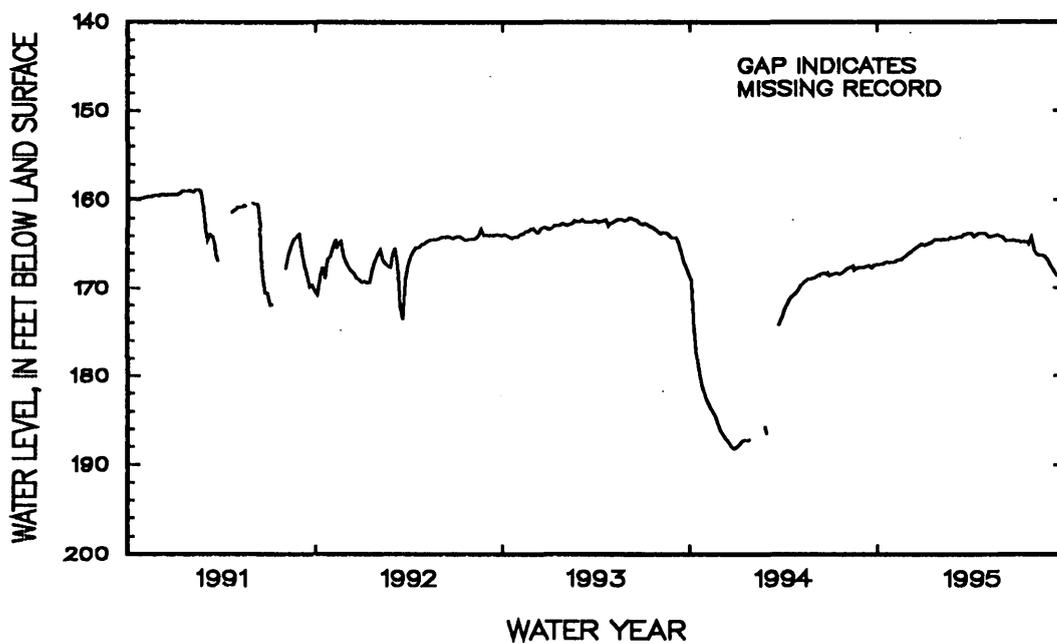
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 128.24 ft below land-surface datum, Feb. 18, 1980; lowest recorded, 188.19 ft below land-surface datum, Dec. 27, 28, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.34	167.00	165.90	165.03	164.40	164.17	164.10	164.16	164.63	164.79	166.21	167.93
10	167.28	166.82	165.62	164.85	164.43	164.18	163.90	164.09	164.57	164.69	166.28	168.48
15	167.13	166.83	165.41	164.78	164.43	164.03	163.70	163.97	164.62	164.74	166.28	168.74
20	167.02	166.57	165.20	164.44	164.20	163.87	163.68	163.92	164.53	164.98	166.43	168.80
25	167.12	166.37	164.96	164.43	164.32	163.71	163.70	164.08	164.65	164.19	166.82	168.80
EOM	167.11	166.10	165.10	164.50	164.33	163.70	163.90	164.19	164.57	165.79	167.48	168.98

WATER YEAR 1995 HIGHEST INSTANTANEOUS 163.65 APR 25, 1995 LOWEST INSTANTANEOUS 168.98 SEP 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

364703076383703. Local number, 57C 23 SOW 099C.

LOCATION.--Lat 36°47'03", long 76°38'37", Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 478 ft, screened 468 to 478 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1988, to July 19, 1995, bimonthly measurement with chalked tape. Feb. 15, 1986, to Sept. 30, 1988, continuous strip-chart recorder. Prior to Feb. 15, 1986, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 72 ft above sea level, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

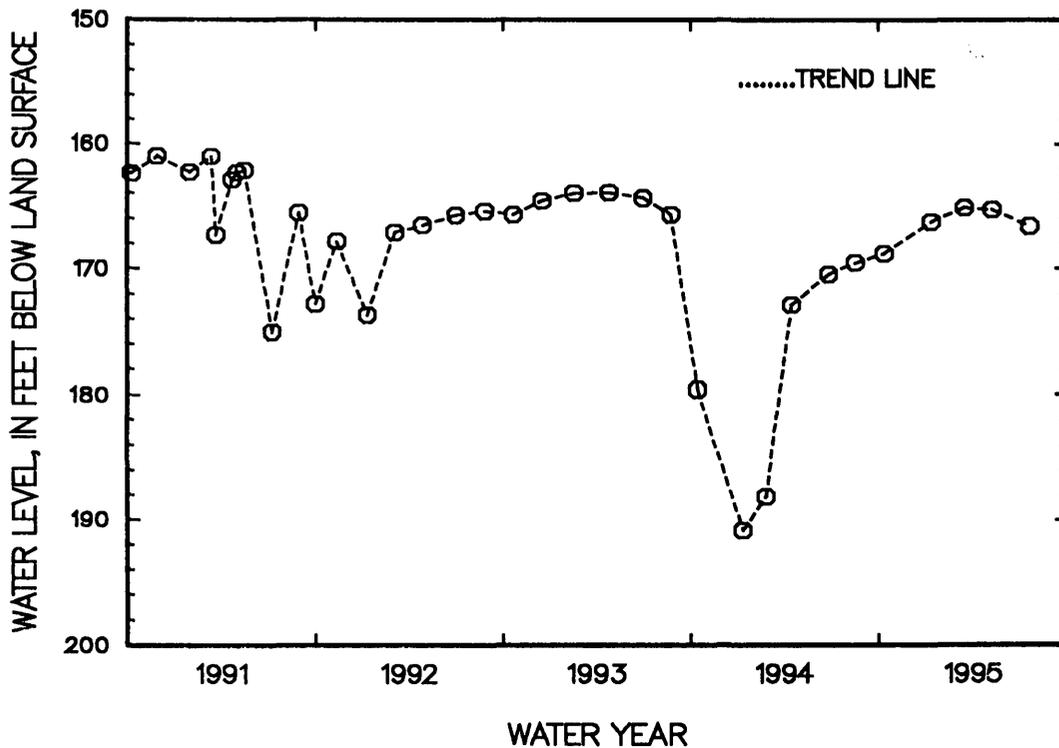
PERIOD OF RECORD.--February 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 147.67 ft below land-surface datum, Nov. 5, 1984; lowest recorded, 190.83 ft below land-surface datum, Jan. 11, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	168.79	JAN 11	166.26	MAR 16	165.13	MAY 08	165.29	JUL 19	166.61

WATER YEAR 1995 HIGHEST 165.13 MAR 16, 1995 LOWEST 168.79 OCT 12, 1994



GROUND-WATER LEVELS

CITY OF SUFFOLK

363303076330201. Local number, 58A 75 SOW 170.

LOCATION.--Lat 36°33'03", long 76°33'02", Hydrologic Unit 03010205, 100 ft north of North Carolina State line, 0.4 mi east of Desert Road, and 5.0 mi southeast of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 535 ft, screened 525 to 535 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 15, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 14, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 15, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 40 ft above mean sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 14, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

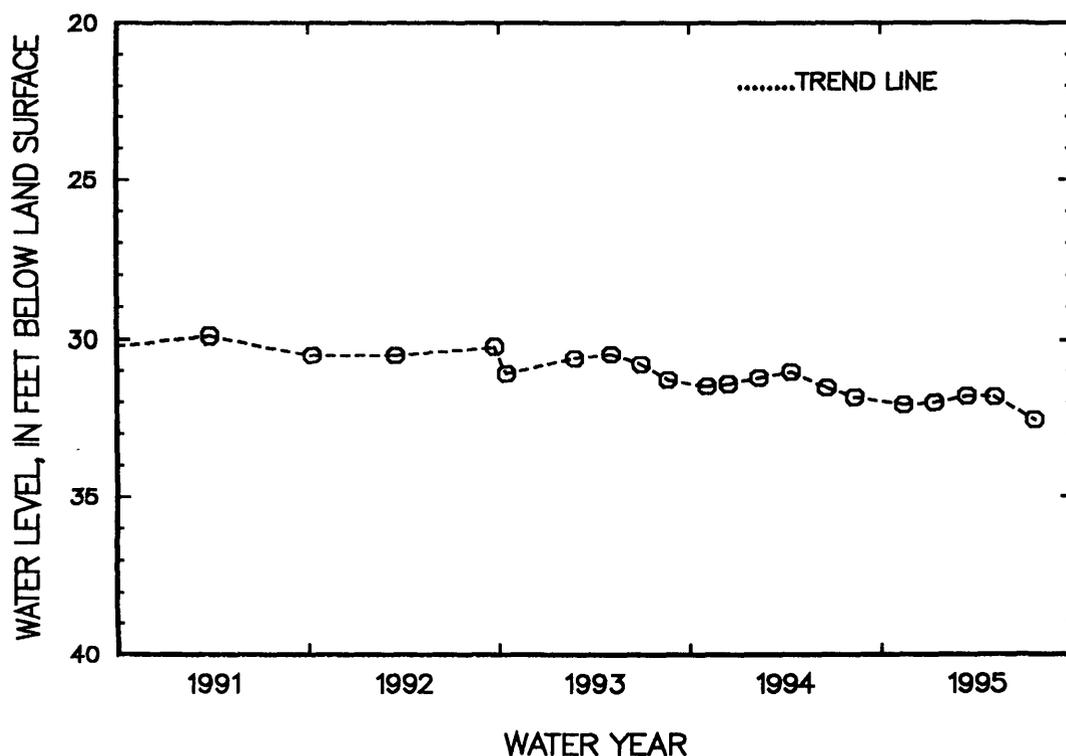
PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.52 ft below land-surface datum, July 11, 1985; lowest measured, 32.56 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 14	32.08	JAN 11	32.02	MAR 14	31.80	MAY 05	31.83	JUL 19	32.56

WATER YEAR 1995 HIGHEST 31.80 MAR 14, 1995 LOWEST 32.56 JUL 19, 1995



CITY OF SUFFOLK

363655076332002. Local number, 58A 77 SOW 180A.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,158 ft, diameter 3 in. from 1,136 to 1,209 ft, depth 1,209 ft, screened 1,199 to 1,209 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 34.02 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown. Low-water level in August 1993 is the result of the well being pumped for water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

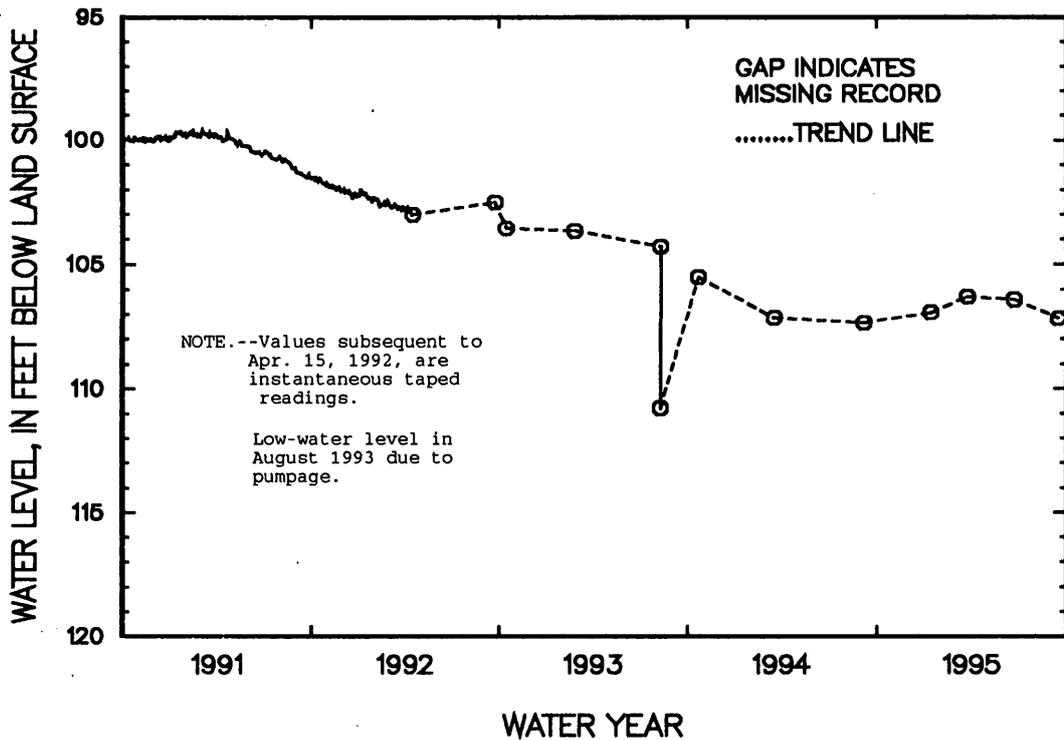
REVISED RECORDS.--WDR VA-89-1: 1987.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 96.83 ft below land-surface datum, Sept. 30, 1987; lowest measured, 107.35 ft below land-surface datum, Sept. 7, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	106.94	MAR 24	106.31	JUN 21	106.42	SEP 13	107.16
WATER YEAR 1995 HIGHEST 106.31 MAR 24, 1995		LOWEST 107.16		SEP 13, 1995			

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

363655076332003. Local number, 58A 78 SOW 180B.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 811 ft, diameter 2 in. from 766 to 880 ft, depth 880 ft, screened 850 to 860 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 34.02 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown and occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

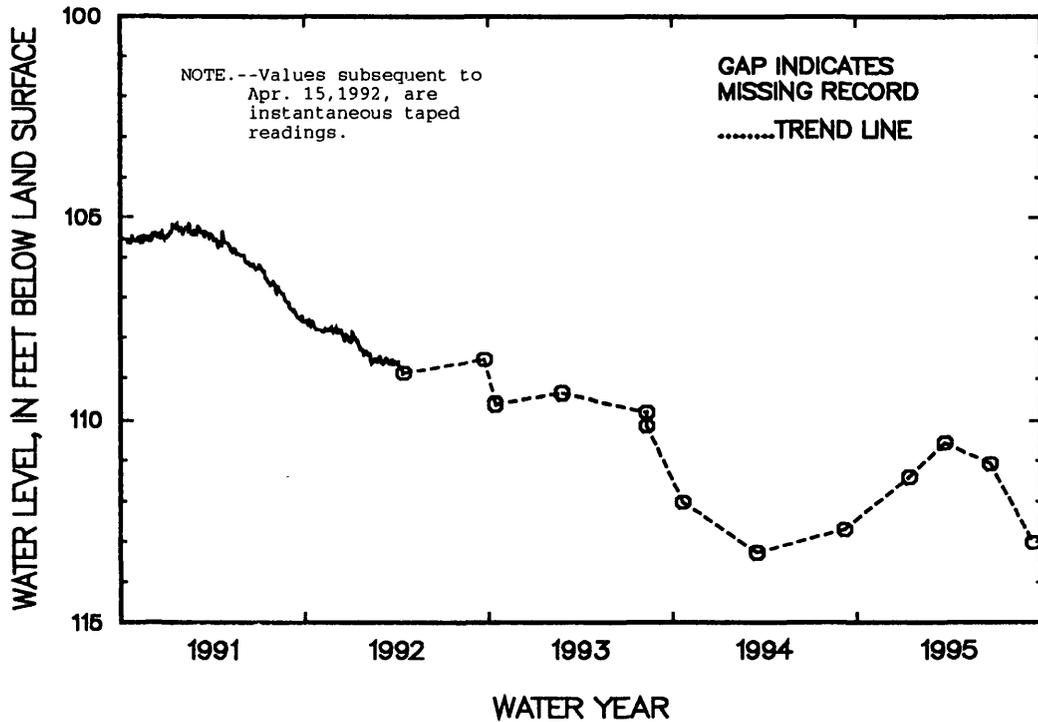
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 102.14 ft below land-surface datum, June 5, 27, 1987; lowest measured, 113.27 ft below land-surface datum, Mar. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 13	111.39	MAR 24	110.56	JUN 21	111.07	SEP 13	113.02

WATER YEAR 1995 HIGHEST 110.56 MAR 24, 1995 LOWEST 113.02 SEP 13, 1995

DAILY LOW-WATER LEVELS



CITY OF SUFFOLK

363655076332004. Local number, 58A 79 SOW 180C.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 670 ft, diameter 2 in. from 657 to 710 ft, depth 710 ft, screened 700 to 710 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 33.97 ft above sea level. Measuring point: Top of casing, 2.4 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown and occasional pumpage from water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

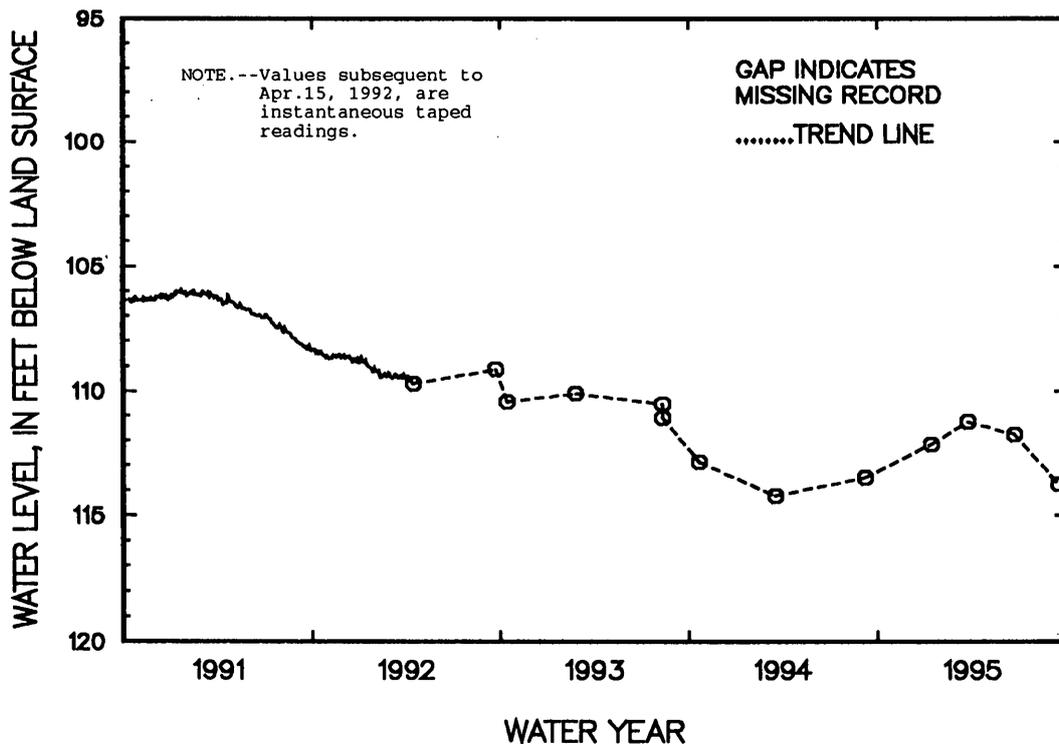
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 102.72 ft below land-surface datum, May 11, 1987; lowest measured, 114.23 ft below land-surface datum, Mar. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 13	112.16	MAR 24	111.25	JUN 21	111.77	SEP 13	113.77

WATER YEAR 1995 HIGHEST 111.25 MAR 24, 1995 LOWEST 113.77 SEP 13, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

363655076332005. Local number, 58A 80 SOW 180D.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 397 ft, diameter 2 in. from 388 to 440 ft, depth 440 ft, screened 430 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 27, 1991, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 34.26 ft above sea level. Measuring point: Top of casing, 2.3 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown. Low-water level in August 1993 is the result of the well being pumped for water-quality sampling.

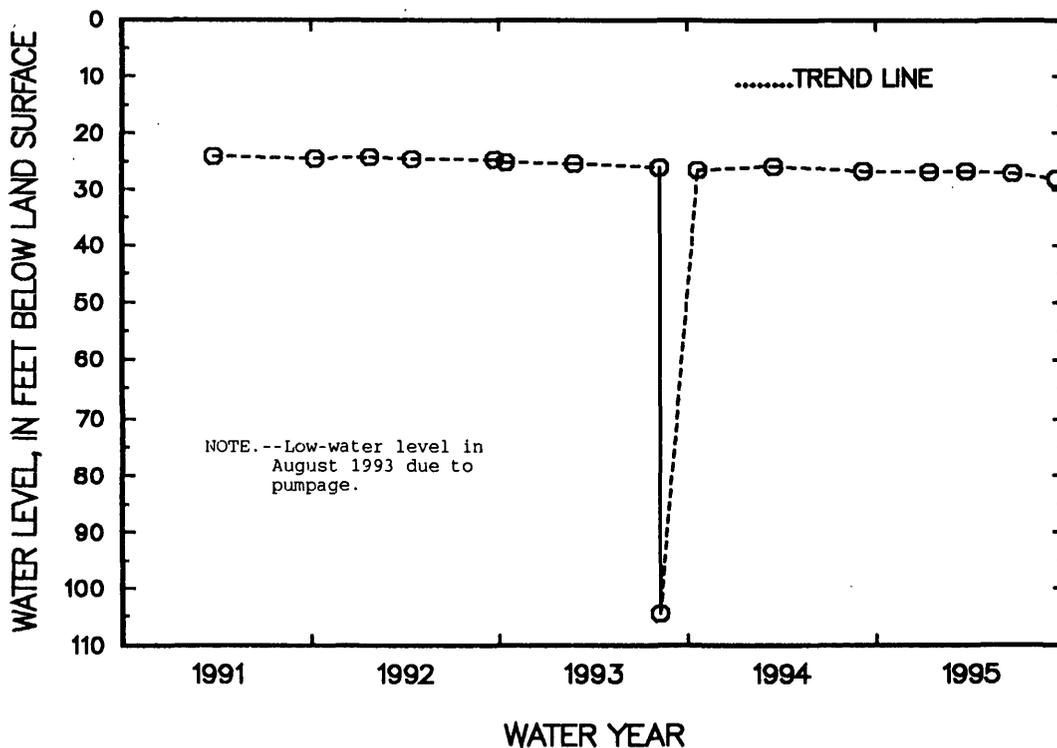
PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.55 ft below land-surface datum, June 17, 1987; lowest measured, 28.09 ft below land-surface datum, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 13	26.85	MAR 24	26.72	JUN 21	27.13	SEP 13	28.09

WATER YEAR 1995 HIGHEST 26.72 MAR 24, 1995 LOWEST 28.09 SEP 13, 1995



CITY OF SUFFOLK

363655076332006. Local number, 58A 81 SOW 180E.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 309 ft, diameter 2 in. from 298 to 329 ft, depth 329 ft, screened 319 to 329 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 34.00 ft above sea level. Measuring point: Top of casing, 2.4 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown. Low-water level in August 1993 is the result of the well being pumped for water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

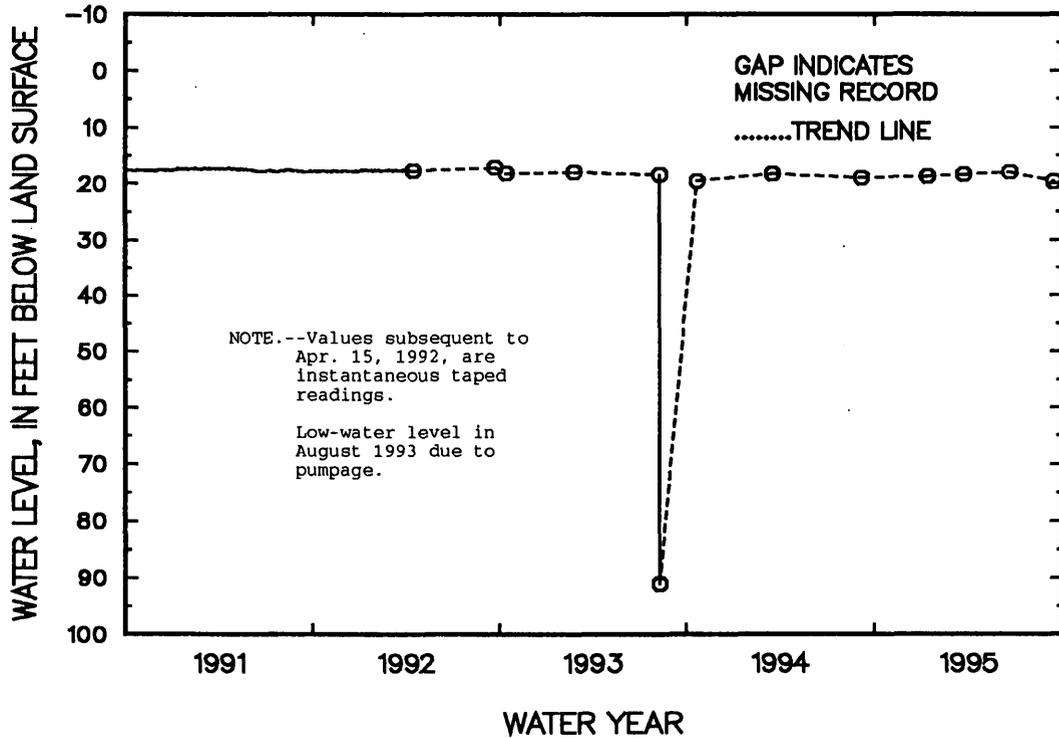
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.07 ft below land-surface datum, Feb. 23, 1987; lowest measured, 19.59 ft below land-surface datum, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 13	18.71	MAR 24	18.40	JUN 21	17.98	SEP 13	19.59

WATER YEAR 1995 HIGHEST 17.98 JUN 21, 1995 LOWEST 19.59 SEP 13, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

363655076332007. Local number, 58A 82 SOW 180F.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 274 ft, diameter 2 in. from 262 to 306 ft, depth 306 ft, screened 286 to 306 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 33.87 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown and occasional pumpage for water-quality samples.

PERIOD OF RECORD.--February 1987 to September 1995 (discontinued).

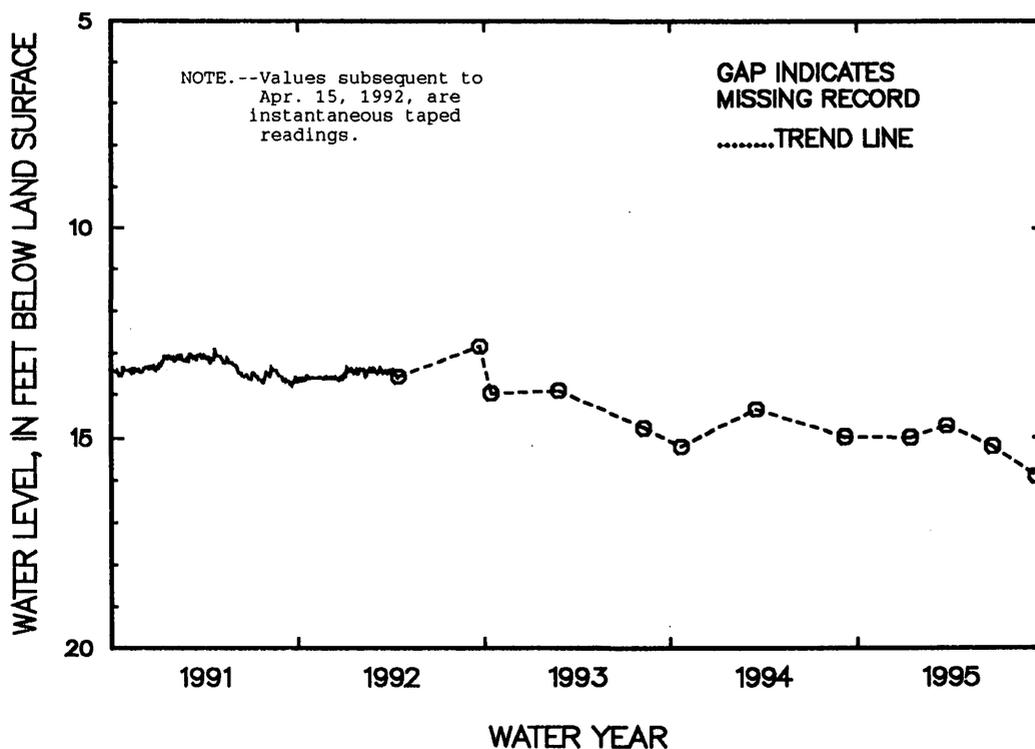
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.12 ft below land-surface datum, Apr. 13, 1987; lowest measured, 15.90 ft below land-surface datum, Sept. 13, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL						
JAN 13	15.00	MAR 24	14.73	JUN 21	15.19	SEP 13	15.90

WATER YEAR 1995 HIGHEST 14.73 MAR 24, 1995 LOWEST 15.90 SEP 13, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

363655076332009. Local number, 58A 84 SOW 180H.

LOCATION.--Lat 36°36'55", long 76°33'20", Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 33.87 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--February 1987 to current year.

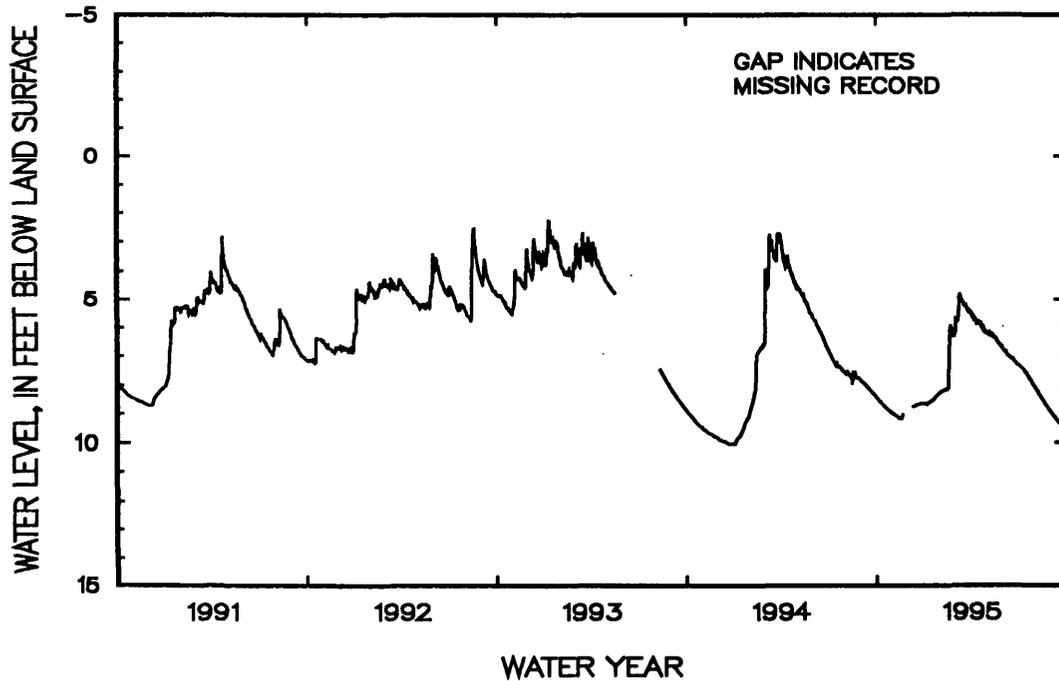
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.47 ft below land-surface datum, Mar. 24, 1989; lowest recorded, 10.06 ft below land-surface datum, Dec. 25-31, 1993, Jan. 1, 2, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.50	9.03	---	8.67	8.20	5.78	5.69	6.19	6.86	7.41	8.23	9.10
10	8.60	9.10	---	8.60	8.16	4.81	5.87	6.23	6.99	7.51	8.38	9.23
15	8.71	9.17	8.71	8.54	8.13	5.06	5.87	6.37	7.08	7.63	8.53	9.34
20	8.80	9.08	8.67	8.46	5.92	5.23	5.98	6.48	7.12	7.77	8.67	9.46
25	8.88	---	8.63	8.35	6.31	5.41	6.13	6.61	7.24	7.91	8.82	9.56
EOM	8.96	---	8.65	8.26	6.22	5.47	6.18	6.76	7.33	8.09	8.97	9.66

WATER YEAR 1995 HIGHEST INSTANTANEOUS 4.59 MAR 09, 1995 LOWEST INSTANTANEOUS 9.66 SEP 30, 1995

DAILY LOW-WATER LEVELS



CITY OF SUFFOLK

363928076332901. Local number, 58B 13.

LOCATION.--Lat 36°39'28", long 76°33'29", Hydrologic Unit 03010205, 700 ft east of State Highway 642, 4.0 mi south of Suffolk. Owner: Melvin Brinkley.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 22 in., depth 15 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. October 1993 to February 1994, occasional measurement with chalked tape by USGS personnel. Jan. 24, 1981, to Sept. 30, 1993, digital recorder--60-minute punch. Prior to Jan. 23, 1981, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 1.9 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1975 to current year.

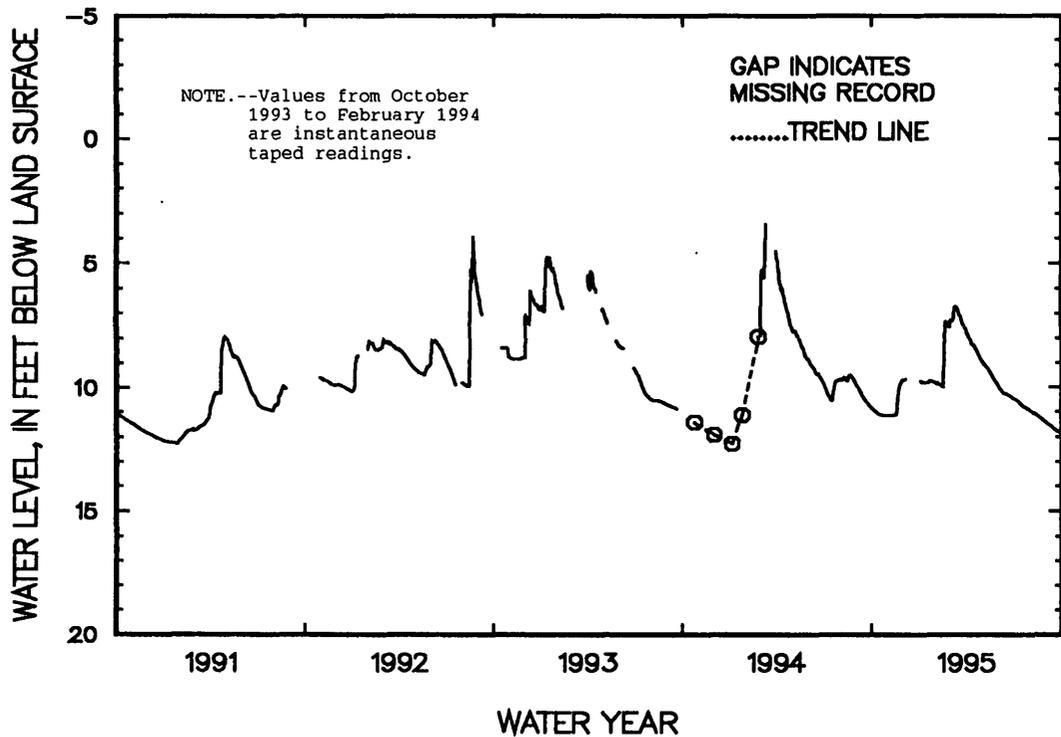
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.95 ft below land-surface datum, May 25, 1979; lowest recorded, 13.44 ft below land-surface datum, Jan. 23-26, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.93	11.14	9.68	9.80	9.83	7.29	7.94	9.05	10.09	10.52	11.01	11.50
10	11.01	11.13	---	9.79	9.90	6.78	8.21	9.19	10.21	10.60	11.07	11.58
15	11.07	11.13	---	9.80	9.97	6.80	8.31	9.34	10.27	10.70	11.15	11.68
20	11.12	10.64	---	9.79	7.54	7.07	8.50	9.50	10.32	10.80	11.23	11.75
25	11.13	9.90	---	9.75	7.47	7.38	8.71	9.71	10.39	10.85	11.32	11.83
EOM	11.14	9.71	---	9.81	7.55	7.65	8.92	9.91	10.46	10.93	11.42	11.91

WATER YEAR 1995 HIGHEST INSTANTANEOUS 6.72 MAR 11, 1995 LOWEST INSTANTANEOUS 11.91 SEP 30, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

364318076365501. Local number, 58B268 SOW 169A.

LOCATION.--Lat 36°43'18", long 76°36'55", Hydrologic Unit 02080208, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quarternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 12 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

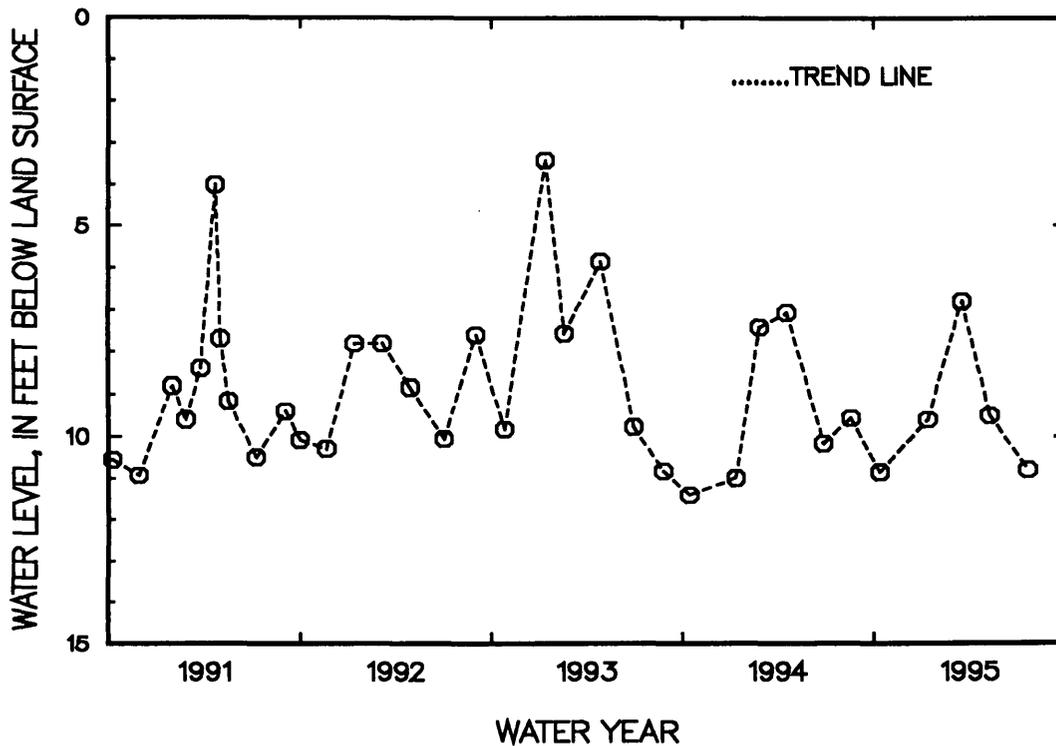
PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.42 ft below land-surface datum, Jan. 12, 1993; lowest measured, 11.40 ft below land-surface datum, Oct. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	10.84	JAN 11	9.59	MAR 16	6.82	MAY 08	9.49	JUL 19	10.79

WATER YEAR 1995 HIGHEST 6.82 MAR 16, 1995 LOWEST 10.84 OCT 12, 1994



CITY OF SUFFOLK

364318076365502. Local number, 58B269 SOW 169B.

LOCATION.--Lat 36°43'18", long 76°36'55", Hydrologic Unit 02080202, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 360 ft, screened 350 to 360 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

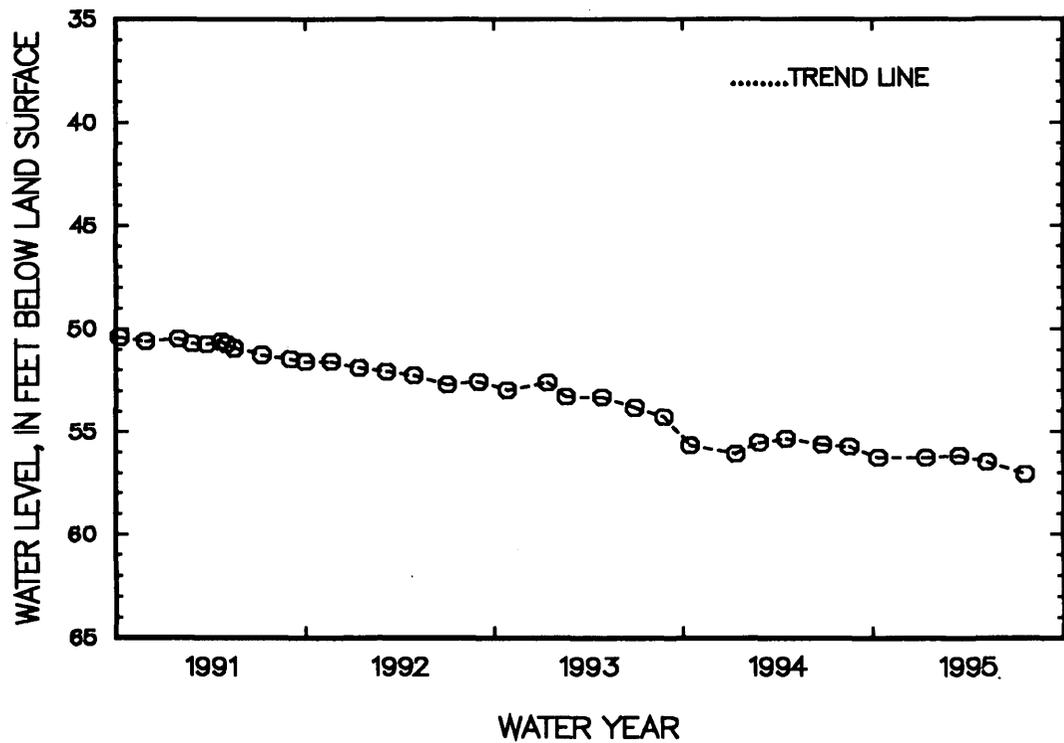
PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.06 ft below land-surface datum, July 8, 1985; lowest measured, 57.06 ft below land-surface datum, July 19, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	56.27	JAN 11	56.27	MAR 16	56.17	MAY 08	56.48	JUL 19	57.06

WATER YEAR 1995 HIGHEST 56.17 MAR 16, 1995 LOWEST 57.06 JUL 19, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

364318076365503. Local number, 58B270 SOW 169C.

LOCATION.--Lat 36°43'18", long 76°36'55", Hydrologic Unit 02080208, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 500 ft, screened 490 to 500 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

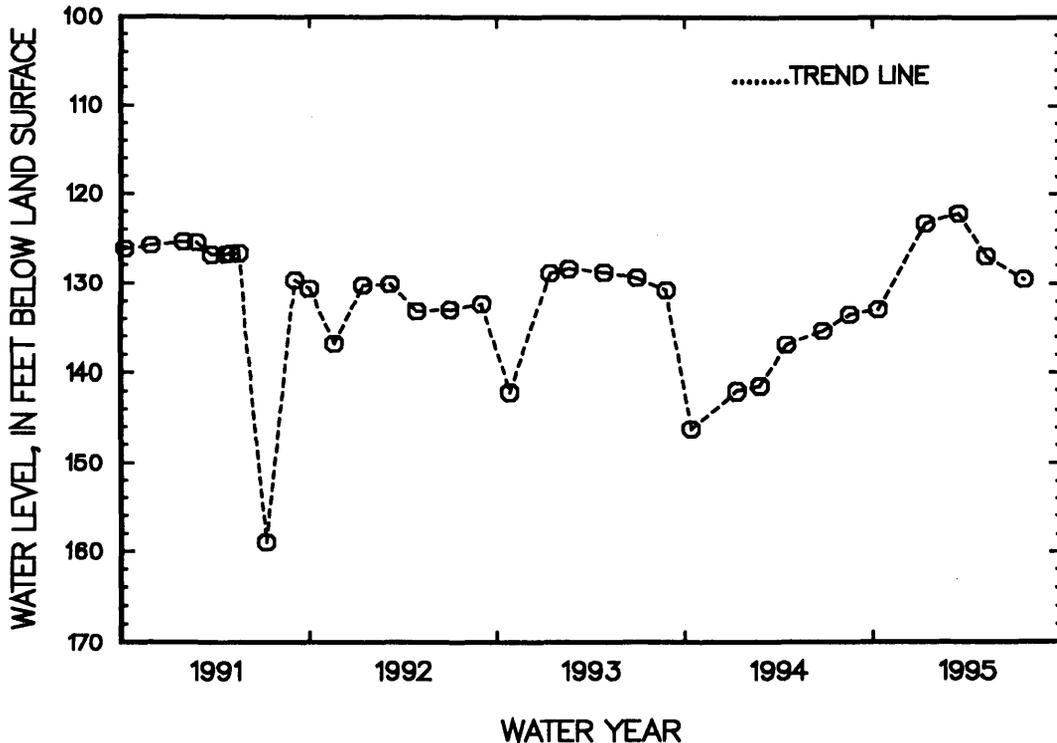
PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.59 ft below land-surface datum, Feb. 25, 1986; lowest measured, 159.00 ft below land-surface datum, July 9, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	132.92	JAN 11	123.27	MAR 16	122.17	MAY 08	126.94	JUL 19	129.55

WATER YEAR 1995 HIGHEST 122.17 MAR 16, 1995 LOWEST 132.92 OCT 12, 1994



CITY OF SUFFOLK

364317076363501. Local number, 58B271 SOW 169D.

LOCATION.--Lat 36°43'17", long 76°36'35", Hydrologic Unit 02080208, 200 ft south of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 710 ft, screened 501 to 506 ft, 632 to 637 ft, 700 to 710 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Nov. 5, 1986, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 29 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

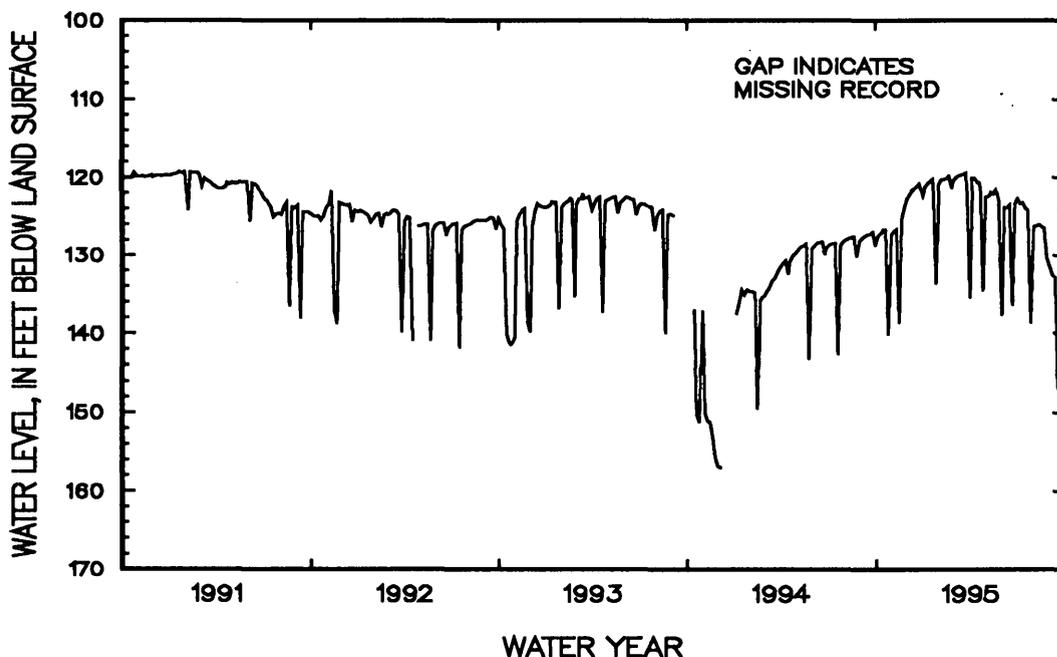
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.70 ft below land-surface datum, Feb. 25, 1986; lowest recorded, 156.96 ft below land-surface datum, Dec. 5, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	127.56	126.92	122.20	121.20	120.32	120.06	120.10	122.40	123.78	123.29	126.24	132.60
10	127.24	126.70	121.71	120.84	120.23	119.80	120.06	121.88	123.80	123.20	126.03	132.80
15	126.73	138.70	121.40	120.55	120.18	119.72	120.63	122.09	123.47	123.90	126.29	146.67
20	126.73	125.39	121.17	120.23	119.85	119.60	120.71	121.60	136.45	124.38	126.52	147.60
25	140.17	123.92	120.83	133.75	121.35	119.42	134.60	122.80	123.37	138.67	130.33	147.57
EOM	127.44	122.78	122.32	120.96	120.55	135.49	122.44	137.71	122.70	126.26	131.59	135.11

WATER YEAR 1995 HIGHEST INSTANTANEOUS 119.38 MAR 22-24, 1995 LOWEST INSTANTANEOUS 147.82 SEP 29, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

354319076365501. Local number, 58B272 SOW 169E.

LOCATION.--Lat 36°43'19", long 76°36'55", Hydrologic Unit 02080208, 400 ft south of Norfolk and Western Railroad near Lake Kilby, 0.6 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 733 ft, screened 498 to 508 ft, 550 to 555 ft, 702 to 712 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 41 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

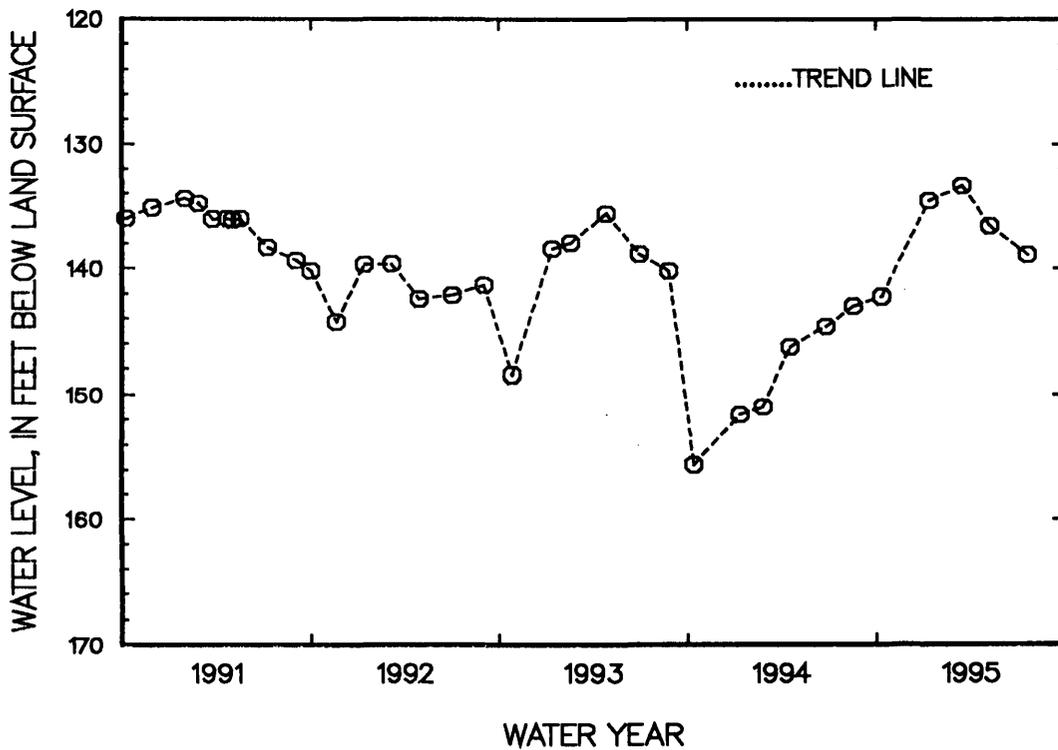
PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 111.54 ft below land-surface datum, Feb. 25, 1986; lowest measured, 155.58 ft below land-surface datum, Oct. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	142.27	JAN 11	134.56	MAR 16	133.33	MAY 08	136.59	JUL 19	138.90

WATER YEAR 1995 HIGHEST 133.33 MAR 16, 1995 LOWEST 142.27 OCT 12, 1994



CITY OF SUFFOLK

364348076363201. Local number, 58B273 SOW 169F.

LOCATION.--Lat 36°43'48", long 76°36'32", Hydrologic Unit 02080208, 100 ft south of U.S. Highway 58 near Lake Kilby, 0.2 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 661 ft, screened 541 to 546 ft, 567 to 572 ft, 635 to 640 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 2, 1992, to July 19, 1995, bimonthly measurement with chalked tape. Nov. 5, 1986, to Oct. 1, 1992, continuous strip-chart recorder. Prior to Nov. 5, 1986, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 26 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

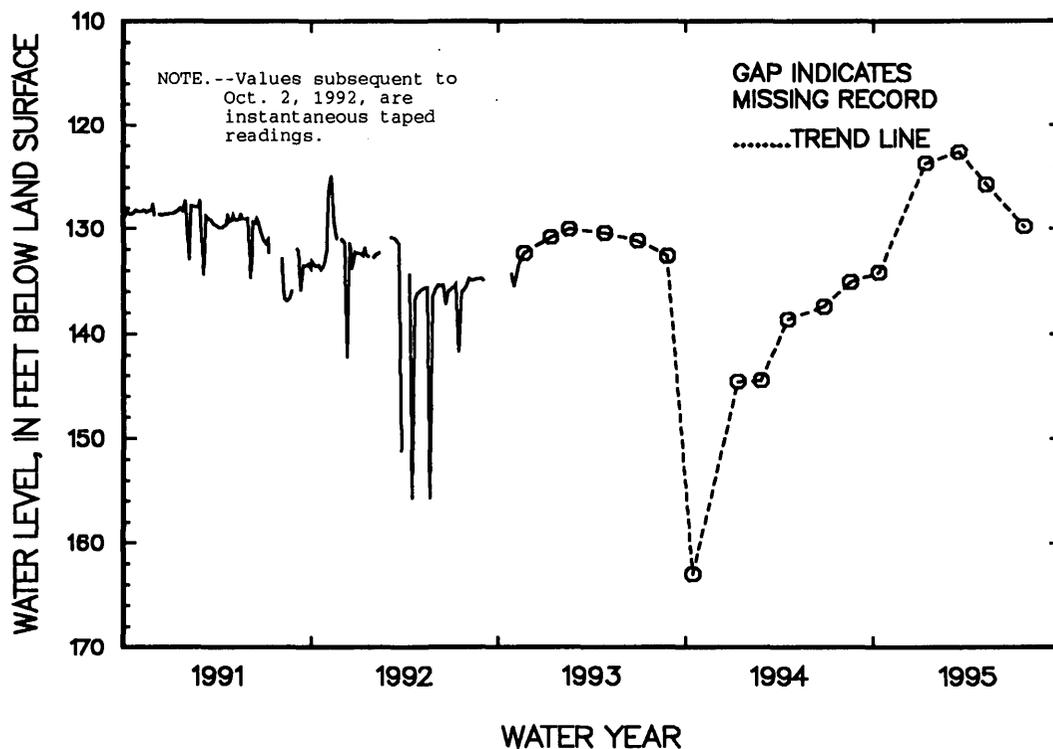
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 111.00 ft below land-surface datum, July 18, 1991; lowest recorded, 162.99 ft below land-surface datum, Oct. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	134.14	JAN 11	123.68	MAR 16	122.58	MAY 08	125.70	JUL 19	129.78

WATER YEAR 1995 HIGHEST 122.58 MAR 16, 1995 LOWEST 134.14 OCT 12, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

364512076343705. Local number, 58C 56 SOW 162D.

LOCATION.--Lat 36°45'12", long 76°34'37", Hydrologic Unit 02080208, 750 ft northeast of Virginia Department of Transportation fuel storage area, 2,000 ft east of U.S. Highway 460, and 0.8 mi southeast of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 567 ft, screened 557 to 567 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 3.35 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--February 1983 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 77.24 ft below land-surface datum, Oct. 1, 1984; lowest recorded, 115.30 ft below land-surface datum, Dec. 20, 1993.

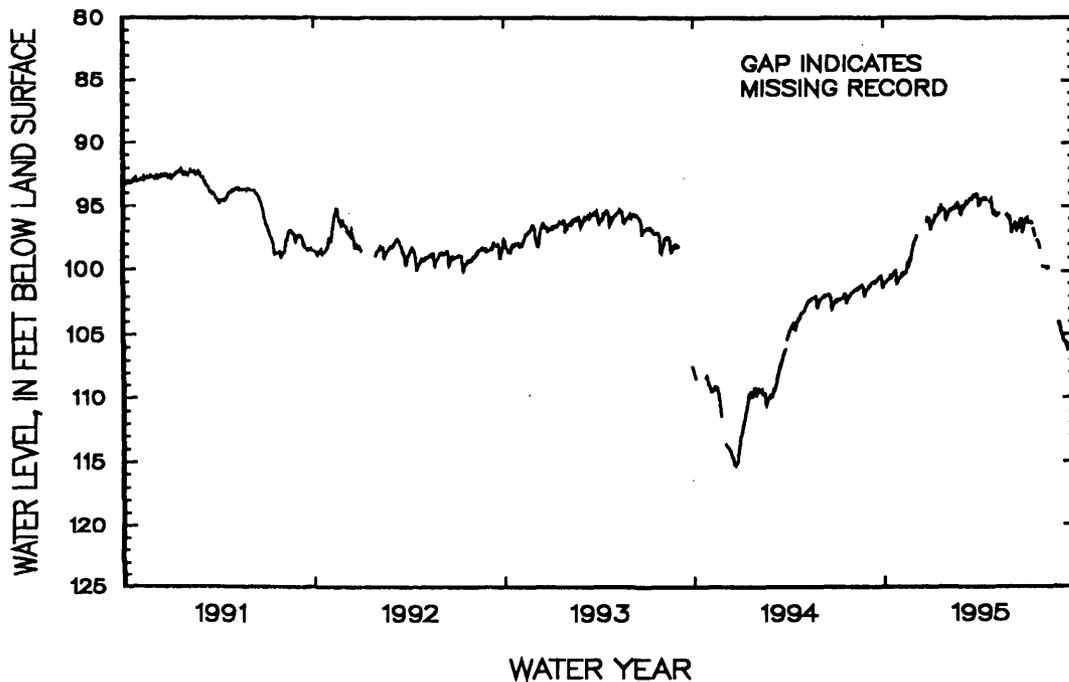
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	100.98	100.36	---	96.18	95.32	95.03	94.62	95.47	96.64	---	99.69	105.02
10	100.66	100.13	---	95.75	95.27	94.77	94.31	---	96.69	96.38	99.70	105.53
15	100.24	100.00	---	95.39	95.19	94.41	94.41	---	96.74	97.09	---	106.11
20	100.26	99.40	---	94.89	94.79	94.36	---	---	95.99	---	---	---
25	100.00	98.63	96.12	95.23	95.65	94.25	94.47	95.74	96.59	98.09	---	---
EOM	100.67	97.81	96.80	95.75	95.24	94.71	95.35	96.17	95.98	---	104.2	106.10

WATER YEAR 1995 HIGHEST INSTANTANEOUS 93.66 MAR 23, 1995

 LOWEST INSTANTANEOUS 106.11 SEP 15, 1995

DAILY LOW-WATER LEVELS



CITY OF SUFFOLK

365133076351201. Local number, 58C 57 SOW 141A.

LOCATION.--Lat 36°51'33", long 76°35'12", Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 122 ft, screened 112 to 122 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 52 ft above sea level, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Jan. 12, 1988; 1.0 ft Jan. 12, 1988, to Nov. 12, 1991; 2.4 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

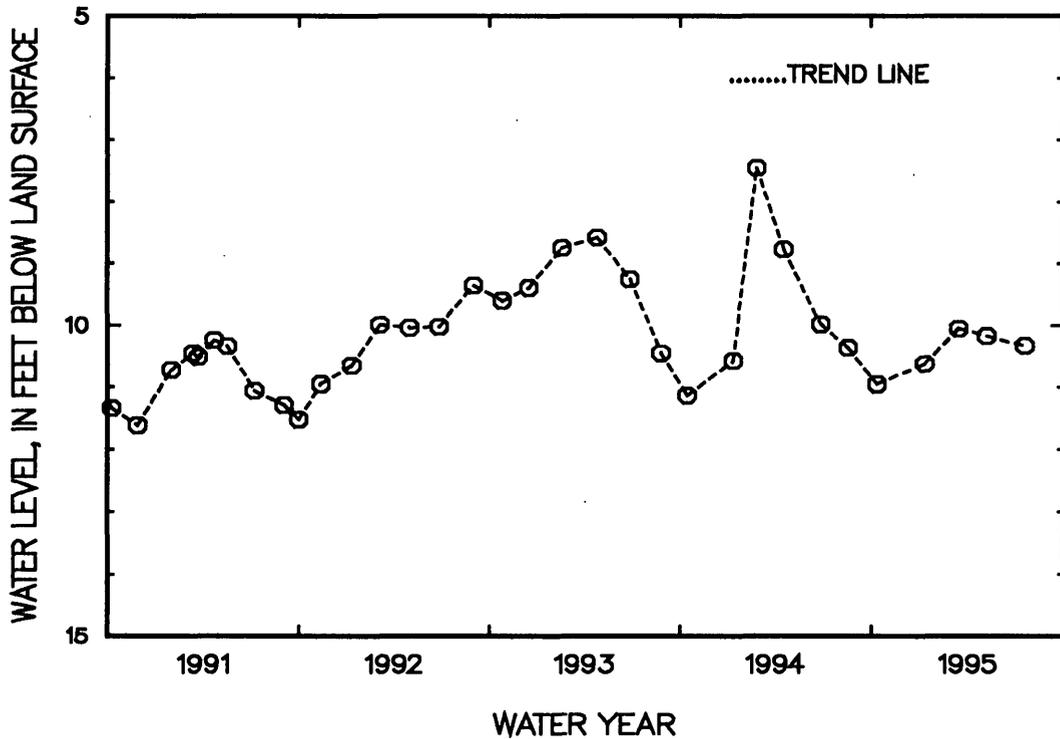
PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.45 ft below land-surface datum, Feb. 25, 1994; lowest measured, 11.65 ft below land-surface datum, Nov. 26, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	10.95	JAN 11	10.62	MAR 16	10.05	MAY 08	10.17	JUL 19	10.33

WATER YEAR 1995 HIGHEST 10.05 MAR 16, 1995 LOWEST 10.95 OCT 12, 1994



GROUND-WATER LEVELS

CITY OF SUFFOLK

365133076351202. Local number, 58C 58 SOW 141B.

LOCATION.--Lat 36°51'33", long 76°35'12", Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 605 ft, screened 595 to 605 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chaked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 52 ft above sea level, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Jan. 12, 1988; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

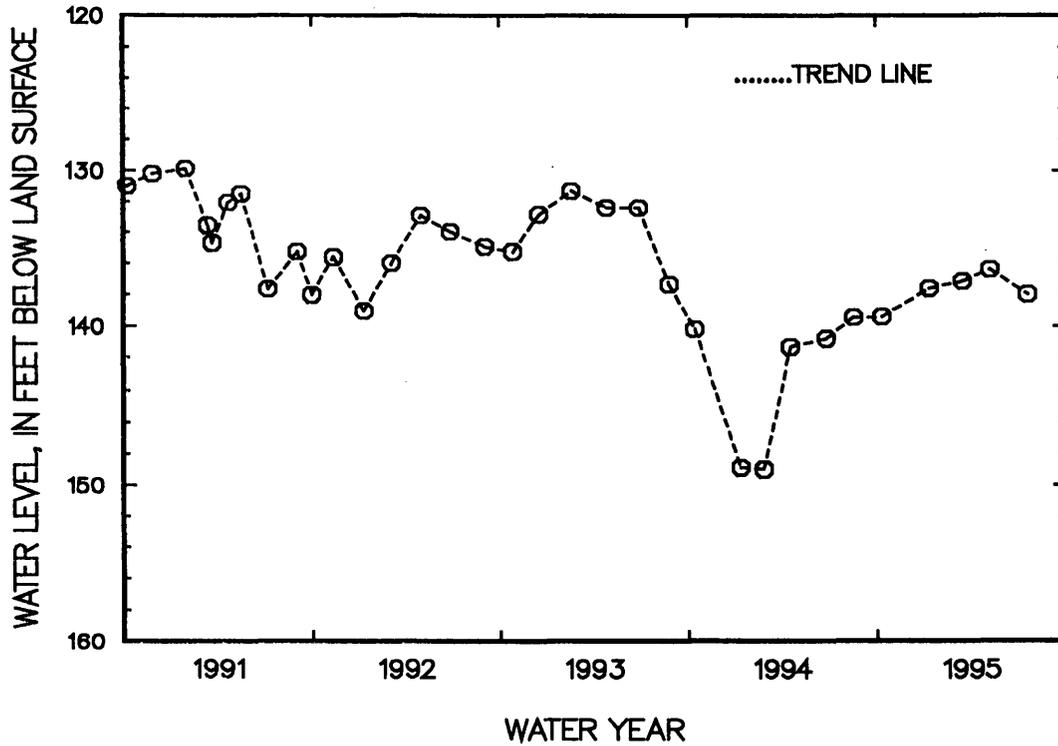
PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.60 ft below land-surface datum, Apr. 24, 1980; lowest measured, 148.99 ft below land-surface datum, Feb. 25, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	139.40	JAN 11	137.58	MAR 16	137.12	MAY 08	136.35	JUL 19	137.96

WATER YEAR 1995 HIGHEST 136.35 MAY 08, 1995 LOWEST 139.40 OCT 12, 1994



CITY OF SUFFOLK

365133076351203. Local number, 58C 59 SOW 141C.

LOCATION.--Lat 36°51'33", long 76°35'12", Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 447 ft, screened 437 to 447 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to May 5, 1981, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 52 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

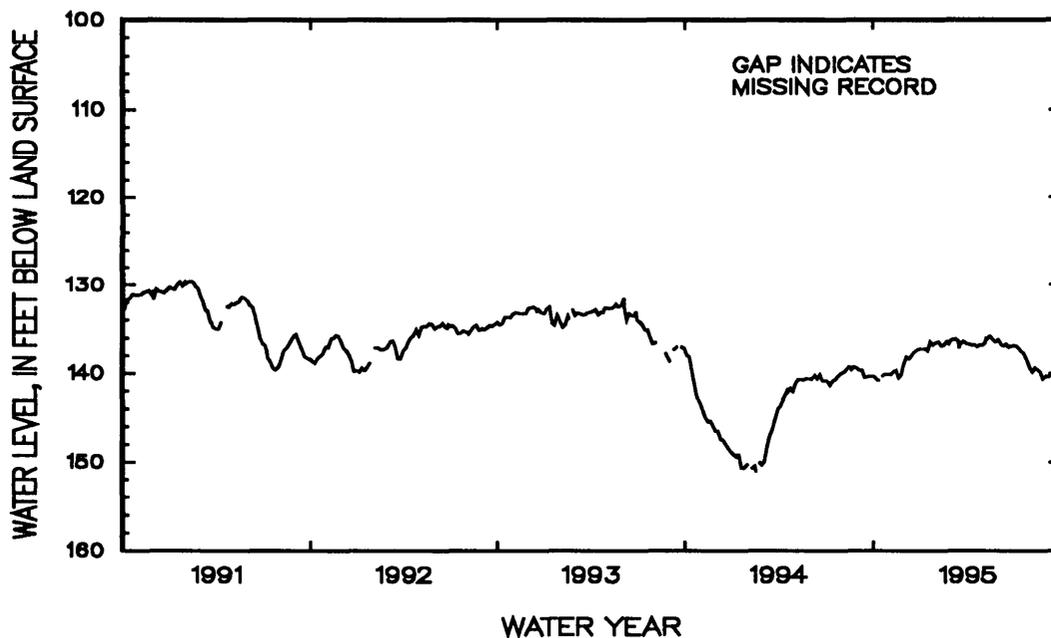
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.80 ft below land-surface datum, June 30, 1980; lowest recorded, 151.00 ft below land-surface datum, Feb. 17, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	140.41	140.14	138.19	137.27	136.42	136.14	136.69	136.58	136.67	136.90	139.88	140.45
10	140.75	139.83	138.35	137.18	136.88	136.10	136.78	136.03	136.88	137.21	139.39	140.09
15	---	139.71	138.03	137.46	136.77	136.33	136.73	135.80	136.67	137.58	139.64	140.58
20	140.28	140.51	137.60	136.43	136.40	136.55	136.96	136.15	137.04	137.91	139.86	140.96
25	140.10	140.15	137.38	136.75	136.67	136.35	136.73	136.42	136.88	138.50	140.65	140.28
EOM	140.09	139.00	137.20	136.52	136.28	136.64	136.81	136.20	136.84	139.40	140.30	140.53

WATER YEAR 1995 HIGHEST INSTANTANEOUS 135.52 MAY 15, 1995 LOWEST INSTANTANEOUS 141.55 NOV 23, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

CITY OF SUFFOLK

365133076351204. Local number, 58C 60 SOW 141D.

LOCATION.--Lat 36°51'33", long 76°35'12", Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 50 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Jan 12, 1988; 1.0 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

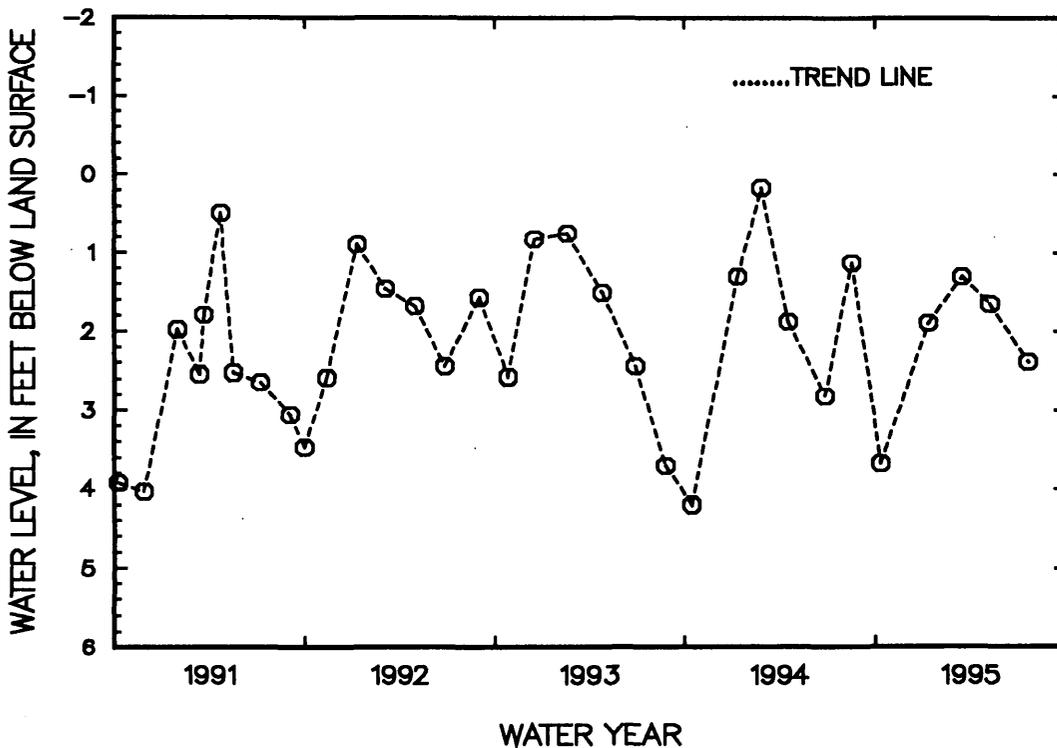
PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.17 ft below land-surface datum, Feb. 25, 1994; lowest measured, 4.20 ft below land-surface datum, Oct. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	3.67	JAN 11	1.89	MAR 16	1.30	MAY 08	1.65	JUL 19	2.39

WATER YEAR 1995 HIGHEST 1.30 MAR 16, 1995 LOWEST 3.67 OCT 12, 1994



CITY OF SUFFOLK

364731076355501. Local number, 58C 61 SOW 159A.

LOCATION.--Lat 36°47'31", long 76°35'55", Hydrologic Unit 02080208, 0.5 mi northwest of intersection of State Highways 622 and 634, 2.3 mi northwest of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 25 ft, screened 20 to 25 ft, sounded to 17.50 ft on July 8, 1985, redrilled to 25 ft on May 15, 1990.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 26, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum prior to June 25, 1990; 1.55 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Well reported dry several days in 1985-1990.

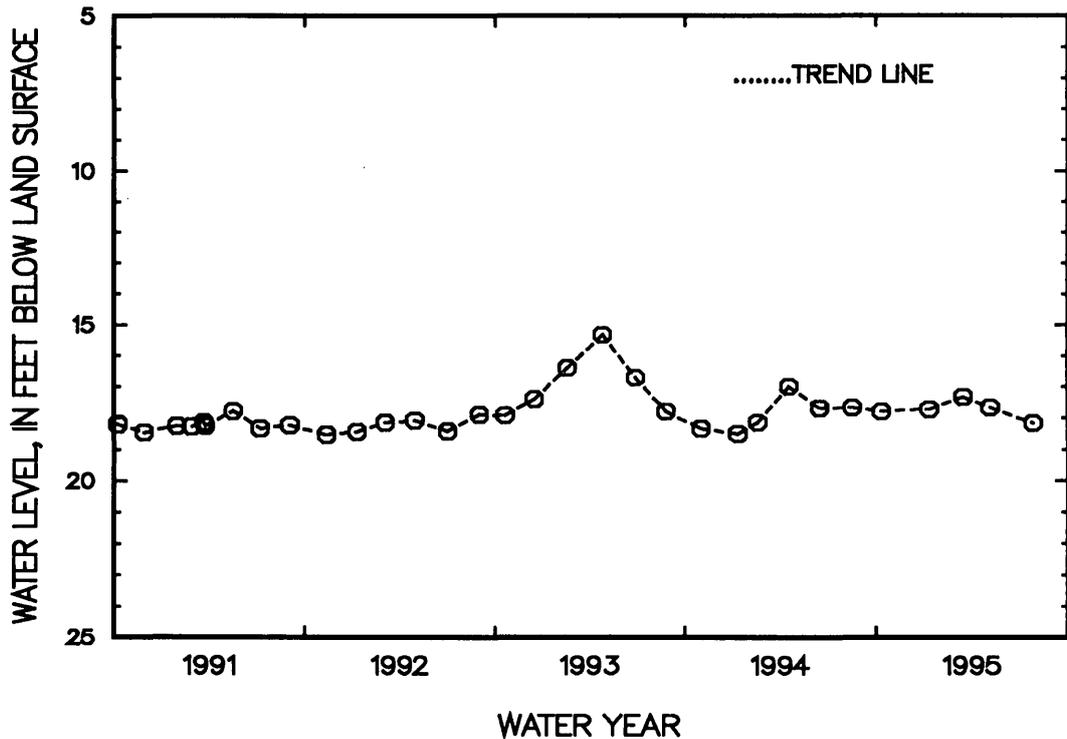
PERIOD OF RECORD.--June 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.95 ft below land-surface datum, Apr. 19, 1984; lowest measured, 18.53 ft below land-surface datum, Nov. 12, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	17.79	JAN 11	17.72	MAR 16	17.32	MAY 08	17.67	JUL 26	18.17

WATER YEAR 1995 HIGHEST 17.32 MAR 16, 1995 LOWEST 18.17 JUL 26, 1995



GROUND-WATER LEVELS

CITY OF SUFFOLK

364731076355502. Local number, 58C 62 SOW 159B.

LOCATION.--Lat 36°47'31", long 76°35'55", Hydrologic Unit 02080208, 0.5 mi northwest of intersection of State Highways 622 and 634, 2.3 mi northwest of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 575 ft, screened 555 to 575 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 26, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

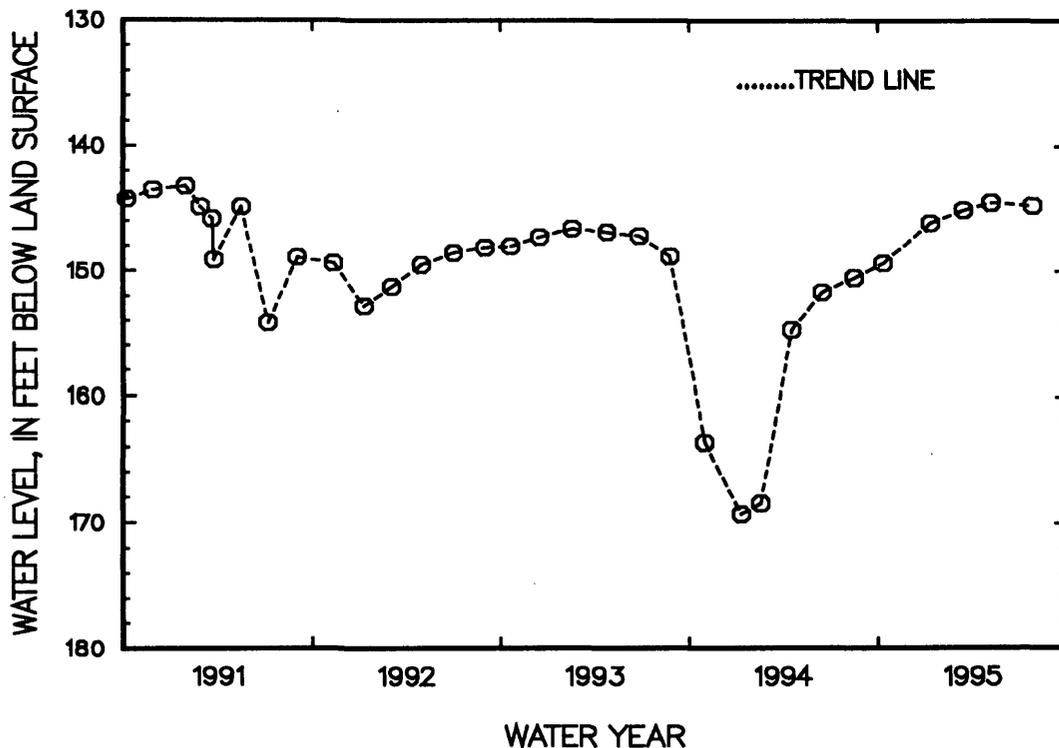
PERIOD OF RECORD.--June 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 129.90 ft below land-surface datum, Aug. 28, 1984; lowest measured, 169.26 ft below land-surface datum, Jan. 11, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	149.31	JAN 11	146.10	MAR 16	145.05	MAY 08	144.47	JUL 26	144.71

WATER YEAR 1995 HIGHEST 144.47 MAY 08, 1995 LOWEST 149.31 OCT 12, 1994



CITY OF SUFFOLK

364731076355503. Local number, 58C 63 SOW 159C.

LOCATION.--Lat 36°47'31", long 76°35'55", Hydrologic Unit 02080208, 0.5 mi northwest of intersection of State Highways 622 and 634, 2.3 mi northwest of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 650 ft, screened 630 to 650 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 26, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

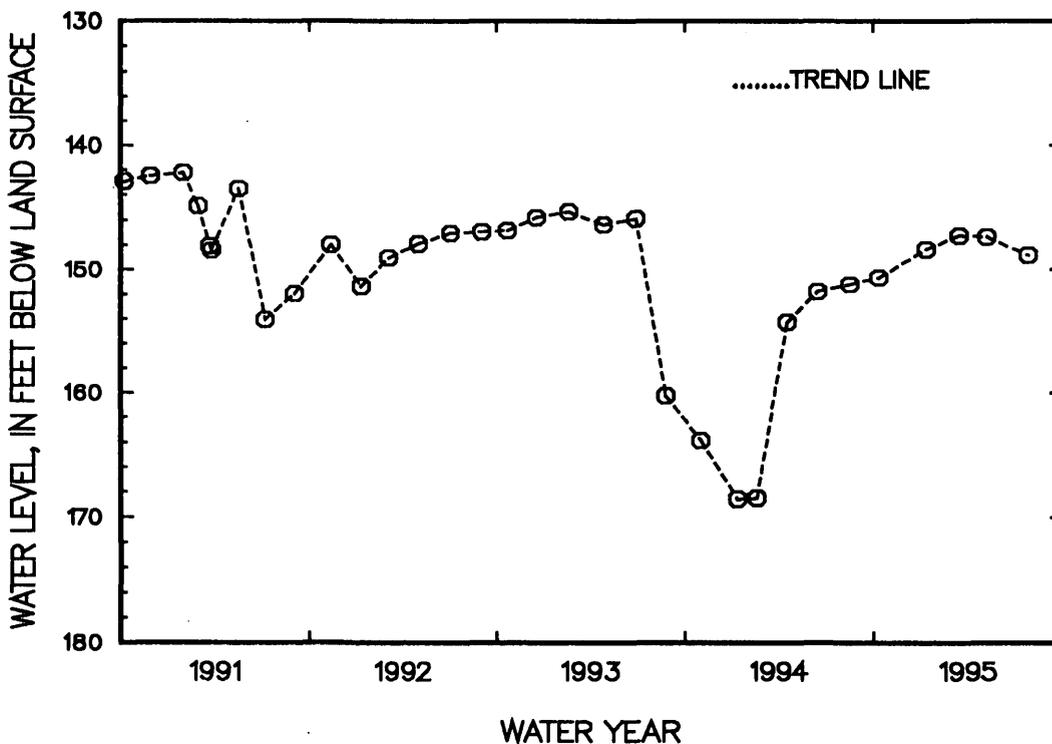
PERIOD OF RECORD.--May 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127.75 ft below land-surface datum, Dec. 23, 1981; lowest measured, 182.80 ft below land-surface datum, July 1, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 12	150.67	JAN 11	148.36	MAR 16	147.27	MAY 08	147.39	JUL 26	148.83

WATER YEAR 1995 HIGHEST 147.27 MAR 16, 1995 LOWEST 150.67 OCT 12, 1994



GROUND-WATER LEVELS

SURRY COUNTY

370408076460101. Local number, 56E 1.

LOCATION.--Lat 37°04'08", long 76°46'01" (corrected), Hydrologic Unit 03010202, off State Highway 617, 3.2 mi southwest of Bacons Castle. Owner: Buster E. Cox.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 18 in. to 360 ft, diameter 8 in. from 333.5 to 705 ft, depth 705 ft, screened 401 to 411 ft, 431 to 441 ft, 463 to 473 ft, 495 to 505 ft, 540 to 555 ft, 700 to 705 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Aug. 7, 1969, to June 7, 1977, continuous strip-chart recorder. Occasional measurement with chalked tape by USGS personnel March 1942, April, July, and August 1969.

DATUM.--Elevation of land-surface datum is 93 ft above sea level, from topographic map. Measuring point: Top edge of recorder shelf, 3.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1942, April 1969 to September 1995 (discontinued).

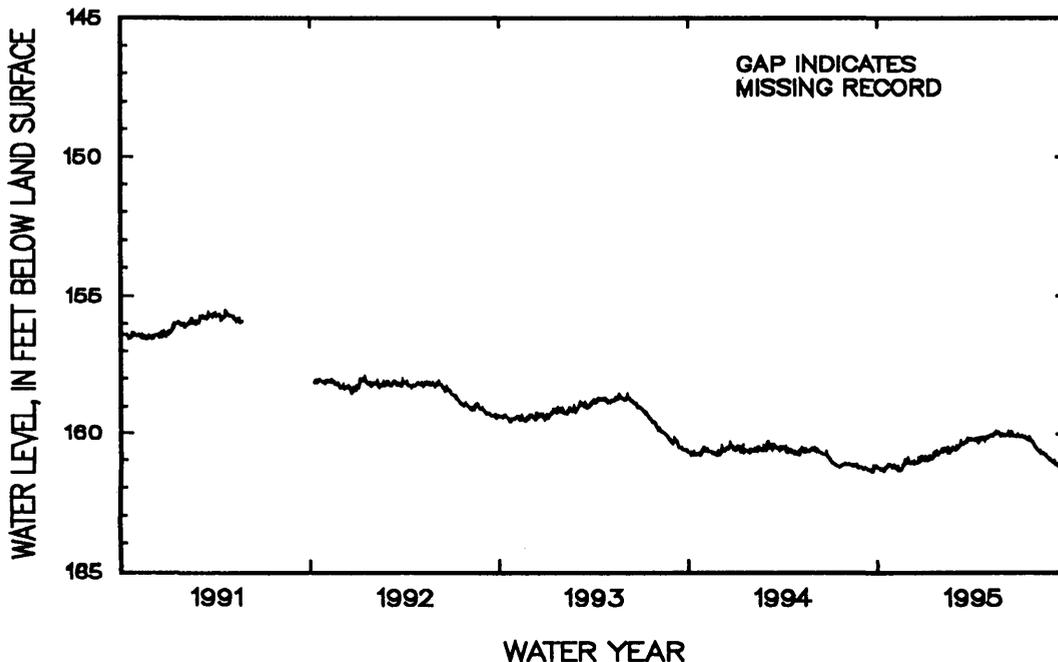
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.52 ft below land-surface datum, Mar. 10, 1942; lowest recorded, 161.38 ft below land-surface datum, Sept. 20, 21, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	161.25	161.24	161.02	160.95	160.52	160.48	160.20	160.03	160.04	160.12	160.61	161.09
10	161.29	161.27	161.01	160.91	160.59	160.34	160.28	160.04	160.08	160.14	160.68	161.15
15	161.23	161.29	161.05	160.83	160.70	160.33	160.17	159.94	160.04	160.19	160.75	161.22
20	161.14	161.12	160.99	160.63	160.52	160.29	160.17	159.95	160.06	160.23	160.84	161.19
25	161.14	160.98	160.86	160.73	160.58	160.20	160.12	160.04	160.03	160.34	160.93	161.15
EOM	161.17	161.02	160.96	160.57	160.53	160.18	160.12	160.05	160.09	160.53	161.00	161.21

WATER YEAR 1995 HIGHEST INSTANTANEOUS 159.87 JUN 13, 1995
 LOWEST INSTANTANEOUS 161.35 OCT 12, 1994

DAILY LOW-WATER LEVELS



SURRY COUNTY

370800076500701. Local number, 56F 2 SOW 039.

LOCATION.--Lat 37°08'00", long 76°50'07", Hydrologic Unit 02080206, off State Highway 10, at Surry County Administration building in Surry. Owner: Town of Surry.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 367 ft, screened 350 to 362 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Jan. 10, 1976, to Oct. 7, 1985, occasional measurement with chalked tape. Mar. 15, 1971, to Jan. 10, 1976, continuous strip-chart recorder. Prior to Mar. 15, 1971, occasional measurement with chalked tape.

DATUM--Elevation of land-surface datum is 122 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

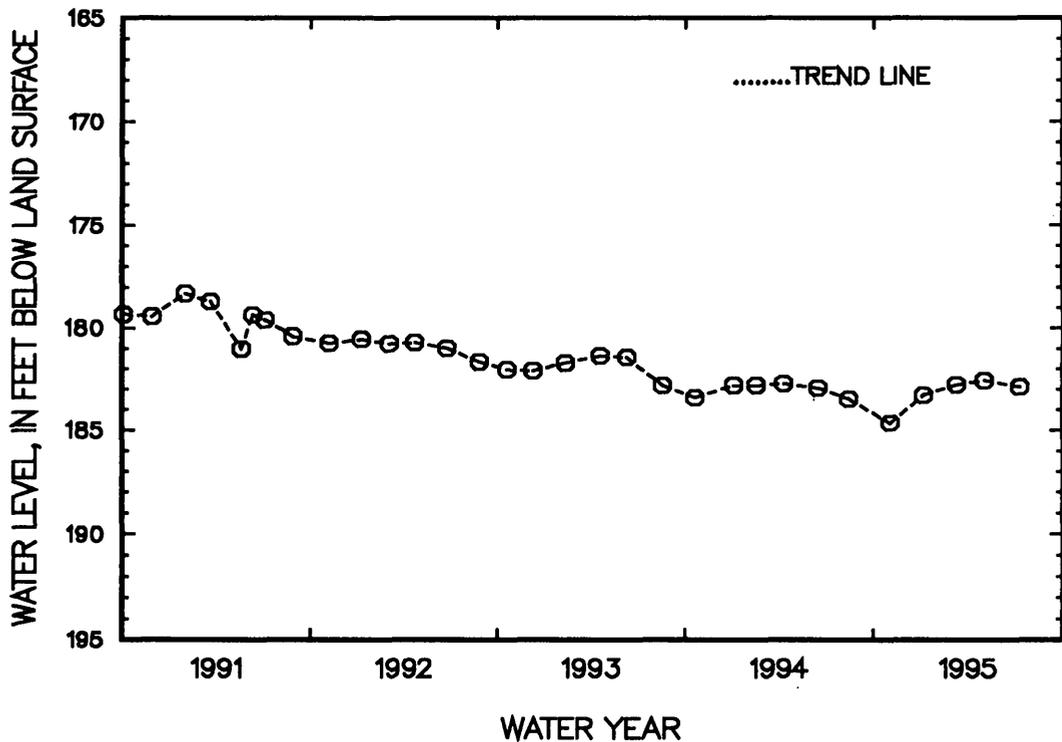
PERIOD OF RECORD.--December 1970 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 146.43 ft below land-surface datum, Mar. 25, 1971; lowest measured, 184.64 ft below land-surface datum, Nov. 3, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	184.64	JAN 06	183.28	MAR 10	182.76	MAY 03	182.56	JUL 10	182.87

WATER YEAR 1995 HIGHEST 182.56 MAY 03, 1995 LOWEST 184.64 NOV 03, 1994



GROUND-WATER LEVELS

SURRY COUNTY

370712076413201. Local number, 57E 11 SOW 094A.

LOCATION.--Lat 37°07'12", long 76°41'32", Hydrologic Unit 02080206, 0.5 mi east of State Highway 690, 2.5 mi northwest of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 605 ft, screened 595 to 605 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

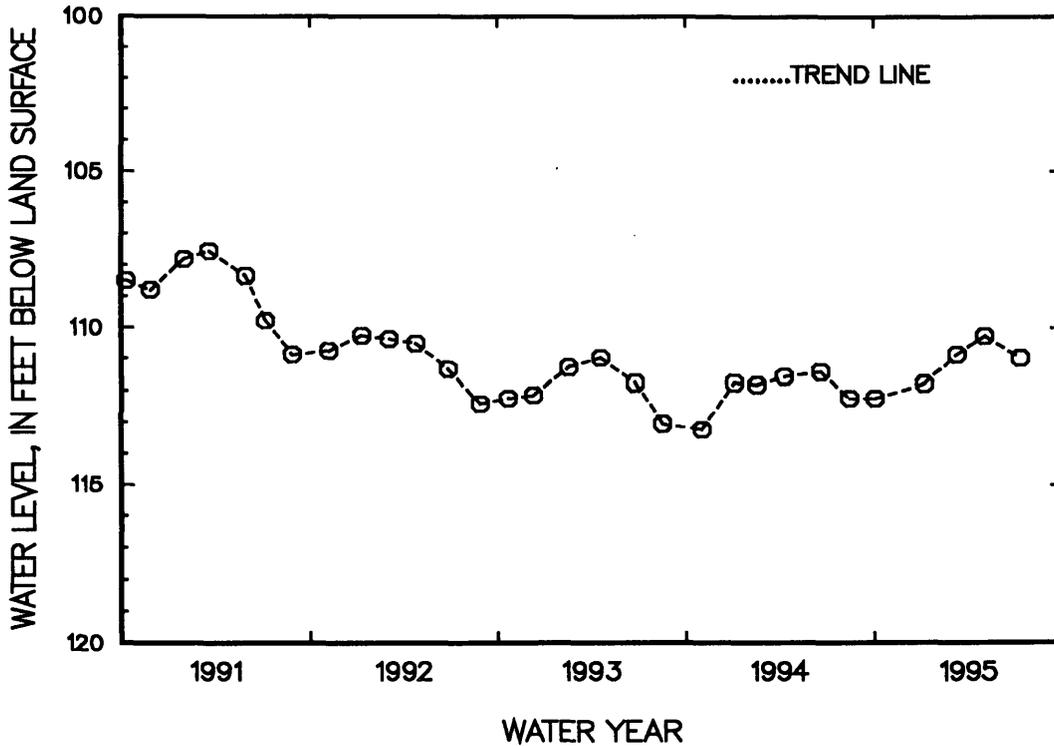
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.19 ft below land-surface datum, July 24, 1980; lowest measured, 113.21 ft below land-surface datum, Nov. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 03	112.20	JAN 06	111.75	MAR 10	110.84	MAY 03	110.26	JUL 10	110.95

WATER YEAR 1995 HIGHEST 110.26 MAY 03, 1995 LOWEST 112.20 OCT 03, 1994



SURRY COUNTY

370712076413202. Local number, 57E 12 SOW 094B.

LOCATION.--Lat 37°07'12", long 76°41'32", Hydrologic Unit 02080206, 0.5 mi east of State Highway 690, 2.5 mi northwest of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 430 ft, diameter 3 in. from 430 to 440 ft, depth 440 ft, screened 430 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

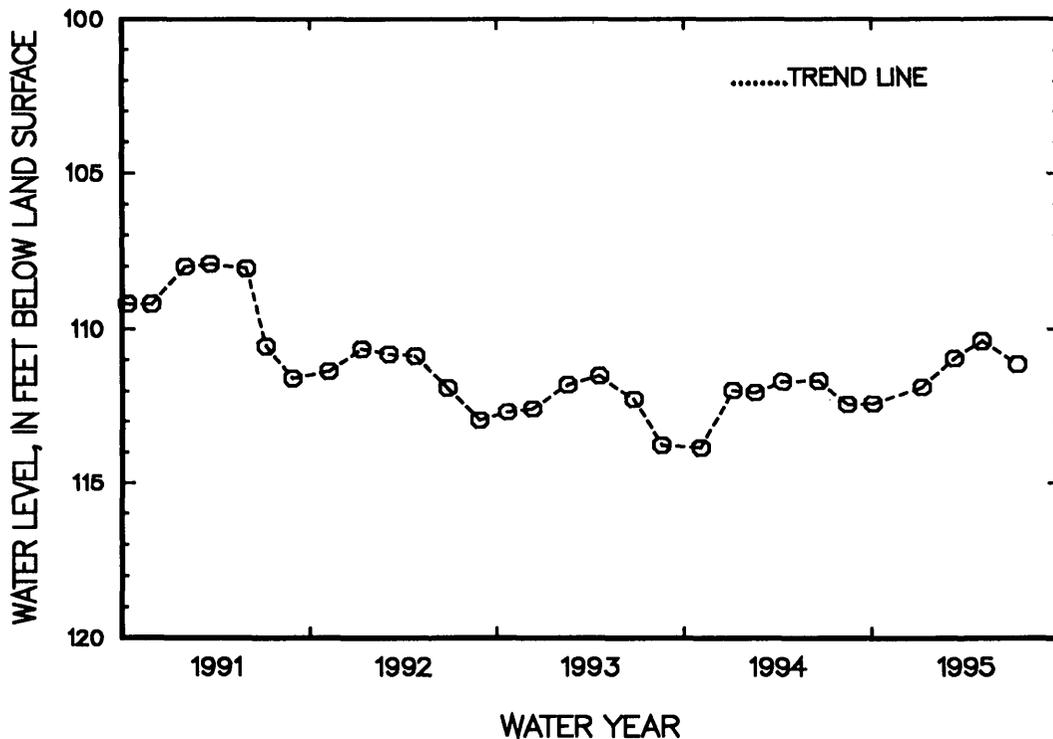
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.90 ft below land-surface datum, May 29, 1980; lowest measured, 113.85 ft below land-surface datum, Nov. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 03	112.41	JAN 06	111.87	MAR 10	110.94	MAY 03	110.39	JUL 10	111.14

WATER YEAR 1995 HIGHEST 110.39 MAY 03, 1995 LOWEST 112.41 OCT 03, 1994



GROUND-WATER LEVELS

SURRY COUNTY

370712076413203. Local number, 57E 13 SOW 094C.

LOCATION.--Lat 37°07'12", long 76°41'32", Hydrologic Unit 02080206, 0.5 mi east of State Highway 690, 2.5 mi northwest of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 41 ft, diameter 3 in. from 41 to 46 ft, depth 46 ft, screened 41 to 46 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

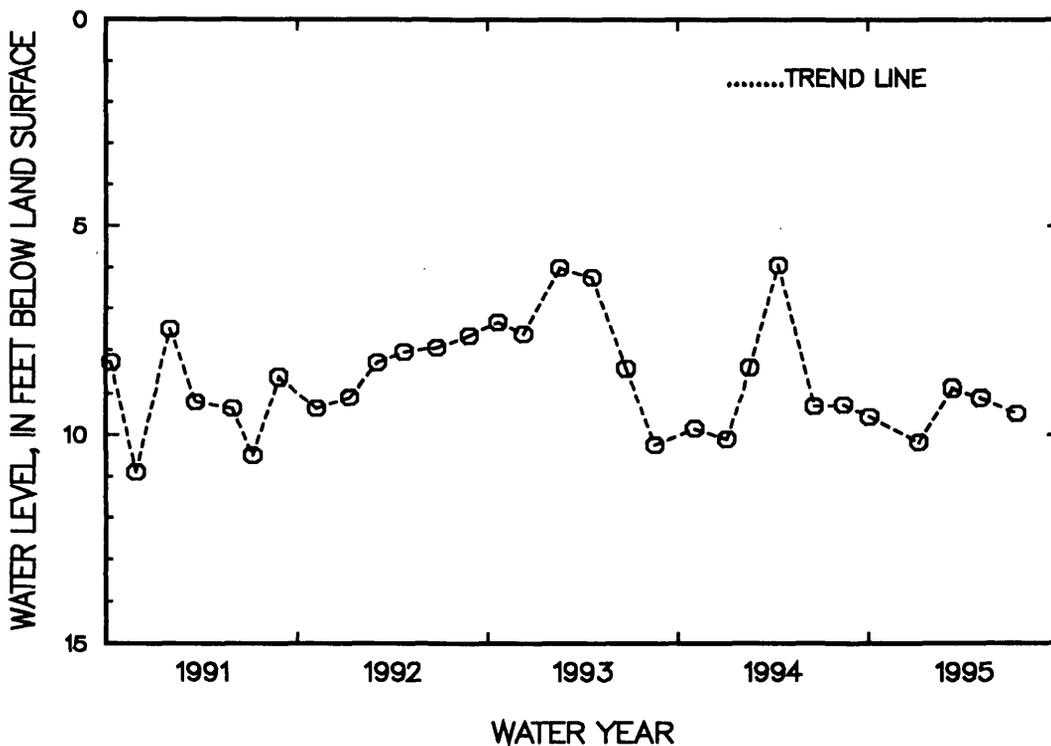
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.90 ft below land-surface datum, May 29, 1980; lowest measured, 11.17 ft below land-surface datum, Dec. 13, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 03	9.56	JAN 06	10.17	MAR 10	8.89	MAY 03	9.10	JUL 10	9.48

WATER YEAR 1995 HIGHEST 8.89 MAR 10, 1995 LOWEST 10.17 JAN 06, 1995



SURRY COUNTY

371132076405501. Local number, 57F 16 SOW 087A.

LOCATION.--Lat 37°11'32", long 76°40'55", Hydrologic Unit 02080206, at the end of State Highway 650 in Homewood, 7.6 mi northeast of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,206 ft, screened 1,170 to 1,185 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

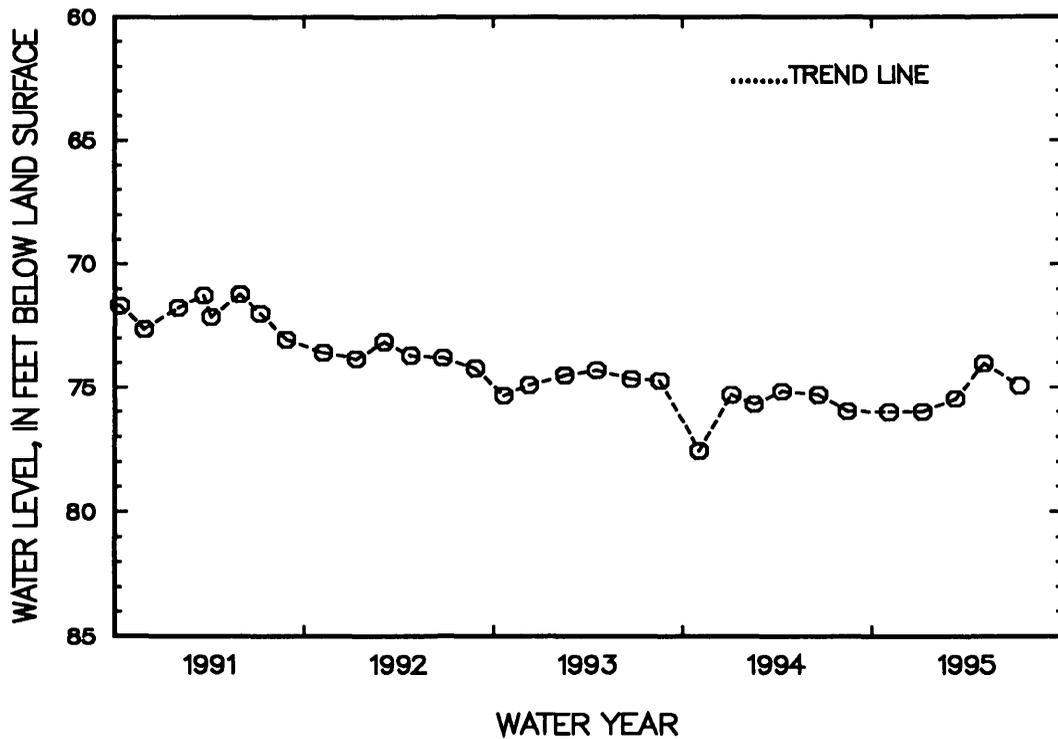
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.22 ft below land-surface datum, July 20, 1978; lowest measured, 77.55 ft below land-surface datum, Nov. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	76.00	JAN 06	75.98	MAR 10	75.47	MAY 03	74.02	JUL 10	74.93

WATER YEAR 1995 HIGHEST 74.02 MAY 03, 1995 LOWEST 76.00 NOV 03, 1994



GROUND-WATER LEVELS

SURRY COUNTY

371132076405502. Local number, 57F 24 SOW 087B.

LOCATION.--Lat 37°11'32", long 76°40'55", Hydrologic Unit 02080206, at the end of State Highway 650 in Homewood, 7.6 mi northeast of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 520 ft, screened 510 to 520 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

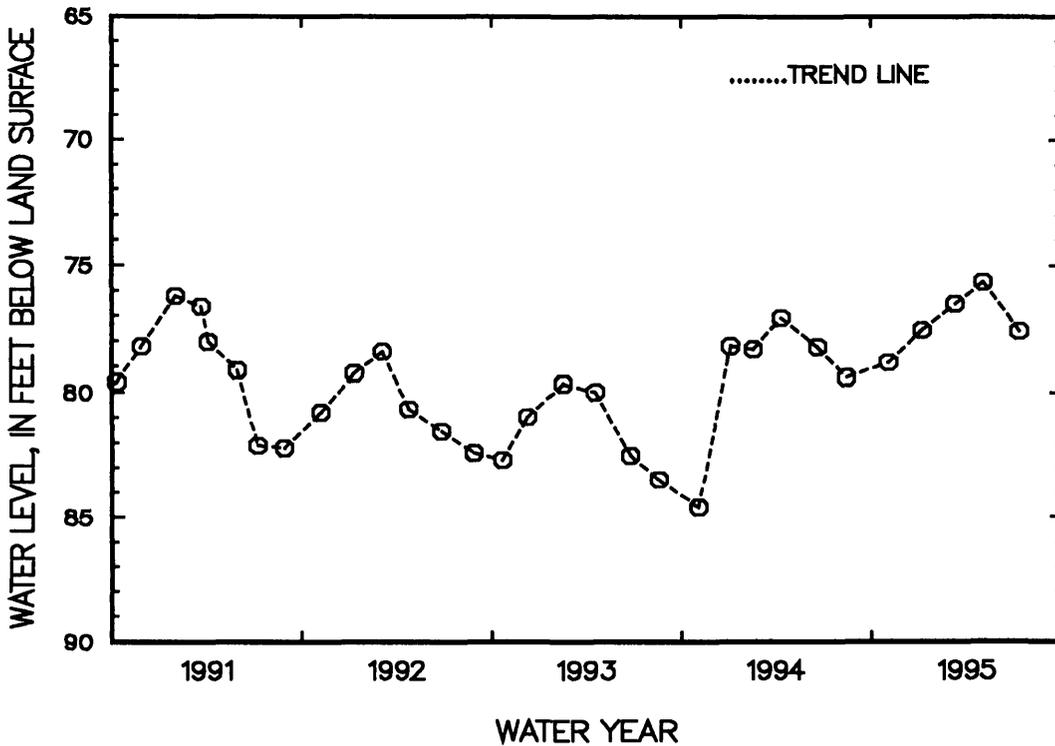
PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.17 ft below land-surface datum, Aug. 17, 1982; lowest measured, 84.60 ft below land-surface datum, Nov. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 03	78.84	JAN 06	77.57	MAR 10	76.52	MAY 03	75.64	JUL 10	77.62

WATER YEAR 1995 HIGHEST 75.64 MAY 03, 1995 LOWEST 78.84 NOV 03, 1994



SUSSEX COUNTY

365843077090201. Local number, 53D 3 SOW 048.

LOCATION.--Lat 36°58'43", long 77°09'02", Hydrologic Unit 03010201, off State Highway 40, 2.4 mi northeast of Homeville, and 5.5 mi south of Waverly. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle and lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 554 ft, screened 279 to 284 ft, 358 to 363 ft, 439 to 444 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 2.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey thereafter. Water level affected by regional drawdown.

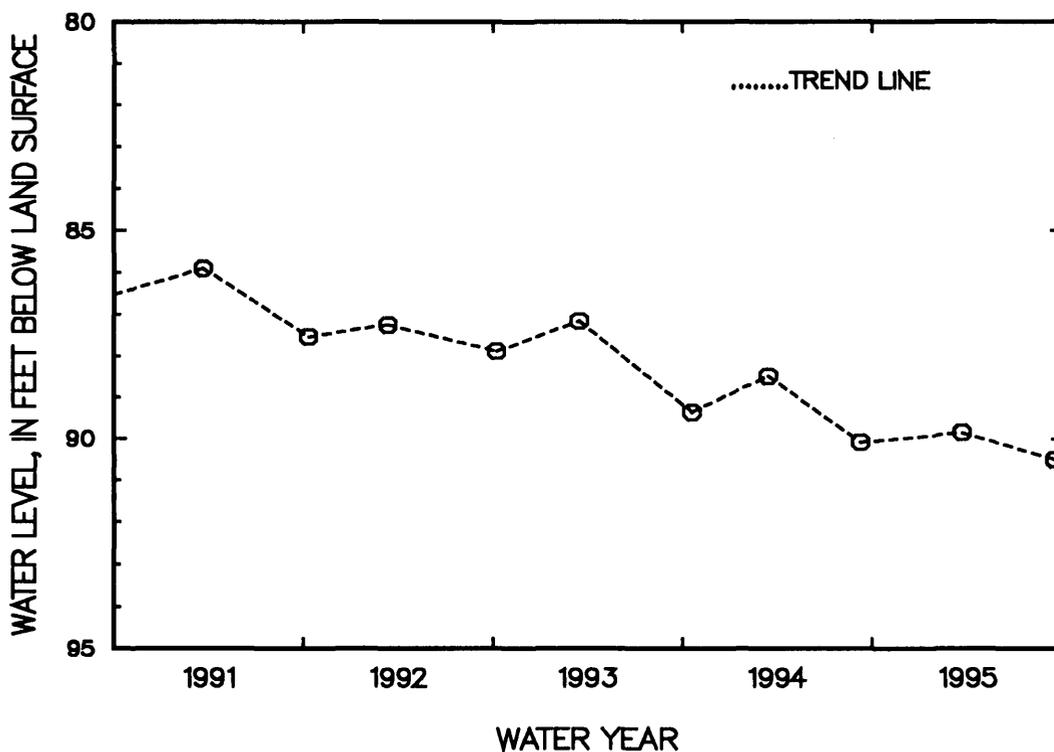
PERIOD OF RECORD.--August 1971 to September 1995 (discontinued). Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.39 ft below land-surface datum, May 15, 1972; lowest measured, 90.50 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	89.85	SEP 12	90.50

WATER YEAR 1995 HIGHEST 89.85 MAR 21, 1995 LOWEST 90.50 SEP 12, 1995



GROUND-WATER LEVELS

SUSSEX COUNTY

365530077104002. Local number, 53D 6 SOW 179A

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 470 ft, screened 460 to 470 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

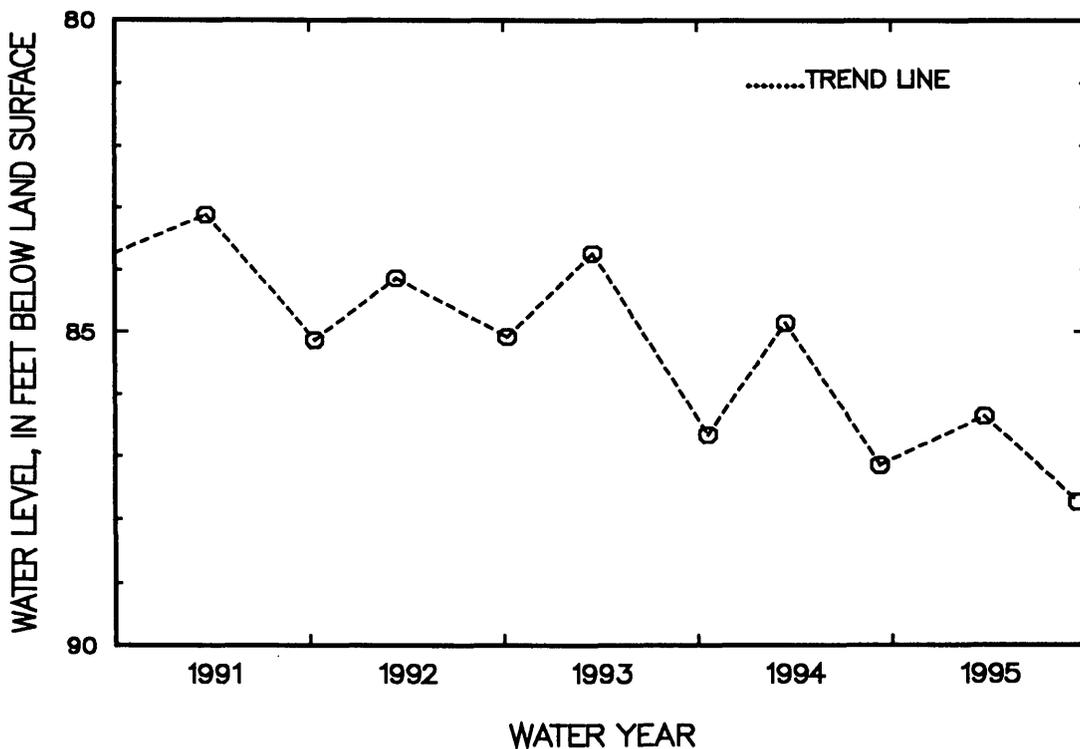
PERIOD OF RECORD.--November 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 78.50 ft below land-surface datum, Feb. 12, 1988; lowest measured, 87.70 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	86.35	SEP 12	87.70

WATER YEAR 1995 HIGHEST 86.35 MAR 22, 1995 LOWEST 87.70 SEP 12, 1995



SUSSEX COUNTY

365530077104003. Local number, 53D 7 SOW 179B.

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 398 ft, diameter 2 in. from 394 to 425 ft, depth 425 ft, screened 415 to 425 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

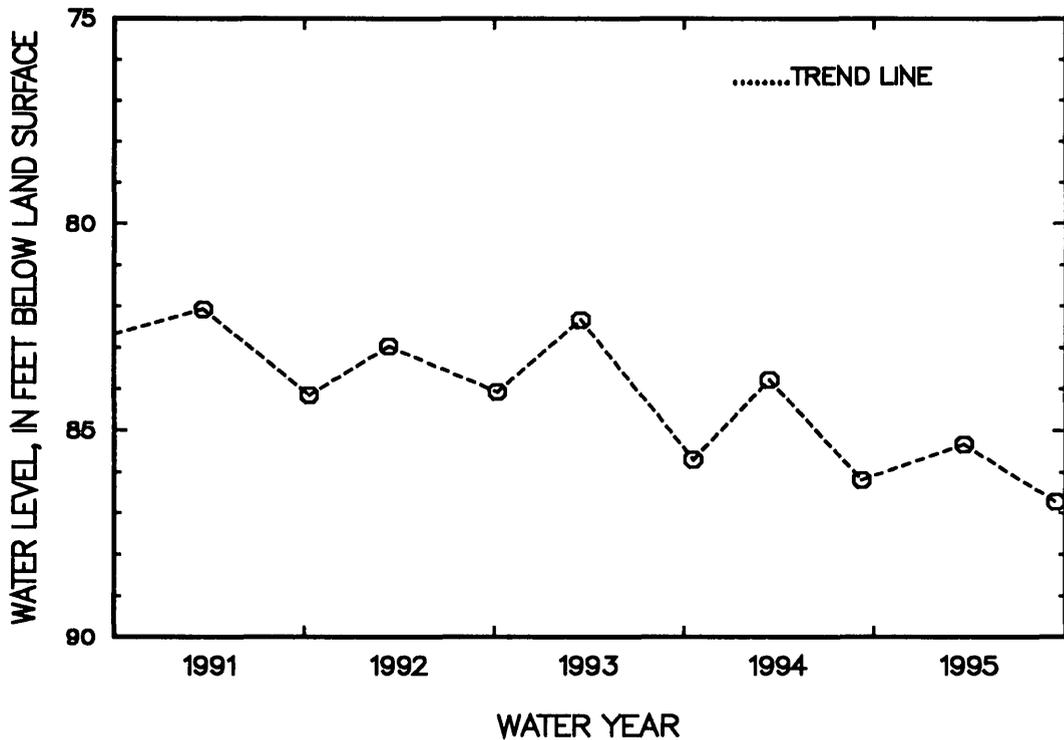
REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--December 1985 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.47 ft below land-surface datum, Dec. 17, 1985; lowest measured, 86.73 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	DATE	WATER LEVEL	DATE	WATER LEVEL		
	MAR 22	85.33	SEP 12	86.73		
WATER YEAR 1995	HIGHEST	85.33	MAR 22, 1995	LOWEST	86.73	SEP 12, 1995



GROUND-WATER LEVELS

SUSSEX COUNTY

365530077104005. Local number, 53D 9 SOW 179D.

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 185 ft, diameter 2 in. from 178 to 209 ft, depth 209 ft, screened 199 to 209 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

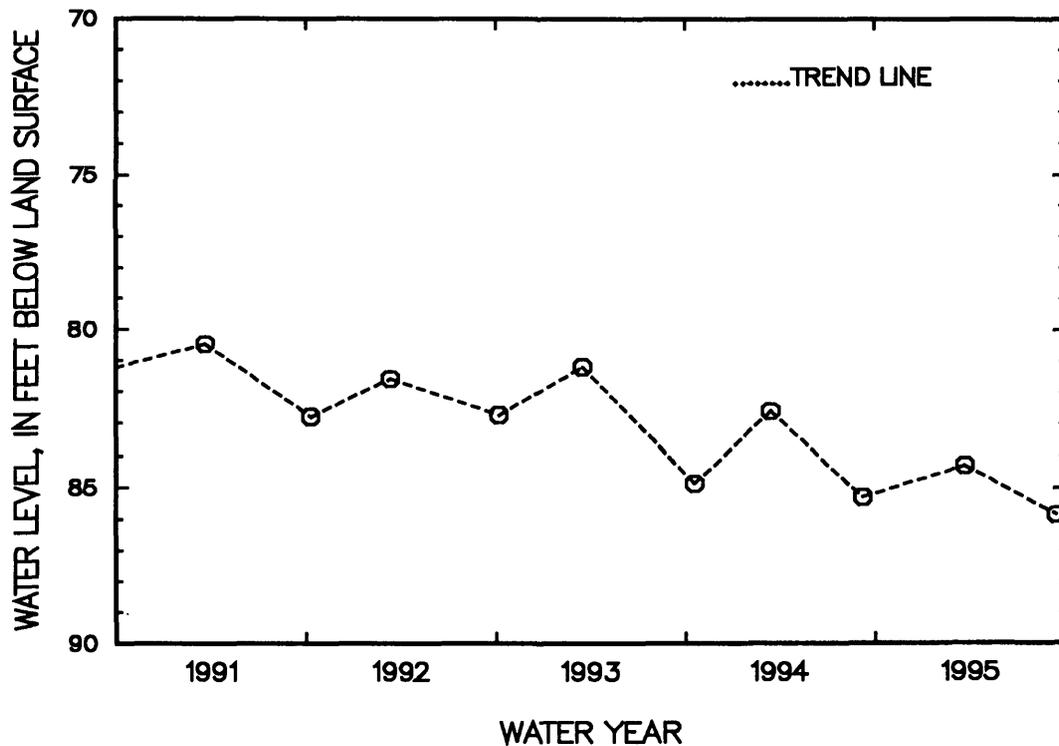
PERIOD OF RECORD.--December 1986 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 76.51 ft below land-surface datum, Apr. 17, 1987; lowest recorded, 85.85 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	84.28	SEP 12	85.85

WATER YEAR 1995 HIGHEST 84.28 MAR 22, 1995 LOWEST 85.85 SEP 12, 1995



SUSSEX COUNTY

365530077104006. Local number, 53D 10 SOW 179E.

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 130 ft, diameter 4 in. from 140 to 145 ft, depth 145 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage and regional drawdown.

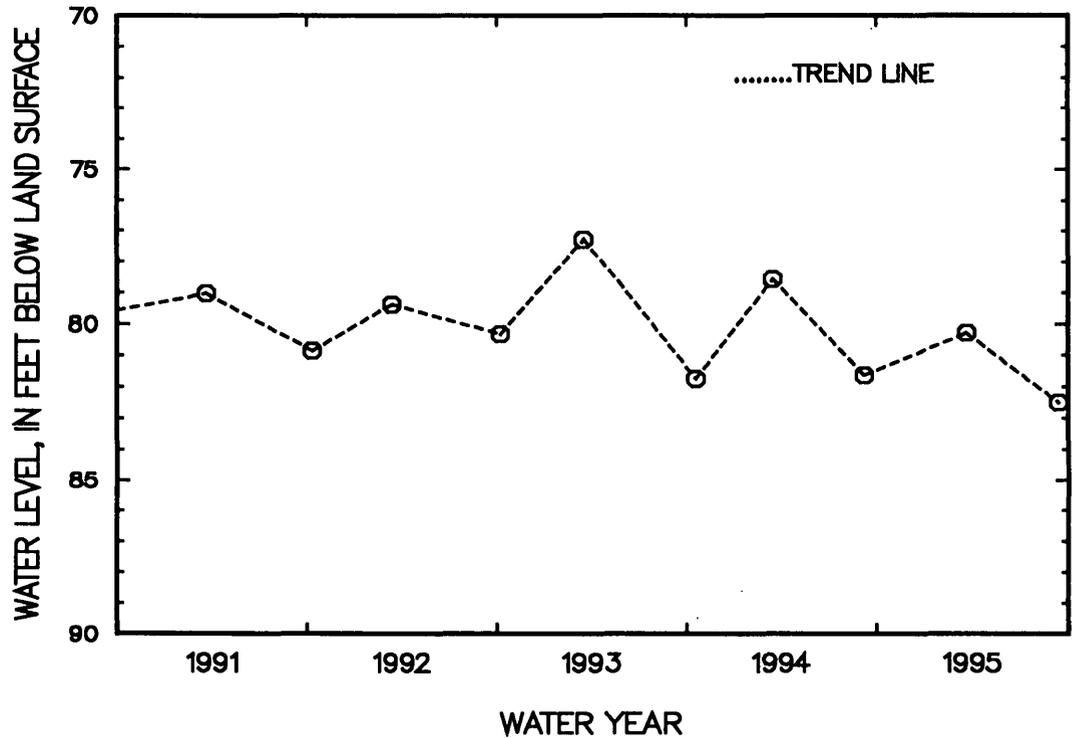
PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 76.25 ft below land-surface datum, Apr. 24, 1987; lowest measured, 82.50 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	80.28	SEP 12	82.50

WATER YEAR 1995 HIGHEST 80.28 MAR 22, 1995 LOWEST 82.50 SEP 12, 1995



GROUND-WATER LEVELS

SUSSEX COUNTY

365530077104007. Local number, 53D 11 SOW 179F.

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 82 ft, diameter 4 in. from 92 to 97 ft, depth 97 ft, screened 82 to 92 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage.

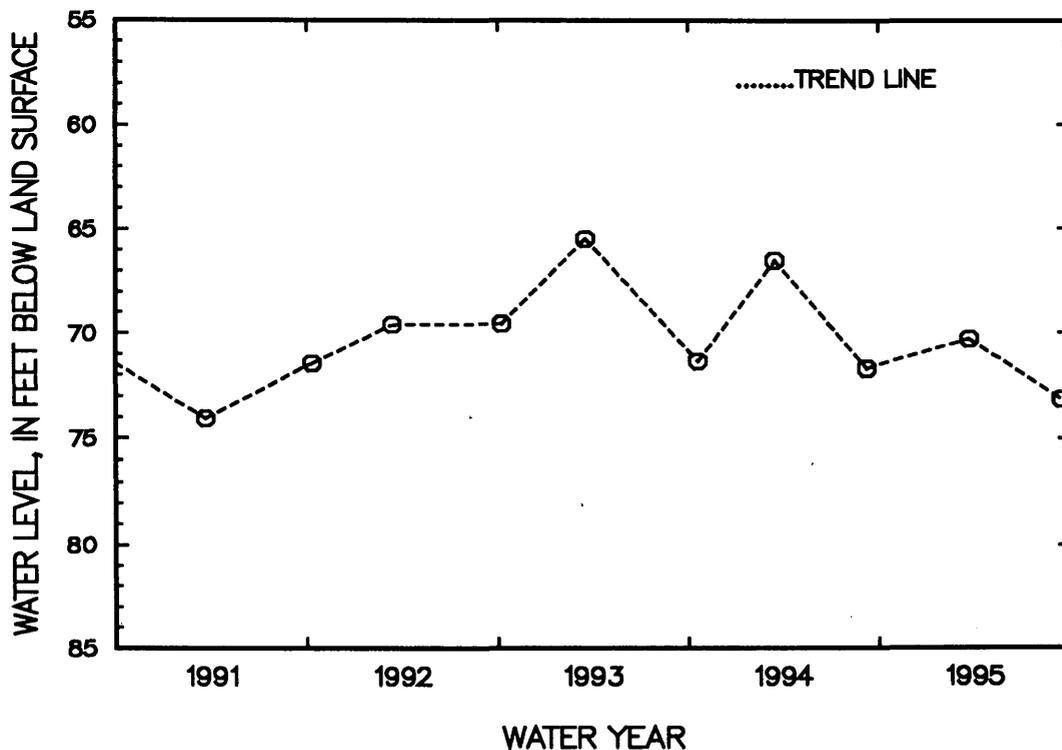
PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.49 ft below land-surface datum, Mar. 18, 1993; lowest recorded, 77.16 ft below land-surface datum, Nov. 28 to Dec. 1, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	70.30	SEP 12	73.17

WATER YEAR 1995 HIGHEST 70.30 MAR 22, 1995 LOWEST 73.17 SEP 12, 1995



SUSSEX COUNTY

365530077104008. Local number, 53D 12 SOW 179G.

LOCATION.--Lat 36°55'30", long 77°10'40", Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi south of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 47 ft, diameter 4 in. from 47 to 67 ft, depth 67 ft, screened 47 to 57 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage.

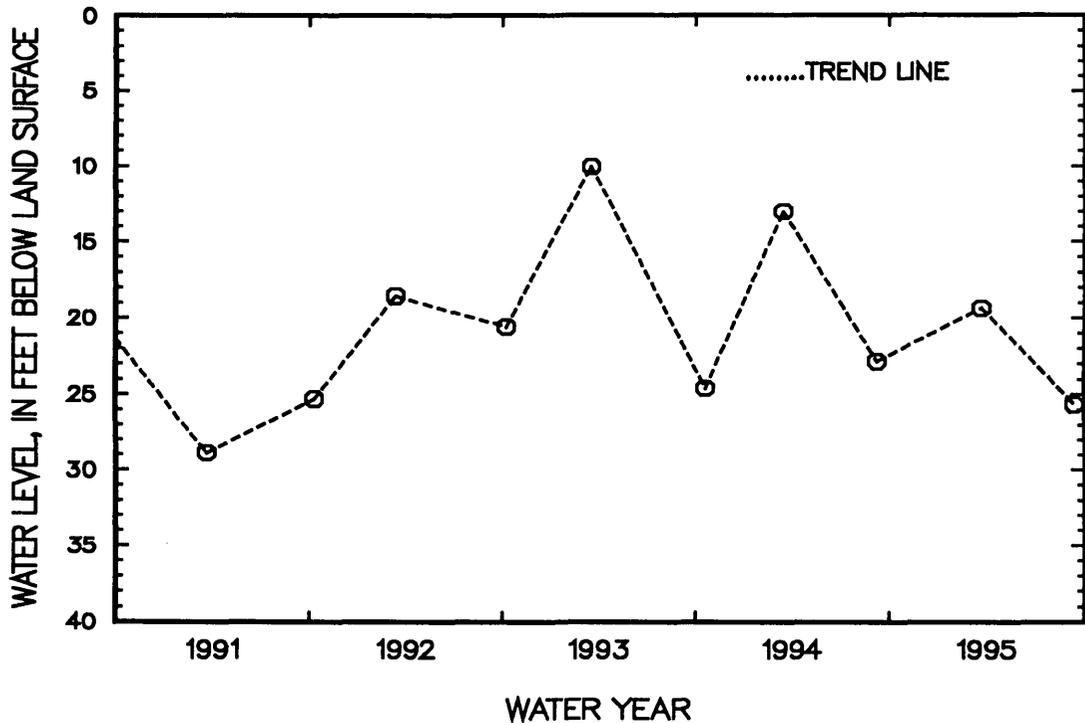
PERIOD OF RECORD.--December 1985 to September 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.06 ft below land-surface datum, Mar. 18, 1993; lowest measured, 28.89 ft below land-surface datum, Mar. 21, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	19.37	SEP 12	25.66

WATER YEAR 1995 HIGHEST 19.37 MAR 22, 1995 LOWEST 25.66 SEP 12, 1995



GROUND-WATER LEVELS

SUSSEX COUNTY

365235077150501. Local number, 53E 5 SOW 045.

LOCATION.--Lat 37°02'37", long 77°11'30", Hydrologic Unit 03010201, 400 ft northeast of State Highway 625, 2.5 mi north of Newville. Owner: Butler Lumber Company.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 172 ft, screened 162 to 172 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 126.65 ft above sea level. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 8, 1988; 1.2 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey thereafter. Water level affected by local pumpage and regional drawdown.

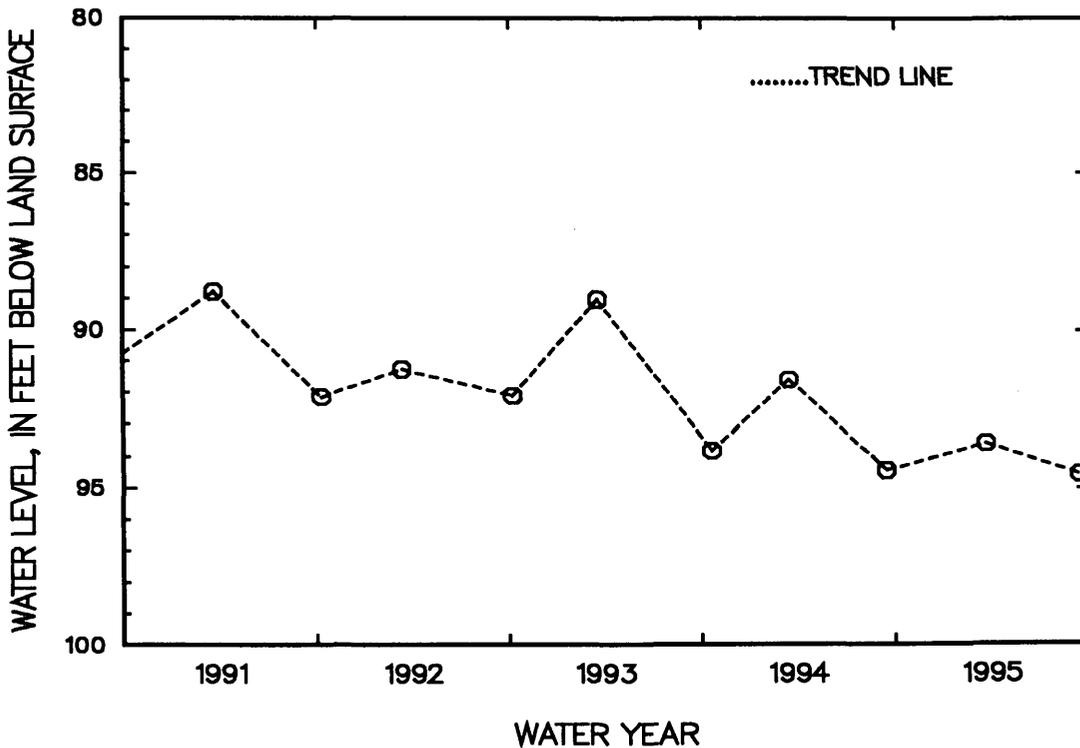
PERIOD OF RECORD.--September 1971, October 1974 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.90 ft below land-surface datum, Mar. 16, 1976; lowest measured, 94.54 ft below land-surface datum, Sept. 12, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 21	93.55	SEP 12	94.54

WATER YEAR 1995 HIGHEST 93.55 MAR 21, 1995 LOWEST 94.54 SEP 12, 1995



CITY OF VIRGINIA BEACH

364850076120701. Local number, 61C 23 SOW 129.

LOCATION.--Lat 36°48'50", long 76°12'07", Hydrologic Unit 02080208, at Woodstock Elementary School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 8 in. to 68 ft, diameter 6 in. from 68 to 78 ft, depth 78 ft, screened 68 to 73 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

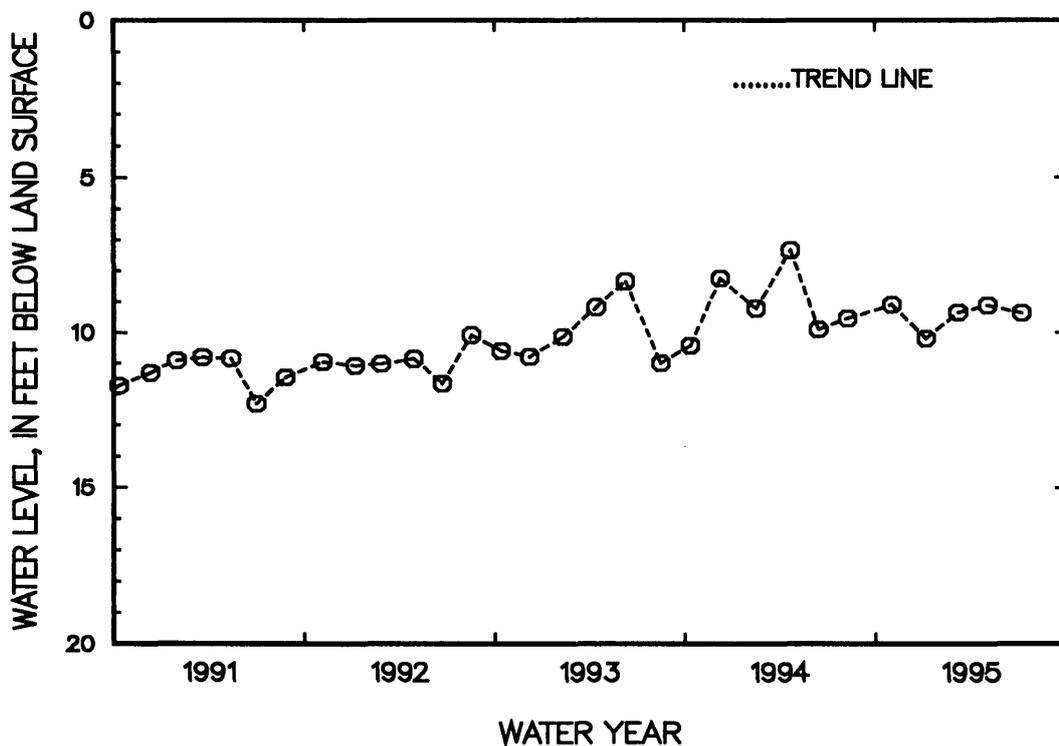
PERIOD OF RECORD.--April 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.34 ft below land-surface datum, Apr. 22, 1994; lowest measured, 17.77 ft below land-surface datum, Aug. 26, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.11	JAN 05	10.19	MAR 07	9.35	MAY 02	9.13	JUL 05	9.37

WATER YEAR 1995 HIGHEST 9.11 NOV 01, 1994 LOWEST 10.19 JAN 05, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364920076093601. Local number, 61C 25 SOW 130.

LOCATION.--Lat 36°49'20", long 76°09'36", Hydrologic Unit 02080208, at Kempsville Elementary School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 71 ft, screened 61 to 66 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.12 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

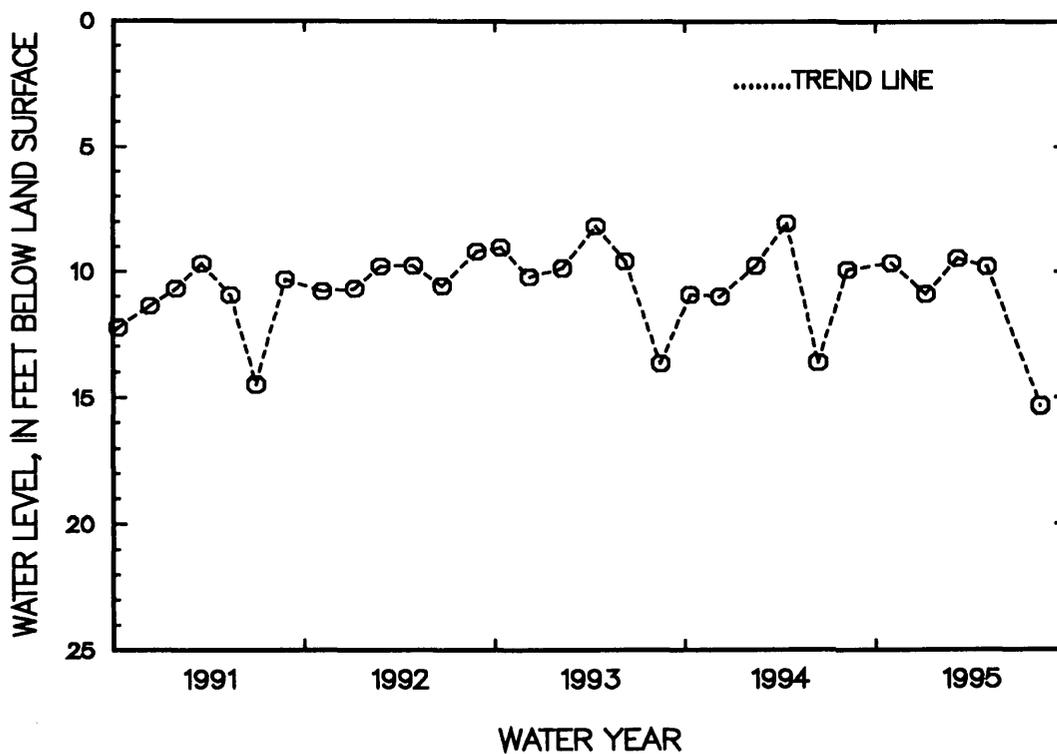
PERIOD OF RECORD.--April 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.12 ft below land-surface datum, Feb. 20, 1980; lowest measured, 17.76 ft below land-surface datum, July 18, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.65	JAN 05	10.89	MAR 07	9.48	MAY 02	9.79	AUG 10	15.30

WATER YEAR 1995 HIGHEST 9.48 MAR 07, 1995 LOWEST 15.30 AUG 10, 1995



CITY OF VIRGINIA BEACH

364920076093201. Local number, 61C 27 SOW 174A.

LOCATION.--Lat 36°49'20", long 76°09'32", Hydrologic Unit 02080208, at Kempsville High School in Virginia Beach.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 175 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

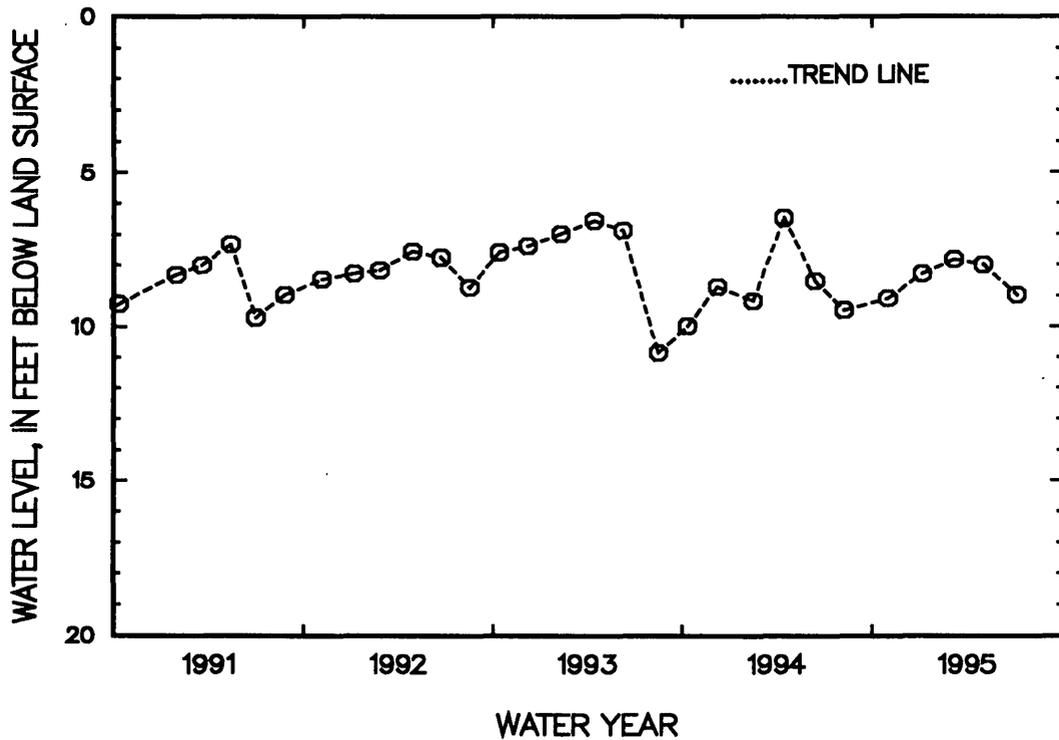
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.09 ft below land-surface datum, Apr. 25, 1984; lowest measured, 11.73 ft below land-surface datum, Aug. 6, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.09	JAN 05	8.29	MAR 07	7.83	MAY 02	8.00	JUL 05	8.97

WATER YEAR 1995 HIGHEST 7.83 MAR 07, 1995 LOWEST 9.09 NOV 01, 1994



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364920076093202. Local number, 61C 28 SOW 174B.

LOCATION.--Lat 36°49'20", long 76°09'32", Hydrologic Unit 02080208, at Kempsville High School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 80 ft, screened 65 to 75 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

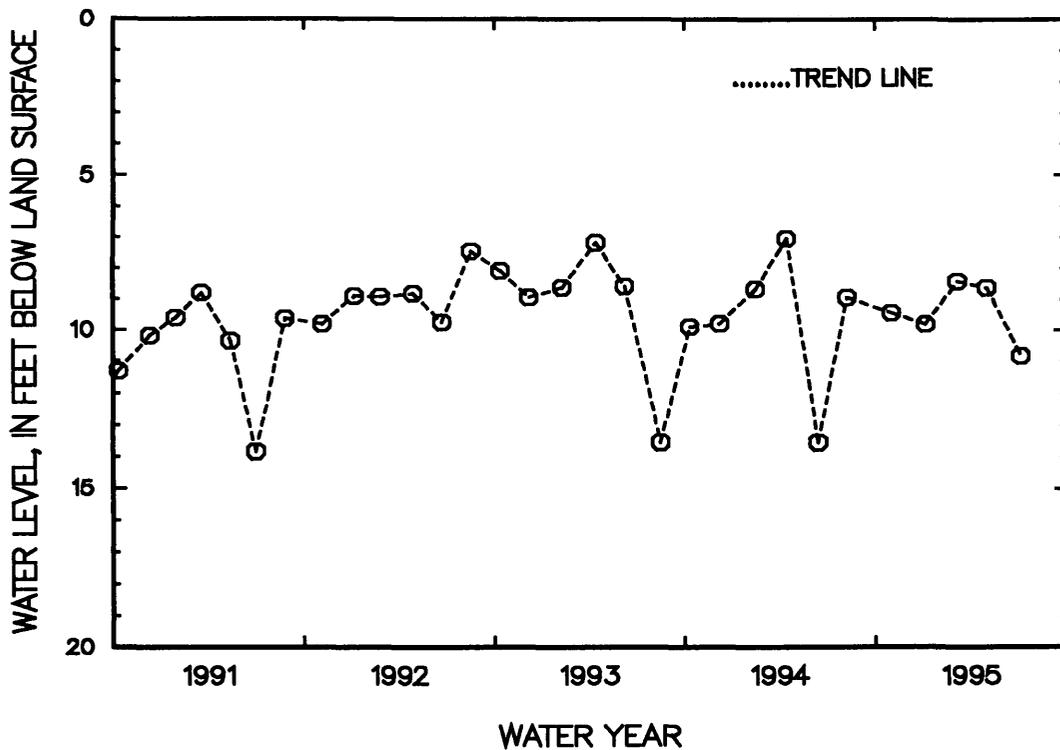
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.51 ft below land-surface datum, Apr. 25, 1984; lowest measured, 17.99 ft below land-surface datum, July 18, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.44	JAN 05	9.82	MAR 07	8.41	MAY 02	8.62	JUL 05	10.83

WATER YEAR 1995 HIGHEST 8.41 MAR 07, 1995 LOWEST 10.83 JUL 05, 1995



CITY OF VIRGINIA BEACH

365325076114001. Local number, 61D 4 SOW 154.

LOCATION.--Lat 36°53'25", long 76°11'40", Hydrologic Unit 02080108, 200 ft west of Barrs Road, 0.4 mi north of Burton Station Road in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 200 ft, diameter 4 in. from 200 to 1,130 ft, depth 1,130 ft, screened 1,000 to 1,010 ft, 1,020 to 1,070 ft, 1,080 to 1,120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 24 ft above sea level, from topographic map. Measuring point: Top of casing, 2.17 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

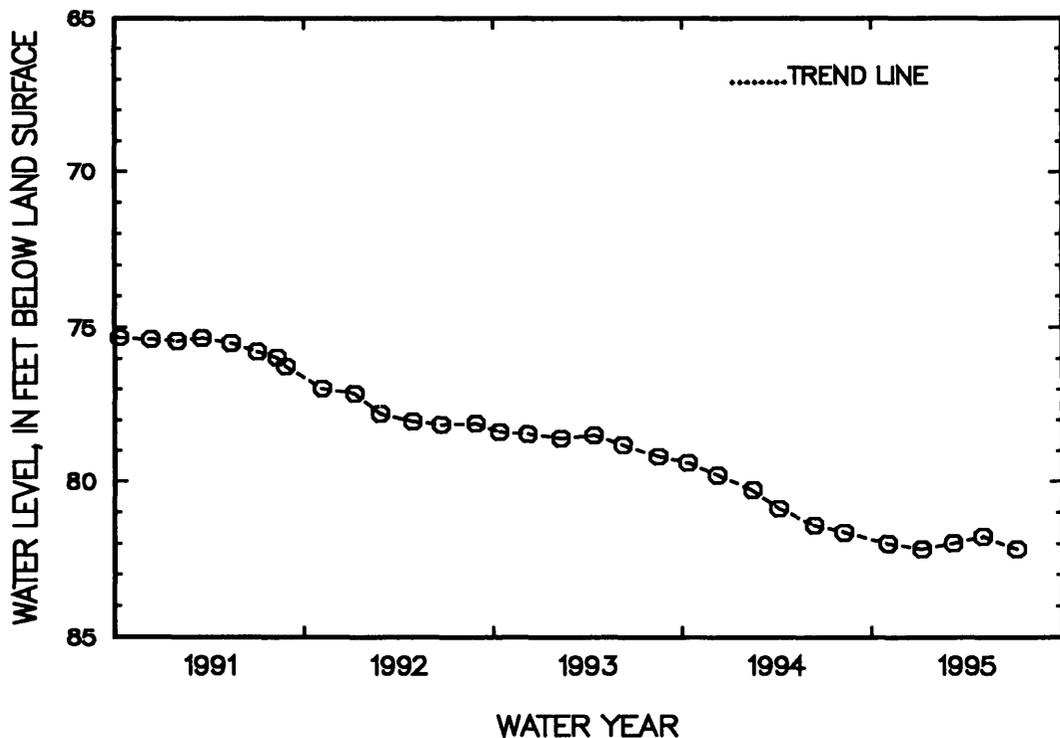
PERIOD OF RECORD.--December 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.47 ft below land-surface datum, Mar. 20, 1981; lowest measured, 82.18 ft below land-surface datum, Jan. 5, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	82.00	JAN 05	82.18	MAR 06	81.99	MAY 02	81.78	JUL 05	82.18

WATER YEAR 1995 HIGHEST 81.78 MAY 02, 1995 LOWEST 82.18 JAN 05, JULY 05, 1995



GROUND-WATER LEVEL

CITY OF VIRGINIA BEACH

365425076105001. Local number, 61D 5 SOW 155.

LOCATION.--Lat 36°54'25", long 76°10'50", Hydrologic Unit 02080108, 100 ft east of Ferry Road, 0.3 mi northwest of Diamond Springs Road in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 12 in. to 102 ft, diameter 6 in. from 102 to 150 ft, diameter 4 in. from 150 to 1,380 ft, depth 1,380 ft, screened 1,207 to 1,229 ft, 1,250 to 1,264 ft, 1,286 to 1,306 ft, 1,345 to 1,367 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above sea level, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

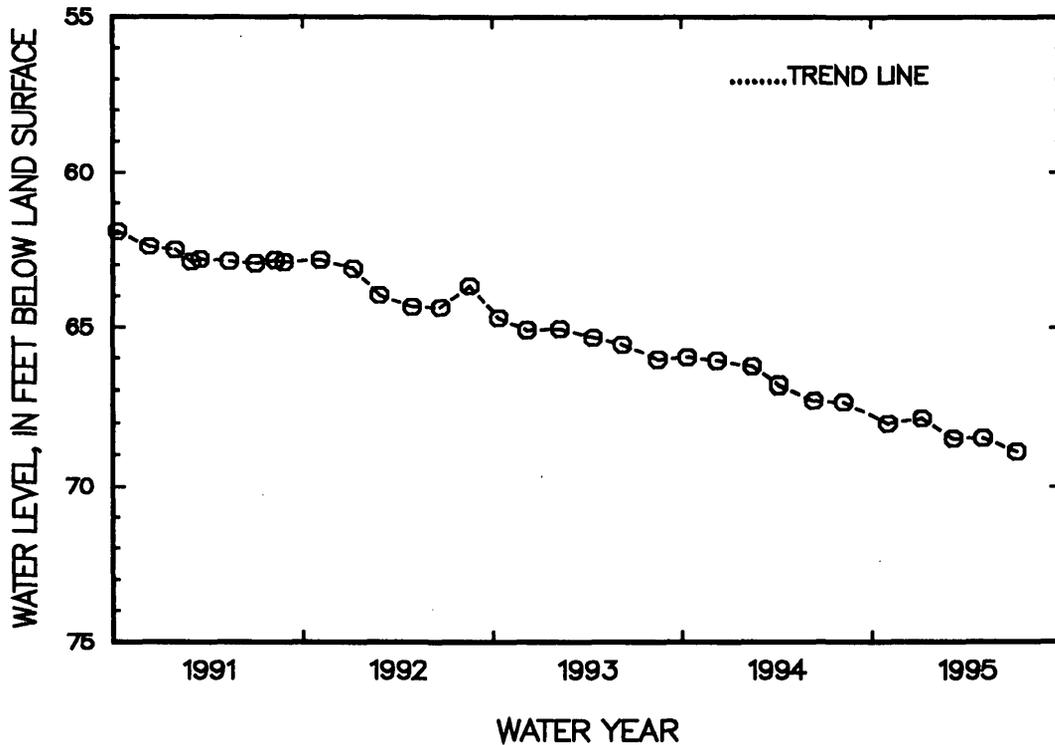
PERIOD OF RECORD.--December 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.75 ft below land-surface datum, Dec. 17, 1980; lowest measured, 68.90 ft below land-surface datum, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	67.99	JAN 05	67.84	MAR 06	68.48	MAY 02	68.46	JUL 05	68.90

WATER YEAR 1995 HIGHEST 67.84 JAN 05, 1995 LOWEST 68.90 JUL 05, 1995



CITY OF VIRGINIA BEACH

365327076080501. Local number, 61D 6 SOW 124.

LOCATION.--Lat 36°53'27", long 76°08'05", Hydrologic Unit 02080108, at Thoroughgood School in Virginia Beach.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 8 in. to 25 ft, diameter 6 in. from 25 to 40 ft, depth 40 ft, screened 25 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 25 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

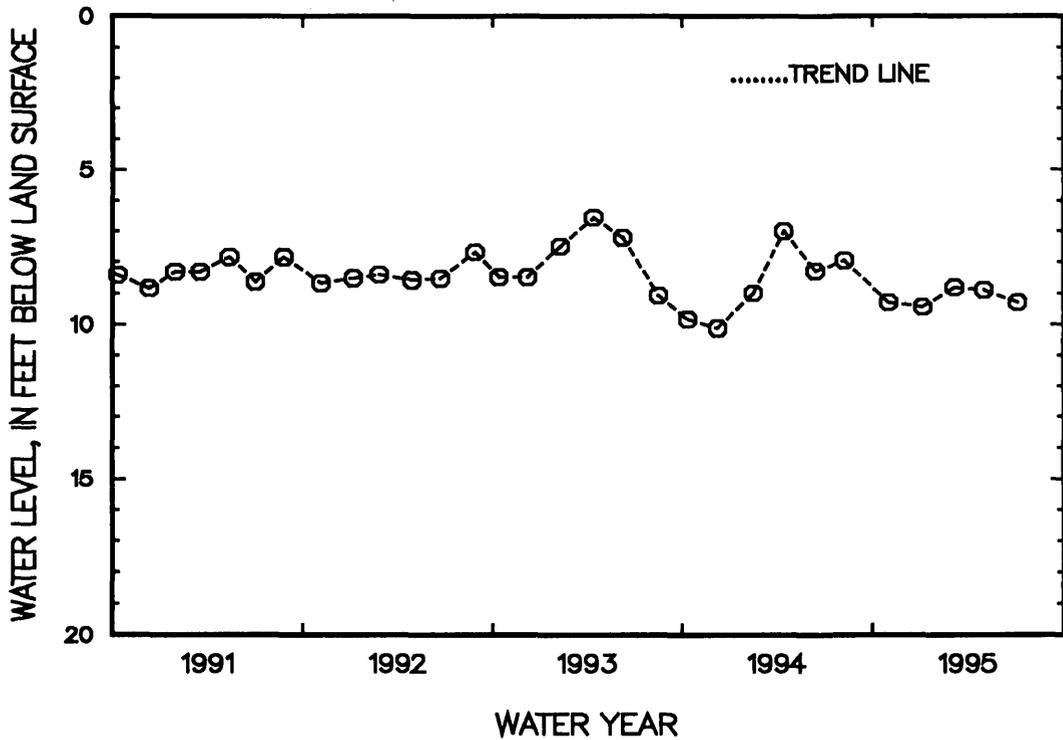
PERIOD OF RECORD.--April 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.85 ft below land-surface datum, Apr. 27, 1984; lowest measured, 10.72 ft below land-surface datum, Nov. 12, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.30	JAN 05	9.44	MAR 07	8.82	MAY 02	8.89	JUL 05	9.30

WATER YEAR 1995 HIGHEST 8.82 MAR 07, 1995 LOWEST 9.44 JAN 05, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

363537076061001. Local number, 62A 2 SOW 097A.

LOCATION.--Lat 36°33'54", long 76°06'14", Hydrologic Unit 03010205, 0.2 mi south of Baum Road, 0.25 mi west of Craggs Causeway in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 76 ft, screened 66 to 76 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Aug. 3, 1988; at land-surface datum Aug. 3, 1988, to Mar. 13, 1989; 0.65 ft Mar. 13, 1989, to Apr. 1, 1991; 1.65 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

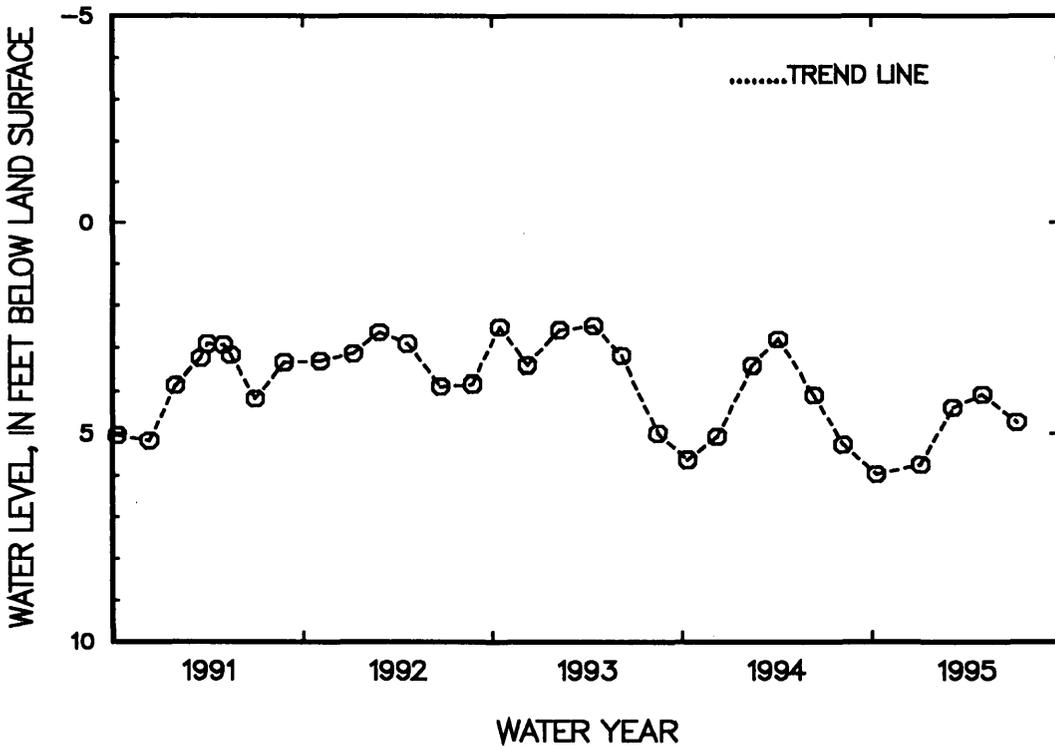
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.18 ft below land-surface datum, Apr. 30, 1980; lowest measured, 6.68 ft below land-surface datum, Nov. 28, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	5.97	JAN 03	5.74	MAR 06	4.39	MAY 01	4.07	JUL 05	4.73

WATER YEAR 1995 HIGHEST 4.07 MAY 01, 1995 LOWEST 5.97 OCT 11, 1994



CITY OF VIRGINIA BEACH

363537076061002. Local number, 62A 3 SOW 097B.

LOCATION.--Lat 36°33'54", long 76°06'14", Hydrologic Unit 03010205, 0.2 mi south of Baum Road, 0.25 mi west of Craggs Causeway in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 24 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

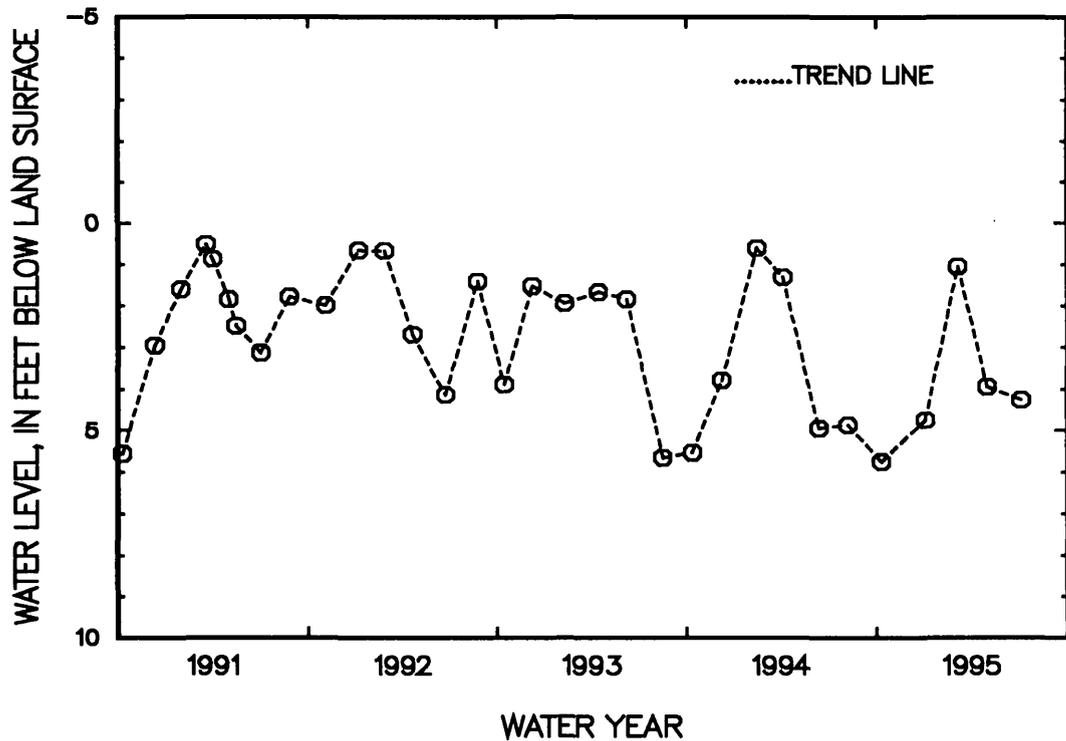
PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.50 ft below land-surface datum, Mar. 19, 1991; lowest measured, 6.50 ft below land-surface datum, Oct. 17, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	5.74	JAN 03	4.75	MAR 06	1.05	MAY 01	3.94	JUL 05	4.26

WATER YEAR 1995 HIGHEST 1.05 MAR 06, 1995 LOWEST 5.74 OCT 11, 1994



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364126076003501. Local number, 62B 1 SOW 098A.

LOCATION.--Lat 36°41'26", long 76°00'35", Hydrologic Unit 03010205, on north side of Pleasant Ridge Road at the Virginia Beach Mosquito Control shop, 0.9 mi east of Pleasant Ridge in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 24 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to Mar. 2, 1988; 1.05 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

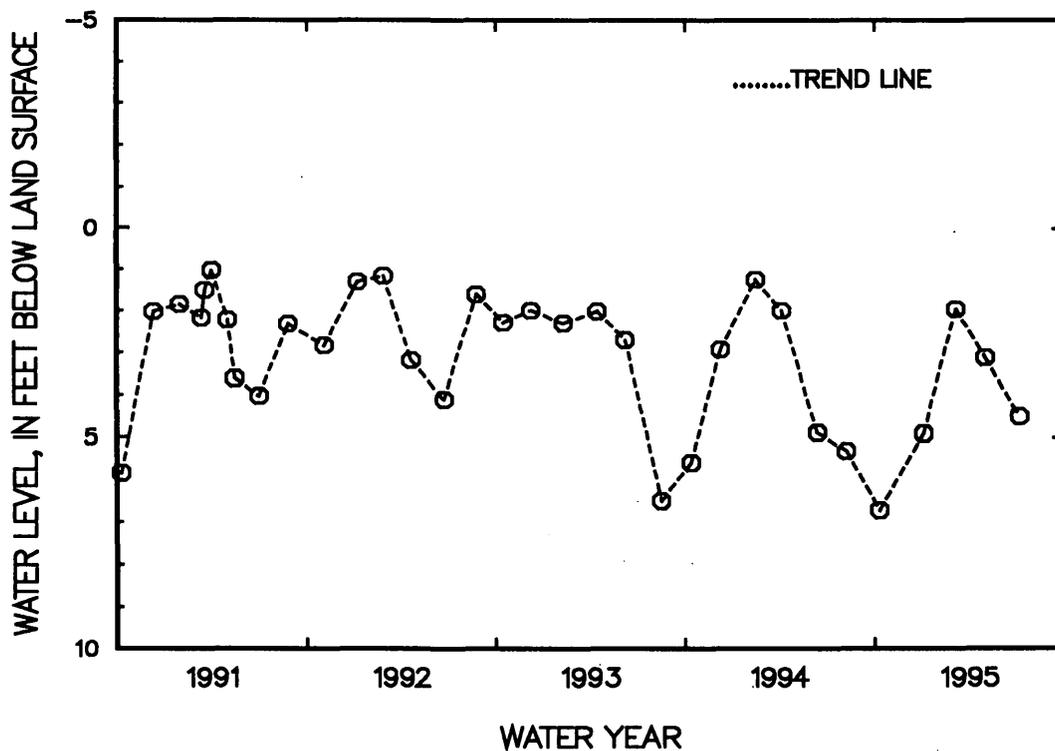
PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.02 ft below land-surface datum, Apr. 1, 1991; lowest measured, 11.95 ft below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	6.71	JAN 03	4.90	MAR 06	1.95	MAY 01	3.13	JUL 05	4.50

WATER YEAR 1995 HIGHEST 1.95 MAR 06, 1995 LOWEST 6.71 OCT 11, 1994



CITY OF VIRGINIA BEACH

364126076003502. Local number, 62B 2 SOW 098B.

LOCATION.--Lat 36°41'26", long 76°00'35", Hydrologic Unit 03010205, on north side of Pleasant Ridge Road at the Virginia Beach Mosquito Control shop, 0.9 mi east of Pleasant Ridge in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 98 ft, screened 88 to 98 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to Mar. 2, 1988; 1.2 ft above land-surface datum Mar. 3, 1988, to Dec. 9, 1994; 0.8 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

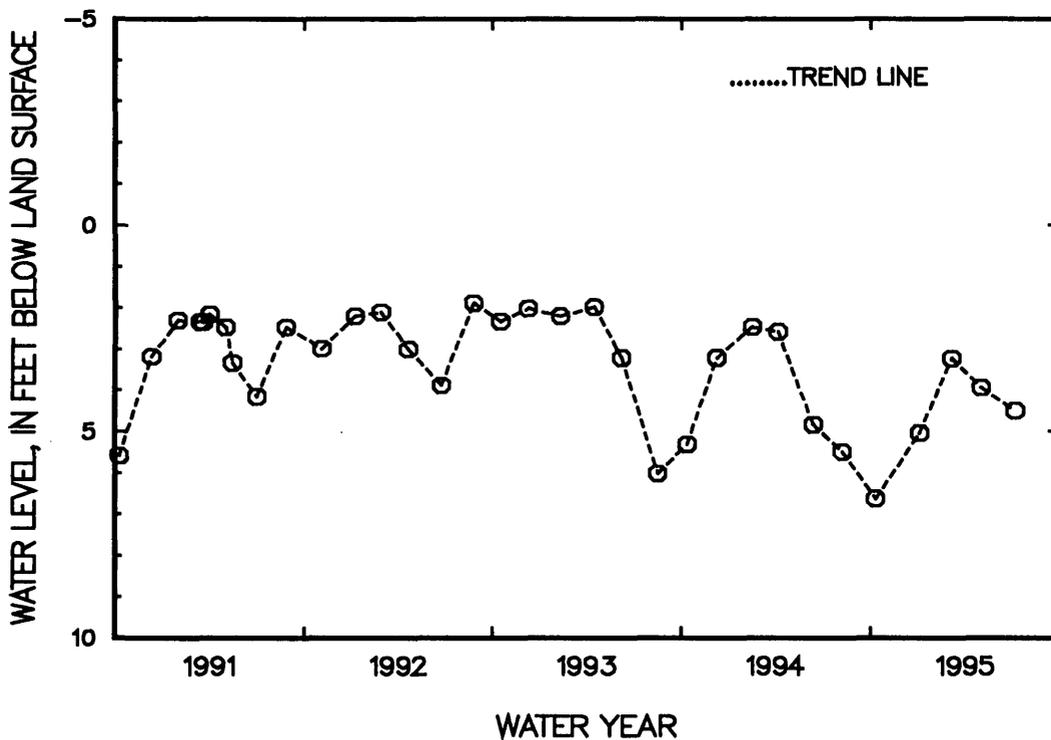
PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.70 ft below land-surface datum, Mar. 13, 1989, Jan. 10, 1990; lowest measured, 11.76 ft below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
OCT 11	6.64	JAN 03	5.05	MAR 06	3.24	MAY 01	3.95	JUL 05	4.52

WATER YEAR 1995 HIGHEST 3.24 MAR 06, 1995 LOWEST 6.64 OCT 11, 1994



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364713076030701. Local number, 62C 2 SOW 092A.

LOCATION.--Lat 36°47'15", long 76°03'08", Hydrologic Unit 03010205, at entrance to Oceana Naval Air Station on London Bridge Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 102 ft, screened 97 to 102 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.08 ft above land-surface datum prior to Mar. 2, 1988; 0.7 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

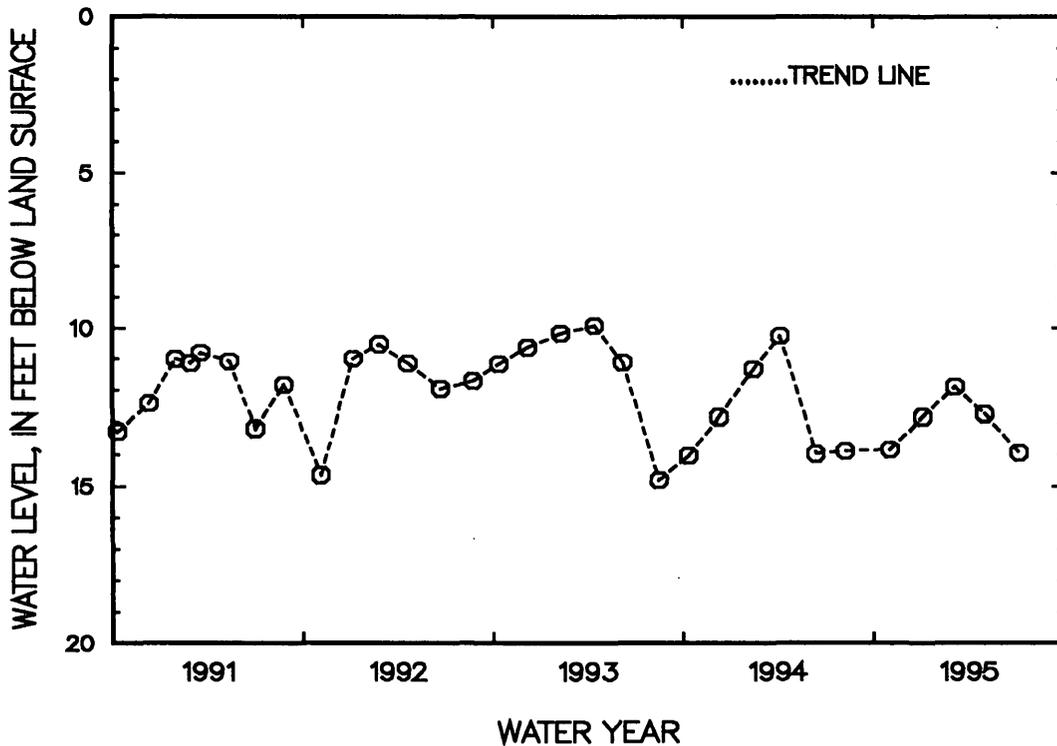
PERIOD OF RECORD.--December 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, Dec. 1, 1977; lowest measured, 15.29 ft below land-surface datum, July 17, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	13.83	JAN 03	12.84	MAR 06	11.89	MAY 01	12.75	JUL 05	13.94

WATER YEAR 1995 HIGHEST 11.89 MAR 06, 1995 LOWEST 13.94 JUL 05, 1995



CITY OF VIRGINIA BEACH

364715076030801. Local number, 62C 3 SOW 092B.

LOCATION.--Lat 36°47'15", long 76°03'08", Hydrologic Unit 03010205, at entrance to Oceana Naval Air Station on London Bridge Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 58 ft, screened 53 to 58 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 1.05 ft above land-surface datum prior to Mar. 2, 1988; 0.9 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

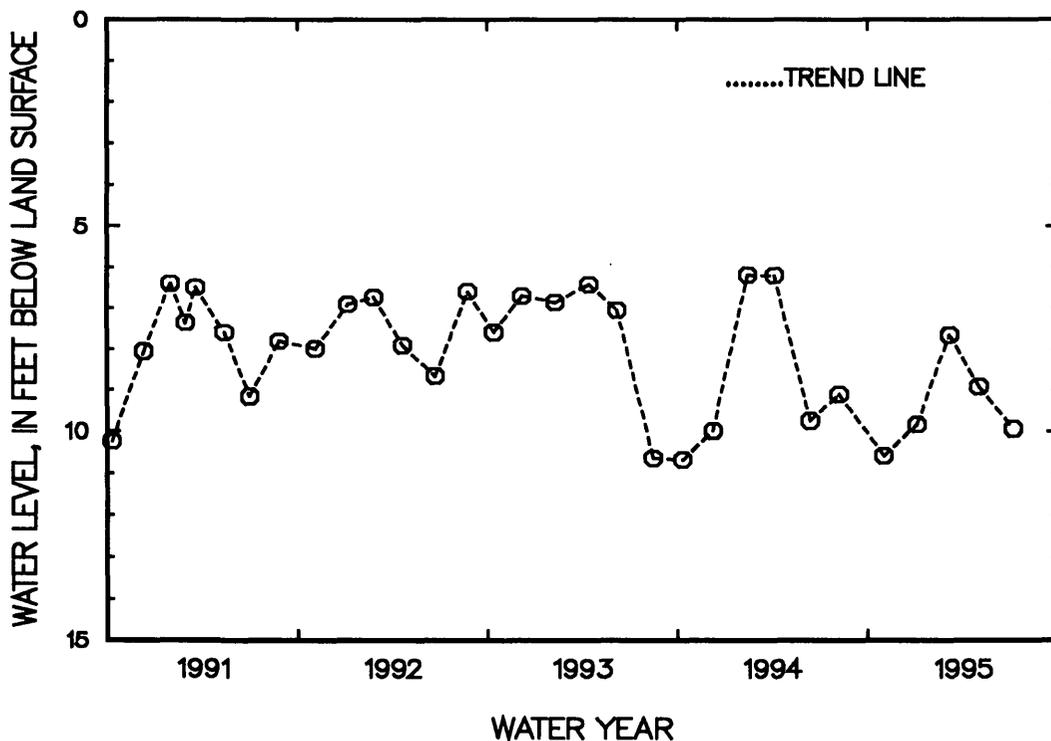
PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.36 ft below land-surface datum, Feb. 16, 1983; lowest measured, 11.07 ft below land-surface datum, Aug. 6, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	10.58	JAN 03	9.83	MAR 06	7.66	MAY 01	8.92	JUL 05	9.93

WATER YEAR 1995 HIGHEST 7.66 MAR 06, 1995 LOWEST 10.58 NOV 01, 1994



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364504076031301. Local number, 62C 5 SOW 093.

LOCATION.--Lat 36°45'04", long 76°03'13", Hydrologic Unit 03010205, 200 ft southeast of intersection of State Highways 149 and 165 in Princess Anne, in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 65 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 7 ft above sea level, from topographic map. Measuring point: Top of casing, 0.91 ft above land-surface datum prior to Mar. 2, 1988; 0.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

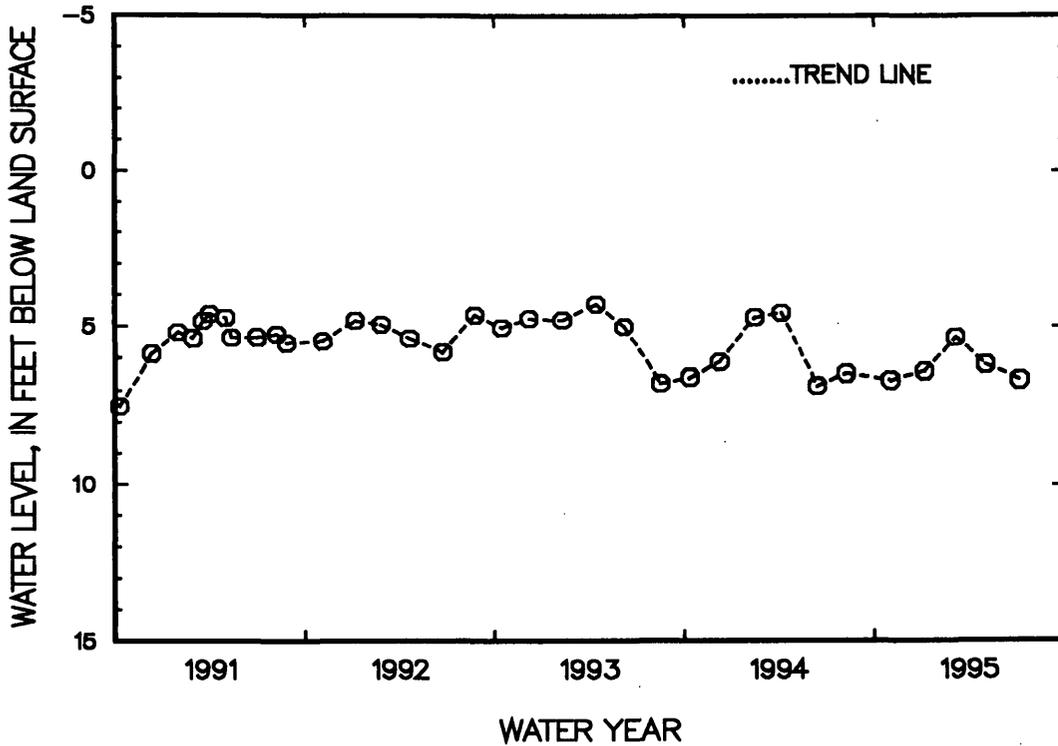
PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.84 ft below land-surface datum, Feb. 8, 1978; lowest measured, 7.88 ft below land-surface datum, Nov. 12, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	6.65	JAN 05	6.39	MAR 06	5.34	MAY 01	6.19	JUL 05	6.65

WATER YEAR 1995 HIGHEST 5.34 MAR 06, 1995 LOWEST 6.65 NOV 01, 1994 JUL 05, 1995



CITY OF VIRGINIA BEACH

365158076030401. Local number, 62C 6 SOW 125.

LOCATION.--Lat 36°51'58", long 76°03'04", Hydrologic Unit 02080108, at Trantwood Elementary School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 57 ft, screened 52 to 57 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

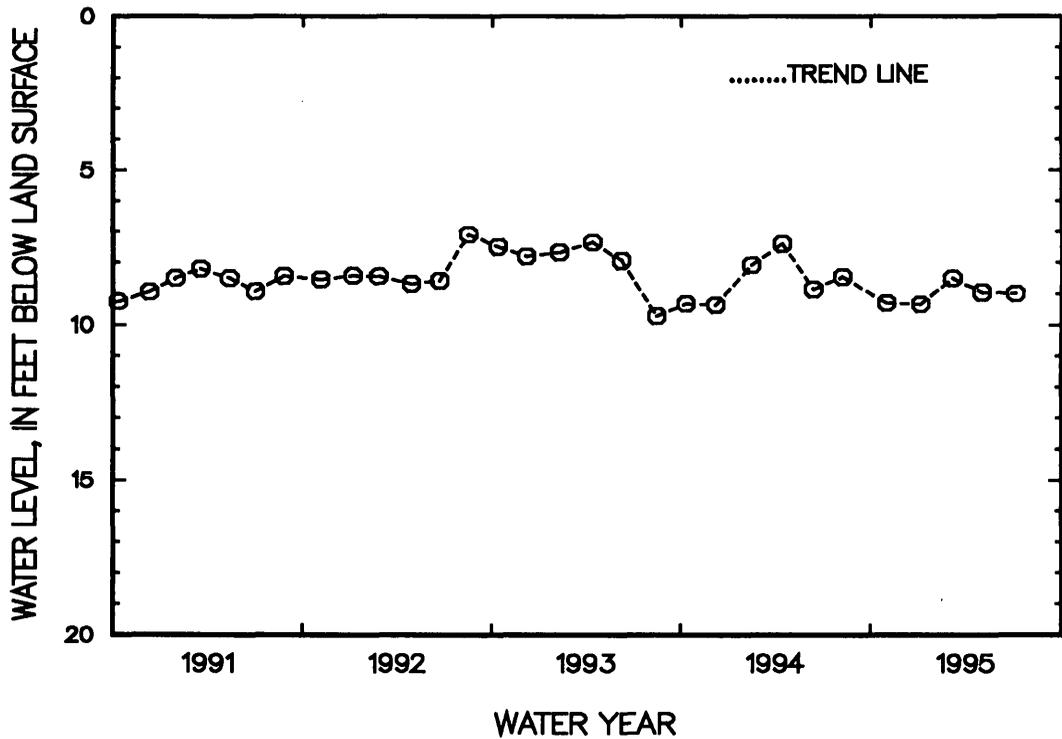
PERIOD OF RECORD.--April 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.86 ft below land-surface datum, Feb. 28, 1979; lowest measured, 11.19 ft below land-surface datum, July 17, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	9.29	JAN 05	9.33	MAR 07	8.50	MAY 02	8.95	JUL 05	8.99

WATER YEAR 1995 HIGHEST 8.50 MAR 07, 1995 LOWEST 9.33 JAN 05, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364906076043901. Local number, 62C 7 SOW 126.

LOCATION.--Lat 36°49'06", long 76°04'39", Hydrologic Unit 02080108, at Plaza Elementary School in Virginia Beach.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 67 ft, screened 55 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 18, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above sea level, from topographic map. Measuring point: Top of casing, 0.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

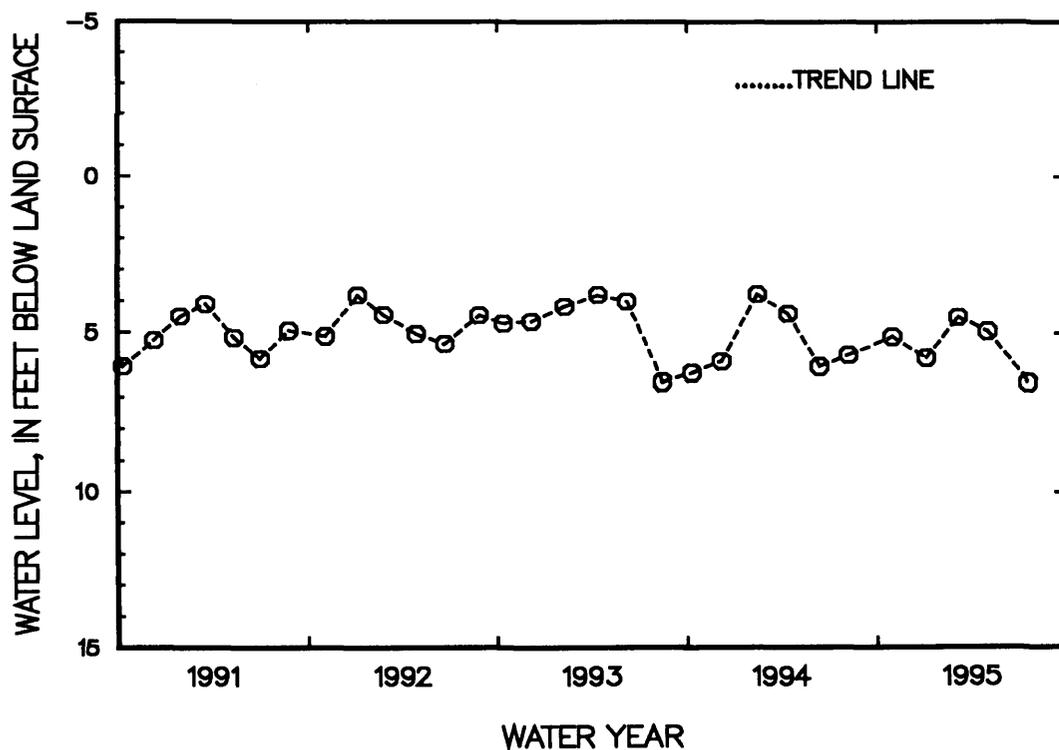
PERIOD OF RECORD.--April 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.84 ft below land-surface datum, Feb. 16, 1983; lowest measured, 7.32 ft below land-surface datum, July 17, 1986, Nov. 19, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	5.12	JAN 05	5.79	MAR 07	4.50	MAY 02	4.95	JUL 18	6.54

WATER YEAR 1995 HIGHEST 4.50 MAR 07, 1995 LOWEST 6.54 JUL 18, 1995



CITY OF VIRGINIA BEACH

364745076004301. Local number, 62C 9 SOW 172A.

LOCATION.--Lat 36°47'45", long 76°00'43", Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 170 ft, screened 155 to 165 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

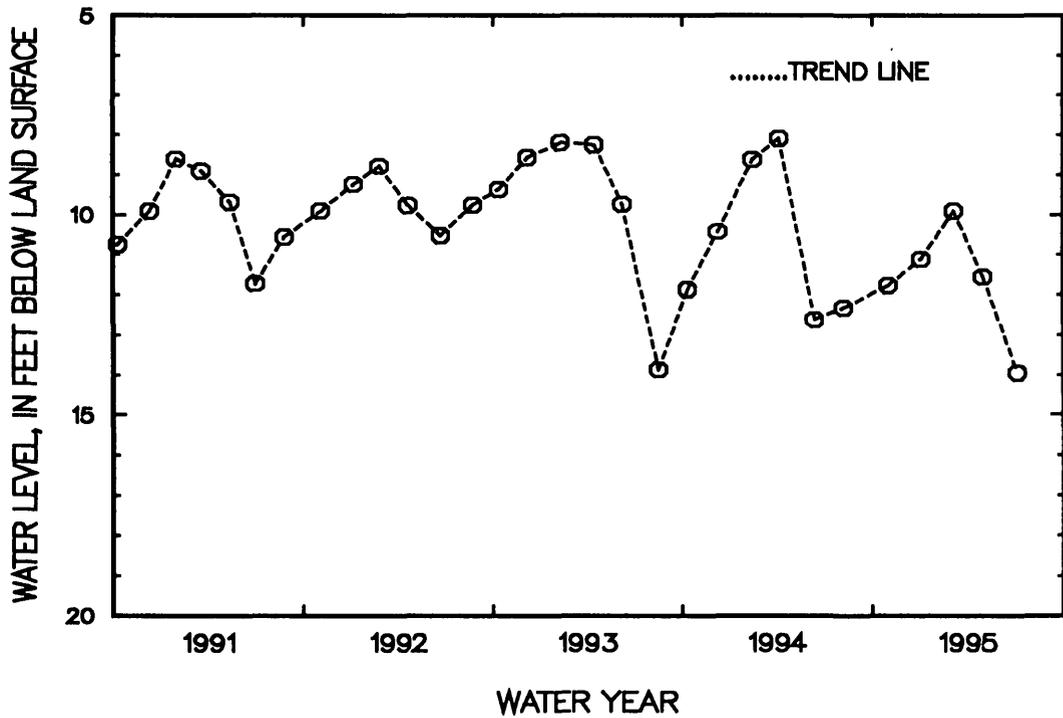
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.46 ft below land-surface datum, Apr. 25, 1984; lowest measured, 13.96 ft below land-surface datum, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	11.77	JAN 03	11.11	MAR 06	9.91	MAY 01	11.55	JUL 05	13.96

WATER YEAR 1995 HIGHEST 9.91 MAR 06, 1995 LOWEST 13.96 JUL 05, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364745076004302. Local number, 62C 10 SOW 172B.

LOCATION.--Lat 36°47'45", long 76°00'43", Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 280 ft, screened 270 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

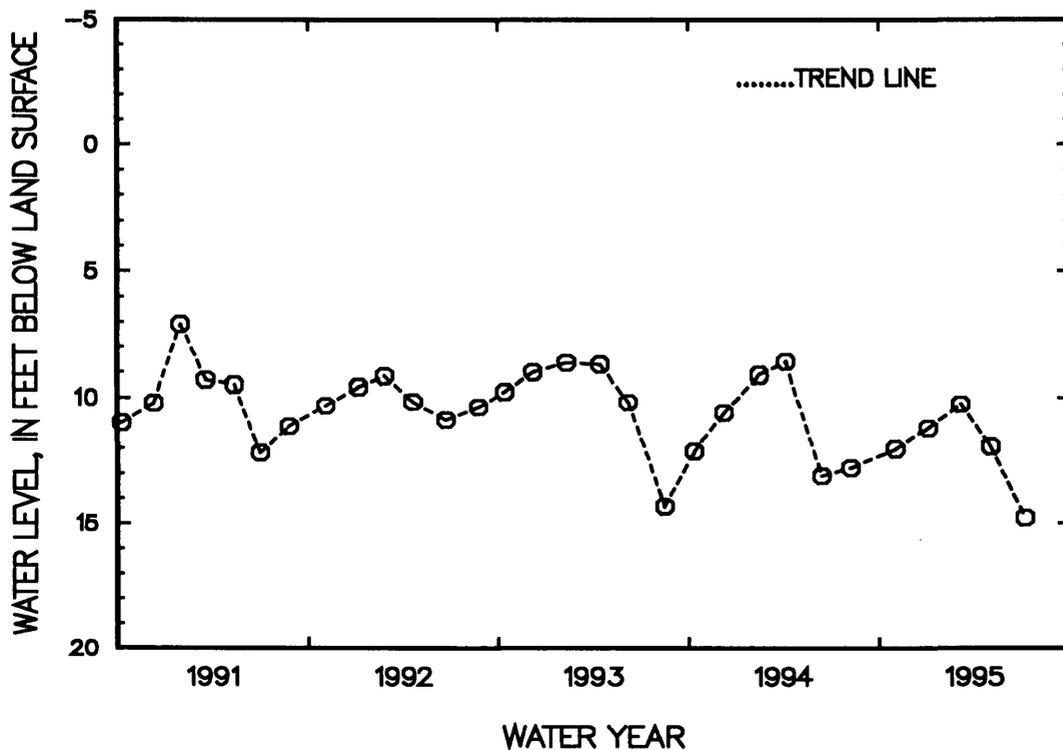
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft below land-surface datum, Jan. 30, 1991; lowest measured, 14.78 ft below land-surface datum, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	12.05	JAN 03	11.22	MAR 06	10.26	MAY 01	11.95	JUL 05	14.78

WATER YEAR 1995 HIGHEST 10.26 MAR 06, 1995 LOWEST 14.78 JUL 05, 1995



CITY OF VIRGINIA BEACH

364745076004303. Local number, 62C 11 SOW 172C.

LOCATION.--Lat 36°47'45", long 76°00'43", Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 35 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

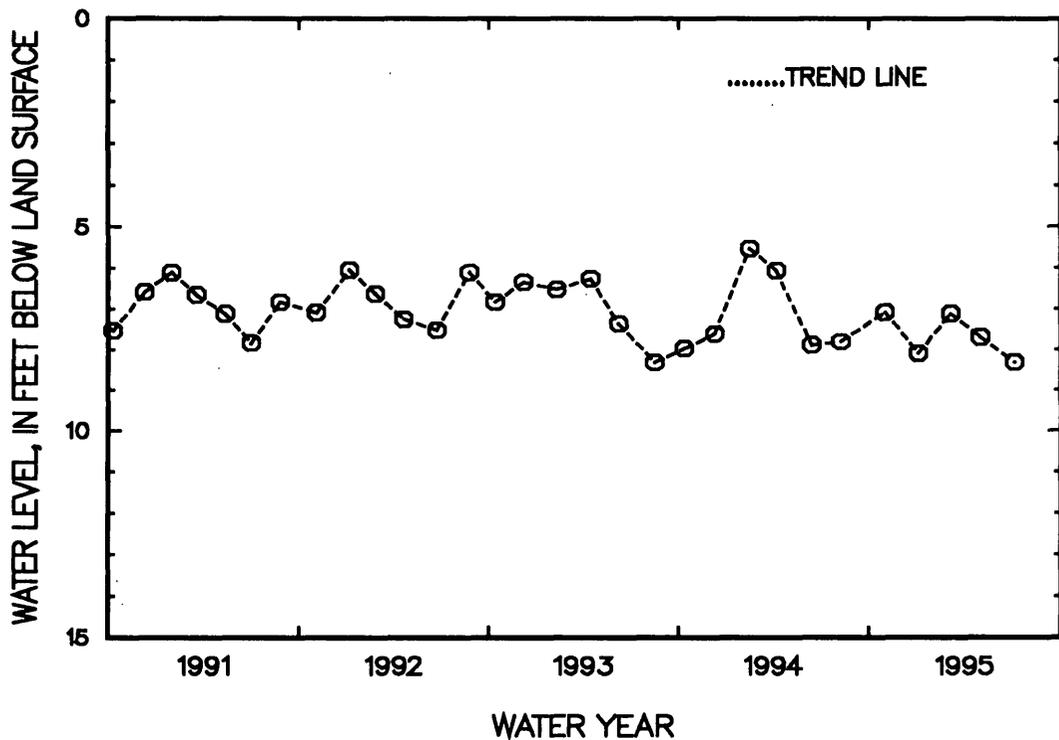
PERIOD OF RECORD.--May 1984 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.89 ft below land-surface datum, Feb. 28, 1985; lowest measured, 8.32 ft below land-surface datum, Aug. 16, 1993, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	7.09	JAN 03	8.10	MAR 06	7.12	MAY 01	7.70	JUL 05	8.32

WATER YEAR 1995 HIGHEST 7.09 NOV 01, 1994 LOWEST 8.32 JUL 05, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364745076004304. Local number, 62C 12 SOW 172D.

LOCATION.--Lat 36°47'45", long 76°00'43", Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 75 ft, screened 60 to 70 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

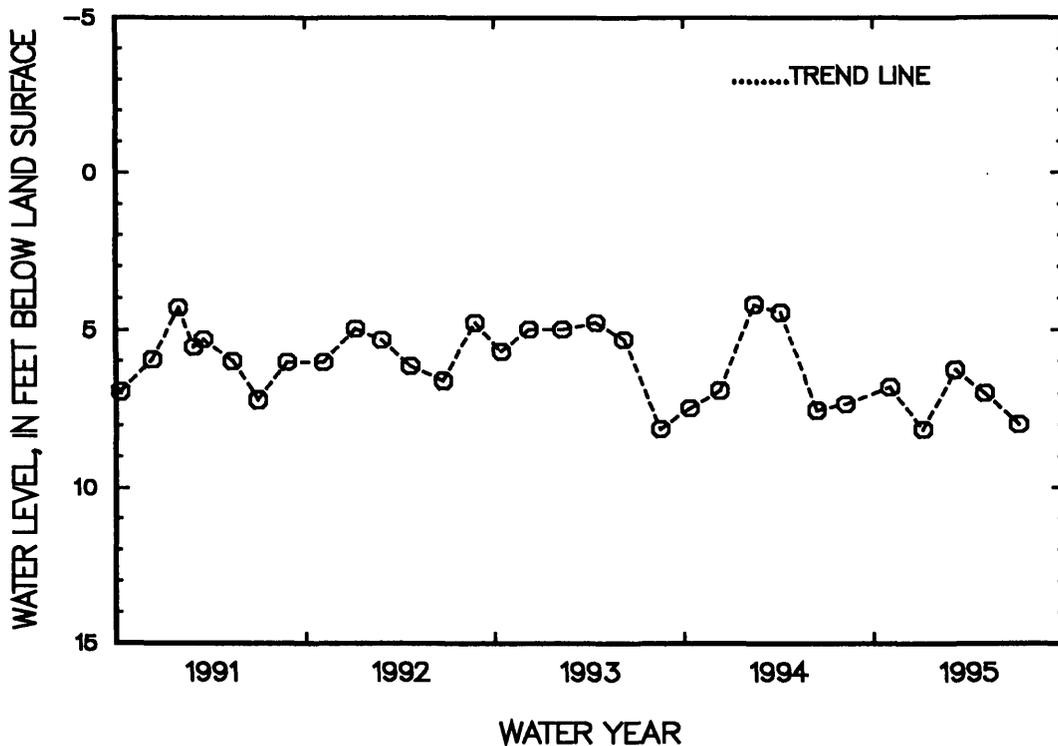
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.56 ft below land-surface datum, Apr. 25, 1984; lowest measured, 8.14 ft below land-surface datum, Jan. 3, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	6.79	JAN 03	8.14	MAR 06	6.27	MAY 01	6.97	JUL 05	7.98

WATER YEAR 1995 HIGHEST 6.27 MAR 06, 1995 LOWEST 8.14 JAN 03, 1995



CITY OF VIRGINIA BEACH

364613075583201. Local number, 63C 2 SOW 100B.

LOCATION.--Lat 36°46'13", long 75°58'32", Hydrologic Unit 03010205, at Hampton Roads Sanitary District sludge disposal site off Old Dam Neck Road, 1.7 mi southeast of intersection of Oceana Boulevard and Old Dam Neck Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 1.25 in., depth 54 ft, screened 49 to 54 ft..

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above sea level, from topographic map. Measuring point: Top of casing, 2.85 ft above land-surface datum.

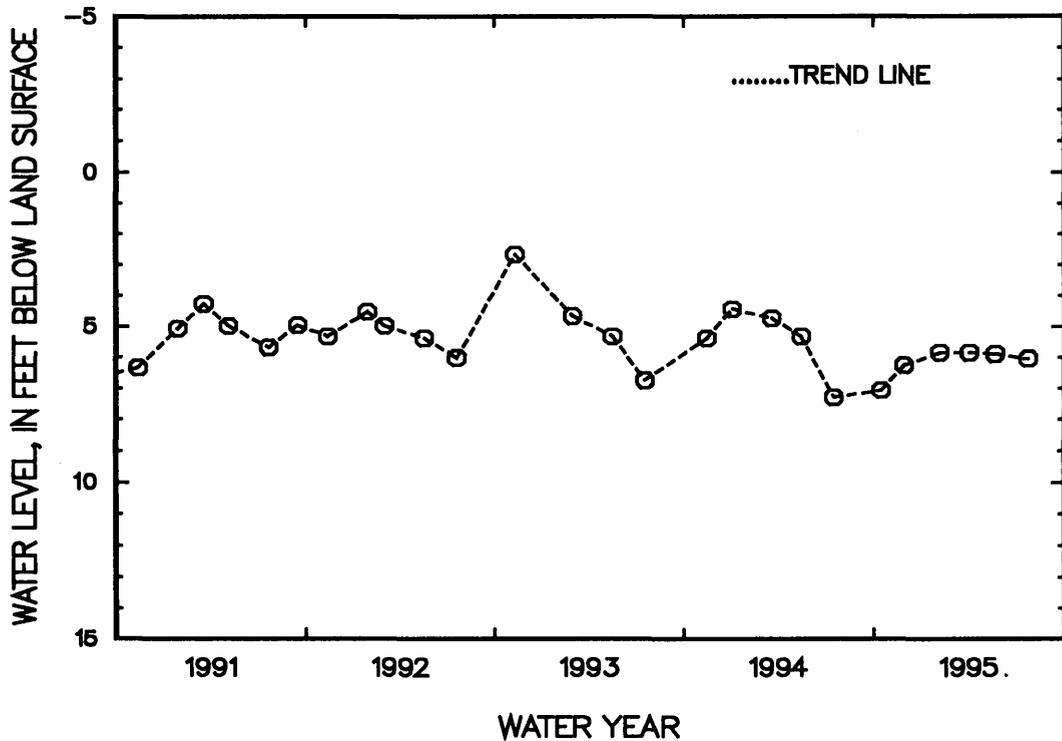
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.66 ft below land-surface datum, Nov. 10, 1992; lowest measured, 10.58 ft below land-surface datum, Mar. 20, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	7.06	NOV 30	6.24	FEB 06	5.84	APR 03	5.84	MAY 22	5.88	JUL 24	6.04
WATER YEAR 1995		HIGHEST 5.84 FEB 06, APR 03, 1995		LOWEST 7.06		OCT 17, 1994					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364613075583202. Local number, 63C 3 SOW 100C.

LOCATION.--Lat 36°46'13", long 75°58'32", Hydrologic Unit 03010205, at Hampton Roads Sanitary District sludge disposal site off Old Dam Neck Road, 1.7 mi southeast of intersection of Oceana Boulevard and Old Dam Neck Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 1.25 in., depth 35 ft, screened 30 to 35 ft.

INSTRUMENTATION.--Bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above sea level, from topographic map. Measuring point: Top of casing, 2.63 ft above land-surface datum.

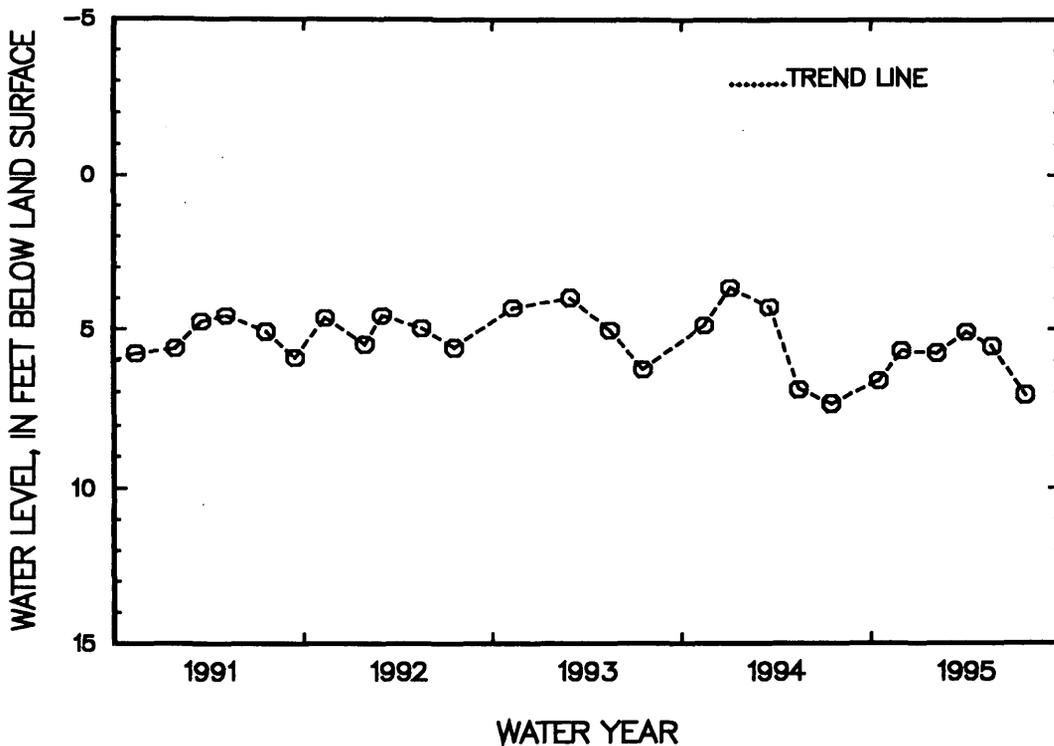
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.63 ft below land-surface datum, Jan. 4, 1994; lowest measured, 12.35 ft below land-surface datum, Apr. 20, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	6.62	NOV 30	5.67	FEB 06	5.74	APR 03	5.08	MAY 22	5.54	JUL 24	7.08
WATER YEAR 1995		HIGHEST	5.08	APR 03, 1995		LOWEST	7.08	JUL 24, 1995			



CITY OF VIRGINIA BEACH

364722075591801. Local number, 63C 4 SOW 173A.

LOCATION.--Lat 36°47'22", long 75°59'18", Hydrologic Unit 02080108, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 291 ft, screened 281 to 291 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

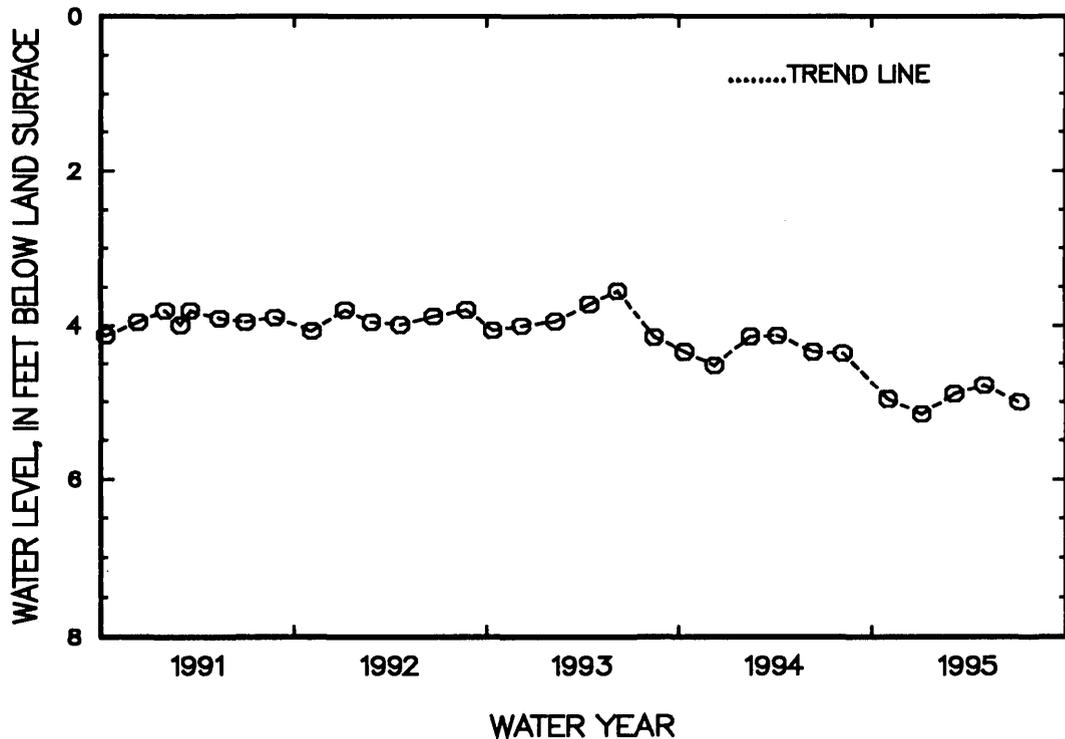
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.10 ft below land-surface datum, June 21, 1989; lowest measured, 5.16 ft below land-surface datum, Jan. 3, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	4.96	JAN 03	5.16	MAR 06	4.89	MAY 01	4.78	JUL 05	5.00

WATER YEAR 1995 HIGHEST 4.78 MAY 01, 1995 LOWEST 5.16 JAN 03, 1995



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH

364722075591802. Local number, 63C 5 SOW 173B.

LOCATION.--Lat 36°47'22", long 75°59'18", Hydrologic Unit 02080108, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 95 ft, screened 80 to 90 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 9 ft above sea level, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

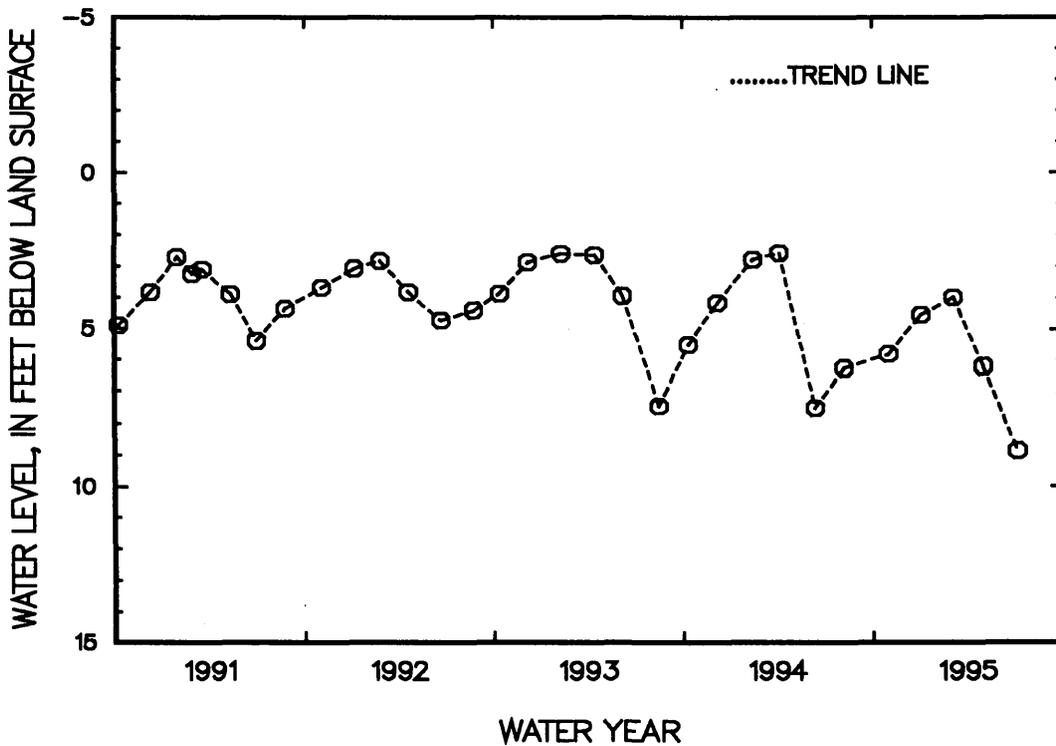
PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, Apr. 20, 1989; lowest measured, 8.86 ft below land-surface datum, July 5, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 01	5.81	JAN 03	4.55	MAR 06	3.99	MAY 01	6.19	JUL 05	8.86

WATER YEAR 1995 HIGHEST 3.99 MAR 06, 1995 LOWEST 8.86 JUL 05, 1995



WESTMORELAND COUNTY

381110076550501. Local number, 55P 5.

LOCATION.--Lat 38°11'10", long 76°55'05", Hydrologic Unit 02070011, behind craft shop at George Washington Birthplace National Monument, 3.8 mi southeast of Colonial Beach. Owner: National Park Service.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 471 ft, screened 451 to 466 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to Apr. 24, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 24 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 3.0 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--June 1974 to current year.

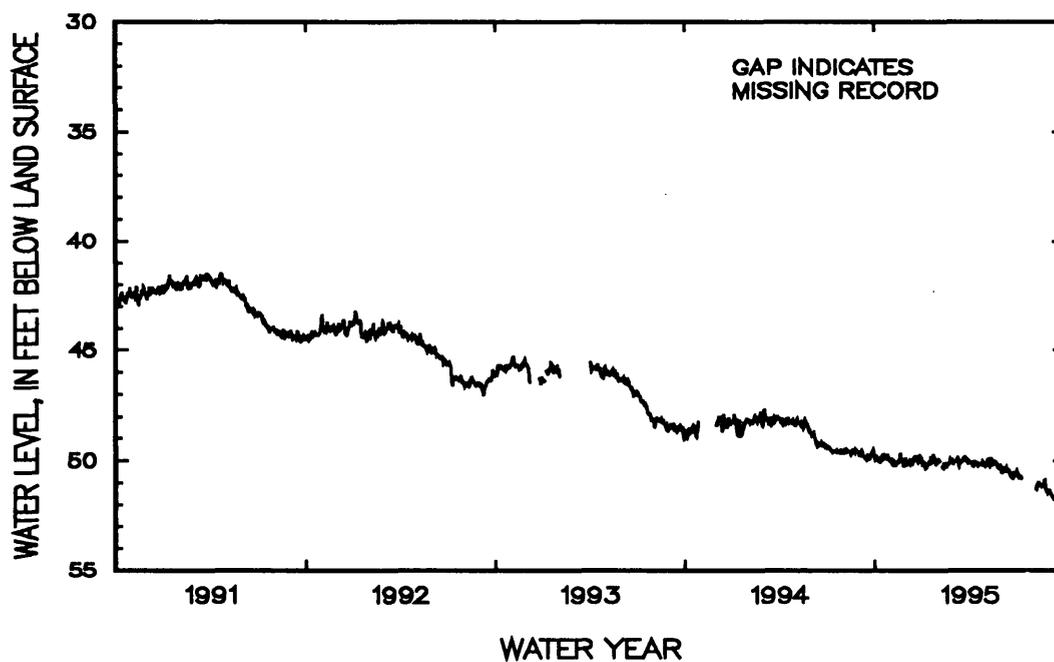
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.05 ft below land-surface datum, June 24, 1974; lowest recorded, 52.23 ft below land-surface datum, Feb. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.95	50.14	50.08	50.35	---	50.02	50.27	49.99	50.49	50.70	51.25	51.67
10	50.07	50.18	49.99	50.18	50.17	50.25	50.17	49.88	50.43	---	51.10	51.81
15	49.76	50.00	49.83	49.93	50.26	50.04	50.25	50.06	50.63	---	51.13	51.95
20	49.79	50.02	49.99	49.73	50.07	49.93	50.16	50.13	50.79	---	50.87	51.61
25	49.81	50.18	49.79	50.20	50.13	50.04	50.10	50.36	50.67	---	51.43	51.65
EOM	50.02	50.13	50.14	50.04	50.08	50.10	50.23	50.55	50.59	---	51.47	51.61

WATER YEAR 1995 HIGHEST INSTANTANEOUS 49.16 JAN 20, 1995 LOWEST INSTANTANEOUS 51.95 SEP 15, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

WESTMORELAND COUNTY

381132076551001. Local number, 55P 9.

LOCATION.--Lat 38°11'32", long 76°55'10", Hydrologic Unit 02070011, at George Washington Birthplace National Monument, 500 ft east of park road, 0.6 mi north of the end of State Highway 204, and 3.4 mi southeast of Colonial Beach. Owner: National Park Service.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 36 in., depth 22.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17 ft above sea level, from topographic map. Measuring point: Top of concrete lip on casing, 1.65 ft above land-surface datum.

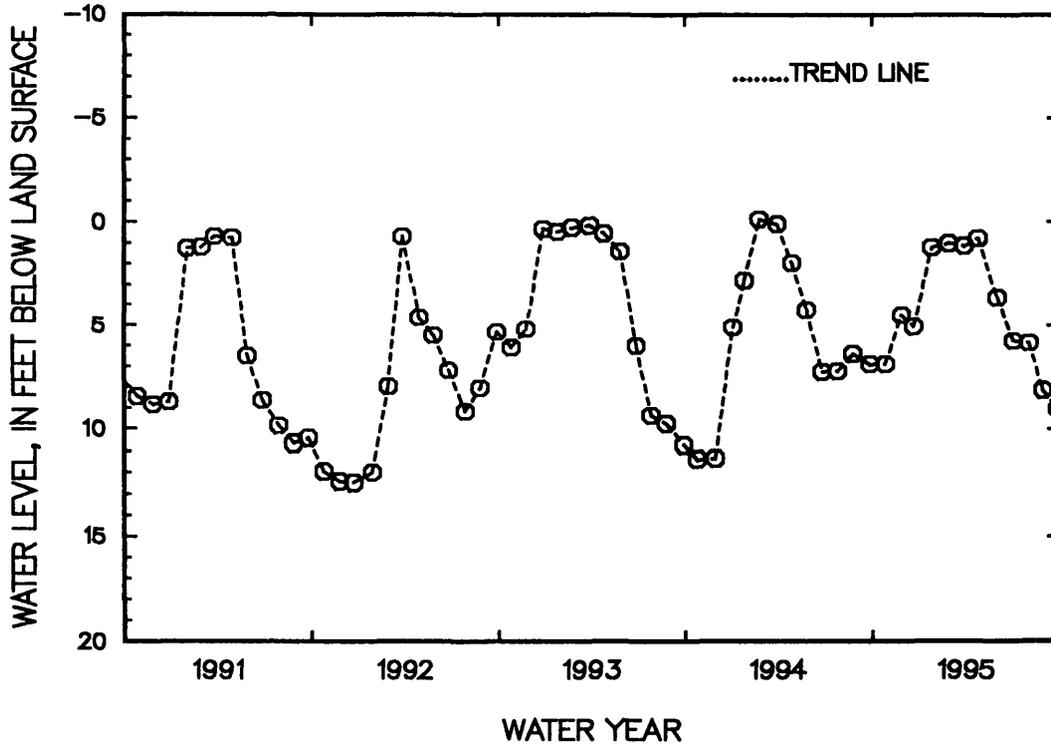
PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.13 ft above land-surface datum, Feb. 24, 1994; lowest measured, 12.80 ft below land-surface datum, Dec. 27, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL										
OCT 28	6.88	DEC 22	5.04	FEB 28	1.02	APR 26	0.78	JUL 03	5.75	AUG 28	8.12
NOV 28	4.48	JAN 26	1.22	MAR 30	1.15	JUN 01	3.65	AUG 02	5.85	SEP 25	9.03

WATER YEAR 1995 HIGHEST 0.78 APR 26, 1995 LOWEST 9.03 SEP 25, 1995



WESTMORELAND COUNTY

381530076584401. Local number, 55Q 2.

LOCATION.--Lat 38°15'30", long 76°58'44", Hydrologic Unit 02070011, 200 ft southwest of State Highway 205 (McKinney Boulevard) at Colonial Beach and 0.3 mi northwest of the intersection of State Highways 205 (McKinney Boulevard) and 632. Owner: Darl Concrete and Contracting Company.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 210 ft, diameter 2 in. from 210 to 890 ft, depth 890 ft, screened 844 to 874 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 24 ft above sea level, from topographic map. Measuring point: Top of 0.75 in. nipple in top of casing, 2.8 ft above land-surface datum. Prior to Dec. 10, 1974, measuring point was top of casing, 2.2 ft above land-surface datum.

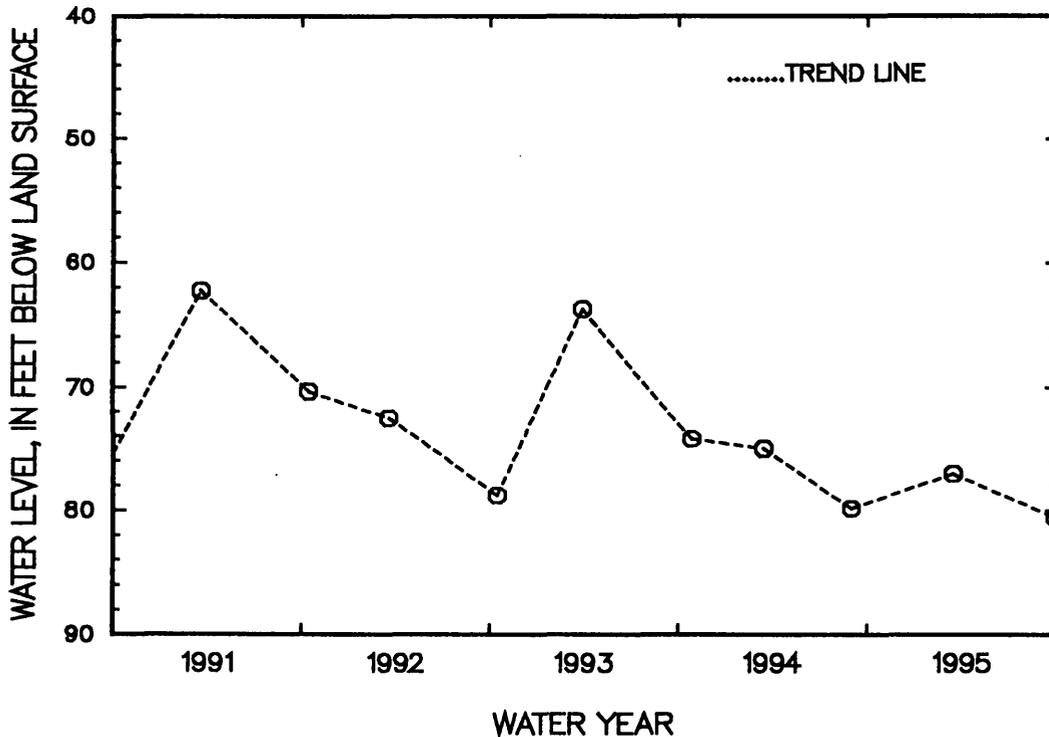
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1971 to September 1995 (discontinued). Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.37 ft below land-surface datum, Dec. 10, 1971; lowest measured, 80.59 ft below land-surface datum, Sept. 25, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	DATE	WATER LEVEL	DATE	WATER LEVEL		
	MAR 14	77.03	SEP 25	80.59		
WATER YEAR 1995	HIGHEST	77.03	MAR 14, 1995	LOWEST	80.59	SEP 25, 1995



GROUND-WATER LEVELS

WESTMORELAND COUNTY

380538076490801. Local number, 56N 1 SOW 016.

LOCATION.--Lat 38°05'38", long 76°49'08", Hydrologic Unit 02080104, at Washington and Lee School, 0.5 mi east of Montross. Owner: Westmoreland County Public Schools.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in. to 189 ft, diameter 2 in. from 189 to 641 ft, depth 641 ft, screened 608 to 628 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Mar. 31, 1979, to Oct. 2, 1985, occasional measurement with chalked tape. Prior to Mar. 31, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 149 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

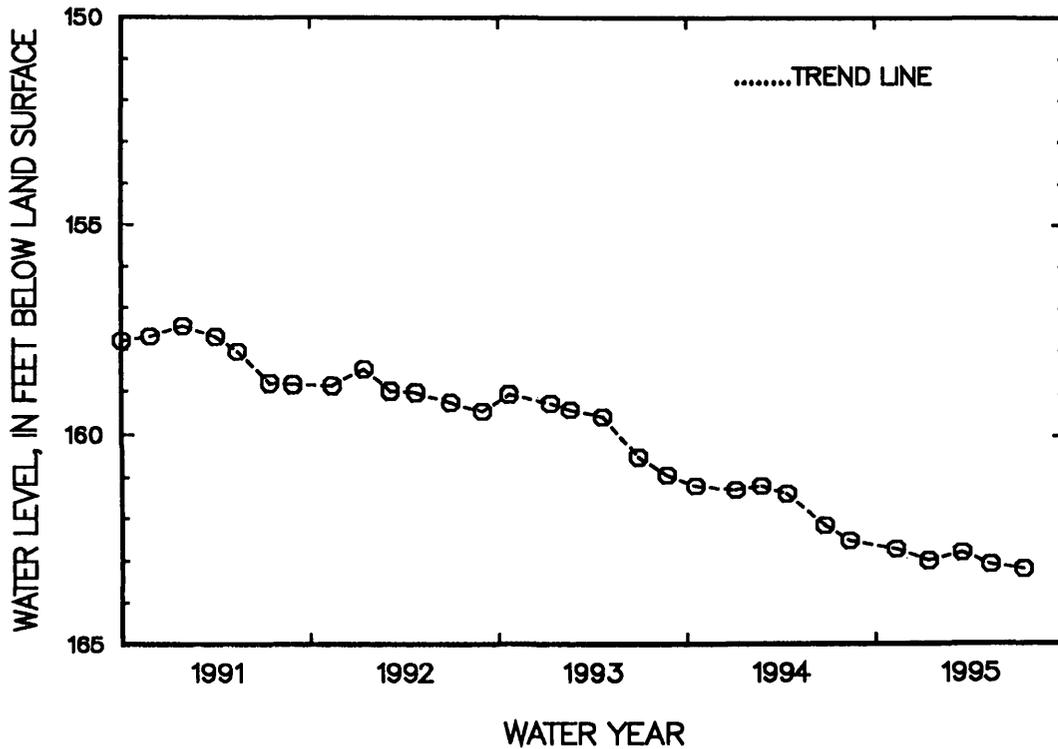
PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 133.47 ft below land-surface datum, Aug. 28, 1967; lowest measured, 163.19 ft below land-surface datum, July 11, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 09	162.71	JAN 10	162.99	MAR 15	162.79	MAY 09	163.08	JUL 11	163.19

WATER YEAR 1995 HIGHEST 162.71 NOV 09, 1994 LOWEST 163.19 JUL 11, 1995



YORK COUNTY

371916076375901. Local number, 57G 2.

LOCATION.--Lat 37°19'16", long 76°37'59", Hydrologic Unit 02080107, at Building 3101 on Camp Peary Naval Reservation, 3.3 mi northeast of Williamsburg. Owner: U.S. Department of the Navy.

AQUIFER.--Sand and gravel of undifferentiated Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in. to 352 ft, diameter 8 in. from 352 to 387 ft, depth 387 ft, screen depth unknown.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 15 ft above sea level, from topographic map. Measuring point: Top of casing, 0.2 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--January 1968 to September 1995 (discontinued).

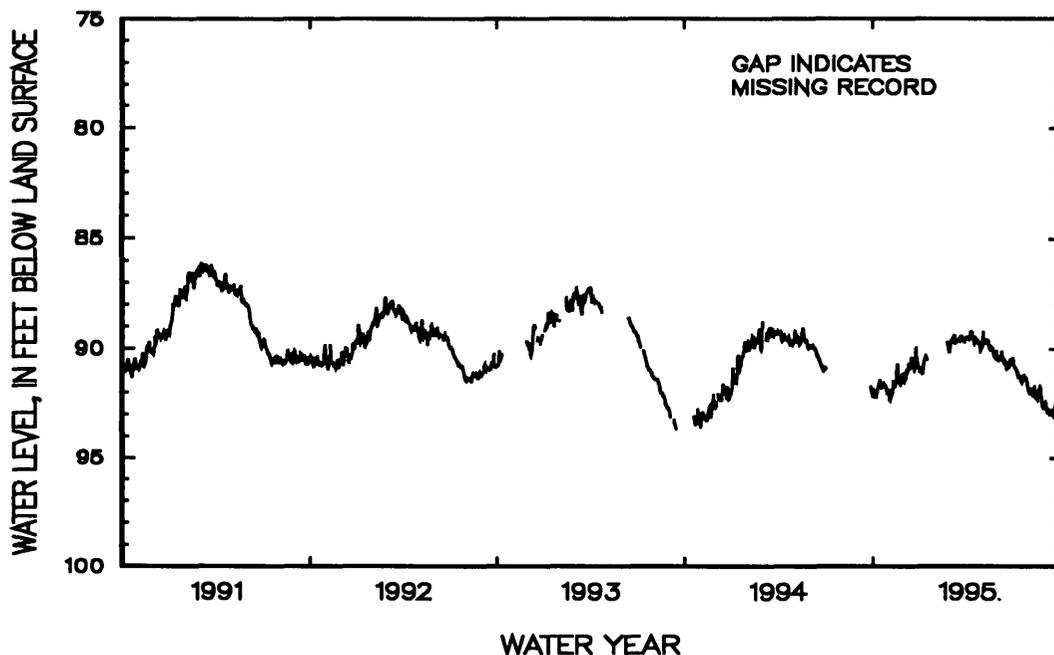
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 43.09 ft below land-surface datum, Mar. 7, 1968; lowest recorded, 93.65 ft below land-surface datum, Sept. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.04	92.16	91.05	91.12	---	89.60	89.57	89.52	90.42	91.00	92.14	92.90
10	91.93	91.54	90.69	90.45	---	89.70	89.31	89.55	90.55	91.22	92.23	92.82
15	91.41	91.48	90.37	---	---	89.59	89.76	89.83	90.71	91.55	92.21	92.90
20	91.77	91.42	90.86	---	---	89.48	89.62	89.96	90.84	91.29	91.80	92.64
25	91.70	91.59	90.34	---	90.05	89.61	89.68	90.42	90.59	91.54	92.75	92.79
EOM	92.06	91.42	91.07	---	89.86	89.46	89.91	90.51	90.81	91.98	92.74	92.64

WATER YEAR 1995 HIGHEST INSTANTANEOUS 88.32 MAR 17, 1995 LOWEST INSTANTANEOUS 93.10 SEP 14, 1995

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

YORK COUNTY

371654076401601. Local number, 57G 17 SOW 068.

LOCATION.--Lat 37°16'54", long 76°40'16", Hydrologic Unit 02080107, 250 ft east of State Highway 716 at Parkway Estates, 0.5 mi east of Williamsburg. Owner: Sydnor Hydrodynamics.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age and Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 452.3 ft, screened 411 to 426 ft, 442.2 to 452.3 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Apr. 30, 1978, to Sept. 30, 1985, occasional measurement with chalked tape. Jan. 15, 1974, to Apr. 30, 1978, continuous strip-chart recorder. Prior to Jan. 15, 1974, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 60 ft above sea level, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

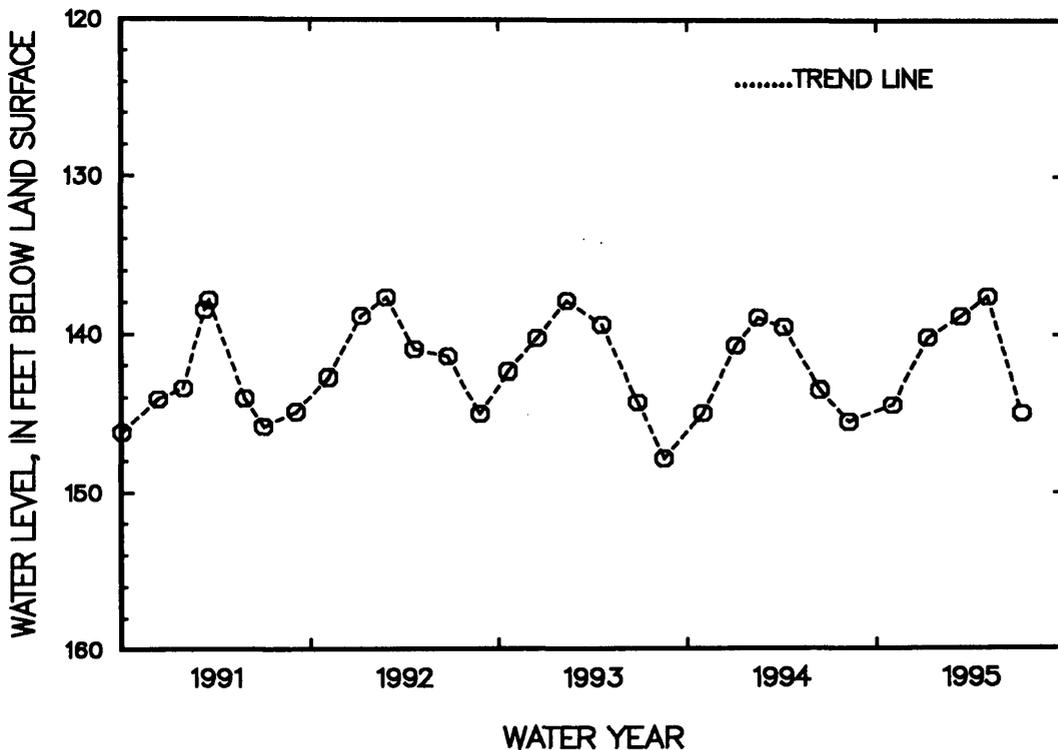
PERIOD OF RECORD.--November 1972 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.09 ft below land-surface datum, Nov. 22, 1972; lowest measured, 148.26 ft below land-surface datum, Aug. 11, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	144.41	JAN 09	140.19	MAR 13	138.85	MAY 04	137.60	JUL 07	144.94

WATER YEAR 1995 HIGHEST 137.60 MAY 04, 1995 LOWEST 144.94 JUL 07, 1995



YORK COUNTY

371735076391501. Local number, 57G 19 SOW 069.

LOCATION.--Lat 37°17'35", long 76°39'15", Hydrologic Unit 02080107, 250 ft east of State Highway 716 at Queens Lake Subdivision, 1.6 mi east of Williamsburg. Owner: Sydnor Hydrodynamics.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age and Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 515 ft, screened 420 to 430 ft, 445 to 460 ft, 505 to 515 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Apr. 30, 1979, to Sept. 30, 1985, occasional measurement with chalked tape. July 31, 1974, to Apr. 30, 1979, continuous strip-chart recorder. Prior to July 31, 1974, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 64 ft above sea level, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum prior to Aug. 14, 1990; 2.05 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

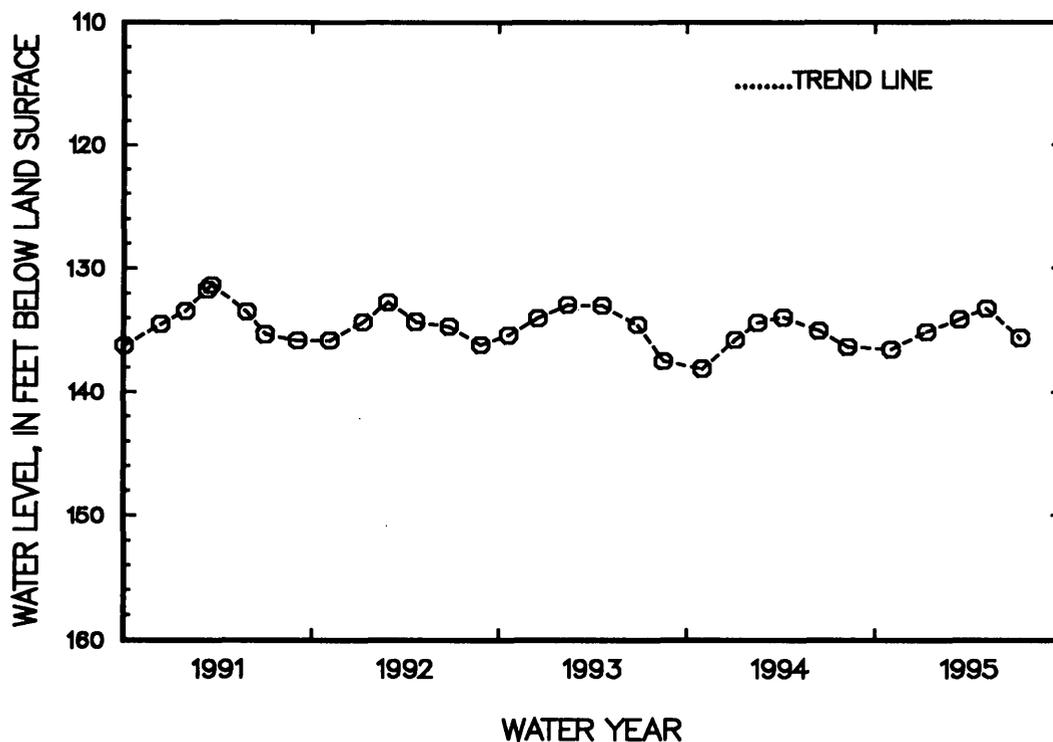
PERIOD OF RECORD.--November 1972 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.95 ft below land-surface datum, Nov. 29, 1972; lowest measured, 138.08 ft below land-surface datum, Nov. 1, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	136.53	JAN 09	135.12	MAR 13	134.13	MAY 04	133.28	JUL 07	135.62

WATER YEAR 1995 HIGHEST 133.28 MAY 04, 1995 LOWEST 136.53 NOV 02, 1994



GROUND-WATER LEVELS

YORK COUNTY

371045076310702. Local number, 58F 62 SOW 187A.

LOCATION.--Lat 37°10'45", long 76°31'07", Hydrologic Unit 02080206, 300 ft north of State Highway 105, 1.8 mi east of intersection of State Highways 105 and 143, and 3.1 mi southeast of Lee Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Eastover-Calvert confining unit of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 140 ft, screened 120 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 10, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

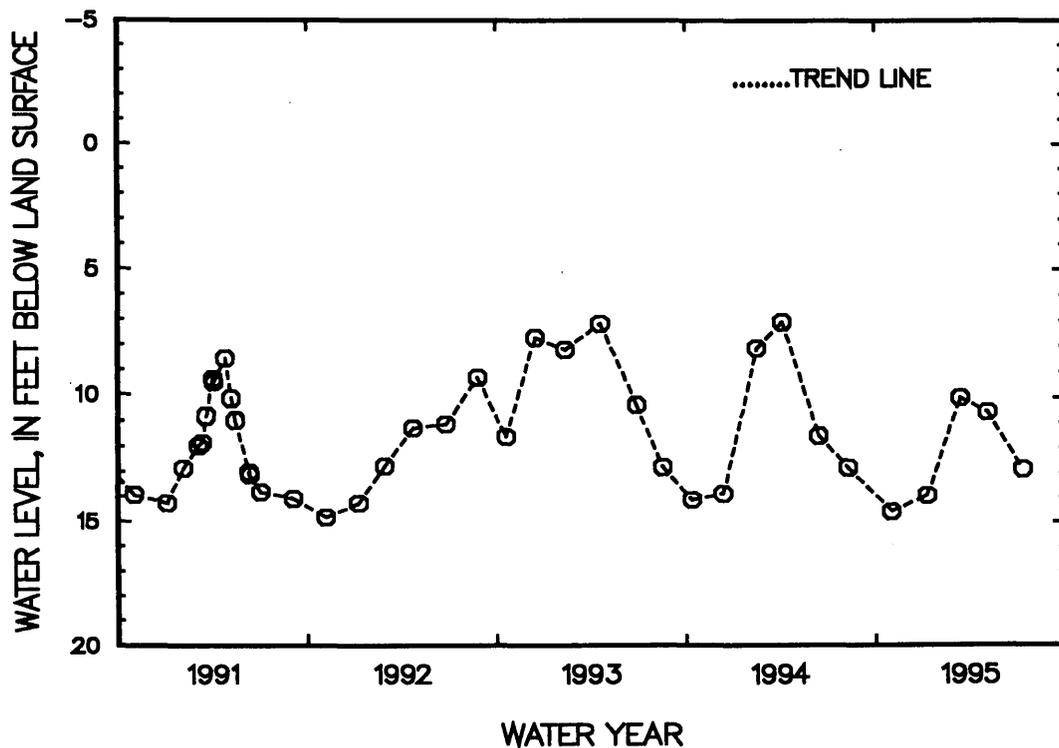
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.08 ft below land-surface datum, Apr. 6, 1994; lowest measured, 14.83 ft below land-surface datum, Nov. 6, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	14.56	JAN 09	13.92	MAR 13	10.00	MAY 04	10.57	JUL 10	12.84

WATER YEAR 1995 HIGHEST 10.00 MAR 13, 1995 LOWEST 14.56 NOV 02, 1994



YORK COUNTY

371045076310703. Local number, 58F 63 SOW 187B.

LOCATION.--Lat 37°10'45", long 76°31'07", Hydrologic Unit 02080206, 300 ft north of State Highway 105, 1.8 mi east of intersection of State Highways 105 and 143, and 3.1 mi southeast of Lee Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 28 ft, screened 18 to 28 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 10, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

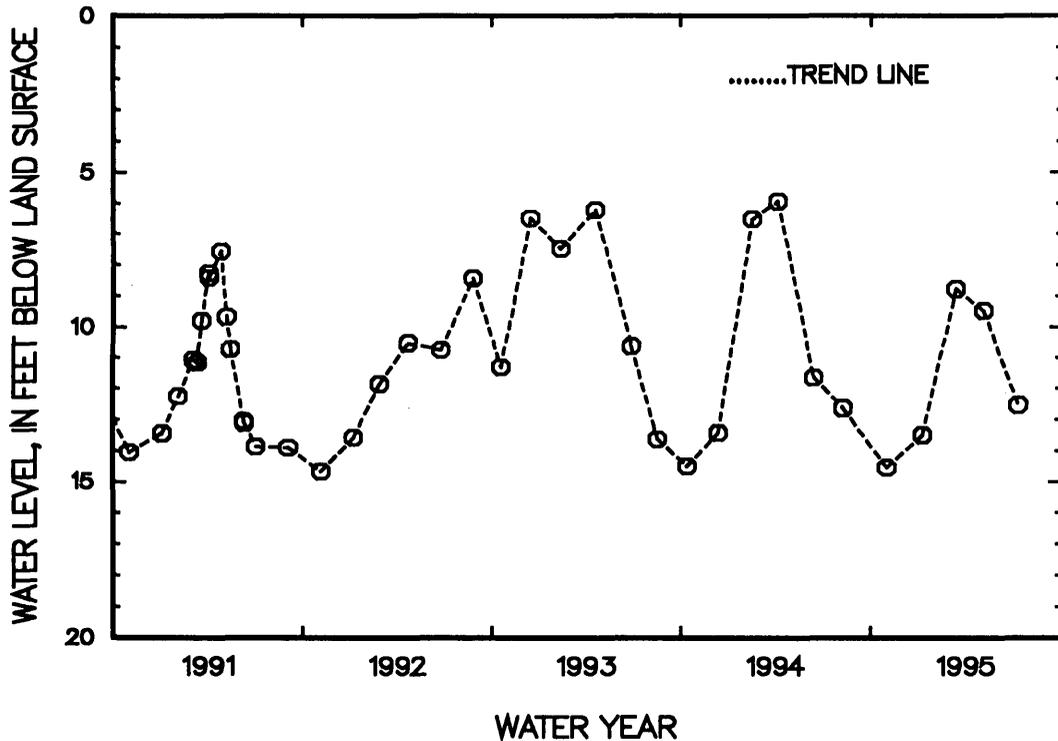
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.94 ft below land-surface datum, Apr. 6, 1994; lowest measured, 14.68 ft below land-surface datum, Nov. 6, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	14.55	JAN 09	13.49	MAR 13	8.78	MAY 04	9.48	JUL 10	12.53

WATER YEAR 1995 HIGHEST 8.78 MAR 13, 1995 LOWEST 14.55 NOV 02, 1994



GROUND-WATER LEVELS

YORK COUNTY

371250076300502. Local number, 58F 65 SOW 191A.

LOCATION.--Lat 37°12'05", long 76°30'05", Hydrologic Unit 02080107, 300 ft east of State Highway 704, 1.2 mi north of intersection of State Highway 704 and U.S. Highway 17, and 1.5 mi south of Yorktown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--York County shallow aquifer system (undivided) of Miocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 110 ft, screened 90 to 110 ft.

INSTRUMENTATION.--Continuous strip-chart recorder since May 7, 1991. Occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum prior to May 7, 1991; 1.70 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

PERIOD OF RECORD.--November 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

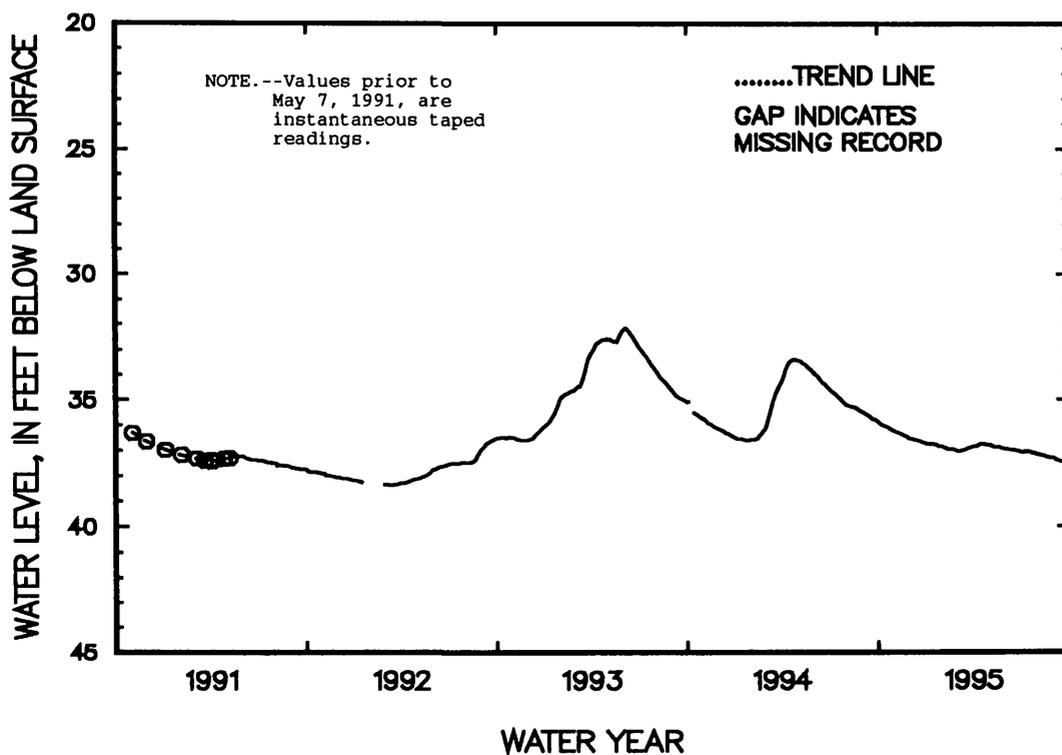
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.17 ft below land-surface datum, June 4, 5, 1993; lowest recorded, 38.38 ft below land-surface datum, Mar. 13, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.93	36.28	36.54	36.75	36.90	37.03	36.85	36.83	36.97	37.08	37.18	37.38
10	36.00	36.30	36.58	36.75	36.95	37.01	36.80	36.87	36.98	37.05	37.20	37.42
15	36.03	36.36	36.60	36.76	36.96	36.99	36.75	36.88	36.99	37.06	37.24	37.45
20	36.07	36.42	36.63	36.78	36.95	36.93	36.76	36.88	37.01	37.09	37.27	37.48
25	36.15	36.45	36.68	36.84	37.00	36.90	36.78	36.93	37.04	37.12	37.30	37.51
EOM	36.22	36.53	36.73	36.85	37.02	36.85	36.80	36.95	37.07	37.16	37.31	37.55

WATER YEAR 1995 HIGHEST INSTANTANEOUS 35.83 OCT 01, 1994 LOWEST INSTANTANEOUS 37.55 SEP 30, 1995

DAILY LOW-WATER LEVELS



YORK COUNTY

371601076343501. Local number, 58G 2.

LOCATION.--Lat 37°16'01", long 76°34'35", Hydrologic Unit 02080107, 3.2 mi northwest of the intersection of State Highway 238 and Main Road at Gate 1 on the Yorktown Naval Weapons Station in Lackey. Owner: U.S. Department of the Navy.

AQUIFER.--Aquia aquifer (?) of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 18 in., depth 445 ft, screen depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10 ft above sea level, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

REMARKS.--Water level affected by regional drawdown.

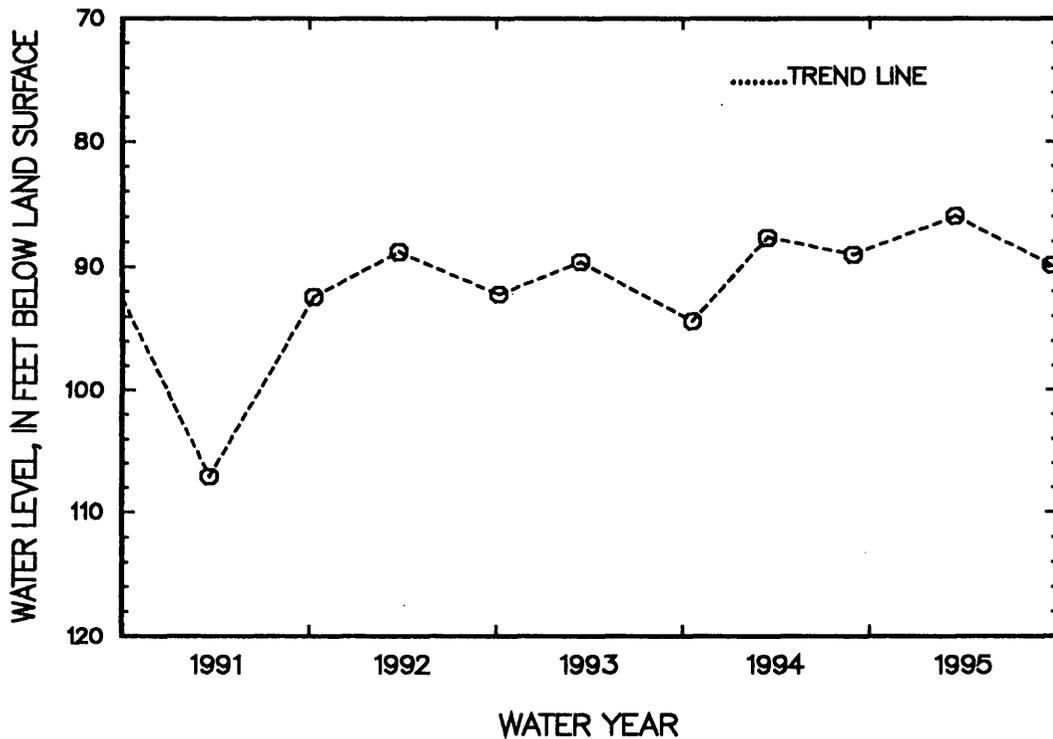
PERIOD OF RECORD.--August 1918, December 1971, December 1983 to July 1985, February 1987 to September 1995 (discontinued). Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.41 ft below land-surface datum, Dec. 7, 1971; highest reported, 2 ft above land-surface datum, Aug. 1, 1918; lowest measured, 107.08 ft below land-surface datum, Mar. 20, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15	85.98	SEP 18	89.89

WATER YEAR 1995	HIGHEST	85.98	MAR 15, 1995	LOWEST	89.89	SEP 18, 1995
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GROUND-WATER LEVELS

YORK COUNTY

371535076373501. Local number, 59F 1 SOW 027.

LOCATION.--Lat 37°13'04", long 76°29'19", Hydrologic Unit 02080107, at U.S. Naval Supply Center, 1.6 mi southeast of Yorktown. Owner: U.S. Naval Supply Center.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 446 ft, screened 421 to 446 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 11, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Sept. 10, 1971, to Oct. 10, 1985, occasional measurement with chalked tape. Apr. 10, 1970, to Sept. 10, 1971, continuous strip-chart recorder. Prior to Apr. 10, 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 50 ft above sea level, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

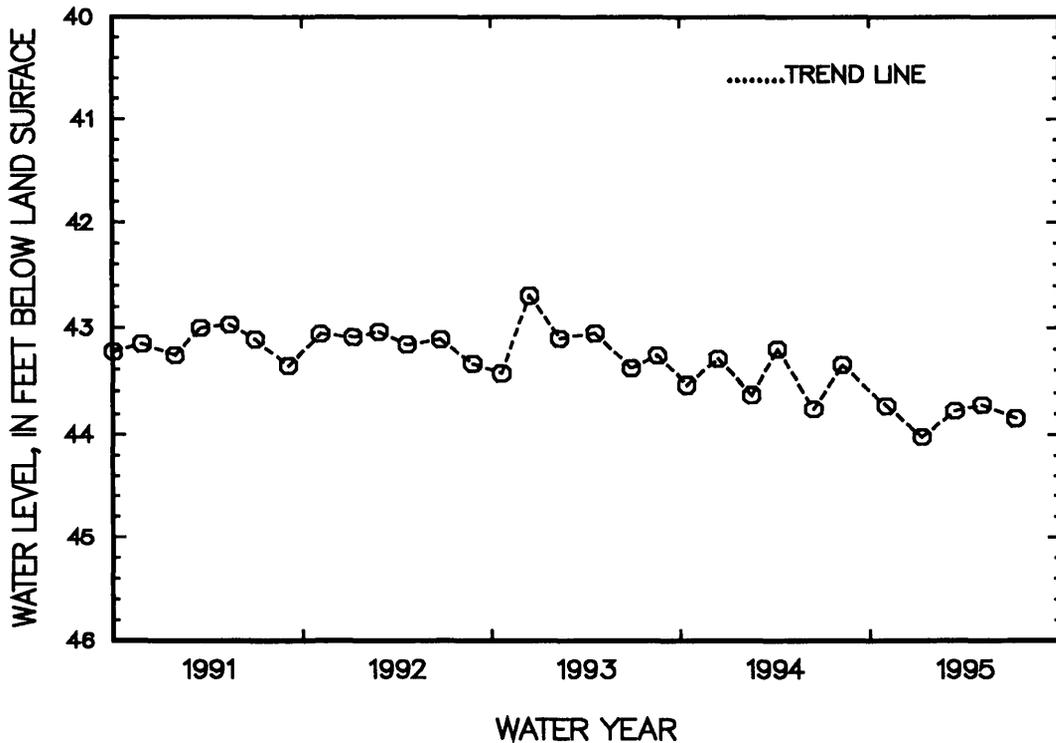
PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.00 ft below land-surface datum, Oct. 27, 1969; lowest measured, 44.69 ft below land-surface datum, July 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	43.72	JAN 09	44.02	MAR 13	43.77	MAY 04	43.71	JUL 07	43.84

WATER YEAR 1995 HIGHEST 43.71 MAY 04, 1995 LOWEST 44.02 JAN 09, 1995



YORK COUNTY

370841076275202. Local number, 59F 72 SOW 184A.

LOCATION.--Lat 37°08'41", long 76°27'52", Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 98 ft, diameter 3.5 in. from 98 to 131 ft, depth 131 ft, screened 121 to 131 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 12, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 12, 1991, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 42 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.8 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

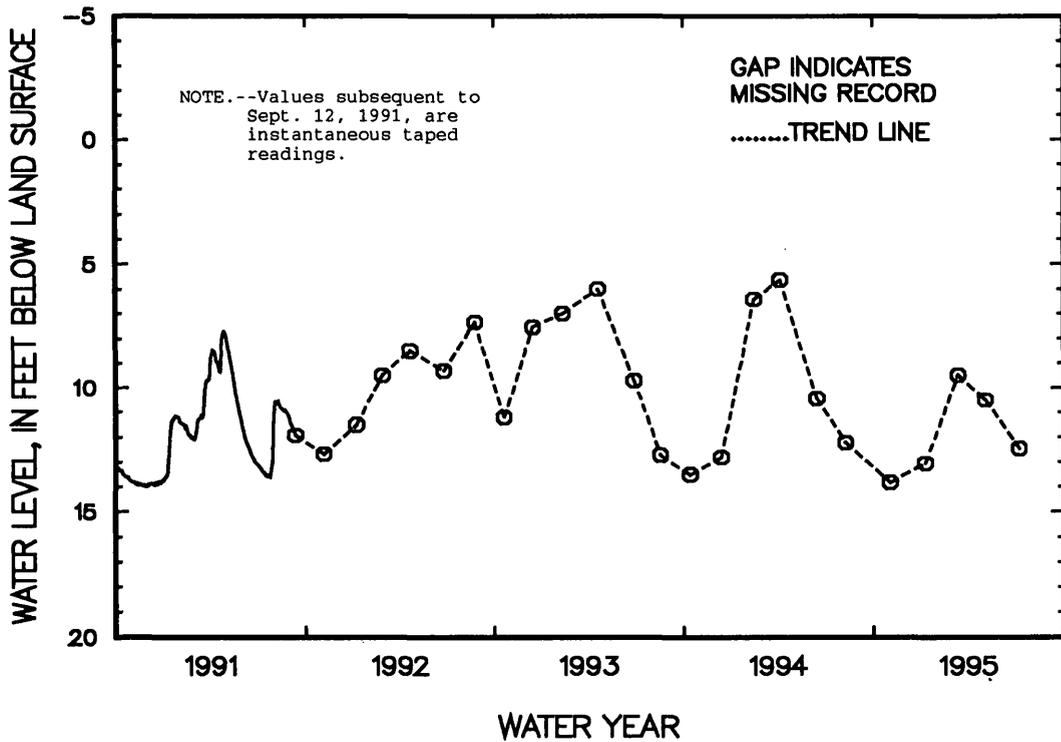
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.64 ft below land-surface datum, Apr. 6, 1994; lowest recorded, 13.99 ft below land-surface datum, Nov. 27, 30, Dec. 1, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	13.83	JAN 09	13.06	MAR 13	9.48	MAY 04	10.49	JUL 07	12.47

WATER YEAR 1995 HIGHEST 9.48 MAR 13, 1995 LOWEST 13.83 NOV 02, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

YORK COUNTY

370841076275203. Local number, 59F 73 SOW 184B.

LOCATION.--Lat 37°08'41", long 76°27'52", Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 39 ft, diameter 2.0 in. from 39 to 60 ft, depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 42 ft above sea level, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

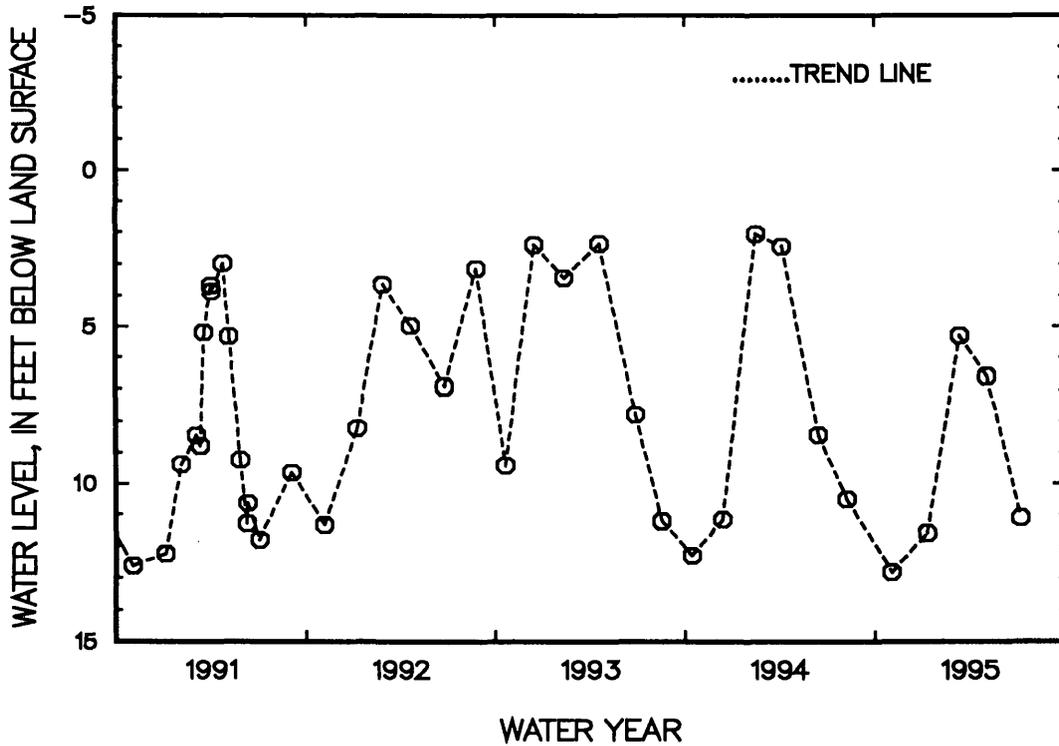
PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.03 ft below land-surface datum, Feb. 15, 1994; lowest measured, 12.81 ft below land-surface datum, Nov. 2, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	12.81	JAN 09	11.59	MAR 13	5.30	MAY 04	6.58	JUL 07	11.10

WATER YEAR 1995 HIGHEST 5.30 MAR 13, 1995 LOWEST 12.81 NOV 02, 1994



YORK COUNTY

370841076275204. Local number, 59F 74 SOW 184C.

LOCATION.--Lat 37°08'41", long 76°27'52", Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 12, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 12, 1991, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 42 ft above sea level, from topographic map. Measuring point: Top of recorder shelf, 2.8 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

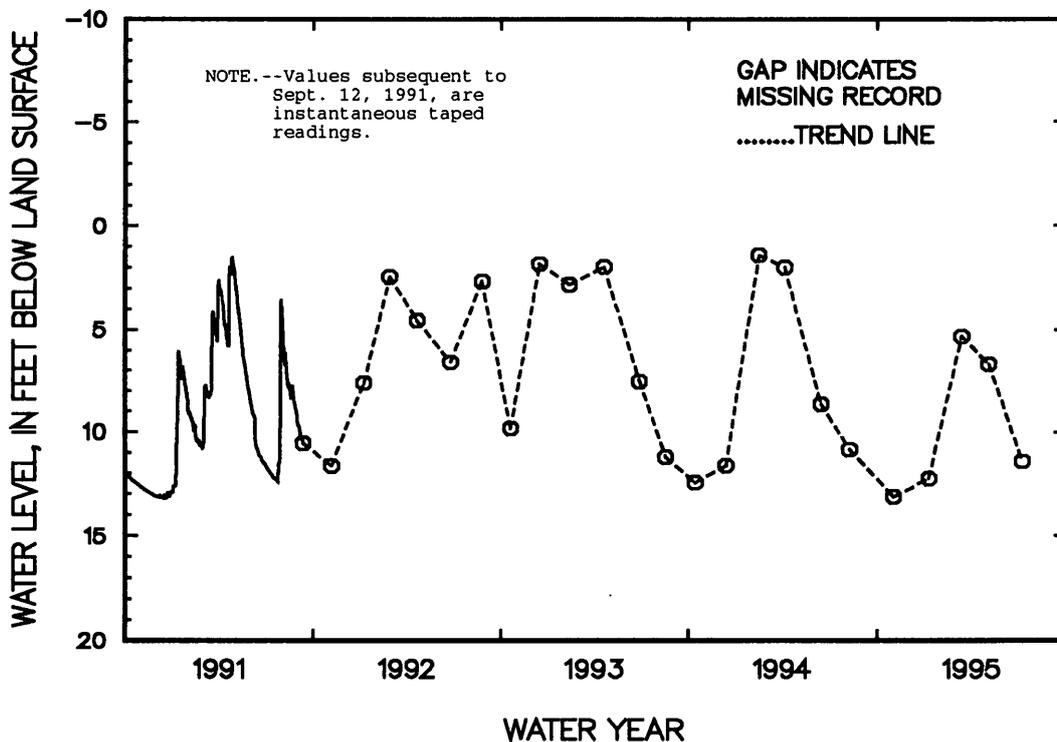
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.32 ft below land-surface datum, Apr. 25, 1991; lowest recorded, 13.20 ft below land-surface datum, Dec. 14, 15, 20, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	13.13	JAN 09	12.24	MAR 13	5.33	MAY 04	6.70	JUL 07	11.41

WATER YEAR 1995 HIGHEST 5.33 MAR 13, 1995 LOWEST 13.13 NOV 02, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

YORK COUNTY

370934076251402. Local number, 59F 76 SOW 185A.

LOCATION.--Lat 37°09'34", long 76°25'14", Hydrologic Unit 02080108, 300 ft west of Kings Grant Road, 0.2 mi south of intersection of Kings Grant Road and State Highway 621, and 1.2 mi southeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 120 ft, screened 100 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 3, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 3, 1991, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 9.79 ft above sea level. Measuring point: Top of recorder shelf, 3.0 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft thereafter. Readings from July 1990 to August 1991 should be 3.0 ft lower than previously published.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

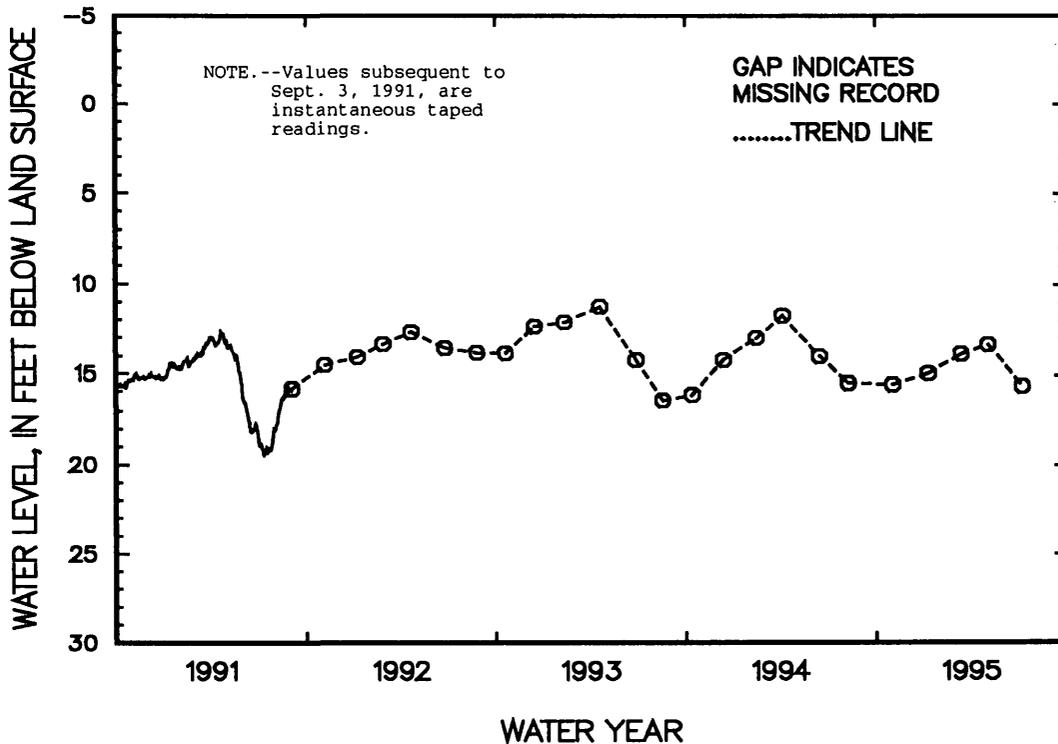
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.26 ft below land-surface datum, Apr. 20, 1993; lowest recorded, 22.45 ft below land-surface datum, July 12, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	15.49	JAN 09	14.89	MAR 13	13.85	MAY 04	13.35	JUL 07	15.56

WATER YEAR 1995 HIGHEST 13.35 MAY 04, 1995 LOWEST 15.56 JUL 07, 1995

DAILY LOW-WATER LEVELS



YORK COUNTY

370934076251403. Local number, 59F 77 SOW 185B.

LOCATION.--Lat 37°09'34", long 76°25'14", Hydrologic Unit 02080108, 300 ft west of Kings Grant Road, 0.2 mi south of intersection of Kings Grant Road and State Highway 621, and 1.2 mi southeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2.0 in., depth 120 ft, screened 110 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 10.05 ft above sea level. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

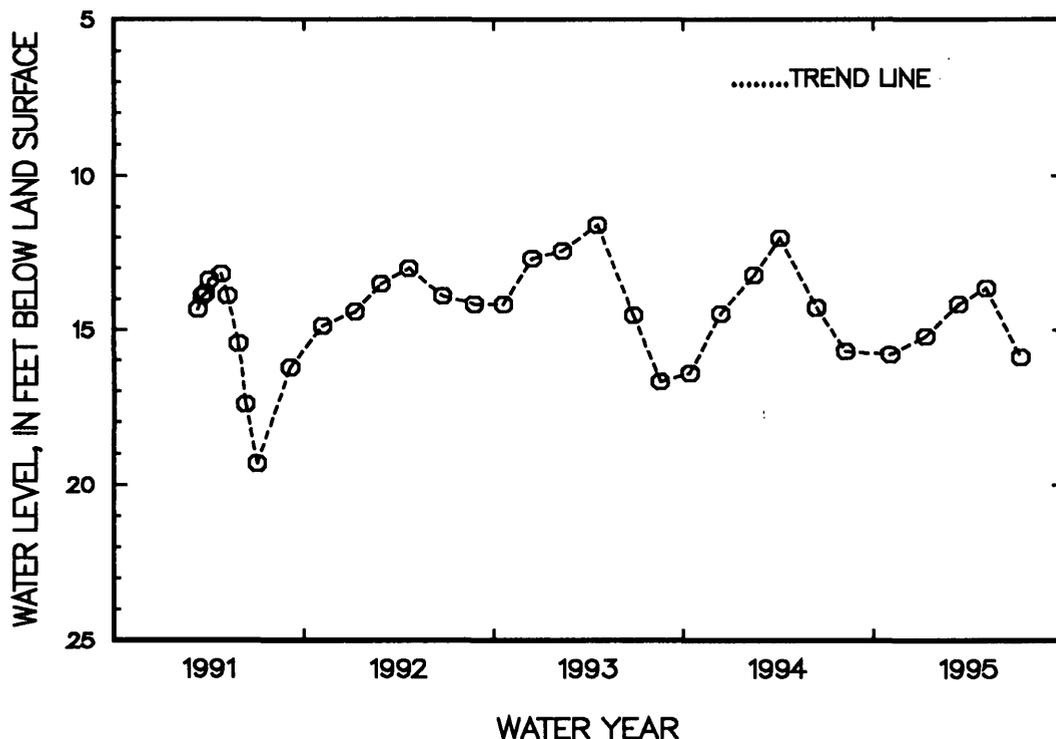
PERIOD OF RECORD.--January 1991 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.59 ft below land-surface datum, Apr. 20, 1993; lowest measured, 19.31 ft below land-surface datum, July 3, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	15.80	JAN 09	15.22	MAR 13	14.17	MAY 04	13.65	JUL 07	15.89

WATER YEAR 1995 HIGHEST 13.65 MAY 04, 1995 LOWEST 15.89 JUL 07, 1995



GROUND-WATER LEVELS

YORK COUNTY

370934076251404. Local number, 59F 78 SOW 185C.

LOCATION.--Lat 37°09'34", 76°25'14", Hydrologic Unit 02080108, 300 ft west of Kings Grant Road, 0.2 mi south of intersection of Kings Grant Road and State Highway 621, and 1.2 mi southeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 50 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 9.88 ft above sea level. Measuring point: Top of casing, 1.8 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

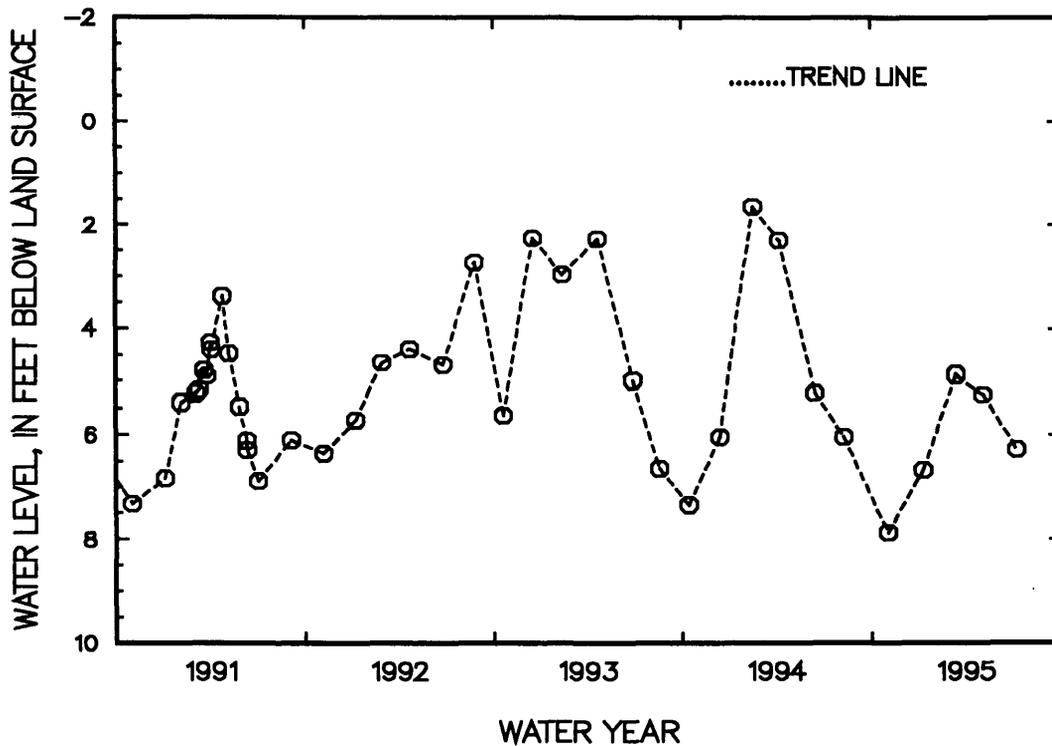
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.64 ft below land-surface datum, Feb. 15, 1994; lowest measured, 7.87 ft below land-surface datum, Nov. 2, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	7.87	JAN 09	6.67	MAR 13	4.86	MAY 04	5.24	JUL 07	6.28

WATER YEAR 1995 HIGHEST 4.86 MAR 13, 1995 LOWEST 7.87 NOV 02, 1994



YORK COUNTY

370934076251405. Local number, 59F 79 SOW 185D.

LOCATION.--Lat 37°09'34", long 76°25'14", Hydrologic Unit 02080108, 300 ft west of Kings Grant Road, 0.2 mi south of intersection of Kings Grant Road and State Highway 621, and 1.2 mi southeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 3, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 3, 1991, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 9.70 ft above sea level. Measuring point: Top of recorder shelf, 3.2 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft thereafter. Readings from July 1990 to August 1991 should be 3.2 ft lower than previously published.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

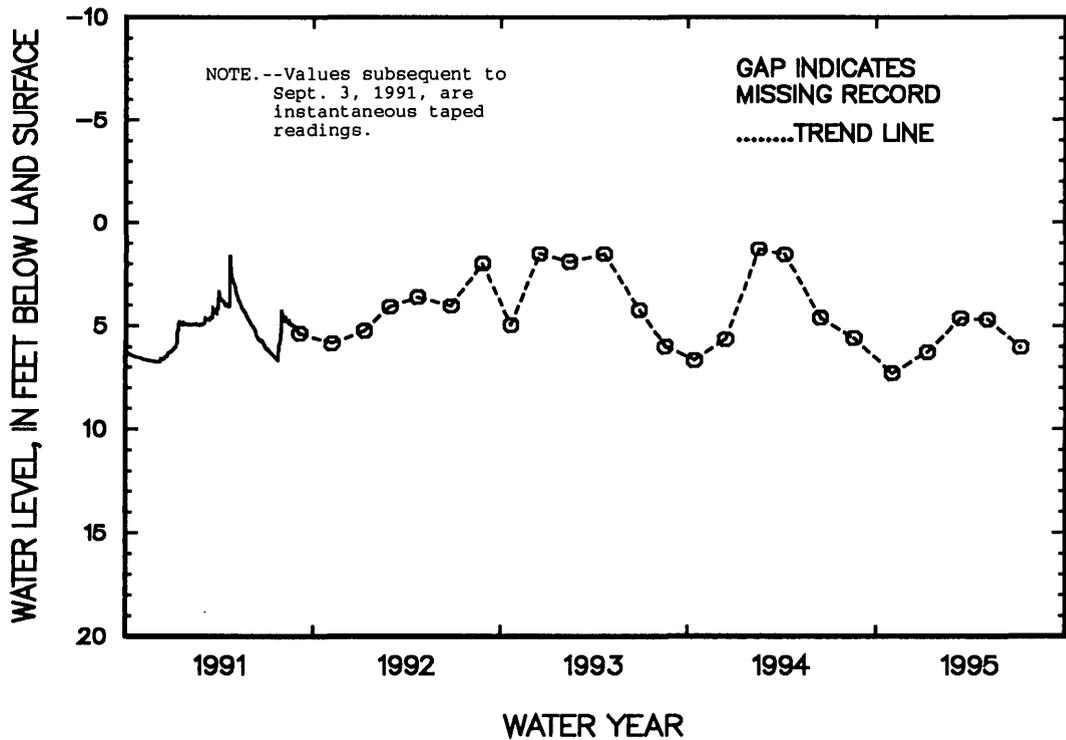
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.27 ft below land-surface datum, Feb. 15, 1994; lowest recorded, 9.94 ft below land-surface datum, Dec. 6-8, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	7.29	JAN 09	6.27	MAR 13	4.64	MAY 04	4.71	JUL 07	6.04

WATER YEAR 1995 HIGHEST 4.64 MAR 13, 1995 LOWEST 7.29 NOV 02, 1994

DAILY LOW-WATER LEVELS



GROUND-WATER LEVELS

YORK COUNTY

370958076291502. Local number, 59F 81 SOW 186A.

LOCATION.--Lat 37°09'58", long 76°29'15", Hydrologic Unit 02080108, 100 ft south of State Highway 173, 0.8 mi southwest of intersection of U.S. Highway 17 and State Highway 173, and 2.8 mi west of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 132 ft, screened 112 to 132 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 50.77 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

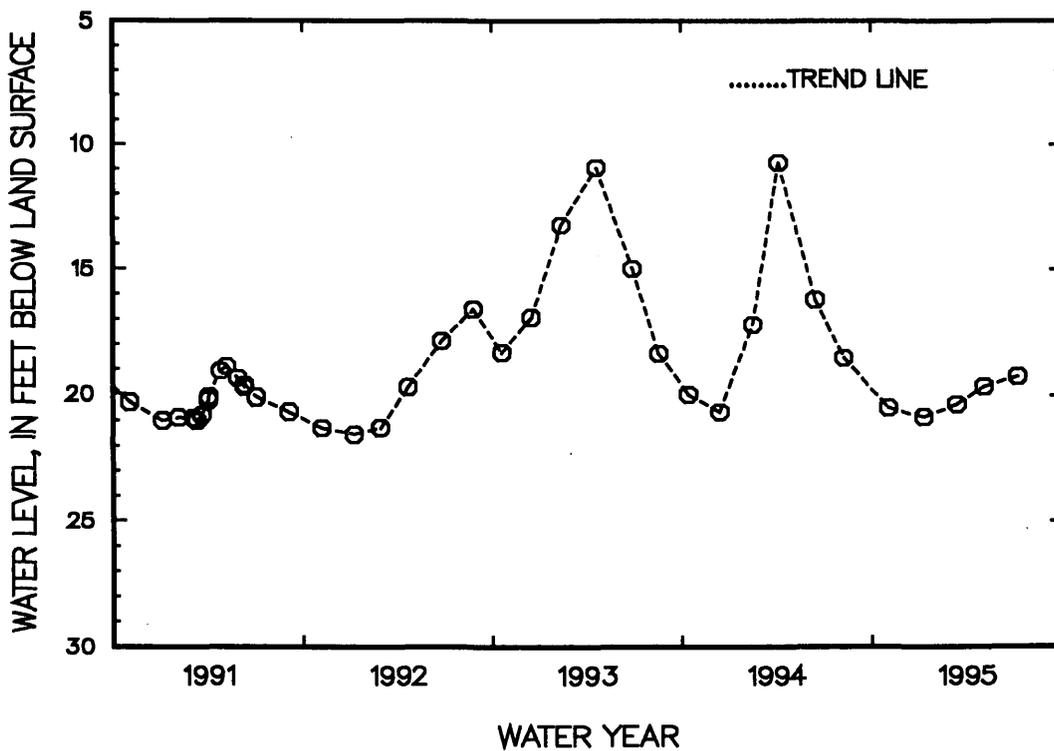
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.73 ft below land-surface datum, Apr. 6, 1994; lowest measured, 21.55 ft below land-surface datum, Jan. 8, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	20.47	JAN 09	20.84	MAR 13	20.33	MAY 04	19.62	JUL 07	19.23

WATER YEAR 1995 HIGHEST 19.23 JUL 07, 1995 LOWEST 20.84 JAN 09, 1995



YORK COUNTY

371207076265502. Local number, 59F 86 SOW 188A.

LOCATION.--Lat 37°12'07", long 76°26'55", Hydrologic Unit 02080107, 200 ft north of State Highway 718, 0.3 mi east of intersection of State Highways 173 and 718, and 2.3 mi northwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--York County shallow aquifer system (undivided) of Miocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 99 ft, screened 79 to 99 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 7 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

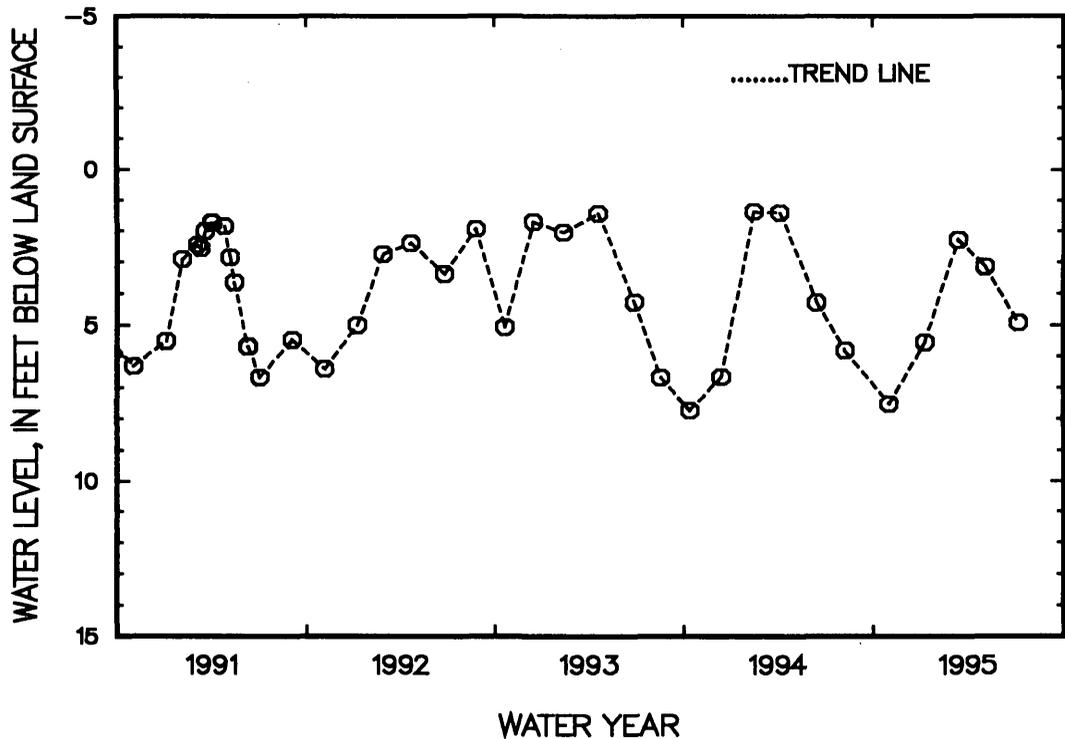
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.37 ft below land-surface datum, Feb. 15, 1994; lowest measured, 7.73 ft below land-surface datum, Oct. 14, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	7.52	JAN 09	5.54	MAR 13	2.27	MAY 04	3.14	JUL 07	4.93

WATER YEAR 1995 HIGHEST 2.27 MAR 13, 1995 LOWEST 7.52 NOV 02, 1994



GROUND-WATER LEVELS

YORK COUNTY

371207076265503. Local number, 59F.87 SOW 188B.

LOCATION.--Lat 37°12'07", long 76°26'55", Hydrologic Unit 02080107, 200 ft north of State Highway 718, 0.3 mi east of intersection of State Highways 173 and 718, and 2.3 mi northwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--York County shallow aquifer system (undivided) of Miocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 30 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 7 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

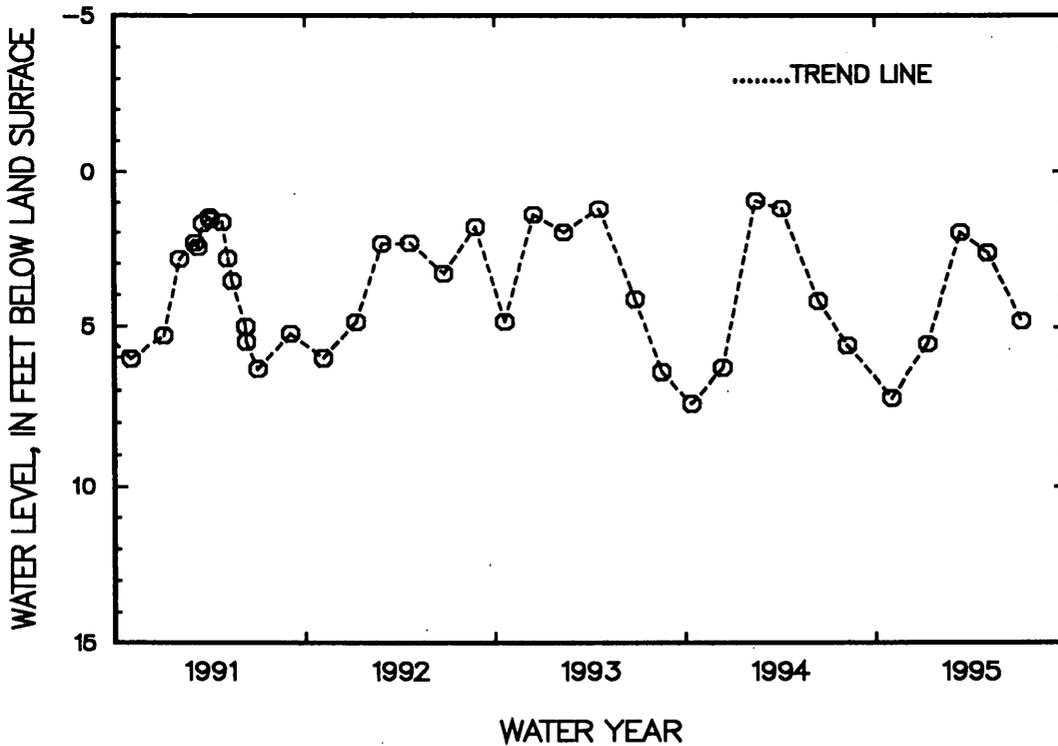
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.95 ft below land-surface datum, Feb. 15, 1994; lowest measured, 7.40 ft below land-surface datum, Oct. 14, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	7.22	JAN 09	5.54	MAR 13	1.97	MAY 04	2.62	JUL 07	4.79

WATER YEAR 1995 HIGHEST 1.97 MAR 13, 1995 LOWEST 7.22 NOV 02, 1994



YORK COUNTY

371053076252202. Local number, 59F 89 SOW 189A.

LOCATION.--Lat 37°10'53", long 76°25'22", Hydrologic Unit 02080108, 500 ft north of State Highway 617, 0.6 mi northeast of intersection of State Highways 620 and 617, and 1.3 mi northeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 97 ft, screened 77 to 97 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 4.63 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

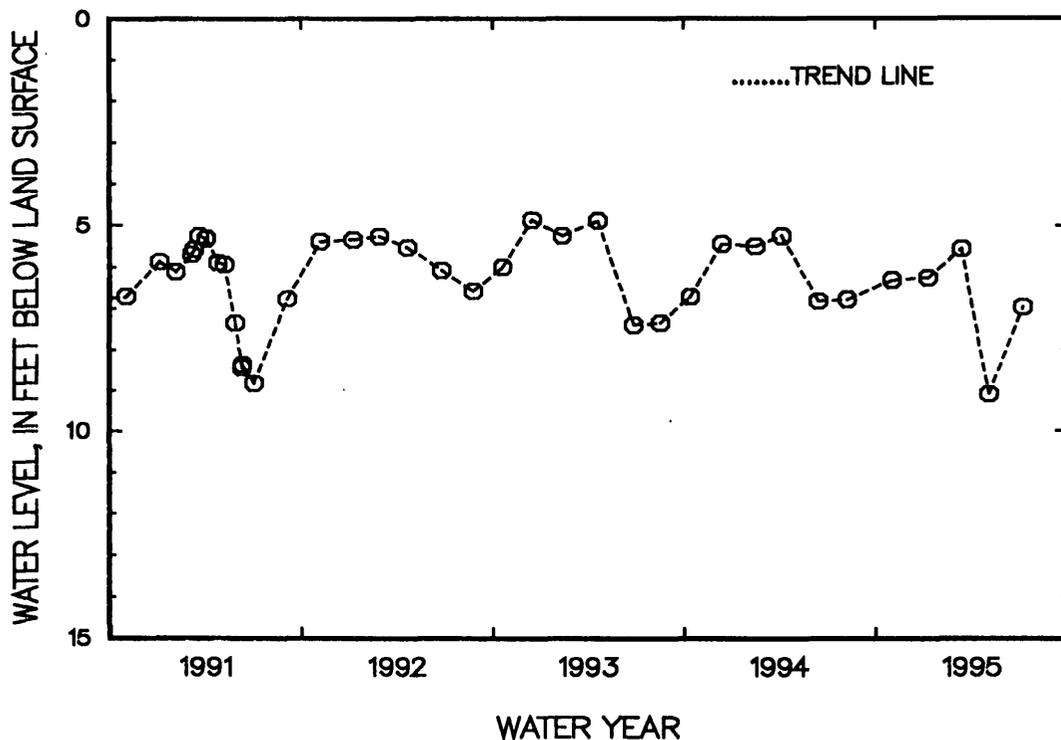
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.86 ft below land-surface datum, Dec. 15, 1992; lowest measured, 9.11 ft below land-surface datum, May 4, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	6.32	JAN 09	6.26	MAR 13	5.56	MAY 04	9.11	JUL 07	6.97

WATER YEAR 1995 HIGHEST 5.56 MAR 13, 1995 LOWEST 9.11 MAY 04, 1995



GROUND-WATER LEVELS

YORK COUNTY

371053076252203. Local number, 59F 96 SOW 189B.

LOCATION.--Lat 37°10'53", long 76°25'22", Hydrologic Unit 02080108, 500 ft north of State Highway 617, 0.6 mi northeast of intersection of State Highways 620 and 617, and 1.3 mi northeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 4.77 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

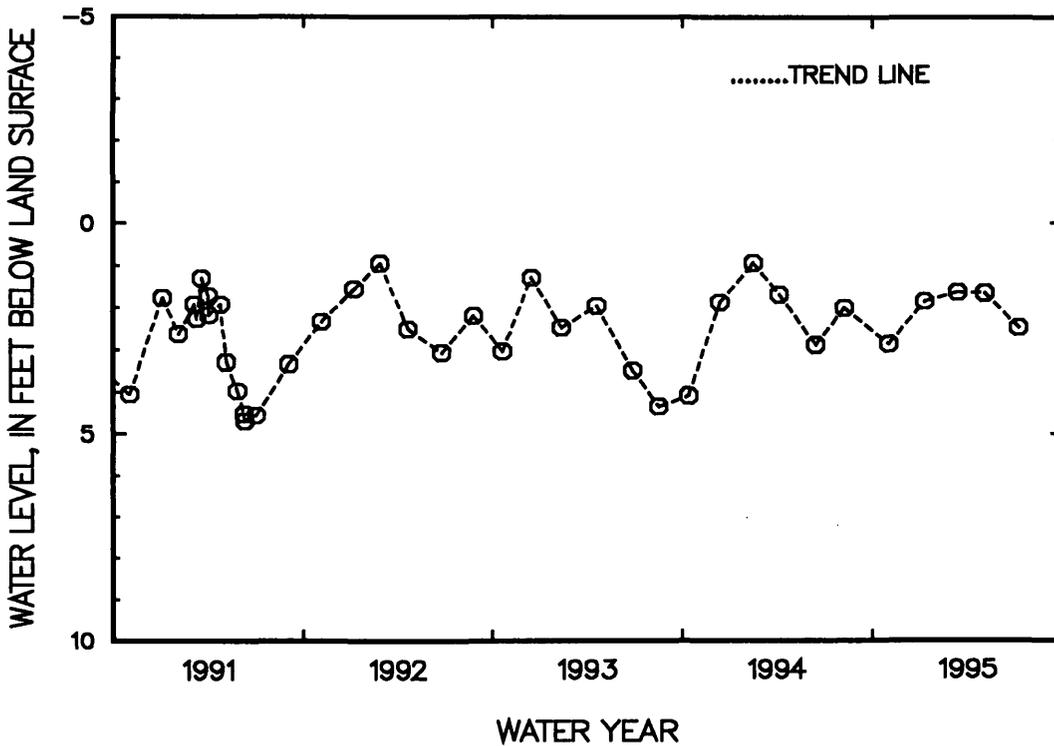
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.94 ft below land-surface datum, Feb. 27, 1992, Feb. 15, 1994; lowest measured, 4.68 ft below land-surface datum, June 11, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	2.87	JAN 09	1.85	MAR 13	1.63	MAY 04	1.65	JUL 07	2.48

WATER YEAR 1995 HIGHEST 1.63 MAR 13, 1995 LOWEST 2.87 NOV 02, 1994



YORK COUNTY

371314076252202. Local number, 59F 98 SOW 190A.

LOCATION.--Lat 37°13'13", long 76°25'25", Hydrologic Unit 02080107, 50 ft north of State Highway 629, 0.8 mi northeast of intersection of State Highways 173 and 629, and 1.8 mi north of Seaford. Owner: Virginia Department of Environmental Quality.

AQUIFER.--York County shallow aquifer system (undivided) of Miocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 100 ft, screened 80 to 100 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 3.35 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

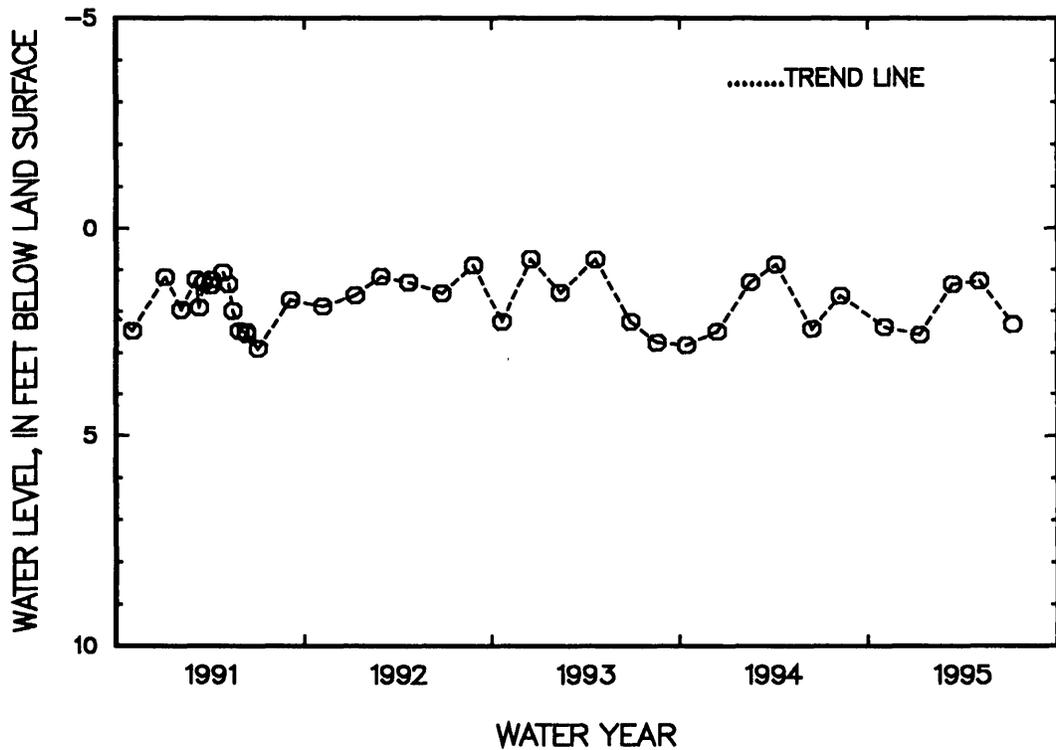
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.74 ft below land-surface datum, Dec. 15, 1992; lowest measured, 2.90 ft below land-surface datum, July 3, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02	2.38	JAN 09	2.57	MAR 13	1.34	MAY 04	1.27	JUL 07	2.32
WATER YEAR 1995		HIGHEST	1.27	MAY 04, 1995	LOWEST	2.57	JAN 09, 1995		



GROUND-WATER LEVELS

YORK COUNTY

371314076252203. Local number, 59F 99 SOW 190B.

LOCATION.--Lat 37°13'13", long 76°25'25", Hydrologic Unit 02080107, 50 ft north of State Highway 629, 0.8 mi northeast of intersection of State Highways 173 and 629, and 1.8 mi north of Seaford. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 3.49 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

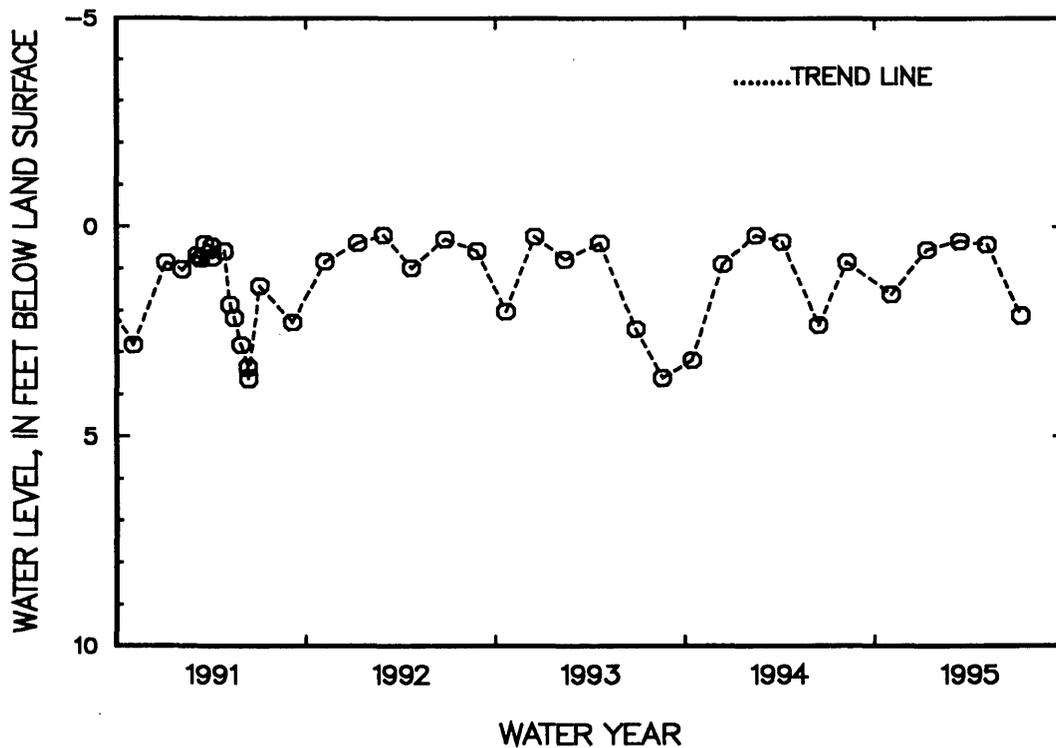
PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.20 ft below land-surface datum, Feb. 27, 1992, Feb. 15, 1994; lowest measured, 3.62 ft below land-surface datum, June 11, 1991, Aug. 18, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL								
NOV 02	1.61	JAN 09	0.54	MAR 13	0.33	MAY 04	0.42	JUL 07	2.12

WATER YEAR 1995 HIGHEST 0.33 MAR 13, 1995 LOWEST 2.12 JUL 07, 1995



GROUND-WATER-QUALITY RECORDS

The following remark codes may appear with the water-quality data in this section:

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols will take place during the 1995 water year.

Change in National Trends Network procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences, based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	ELEV. OF LAND OF SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)
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CITY OF NEWPORT NEWS

58F 81	371002076331601	04-04-95	1137	1132	37.0	8430	7.2	21.5
58F 81	371002076331601	04-06-95	999	994	37.0	7180	7.1	22.0
58F 81	371002076331601	04-08-95	817	812	37.0	6040	7.5	20.0
58F 81	371002076331601	04-10-95	705	700	37.0	5740	7.4	20.5
58F 81	371002076331601	06-12-95	1262	1222	37.0	10500	7.2	27.0

YORK COUNTY

58F 82	371130076303601	05-14-95	1210	1205	52.0	9050	7.6	22.0
58F 82	371130076303601	05-19-95	785	780	52.0	7190	7.7	23.5

LOCAL IDENT- I- FIER	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L) AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS (39086)
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CITY OF NEWPORT NEWS

58F 81	0.2	190	44	20	1700	33	276	0	226
58F 81	0.5	140	31	14	1500	30	327	0	268
58F 81	0.1	100	25	9.7	1200	27	390	0	320
58F 81	0.2	92	22	9.1	1100	27	354	0	290
58F 81	0.3	280	63	30	2200	42	261	0	214

YORK COUNTY

58F 82	0.2	200	38	25	1800	48	378	0	310
58F 82	--	120	20	18	1500	41	500	0	410

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- I- FIER	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
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CITY OF NEWPORT NEWS

58F 81	170	2400	0.40	37	--	4550	5100	130
58F 81	130	2100	0.50	37	--	4020	4300	90
58F 81	120	1700	0.80	29	--	3310	4000	73
58F 81	120	1500	0.80	25	--	2990	3100	47
58F 81	220	3300	0.30	24	6050	6020	200	70

YORK COUNTY

58F 82	190	2600	0.40	25	5030	4920	580	120
58F 82	170	2000	0.90	14	3370	4020	120	70

QUALITY OF GROUND WATER

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in more than one-third of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide a basis for decision making on the use of water resources within the study units and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENTIFIER	DATE	TIME	STATION NUMBER	GEO-LOGIC UNIT	SAMPLING METHOD, CODES (82398)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	ELEV. OF SURFACE DATUM (FT. ABOVE NGVD) (72000)
FREDERICK COUNTY								
44X 1	06-20-95	0930	391248078174601	*344MRCL	4040	125.00	125	735
HIGHLAND COUNTY								
34S 1	07-11-95	1130	383057079340701	*361MCSN	4040	350	350	2780

LOCAL IDENTIFIER	PUMP OR FLOW PERIOD TO SAMPLING (MIN) (72004)	FLOW RATE, INSTANTANEOUS (G/M) (00059)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (PERCENT) (00301)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
FREDERICK COUNTY										
44X 1	76	4.6	335	6.90	15.0	27.0	741	0.500	5	44
HIGHLAND COUNTY										
34S 1	124	0.7	659	7.50	18.5	22.5	721	5.70	65	76

* 344MRCL Marcellus Shale
 * 361MCSN Moccasin Fm

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENTIFIER	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY, WATER FIELD (MG/L AS CACO3) (00419)	BICARBONATE, WATER FIELD (MG/L AS HCO3) (00450)	SULFATE, DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE, DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
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FREDERICK COUNTY--Continued

44X 1	11	8.6	0.50	124	151	48	2.2	0.10	0.070	36
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HIGHLAND COUNTY--Continued

34S 1	33	12	0.70	324	395	19	1.5	0.20	0.040	14
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LOCAL IDENTIFIER	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NITRITE, DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA, DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC, DIS-SOLVED (MG/L AS N) (00623)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
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FREDERICK COUNTY--Continued

44X 1	227	228	<0.010	--	<0.050	0.130	<0.20	0.080	0.050	2700
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HIGHLAND COUNTY--Continued

34S 1	365	351	<0.010	0.110	0.110	0.040	<0.20	<0.010	<0.010	<3
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< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENTIFIER	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	TRITIUM TOTAL (PCI/L) (07000)	HARDNESS TOTAL AS CAC03 (00900)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)
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FREDERICK COUNTY--Continued

44X 1	150	56	16	0.2	<1.0	61	160	0.4	<0.009
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HIGHLAND COUNTY--Continued

34S 1	10	56	15	0.2	<1.0	19	330	0.3	<0.002
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LOCAL IDENTIFIER	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN, WATER, GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER, FLTRD, GF, REC (UG/L) (82680)	CHLOROPYRIFOS, DIS-SOLVED (UG/L) (38933)	CARBON FURAN, WATER, FLTRD, GF, REC (UG/L) (82674)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER, FLTRD, GF, REC (UG/L) (82682)
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FREDERICK COUNTY--Continued

44X 1	<0.007	<0.02	<0.01	<0.008	<0.05	<0.005	<0.01	<0.01	<0.004
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HIGHLAND COUNTY--Continued

34S 1	<0.002	<0.001	<0.002	<0.002	<0.003	<0.004	<0.003	<0.004	<0.002
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< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENTIFIER	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN, DIS-SOLVED (UG/L) (39381)	DIMETH-OATE WATER, FLTRD 0.7 U (UG/L) (82662)	DISUL-FOTON WATER, FLTRD 0.7 U (UG/L) (82677)	EPTC WATER, FLTRD 0.7 U (UG/L) (82668)	ETHAL-FLUR-ALIN, WAT FLT 0.7 U (UG/L) (82663)	ETHO-PROP WATER, FLTRD 0.7 U (UG/L) (82672)	FONOFOS WATER, DISS REC (UG/L) (04095)
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FREDERICK COUNTY--Continued

44X 1	<0.003	<0.008	<0.008	--	<0.06	<0.005	<0.01	<0.01	<0.008
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HIGHLAND COUNTY--Continued

34S 1	<0.002	<0.002	<0.001	--	<0.02	<0.002	<0.004	<0.003	<0.003
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LOCAL IDENTIFIER	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER, FLTRD 0.7 U (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS, WAT FLT 0.7 U (UG/L) (82686)	METHYL PARA-THION, WAT FLT 0.7 U (UG/L) (82667)	METO-LACHLOR WATER, DISSOLV (UG/L) (39415)	METRI-BUZIN WATER, DISSOLV (UG/L) (82630)	MOL-INATE WATER, FLTRD 0.7 U (UG/L) (82671)	NAPROP-AMIDE WATER, FLTRD 0.7 U (UG/L) (82684)
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FREDERICK COUNTY--Continued

44X 1	<0.01	<0.04	<0.01	<0.04	<0.03	<0.009	<0.01	<0.007	<0.01
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HIGHLAND COUNTY--Continued

34S 1	<0.004	<0.002	<0.005	<0.001	<0.006	<0.002	<0.004	<0.004	<0.003
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< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- I- FIER	PARA- THION, DIS- SOLVED (UG/L) (39542)	PENDI- METH- ALIN WAT FLT (UG/L) (82683)	PEB- ULATE WATER FILTRD (UG/L) (82669)	PER- METHRIN CIS WAT FLT (UG/L) (82687)	PHORATE WATER FLTRD (UG/L) (82664)	P, P' DDE DISSOLV (UG/L) (34653)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)
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FREDERICK COUNTY--Continued

44X 1	<0.02	<0.02	<0.009	<0.02	<0.01	<0.01	<0.008	<0.009	<0.02
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HIGHLAND COUNTY--Continued

34S 1	<0.004	<0.004	<0.004	<0.005	<0.002	<0.006	<0.02	<0.003	<0.007
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LOCAL IDENT- I- FIER	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
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FREDERICK COUNTY--Continued

44X 1	<0.02	<0.008	<0.02	<0.03	<0.01	<0.008	<0.01	<0.008	<0.006
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HIGHLAND COUNTY--Continued

34S 1	<0.004	<0.005	<0.01	<0.007	<0.01	<0.001	<0.002	<0.002	<0.003
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< Actual value is known to be less than the value shown.

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

Rockingham County

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (PT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
398 1 (MC-03)	383156078571001	06-22-94	1400	12.00	1523	6.03	15.5	473	2.0	7.1
		09-07-94	1302	12.00	1523	5.57	17.5	470	2.7	6.9
		09-07-94	1303	12.00	1523	--	--	--	--	--
		06-07-95	1600	12.00	1523	6.15	17.0	425	2.3	7.1
		06-07-95	1601	12.00	1523	--	--	--	--	--
398 2 (MC-04)	383152078570901	04-13-94	1130	12.00	1518	1.58	10.0	430	--	6.6
		04-13-94	1131	12.00	1518	--	--	--	--	--
		06-21-94	1730	12.00	1518	6.76	17.0	402	--	6.8
		09-07-94	0903	12.00	1518	5.46	18.5	413	1.0	6.0
		09-07-94	0904	12.00	1518	--	--	--	--	--
		09-26-94	1400	12.00	1518	6.55	17.5	389	0.5	6.0
		09-26-94	1401	12.00	1518	--	--	--	--	--
		10-26-94	1500	12.00	1518	6.55	15.0	386	1.2	6.0
		10-26-94	1501	12.00	1518	--	--	--	--	--
		12-07-94	0900	12.00	1518	7.14	13.0	410	0.7	6.0
		12-07-94	0901	12.00	1518	--	--	--	--	--
		03-27-95	1500	12.00	1518	--	9.5	381	1.5	6.0
		03-27-95	1501	12.00	1518	--	--	--	--	--
		05-03-95	1700	12.00	1518	8.49	11.0	381	1.0	6.0
		05-03-95	1701	12.00	1518	--	--	--	--	--
05-16-95	0945	12.00	1518	4.99	14.0	340	0.8	7.0		
05-16-95	0946	12.00	1518	--	--	--	--	--		
06-08-95	0900	12.00	1518	6.33	16.0	355	0.8	7.0		
06-08-95	0901	12.00	1518	--	--	--	--	--		
398 3 (MC-07)	383153078571001	06-22-94	1700	10.00	1520	5.13	16.0	477	2.8	7.2
		09-07-94	1105	10.00	1520	5.16	17.5	499	7.6	7.0
		09-07-94	1106	10.00	1520	--	--	--	--	--
		10-26-94	0815	10.00	1520	5.23	13.0	459	5.8	6.0
		10-26-94	0816	10.00	1520	--	--	--	--	--
		03-28-95	1300	10.00	1520	--	12.0	427	2.7	6.0
		03-28-95	1301	10.00	1520	--	--	--	--	--
		06-08-95	1030	10.00	1520	3.26	18.0	401	3.1	7.0
		06-08-95	1031	10.00	1520	--	--	--	--	--
		06-08-95	1032	10.00	1520	--	--	--	--	--
398 4 (MC-08)	383155078571201	04-14-94	1530	21.00	1524	4.37	13.5	408	--	6.9
		04-14-94	1531	21.00	1524	--	--	--	--	--
		06-23-94	1330	21.00	1524	6.92	14.0	408	0.5	7.3
		09-06-94	1507	21.00	1524	6.86	14.5	419	3.3	7.1
		09-06-94	1508	21.00	1524	--	--	--	--	--
		09-27-94	1530	21.00	1524	7.00	14.5	375	0.7	7.1
		09-27-94	1531	21.00	1524	--	--	--	--	--
		10-25-94	1100	21.00	1524	7.09	14.0	442	1.4	7.0
		10-25-94	1101	21.00	1524	--	--	--	--	--
		12-06-94	1430	21.00	1524	7.15	14.0	454	0.9	6.9
		12-06-94	1431	21.00	1524	--	--	--	--	--
		03-28-95	1100	21.00	1524	9.17	10.5	333	1.6	7.0
		03-28-95	1101	21.00	1524	--	--	--	--	--
		05-04-95	0830	21.00	1524	10.39	12.5	249	1.2	7.2
		05-04-95	0831	21.00	1524	--	--	--	--	--
		05-16-95	1330	21.00	1524	5.91	12.5	378	0.9	7.3
		05-16-95	1331	21.00	1524	--	--	--	--	--
06-08-95	1030	21.00	1524	6.56	14.5	391	1.1	7.3		
06-08-95	1031	21.00	1524	--	--	--	--	--		
398 5 (MC-09)	383159078571101	06-23-94	1500	14.00	1534	10.48	16.0	436	0.8	6.6
		09-08-94	1430	14.00	1534	10.20	22.5	489	5.0	6.8
		09-08-94	1431	14.00	1534	--	--	--	--	--
		06-08-95	1430	14.00	1534	10.50	15.5	469	0.1	6.8
		06-08-95	1431	14.00	1534	--	--	--	--	--
398 6 (MC-10)	383202078571201	04-14-94	1330	33.30	1542	4.44	14.0	435	--	6.2
		04-14-94	1331	33.30	1542	--	--	--	--	--
		06-20-94	1630	33.30	1542	11.23	14.5	390	--	6.5
		09-07-94	1510	33.30	1542	9.90	15.0	382	4.1	6.4
		09-07-94	1511	33.30	1542	--	--	--	--	--
		09-28-94	0900	33.30	1542	13.63	12.5	372	2.6	6.3
		09-28-94	0901	33.30	1542	--	--	--	--	--
		03-28-95	1545	33.30	1542	13.30	12.0	385	1.9	6.1
		03-28-95	1546	33.30	1542	--	--	--	--	--
		06-06-95	1400	33.30	1542	14.4	14.0	374	4.4	6.5
06-06-95	1401	33.30	1542	--	--	--	--	--		
398 7 (MC-11)	383203078571301	06-22-94	1030	22.50	1546	11.52	14.5	383	4.7	7.1
		09-08-94	1453	22.50	1546	8.59	17.0	366	0.4	6.9
		09-08-94	1454	22.50	1546	--	--	--	--	--
		06-06-95	1630	22.50	1546	11.50	18.0	346	5.5	7.1
		06-06-95	1631	22.50	1546	--	--	--	--	--
398 9 (MC-17)	383152078570902	04-13-94	1230	40.00	1518	1.87	13.0	436	--	7.1
		04-13-94	1231	40.00	1518	--	--	--	--	--
		06-21-94	1500	40.00	1518	5.31	16.0	422	--	7.3
		09-07-94	0808	40.00	1518	4.47	14.0	407	1.7	7.3
		09-07-94	0809	40.00	1518	--	--	--	--	--
		09-27-94	0900	40.00	1518	5.12	14.0	390	4.9	7.3
		09-27-94	0901	40.00	1518	--	--	--	--	--
		12-06-94	1230	40.00	1518	5.23	14.5	428	0.3	7.1
		12-06-94	1231	40.00	1518	--	--	--	--	--
		03-27-95	1700	40.00	1518	13.00	12.5	414	1.3	7.1
		03-27-95	1701	40.00	1518	--	--	--	--	--
		06-07-95	1400	40.00	1518	5.20	14.5	395	4.0	7.6
		06-07-95	1401	40.00	1518	--	--	--	--	--
		06-13-95	0900	40.00	1518	--	12.5	400	1.6	7.8

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	PHOS-PHATE, DIS-SOLVED (MG/L AS PO4) (00653)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC, DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC, TOTAL (MG/L AS C) (00680)	CALCIUM, DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)
39S 1 (MC-03)	--	<0.010	<0.010	0.6	--	72	13	4.4	1.8	7.2
	0.11	--	--	--	--	74	13	4.5	2.3	7.0
	<0.04	--	--	0.6	--	73	13	3.6	1.7	6.3
39S 2 (MC-04)	--	0.010	<0.010	--	--	--	--	--	--	--
	<0.04	--	<0.010	--	1.5	59	14	4.9	2.7	8.4
	--	<0.010	<0.010	0.7	--	62	12	3.8	2.8	5.7
	0.05	--	--	--	--	58	13	3.3	3.0	5.4
	<0.04	--	--	--	--	57	11	3.3	2.8	4.9
	<0.04	--	--	--	--	57	11	2.6	2.6	5.1
	<0.04	--	--	1.1	--	61	12	3.0	2.8	6.0
	<0.04	--	--	1.1	--	60	11	3.0	2.5	5.1
	<0.04	--	--	1.2	--	55	10	3.6	2.6	5.7
<0.04	--	--	1.4	--	60	12	3.0	2.7	4.8	
<0.04	--	--	0.9	--	60	11	2.6	2.3	4.1	
39S 3 (MC-07)	--	<0.010	<0.010	0.7	--	61	18	4.3	2.6	8.9
	<0.04	--	--	--	--	66	21	5.2	2.8	10
	<0.038	--	--	--	--	62	17	3.7	2.0	7.7
	<0.04	--	--	1.1	--	57	17	4.1	2.3	5.9
	<0.04	--	--	0.6	--	63	15	3.6	2.2	7.3
39S 4 (MC-08)	--	0.010	<0.010	--	--	--	--	--	--	--
	0.71	--	<0.010	0.6	0.5	49	17	4.5	1.9	6.5
	--	<0.010	<0.010	0.6	--	53	18	3.1	2.0	6.5
	0.28	--	--	--	--	58	13	3.3	3.0	7.0
	<0.04	--	--	0.9	--	60	18	8.3	2.7	7.3
	0.10	--	--	2.5	--	53	18	7.7	2.6	7.0
	0.04	--	--	4.6	--	55	18	5.3	3.4	8.3
	--	--	--	1.3	--	42	14	3.6	2.4	--
	<0.04	--	--	1.3	--	42	13	3.9	2.8	0.41
	<0.04	--	--	1.1	--	50	16	4.0	2.8	5.9
<0.04	--	--	0.9	--	65	18	4.0	2.8	14	
39S 5 (MC-09)	--	<0.010	<0.010	1.0	--	74	8.1	3.3	1.0	9.4
	0.06	--	--	--	--	84	9.2	3.5	1.2	8.4
	<0.04	--	--	1.0	--	86	9.4	4.0	0.94	15
39S 6 (MC-10)	--	0.710	0.710	--	--	--	--	--	--	--
	1.4	--	0.310	0.300	0.5	0.4	60	10	6.6	1.2
	--	0.310	0.300	0.5	--	58	10	5.5	1.1	10
	0.71	--	--	--	--	59	9.0	4.7	0.90	10
	0.03	--	--	--	--	61	8.9	4.0	0.90	10
	<0.04	--	--	0.6	--	55	9.3	5.2	1.0	6.3
<0.04	--	--	0.7	--	63	13	8.6	1.7	23	
39S 7 (MC-11)	--	0.680	0.620	0.4	--	55	11	5.4	1.0	2.3
	0.55	--	--	--	--	58	12	2.5	0.85	2.4
	--	--	--	1.0	--	58	11	2.8	0.82	--
39S 9 (MC-17)	--	<0.010	<0.010	--	--	--	--	--	--	--
	<0.04	--	--	--	0.2	54	21	2.6	4.2	6.3
	--	<0.010	<0.010	0.5	--	59	20	2.5	1.6	5.2
	<0.04	--	--	--	--	63	19	2.3	1.5	5.3
	<0.04	--	--	--	--	54	20	2.5	1.8	4.8
	<0.04	--	--	0.9	--	56	18	2.7	1.6	6.3
	<0.04	--	--	0.5	--	54	19	2.4	1.5	4.5
<0.04	--	--	0.5	--	59	20	2.4	0.48	4.8	

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE, DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	RADON 222 TOTAL (PCI/L) (82303)	TRITIUM TOTAL (PCI/L) (07000)
398 1 (MC-03)	14	<0.10	0.030	7.9	<3	2	--	--	--	--
	13	0.04	--	8.3	59	<3	200	170	1300	--
	11	<0.007	--	7.1	240	31	210	140	--	--
398 2 (MC-04)	20	--	--	5.9	<11	<3	150	50	--	--
	12	<0.10	0.020	8.1	<3	1	--	--	--	--
	9.8	0.03	--	7.6	43	7	210	100	--	42
	8.3	<0.007	--	7.9	46	40	150	80	--	--
	7.9	<0.007	--	6.6	53	<3	150	80	--	--
	8.2	0.04	--	5.7	34	9	180	130	--	--
	12	<0.007	--	6.3	130	<3	140	70	--	--
	14	0.02	--	7.1	85	<3	140	80	--	--
	44	<0.007	--	6.6	210	27	170	120	1500	--
7.9	<0.007	--	7.0	59	32	160	120	--	--	
398 3 (MC-07)	16	0.10	0.020	8.1	<3	<1	--	--	--	--
	18	0.03	--	7.8	71	<3	150	150	--	--
	13	<0.007	--	7.2	40	<3	160	100	--	--
	16	<0.007	--	7.6	1000	11	140	70	240	--
	14	<0.007	--	7.2	220	31	170	120	--	--
398 4 (MC-08)	16	--	--	6.8	<11	12	91	50	--	--
	12	0.10	0.020	7.9	4	13	--	--	--	--
	13	0.03	--	8.5	43	<3	160	100	--	35
	16	<0.007	--	8.3	60	7	130	90	--	--
	13	<0.007	--	8.1	44	12	140	90	--	--
	14	0.04	--	7.0	36	1000	120	120	--	--
	--	--	--	7.4	62	8	80	50	--	--
	1.2	<0.007	--	7.5	49	13	88	50	--	--
	13	<0.007	--	7.3	150	29	99	90	900	--
28	<0.007	--	7.3	210	34	330	100	--	--	
398 5 (MC-09)	11	0.10	0.010	10	22	7100	--	--	--	--
	12	0.04	--	11	55	2700	250	150	1100	--
	13	<0.007	--	10	270	4100	260	150	--	--
398 6 (MC-10)	19	--	--	11	<11	51	190	50	--	--
	17	0.20	0.030	11	3	23	--	--	--	--
	17	<0.007	--	10	36	8	170	80	--	54
	18	<0.007	--	8.6	27	4	180	80	--	--
	16	<0.007	--	11.3	64	7	190	70	680	--
	30	<0.007	--	10	270	550	170	100	--	--
398 7 (MC-11)	3.6	0.50	<0.010	10	<3	980	--	--	--	--
	4.4	0.03	--	9.6	43	1300	170	90	440	--
	--	--	--	9.2	190	1200	170	100	--	--
398 9 (MC-17)	30	--	--	7.6	57	41	180	60	--	--
	21	0.10	0.020	7.8	7	9	--	--	--	--
	22	0.03	--	7.1	67	11	150	90	--	45
	16	<0.007	--	6.8	52	4	170	80	--	--
	17	0.03	--	6.1	59	8	180	120	--	--
	16	<0.007	--	7.2	82	10	160	60	90	--
21	<0.007	--	6.5	240	42	180	110	--	--	

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STANDARD UNITS) (00400)
39S 10 (MC-18)	383224078574801	04-14-94	1020	10.80	1737	-0.16	11.5	134	--	6.0
		04-14-94	1021	10.80	1737	--	--	--	--	--
		06-20-94	1400	10.80	1737	1.18	16.0	127	--	5.8
		09-08-94	1017	10.80	1737	1.79	18.0	124	1.0	5.9
		09-08-94	1018	10.80	1737	--	--	--	--	--
		09-28-94	1630	10.80	1737	2.79	16.0	135	0.6	5.9
		09-28-94	1631	10.80	1737	--	--	--	--	--
		03-28-95	1000	10.80	1737	3.73	8.5	113	0.8	6.1
		03-28-95	1001	10.80	1737	--	--	--	--	--
		06-05-95	1800	10.80	1737	0.29	14.0	117	1.4	6.0
		06-05-95	1801	10.80	1737	--	--	--	--	--
		06-05-95	1801	10.80	1737	--	--	--	--	--
		39S 13 (MC-27)	383151078570902	09-07-94	0830	11.00	1515	6.03	16.5	414
09-07-94	0831			11.00	1515	--	--	--	--	--
03-28-95	1230			11.00	1515	9.40	9.5	370	6.2	7.2
03-28-95	1231			11.00	1515	--	--	--	--	--
06-09-95	0800			11.00	1515	6.43	18.0	340	3.7	7.1
06-09-95	0801			11.00	1515	--	--	--	--	--
39S 14 (MC-28)	383211078574001	09-08-94	0900	62.00	1633	38.40	13.0	429	0.6	7.0
		09-08-94	0901	62.00	1633	--	--	--	--	--
		09-29-94	0930	62.00	1633	41.58	12.0	375	0.8	7.1
		09-29-94	0931	62.00	1633	--	--	--	--	--
		10-26-94	1000	62.00	1633	39.00	12.0	297	3.6	7.4
		10-26-94	1001	62.00	1633	--	--	--	--	--
		12-07-94	1650	62.00	1633	39.60	13.5	326	2.4	7.3
		12-07-94	1651	62.00	1633	--	--	--	--	--
		03-27-95	1700	62.00	1633	35.90	12.0	426	3.0	7.3
		03-27-95	1702	62.00	1633	--	--	--	--	--
		05-03-95	1445	62.00	1633	--	13.0	377	1.7	7.3
		05-03-95	1446	62.00	1633	--	--	--	--	--
		05-15-95	1700	62.00	1633	29.55	13.5	358	1.4	7.4
		05-15-95	1701	62.00	1633	--	--	--	--	--
		06-05-95	1530	62.00	1633	38.08	14.5	386	3.7	7.3
		06-05-95	1531	62.00	1633	--	--	--	--	--
		39S 15 (MC-29)	383211078574002	10-25-94	1300	99.00	1634	39.38	13.0	308
10-25-94	1301			99.00	1634	--	--	--	--	--
12-07-94	1430			99.00	1634	39.6	13.5	322	3.8	7.2
12-07-94	1431			99.00	1634	--	--	--	--	--
03-27-95	1545			99.00	1634	35.7	12.5	332	5.0	7.5
03-27-95	1546			99.00	1634	--	--	--	--	--
05-03-95	1400			99.00	1634	39.0	16.5	312	1.7	7.5
05-03-95	1401			99.00	1634	--	--	--	--	--
05-15-95	1515			99.00	1634	29.47	14.0	312	1.2	7.4
05-15-95	1516			99.00	1634	--	--	--	--	--
06-05-95	1330			99.00	1634	38.10	14.0	310	5.6	7.5
06-05-95	1331	99.00	1634	--	--	--	--	--		
39S 16 (MC-30)	383211078573201	09-07-94	1400	52.00	1586	15.67	11.5	470	1.2	7.2
		09-07-94	1401	52.00	1586	--	--	--	--	--
		09-28-94	1400	52.00	1586	20.9	11.5	421	4.5	6.9
		09-28-94	1401	52.00	1586	--	--	--	--	--
		12-08-94	1330	52.00	1586	24.4	10.0	432	3.3	7.0
		12-08-94	1331	52.00	1586	--	--	--	--	--
		03-29-95	1400	52.00	1586	12.1	11.0	556	1.4	7.3
		03-29-95	1401	52.00	1586	--	--	--	--	--
		05-03-95	1115	52.00	1586	10.09	11.5	556	0.8	7.1
		05-03-95	1116	52.00	1586	--	--	--	--	--
		05-15-95	1200	52.00	1586	7.20	14.0	562	0.9	6.9
		05-15-95	1201	52.00	1586	--	--	--	--	--
		06-06-95	0930	52.00	1586	11.25	13.0	558	1.1	7.2
06-06-95	0931	52.00	1586	--	--	--	--	--		
39S 17 (MC-31)	383203078571901	09-06-94	1615	55.00	1557	15.60	13.0	367	7.2	7.8
		09-06-94	1616	55.00	1557	--	--	--	--	--
		09-28-94	1130	55.00	1557	20.92	12.5	353	4.4	7.7
		09-28-94	1131	55.00	1557	--	--	--	--	--
		10-26-94	1245	55.00	1557	24.5	12.5	347	4.3	7.5
		10-26-94	1246	55.00	1557	--	--	--	--	--
		12-07-94	1240	55.00	1557	28.4	15.5	394	3.2	7.4
		12-07-94	1241	55.00	1557	--	--	--	--	--
		03-29-95	1030	55.00	1557	20.9	12.0	469	6.8	7.9
		03-29-95	1031	55.00	1557	--	--	--	--	--
		06-06-95	1200	55.00	1557	23.00	14.0	426	5.3	7.8
		06-06-95	1201	55.00	1557	--	--	--	--	--
39S 19 (MC-34)	383155078571202	09-07-94	1700	47.00	1524	6.38	14.0	409	4.2	7.0
		09-07-94	1701	47.00	1524	--	--	--	--	--
		09-27-94	1100	47.00	1524	7.29	14.0	409	2.9	7.5
		09-27-94	1131	47.00	1524	--	--	--	--	--
		10-24-94	0930	47.00	1524	7.08	13.0	398	3.9	6.8
		10-24-94	0931	47.00	1524	--	--	--	--	--
		12-07-94	1100	47.00	1524	7.12	14.5	424	2.7	6.8
		12-07-94	1101	47.00	1524	--	--	--	--	--
		03-28-95	0930	47.00	1524	18.5	11.5	277	1.7	6.9
		03-28-95	0931	47.00	1524	--	--	--	--	--
		05-04-95	1015	47.00	1524	5.43	12.5	306	2.0	7.1
		05-04-95	1016	47.00	1524	--	--	--	--	--
		05-16-95	1230	47.00	1524	11.64	12.5	329	1.1	7.1
		05-16-95	1231	47.00	1524	--	--	--	--	--
06-08-95	1230	47.00	1524	5.98	14.5	383	3.9	7.1		
06-08-95	1231	47.00	1524	--	--	--	--	--		

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- WAT WH TOT IT FIELD MG/L AS CACO3 (00419)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3 (00450)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
39S 10 (MC-18)	--	41	--	50	0.09	0.070	<0.20	<0.050	<0.010	--
	--	44	--	54	0.05	0.040	<0.20	<0.050	<0.011	1.83
	--	42	--	51	--	--	--	--	<0.010	--
	46	--	56	--	<0.04	--	--	--	<0.011	0.116
	45	--	55	--	<0.04	--	--	--	<0.011	<0.006
	40	--	49	--	<0.04	--	--	--	<0.011	<0.006
	--	--	--	--	<0.04	--	--	--	<0.011	0.193
39S 13 (MC-27)	--	--	--	--	0.10	0.080	<0.20	0.790	<0.010	--
	173	--	211	--	<0.04	--	--	--	<0.011	0.788
	171	--	209	--	<0.04	--	--	--	<0.011	0.123
	--	--	--	--	<0.04	--	--	--	<0.011	0.165
39S 14 (MC-28)	183	--	223	--	0.04	0.030	<0.20	7.00	0.060	6.94
	163	--	198	--	<0.04	--	--	--	0.062	6.86
	117	--	143	--	<0.04	--	--	--	<0.011	6.19
	150	--	183	--	<0.04	--	--	--	<0.011	3.92
	176	--	215	--	<0.04	--	--	--	0.017	7.61
	151	--	184	--	<0.04	--	--	--	<0.011	2.13
	130	--	158	--	<0.04	--	--	--	<0.011	5.48
	158	--	193	--	<0.04	--	--	--	<0.011	4.56
	--	--	--	--	<0.04	--	--	--	<0.011	5.19
39S 15 (MC-29)	138	--	168	--	--	--	--	--	--	--
	143	--	174	--	<0.04	--	--	--	<0.011	3.14
	131	--	160	--	<0.04	--	--	--	<0.011	2.94
	119	--	145	--	<0.04	--	--	--	<0.011	4.36
	120	--	145	--	<0.04	--	--	--	<0.011	0.270
	137	--	167	--	<0.04	--	--	--	<0.011	4.21
	--	--	--	--	<0.04	--	--	--	<0.011	4.28
39S 16 (MC-30)	162	--	198	--	0.15	0.120	0.30	14.0	0.170	13.8
	165	--	201	--	<0.04	--	--	--	0.210	14.4
	185	--	226	--	<0.04	--	--	--	0.029	10.9
	136	--	166	--	<0.04	--	--	--	<0.011	5.56
	143	--	174	--	<0.04	--	--	--	<0.011	6.22
	94	--	115	--	<0.04	--	--	--	<0.011	25.9
	141	--	172	--	<0.04	--	--	--	<0.011	40.1
	--	--	--	--	<0.04	0.030	<0.20	27.0	<0.011	28.2
39S 17 (MC-31)	--	141	--	172	0.03	0.020	<0.20	7.80	0.070	7.73
	142	--	173	--	<0.04	--	--	--	0.238	8.20
	107	--	130	--	<0.04	--	--	--	0.054	5.15
	158	--	193	--	<0.04	--	--	--	0.049	5.24
	148	--	180	--	<0.04	--	--	--	0.019	6.98
	153	--	187	--	<0.04	--	--	--	<0.011	5.06
	--	--	--	--	<0.04	--	--	--	<0.011	10.8
39S 19 (MC-34)	196	--	239	--	0.03	0.020	<0.20	6.00	0.030	5.97
	--	--	--	--	<0.04	--	--	--	0.106	6.19
	232	--	283	--	--	--	--	--	--	--
	127	--	155	--	<0.04	--	--	--	0.045	5.15
	189	--	230	--	<0.04	--	--	--	<0.011	4.76
	114	--	139	--	<0.04	--	--	--	<0.011	5.01
	106	--	129	--	<0.04	--	--	--	<0.011	3.20
	105	--	128	--	<0.04	--	--	--	<0.011	3.35
	167	--	204	--	<0.04	--	--	--	<0.011	4.56
	--	--	--	--	<0.04	--	--	--	<0.011	11.8

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENT- I- PIER	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4) (00653)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC, TOTAL (MG/L AS C) (00680)	CALCIUM, DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
39S 10 (MC-18)	--	0.070	0.050	--	--	--	--	--	--	--	
	<0.04	--	--	--	0.4	13	3.4	6.4	0.42	3.1	
	--	0.080	0.070	0.6	--	13	3.5	6.1	0.40	1.4	
	0.09	--	--	--	--	--	12	3.2	5.8	0.46	2.0
	<0.04	--	--	--	0.8	--	86	3.3	5.9	0.46	1.7
	<0.04	--	--	--	0.8	--	12	3.2	4.9	0.38	0.30
39S 13 (MC-27)	--	<0.010	<0.010	1.3	--	62	13	7.4	2.0	7.1	
	<0.04	--	--	0.8	--	58	13	7.1	2.2	7.5	
	<0.04	--	--	1.2	--	54	11	4.9	2.0	3.0	
	<0.04	--	--	--	--	58	11	0.38	2.1	3.2	
	39S 14 (MC-28)	--	<0.010	<0.010	0.9	--	78	5.5	4.1	1.9	7.1
	<0.04	--	--	--	--	75	5.6	3.5	1.8	7.3	
39S 14 (MC-28)	<0.04	--	--	--	--	69	5.6	2.9	1.6	6.1	
	0.07	--	--	--	--	54	3.9	1.9	0.97	4.1	
	<0.04	--	--	0.8	--	60	5.1	2.3	1.2	8.9	
	<0.04	--	--	1.2	--	73	4.0	3.7	2.0	5.1	
	<0.04	--	--	0.6	--	61	4.7	2.6	1.5	5.2	
	<0.04	--	--	2.3	--	59	4.7	2.6	1.3	4.2	
	<0.04	--	--	0.6	--	71	5.1	2.7	1.4	4.7	
	39S 15 (MC-29)	--	--	--	1.2	--	--	--	--	--	--
	<0.04	--	--	0.6	--	59	3.6	1.8	0.58	3.0	
	<0.04	--	--	0.5	--	54	4.0	2.1	0.64	2.7	
<0.04	--	--	0.5	--	55	3.9	3.8	0.93	4.6		
<0.04	--	--	0.5	--	50	3.4	2.2	0.66	0.39		
<0.04	--	--	1.1	--	57	3.8	2.2	0.63	3.0		
<0.04	--	--	--	--	58	3.9	2.4	0.54	3.5		
39S 16 (MC-30)	--	<0.010	<0.010	1.3	--	56	21	5.8	3.0	7.2	
	<0.04	--	--	--	--	60	22	5.4	3.1	7.2	
	<0.04	--	--	0.9	--	56	20	5.1	3.0	7.0	
	<0.04	--	--	1.5	--	49	20	4.4	3.0	5.6	
	<0.04	--	--	1.5	--	60	23	9.0	4.4	6.2	
	<0.04	--	--	2.0	--	60	22	8.4	4.3	11	
	<0.04	--	--	1.1	--	69	25	10	5.6	12	
	<0.04	<0.010	<0.010	--	--	67	25	8.3	4.6	11	
	39S 17 (MC-31)	--	0.040	0.030	0.9	--	41	20	6.2	2.6	6.8
	0.05	--	--	--	--	38	20	5.5	2.5	7.2	
0.01	--	--	--	--	37	19	4.1	2.3	5.7		
0.07	--	--	--	--	41	20	2.5	1.9	4.8		
<0.04	--	--	2.5	--	39	21	3.0	1.9	6.3		
<0.04	--	--	0.8	--	47	24	5.6	3.0	6.3		
<0.04	--	--	0.6	--	48	26	3.1	2.3	9.4		
39S 19 (MC-34)	--	2.40	0.150	2.0	--	64	18	11	11	6.3	
	0.28	--	--	--	--	60	19	9.8	7.7	6.6	
	0.01	--	--	--	--	65	16	9.9	8.8	6.3	
	0.08	--	--	--	--	51	16	3.1	2.2	6.7	
	0.03	--	--	0.9	--	59	17	2.2	1.7	7.7	
	<0.04	--	--	1.1	--	39	12	2.4	2.3	4.3	
	<0.04	--	--	1.3	--	41	13	2.3	3.6	4.9	
	<0.04	--	--	1.6	--	44	14	2.6	4.1	5.3	
	<0.04	--	--	0.6	--	57	17	2.7	2.4	3.9	

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY,--Continued

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH OF WELL, (FEET) (72008)	ELEV. OF LAND SURFACE DATUM, (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	TEMPERATURE (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	OXYGEN, DIS-SOLVED (MG/L) (00300)		
											PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)
39S 20 (MC-39)	383227078573702	10-25-94	1700	78.00	1737	61.74	14.0	14	--	5.3		
		10-25-94	1701	78.00	1737	--	--	--	--	--		
		12-08-94	1215	78.00	1737	62.36	12.5	168	--	2.7		
		12-08-94	1216	78.00	1737	--	--	--	--	--		
		03-29-95	1300	78.00	1737	67.8	11.5	158	--	1.7		
		03-29-95	1301	78.00	1737	--	--	--	--	--		
		06-13-95	1045	78.00	1737	--	13.5	169	--	3.7		
		06-13-95	1046	78.00	1737	--	--	--	--	--		
39S 21 (MC-23 DP-01)	383152078570903	06-21-94	1330	--	1515	--	24.5	344	--	2.6		
		09-06-94	1430	--	1515	--	20.0	332	--	0.6		
		09-06-94	1431	--	1515	--	--	--	--	--		
		09-26-94	1700	--	1515	--	19.5	333	--	0.5		
		09-26-94	1701	--	1515	--	--	--	--	--		
		10-24-94	1300	--	1515	--	15.0	348	--	--		
		10-24-94	1301	--	1515	--	--	--	--	--		
		12-06-94	1115	--	1515	--	14.5	396	--	1.8		
		12-06-94	1116	--	1515	--	--	--	--	--		
		03-27-95	1400	--	1515	--	16.0	304	--	1.6		
		03-27-95	1401	--	1515	--	--	--	--	--		
		05-03-95	1615	--	1515	--	18.0	281	--	1.3		
		05-03-95	1616	--	1515	--	--	--	--	--		
		05-15-95	1355	--	1515	--	25.0	227	--	0.7		
		05-15-95	1356	--	1515	--	--	--	--	--		
		06-07-95	1415	--	1515	--	27.0	217	--	2.6		
		06-07-95	1416	--	1515	--	--	--	--	--		
39S 29	383025078561701	06-01-95	1400	135.00	1480	41.63	13.5	656	356	6.5		
39S 30	383040078571701	06-08-95	1400	220.00	1550	37.86	13.5	460	257	5.7		
39S 31	382904078573801	06-06-95	1345	65.00	1380	37.63	13.5	501	274	5.6		
39S 32	383005078575401	06-06-95	1130	155.00	1440	31.40	13.5	654	358	1.2		
39S 33	383034078575801	06-05-95	1600	300.00	1530	93.09	13.5	555	309	6.0		
39S 34	383204078570401	05-31-95	1330	225.00	1550	43.77	13.5	475	260	1.6		
39S 35	383226078571501	06-06-95	0815	35.00	1630	22.06	12.5	310	180	4.2		
39S 36	383336078562001	06-05-95	1100	265.00	1870	127.09	13.0	335	183	5.9		
39S 38	383115078580901	06-01-95	1100	80.25	1540	36.08	13.5	404	238	2.7		
39S 39	383032078563001	06-02-95	1200	280.00	1440	36.63	14.5	475	253	4.8		
39S 20 (MC-39)		5.9	--	24	--	29	--	--	--	--		
		--	--	--	--	--	--	--	--	--		
		6.6	--	54	--	66	--	<0.04	--	--	<0.011	
		--	--	--	--	--	--	--	--	--	--	
		6.2	--	89	--	109	--	<0.04	--	--	<0.011	
		--	--	--	--	--	--	--	--	--	--	
		6.8	--	89	--	108	--	<0.04	--	--	<0.011	
		--	--	--	--	--	--	<0.04	--	--	<0.011	
39S 21 (MC-23 DP-01)		7.1	--	152	--	185	1.8	1.40	1.6	<0.050	<0.010	
		7.3	--	167	--	204	--	--	--	--	--	
		--	--	--	--	--	--	<0.04	--	--	<0.011	
		7.2	--	170	--	207	--	--	--	--	--	
		--	--	--	--	--	--	<0.04	--	--	<0.011	
		7.2	--	172	--	210	--	--	--	--	--	
		--	--	--	--	--	--	<0.04	--	--	0.023	
		7.2	--	195	--	238	--	--	--	--	--	
		--	--	--	--	--	--	<0.04	--	--	<0.011	
		6.9	--	141	--	172	--	<0.04	--	--	<0.011	
		--	--	--	--	--	--	<0.04	--	--	<0.011	
		7.4	--	108	--	132	--	<0.04	--	--	<0.011	
--	--	--	--	--	--	<0.04	--	--	<0.011			
7.2	--	77	--	94	--	<0.04	--	--	<0.011			
--	--	--	--	--	--	<0.04	--	--	<0.011			
8.5	--	121	--	148	--	<0.04	--	--	<0.011			
--	--	--	--	--	--	<0.04	--	--	<0.011			
39S 29		7.3	--	241	--	294	--	0.03	0.020	<0.20	5.20	<0.010
39S 30		7.5	--	205	--	250	--	0.03	0.020	<0.20	3.40	<0.010
39S 31		7.5	--	166	--	202	--	--	<0.015	<0.20	6.80	<0.010
39S 32		7.2	--	286	--	349	--	--	<0.015	<0.20	3.50	<0.010
39S 33		7.4	--	234	--	285	--	0.03	0.020	<0.20	8.20	<0.010
39S 34		7.4	--	218	--	266	--	0.03	0.020	<0.20	3.50	<0.010
39S 35		7.4	--	126	--	154	--	0.03	0.020	<0.20	2.60	<0.010
39S 36		7.7	--	175	--	214	--	0.14	0.110	<0.20	0.240	<0.010
39S 38		7.5	--	161	--	196	--	0.03	0.020	<0.20	4.30	<0.010
39S 39		7.4	--	210	--	256	--	0.03	0.020	<0.20	3.40	<0.010

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	PHOSPHATE, DIS-SOLVED (MG/L AS PO4) (00653)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC, DIS-SOLVED (MG/L AS C) (00681)	CALCIUM, DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)
39S 20 (MC-39)	0.221	<0.04	---	---	0.6	11	0.79	1.0	0.37	0.93
	0.075	<0.04	---	---	0.4	28	1.6	1.2	0.27	0.61
	0.068	<0.04	---	---	0.3	30	1.5	0.97	0.26	0.67
39S 21 (MC-23 DP-01)	0.038	<0.04	---	---	0.3	33	2.1	0.08	0.25	0.53
	---	---	0.410	0.160	1.7	50	4.8	1.8	5.4	3.2
	0.182	0.13	---	---	---	45	3.9	2.0	1.2	1.1
	0.013	<0.04	---	---	---	59	4.7	1.8	3.6	3.8
	0.004	<0.04	---	---	---	55	4.9	1.8	3.2	5.4
	0.028	0.04	---	---	4.8	57	5.2	2.1	9.2	6.1
	<0.006	<0.04	---	---	2.8	45	4.0	2.0	4.9	3.4
	0.164	<0.04	---	---	6.2	36	3.1	1.7	4.6	4.3
	0.049	<0.04	---	---	4.6	40	3.4	1.8	5.6	2.0
	0.006	<0.04	---	---	1.9	48	4.2	1.8	3.1	2.2
39S 29	---	---	<0.010	<0.010	0.4	65	36	11	1.0	32
39S 30	---	---	<0.010	<0.010	0.3	56	26	1.4	1.5	3.8
39S 31	---	---	<0.010	<0.010	14	55	30	2.8	2.1	7.8
39S 32	---	---	<0.010	<0.010	0.3	79	36	2.3	1.7	6.5
39S 33	---	---	<0.010	<0.010	0.3	57	32	5.7	1.8	13
39S 34	---	---	<0.010	0.010	0.5	58	24	2.2	1.0	5.1
39S 35	---	---	<0.010	0.020	0.7	55	3.8	2.0	1.3	3.6
39S 36	---	---	<0.010	<0.010	0.8	54	6.0	6.9	0.60	0.70
39S 38	---	---	0.010	<0.010	0.5	56	17	2.3	0.70	6.3
39S 39	---	---	<0.010	0.010	0.3	54	26	2.0	1.0	6.3

LOCAL IDENTIFIER	SULFATE, DIS-SOLVED (MG/L AS SO4) (00945)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE, DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	RADON 222 TOTAL (PCI/L) (82303)	TRITIUM TOTAL (PCI/L) (07000)
39S 20 (MC-39)	1.7	<0.007	---	7.2	<11	25	14	6	---	---
	2.5	<0.007	---	6.6	21	7	120	60	---	---
	2.3	<0.007	---	7.7	37	7	110	40	280	---
39S 21 (MC-23 DP-01)	1.8	<0.007	---	7.1	190	54	130	210	---	---
	0.70	<0.10	<0.010	8.7	3600	360	---	---	---	---
	10	<0.007	---	9.5	43	8	190	120	---	---
	1.5	<0.007	---	9.0	3400	330	180	80	---	---
	1.9	<0.007	---	4.7	2900	290	190	80	---	---
	3.6	0.04	---	6.2	2700	280	230	130	---	---
	6.4	<0.007	---	6.0	1900	220	150	60	---	---
	3.6	<0.007	---	7.7	2500	260	120	60	---	---
	1.7	<0.007	---	7.9	2500	300	140	120	---	---
	2.0	<0.007	---	6.6	3100	340	180	100	91	43
39S 29	9.3	<0.10	0.070	7.6	<3	<1	---	---	---	50
39S 30	7.8	<0.10	0.030	8.8	6	<1	---	---	250	---
39S 31	9.2	<0.10	0.030	7.1	<3	<1	---	---	430	---
39S 32	28	<0.10	0.050	9.3	8	2	---	---	380	---
39S 33	5.4	<0.10	0.040	11	7	2	---	---	210	---
39S 34	7.8	0.30	0.030	8.0	6	3	---	---	190	---
39S 35	7.1	<0.10	0.020	8.5	18	<1	---	---	290	---
39S 36	1.9	0.20	0.030	9.6	<3	1	---	---	150	17
39S 38	7.7	<0.10	0.040	8.0	<3	<1	---	---	---	---
39S 39	7.4	0.10	0.040	7.1	<3	<1	---	---	200	---

QUALITY OF GROUND WATER

WATER QUALITY DATA (NATIONAL WATER-QUALITY ASSESSMENT PROGRAM), WATER YEARS OCTOBER 1993 TO SEPTEMBER 1995

ROCKINGHAM COUNTY--Continued

LOCAL IDENTIFIER	STATION NUMBER	DATE	ACETO-CHLOR, WATER, FLTRD REC (UG/L)	ALA-CHLOR, WATER, DISS, REC, (UG/L)	ATRA-ZINE, WATER, DISS, REC (UG/L)	DEETHYL ZINE, WATER, DISS, REC (UG/L)	BEN-FLUR-ALIN WAT PLD GF, REC (UG/L)	ALPHA BHC DIS-SOLVED (UG/L)	BUTYL-ATE, WATER, DISS, REC (UG/L)	CARBO-FURAN WATER 0.7 U GF, REC (UG/L)
39S 1 (MC-03)	383156078571001	06-22-94	--	<0.009	0.042	0.027	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.022	0.033	<0.013	<0.007	<0.008	<0.013
		06-07-95	<0.009	<0.009	E0.005	E0.012	<0.013	<0.007	<0.008	<0.013
39S 2 (MC-04)	383152078570901	06-21-94	--	<0.009	0.200	0.038	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.035	0.026	<0.013	<0.007	<0.008	<0.013
		12-07-94	--	<0.009	E0.016	E0.008	<0.013	<0.007	<0.008	<0.013
		03-27-95	<0.009	<0.009	E0.010	E0.008	<0.013	<0.007	<0.008	<0.013
		05-03-95	<0.009	<0.009	E0.010	E0.009	<0.013	<0.007	<0.008	<0.013
		05-16-95	<0.009	<0.009	0.022	E0.006	<0.013	<0.007	<0.008	<0.013
		06-08-95	<0.009	<0.009	E0.009	E0.004	<0.013	<0.007	<0.008	<0.013
39S 3 (MC-07)	383153078571001	06-22-94	--	<0.009	0.360	0.084	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.190	0.180	<0.013	<0.007	<0.008	<0.013
		03-28-95	<0.009	<0.009	0.074	E0.095	<0.013	<0.007	<0.008	<0.013
		06-08-95	<0.009	<0.009	0.220	E0.049	<0.013	<0.007	<0.008	<0.013
39S 4 (MC-08)	383155078571201	04-14-94	--	<0.009	0.020	<0.020	<0.013	<0.007	<0.008	<0.013
		06-23-94	--	<0.009	0.062	0.030	<0.013	<0.007	<0.008	<0.013
		09-06-94	--	<0.009	0.120	0.054	<0.013	<0.007	<0.008	<0.013
		09-27-94	--	<0.009	0.093	E0.057	<0.013	<0.007	<0.008	<0.013
		10-25-94	--	<0.009	0.065	E0.045	<0.013	<0.007	<0.008	<0.013
		12-06-94	--	<0.009	0.055	E0.039	<0.013	<0.007	<0.008	<0.013
		03-28-95	<0.009	<0.009	0.040	E0.045	<0.013	<0.007	<0.008	<0.013
		05-04-95	<0.009	<0.009	0.042	E0.036	<0.013	<0.007	<0.008	<0.013
		05-16-95	<0.009	<0.009	0.190	E0.048	<0.013	<0.007	<0.008	<0.013
		06-08-95	<0.009	<0.009	0.045	E0.030	<0.013	<0.007	<0.008	<0.013
39S 5 (MC-09)	383159078571101	06-23-94	--	<0.009	<0.017	<0.007	<0.013	<0.007	<0.008	<0.013
		09-08-94	--	<0.009	0.005	0.001	<0.013	<0.007	<0.008	<0.013
39S 6 (MC-10)	383202078571201	06-08-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		06-20-94	--	<0.009	0.006	<0.007	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.004	0.003	<0.013	<0.007	<0.008	<0.013
		03-28-95	<0.009	<0.009	E0.004	E0.003	<0.013	<0.007	<0.008	<0.013
39S 7 (MC-11)	383203078571301	06-22-94	--	<0.009	<0.017	<0.007	<0.013	<0.007	<0.008	<0.013
		06-06-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.026	0.004	<0.013	<0.007	<0.008	<0.013
39S 9 (MC-17)	383152078570902	06-21-94	--	<0.009	0.006	0.005	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.006	0.005	<0.013	<0.007	<0.008	<0.013
		12-06-94	--	<0.009	E0.004	E0.004	<0.013	<0.007	<0.008	<0.013
		03-27-95	<0.009	<0.009	E0.002	E0.002	<0.013	<0.007	<0.008	<0.013
39S 10 (MC-18)	383224078574801	06-20-94	--	<0.009	<0.017	<0.007	<0.013	<0.007	<0.008	<0.013
		06-05-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.034	0.035	<0.013	<0.007	<0.008	<0.013
39S 13 (MC-27)	383151078570902	03-28-95	<0.009	<0.009	E0.008	E0.018	<0.013	<0.007	<0.008	<0.013
		06-09-95	<0.009	<0.009	E0.011	E0.006	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.034	0.035	<0.013	<0.007	<0.008	<0.013
39S 14 (MC-28)	383211078574001	09-08-94	--	<0.009	2.10	0.960	<0.013	<0.007	<0.008	<0.013
		12-07-94	--	<0.009	0.200	E0.086	<0.013	<0.007	<0.008	<0.013
		03-27-95	<0.009	<0.009	1.50	E1.00	<0.013	<0.007	<0.008	<0.013
		05-03-95	<0.009	<0.009	0.630	E0.370	<0.013	<0.007	<0.008	<0.013
		05-15-95	<0.009	<0.009	0.390	E0.310	<0.013	<0.007	<0.008	<0.013
		06-05-95	<0.009	<0.009	0.510	E0.390	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.041	E0.020	<0.013	<0.007	<0.008	<0.013
39S 15 (MC-29)	383211078574002	03-27-95	<0.009	<0.009	0.084	E0.091	<0.013	<0.007	<0.008	<0.013
		05-03-95	<0.009	<0.009	0.057	E0.043	<0.013	<0.007	<0.008	<0.013
		05-15-95	<0.009	<0.009	0.110	E0.028	<0.013	<0.007	<0.008	<0.013
		06-05-95	<0.009	<0.009	0.036	E0.028	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.930	0.520	<0.013	<0.007	<0.008	<0.013
39S 16 (MC-30)	383211078573201	12-08-94	--	<0.009	0.280	E0.120	<0.013	<0.007	<0.008	<0.013
		03-29-95	<0.009	<0.009	0.440	E0.350	<0.013	<0.007	<0.008	<0.013
		05-03-95	<0.009	<0.009	0.520	E0.320	<0.013	<0.007	<0.008	<0.013
		05-15-95	<0.009	<0.009	0.430	E0.370	<0.013	<0.007	<0.008	<0.013
		06-06-95	<0.009	<0.009	0.390	E0.250	<0.013	<0.007	<0.008	<0.013
		09-06-94	--	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		12-07-94	--	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		03-29-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
39S 17 (MC-31)	383203078571901	06-06-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	0.190	0.130	<0.013	<0.007	<0.008	<0.013
		12-07-94	--	<0.009	0.073	E0.053	<0.013	<0.007	<0.008	<0.013
		03-28-95	<0.009	<0.009	0.048	E0.050	<0.013	<0.007	<0.008	<0.013
		05-04-95	<0.009	<0.009	0.048	E0.049	<0.013	<0.007	<0.008	<0.013
39S 19 (MC-34)	383155078571202	05-16-95	<0.009	<0.009	0.390	E0.033	<0.013	<0.007	<0.008	<0.013
		06-08-95	<0.009	<0.009	0.050	E0.039	<0.013	<0.007	<0.008	<0.013
		09-07-94	--	<0.009	<0.017	<0.007	<0.013	<0.007	<0.008	<0.013
		12-08-94	--	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		03-29-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
39S 20 (MC-39)	383227078573702	06-13-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
		06-21-94	--	<0.009	0.200	0.016	<0.013	<0.007	<0.008	<0.013
		09-06-94	--	<0.009	0.011	0.003	<0.013	<0.007	<0.008	<0.013
		12-06-94	--	<0.009	E0.006	E0.004	<0.013	<0.007	<0.008	<0.013
		03-27-95	<0.009	<0.009	E0.007	E0.004	<0.013	<0.007	<0.008	<0.013
39S 21 (MC-23 DP-01)	383152078570903	05-03-95	<0.009	<0.009	E0.014	E0.005	<0.013	<0.007	<0.008	<0.013
		05-15-95	<0.009	<0.009	0.063	E0.005	<0.013	<0.007	<0.008	<0.013
		06-07-95	<0.009	<0.009	E0.007	<0.003	<0.013	<0.007	<0.008	<0.013
		06-01-95	<0.009	<0.009	0.031	E0.019	<0.013	<0.007	<0.008	<0.013
		06-08-95	<0.009	<0.009	0.077	E0.082	<0.013	<0.007	<0.008	<0.013
39S 29	383025078561701	06-01-95	<0.009	<0.009	0.031	E0.019	<0.013	<0.007	<0.008	<0.013
39S 30	383040078571701	06-08-95	<0.009	<0.009	0.077	E0.082	<0.013	<0.007	<0.008	<0.013
39S 31	382904078573801	06-06-95	<0.009	<0.009	0.280	E0.140	<0.013	<0.007	<0.008	<0.013
39S 32	383005078575401	06-06-95	<0.009	<0.009	0.047	E0.043	<0.013	<0.007	<0.008	<0.013
39S 33	383034078575801	06-05-95	<0.009	<0.009	<0.017	<0.003	<0.013	<0.007	<0.008	<0.013
39S 34	383204078570401	05-31-95	<0.009	<0.009	0.022	E0.016	<0.013	<0.007	<0.008	<0.013
39S 35	383226078571501	06-06-95	<0.009	<0.009	<0.017	E0.002	<0.013	<0.007	<0.008	<0.013
39S 38	383115078580901	06-01-95	<0.009	<0.009	0.089	E0.042	<0.013	<0.007	<0.008	<0.013
39S 39	383032078563001	06-02-95	<0.009	<0.009	E0.013	E0.015	<0.013	<0.007		

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
3600 W. Broad Street, Room 606
Richmond, VA 23230
