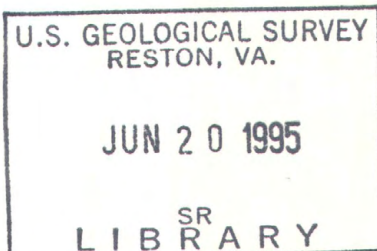
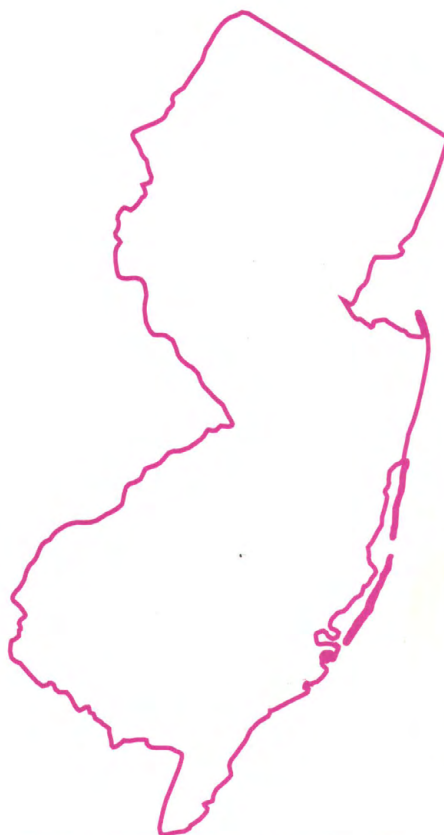


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Water Resources Data New Jersey Water Year 1994

Volume 2. Ground-Water Data



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-94-2
Prepared in cooperation with the New Jersey Department
of Environmental Protection and with other agencies

CALENDAR FOR WATER YEAR 1994

1993

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1994

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31																				



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Water Resources Division
Mountain View Office Park
810 Bear Tavern Road, Suite 206
West Trenton, New Jersey 08628

I am pleased to announce the release of our Annual report "Water Resources Data for New Jersey, Water Year 1994". This report was prepared by the U.S. Geological Survey, in cooperation with the State of New Jersey as well as local and federal government agencies.

This report is being published again in two volumes:

Volume 1.—Surface-water data.

Volume 2.—Ground-water data.

This volume contains ground-water data, such as measurements of water levels and water quality, made for wells in New Jersey. The report has been expanded to provide more information about each well for which manual measurements were made, and hydrographs are now included for all wells listed in the ground-water-level section. Current ground-water-level data are presented for active ground-water-level sites followed by a table containing data for selected discontinued sites. Measurements of ground-water quality from three well networks also are included in the report. The water-level and water-quality sections are cross-referenced for ease in locating wells that have both water-quality and water-level data.

Copies of this report in paper or microfiche are for sale through the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. Data can also be provided in various machine-readable formats on magnetic tape or 5-1/4 inch and 3-1/2 inch floppy disk. Beginning with the 1990 water year, all water-data reports are also available on Compact Disc - Read Only Memory (CD-ROM). When ordering, refer to U.S. Geological Survey Water-Data Report NJ-94-1 (for Volume 1) and NJ-94-2 (for Volume 2). For further information on this report, or to change or remove your address from our mailing list, please contact me at the above address or telephone (609) 771-3980.

Sincerely,

William R. Bauersfeld, Chief
Hydrologic Data Assessment Program



Water Resources Data New Jersey Water Year 1994

Volume 2. Ground-Water Data

by W.R. Bauersfeld, W.D. Jones, and C.E. Gurney



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-94-2
Prepared in cooperation with the New Jersey Department
of Environmental Protection and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Gordon P. Eaton, Director

For information on the water program in New Jersey write to:

District Chief, Water Resources Division
U.S. Geological Survey
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810 Bear Tavern Road, Suite 206
West Trenton, New Jersey 08628

PREFACE

This volume of the annual hydrologic data report of New Jersey is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and water quality provide the hydrologic information needed by state, local, and federal agencies, and the private sector for developing and managing our Nation's land and water resources.

Hydrologic data for New Jersey are contained in 2 volumes:

Volume 1. Surface-Water Data

Volume 2. Ground-Water Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the completion of the report.

Jacob Gibs

G. Allan Brown

Edward W. Moshinsky

George M. Farlekas

M.D. Morgan word processed the text of the report, and G.L. Simpson and D.K. Sun prepared the illustrations.

The data were collected, computed, and processed by the following U.S. Geological Survey personnel:

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Some water-quality samples were collected by the following N.J. Department of Environmental Protection:

A.A. Altieri

R. Maruska

J.R. Spiritosanto

R.F. Fenton

J.R. Specht

This report was prepared in cooperation with the State of New Jersey and with other agencies under the general supervision of Eric J. Evenson, Assistant District Chief for Hydrologic Data Assessment and Information Management; Janice R. Ward, District Chief, New Jersey; Donald E. Vaupel, Program Officer, Northeast Region; and William J. Carswell, Jr., Regional Hydrologist, Northeastern Region.

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6. AUTHOR(S) W.R. Bauersfeld, W.D. Jones, and C.E. Gurney				
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13. ABSTRACT (Maximum 200 words) Water-resources data for the 1994 water year for New Jersey are presented in two volumes, and consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. Volume 2 contains records of ground-water levels from 170 wells and water-quality analyses of ground water from 51 wells. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating Federal, State, and local agencies in New Jersey.				
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GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVEL RECORDS

	NJ-WRD WELL NUMBER	PAGE
<u>ATLANTIC COUNTY</u>		
ACOW 2 Obs.....	01-710.....	22
Jobs Point Obs	01-578.....	23
Margate Firehouse 1 Obs	01-834.....	24
Burk Ave TW Obs	01-702.....	25
Galen Hall Obs.....	01-037.....	26
Oceanville 1 Obs.....	01-180.....	27
FAA Pomona Obs	01-703.....	28
FAA Intermediate Obs	01-775.....	29
FAA Shallow Obs	01-776.....	30
Scholler 1 Obs.....	01-256.....	31
<u>BERGEN COUNTY</u>		
Saddle River 17 Obs	03-289.....	32
<u>BURLINGTON COUNTY</u>		
Mount Obs	05-570.....	33
Atsion 1 Obs	05-407.....	34
Atsion 2 Obs	05-408.....	35
Atsion 3 Obs	05-409.....	36
Penn SF Shallow Obs	05-628.....	37
Penn SF Deep Obs	05-630.....	38
Coyle Airport Obs.....	05-676.....	39
Butler Place 1 Obs	05-683.....	40
Butler Place 2 Obs	05-684.....	41
Lebanon SF 23-D Obs	05-689.....	42
Medford Twp MW-1 Obs.....	05-1155.....	43
Medford 1 Obs	05-258.....	44
Medford 2 Obs	05-259.....	45
Medford 5 Obs	05-261.....	46
Medford 4 Obs	05-262.....	47
Campbell 1 Obs	05-274.....	48
Willingboro 2 Obs.....	05-645.....	49
Willingboro 1 Obs.....	05-063.....	50
Rhodia 1 Obs	05-440.....	51
<u>CAMDEN COUNTY</u>		
New Brooklyn Park 1 Obs	07-476.....	52
New Brooklyn Park 2 Obs	07-477.....	53
New Brooklyn Park 3 Obs	07-478.....	54
Winslow 5 Obs.....	07-503.....	55
Elm Tree 2 Obs	07-412.....	56
Elm Tree 3 Obs	07-413.....	57
Hutton Hill 1 Obs.....	07-117.....	58
Hutton Hill 2 Obs.....	07-118.....	59
Egbert Obs	07-283.....	60
<u>CAPE MAY COUNTY</u>		
West Cape May 1 Obs.....	09-150.....	61
Traffic Circle Obs.....	09-020.....	62
Coast Guard 800 Obs	09-302.....	63
Canal 5 Obs.....	09-048.....	64
Higbee Beach 3 Obs	09-049.....	65
M-1 N Wildwood 800 Obs.....	09-337.....	66
Airport 7 Obs	09-060.....	67
Pump Pond N. Obs.....	09-333.....	68

GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVEL RECORDS

	NJ-WRD WELL NUMBER	PAGE
<u>CAPE MAY COUNTY--Cont'd</u>		
Cape May 23 Obs	09-081	69
Cape May 42 Obs	09-080	70
Oyster 800 Obs	09-306	71
Oyster Lab 4 Obs	09-08	72
Cape May County Park 8 Obs	09-099	73
<u>CUMBERLAND COUNTY</u>		
Heislerville 1 Obs	11-118	74
Heislerville 2 Obs	11-119	75
Jones Island 2 Obs	11-096	76
Jones Island 1 Obs	11-097	77
Sheppards 2 Obs	11-073	78
Ragovin 2100 Obs	11-137	79
Fair Grounds 3 Obs	11-163	80
Vocational School 2 Obs	11-042	81
Vocational School 1 Obs	11-043	82
Vocational School 3 Obs	11-044	83
Natural Area 1 Obs	11-237	84
<u>ESSEX COUNTY</u>		
Christ Church 2 Obs	13-095	85
Canoe Brook 30 Obs	13-013	86
Neutral Zone Obs	13-014	87
East Orange 28 Obs	13-094	88
East Orange Shallow Obs	13-096	89
<u>GLOUCESTER COUNTY</u>		
Newfield 2-A Obs	15-372	90
WTMUA Monitoring 1 Obs	15-1033	91
Mantua Shallow Obs	15-741	92
Mantua Deep Obs	15-742	93
Stefka 1 Obs	15-712	94
Stefka 2 Obs	15-713	95
Stefka 3 Obs	15-727	96
Stefka 4 Obs	15-728	97
Shell 5 Obs	15-296	98
Shell 6 Obs	15-297	99
Deptford Deep Obs	15-671	100
Eagle Point 3 Obs	15-323	101
<u>HUNTERDON COUNTY</u>		
Corsalo Rd TB 1 Obs	19-251	102
Bird Obs	19-002	103
Environmental Ctr 1 Obs	19-276	104
Readington School 11 Obs	19-270	105
<u>MERCER COUNTY</u>		
Civil Defense Obs	21-028	106
Bristol-Myers 100 Obs	21-289	107
Cranston Farms 15 Obs	21-364	108
WW MW-2 Obs	21-395	109
Washington Crossing Pk 14 Obs	21-366	110
SBMWA Honey Branch 10 Obs	21-088	111
AT&T North Obs	21-365	112

GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVEL RECORDS

	NJ-WRD <u>WELL NUMBER</u>	PAGE
<u>MIDDLESEX COUNTY</u>		
Plainsboro Pond Obs.....	23-273.....	113
Forsgate 3 Obs.....	23-228.....	114
Forsgate 4 Obs.....	23-229.....	115
Forsgate 1 Obs.....	23-291.....	116
Forsgate 2 Obs.....	23-292.....	117
Morrell 1 Obs.....	23-104.....	118
Runyon 1 Obs.....	23-194.....	119
Fischer Obs.....	23-070.....	120
SWD 2 Obs.....	23-344.....	121
SWD 1 Obs.....	23-351.....	122
Duh Say 4 Obs.....	23-365.....	123
SRWD 2 Obs.....	23-439.....	124
Rutgers Golf 13 Obs.....	23-1165.....	125
Test 1 Obs.....	23-482.....	126
<u>MONMOUTH COUNTY</u>		
DOE-Sea Girt Obs.....	25-486.....	127
Allaire State Park C Obs.....	25-429.....	128
Howell Twp 1 Obs.....	25-635.....	129
Howell Twp 2 Obs.....	25-636.....	130
Howell Twp 3 Obs.....	25-637.....	131
Howell Twp 4 Obs.....	25-638.....	132
Howell Twp 5 Obs.....	25-639.....	133
Fort Monmouth 1-NCO Obs.....	25-353.....	134
Village 215 Obs.....	25-250.....	135
Marlboro 1 Obs.....	25-272.....	136
AHWD B Obs.....	25-715.....	137
Sandy Hook SP 1 Obs.....	25-316.....	138
Keyport 4 Obs.....	25-206.....	139
<u>MORRIS COUNTY</u>		
Recreation Fld Obs.....	27-001.....	140
MBWD 4 Obs.....	27-017.....	141
Madison 8 Obs.....	27-1197.....	142
Briarwood School Obs.....	27-012.....	143
Esso Six Inch Obs.....	27-014.....	144
Drew University Farm Obs.....	27-1303.....	145
W B Driver 2 Obs.....	27-003.....	146
Test 2 Obs.....	27-015.....	147
Clemens Obs.....	27-004.....	148
Sandoz Obs.....	27-005.....	149
Mt Freedom 2 Obs.....	27-023.....	150
Black River 10 Obs.....	27-1190.....	151
Green Acres Obs.....	27-006.....	152
Troy Meadows 1 Obs.....	27-020.....	153
Roxbury 1 Obs.....	27-1191.....	154
Int Pipe Obs.....	27-022.....	155
Morris Maint Yd 22 Obs.....	27-1192.....	156
Berkshire Valley 9 Obs.....	27-027.....	157
Green Pond 5 Obs.....	27-028.....	158

GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVEL RECORDS

	NJ-WRD WELL NUMBER	PAGE
<u>OCEAN COUNTY</u>		
Garden St Pky 1 Obs.....	29-513	159
Garden St Pky 2 Obs.....	29-514	160
Island Beach 1 Obs	29-017	161
Island Beach 2 Obs	29-018	162
Island Beach 3 Obs	29-019	163
Island Beach 4 Obs	29-020	164
DOE-Forked River Obs	29-585	165
Webbs Mills 2 Obs	29-425	166
Toms River 2 Obs	29-534	167
Toms River 84 Obs	29-085	168
Fort Dix RLF-30 Obs.....	29-1059	169
Mantoloking 6 Obs	29-503	170
LNAS-EC Obs	29-1060	171
Colliers Mills 1 Obs	29-138	172
Colliers Mills 2 Obs	29-139	173
Colliers Mills 3 Obs	29-140	174
Colliers Mills 4 Obs	29-141	175
PPWD 6 Obs	29-530	176
<u>SALEM COUNTY</u>		
Salem 1 Obs	33-251	177
Salem 2 Obs	33-252	178
Salem 3 Obs	33-253	179
Horner Obs	33-020	180
Point Airy Obs	33-187	181
Penns Grove 14 Obs	33-348	182
<u>SUSSEX COUNTY</u>		
Whittingham 19 Obs	37-203	183
Swartswood Park 5 Obs	37-205	184
Fairgrounds 7 Obs	37-206	185
Taylor Obs	37-202	186
Walpack Twp 4 Obs	37-207	187
<u>UNION COUNTY</u>		
White Lab 3 Obs	39-102	188
White Lab 4 Obs	39-115	189
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Schweitzer Obs	39-058	191

GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

QUALITY OF GROUND WATER RECORDS

	NJ-WRD WELL NUMBER	PAGE
<u>ATLANTIC COUNTY</u>		
Margate Firehouse 1 Obs	01-834	195
Mizpah Shallow	01-712	195
<u>BURLINGTON COUNTY</u>		
Mullica 52S	05-415	198
Mullica 3D Obs	05-454	198
Test Hole 1-74	05-695	195
<u>CAMDEN COUNTY</u>		
New Brooklyn Park 2 Obs	07-477	195
New Brooklyn Park 3 Obs	07-478	195
<u>CAPE MAY COUNTY</u>		
West Cape May 1 Obs	09-150	196
USCG 2	09-018	196
Canal 5 Obs	09-048	196
Roslyn Ave Obs Shallow	09-352	196
Roslyn Ave Obs Deep	09-353	196
Cape May C-1	09-210	196
Herefd/Bishop 2-1986 PVC	09-338	196
Cape May F-41	09-213	196
Cape May F-42	09-217	196
BSR-6	09-208	196
Cape May F-37	09-189	196
Cape May F-36	09-188	196
Cape May F-35	09-187	196
Wetlands 1 Obs	09-292	196
Rutgers Oyster Lab	09-192	196
Oyster Lab 4 Obs	09-089	196
<u>HUNTERDON COUNTY</u>		
Hunter Rd TB 3 Obs	19-249	199
NJ Water Auth MW3	19-332	199
Wasabaugh Dom E	19-239	199
Albert Elias Res Ctr MW4	19-329	199
Copper Hill CC MW-1	19-326	199
Quakertown El Sch MW-1	19-330	199
Readington School 11 Obs	19-270	199
Stanton Prop MW-1	19-331	199
Rolling Hills Care MW-1	19-327	199
Oldwick WP Control MW-1R	19-328	199
<u>MERCER COUNTY</u>		
Cadwalader Park MW-U5	21-414	203
<u>MIDDLESEX COUNTY</u>		
Prnctn Pl Phy Lab P-1	23-1249	205
Prnctn Pl Phy Lab MW-12S	23-1250	205
<u>MONMOUTH COUNTY</u>		
UB Water Tower	25-567	197
JCP&L	25-568	197
<u>MORRIS COUNTY</u>		
Drew University Farm Obs	27-1303	207
Mt Olive HS MW1	27-1795	207
<u>OCEAN COUNTY</u>		
Island Beach 2 Obs	29-018	197
Island Beach 3 Obs	29-019	197

**GROUND WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS
VOLUME**

QUALITY OF GROUND WATER RECORDS

	NJ-WRD	
<u>SALEM COUNTY</u>	<u>WELL NUMBER</u>	
Bostwick No 3	33-002	197
Salem 1 Obs	33-251	197
Point Airy Obs	33-187	197
<u>SOMERSET COUNTY</u>		
Princeton Montessori Sch	35-086	209
Carrier Fdn STP	35-084	209
Alma White College MW3	35-087	209
Alma White College MW4	35-088	209
Harrisons Brook STP MW-5	35-085	209
<u>WARREN COUNTY</u>		
Brandywine at Bdwy MW-E	41-293	212

WATER RESOURCES DATA - NEW JERSEY, 1994

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, gathers a large amount of data pertaining to the water resources of New Jersey 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 - New Jersey."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water. Volume 2 contains records of water quality at 51 wells and water levels in 170 wells. Locations of these sites are shown on figures 4 and 5. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in New Jersey.

This series of annual reports for New Jersey 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. For the 1975 through 1989 water years, 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 1977 water year, these data were published in two volumes. Beginning with the 1990 water year, the report format was changed to include surface-water and surface-water-quality data in Volume 1 and ground-water-level and ground-water-quality data in Volume 2.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for New Jersey were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part 1B." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado, 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 NJ-94-2." 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, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (609) 771-3900. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

New Jersey Department of Environmental Protection, Robert C. Shinn, Jr., Commissioner.

County of Gloucester, Robert V. Scolpino, Director of Planning.

Atlantic Highlands Water Department, Frank Dougherty, Superintendent.

Medford Township Department of Municipal Utilities, Bruce Eichmann, Sr., Director

Washington Township Municipal Utilities Authority, Paul R. DeCosta, Superintendent.

SUMMARY OF HYDROLOGIC CONDITIONS

Ground-Water Levels

Ground-water levels fluctuate in response to such factors as recharge from precipitation, discharge of ground water to streams, changes in atmospheric pressure, evapotranspiration, and ground-water withdrawals from wells. In addition, tidal fluctuations affect water levels in aquifers near oceans, bays, and estuaries. When recharge to the ground-water system exceeds discharge, water levels rise; conversely, when discharge from wells, to surface-water bodies, or to the atmosphere through evapotranspiration exceeds recharge, water levels decline. Records of water levels in wells, therefore, are useful in evaluating seasonal and long-term changes in ground-water storage and local and regional effects of pumping from wells (Rooney, 1971, p. 20).

Changes in ground-water levels during the 1994 water year were determined from a Statewide network of observation wells. Ground-water levels in many water-table observation wells were nearly equal to their long-term averages at the beginning of the water year. Water levels rose to above average during February, and generally remained above average throughout the spring and summer.

Water levels in observation wells that tap the heavily pumped confined aquifers in the southern part of the Coastal Plain continued to undergo long-term net declines, whereas water levels continued to rise dramatically in the confined aquifers in the northern part of the Coastal Plain (Monmouth, eastern Middlesex, and northern Ocean Counties). The greatest water-level decline in an observation well in the 1994 water year occurred in the New Brooklyn Park 3 observation well screened in the Wenonah-Mount Laurel aquifer in Camden County (NJ-WRD well number 07-0478), where the previous record low was exceeded by 6.99 feet. The water level in this well has declined a total of 45.2 feet since April 1983. Other aquifers in the southern New Jersey Coastal Plain in which water levels fell below previous lows of record include the Potomac-Raritan-Magothy aquifer system, the Piney Point aquifer, and the Atlantic City 800-foot sand of the Kirkwood Formation.

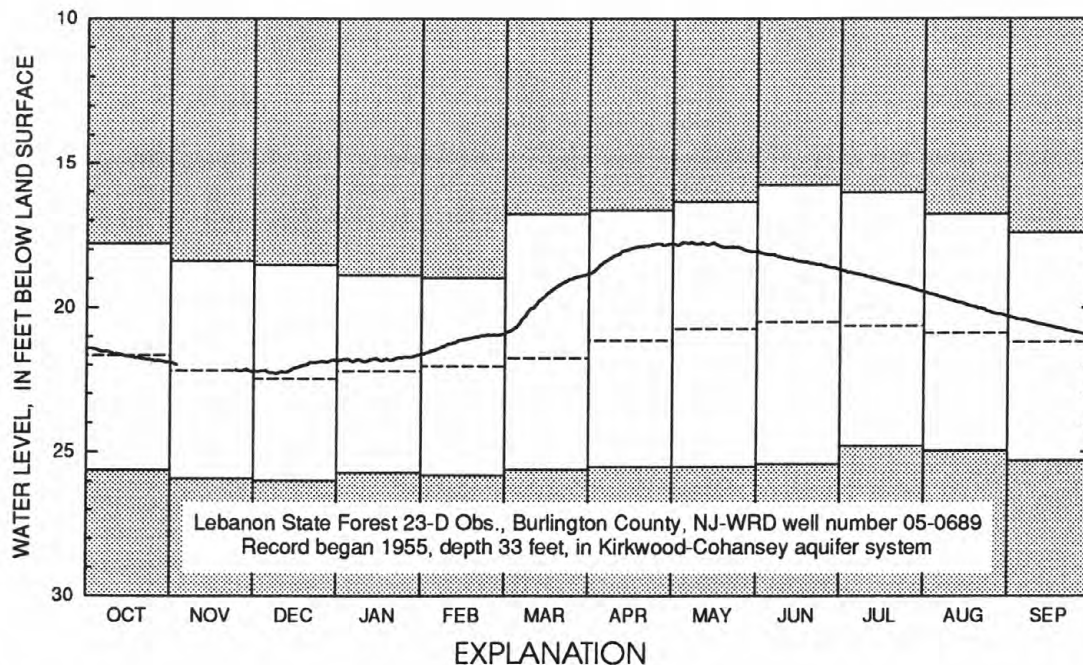
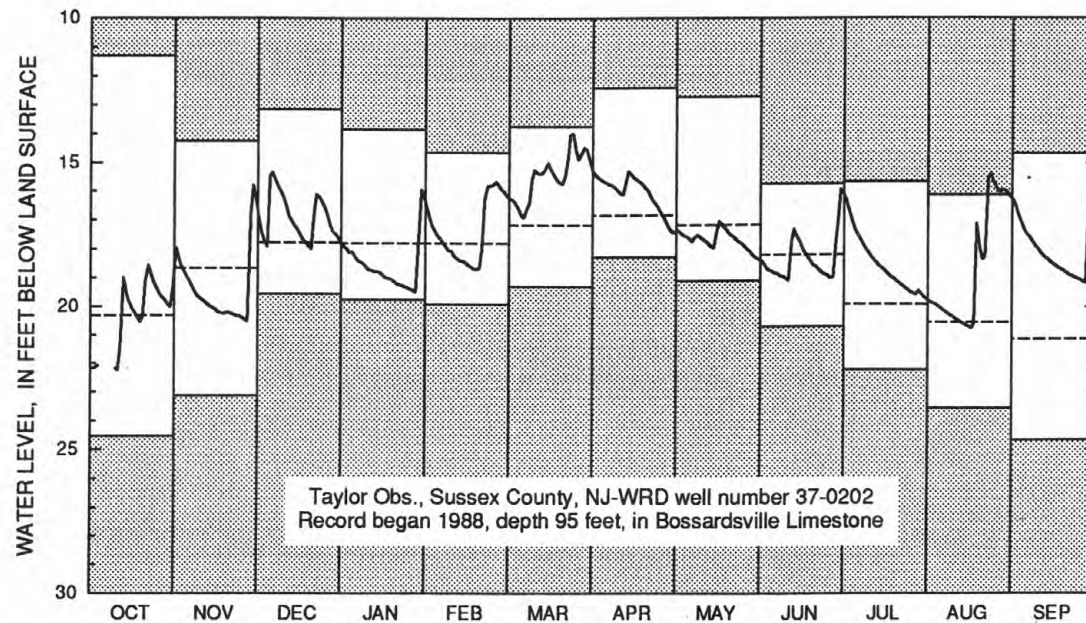
Near the beginning of the 1991 water year, long-term declines in water levels reversed in several observation wells screened in the deep confined aquifers in the northern part of the Coastal Plain (Monmouth, eastern Middlesex, and northern Ocean Counties). Water levels in these wells continued to rise during the 1992 to 1994 water years. This trend resulted, in part, from the substitution of surface water for the ground water previously used for public supply in parts of Middlesex and Monmouth Counties. In addition, some public water-supply systems shifted their withdrawals from the deep confined aquifers to the shallower confined aquifers and the unconfined aquifer. Since October 1990, the water level in the Marlboro 1 (NJ-WRD well number 25-0272) observation well screened in the Potomac-Raritan-Magothy aquifer system has risen more than 60 feet; the water level in the Allaire State Park C observation well (NJ-WRD well number 25-0429) screened in the Englishtown aquifer system has risen more than 80 feet; and the water level in the DOE-Sea Girt observation well (NJ-WRD well number 25-0486) screened in the Wenonah-Mount Laurel aquifer has risen more than 95 feet.

Water-level hydrographs included in this report illustrate the data presented in the tables. Daily mean water levels in two water-table observation wells in 1994 are compared with monthly extremes and long-term averages in figure 1. These two wells are the Lebanon State Forest 23-D well (NJ-WRD well number 05-0689) in Burlington County and the Taylor well (NJ-WRD well number 37-0202) in Sussex County. For further comparison, 20-year water-level hydrographs of two wells in the Coastal Plain—one in an unconfined aquifer (NJ-WRD well number 05-0689) and one in a confined aquifer (NJ-WRD well number 07-0413)—are presented in figure 2. In addition, multiyear hydrographs that include the water-level data for the 1994 water year are provided with the tabular data for the wells presented in this report.

SALTWATER-MONITORING NETWORK

The usability of the ground water from the Coastal Plain of New Jersey depends primarily on its chemical quality. In nearshore areas, actual or potential saltwater contamination of ground water is of paramount importance, and chloride concentration is an accurate index of the extent and degree of saltwater contamination. The presence of high concentrations of chloride alone is not definitive proof of active saltwater encroachment, however. It may represent a natural static condition common in shallow deposits bordering saline creeks, bays, and marshes. In the deep formations, saline ground water may be residual water trapped in the sediments. Saltwater encroachment in these areas can be proven by analysis of periodically collected samples that indicates an increase in chloride concentration with time. Because saltwater encroachment is indicated by changes in chloride concentration rather than by actual concentration, the establishment of a chloride-concentration value as a limit that can be used to indicate encroachment is difficult; however, concentrations of chloride less than 10 ppm (parts per million) generally do not indicate encroachment (Seaber, 1963, p. 5).

The U.S. Geological Survey established a saltwater-monitoring network in the Coastal Plain of New Jersey in the 1940's to document and evaluate the movement of saline water into freshwater aquifers that serve as sources of water supply. Water samples are collected from public supply, industrial, domestic, and U.S. Geological Survey observation wells. Sampling is concentrated along the coast from Raritan Bay to Cape May and along the Delaware River from Cape May County to Gloucester County. In the 1994 water year, water samples were collected from 28 wells in 7 counties. The results of analysis of these samples collected from the Saltwater-Monitoring-Network wells are presented in tables in the section of this report entitled "Quality of Ground Water."



Unshaded area--Indicates range between highest and lowest recorded monthly water level, prior to the current year.

Dashed line--Indicates mean of monthly mean water levels, prior to the current year.

Solid line--Indicates daily mean water level for the current year. Breaks in line indicate missing data.

Figure 1. Ground-water levels at key observation wells in New Jersey

WATER RESOURCES DATA - NEW JERSEY, 1994

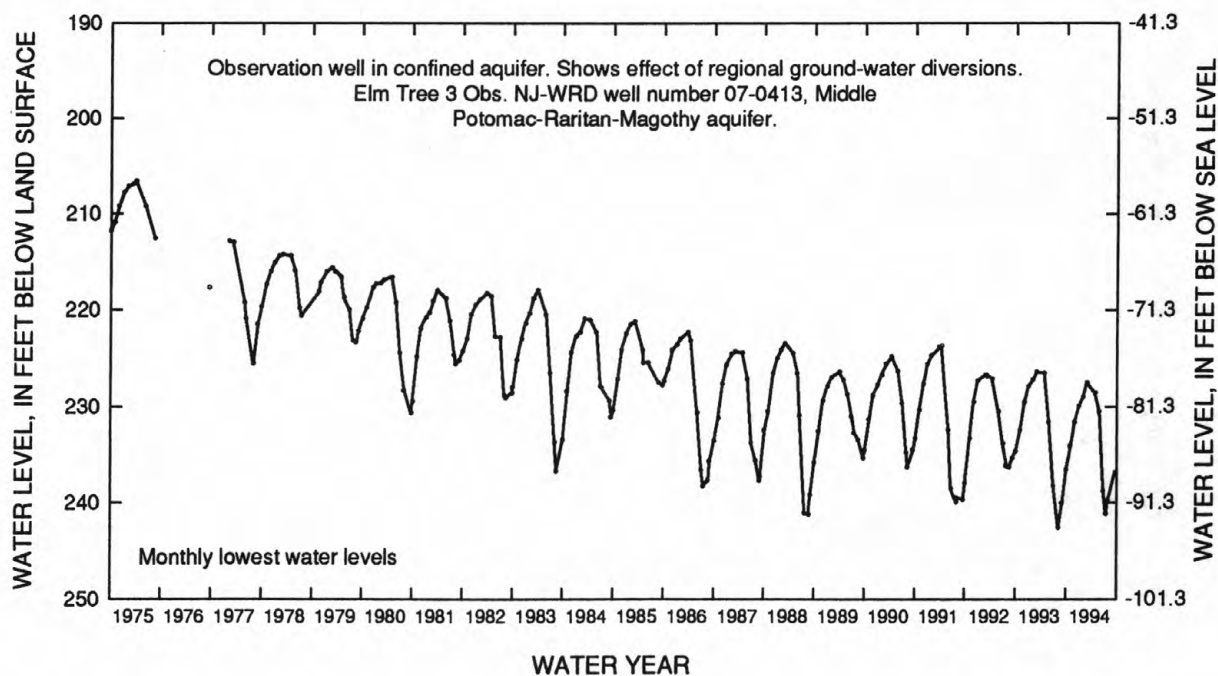
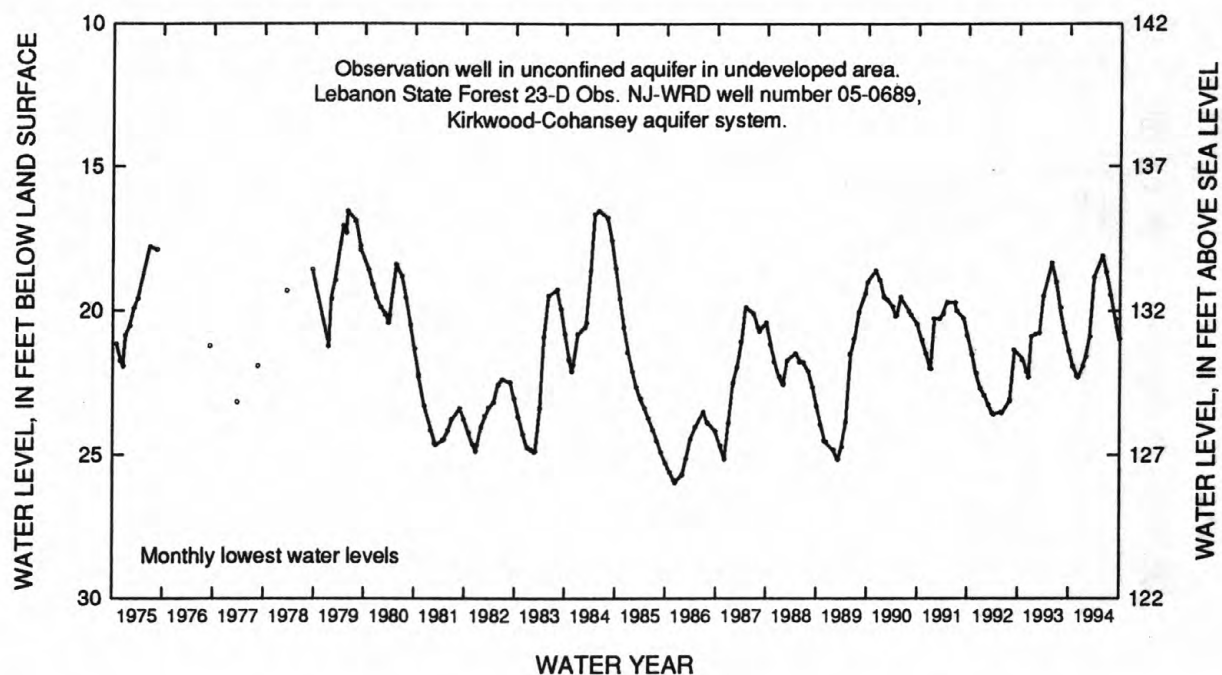


Figure 2. Twenty-year water-level hydrographs of an observation well in an unconfined aquifer and an observation well in a confined aquifer in New Jersey.

EXPLANATION OF THE RECORDS

The ground-water level and ground-water quality data published in this report are for the 1994 water year that began October 1, 1993, and ended September 30, 1994. A calendar of the water year is provided on the inside of the front cover. The locations of the wells where data were collected are shown in figures 4 and 5. 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.

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 is assigned when a well is first established and is retained for that well indefinitely. The latitude-longitude system used by the U.S. Geological Survey to assign identification numbers to ground-water well sites is based on geographic location.

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 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 well will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 3 below.)

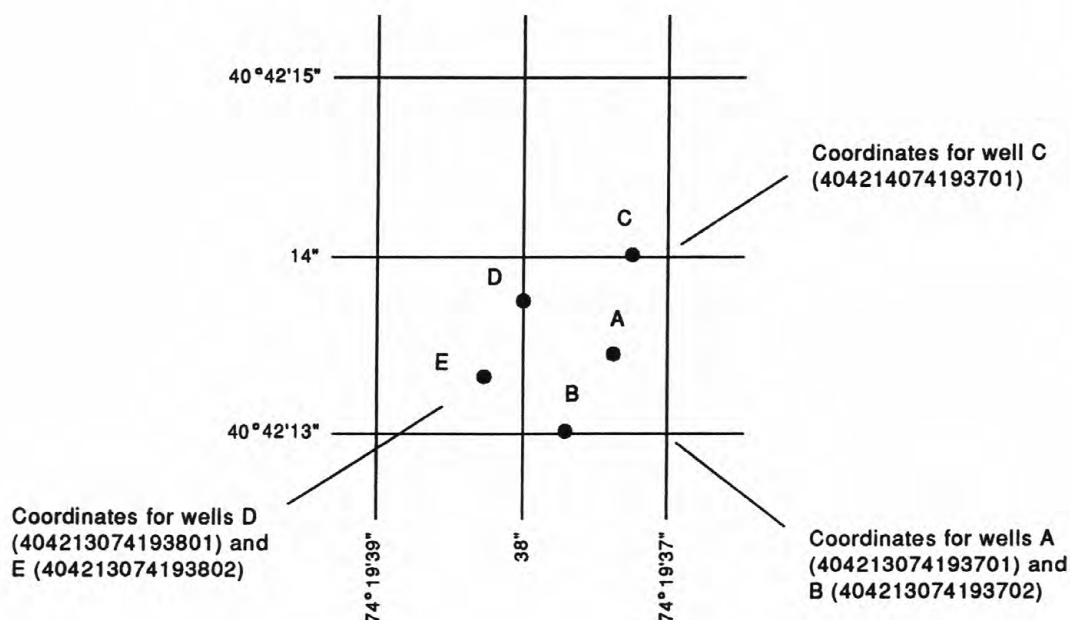


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

Records of Ground-Water Levels

Water-level data from the New Jersey Observation-Well Network and other current ground water projects are given in this report. These data are intended to provide a historical record of water-level changes in the State's most important aquifers. The locations of these wells are shown in figure 4.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions. The methods of measurement are standardized to incorporate continuous precision. The equipment and measuring techniques used at each well ensure that measurements are of consistent accuracy and reliability.

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 NJ-WRD well number, a hyphenated 6 digit identification number assigned to all New Jersey wells in the Ground Water Site Inventory (GWSI) data base. The first two digits are a code for the county in which the well is located and the last four digits are a sequence number. These NJ-WRD well numbers are being used now in the ground-water level descriptions, to identify ground-water quality sites, and on the corresponding location maps in this report.

Water levels are measured manually using steel tape or electric sensing device at regular time intervals. Some wells are equipped with digital water-level recorders or various pressure transducer-data logger combinations to observe daily fluctuations in water level. Beginning in the 1977 water year, water-level recorders were removed from some wells and replaced by water-level extremes recorders. The extremes are read from these recorders at about three month intervals, but the actual dates of occurrence of these extremes (highest and lowest water levels) are unknown. In this report, the water-level extremes are given together with the manually measured water levels.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd) or sea level datum. Land-surface datum is a datum plane that is approximately at land surface at each well. The altitude of the land-surface datum and the height of the measuring point (MP) above or below land-surface datum are given in each well description.

Data Presentation

Each well record consists of three parts: the well description, the data table of water levels observed during the current water year, and a hydrograph of the water levels for a selected time period including the current water year. The comments to follow clarify information presented under the various headings of the well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the hydrologic-unit number; a description of the location; and the owner's name. The hydrologic unit number is a code for the river basin where the well is located (U.S. Geological Survey, 1974: Hydrologic Unit Map).

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

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter of screened interval or open hole segment, method of construction, use, and additional information known about the physical characteristics of the well.

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 altitude at the well. The measuring point is described physically (such as top of coupling, top of recorder shelf, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface). The altitude of the land-surface datum is described in feet above 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 may give other important data relevant to the well site.

PERIOD OF RECORD.--This entry indicates the period for which there are records for the well. It reports the month and year of the start of collection 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, are noted.

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

A table of water levels follows the station description for each well. Water levels are reported in reference to either land surface or sea level datum. For wells not equipped with continuous recorders, the table lists the water levels and measurement dates. For wells equipped with continuous recorders, only abbreviated tables are published. Daily mean water-levels 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. For wells equipped with water-level extremes recorders, the extremes (highest and lowest water levels) for each time period are given together with the manually measured water levels.

A hydrograph for a selected period of record follows each water-level table. One of three types of hydrographs is shown depending on the method of data collection. For wells equipped with continuous recorders, daily mean water levels are plotted as continuous line graphs. For wells equipped with maximum-minimum recorders, the graphs have horizontal lines representing the extremes (highest and lowest water level for each time period) and dashed vertical lines delineating each time period. The measured water levels are plotted as small circles at the date of each servicing interval. For wells without recorders, a scatter plot shows each individual water level measurement with no trend line connecting the measurements.

Records of Ground-Water Quality

Records of ground-water quality in this report usually consist of only one set of measurements for the water year. Because ground-water movement is normally slow compared to surface water, frequent measurements are not necessary for monitoring purposes. More frequent measurements may be necessary for studying ground-water problems, trends, or processes. Locations of wells for which water-quality data are published are shown in figure 5.

Data Collection and Computation

The records of ground-water quality in this report were obtained from water-quality monitoring studies in specific areas. Consequently, chemical analyses are presented for some counties but not 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 TWRI publications listed at the end of the introductory text. The values reported in the 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 NJ-WRD well number. 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 water-quality data in this report:

PRINTED OUTPUT**REMARK**

E

Estimated.

>

Actual value is known to be greater than the value shown.

<

Actual value is known to be less than the value shown.

*

Laboratory determination (used when field determination is otherwise expected or indicated in column heading).

CURRENT WATER RESOURCES PROJECTS IN NEW JERSEY

The Geological Survey is currently involved in a number of hydrologic investigations in the State of New Jersey. The following is a list of these investigations. Results are published at the conclusion of short-term projects or periodically in the case of long-term projects. Hydrologic data from these projects are entered into the WATSTORE data base. Subsequent sections contain information on recent publications and on WATSTORE.

A Monthly Model of the Raritan River Basin Reservoir System

A Watershed-Based Method for Relating Water Quality to Flow Characteristics

Compositional Modeling of Organic Transport and Biodegradation of Organic Compounds in the Unsaturated Zone and Ground Water Confining Unit Chemistry

Data Base Development and Determination of Confinement for Public Supply Wells in New Jersey

Efficiency of Composted Biosolids Application in the New Jersey Pinelands for Disturbed Site Recovery

Estimation of Aquifer Dispersivity, Transport Properties, and Spatial Variation in Fractured Rock

Estimation of Non-Permitted Constituent Loads in the Musconetcong, Rockaway, and Whippany River Basins

Flood Characteristics of New Jersey Streams

Geohydrology and Ground Water Flow Passaic River Flood Tunnel

Geohydrology at Picatinny Arsenal in Morris County, New Jersey

Ground-Water Contamination with Chlorinated Volatile Organic Compounds at Picatinny Arsenal, Morris County, New Jersey

Ground-Water Data Collection Network

Ground-Water Flow in the Surficial Aquifers of Toms River and Metedeconk River Basins, New Jersey

Ground-Water Flow Modeling in the Passaic River Flood Tunnel

Ground-Water Levels in Major Aquifers of the Coastal Plain, 1993

Ground-Water Resources and Saltwater Intrusion of Cape May County

Hydrologic Controls on Well-Contributing Areas in New Jersey

Hydrology of Surficial Aquifer Systems

Hydrology of Wetlands

Investigation of Contaminant Transport in a Fractured Rock Aquifer, Rutgers University, Busch Campus

Investigation of Optimal Recharge to Augment Ground-Water Supply in Peninsular Cape May County, New Jersey

Investigation of Water Quality in the Wanaque South Diversion Area, Morris and Passaic Counties, New Jersey

Magnitude and Frequency of Floods at Roadway Sites in New Jersey

Mercury Distribution, Sources and Mobility in the Kirkwood-Cohansey Aquifer System, New Jersey Coastal Plain

Modeling and Experimental Investigation of Hydrocarbon Transport and Biodegradation in the Unsaturated Zone

Multispecies Transport in Ground Water

New Jersey-Long Island National Water Quality Assessment

New Jersey Tidal Telemetry Network

New Jersey Water Use Program

Optimization of Ground-Water-Withdrawal Strategies for the Coastal Plain Aquifer System of New Jersey

Pesticide Vulnerability of Public Ground-Water Supplies

Radium and Trace Metal Leaching in the Kirkwood-Cohansey Aquifer System

Small Watershed Flood Data Collection

Quality of Water Data Collection Network

Regionalization of Low Flows for New Jersey Streams

Relations Between Streamflow, Salinity, and Water Quality in Estuaries of the Toms and Metedeconk Rivers, New Jersey

Removal of Volatile Ground-Water Contaminants by Inducing Air-Phase Transport

Review of Remedial Investigation for the Vineland Chemical Superfund Site

Small-Scale Watershed Delineation for GIS (14-Digit Hydrologic Unit Codes)

Somerset County Flood-Monitoring Network

Spatial Analysis of Statewide Water-Quality Data

Strategic Environmental Research Development Program, Biodegradation Picatinny Arsenal

Surface Water Data Collection Network

Surface-Water-Temperature Statistics for New Jersey Streams

Surfactant Sorption to Soil and its Effect on the Distribution of Anthropogenic Organic Compounds

Water-Supply Availability in Salem and Gloucester Counties, New Jersey

WATER-RELATED REPORTS FOR NEW JERSEY COMPLETED BY THE GEOLOGICAL SURVEY IN RECENT YEARS

Ayers, M.A., Wolock, D.M., McCabe, G.J., Hay, L.E., and Tasker, G.D., 1993, Sensitivity of water resources in the Delaware River Basin to climate variability and change: U.S. Geological Survey Open-File Report 92-52, 68 p.

Barringer, J.L., 1994, Interactions of metallic substances and acidic ground water in the New Jersey Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 90-4095, 68 p.

Barringer, J.L., Kish, G.R., and Velnich, A.J., 1993 Corrosiveness of ground water in the Kirkwood-Cohansey aquifer system of the New Jersey Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 90-4180, 79 p., 1 pl.

- Barringer, T.H., Dunn, Dennis, Battaglin, W.A., and Vowinkel, E.F., 1990, Problems and methods involved in relating land use to ground-water quality: *Water Resources Bulletin*, v. 26, no. 1, February 1990, p. 1-9.
- Barringer, T.H., and Smith, T.E., 1992, Experiments with central-limit properties of spatial samples from locally covariant random fields: *Regional Science and Urban Economics*, v. 22, no. 3, p. 387-404.
- Barton, G.J., Storck, D.A., and Paulachok, G.N., 1993, Records of wells, exploratory boreholes, and ground-water quality, Atlantic County and vicinity, New Jersey: U.S. Geological Survey Open-File Report 92-631, 95 p., 1 pl.
- Bauersfeld, W.R., Moshinsky, E.W., and Gurney, C.E., 1994, Water resources data for New Jersey, 1993--Volume 1 - Surface-Water Data: U.S. Geological Survey Water-Data Report NJ-93-1.
- Bauersfeld, W.R., Jones, W.D., and Gurney, C.E., 1994, Water resources data, New Jersey, 1993--Volume 2 - Ground-Water Data: U.S. Geological Survey Water-Data Report NJ-93-2.
- Buxton, D.E., and Dunne, Paul, 1993, Water-quality data for the Millstone River at Weston, New Jersey, and the Shark River at Remsen Mill, New Jersey, March-September 1992: U.S. Geological Survey Open-File Report 93-444, 16 p.
- Clawges, R.M., and Titus, E.O., 1993, Method for predicting water demand for crop uses in New Jersey in 1990, 2000, 2010, and 2020, and for estimating water use for livestock and selected sectors of the food-processing industry in New Jersey in 1987: U.S. Geological Survey Water-Resources Investigations Report 92-4145, 211 p., 1 pl.
- Czarnik, T.S., and Kozinski, Jane, 1994, Ground-water quality in the central part of the Passaic River Basin, northeastern New Jersey, 1959-88: U.S. Geological Survey Water-Resources Investigations Report 92-4083, 66 p.
- Dunne, Paul, and Schopp, R.D., 1994, Flood magnitude and frequency of Delaware River tributary at the culvert on New Jersey Route 29, at Lambertville, New Jersey: U.S. Geological Survey Open-File Report 93-662, 8 p.
- Dunne, Paul, and Velnich, A.J., 1994, Development, installation, and operation of a flood-monitoring system in Somerset County, New Jersey: U.S. Geological Survey Open-File Report 94-65, 23 p.
- Ervin, E.M., Voronin, L.M., and Fusillo, T.V., 1994, Water quality of the Potomac-Raritan-Magothy aquifer system in the Coastal Plain, west-central New Jersey: U.S. Geological Survey Water-Resources Investigations Report 94-4113, 114 p.
- Gibs, Jacob, Imbrigiotta, T.E., and Turner, Kenneth, 1990, Bibliography on sampling ground water for organic compounds: U.S. Geological Survey Open-File Report 90-564, 22 p.
- Hickman, R.E., 1992, Water-quality data from reconnaissance surveys of selected estuaries in southern New Jersey, July-October 1989: U.S. Geological Survey Open-File Report 91-491, 61 p.
- Hill, M.C., Lennon, G.P., Brown, G.A., Hebson, C.S., and Rheame, S.J., 1992, Geohydrology of, and simulation of ground-water flow in, the valley-fill deposits in the Ramapo River Valley, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 90-4151, 92 p.
- Ivahnenco, Tamara, and Buxton, D.E., 1994, Agricultural pesticides in six drainage basins used for public water supply in New Jersey, 1990: U.S. Geological Survey Water-Resources Investigations Report 93-4101, 56 p.
- Jacobsen, Eric, Hardy, M.A., and Kurtz, B.A., 1993, Hydrologic conditions in the Jacobs Creek, Stony Brook, and Beden Brook drainage basins, west-central New Jersey, 1986-88: U.S. Geological Survey Water-Resources Investigations Report 91-4164, 104 p., 1 pl.
- Johnsson, P.A., and Barringer, J.L., 1993, Water quality and hydrogeochemical processes in McDonalds Branch Basin, New Jersey Pinelands, 1984-88: U.S. Geological Survey Water-Resources Investigations Report 91-4081, 111 p.
- Navoy, A.S., 1994, Simulated effects of projected withdrawals from the Wenonah-Mount Laurel aquifer on ground-water levels in the Camden, New Jersey, area and vicinity: U.S. Geological Survey Water-Resources Investigations Report 92-4152, 22 p.
- Robinson, K.W., and Pak, Connie, 1993, New Jersey stream water quality: U.S. Geological Survey Water-Supply Paper 2400, p. 395-402.

- Schaefer, F.L., Harte, P.T., Smith, J.A., and Kurtz, B.A., 1993, Hydrologic conditions in the upper Rockaway River Basin, New Jersey, 1984-86: U.S. Geological Survey Water-Resources Investigations Report 91-4169, 103 p., 2 pls.
- Schaefer, F.L., and Larkins, R.H., eds., 1993, Water-resources activities of the U.S. Geological Survey in New Jersey, 1990-91: U.S. Geological Survey Open-File Report 93-632, 88 p.
- Sargent, Pierre, and Storck, D.A., 1994, Contamination of shallow ground water in the area of building 95, Picatinny Arsenal, New Jersey, 1985-90: U.S. Geological Survey, Water-Resources Investigations Report 92-4122, 72 p.
- Spitz, F.J., and Barringer, T.H., 1992, Ground-water hydrology and simulation of saltwater encroachment, shallow aquifer system of southern Cape May County, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 91-4191, 87 p.
- Storck, D.A., 1994, Hydrology of, and water quality in, the open burning area and vicinity, Picatinny Arsenal, New Jersey, 1989-90: U.S. Geological Survey Water-Resources Investigations Report 92-4134, 69 p.
- Szabo, Zoltan, and Zapecza, O.S., 1991, Geologic and geochemical factors controlling uranium, radium-226, and radon-222 in ground water, Newark Basin, New Jersey, in Gunderson, L.C.S., and Wanty, R.B., eds., Field studies of radon rocks, soils, and water: U.S. Geological Survey Bulletin 1971, p. 243-265.
- Turner, K.S., Hardy, M.A., and Tapper, R.J., 1993, Water-quality reconnaissance of the perimeter of the Rolling Knoll landfill near Green Village, New Jersey, and electromagnetic survey of the parts of the landfill within the Great Swamp National Wildlife Refuge, 1989: U.S. Geological Survey Open-File Report 92-153, 38 p.
- Watt, M.K., and Johnson, M.L., 1992, Water-resources of the unconfined aquifer system of the Great Egg Harbor River Basin, New Jersey, 1989-90: U.S. Geological Survey Water-Resources Investigations Report 91-4126, 5 pls.
- Zapecza, O.S., Brickey, D.W., and Ulery, R.L., in press, Delineation of lineaments by radar and photographic imagery in the northern Coastal Plain of New Jersey: U.S. Geological Survey Water-Resources Investigations Report 88-4121.

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.
- Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- 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 over 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 and 3-1/2 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. 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.) A limited number of CD-ROM discs will be available for sale by Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

Terms related to ground-water levels, ground-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.

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.

Continuing-record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken one or more times daily.

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 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.

Micrograms per liter ($\mu\text{G/L}$, $\mu\text{g/L}$) 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.

NJ-WRD well number is a hyphenated, 6-digit identification number which the U.S. Geological Survey assigned to all New Jersey wells in the Ground Water Site Inventory (GWSI) data base. This numbering system was developed in 1978 to simplify identification of wells. The first two digits are a code for the county in which the well is located, and the last four digits are a sequence number. Each well added to GWSI is assigned the next higher sequence number for the county in which the well is located. These NJ-WRD well numbers are being used now in the ground-water level descriptions, to identify ground-water quality sites, and on the corresponding location maps in this report.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

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.

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).

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

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.

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 from 55 to 75 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.

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 table is that surface in an unconfined ground-water body at which the pressure is atmospheric.

Water year in Geological Survey reports dealing with water supply 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, 1985, is called the "1985 water year."

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

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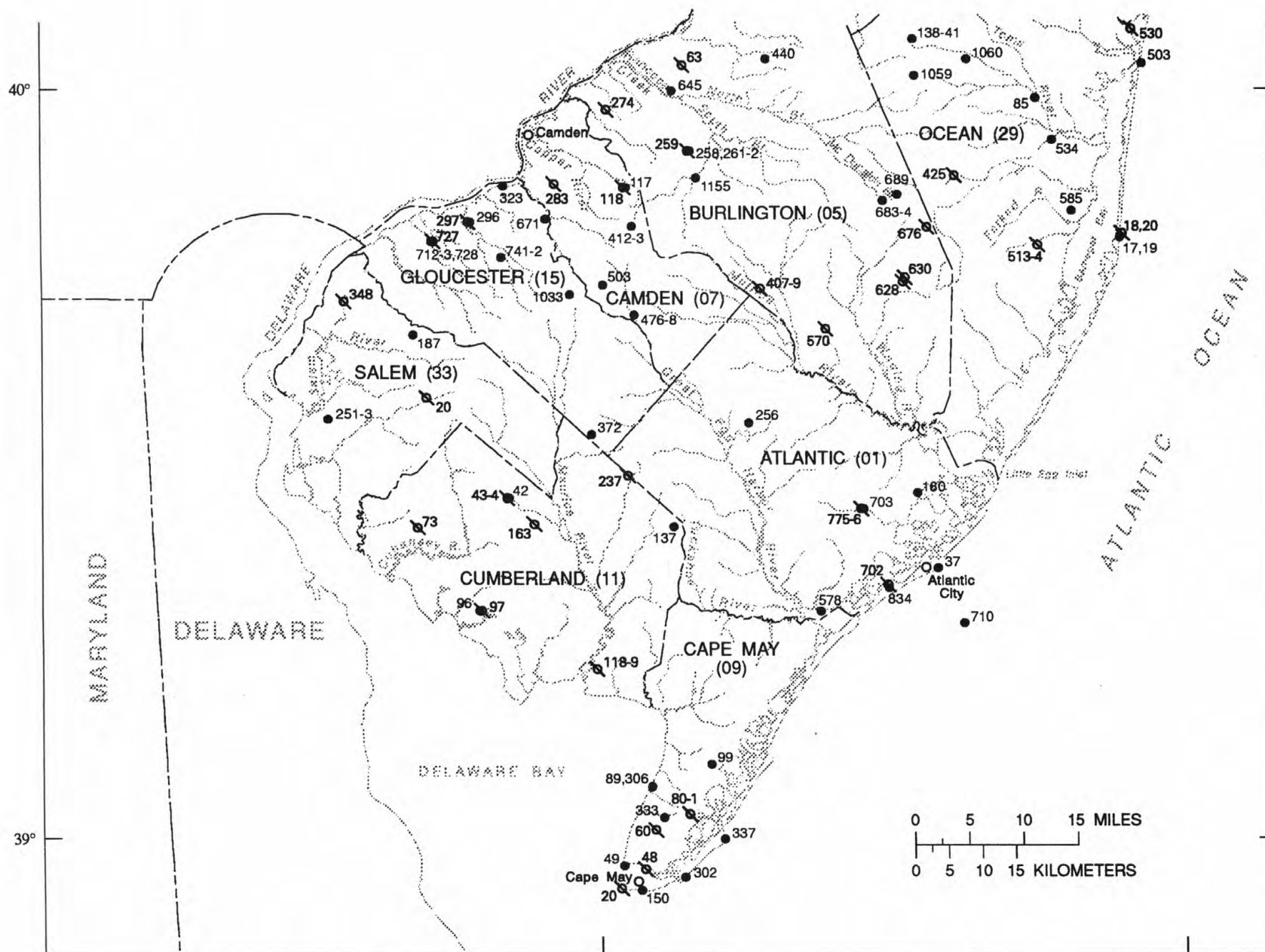


Figure 4. Locations of ground-water-level observation wells in New Jersey

WATER RESOURCES DATA-NEW JERSEY, 1994

75°

74°

20

EXPLANATION

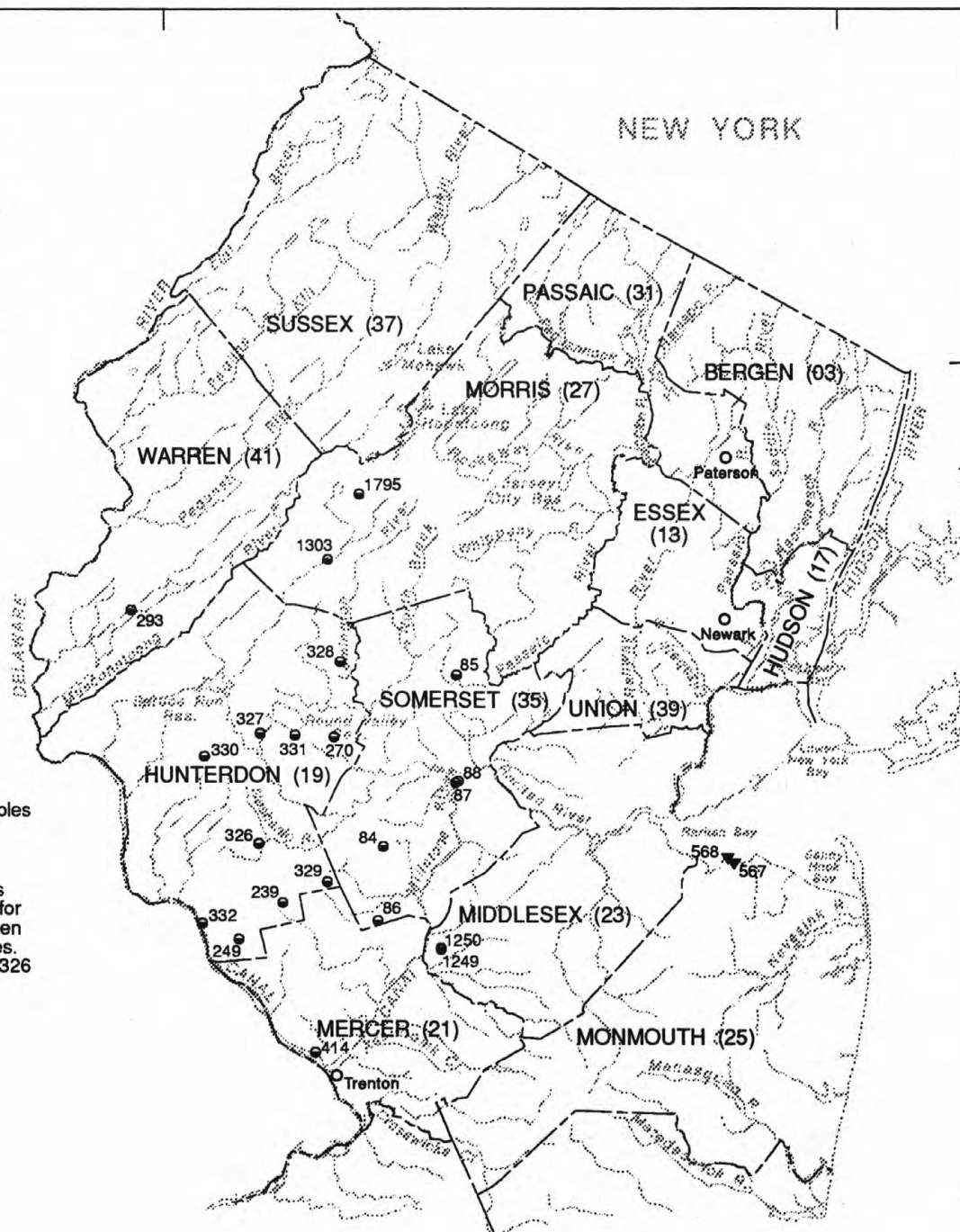
- ▼251 Location and number of well in saltwater-monitoring network sampled for water-quality analysis.
- 330 Location and number of well in ambient ground-water-quality network sampled for water-quality analysis.
- ◆454 Location and number of well in other ground-water-quality networks sampled for water quality analysis.

41°

PENNSYLVANIA

Note: Water-quality data can be found in tables in the back of the report under the respective county headings.

The well numbers with county prefixes constitute the NJ-WRD well number for each well. The county codes are given in parentheses with the county names. Example: NJ-WRD well number 19-0326 is shown as well 326 in county 19.



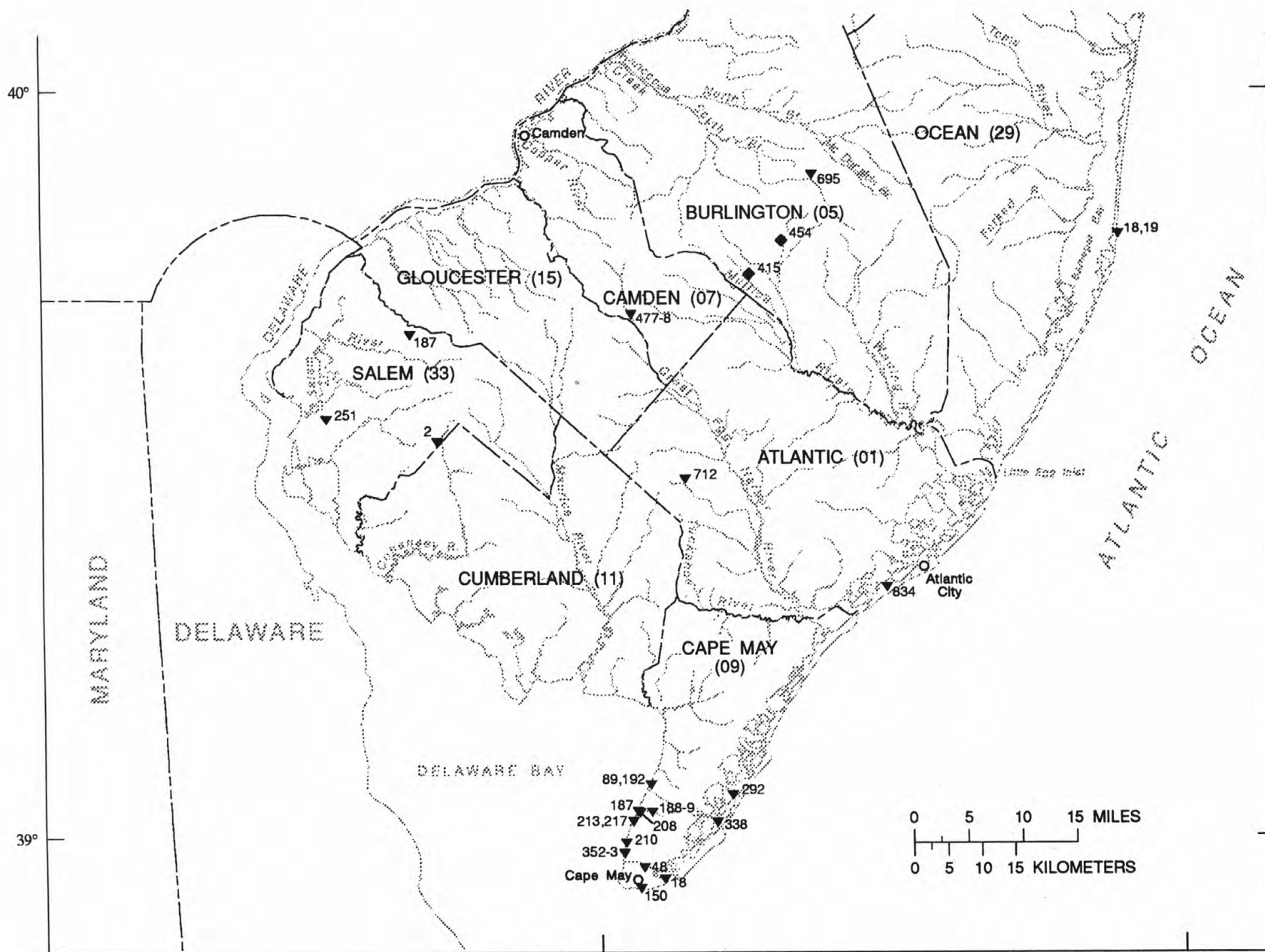


Figure 5. Locations of ground-water quality sampling sites in New Jersey

ATLANTIC COUNTY

391726074222101. Local I.D., ACOW 2 Obs. NJ-WRD Well Number 01-0710.

LOCATION.--Lat 39°17'26", long 74°22'21", in the Atlantic Ocean, 5.3 miles offshore of Atlantic City.

Owner: U.S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.-- Drilled artesian observation well, diameter 4 in., depth 1,019 ft, screened 973 to 1,003 ft.

INSTRUMENTATION.--Digital data logger with differential pressure transducers--60 minute recording interval.

Recorder is located on the sea floor, about 43 ft below sea level.

DATUM.-- 0.00 ft above sea level.

Measuring point: Deck of drilling platform at the time when the transducers were set at the bottom of the well.

REMARKS.--Water level affected by tidal fluctuation and regional pumping. Elevation of the differential pressure

transducers was determined by direct measurement from the deck of the drilling platform. Elevation of the deck

of the drilling platform was determined by survey by the U.S. Geological Survey, National Mapping Division.

PERIOD OF RECORD.--Feb. to June 1989 and June 1993 to current year. Records for 1989 and 1993 are unpublished

and are available in files of the New Jersey District Office.

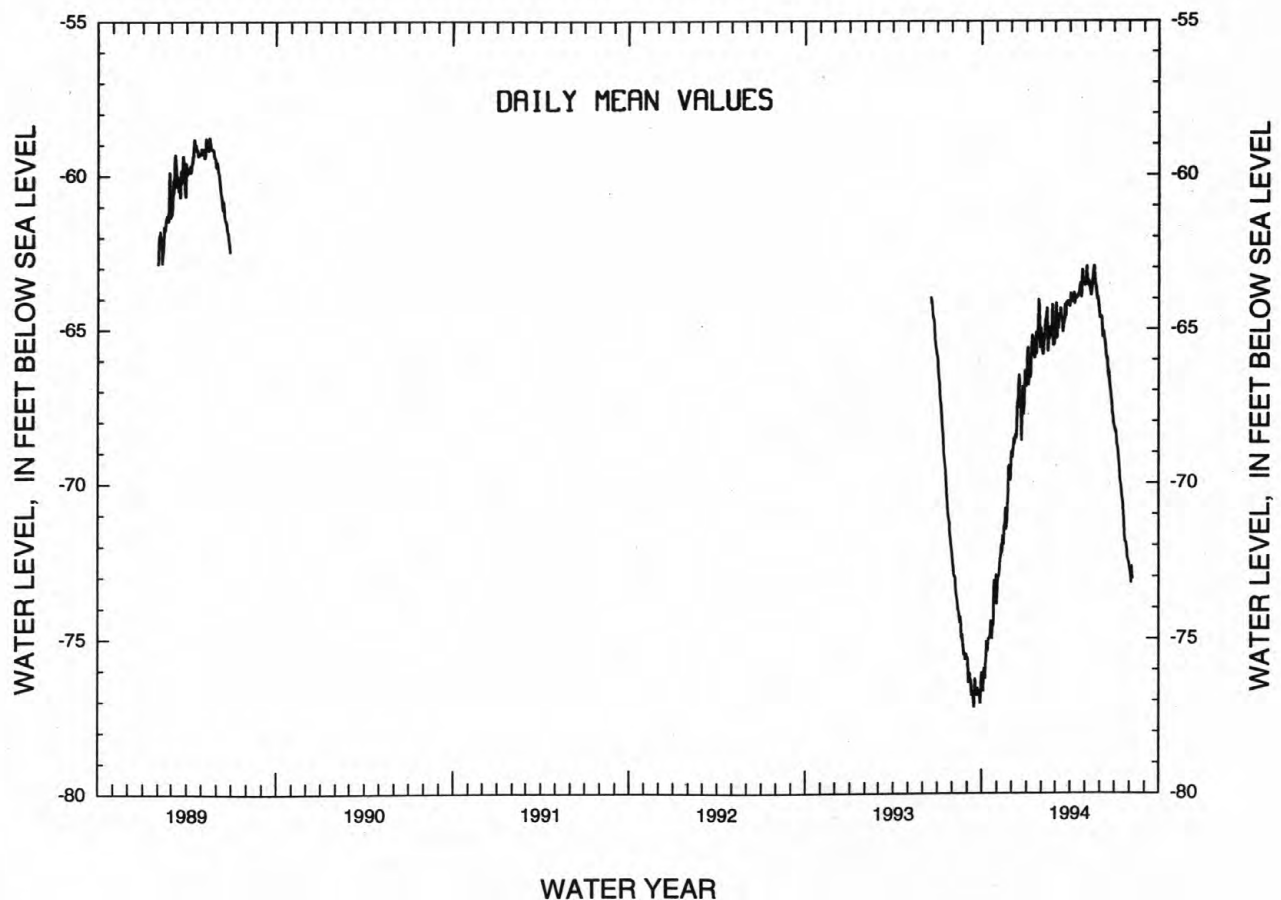
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 56.43 ft below sea level, May 6, 1989; lowest, 79.38 ft below sea level, Sept. 15-16, 1993.

WATER LEVEL, IN FEET BELOW SEA LEVEL, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-76.22	-72.98	-68.83	-66.80	-65.63	-65.28	-63.92	-62.96	-64.59	-68.41	-73.20	---
10	-75.59	-72.10	-68.41	-66.37	-64.75	-64.68	-64.16	-63.60	-65.27	-69.22	---	---
15	-75.00	-71.96	-67.31	-65.72	-65.42	-64.62	-63.91	-63.74	-65.95	-70.07	---	---
20	-74.41	-71.47	-67.39	-65.34	-65.21	-64.74	-63.71	-62.95	-66.35	-71.02	---	---
25	-74.56	-69.45	-66.99	-64.90	-65.54	-64.15	-63.39	-63.76	-67.23	-71.89	---	---
EOM	-72.94	-69.38	-66.86	-64.97	-65.28	-64.26	-63.48	-64.46	-68.10	-72.56	---	---
MEAN	-75.00	-71.52	-67.81	-65.60	-65.14	-64.54	-63.79	-63.59	-66.06	-70.35	-72.91	---

WTR YR 1994 MEAN -67.51 HIGH -60.58 APR 25 LOW -78.13 OCT 3-4

NJ-WRD WELL NO. 01-0710



ATLANTIC COUNTY

391827074371001. Local I.D., Jobs Point Obs. NJ-WRD Well Number, 01-0578.

LOCATION.--Lat 39°18'26", long 74°37'09", Hydrologic Unit 02040302, on the west side of the Garden State Parkway at interchange 29, Somers Point City.

Owner: U.S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 680 ft, screened 670 to 680 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 10.00 ft above sea level.

Measuring point: Top of recorder shelf, 9.34 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--Oct. 1959 to current year. Records for 1975 to 1980 are unpublished and are available in files of the New Jersey District Office.

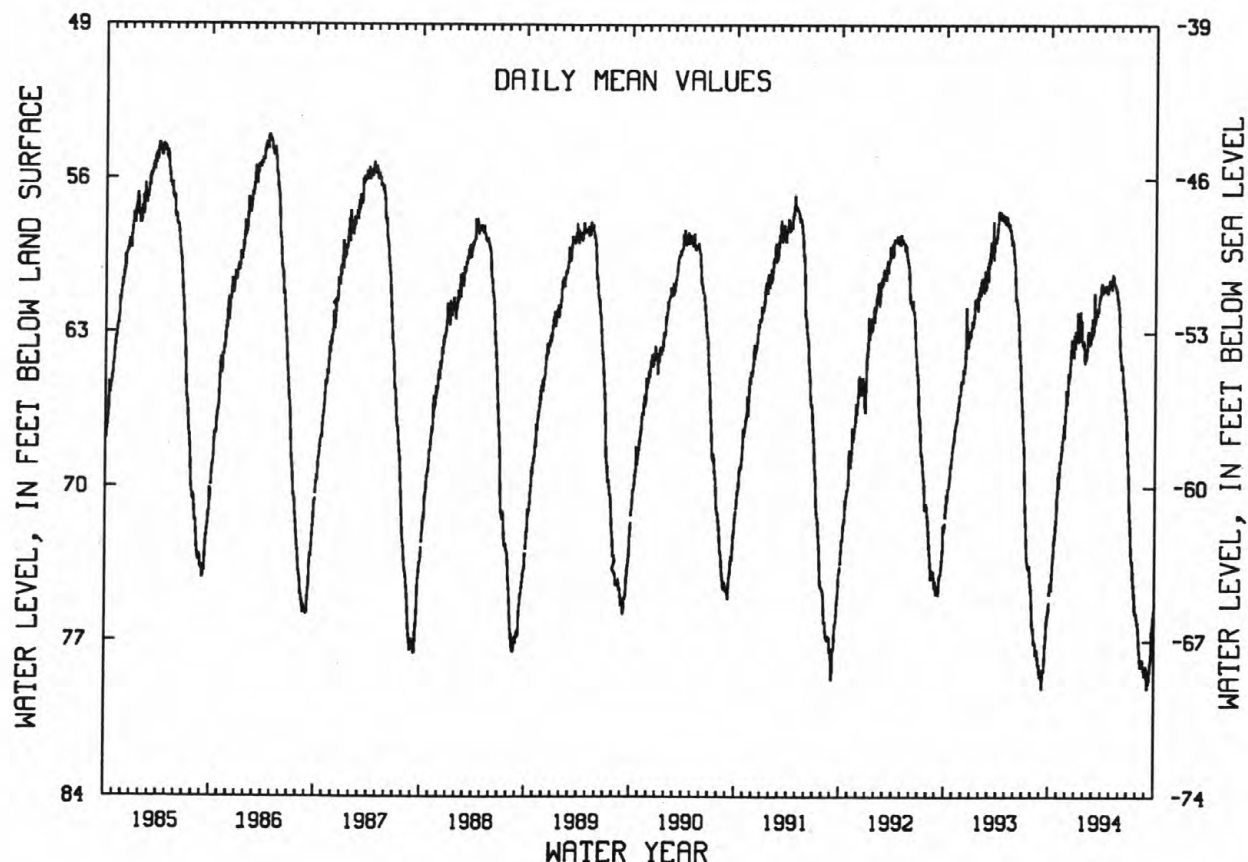
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.10 ft below land surface, Apr. 13, 1961; lowest, 80.04 ft below land surface, Sept. 7, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.32	68.97	64.81	63.41	63.84	62.57	60.97	60.32	64.32	70.85	76.28	78.44
10	74.15	68.52	64.58	63.37	63.48	61.94	60.94	60.80	64.49	72.18	77.27	78.60
15	73.04	67.85	63.54	62.56	63.34	61.83	61.06	60.91	65.47	73.29	78.07	78.46
20	72.03	67.50	63.77	63.41	63.23	61.60	61.09	61.03	66.11	74.39	77.82	77.87
25	71.31	66.35	63.08	63.62	63.07	60.90	60.60	61.72	67.00	75.48	78.18	76.31
EOM	69.28	66.22	63.32	64.19	62.99	61.21	60.73	63.61	68.81	75.85	78.34	75.59
MEAN	72.67	67.84	64.14	63.15	63.35	61.71	60.94	61.25	65.71	73.28	77.53	77.75

WTR YR 1994 MEAN 67.47 HIGH 59.33 APR 25 LOW 80.04 SEP 7

NJ-WRD WELL NO.01-0578



ATLANTIC COUNTY

392017074300201. Local I.D., Margate Firehouse 1 Obs. NJ-WRD Well Number, 01-0834.

LOCATION.--Lat 39°20'17", long 74°30'02", Hydrologic Unit 02040302, behind Margate Firehouse No. 2, Fremont Ave., Margate City.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 997 ft, screened 970 to 991 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 2.00 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation. Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--May 1988 to current year. Records for 1988 are unpublished and are available in files of the New Jersey District Office.

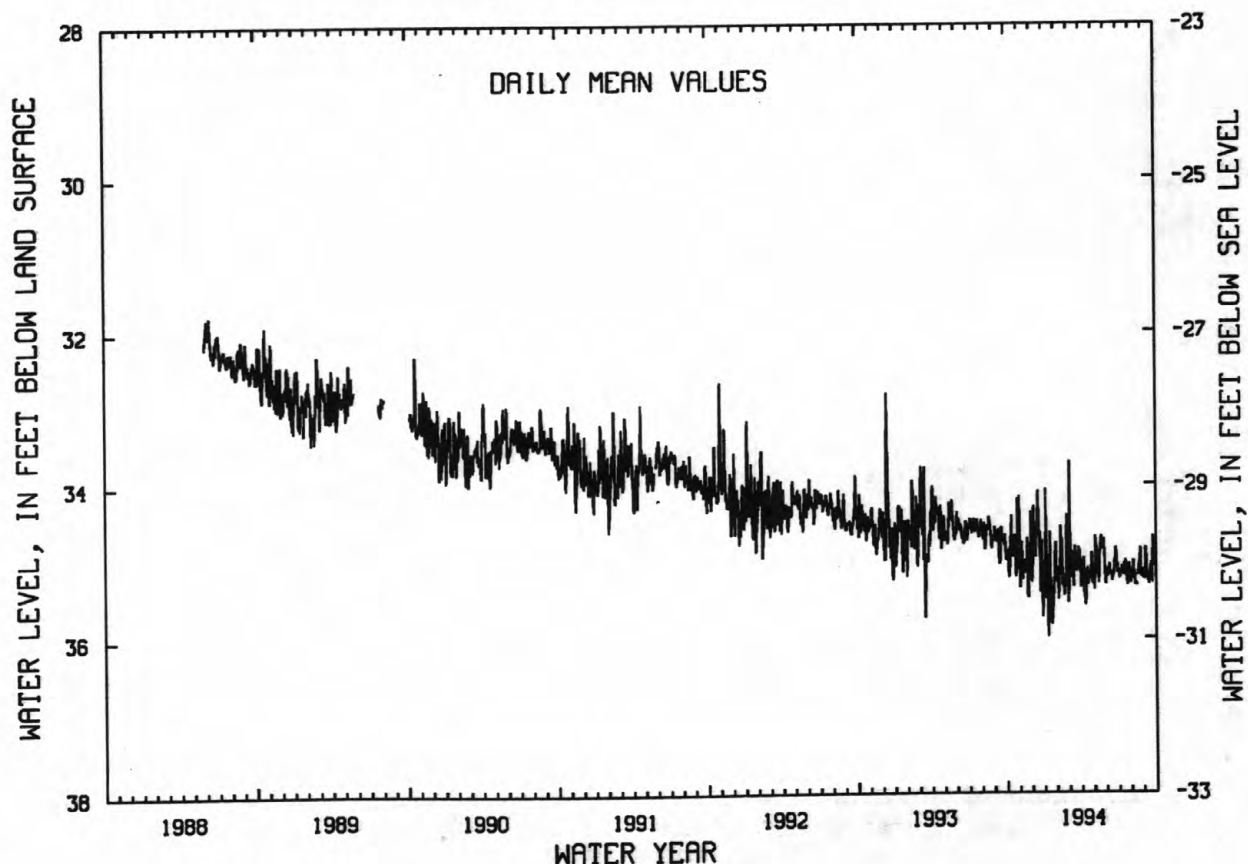
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.05 ft below land surface, June 2, 1988; lowest, 36.43 ft below land surface, Jan. 10, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.09	34.81	34.29	35.26	35.18	35.02	35.10	34.69	35.15	35.22	35.14	34.83
10	34.82	35.09	34.72	35.98	35.14	34.89	35.32	35.15	35.18	35.08	35.29	35.19
15	34.95	35.07	34.22	35.17	35.29	34.82	35.25	35.13	35.27	35.04	---	35.10
20	34.83	34.89	34.96	35.75	35.34	35.15	35.17	34.68	35.08	35.19	35.07	35.25
25	35.16	34.93	34.74	35.24	35.19	34.83	35.06	34.74	34.85	35.12	35.20	35.04
EOM	34.16	35.25	35.47	35.09	35.55	35.35	35.20	35.30	35.14	35.30	35.23	35.29
MEAN	34.84	35.05	34.88	35.25	35.14	35.00	35.20	34.99	35.12	35.16	35.16	35.09

WTR YR 1994 MEAN 35.07 HIGH 32.84 MAR 3 LOW 36.43 JAN 10

NJ-WRD WELL NO.01-0834



ATLANTIC COUNTY

392032074300801. Local I.D., Burk Ave TW Obs. NJ-WRD Well Number, 01-0702.

LOCATION.--Lat 39°20'32", long 74°30'08", Hydrologic Unit 02040302, on the west side of Burke Ave., about 20 ft south of the intersection of Burk Ave. and Fredericksburg Ave., Margate City.

Owner: U.S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 755 ft, screened 740 to 750 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 5 ft above sea level from topographic map.

Measuring point: Top of well shelter shelf, 2.30 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

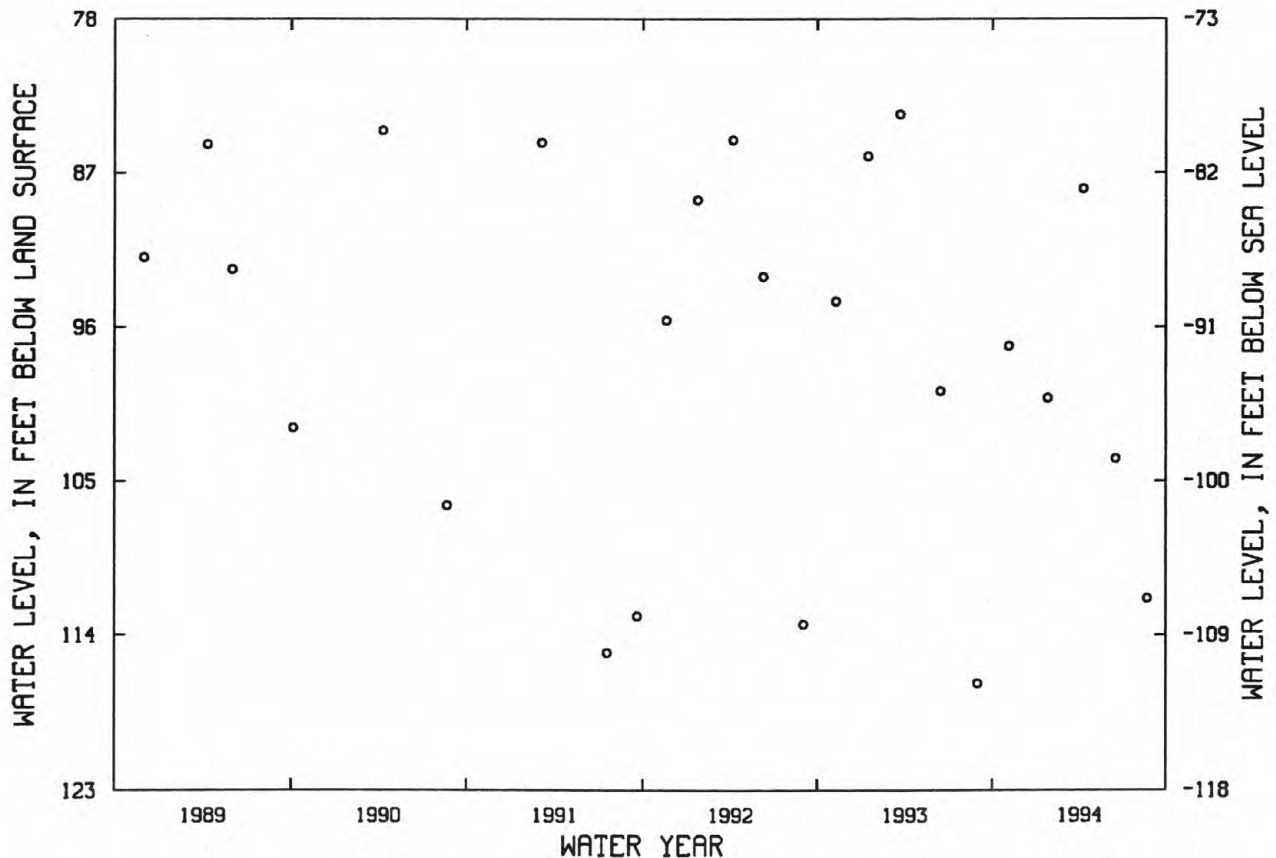
PERIOD OF RECORD.--October 1985 to current year. Records for 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.20 ft below land surface, May 17, 1986; lowest, 116.80 ft below land surface, Aug. 31, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	97.10	APR 8	87.93	AUG 23	111.86
JAN 24	100.14	JUN 16	103.68		

NJ-WRD WELL NO. 01-0702



ATLANTIC COUNTY

392153074250101. Local I.D., Galen Hall Obs. NJ-WRD Well Number, 01-0037.

LOCATION.--Lat 39°21'51", long 74°24'59", Hydrologic Unit 02040302, near the intersection of Pacific Ave. and Congress Ave., Atlantic City.

Owner: Atlantic City Municipal Utilities Authority.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 842 ft, screened 782 to 837 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 9.54 ft above sea level.

Measuring point: Top of recorder shelf, 2.75 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping. Water level is affected by USGS aquifer test, Aug. 16-23, 1985. Well damaged by construction equipment in Aug. 1987 and rehabilitated Nov. 1987.

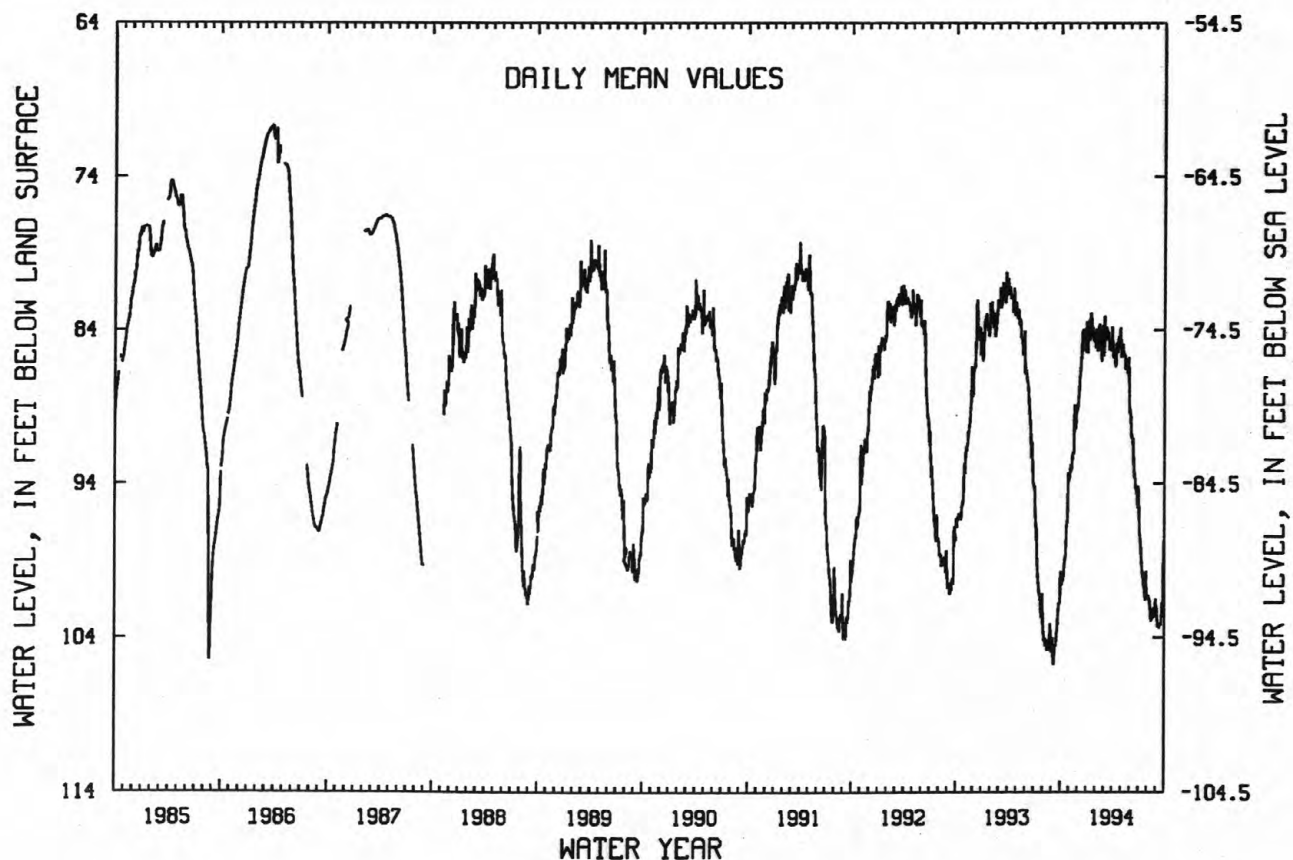
PERIOD OF RECORD.--Jan. 1949 to current year. Records for 1949 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 52.58 ft below land surface, Mar. 7, 1962; lowest, 105.81 ft below land surface, Sept. 6-7, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	100.48	92.79	87.66	83.70	84.93	83.83	85.63	84.92	90.39	97.37	101.36	102.90
10	100.05	92.41	86.20	84.65	84.13	83.96	86.09	85.58	90.99	98.60	101.78	103.20
15	98.85	92.02	84.60	83.07	84.79	84.19	84.83	86.45	93.36	99.81	102.95	103.16
20	97.45	89.30	84.70	83.85	85.78	85.30	84.86	85.89	94.29	100.60	102.45	102.66
25	96.21	89.09	83.92	84.66	84.36	84.61	85.20	86.87	94.65	101.48	102.11	101.98
EOM	93.54	88.94	84.26	84.94	85.72	84.49	85.00	89.39	94.18	101.30	101.87	97.75
MEAN	97.93	91.14	85.54	84.19	84.74	84.50	85.20	86.21	92.76	99.34	102.08	102.18
WTR YR 1994 MEAN 91.35 HIGH 82.69 JAN 14 LOW 103.56 SEP 11-12												

NJ-WRD WELL NO.01-0037



ATLANTIC COUNTY

392754074270101. Local I.D., Oceanville 1 Obs. NJ-WRD Well Number, 01-0180.

LOCATION.--Lat 39°27'54", long 74°27'01", Hydrologic Unit 02040302, at the Edwin B. Forsythe National Wildlife Refuge, Brigantine Division, Oceanville, Galloway Township.

Owner: U.S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 570 ft, screened 560 to 570 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 27 ft above sea level, from topographic map.

Measuring point: Top of bushing, 2.30 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

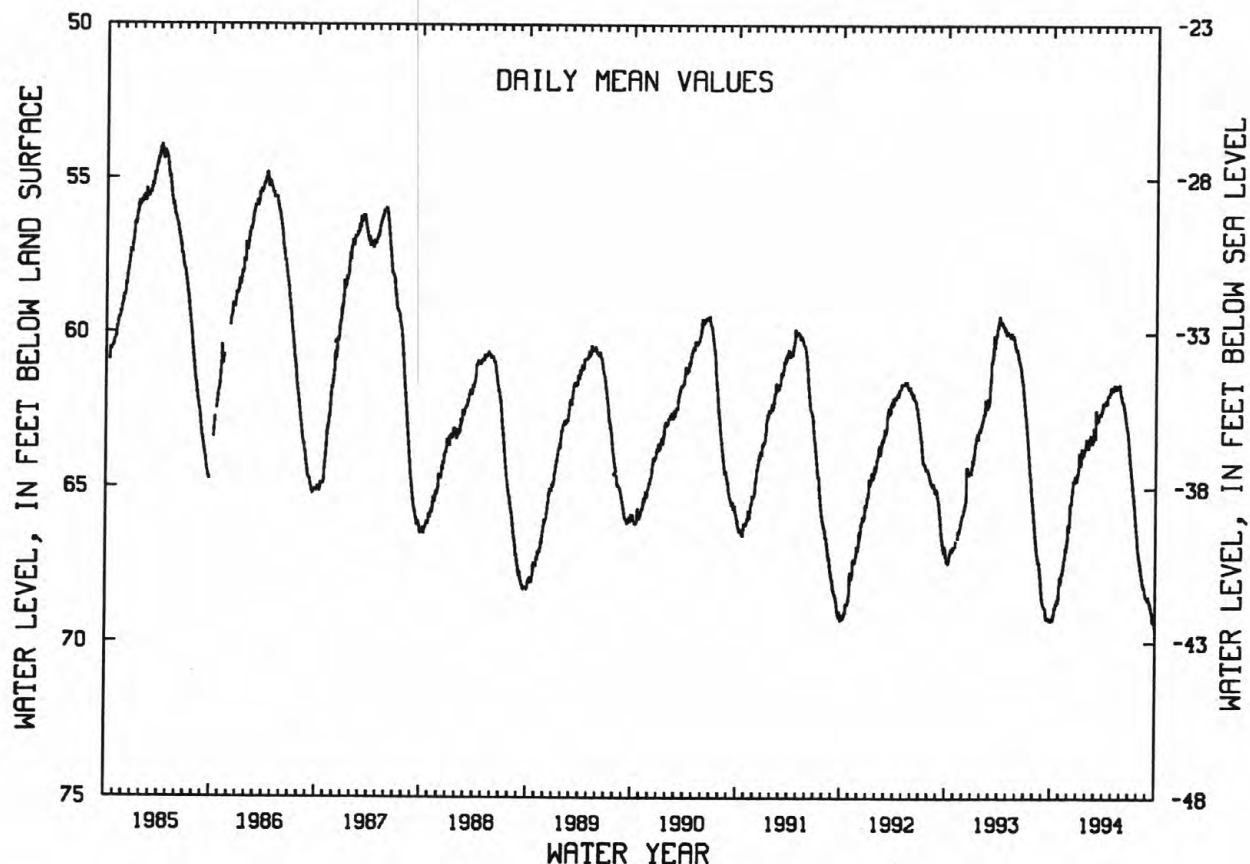
PERIOD OF RECORD.--Oct. 1959 to current year. Records for 1975 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 33.62 ft below land surface, Apr. 13, 1961; lowest, 69.60 ft below land surface, Sept. 30, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.24	67.80	65.52	64.09	63.64	62.74	62.21	61.66	62.19	64.32	67.31	68.51
10	69.07	67.64	65.32	64.25	63.55	62.65	62.19	61.73	62.34	64.76	67.66	68.68
15	68.88	67.28	64.83	63.79	63.44	62.57	62.03	61.78	62.67	65.23	67.97	68.91
20	68.70	66.89	64.81	63.90	63.52	62.62	61.94	61.65	62.99	65.81	68.22	69.24
25	68.62	66.72	64.58	63.70	63.20	62.40	61.78	61.63	63.22	66.35	68.41	69.34
EOM	67.83	66.36	64.54	63.55	63.39	62.32	61.76	61.98	63.76	67.00	68.53	69.54
MEAN	68.79	67.25	65.09	63.88	63.46	62.61	62.03	61.74	62.73	65.41	67.93	68.96
WTR YR 1994	MEAN 65.00 HIGH 61.40 MAY 26 LOW 69.60 SEP 30											

NJ-WRD WELL NO.01-0180



ATLANTIC COUNTY

393232074263901. Local I.D., FAA Pomona Obs. NJ-WRD Well Number, 01-0703.

LOCATION.--Lat 39°26'39", long 74°32'32", Hydrologic Unit 02040302, at the NAFEC Atlantic City Airport, Egg Harbor Township.

Owner: U.S. Geological Survey

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 575 ft, screened 560 to 570 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Land surface is 38 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 1.75 ft above land surface.

REMARKS.--Water level is affected by nearby pumping. Water level was affected by New Jersey-American Water Company aquifer test, Aug. 23-31, 1993.

PERIOD OF RECORD.--Oct. 1985 to current year. Records for 1985 to 1986 are unpublished and are available in files of the New Jersey District Office.

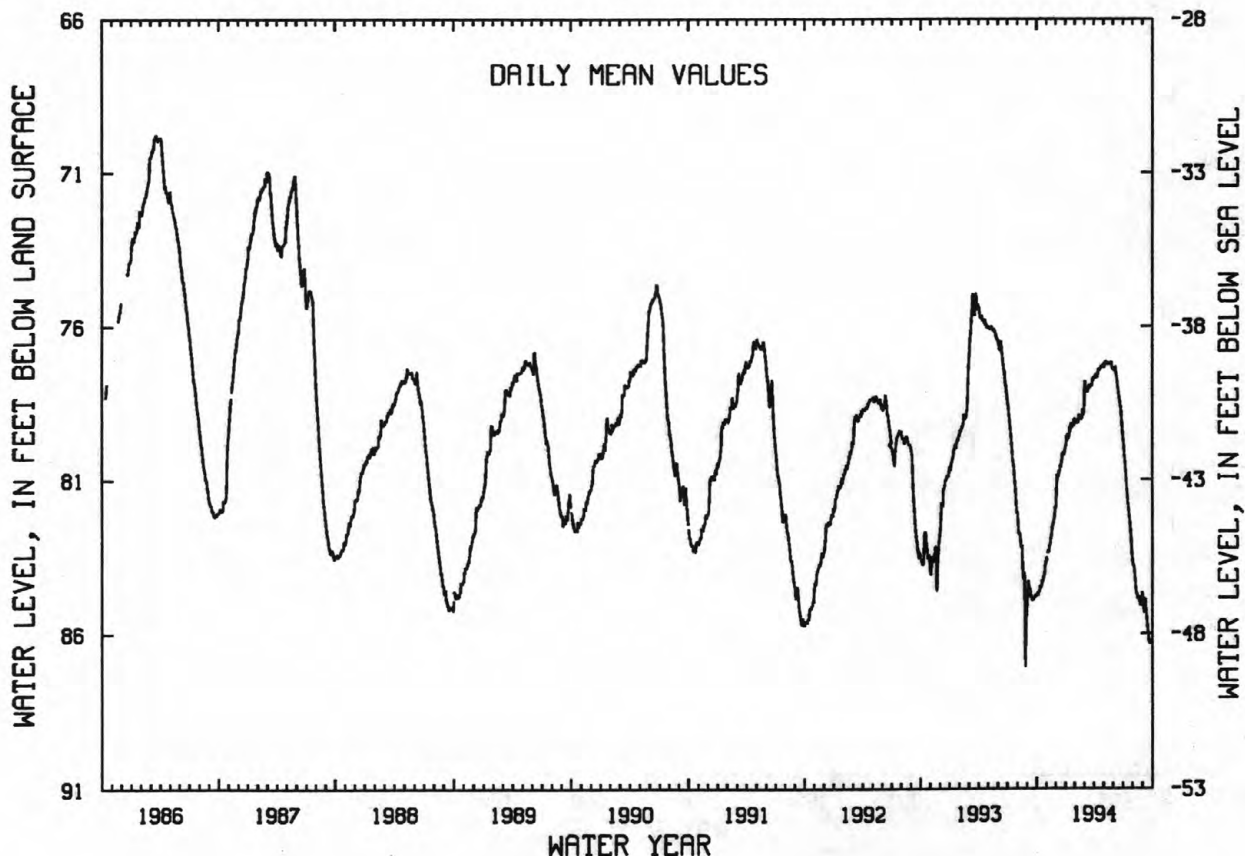
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 69.74 ft below land surface, Mar. 18, 1986; lowest, 87.29 ft below land surface, Aug. 26, 1993 (see remarks).

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	84.72	83.39	80.85	79.69	79.11	77.92	77.66	77.19	77.41	80.17	83.84	85.30
10	84.59	83.21	80.83	79.68	79.14	77.98	77.61	77.22	77.54	80.73	84.44	84.93
15	84.49	82.88	80.54	79.33	78.94	77.95	77.44	77.23	77.93	81.45	84.73	85.69
20	84.30	82.45	80.40	79.33	79.02	78.00	77.39	77.24	78.35	82.03	84.85	86.24
25	84.09	82.30	80.10	79.19	78.79	77.87	77.30	77.18	78.69	82.59	85.08	86.29
EOM	83.55	81.93	80.02	79.09	78.88	77.76	77.32	77.41	79.50	83.59	84.75	86.34
MEAN	84.35	82.81	80.60	79.40	79.00	77.99	77.49	77.24	78.09	81.54	84.57	85.69

WTR YR 1994 MEAN 80.74 HIGH 77.11 MAY 8 LOW 86.39 SEP 22

NJ-WRD WELL NO.01-0703



ATLANTIC COUNTY

393232074263902. Local I.D., FAA Intermediate Obs. NJ-WRD Well Number, 01-0775.

LOCATION.--Lat 39°26'39", long 74°32'32", Hydrologic Unit 02040302, at the NAFEC Atlantic City Airport, Egg Harbor Township.

Owner: Atlantic City Municipal Utilities Authority.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 182 ft, screened 132 to 182 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 38.1 ft above sea level.

Measuring point: Top of PVC casing, 1.25 ft above land surface.

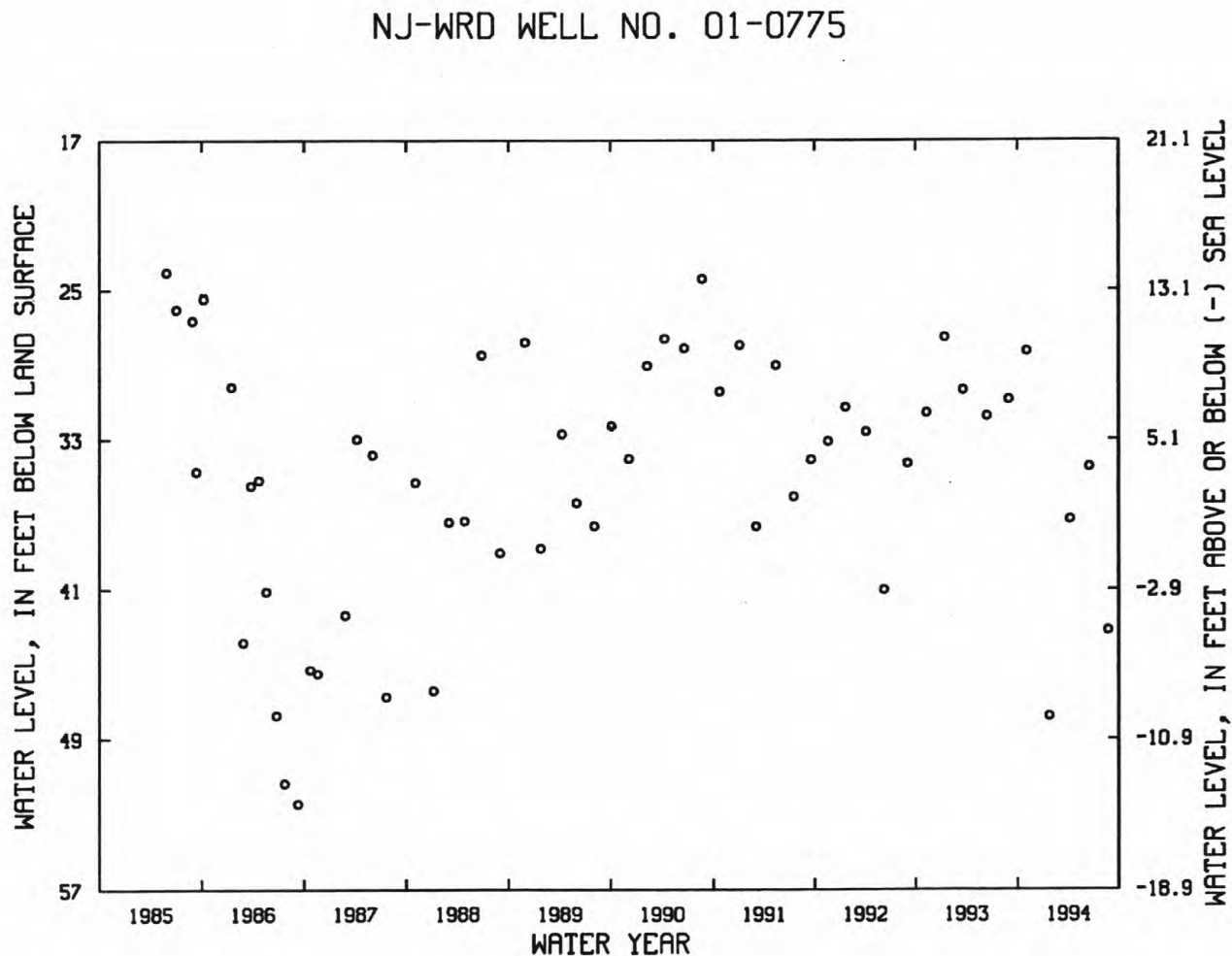
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--May 1985 to current year. Records for 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.06 ft below land surface, May 29, 1985; lowest, 52.43 ft below land surface, Sept. 9, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	28.28	APR 8	37.25	AUG 23	43.18
JAN 24	47.79	JUN 16	34.46		



ATLANTIC COUNTY

393232074263903. Local I.D., FAA Shallow Obs. NJ-WRD Well Number, 01-0776.

LOCATION.--Lat 39°26'39", long 74°32'32", Hydrologic Unit 02040302, at the NAFEC Atlantic City Airport, Egg Harbor Township.

Owner: Atlantic City Municipal Utilities Authority.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 93 ft, screened 73 to 93 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 38.1 ft above sea level.

Measuring point: Top of PVC casing, 0.95 ft above land surface.

REMARKS.--Water level is affected by the stage of the Atlantic City Reservoir.

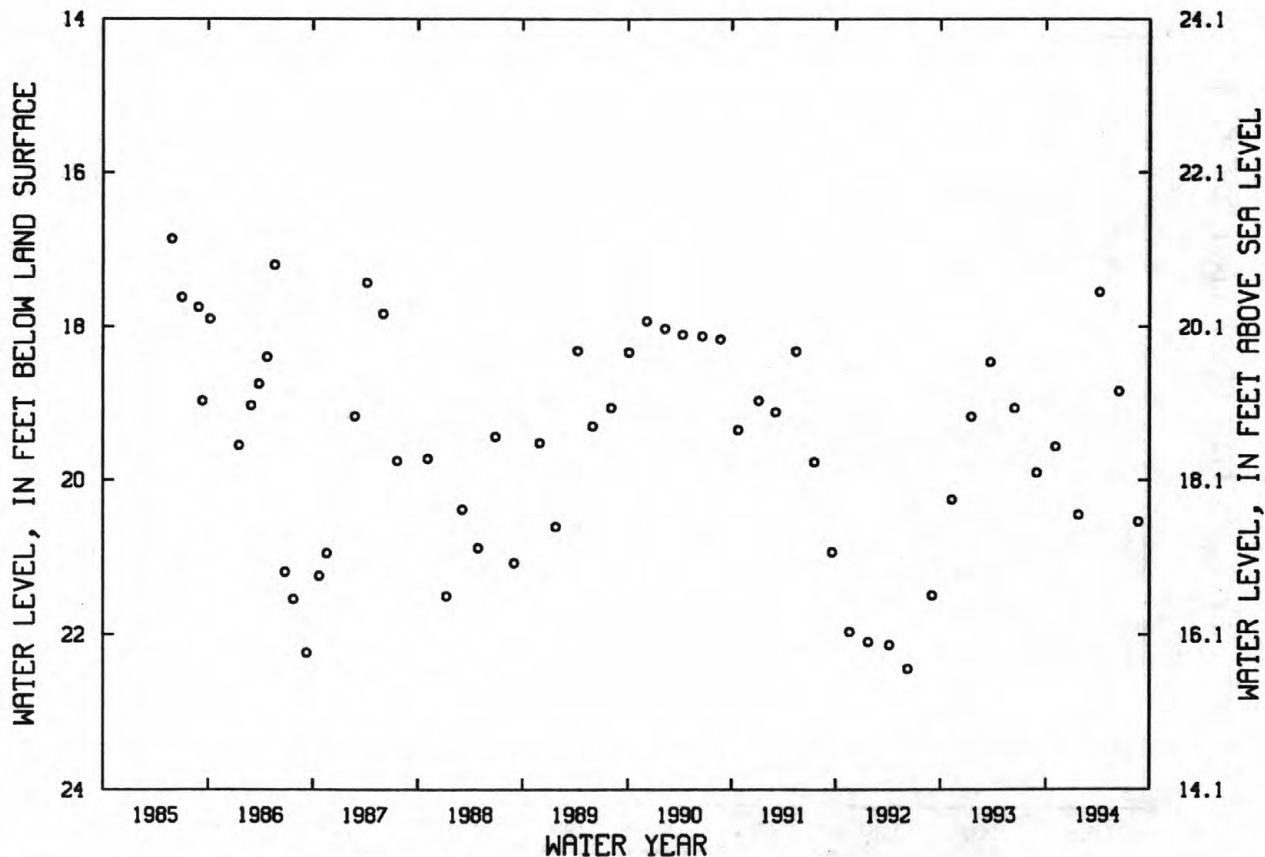
PERIOD OF RECORD.--May 1985 to current year. Records for 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.86 ft below land surface, May 29, 1985; lowest, 22.44 ft below land surface, June 9, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	19.56	APR 8	17.55	AUG 23	20.54
JAN 24	20.45	JUN 16	18.84		

NJ-WRD WELL NO. 01-0776



ATLANTIC COUNTY

39333074442401. Local I.D., Scholler 1 Obs. NJ-WRD Well Number, 01-0256.

LOCATION.--Lat 39°33'33", long 74°44'26", Hydrologic Unit 02040302, inside the boiler room at Scholler Inc., Weymouth Rd. and Second Rd., Elwood, Hamilton Township.

Owner: Scholler Incorporated.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 8 in., depth 275 ft, screened 254 to 275 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 93.19 ft above sea level.

Measuring point: Top of recorder shelf, 2.66 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Apr. 1962 to current year. Records for 1962 to 1976 are unpublished and are available in files of the New Jersey District Office.

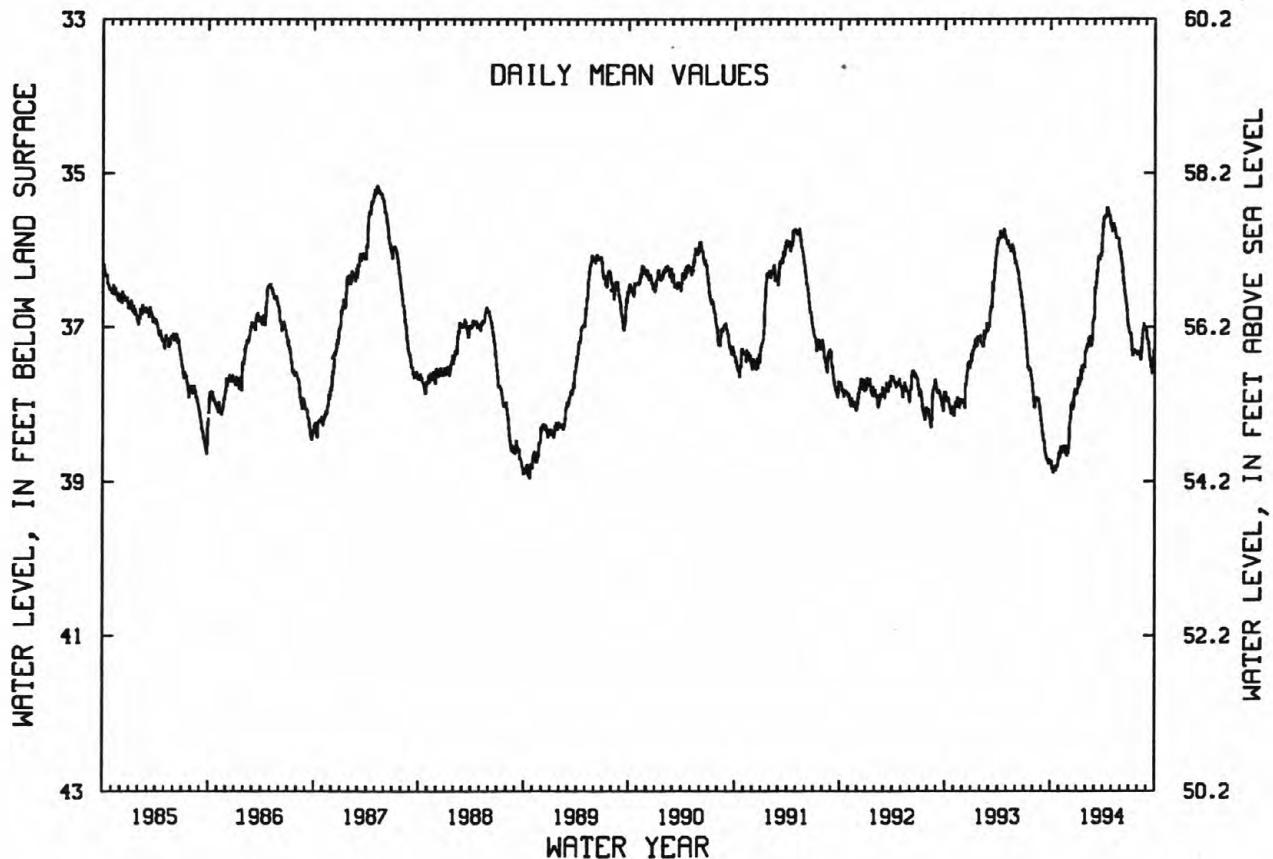
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.18 ft below land surface, Mar. 20, 1963; lowest, 39.56 ft below land surface, Sept. 13, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.78	38.57	38.30	37.75	37.22	36.49	---	35.71	36.16	37.08	37.31	37.16
10	38.85	38.58	38.10	37.75	37.23	36.26	35.54	35.71	36.35	37.20	37.40	37.32
15	38.85	38.54	37.97	37.60	37.18	36.09	35.47	35.80	36.53	37.29	37.15	37.48
20	38.84	38.53	38.03	37.58	37.23	36.12	35.49	35.84	36.67	37.30	37.04	37.59
25	38.78	38.66	37.80	37.51	36.94	36.04	35.55	35.84	36.83	37.34	37.02	37.41
EOM	38.61	38.62	37.86	37.31	36.91	35.75	35.68	36.01	37.00	37.36	37.04	37.33
MEAN	38.79	38.60	38.07	37.59	37.16	36.21	35.55	35.80	36.52	37.25	37.18	37.35

WTR YR 1994 MEAN 37.19 HIGH 35.42 APR 13-14,16,19 LOW 38.91 OCT 11

NJ-WRD WELL NO.01-0256



BERGEN COUNTY

410155074060201. Local I.D., Saddle River 17 Obs. NJ-WRD Well Number, 03-0289.

LOCATION.--Lat 41°01'55" Long 74°06'02", Hydrologic Unit 02030103, at the Saddle River Fire Station, East Saddle Rd. and East Allendale Rd., Saddle River.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 175 ft, open hole 165 to 175 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 148.9 ft above sea level.

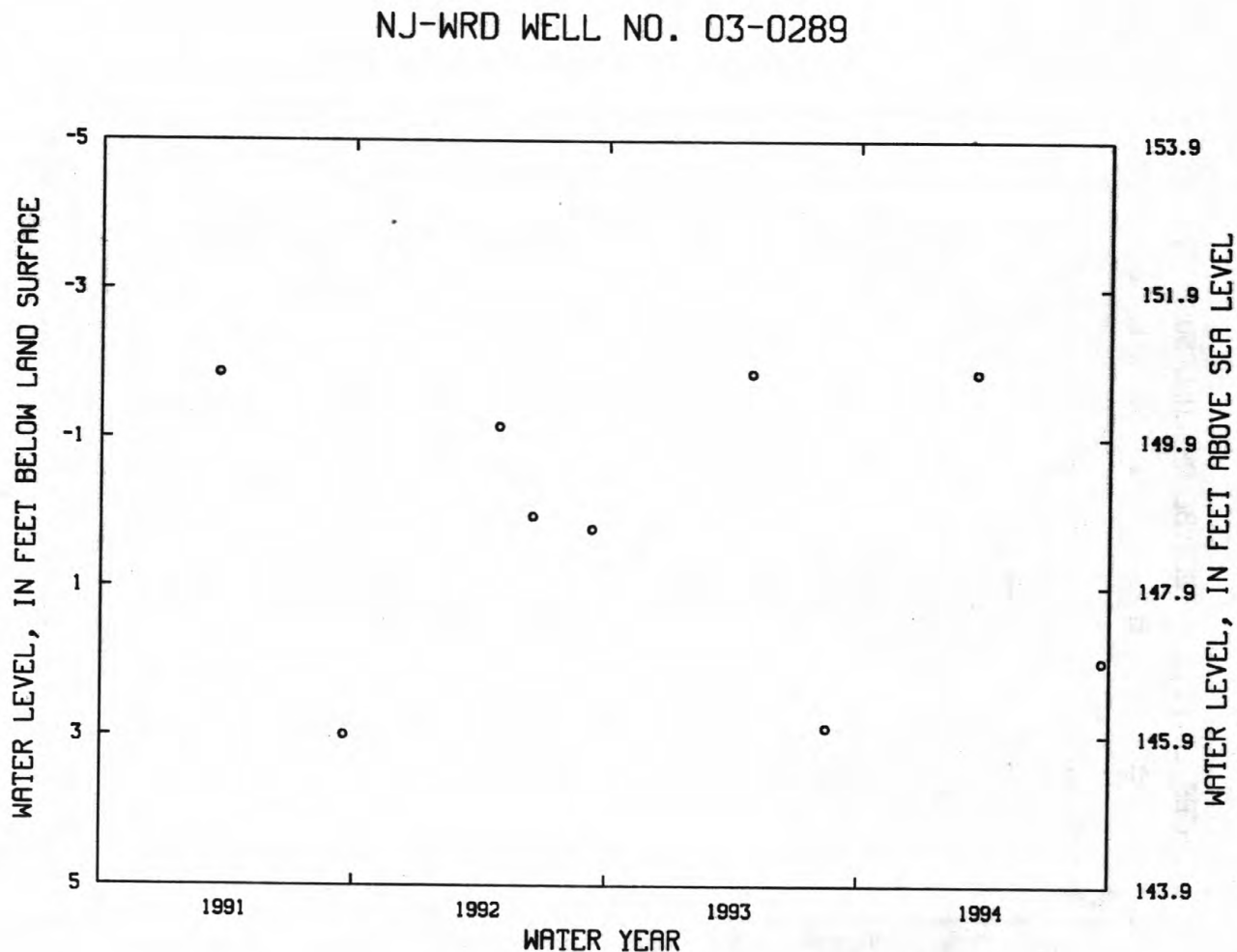
Measuring point: Top of casing, 2.00 ft above land surface.

PERIOD OF RECORD.--Mar. 1991 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level, greater than 1.87 ft above land surface, (flowing), Mar. 21, 1991, Apr. 29, 1993, Mar. 22, 1994; lowest, 2.99 ft below land surface, Sept. 17, 1991.

WATER LEVEL, IN FEET ABOVE (-) OR BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	-1.87	SEP 20	2.00



BURLINGTON COUNTY

394106074362501. Local I.D., Mount Obs. NJ-WRD Well Number, 05-0570.

LOCATION.--Lat 39°41'06", long 74°36'23", Hydrologic Unit 02040301, at Mount in Wharton State Forest, Washington Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 8 in., depth 25 ft, open-end concrete casing.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 63.24 ft above sea level.

Measuring point: Top of concrete casing, 0.60 ft above land surface.

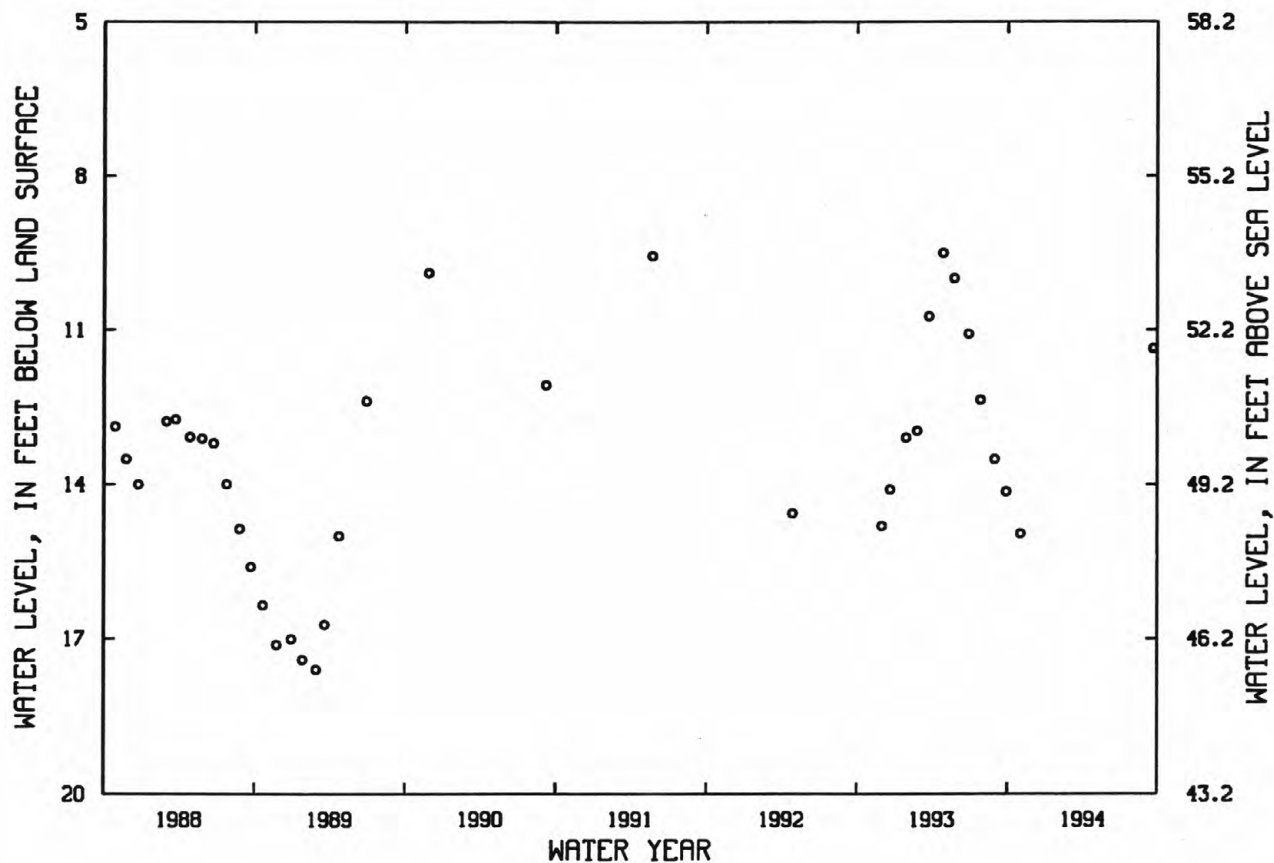
PERIOD OF RECORD.--Sept. 1955 to current year. Records for 1955 to 1977 and 1987 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.92 ft below land surface, Aug. 26, 1958; lowest, 18.51 ft below land surface, Sept. 30-Oct. 6, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1	14.95	SEP 21	11.36

NJ-WRD WELL NO. 05-0570



BURLINGTON COUNTY

394422074430901. Local I.D., Atsion 1 Obs. NJ-WRD Well Number, 05-0407.

LOCATION.--Lat 39°44'22", long 74°43'09", Hydrologic Unit 02040301, about 2,200 ft east of Rt. 206, in Atsion, Shamong Township.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 260 ft, screened 240 to 260 ft.

INSTRUMENTATION.--None: periodic measurements with a 6 ft ruler.

DATUM.--Land surface is 46.76 ft above sea level.

Measuring point: Top edge of cap, 3.87 ft above land surface.

REMARKS.--This is a flowing well. The water level is measured in a clear plastic tube above land surface.

PERIOD OF RECORD.--Oct. 1963 to Sept. 1966, June 1968 to current year. Records for 1963 to 1966 and 1968

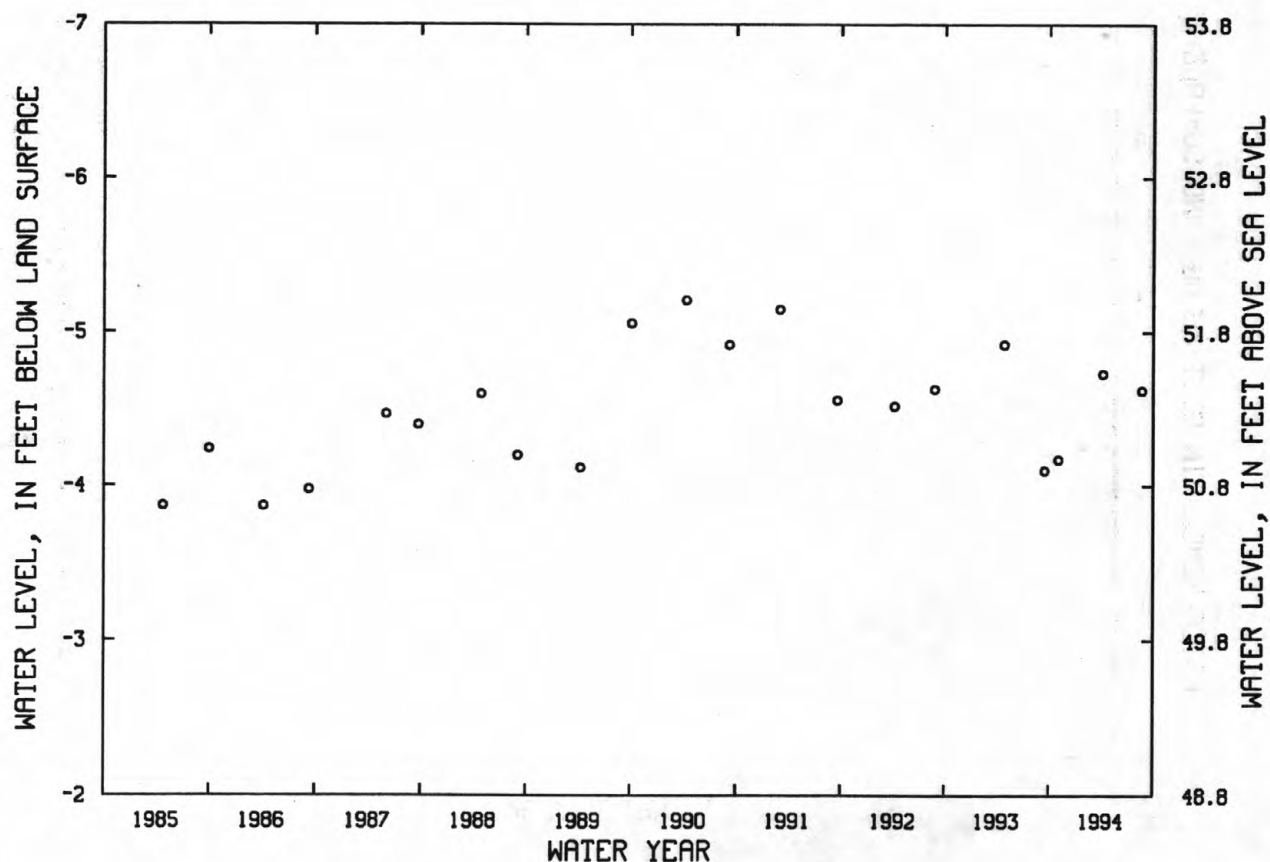
to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.49 ft above land surface, Dec. 15, 1965; lowest, 3.32 ft above land surface, Oct. 9, 1970.

WATER LEVEL, IN FEET ABOVE (-) LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	-4.17	APR 8	-4.73	AUG 23	-4.62

NJ-WRD WELL NO. 05-0407



BURLINGTON COUNTY

394422074430902. Local I.D., Atsion 2 Obs. NJ-WRD Well Number, 05-0408.

LOCATION.--Lat 39°44'22", long 74°43'09", Hydrologic Unit 02040301, about 2,200 ft east of Rt. 206, in Atsion, Shamong Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Driven water-table observation well, diameter 1.25 in., depth 65 ft, screened 63 to 65 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 47.52 ft above sea level.

Measuring point: Top of casing, 1.00 ft above land surface.

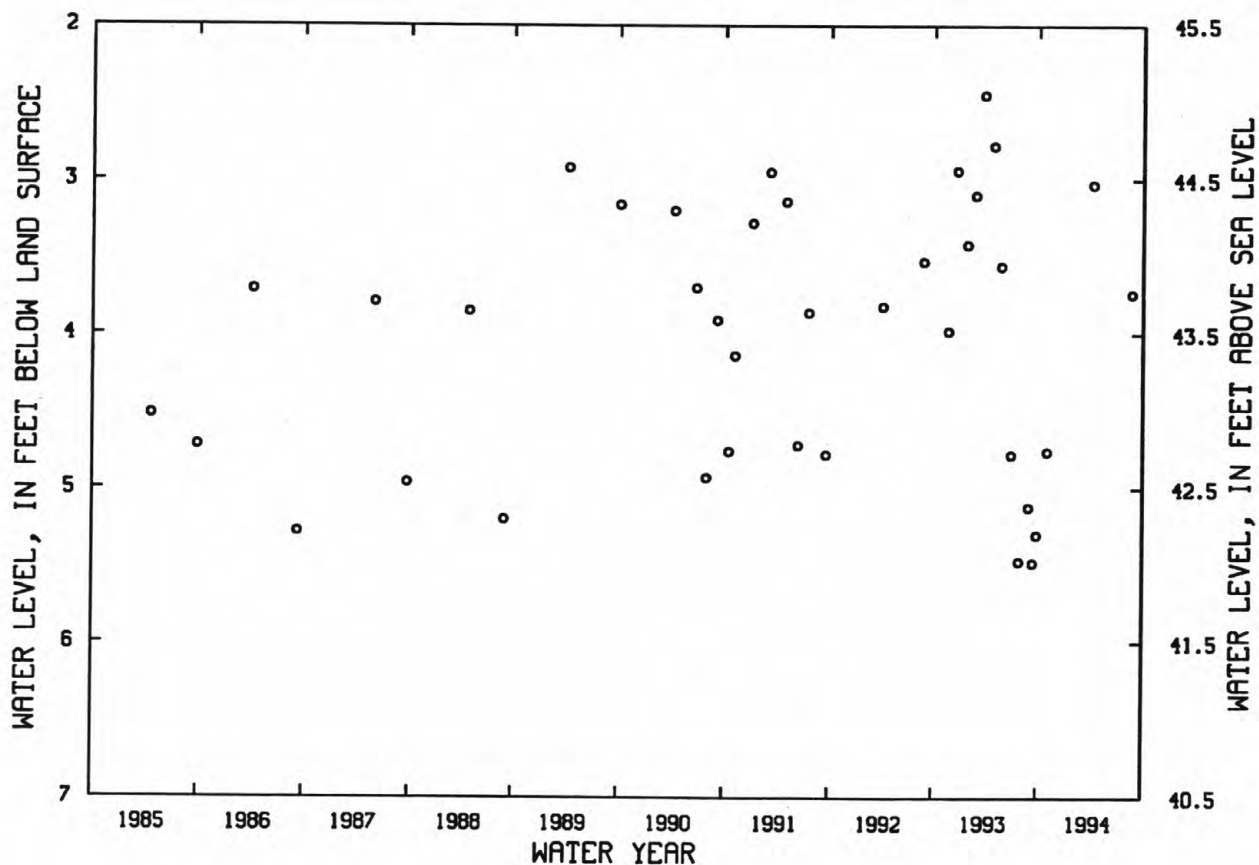
PERIOD OF RECORD.--Oct. 1963 to current year. Records for 1963 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.40 ft below land surface, Apr. 28, 1983; lowest, 6.51 ft below land surface, Sept. 9, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	4.76	APR 8	3.03	AUG 23	3.74

NJ-WRD WELL NO. 05-0408



BURLINGTON COUNTY

394422074430903. Local I.D., Atsion 3 Obs. NJ-WRD Well Number, 05-0409.

LOCATION.--Lat 39°44'22", long 74°43'09", Hydrologic Unit 02040301, about 2,200 ft east of Rt. 206, in Atsion, Shamong Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Driven water-table observation well, diameter 1.25 in., depth 17 ft, screened 14 to 17 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 47.13 ft above sea level.

Measuring point: Top of casing, 2.00 ft above land surface.

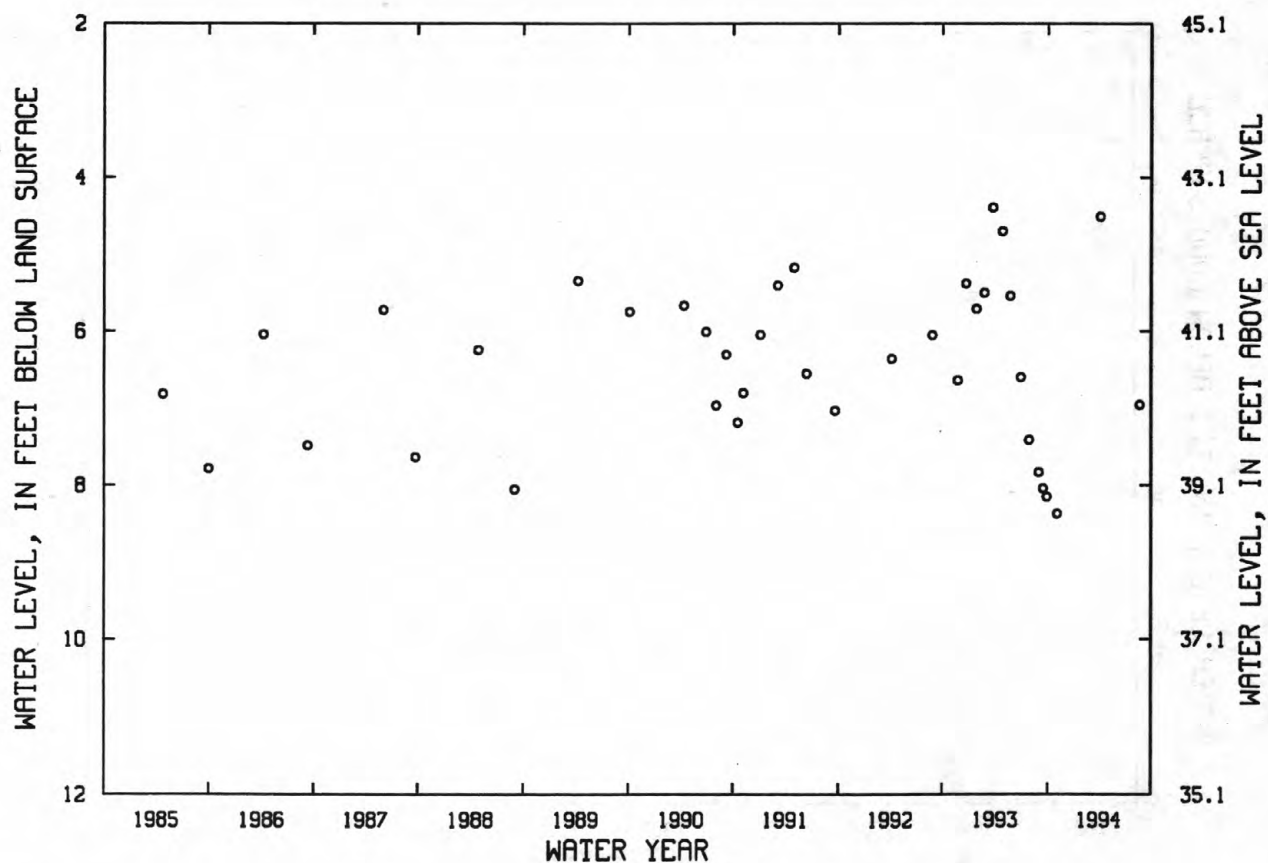
PERIOD OF RECORD.--October 1963 to current year. Records for 1963 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.04 ft below land surface, Apr. 28, 1983; lowest, 8.85 ft below land surface, Dec. 15, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 4	8.37	APR 8	4.51	AUG 23	6.96

NJ-WRD WELL NO. 05-0409



BURLINGTON COUNTY

394452074281901. Local I.D., Penn SF Shallow Obs. NJ-WRD Well Number, 05-0628.

LOCATION.--Lat 39°44'52", long 74°28'19", Hydrologic Unit 02040301, about 500 ft south of the intersection of Sooy Rd. and Cabin Rd., Penn State Forest, Washington Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 12 ft, open-end steel casing.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 78.78 ft above sea level.

Measuring point: Top of casing, 2.70 ft above land surface. Measuring point prior to July 1963, top of coupling, 0.11 ft above land surface.

REMARKS.--Well deepened from 10 ft to 12 ft in July 1963.

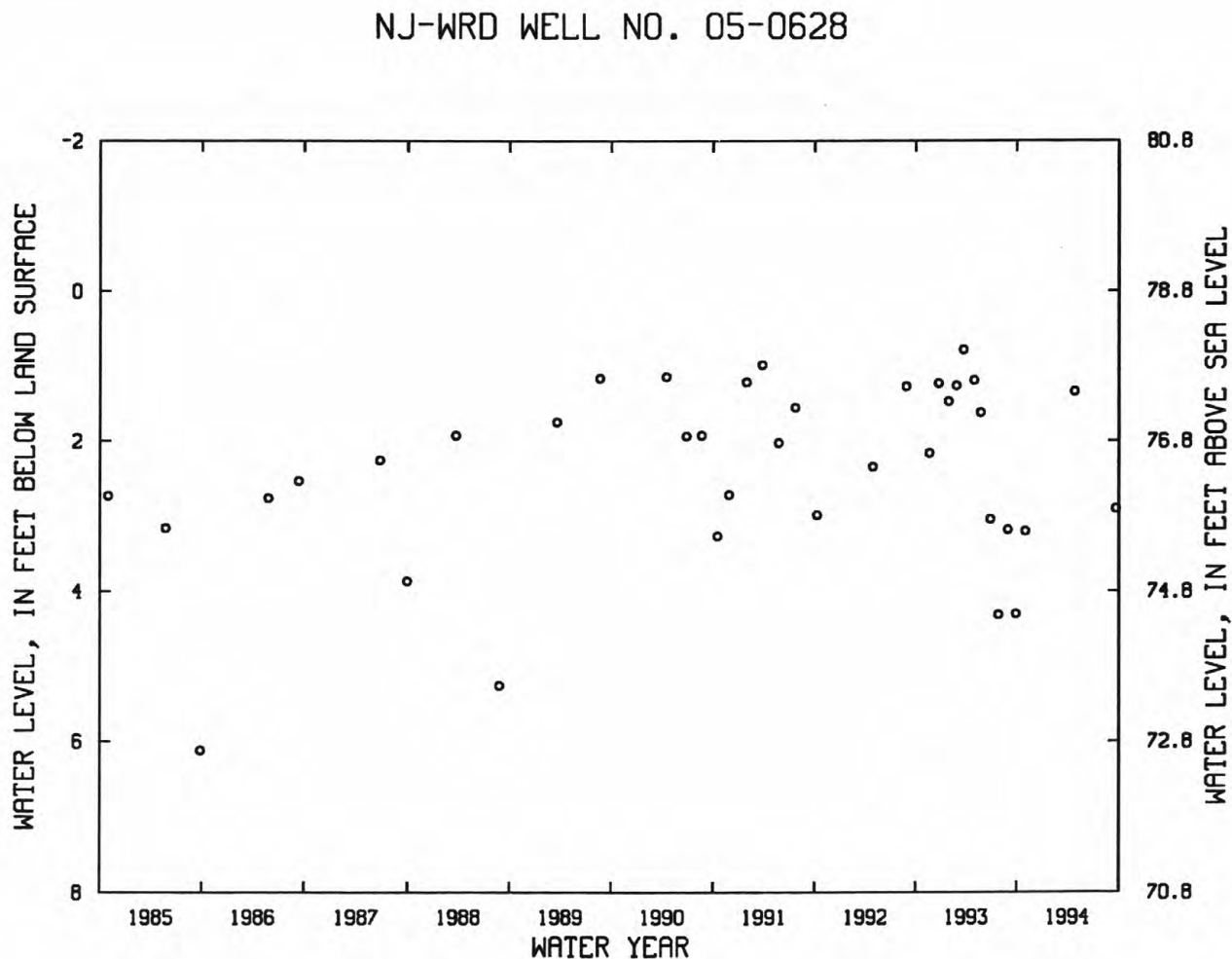
PERIOD OF RECORD.--Dec. 1936 to current year. Records for 1975 to 1981 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, greater than 0.11 ft above land surface (flowing), several times, 1959-62; lowest, 6.12 ft below land surface, Sept. 26, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1	3.20	APR 28	1.34	SEP 21	2.90



BURLINGTON COUNTY

394513074280601. Local I.D., Penn SF Deep Obs. NJ-WRD Well Number, 05-0630.

LOCATION.--Lat 39°45'13", long 74°28'06", Hydrologic Unit 02040301, about 800 ft south of the intersection of Sooy Rd. and Chatsworth Rd., Penn State Forest, Washington Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 41 ft, open end.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 104.30 ft above sea level.

Measuring point: Top of shelter shelf, 2.36 ft above land surface.

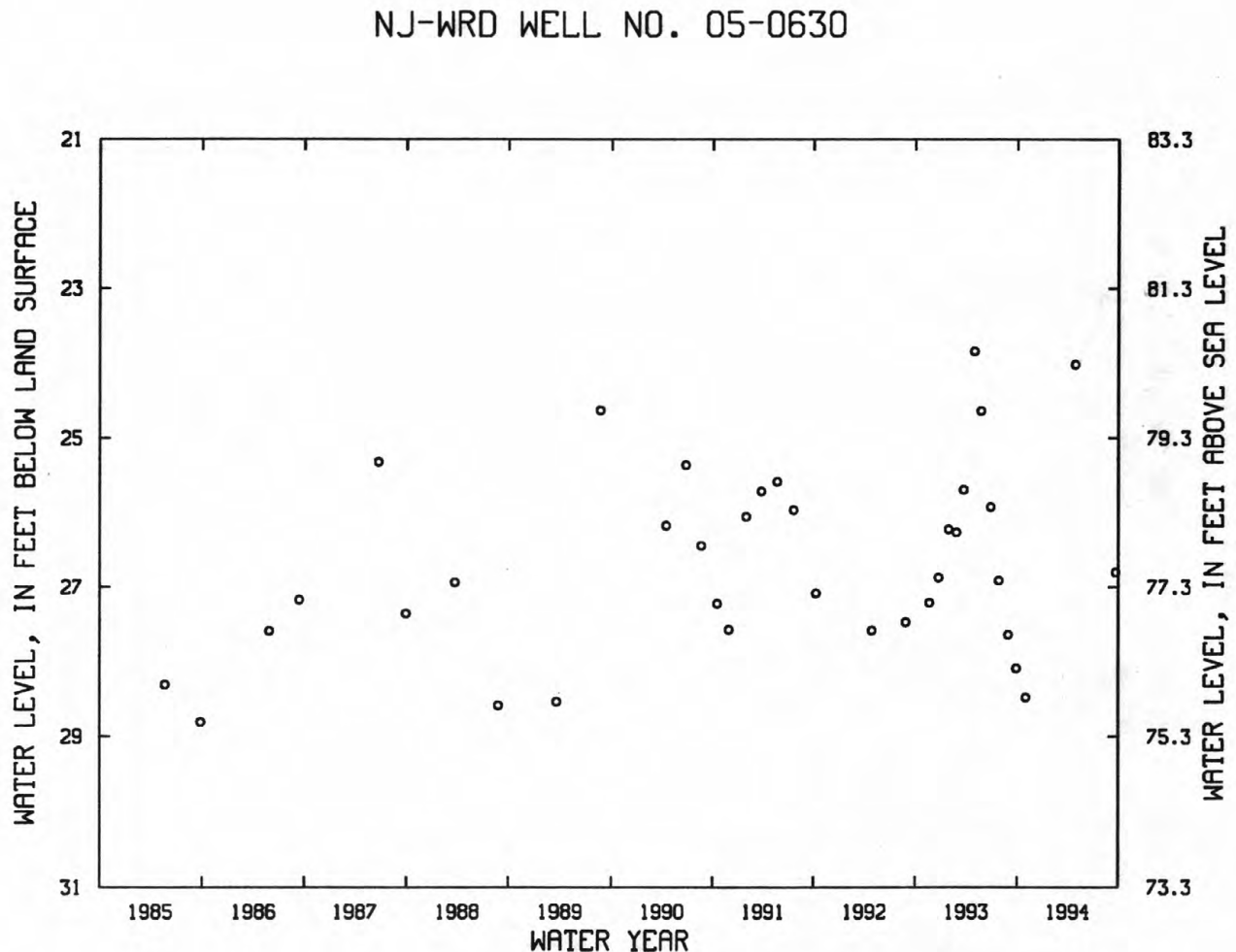
REMARKS.--Well depth was 30 ft before deepening in July 1963.

PERIOD OF RECORD.--Jan 1951 to current year. Records for 1951 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.73 ft below land surface, May 11, 1970; lowest, 29.60 ft below land surface, Jan. 24-Feb. 15, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1	28.47	APR 28	24.02	SEP 21	26.80



BURLINGTON COUNTY

394914074254401. Local I.D., Coyle Airport Obs. NJ-WRD Well Number, 05-0676.

LOCATION.--Lat 39°49'14", long 74°25'46", Hydrologic Unit 02040301, about 200 ft north of Rt. 72, and 3.5 mi west of the intersection of routes 549 and 72, Woodland Township.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 540 ft, screened 530 to 540 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 199.19 ft above sea level.

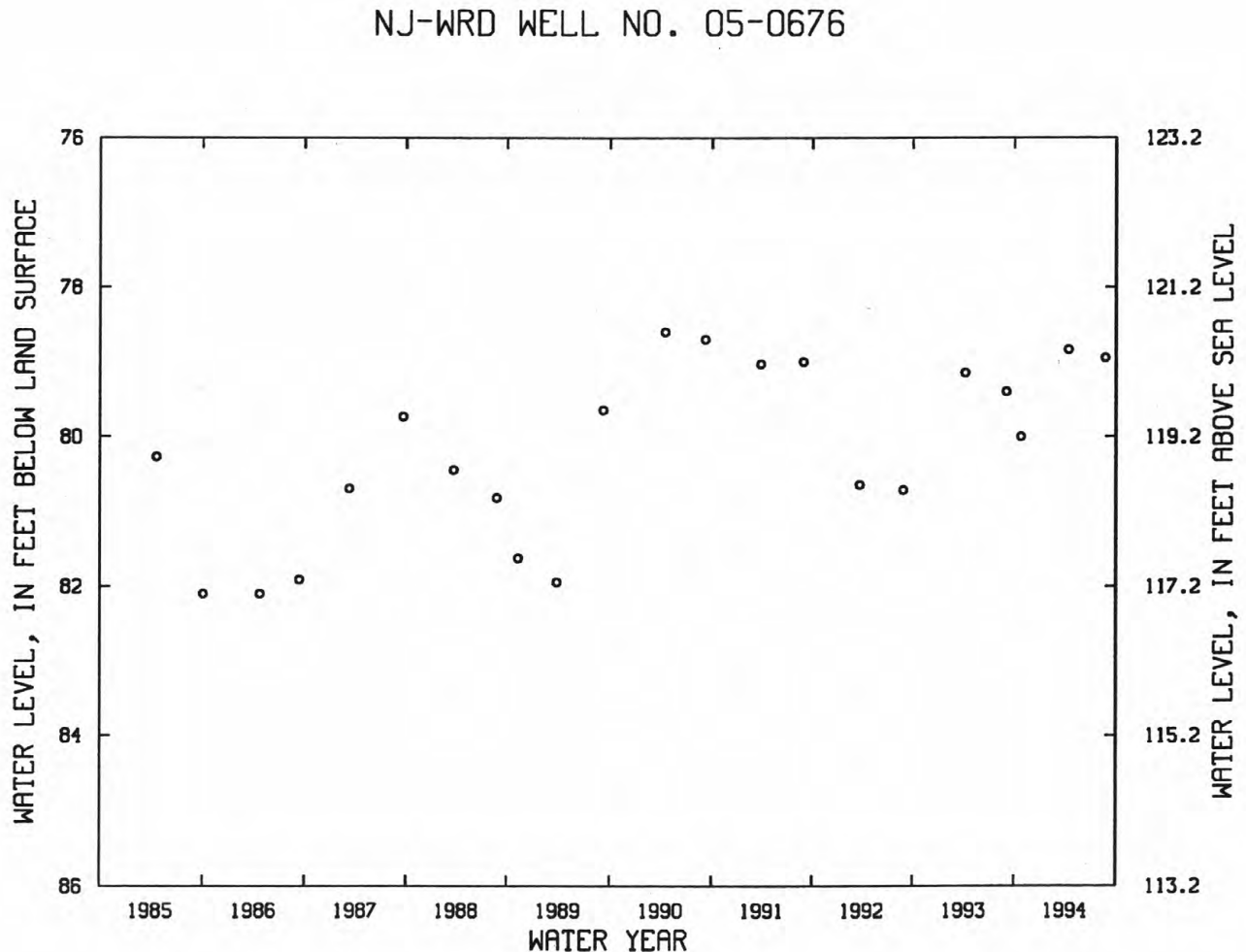
Measuring point: Top of shelter shelf, 2.40 ft above land surface.

PERIOD OF RECORD.--Feb. 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 75.41 ft below land surface, June 14, 1973; lowest, 83.24 ft below land surface, Sept. 12, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	80.00	APR 13	78.84	AUG 24	78.95



GROUND-WATER LEVELS

BURLINGTON COUNTY

395122074301701. Local I.D., Butler Place 1 Obs. NJ-WRD Well Number, 05-0683.

LOCATION.--Lat 39°51'22", long 74°30'17", Hydrologic Unit 02040301, in Lebanon State Forest, Woodland Township.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 2,117 ft, screened 2,102 to 2,117 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 140.66 ft above sea level.

Measuring point: Top of coupling, 2.80 ft above land surface.

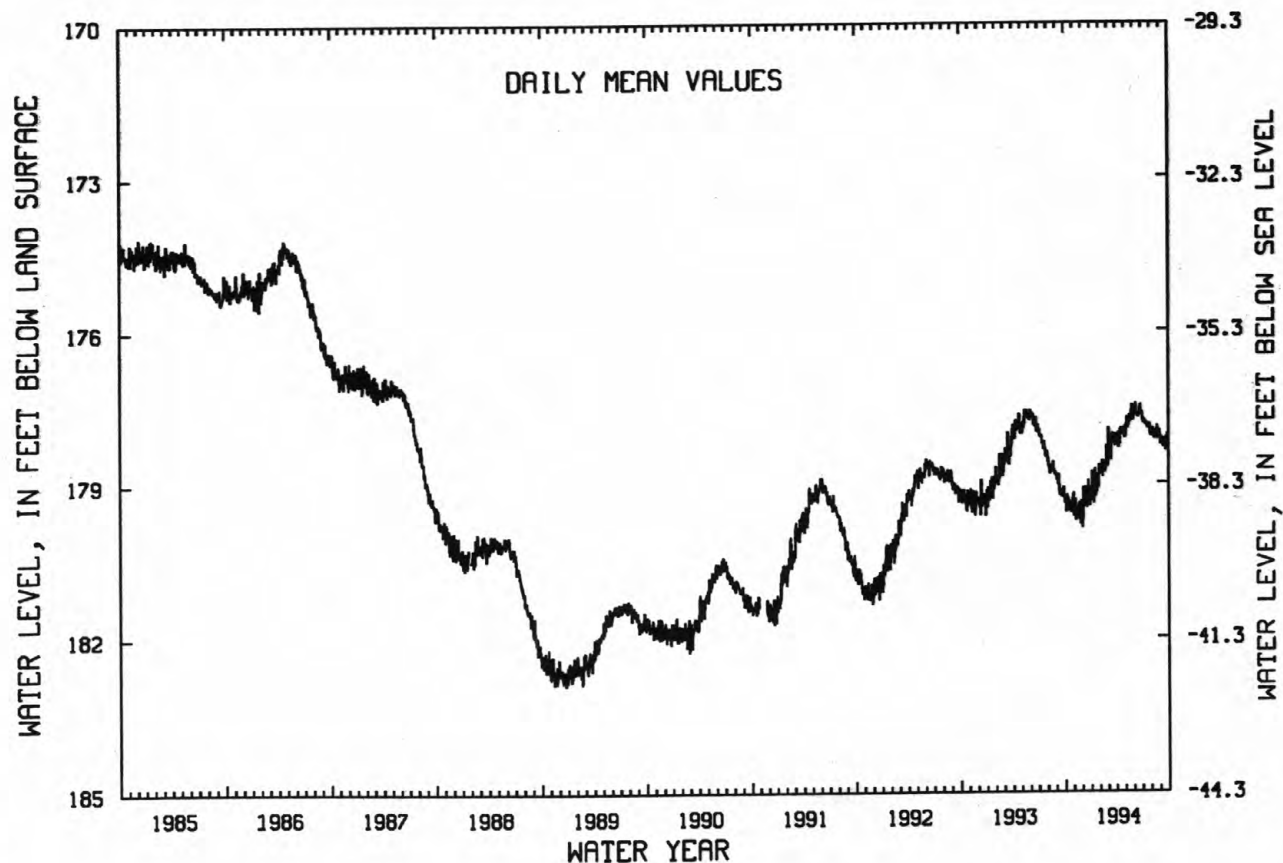
PERIOD OF RECORD.--Oct. 1964 to current year. Records for 1964 to 1977 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 143.20 ft below land surface, Feb. 25, 1965; lowest, 182.96 ft below land surface, Dec. 22-23, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	179.39	179.35	179.09	179.07	178.65	178.20	178.10	177.85	177.69	177.82	177.92	178.18
10	179.39	179.62	179.28	179.40	178.89	178.19	178.09	177.87	177.64	177.78	178.09	178.23
15	179.53	179.48	179.12	178.92	178.64	178.08	178.01	177.79	177.69	177.80	178.01	178.27
20	179.52	179.38	179.35	179.18	178.70	178.18	177.99	177.80	177.67	177.93	178.03	178.36
25	179.50	179.77	179.08	178.94	178.46	178.10	177.93	177.55	177.48	177.85	178.12	178.19
EOM	179.19	179.73	179.36	---	178.68	178.24	178.01	177.71	177.61	178.08	178.06	178.15
MEAN	179.41	179.58	179.32	179.02	178.67	178.23	178.06	177.79	177.61	177.85	178.04	178.20
WTR YR 1994	MEAN 178.48 HIGH 177.42 MAY 26-27, JUN 7 LOW 179.90 DEC 1											

NJ-WRD WELL NO.05-0683



BURLINGTON COUNTY

395122074301702. Local I.D., Butler Place 2 Obs. NJ-WRD Well Number, 05-0684.

LOCATION.--Lat 39°51'22", long 74°30'17", Hydrologic Unit 02040301, in Lebanon State Forest, Woodland Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 170 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 140.82 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.67 ft above land surface.

PERIOD OF RECORD.--May 1965 to current year. Records for 1965 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.14 ft below land surface, Feb. 15, 1973; lowest, 23.53 ft below land surface, between Sept. 26, and Dec. 11, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

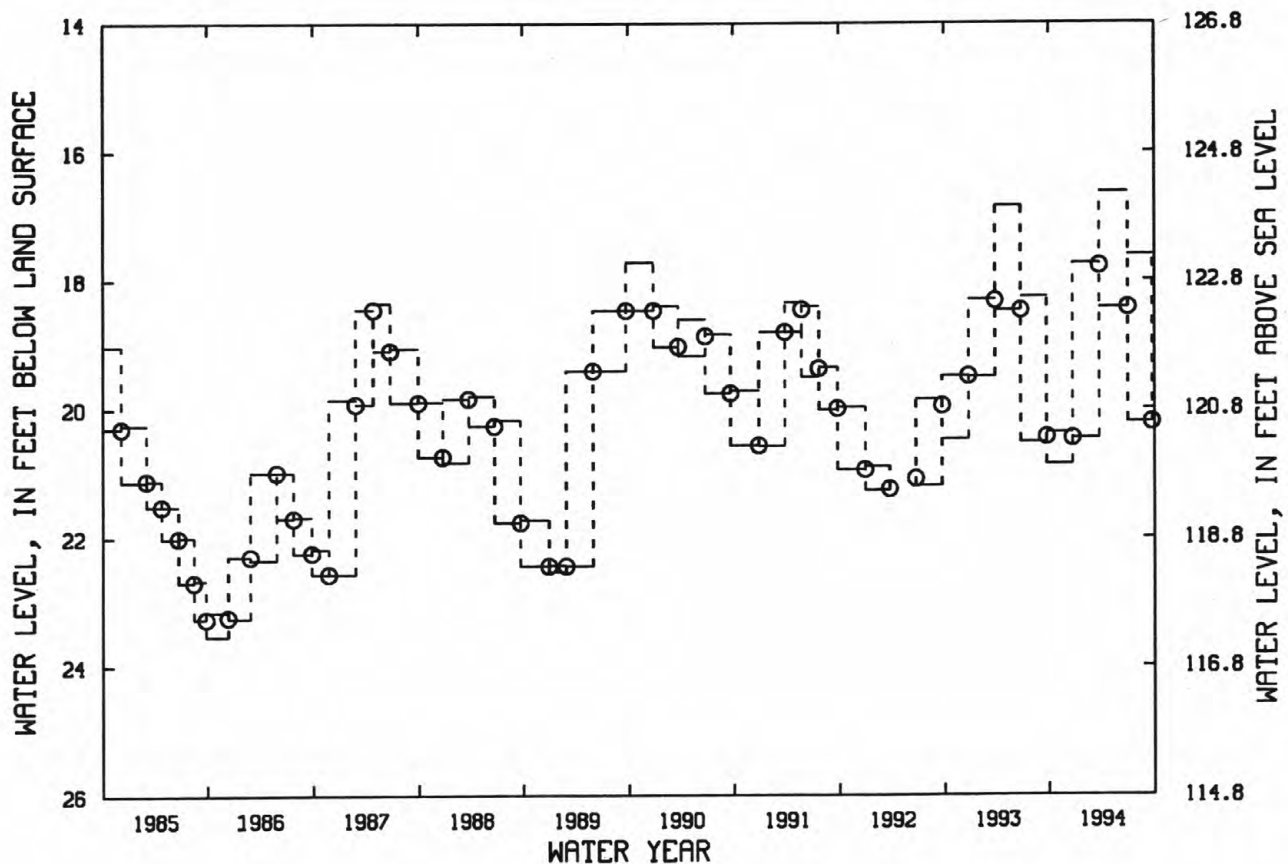
WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 23, 1993 TO DEC. 22, 1993	20.37	20.86	DEC. 22, 1993	20.46
DEC. 22, 1993 TO MAR. 24, 1994	17.74	20.46	MAR. 24, 1994	17.78
MAR. 24, 1994 TO JUNE 30, 1994	16.63	18.43	JUNE 30, 1994	18.43
JUNE 30, 1994 TO SEPT. 21, 1994	17.61	20.21	SEPT. 21, 1994	20.21

NJ-WRD WELL NO. 05-0684

EXPLANATION
 TIME PERIOD
 [] HIGHEST WATER LEVEL
 [] MEASURED WATER LEVEL
 [] LOWEST WATER LEVEL



GROUND-WATER LEVELS

BURLINGTON COUNTY

395150074284201. Local I.D., Lebanon State Forest 23-D Obs. NJ-WRD Well Number, 05-0689.

LOCATION.--Lat 39°51'52", long 74°28'48", Hydrologic Unit 02040202, in Lebanon State Forest, Woodland Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 8 in., depth 33 ft, open-end cement casing.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 152.02 ft above sea level.

Measuring point: Top of casing, 0.70 ft above land surface.

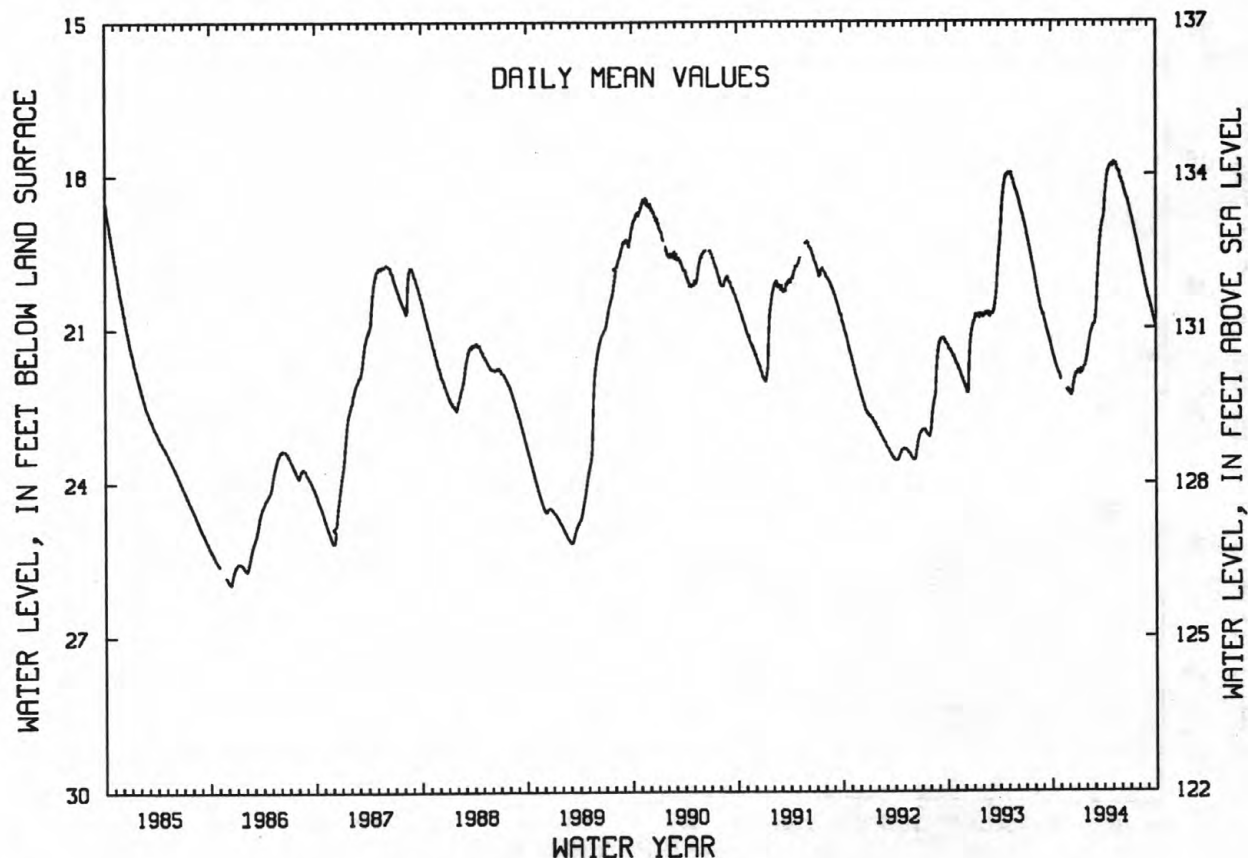
PERIOD OF RECORD.--Sept. 1955 to current year. Records for 1955 to 1979 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.37 ft below land surface, Sept. 11, 1958; lowest, 25.97 ft below land surface, Dec. 8-10, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.47	---	22.20	21.86	21.44	20.72	18.56	17.76	18.18	18.78	19.57	20.41
10	21.58	---	22.27	21.89	21.27	20.14	18.22	17.81	18.27	18.89	19.73	20.53
15	21.68	---	22.13	21.82	21.10	19.69	18.01	17.81	18.37	19.01	19.87	20.64
20	21.76	---	21.99	21.82	21.01	19.31	17.90	17.92	18.46	19.15	20.01	20.76
25	21.84	22.21	21.88	21.74	20.95	19.03	17.83	17.94	18.53	19.26	20.17	20.87
EOM	21.91	22.24	21.86	21.62	20.93	18.87	17.81	18.08	18.65	19.45	20.31	20.98
MEAN	21.68	---	22.09	21.79	21.17	19.74	18.13	17.88	18.37	19.05	19.90	20.65
WTR YR 1994 MEAN 20.10 HIGH 17.73 MAY 8 LOW 22.30 DEC 9-10												

NJ-WRD WELL NO.05-0689



BURLINGTON COUNTY

395315074494601. Local I.D., Medford Twp MW-1 Obs. NJ-WRD Well Number, 05-1155.

LOCATION.--Lat 39°53'15", long 74°49'46", Hydrologic Unit 02040202, on the east side of Mill St. (County Rt. 623), 0.6 mi south of County Rt. 541, Medford Township.

Owner: Medford Township.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 180 ft, screened 120 to 180 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 46.15 ft above sea level (levels by Medford Township).

Measuring point: Top of recorder shelf, 2.90 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

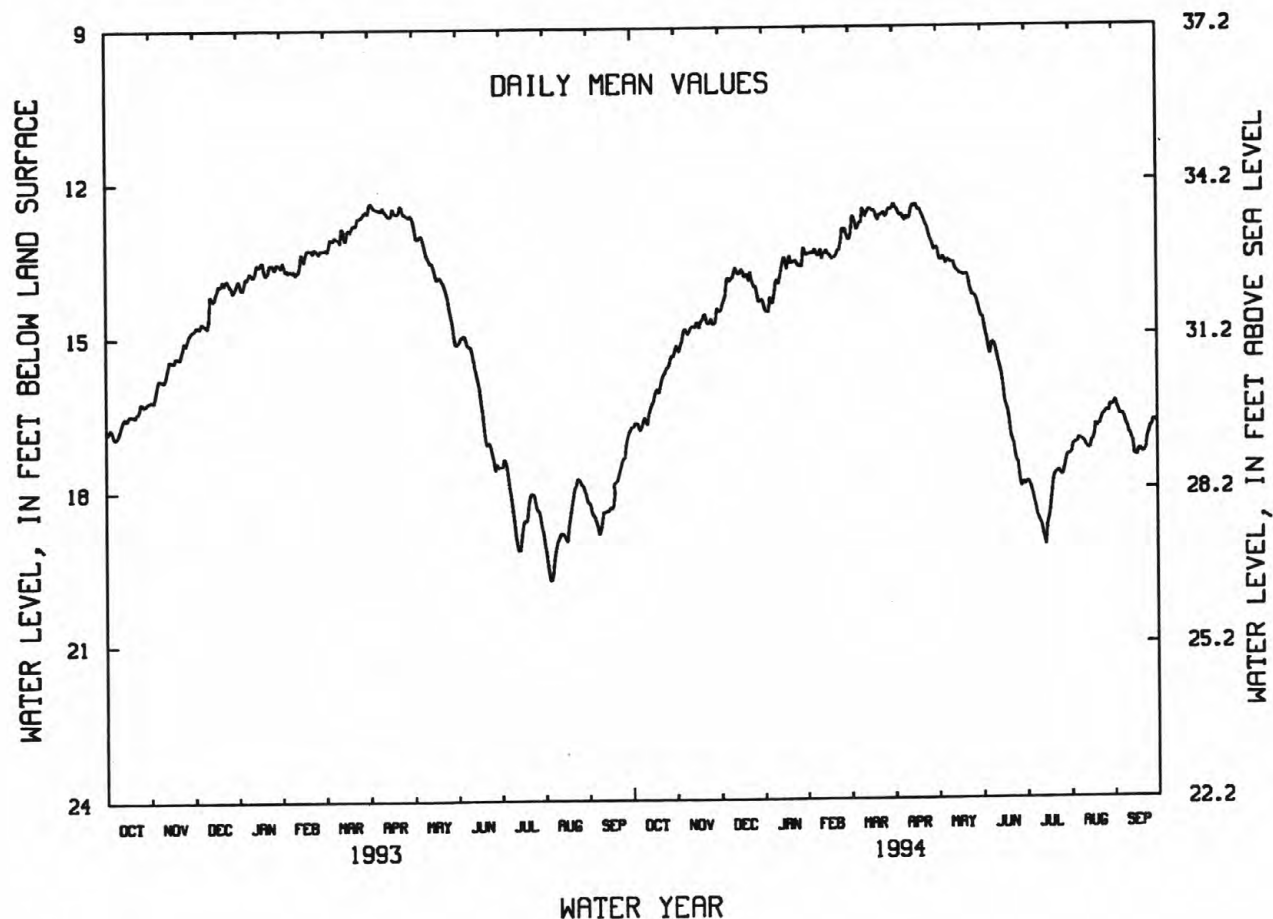
PERIOD OF RECORD.--Sept. 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.34 ft below land surface, Apr. 1, 1993; lowest, 19.82 ft below land surface, Aug. 4-5, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.77	14.92	13.89	14.37	13.32	12.82	12.67	13.48	15.30	18.10	17.11	16.56
10	16.65	14.84	13.75	13.99	13.51	12.54	12.69	13.59	15.31	18.64	17.10	16.93
15	16.26	14.74	13.71	13.55	13.42	12.53	12.51	13.77	16.04	18.71	17.08	17.36
20	15.97	14.57	13.93	13.57	13.43	12.71	12.64	13.84	16.94	17.74	16.77	17.32
25	15.60	14.77	14.03	13.65	12.99	12.62	13.02	14.24	17.50	17.73	16.52	16.82
EOM	15.18	14.52	14.45	13.42	13.14	12.51	13.30	14.66	17.93	17.34	16.34	16.75
MEAN	16.13	14.81	14.00	13.79	13.33	12.69	12.75	13.85	16.28	18.08	16.87	16.91
WTR YR 1994	MEAN 14.97	HIGH 12.35	APR 16	LOW 19.25	JUL 14							

NJ-WRD WELL NO.05-1155



GROUND-WATER LEVELS

BURLINGTON COUNTY

395524074502501. Local I.D., Medford 1 Obs. NJ-WRD Well Number, 05-0258.

LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at Medford Wildlife Management Area, Medford Township.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 410 ft, screened 400 to 410 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 70.77 ft above sea level.

Measuring point: Top of coupling, 2.70 ft above land surface.

REMARKS.-- Water level is affected by nearby pumping.

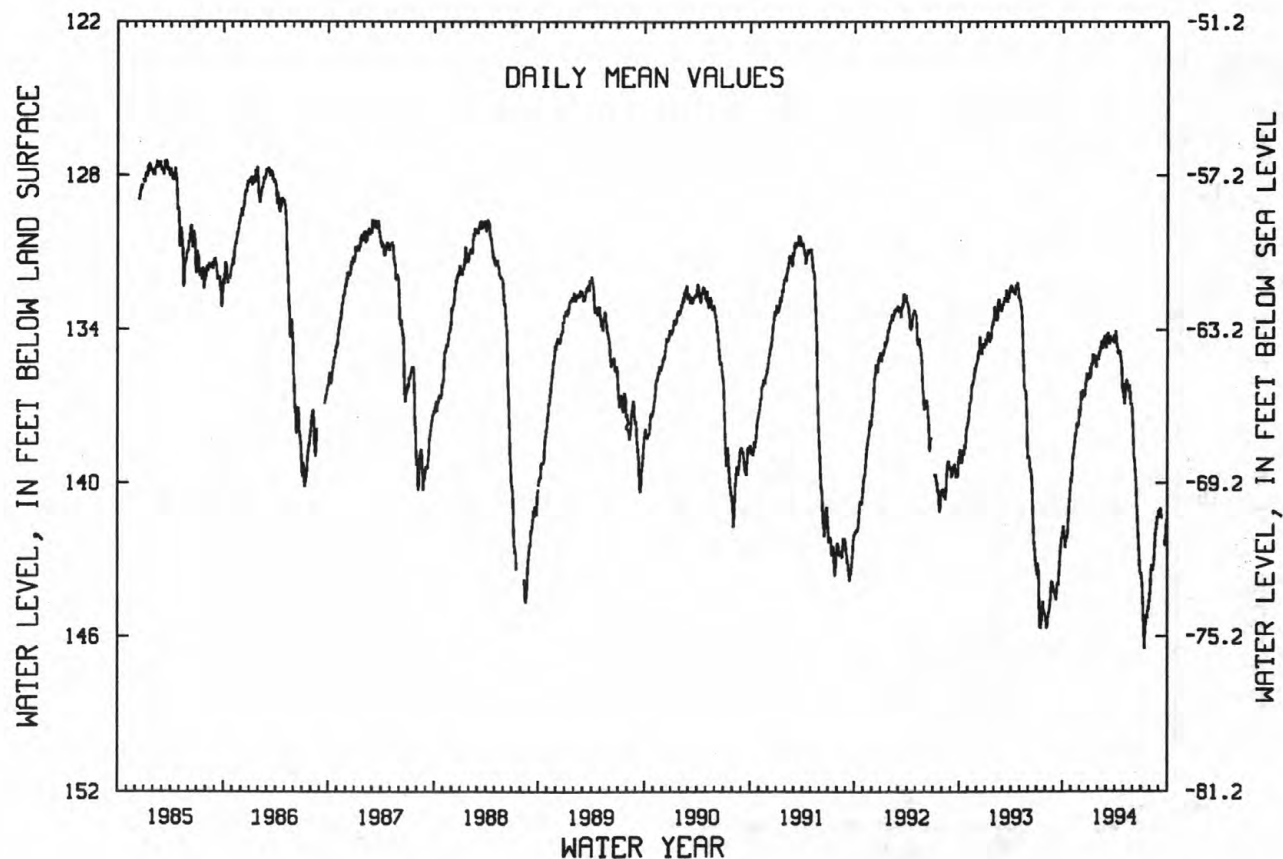
PERIOD OF RECORD.--Oct. 1963 to current year. Records for 1963 to 1975 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 85.22 ft below land surface, Feb. 16-19, 1964; lowest, 146.53 ft below land surface, July 14, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	141.81	139.21	136.43	135.80	134.87	134.21	134.23	136.70	138.71	143.94	143.44	141.04
10	142.43	138.67	136.52	135.38	134.85	134.29	134.67	135.97	139.36	145.43	143.37	141.39
15	142.19	138.05	136.44	135.03	134.64	134.28	134.95	136.09	140.33	146.19	143.18	---
20	141.76	137.63	136.21	135.27	134.42	134.32	134.95	136.37	141.59	145.24	142.09	---
25	140.79	137.80	135.70	135.45	134.35	134.34	135.49	136.86	142.77	144.99	141.59	142.14
EOM	139.77	137.35	135.92	135.12	134.63	134.45	136.33	137.22	143.58	144.42	141.25	141.47
MEAN	141.59	138.31	136.36	135.33	134.68	134.35	134.98	136.46	140.65	145.02	142.64	141.54
WTR YR 1994 MEAN 138.44 HIGH 134.00 APR 4 LOW 146.53 JUL 14												

NJ-WRD WELL NO.05-0258



BURLINGTON COUNTY

395524074502502. Local I.D., Medford 2 Obs. NJ-WRD Well Number, 05-0259.

LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at the Medford Wildlife Management Area, Medford Township.

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 263 ft, screened 253 to 263 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 72.92 ft above sea level.

Measuring point: Top of well shelter shelf, 3.22 ft above land surface.

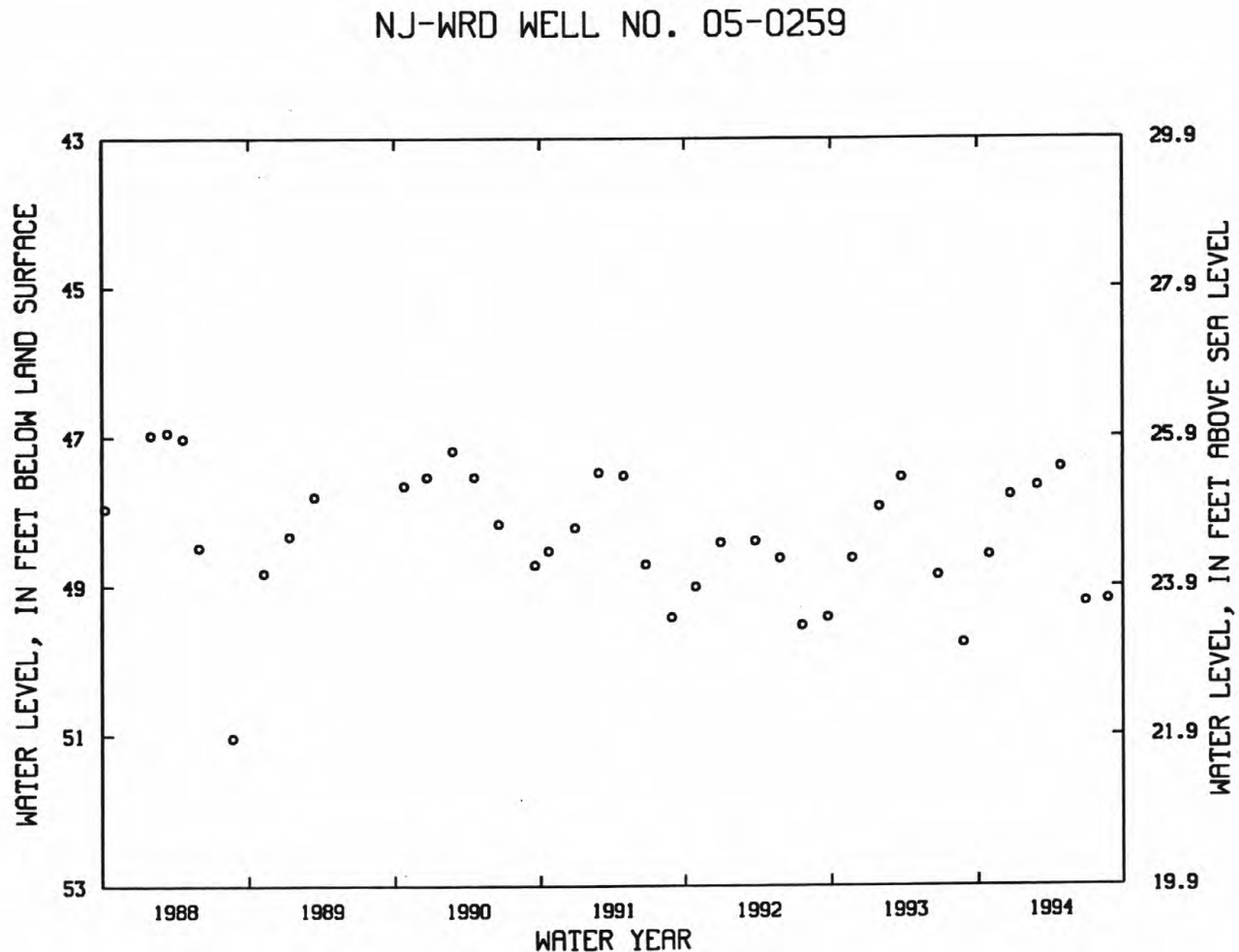
REMARKS.--Water level is occasionally affected by nearby pumping.

PERIOD OF RECORD.--Oct. 1963 to Aug. 1975, Feb. 1977 to current year. Records for 1963 to 1975 and 1987 to 1989 are unpublished and are available in files of the New Jersey District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.42 ft below land surface, Apr. 27, 1973; lowest, 111.96 ft below land surface, July 9, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	48.58	FEB 28	47.66	JUN 30	49.21
DEC 22	47.78	APR 28	47.41	AUG 24	49.18



GROUND-WATER LEVELS

BURLINGTON COUNTY

395525074502505. Local I.D., Medford 5 Obs. NJ-WRD Well Number, 05-0261.

LOCATION.--Lat 39°55'25", long 74°50'25", Hydrologic Unit 02040202, at Medford Wildlife Management Area, Medford Township.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 750 ft, screened 740 to 750 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 72.60 ft above sea level.

Measuring point: Top of recorder shelf, 3.60 ft above land surface.

REMARKS.-- Water level is affected by nearby pumping.

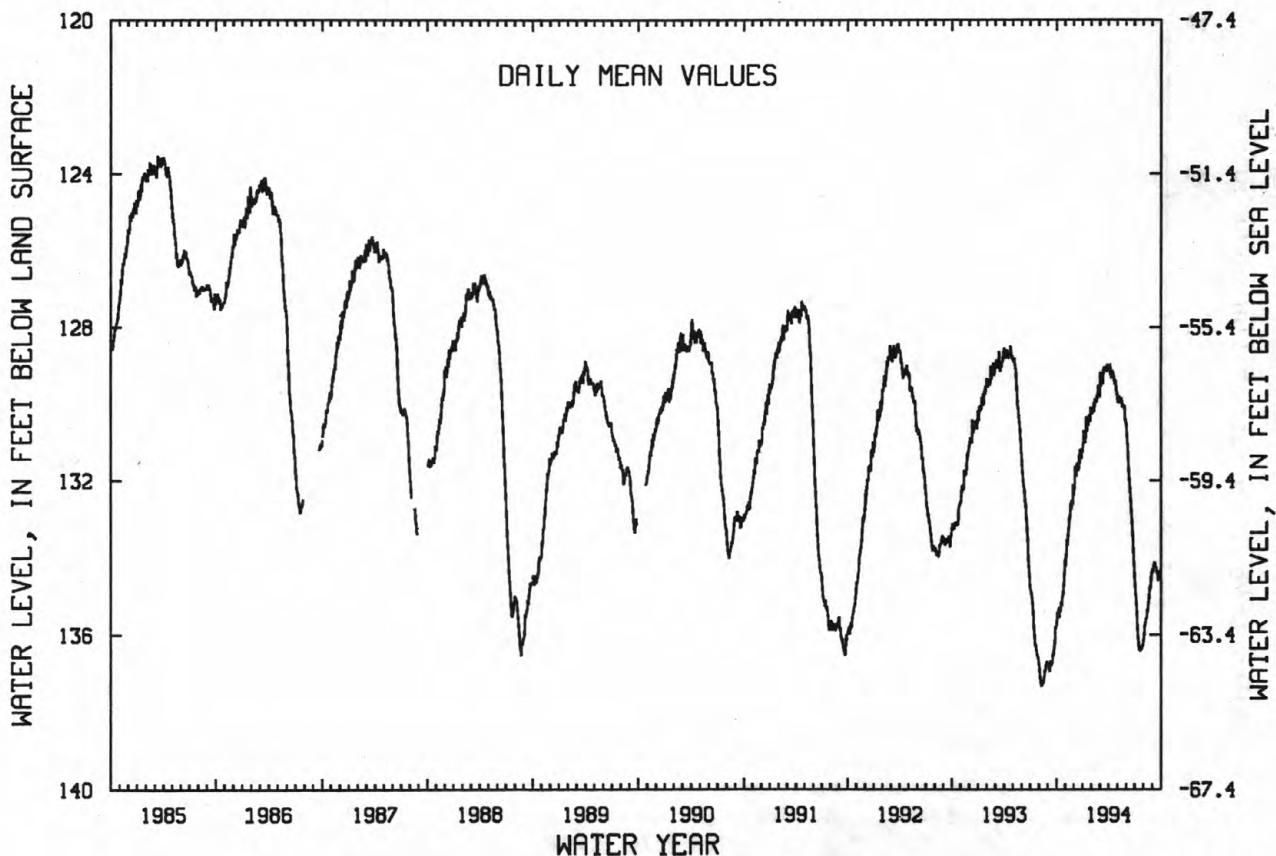
PERIOD OF RECORD.--Jan. 1968 to current year. Records for 1968 to 1977 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 94.46 ft below land surface, Mar. 1, 1968; lowest, 137.33 ft below land surface, Aug. 9-11, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.48	133.66	131.64	130.92	130.10	129.36	129.03	129.84	130.96	134.97	135.75	134.23
10	135.43	133.45	131.72	131.01	130.21	129.20	129.15	129.94	131.61	135.52	135.58	134.17
15	135.38	132.97	131.53	130.48	129.88	129.08	129.22	129.91	132.23	136.11	135.33	134.33
20	135.16	132.57	131.55	130.57	129.83	129.13	129.33	130.07	132.87	136.41	135.09	134.57
25	134.76	132.64	131.18	130.35	129.66	129.03	129.41	130.07	133.55	136.37	134.76	134.51
EOM	134.02	132.34	131.24	130.25	129.82	129.12	129.72	130.49	134.36	136.20	134.36	134.34
MEAN	135.12	133.09	131.61	130.59	129.95	129.22	129.29	130.02	132.31	135.84	135.24	134.34
WTR YR 1994	MEAN 132.24 HIGH 128.89 APR 7 LOW 136.44 JUL 20-21											

NJ-WRD WELL NO.05-0261



BURLINGTON COUNTY

395525074502601. Local I.D., Medford 4 Obs. NJ-WRD Well Number, 05-0262.

LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at Medford Wildlife Management Area, Medford Township.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 1,145 ft, screened 1,125 to 1,145 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 72.32 ft above sea level.

Measuring point: Top of recorder shelf, 2.40 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

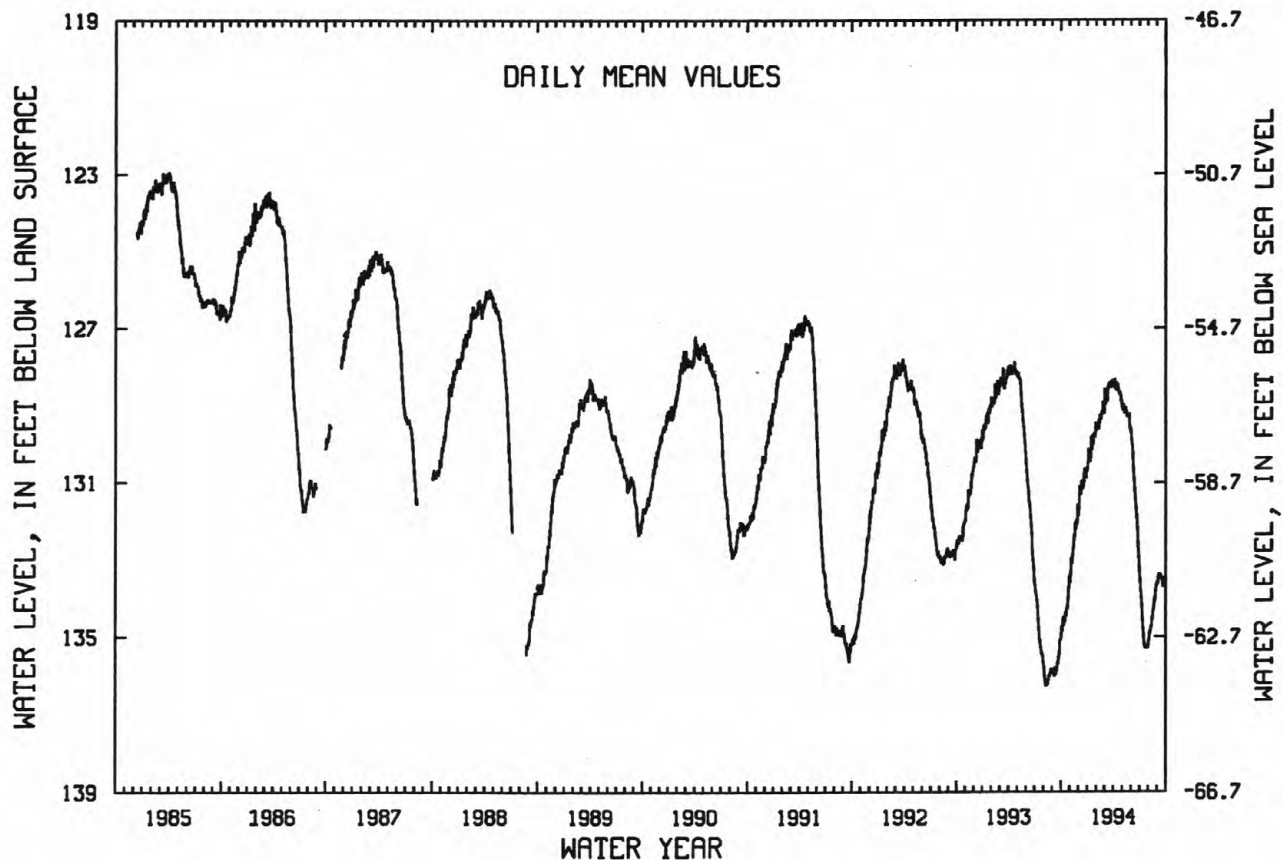
PERIOD OF RECORD.--Jan. 1968 to current year. Records for 1968 to 1975 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 94.24 ft below land surface, Mar. 13, 1968; lowest, 136.31 ft below land surface, Aug. 16, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	134.78	133.06	131.08	130.31	129.47	128.78	128.39	129.00	129.99	133.81	134.88	133.48
10	134.63	132.90	131.13	130.46	129.62	128.62	128.44	129.14	130.56	134.28	134.75	133.39
15	134.59	132.41	130.93	129.91	129.26	128.46	128.50	129.12	131.18	134.83	134.47	133.47
20	134.40	132.02	130.98	130.01	129.22	128.51	128.61	129.27	131.74	135.27	134.28	133.68
25	134.07	132.09	130.62	129.74	129.05	128.40	128.66	129.24	132.32	135.30	134.02	133.61
EOM	133.39	131.82	130.68	129.63	129.21	128.49	128.91	129.63	133.14	135.26	133.61	133.52
MEAN	134.38	132.53	131.04	130.01	129.34	128.61	128.57	129.20	131.23	134.69	134.42	133.51
WTR YR 1994	MEAN 131.48	HIGH 128.22	APR 7	LOW 135.33	JUL 21							

NJ-WRD WELL NO.05-0262



GROUND-WATER LEVELS

BURLINGTON COUNTY

395838074590501. Local I.D., Campbell 1 Obs. NJ-WRD Well Number, 05-0274.

LOCATION.--Lat 39°58'41", long 74°59'05", Hydrologic Unit 02040202, at Denton Vacuum Inc., Church Rd., Moorestown Township.

Owner: Denton Vacuum Inc.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 10 in., depth 268 ft, screened 241 to 262 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 40 ft above sea level from topographic map.

Measuring point: Top of coupling, 1.50 ft above land surface.

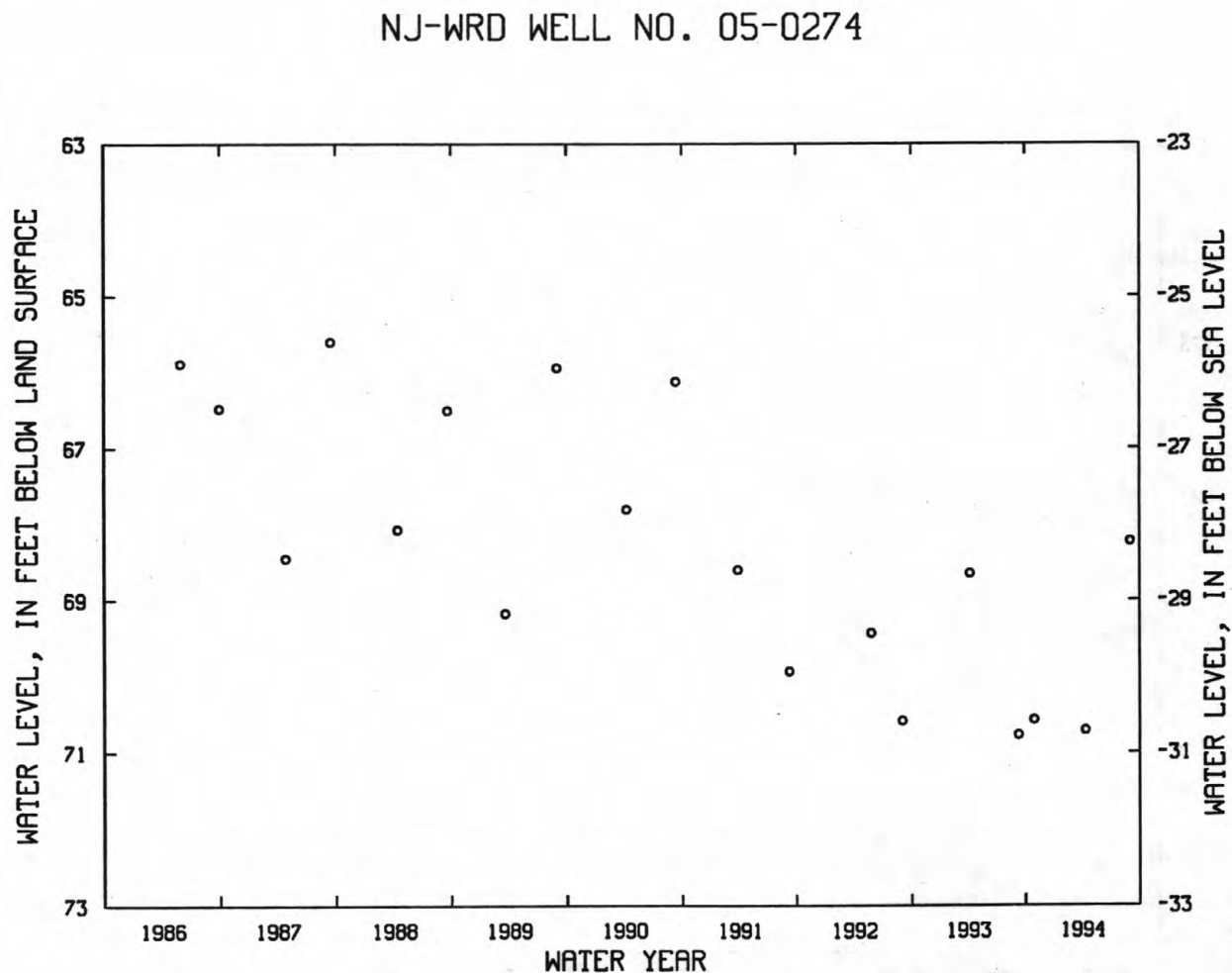
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--April 1972 to April 1984, May 1986 to current year. Records for 1972 to 1984 and 1986 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 50.35 ft below land surface, June 30, 1973; lowest, 70.77 ft below land surface, Sept. 10, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	70.57	APR 12	70.71	SEP 1	68.23



BURLINGTON COUNTY

400010074521601. Local I.D., Willingboro 2 Obs. NJ-WRD Well Number, 05-0645.

LOCATION.--Lat 40°00'10", long 74°52'16", Hydrologic Unit 02040202, near intersection of Bridge Street and Tiffany Lane, Willingboro Township.

Owner: Willingboro Municipal Utilities Authority.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 441 ft, screened 431 to 441 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 40.30 ft above sea level.

Measuring point: Top of recorder shelf, 2.00 ft below land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

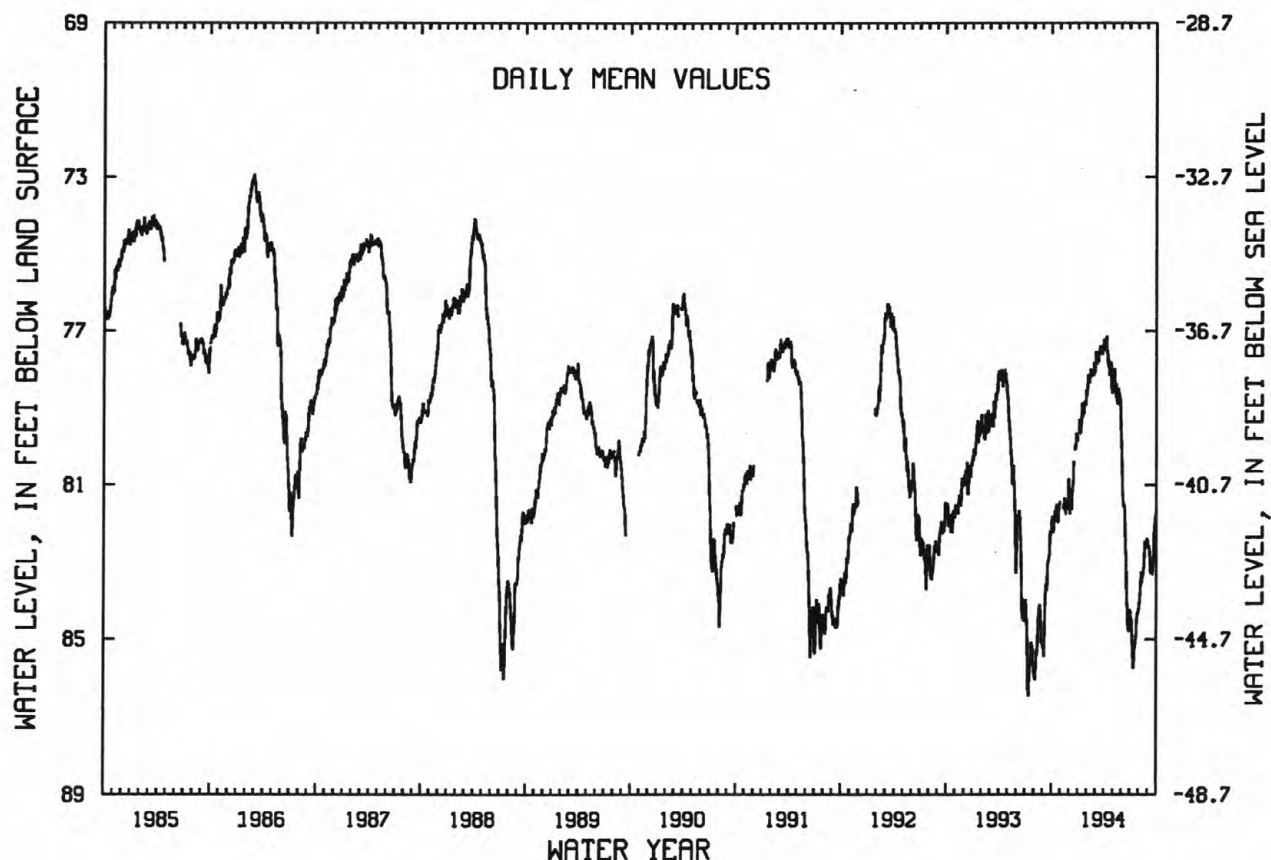
PERIOD OF RECORD.--Mar. 1966 to Sept. 1975, Mar. 1977 to current year. Records for 1966 to 1975 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.79 ft below land surface, June 21, 1967; lowest, 86.60 ft below land surface, July 14, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.19	---	81.09	79.67	78.14	77.74	77.45	78.34	80.96	84.43	83.84	82.59
10	81.95	81.55	81.46	79.58	78.34	77.59	77.14	78.27	81.55	85.15	83.40	83.27
15	81.91	81.34	80.54	79.07	78.11	77.51	77.90	78.47	82.09	85.67	83.25	83.27
20	81.74	81.55	80.08	79.14	78.13	77.44	78.02	78.82	83.71	85.15	82.90	83.03
25	81.56	81.61	79.65	78.86	77.94	77.55	77.84	78.70	84.66	84.49	82.62	82.06
EOM	---	81.32	79.86	78.65	78.10	77.33	78.52	79.55	84.41	84.25	82.45	81.78
MEAN	81.83	81.46	80.65	79.11	78.17	77.60	77.74	78.59	82.56	84.83	83.17	82.69
WTR YR 1994	MEAN 80.70 HIGH 76.95 APR 9 LOW 85.87 JUL 14											

NJ-WRD WELL NO.05-0645



BURLINGTON COUNTY

400213074510801. Local I.D., Willingboro 1 Obs. NJ-WRD Well Number, 05-0063.

LOCATION.--Lat 40°02'13", long 74°51'08", Hydrologic Unit 02040202, on the west side of Rancocas Rd. about 2 mi north of Rancocas, Burlington Township.

Owner: Willingboro Municipal Utilities Authority.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 294 ft, screened 284 to 294 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 45.45 ft above sea level.

Measuring point: Top of well shelter shelf, 0.60 ft above land surface.

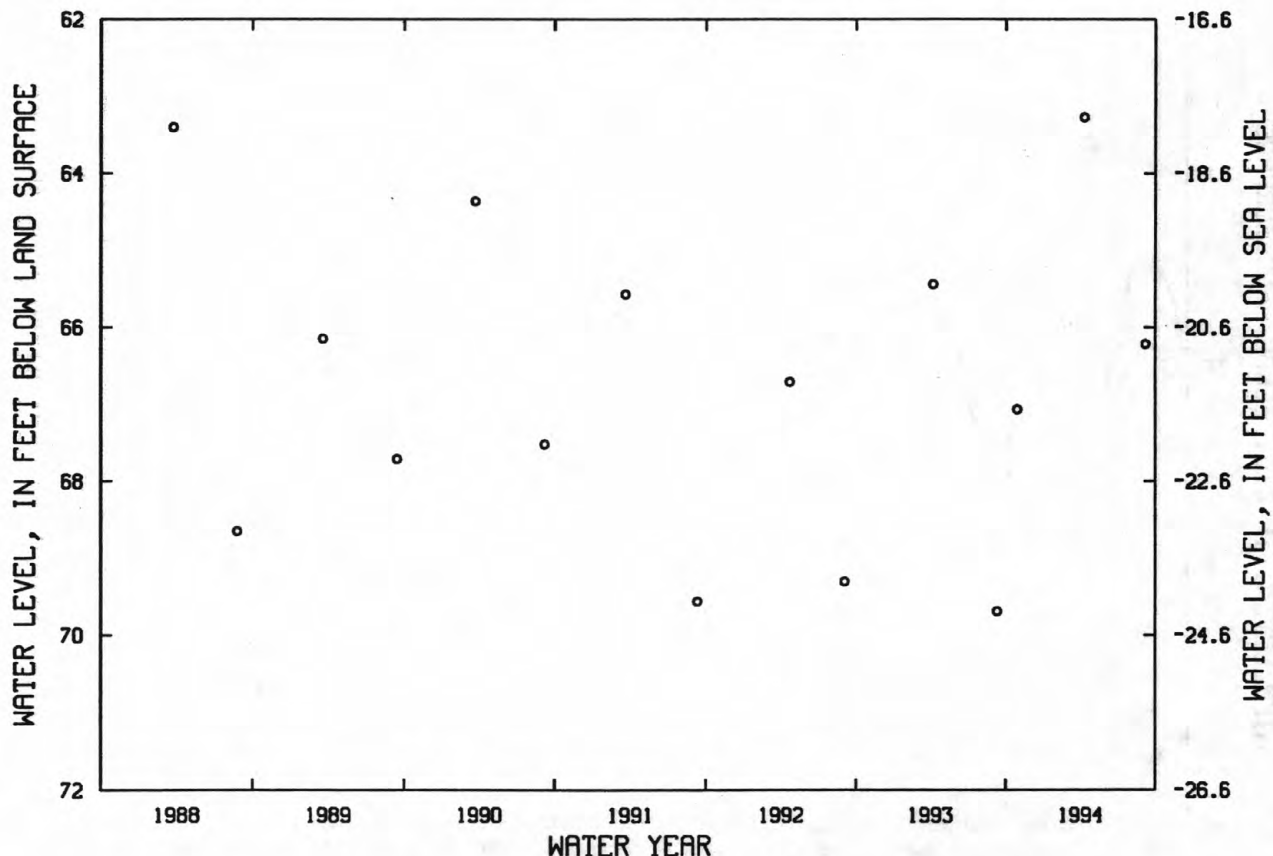
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Mar. 1966 to current year. Records for 1966 to 1975 and 1988 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.25 ft below land surface, Mar. 19, 1966; lowest, 69.69 ft below land surface, Sept. 10, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	67.07	APR 11	63.27	SEP 7	66.22



BURLINGTON COUNTY

400242074422301. Local I.D., Rhodia 1 Obs. NJ-WRD Well Number, 05-0440.

LOCATION.--Lat 40°02'42", long 74°42'23", Hydrologic Unit 02040201, at 1 Devi Dr. in Saddle Ridge Estates, near Jobstown, Springfield Township.

Owner: Toll Brothers Corp.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 615 ft, screened 603 to 613 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 71.65 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.22 ft above land surface.

PERIOD OF RECORD.--Dec. 1968 to current year. Records for 1968 to 1978 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 86.55 ft below land surface, Dec. 31, 1969; lowest, 108.81 ft below land surface, between July 18 and Sept. 30, 1991.

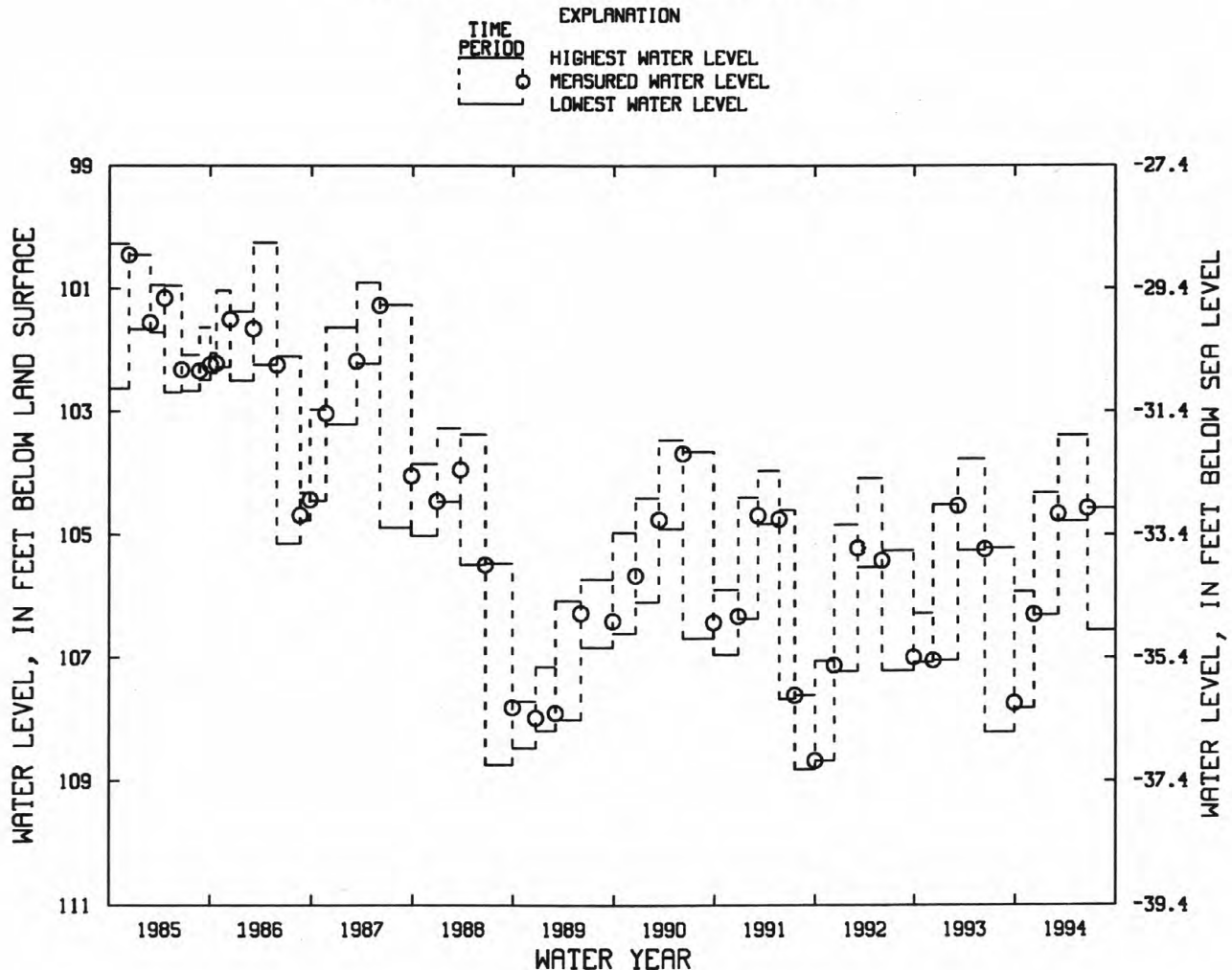
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 9, 1993	105.92	107.82	DEC. 9, 1993	106.29
DEC. 9, 1993 TO MAR. 7, 1994	104.32	106.30	MAR. 7, 1994	104.66
MAR. 7, 1994 TO JUNE 21, 1994	103.39	104.78	JUNE 21, 1994	104.57
JUNE 21, 1994 TO OCT. 3, 1994	104.57	106.55	OCT. 3, 1994	105.77

NJ-WRD WELL NO. 05-0440



CAMDEN COUNTY

394215074561701. Local I.D., New Brooklyn Park 1 Obs. NJ-WRD Well Number, 07-0476.

LOCATION.--Lat 39°42'15", long 74°56'17", Hydrologic Unit 02040302, on eastern shore of New Brooklyn Lake about 900 ft upstream of Rt. 536, Winslow Township.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 1,505 ft, screened 1,485 to 1,495 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.13 ft above sea level.

Measuring point: Top of coupling, 1.75 ft above land surface.

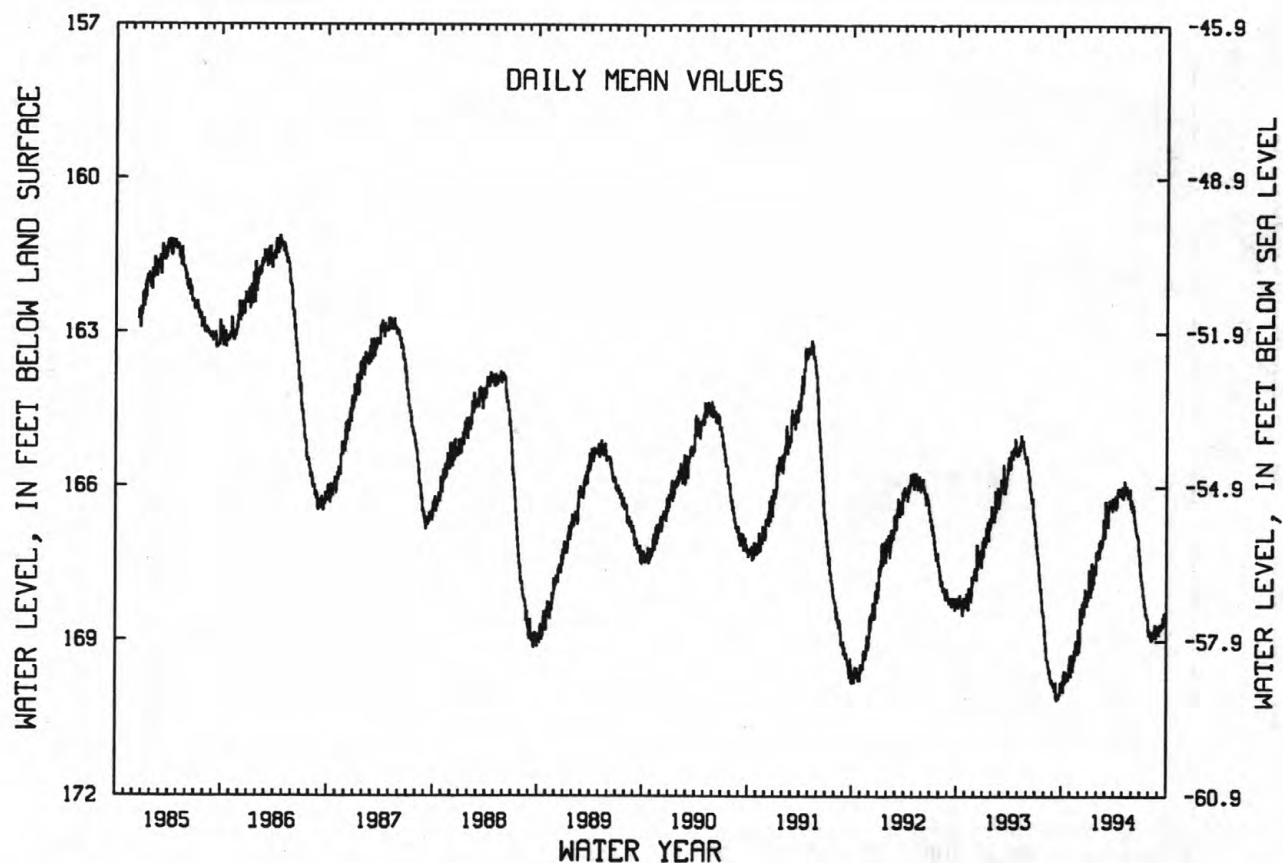
PERIOD OF RECORD.--Aug. 1960 to current year. Records for 1960 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 117.24 ft below land surface, Nov. 16, 1960; lowest, 170.18 ft below land surface, Sept. 13, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	169.84	169.32	168.36	167.90	167.22	166.52	166.26	166.00	166.49	167.82	168.80	168.78
10	169.72	169.47	168.46	168.15	167.38	166.45	166.25	166.06	166.60	167.98	168.99	168.73
15	169.80	169.18	168.23	167.67	167.07	166.31	166.14	166.06	166.80	168.18	168.83	168.70
20	169.72	168.99	168.35	167.88	167.08	166.39	166.11	166.20	166.97	168.44	168.85	168.73
25	169.66	169.25	168.03	167.58	166.78	166.30	166.02	166.08	167.03	168.55	168.92	168.54
EOM	169.28	169.10	168.21	167.40	167.00	166.40	166.09	166.37	167.40	168.88	168.76	168.52
MEAN	169.70	169.28	168.41	167.74	167.12	166.46	166.18	166.12	166.79	168.23	168.86	168.66
WTR YR 1994	MEAN 167.80 HIGH 165.82 MAY 8 LOW 170.00 OCT 1,6											

NJ-WRD WELL NO.07-0476



CAMDEN COUNTY

394215074561702. Local I.D., New Brooklyn Park 2 Obs. NJ-WRD Well Number, 07-0477.

LOCATION.--Lat 39°42'15", long 74°56'17", Hydrologic Unit 02040302, on eastern shore of New Brooklyn Lake about 900 ft upstream of Rt. 536, Winslow Township.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 849 ft, screened 829 to 839 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.13 ft above sea level.

Measuring point: Top of recorder shelf, 3.30 ft above land surface.

REMARKS.--Water-quality data for 1994 are available elsewhere in this report.

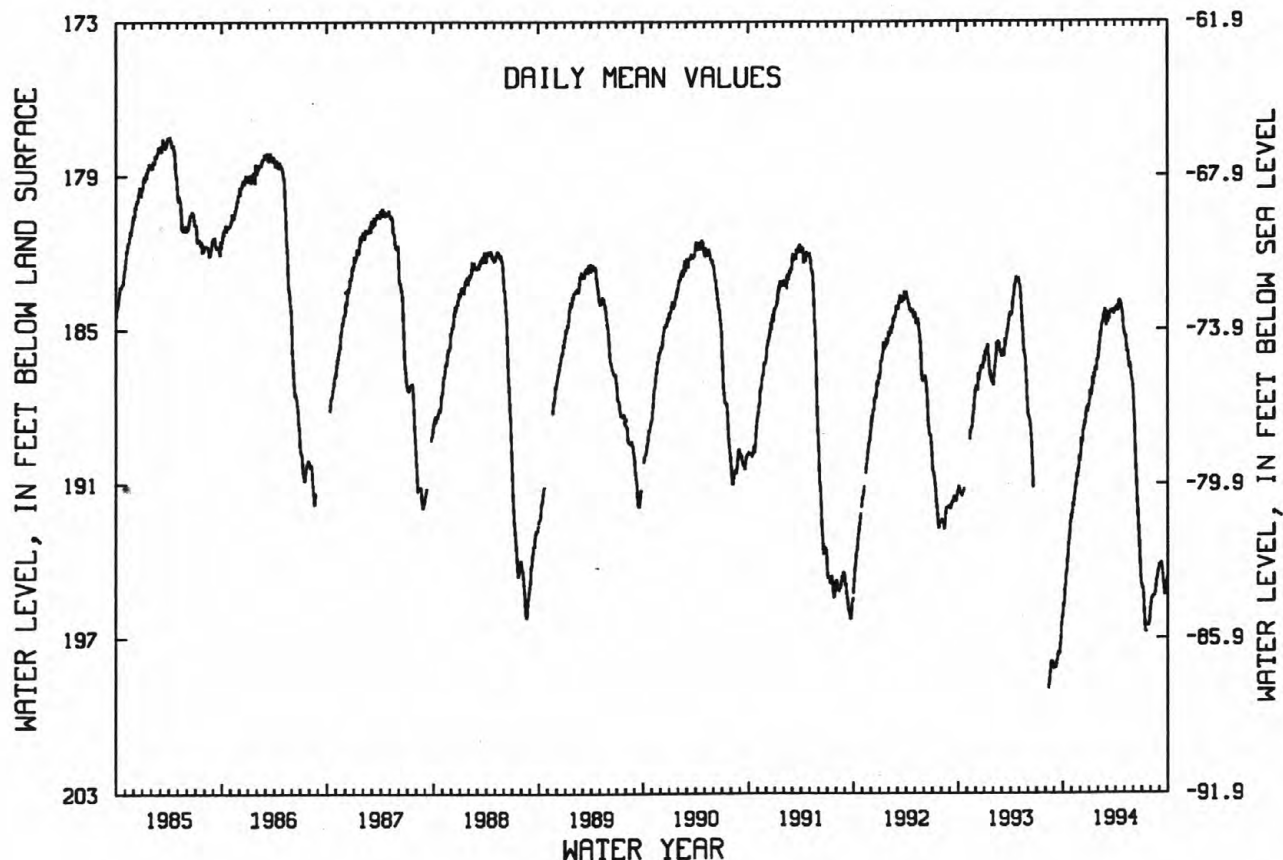
PERIOD OF RECORD.--May 1961 to current year. Records for 1961 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 127.48 ft below land surface, May 5, 1961; lowest, 199.02 ft below land surface, Aug. 12, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	195.63	191.84	189.23	187.59	185.64	184.52	184.18	185.14	187.90	195.11	195.48	194.15
10	194.98	191.65	189.12	187.56	185.33	184.38	184.15	185.55	189.40	195.52	195.37	194.14
15	194.41	191.08	188.57	186.98	184.77	184.29	183.95	185.86	190.93	196.64	195.32	194.72
20	193.66	190.58	188.45	186.87	184.49	184.34	183.98	186.46	192.30	---	195.05	195.31
25	192.96	190.43	188.00	186.50	184.44	184.28	184.29	186.61	193.66	196.52	194.67	195.05
EOM	192.17	190.10	188.00	186.18	184.83	184.31	184.95	187.01	194.86	195.99	194.26	194.64
MEAN	194.18	191.13	188.75	186.99	185.02	184.42	184.22	186.00	190.98	195.97	195.12	194.63
WTR YR 1994	MEAN 189.78 HIGH 183.79 APR 16 LOW 196.82 JUL 17											

NJ-WRD WELL NO.07-0477



CAMDEN COUNTY

394215074561703. Local I.D., New Brooklyn Park 3 Obs. NJ-WRD Well Number, 07-0478.

LOCATION.--Lat 39°42'15", long 74°56'17", Hydrologic Unit 02040302, on eastern shore of New Brooklyn Lake about 900 ft upstream of Rt. 536, Winslow Township.

Owner: U.S. Geological Survey.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 530 ft, screened 520 to 530 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.45 ft above sea level.

Measuring point: Top of coupling, 2.10 ft above land surface.

REMARKS.--Water level is affected by regional cone of depression. Water-quality data for 1994 are available elsewhere in this report.

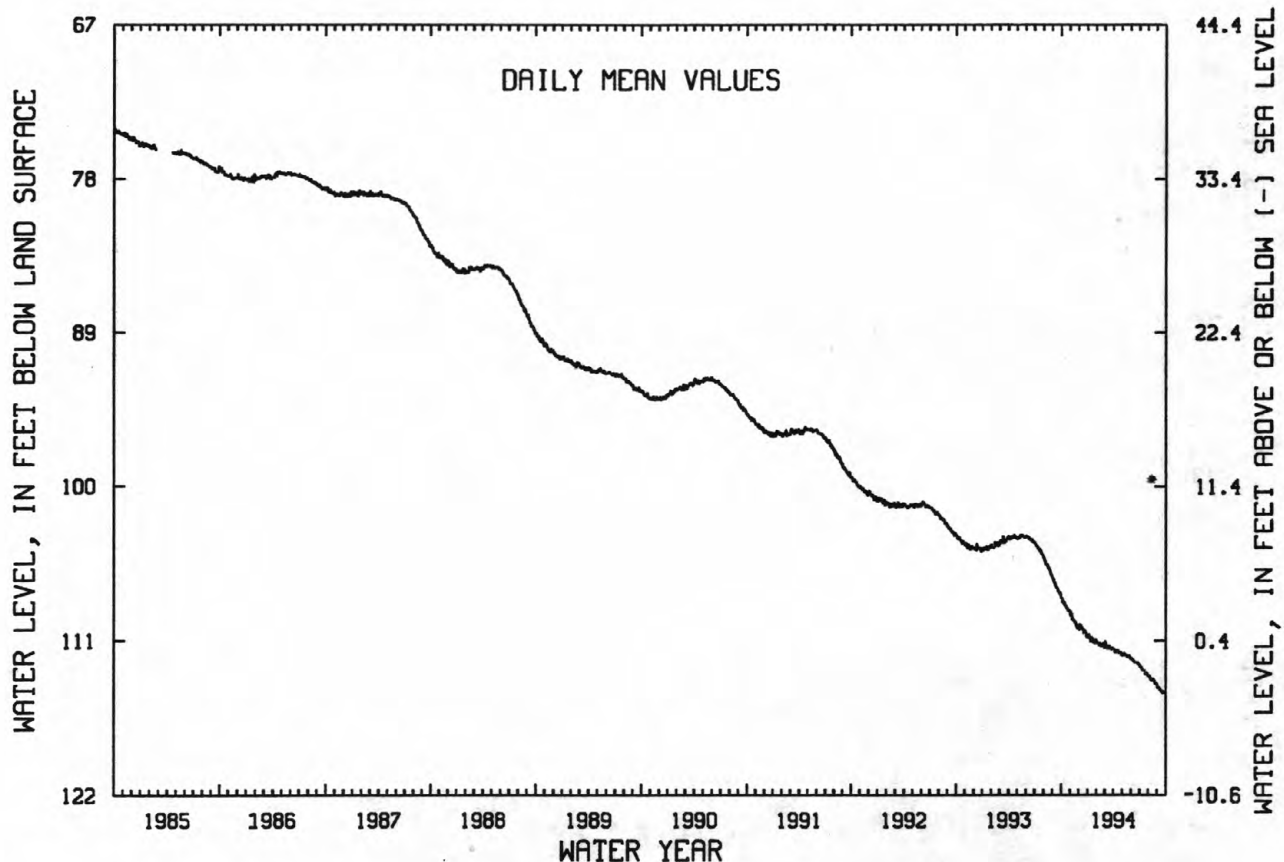
PERIOD OF RECORD.--May 1961 to current year. Records for 1961 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 56.12 ft below land surface, Aug. 14, 1962; lowest, 114.85 ft below land surface, Sept. 30, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	108.05	109.16	109.84	110.60	111.16	111.16	111.67	111.97	112.35	112.89	113.51	114.33
10	108.23	109.48	110.11	111.01	111.30	111.39	111.79	111.93	112.41	112.98	113.75	114.45
15	108.50	109.53	110.16	110.79	111.27	111.39	111.69	112.04	112.52	113.11	113.69	114.59
20	108.69	109.61	110.43	111.11	111.41	111.49	111.76	112.13	112.56	113.12	113.86	114.73
25	108.83	110.01	110.43	111.06	111.18	111.53	111.81	112.10	112.54	113.29	114.04	114.67
EOM	108.84	110.04	110.75	111.03	111.49	111.63	111.98	112.29	112.70	113.53	114.12	114.81
MEAN	108.47	109.60	110.28	110.91	111.26	111.45	111.77	112.05	112.48	113.11	113.79	114.54
WTR YR 1994	MEAN 111.64	HIGH 107.87	OCT 1	LOW 114.85	SEP 30							

NJ-WRD WELL NO.07-0478



CAMDEN COUNTY

394440074593101. Local I.D., Winslow 5 Obs. NJ-WRD Well Number, 07-0503.

LOCATION.--Lat 39°44'40", long 74°59'31", Hydrologic Unit 02040302, about 1,000 ft east of intersection of Cross Keys-Berlin Rd. and Erial-Williamstown Rd., Winslow Township.

Owner: Winslow Water Company.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 76 ft, screened 71 to 76 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 173.26 ft above sea level.

Measuring point: Top of recorder shelf, 1.00 ft above land surface.

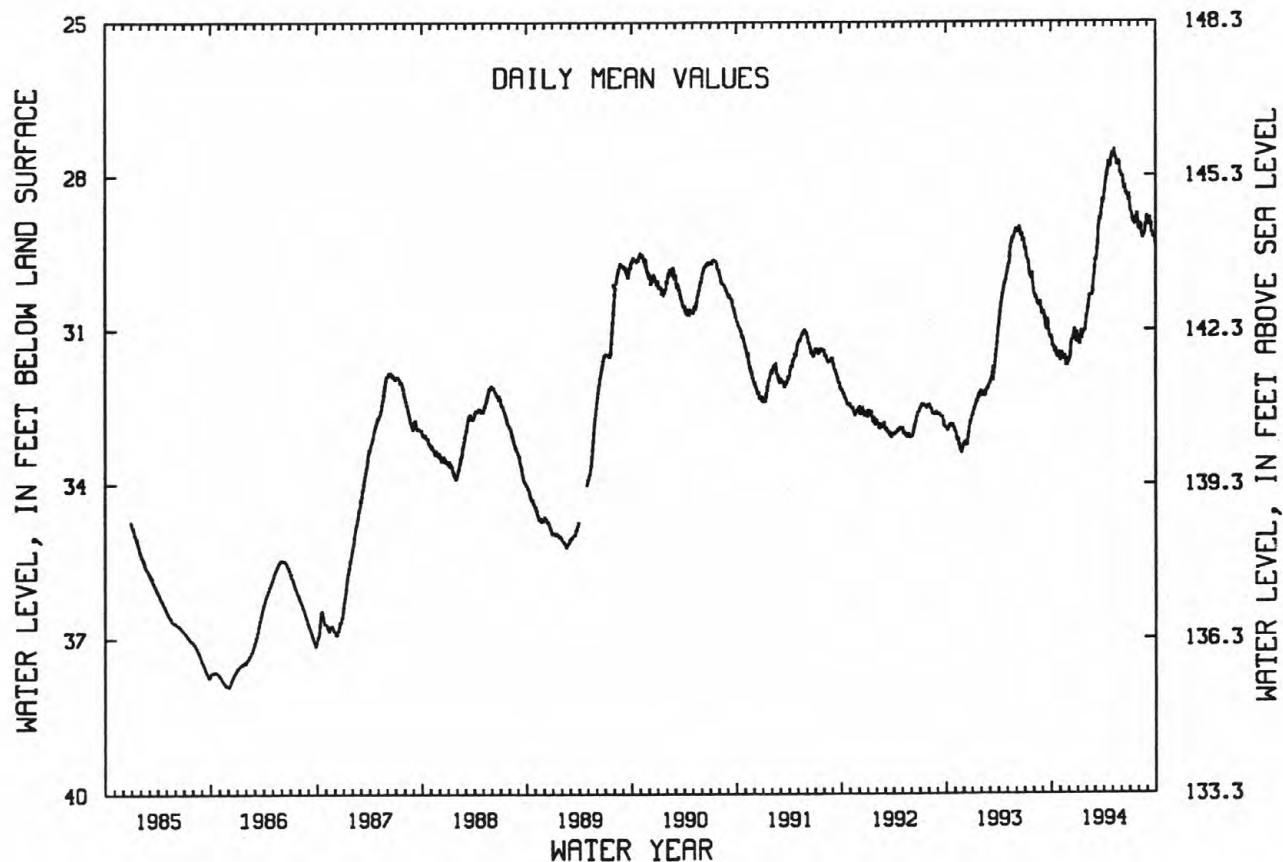
PERIOD OF RECORD.--Dec. 1972 to current year. Records for 1972 to 1980 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.78 ft below land surface, May 20-21, 1973; lowest, 38.35 ft below land surface, between June 3 and Oct. 6, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.27	31.48	31.53	31.27	30.58	29.66	28.31	27.62	28.03	28.71	29.03	28.92
10	31.34	31.49	31.22	31.27	30.45	29.40	28.04	27.63	28.22	28.78	29.01	28.84
15	31.42	31.57	31.13	31.10	30.31	28.97	27.98	27.67	28.19	28.81	29.20	29.06
20	31.49	31.62	30.98	31.07	30.31	28.88	27.76	27.76	28.37	28.94	29.18	29.16
25	31.49	31.67	31.11	31.00	30.04	28.65	27.84	27.71	28.45	28.79	28.99	29.16
EOM	31.44	31.63	31.13	30.78	29.86	28.50	27.61	27.94	28.42	29.02	28.79	29.35
MEAN	31.37	31.56	31.23	31.07	30.34	29.07	27.97	27.71	28.25	28.80	29.04	29.05
WTR YR 1994	MEAN 29.62 HIGH 27.41 MAY 8 LOW 31.71 NOV 21, 26-27											

NJ-WRD WELL NO.07-0503



CAMDEN COUNTY

394922074563301. Local I.D., Elm Tree 2 Obs. NJ-WRD Well Number, 07-0412.

LOCATION.--Lat 39°49'22", long 74°56'30", Hydrologic Unit 02040202, about 200 ft northeast of Thomas Rd. and about 2 mi northwest of Berlin, Voorhees Township.

Owner: New Jersey - American Water Company.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 1,092 ft, screened 1,082 to 1,092 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 148.68 ft above sea level.

Measuring point: Top of recorder shelf, 2.80 ft above land surface.

REMARKS.--Well was originally screened 1,217 to 1,227 ft; rehabilitated Aug. 1969.

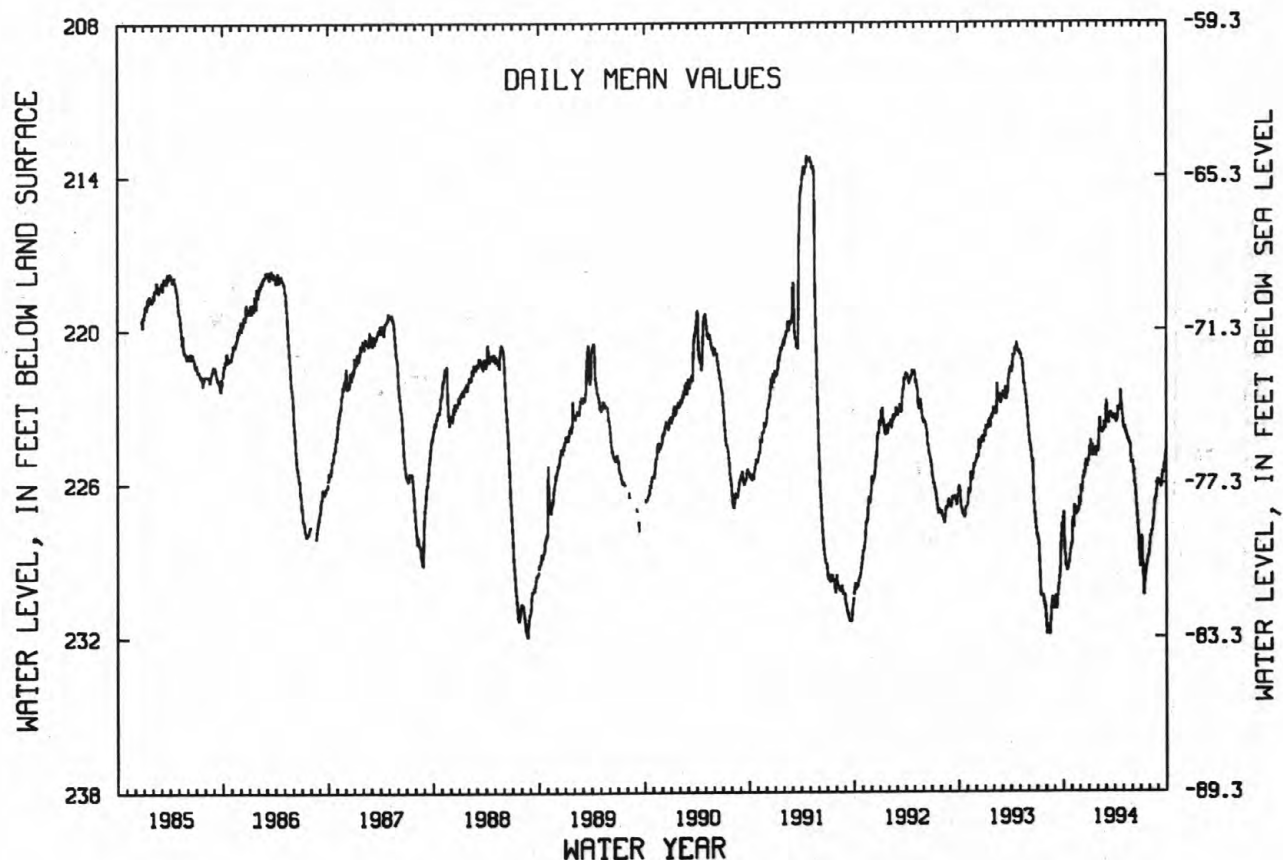
PERIOD OF RECORD.--Mar. 1964 to current year. Records for 1964 to 1978 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 142.28 ft below land surface, Mar. 3, 1964; lowest, 232.01 ft below land surface, Aug. 22, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	227.89	227.34	226.10	224.84	224.37	222.92	223.39	223.76	225.25	228.23	228.05	225.96
10	229.09	226.86	225.98	224.84	223.89	223.32	223.44	223.93	225.80	229.17	227.87	226.04
15	229.42	227.09	225.54	224.68	223.92	223.30	223.15	224.13	226.40	230.04	227.45	225.84
20	229.26	226.94	225.49	224.80	223.98	223.36	223.18	224.35	227.30	229.43	226.85	225.63
25	228.84	227.10	225.10	224.80	223.79	223.39	222.81	224.46	228.15	229.02	226.54	225.26
EOM	228.33	226.85	225.16	224.80	223.89	223.51	223.36	225.23	229.16	228.77	225.84	224.97
MEAN	228.73	227.23	225.73	224.76	224.03	223.39	223.19	224.22	226.76	229.11	227.28	225.66
WTR YR 1994	MEAN 225.86 HIGH 222.12 APR 22 LOW 230.47 JUL 14											

NJ-WRD WELL NO.07-0412



CAMDEN COUNTY

394922074563302. Local I.D., Elm Tree 3 Obs. NJ-WRD Well Number, 07-0413.

LOCATION.--Lat 39°49'22", long 74°56'30", Hydrologic Unit 02040202, about 200 ft northeast of Thomas Rd. and about 2 mi northwest of Berlin, Voorhees Township.

Owner: New Jersey - American Water Company.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 717 ft, screened 706 to 717 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 148.73 ft above sea level.

Measuring point: Top of recorder shelf, 0.60 ft above land surface.

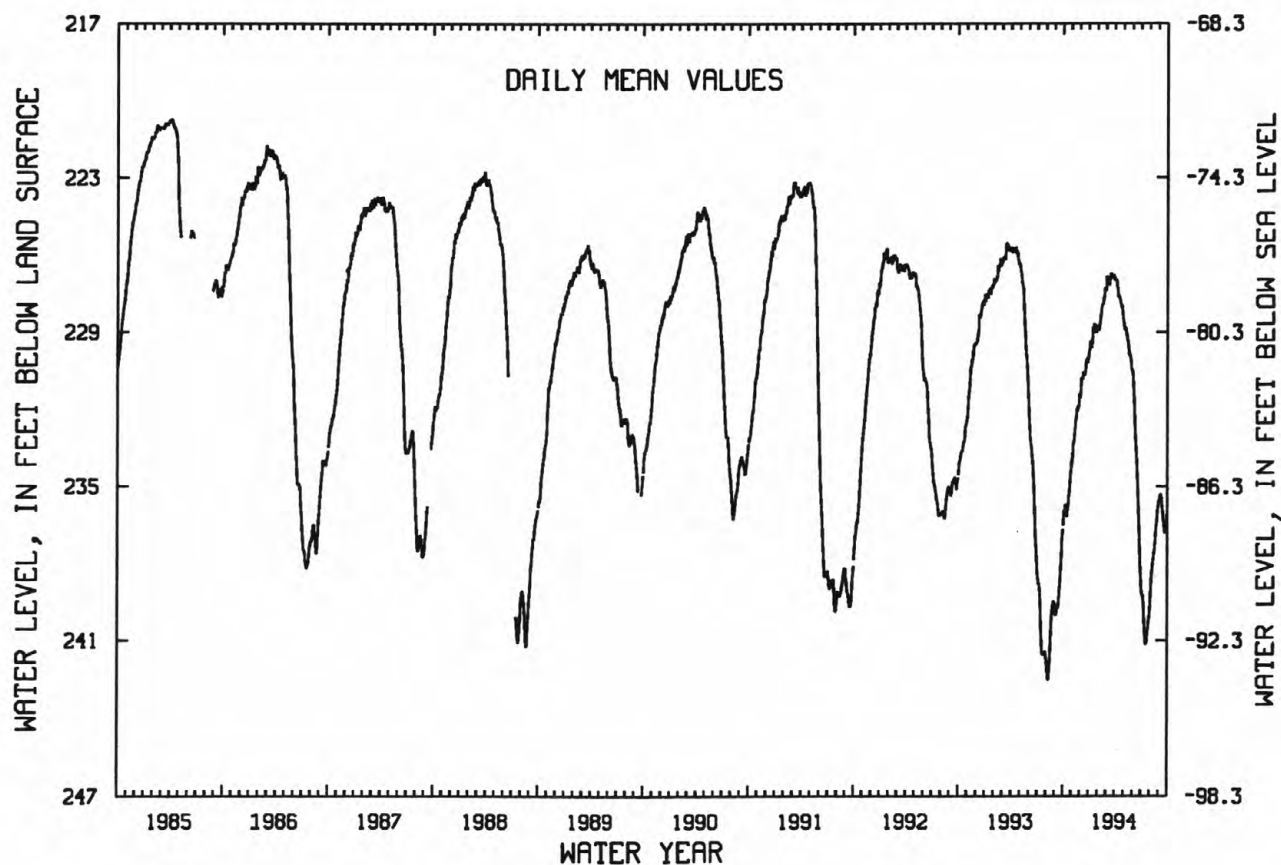
PERIOD OF RECORD.--Dec. 1963 to current year. Records for 1963 to 1977 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 174.21 ft below land surface, Feb. 6, 1964; lowest, 242.54 ft below land surface, Aug. 8-9, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	235.92	233.42	230.77	229.52	228.73	226.98	226.99	228.84	231.27	239.24	238.62	235.38
10	235.90	233.01	230.68	229.60	228.48	226.93	227.27	229.01	232.90	239.74	237.96	235.53
15	236.15	232.40	230.52	228.87	227.95	226.83	227.68	229.32	233.97	240.80	237.48	236.16
20	235.59	231.92	230.42	228.86	227.73	226.85	227.84	229.83	235.41	241.07	236.97	236.77
25	234.92	231.92	230.03	228.83	227.38	226.80	227.98	230.02	236.98	240.55	236.31	236.66
EOM	234.02	231.53	229.93	228.89	227.42	226.99	228.51	230.51	238.60	239.90	235.65	236.07
MEAN	235.54	232.57	230.54	229.10	228.09	226.94	227.62	229.49	234.30	240.16	237.40	236.05
WTR YR 1994	MEAN 232.35 HIGH 226.66 MAR 18 LOW 241.21 JUL 18											

NJ-WRD WELL NO.07-0413



CAMDEN COUNTY

395229074571201. Local I.D., Hutton Hill 1 Obs. NJ-WRD Well Number, 07-0117.

LOCATION.--Lat 39°52'29", Long 74°57'12", Hydrologic Unit 02040202, about 800 ft northeast of intersection of Kresson Rd. and Cropwell Rd., Cherry Hill Township.

Owner: New Jersey - American Water Company.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 562 ft, screened 552 to 562 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 157.61 ft above sea level.

Measuring point: Top of recorder shelf, 1.60 ft above land surface.

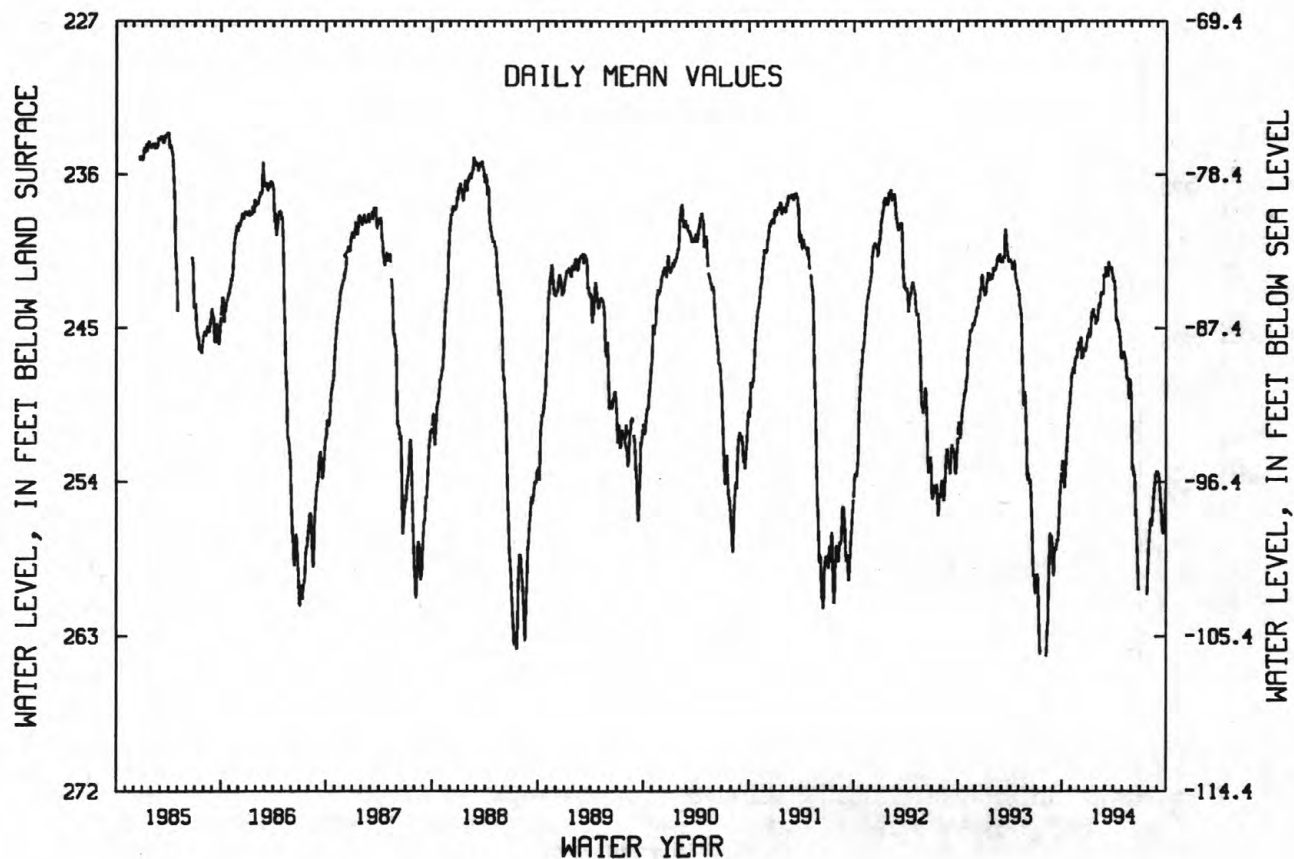
PERIOD OF RECORD.--Aug. 1967 to current year. Records for 1967 to 1978 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 200.77 ft below land surface, Mar. 23, 1968; lowest, 264.20 ft below land surface, Aug. 5, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	252.94	247.66	245.59	245.30	243.91	241.59	242.59	246.43	252.08	---	256.89	253.57
10	254.34	247.44	246.79	245.04	243.81	241.67	244.49	246.64	253.30	---	256.29	254.57
15	252.78	246.98	246.17	244.17	242.92	241.09	244.73	247.35	254.12	---	255.99	256.04
20	251.27	246.64	246.37	244.21	242.98	241.44	245.07	247.97	257.16	---	254.64	257.04
25	249.84	246.17	245.91	244.40	241.86	241.50	245.86	249.12	259.58	---	253.59	256.00
EOM	248.61	246.17	245.38	244.61	241.99	242.21	246.74	248.32	---	258.44	253.42	254.32
MEAN	251.86	247.04	246.11	244.62	243.18	241.66	244.60	247.47	254.55	---	255.38	255.23
WTR YR 1994	MEAN 248.49	HIGH 240.91	MAR 14	LOW 260.63	JUL 26							

NJ-WRD WELL NO.07-0117



CAMDEN COUNTY

395229074571202. Local I.D., Hutton Hill 2 Obs. NJ-WRD Well Number, 07-0118.

LOCATION.--Lat 39°52'29", long 74°57'12", Hydrologic Unit 02040202, about 800 ft northeast of the intersection of Kresson Rd. and Cropwell Rd., Cherry Hill Township.

Owner: New Jersey - American Water Company.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 147 ft, screened 137 to 147 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 157.53 ft above sea level.

Measuring point: Top of coupling, 1.66 ft above land surface.

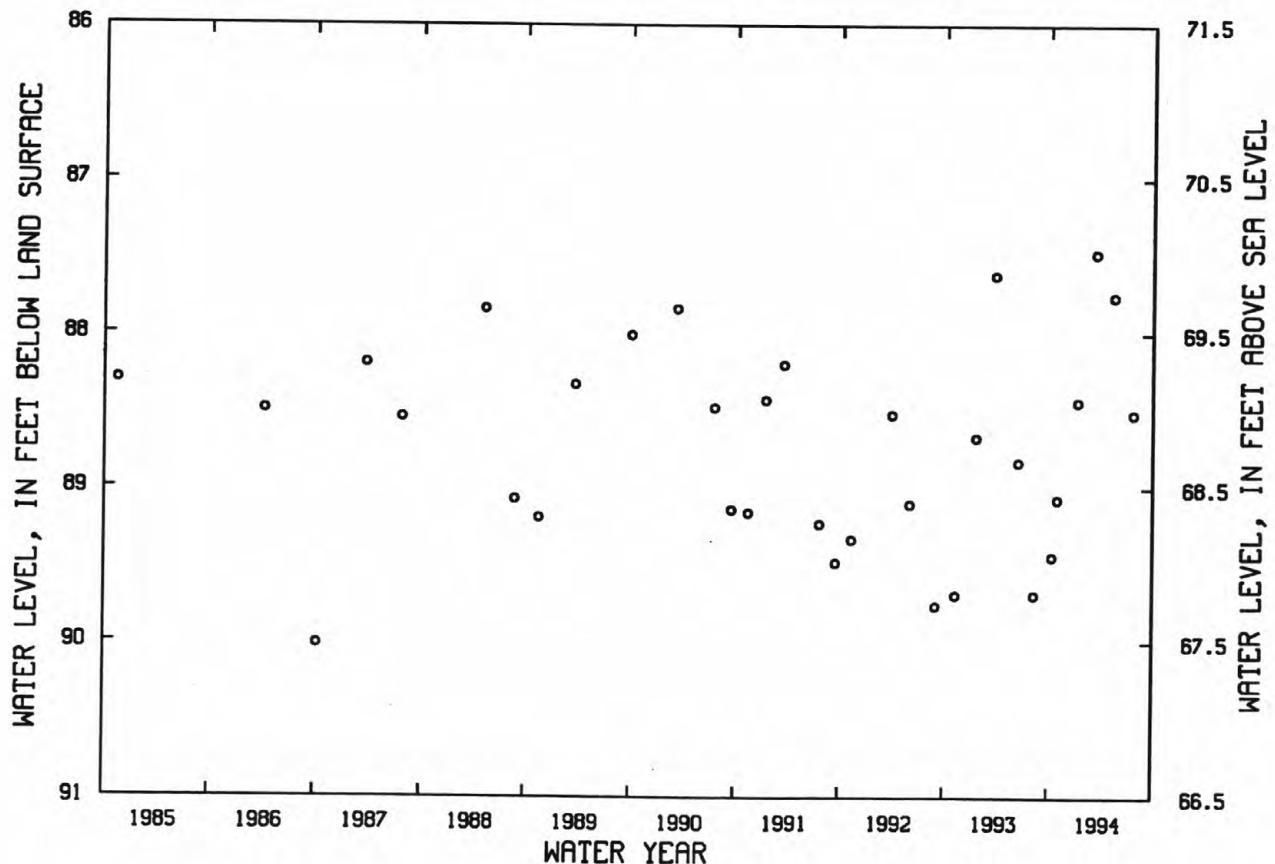
PERIOD OF RECORD.--Sept. 1967 to current year. Records for 1967 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.87 ft below land surface, Apr. 27, 1973; lowest, 90.01 ft below land surface, Oct. 9, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	89.44	JAN 11	88.44	MAY 18	87.76
NOV 1	89.07	MAR 15	87.48	JUL 25	88.52

NJ-WRD WELL NO. 07-0118



GROUND-WATER LEVELS

CAMDEN COUNTY

395246075043301. Local I.D., Egbert Obs. NJ-WRD Well Number, 07-0283.

LOCATION.--Lat 39°52'46", long 75°04'34", Hydrologic Unit 02040202, in Camden County Park, about 400 ft south of the corner of Dallas and Sylvan Avenues, Haddon Heights Borough.

Owner: New Jersey - American Water Company.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 455 ft, screened 445 to 455 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 23.66 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 2.78 ft above land surface.

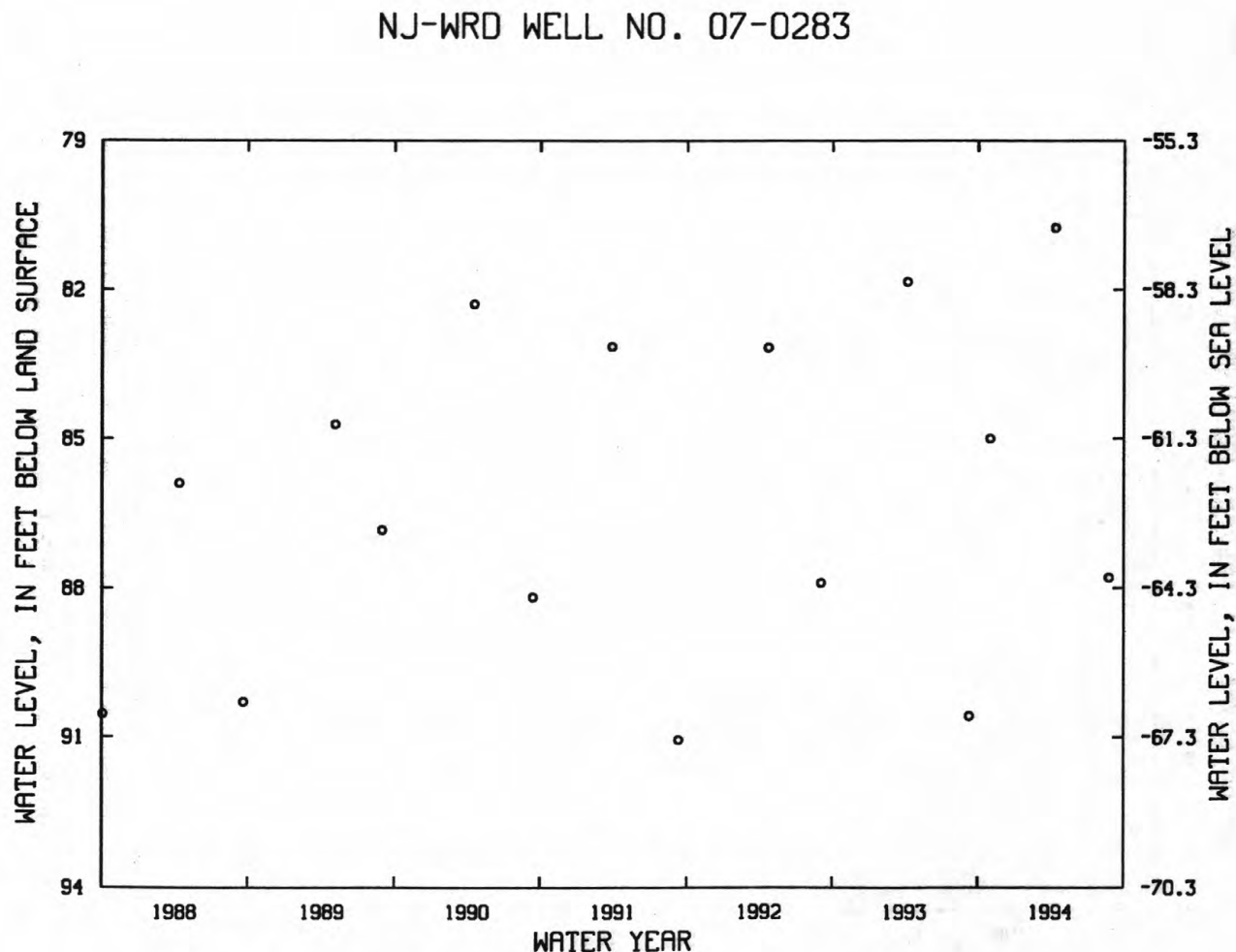
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--June 1963 to current year. Records for 1963 to 1982 and 1988 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.93 ft below land surface, April 8, 1964; lowest, 130.41 ft below land surface, between July 12 and Sept. 29, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1	85.00	APR 12	80.75	AUG 25	87.79



CAPE MAY COUNTY

385607074555201. Local I.D., West Cape May 1 Obs. NJ-WRD Well Number, 09-0150.

LOCATION.--Lat 38°56'07", long 74°55'56", Hydrologic Unit 02040302, on the north side of Sunset Blvd., West Cape May Borough.

Owner: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 293 ft, screened 283 to 293 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 6.60 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.88 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping. Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--July 1957 to current year. Records for 1957 to 1982 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.38 ft below land surface, between Jan. 10 and Apr. 10, 1984; lowest, 41.30 ft below land surface, Sept. 3, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 30, 1993 TO NOV. 5, 1993	23.16	31.88	NOV. 5, 1993	23.41
NOV. 5, 1993 TO MAR. 25, 1994	16.62	24.09	MAR. 25, 1994	17.97
MAR. 25, 1994 TO JUNE 29, 1994	14.98	25.58	JUNE 29, 1994	24.77
JUNE 29, 1994 TO SEPT. 8, 1994	24.36	36.89	SEPT. 8, 1994	34.14
SEPT. 8, 1994 TO SEPT. 29, 1994	28.69	34.93	SEPT. 29, 1994	29.18

NJ-WRD WELL NO. 09-0150

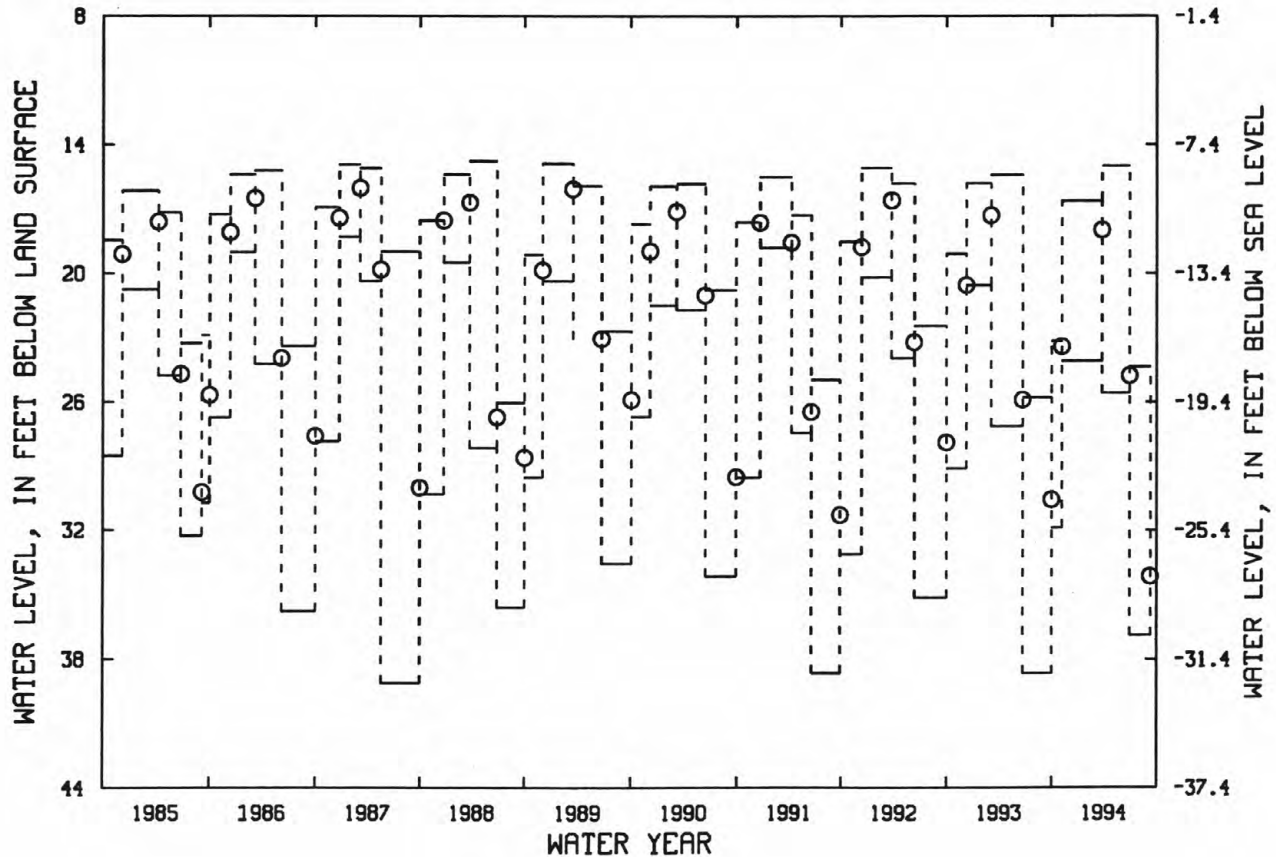
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

— LOWEST WATER LEVEL



CAPE MAY COUNTY

385616074580001. Local I.D., Traffic Circle Obs. NJ-WRD Well Number, 09-0020.

LOCATION.--Lat 38°56'16", long 74°58'00", Hydrologic Unit 02040206, at the traffic circle at the intersection of Central, Cape, and Ocean Avenues, Cape May Point, Cape May Point Borough.

Owner: U.S. Geological Survey.

AQUIFER.--Holly Beach water-bearing zone.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 20 ft, screened 15 to 20 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 9.12 ft above sea level.

Measuring point: Top of shelter shelf, 3.00 ft above land surface.

REMARKS.--Water level is affected by the stage of Lake Lilly.

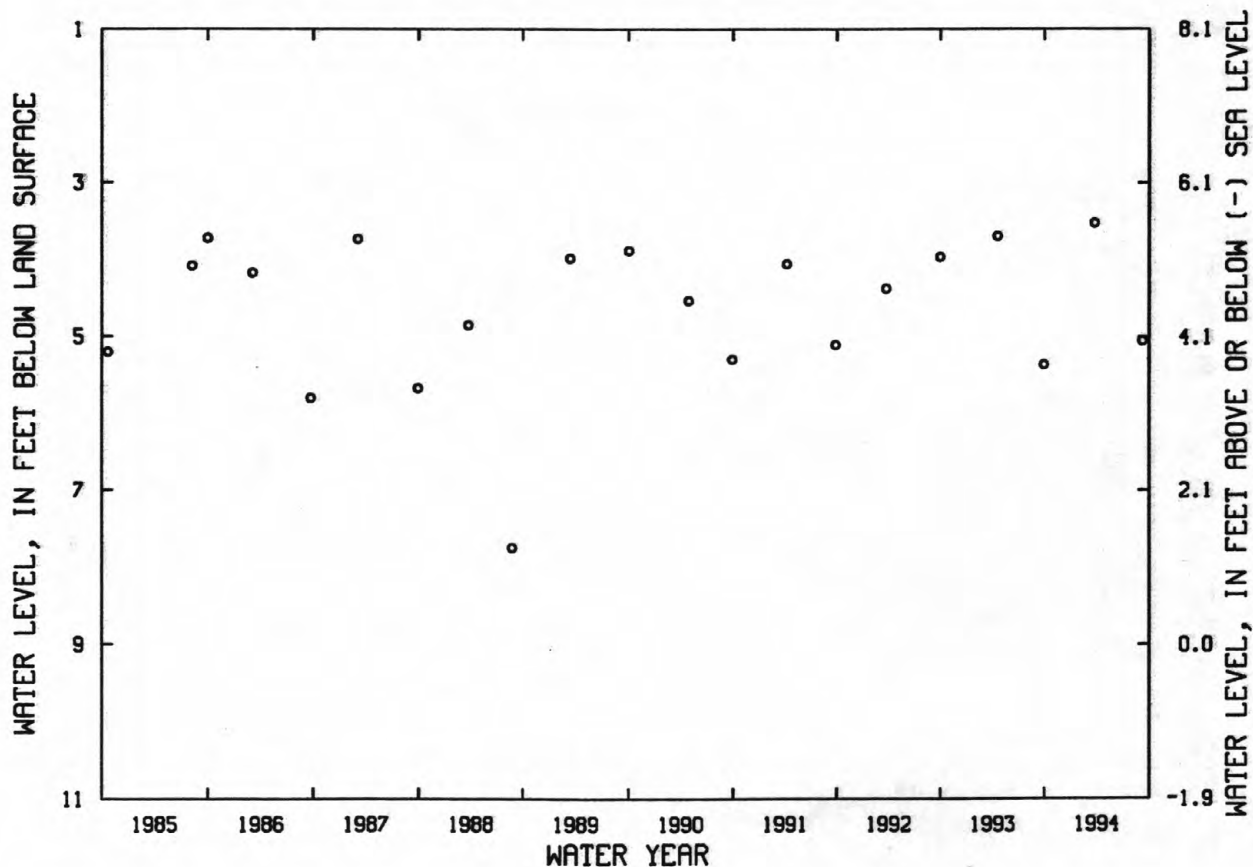
PERIOD OF RECORD.--Jan. 1963 to current year. Records for 1963 to 1982 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.45 ft below land surface, between Nov. 11, 1977 and Feb. 21, 1978; lowest, 7.75 ft below land surface, Aug. 25, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	3.52	SEP 8	5.05

NJ-WRD WELL NO. 09-0020



CAPE MAY COUNTY

385709074512801. Local I.D., Coast Guard 800 Obs. NJ-WRD Well Number, 09-0302.

LOCATION.--Lat 38°57'09", long 74°51'28", Hydrologic Unit 02040302, at U.S. Coast Guard Electronics and Engineering Center, Lower Township.

Owner: U. S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 903 ft, screened 883 to 893 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.05 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

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

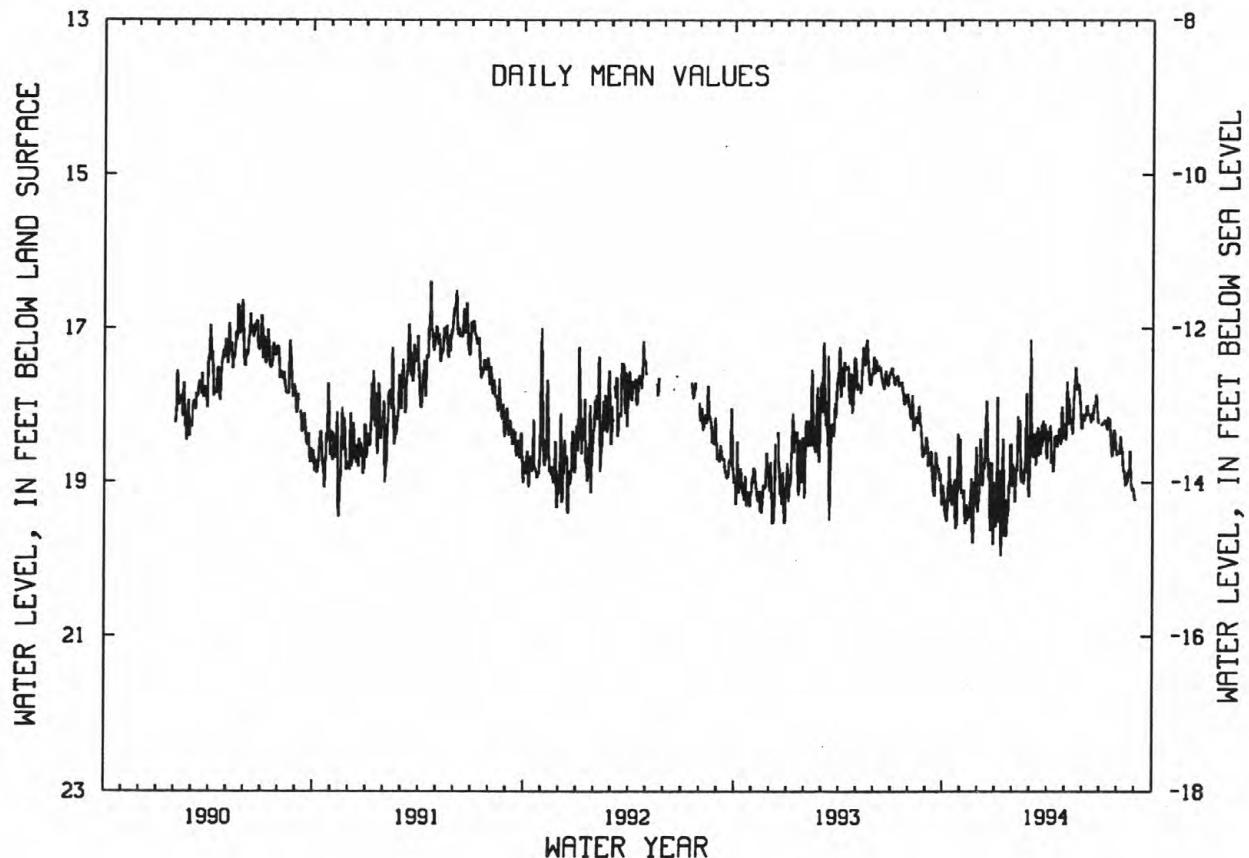
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.04 ft below land surface, Apr. 21, 1991; lowest, 20.41 ft below land surface, Jan. 10, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.42	19.20	18.43	19.18	18.95	18.56	18.41	17.69	18.11	18.23	18.63	---
10	19.06	19.36	18.85	19.95	18.61	18.37	18.66	18.22	18.12	18.19	18.78	---
15	19.23	19.45	18.17	19.00	18.99	18.29	18.53	18.27	18.22	18.15	19.01	---
20	19.12	19.11	18.97	19.58	18.90	18.63	18.40	17.51	18.05	18.40	18.89	---
25	19.55	18.98	18.74	19.03	18.72	18.20	18.34	17.73	17.87	18.42	19.02	---
EOM	18.43	19.38	19.46	18.76	19.18	18.69	18.33	18.30	---	18.65	19.22	---
MEAN	19.14	19.28	18.92	19.10	18.74	18.43	18.45	18.01	18.10	18.34	18.85	---

WTR YR 1994 MEAN 18.67 HIGH 16.21 MAR 3 LOW 20.41 JAN 10

NJ-WRD WELL NO.09-0302



CAPE MAY COUNTY

385748074553301. Local I.D., Canal 5 Obs. NJ-WRD Well Number, 09-0048.

LOCATION.--Lat 38°57'48", long 74°55'33", Hydrologic Unit 02040206, between the Cape May Canal and Jonathon Hoffman Rd., Lower Township.

Owner: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 252 ft, screened 242 to 252 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 17.48 ft above sea level.

Measuring point: Top of shelter shelf, 3.10 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping. Water-quality data for 1994 are available elsewhere in this report.

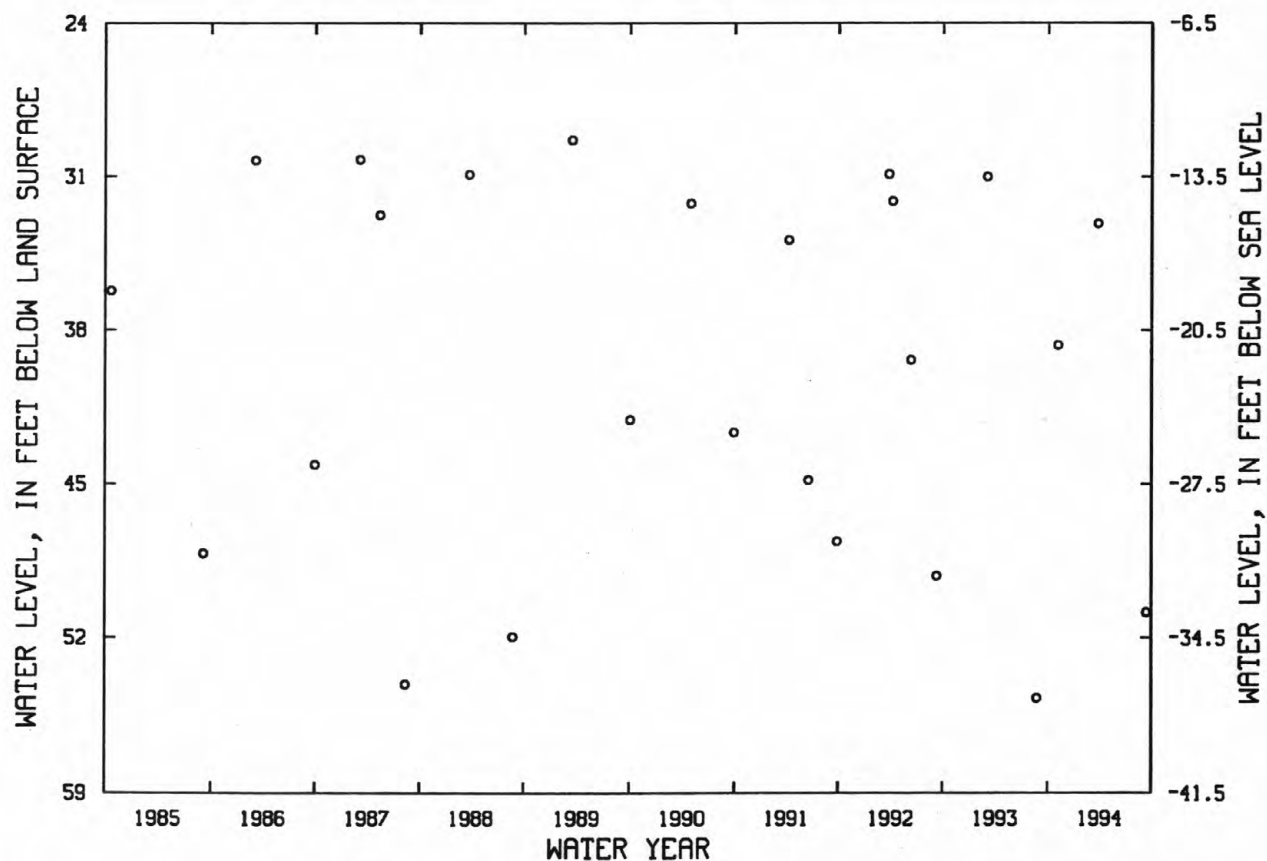
PERIOD OF RECORD.--July 1957 to current year. Records for 1957 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.03 ft below land surface, Mar. 21, 1958; lowest, 56.67 ft below land surface, Aug. 11, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 5	38.69	MAR 25	33.14	SEP 13	50.85

NJ-WRD WELL NO. 09-0048



CAPE MAY COUNTY

385804074574201. Local I.D., Higbee Beach 3 Obs. NJ-WRD Well Number, 09-0049.

LOCATION.--Lat 38°58'04", long 74°57'42", Hydrologic Unit 02040206, on the north bank at the west end of the Cape May Canal, Lower Township.

OWNER: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 250 ft, screened 241 to 250 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 6.00 ft above sea level.

Measuring Point: Front edge of cutout in recorder housing, 2.93 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--June 1965 to current year. Records for 1975 to 1980 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.10 ft below land surface, between Mar. 14 and June 9, 1989; lowest, 34.22 ft below land surface, July 31, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 30, 1993 TO NOV. 5, 1993	19.60	27.93	NOV. 5, 1993	19.63
NOV. 5, 1993 TO MAR. 25, 1994	14.45	21.84	MAR. 25, 1994	16.74
MAR. 25, 1994 TO JUNE 29, 1994	14.17	24.17	JUNE 29, 1994	22.96
JUNE 29, 1994 TO SEPT. 29, 1994	22.04	30.47	SEPT. 29, 1994	26.40

NJ-WRD WELL NO. 09-0049

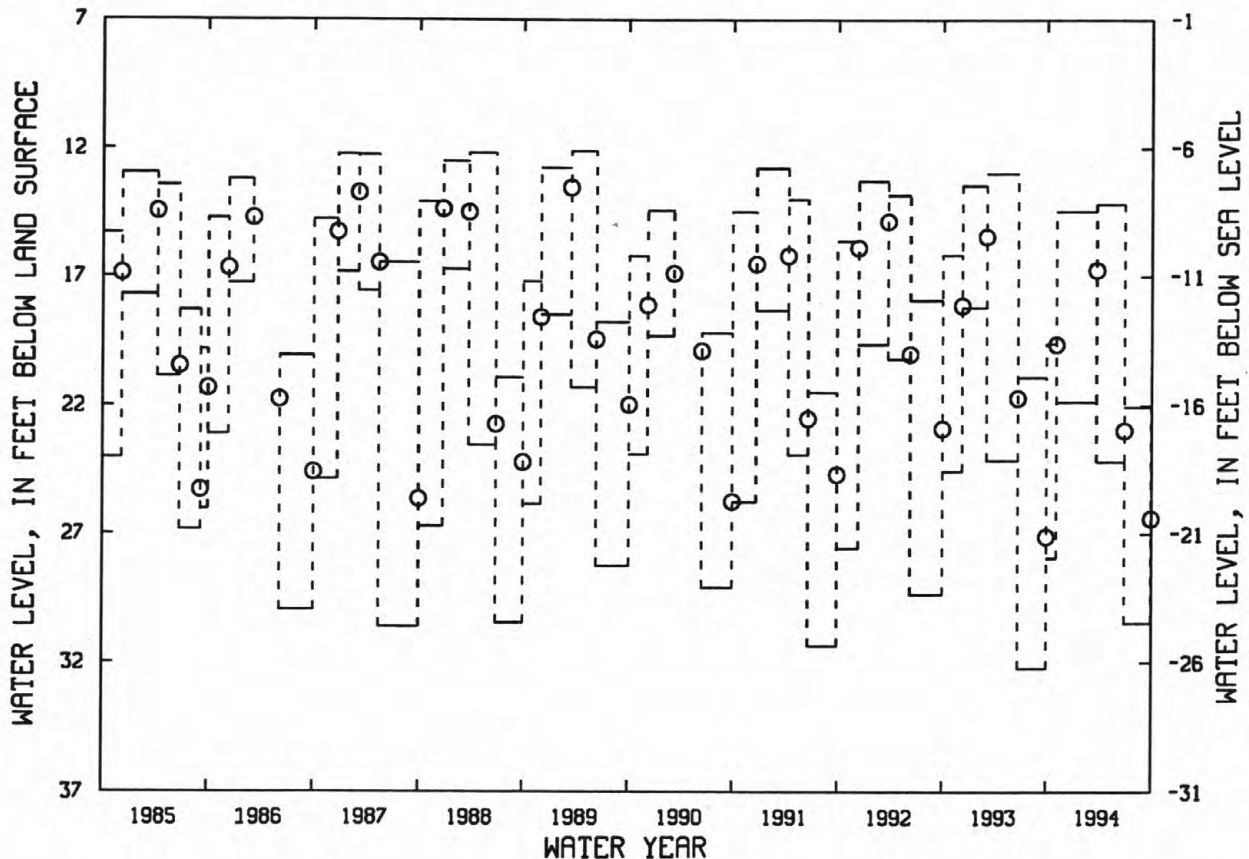
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

— LOWEST WATER LEVEL



CAPE MAY COUNTY

390012074472001. Local I.D., M-1 N Wildwood 800 Obs. NJ-WRD Well Number, 09-0337.

LOCATION.--Lat 39°00'12", long 74°47'20", Hydrologic Unit 02040302, on the north side of 2nd Ave., between Surf Ave. and Ocean Ave., North Wildwood City.

Owner: U.S. Geological Survey - North Wildwood City.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 965 ft, screened 910 to 960 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 4.40 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--July 1992 to current year.

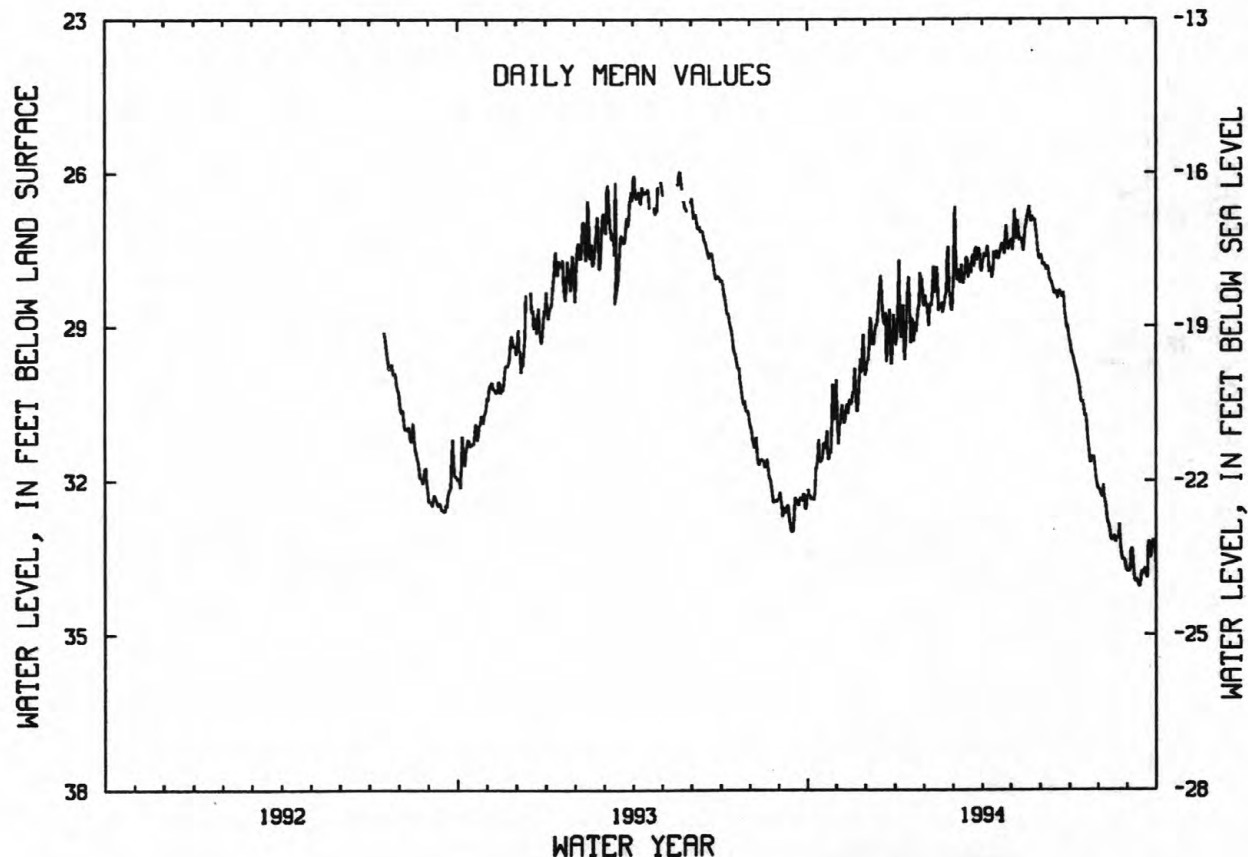
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.93 ft below land surface, May 20, 1993; lowest, 34.95 ft below land surface, Sept. 9, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.32	30.63	28.82	29.03	28.64	28.07	27.57	26.71	27.76	29.59	32.32	33.31
10	31.73	30.60	29.08	29.63	28.33	27.79	27.85	27.31	28.04	30.01	32.72	33.92
15	31.59	30.51	28.20	28.67	28.62	27.64	27.67	27.35	28.35	30.44	33.10	33.76
20	31.21	30.12	28.96	29.15	28.56	27.96	27.50	26.65	28.29	31.14	33.11	33.85
25	31.45	29.63	28.66	28.57	28.34	27.45	27.30	26.90	28.44	31.53	33.42	33.46
EOM	30.02	29.94	29.32	28.37	28.68	27.92	27.39	27.68	29.16	32.14	33.76	33.62
MEAN	31.47	30.37	29.05	28.73	28.39	27.79	27.58	27.14	28.24	30.67	32.94	33.66

WTR YR 1994 MEAN 29.68 HIGH 25.07 MAR 3 LOW 34.95 SEP 9

NJ-WRD WELL NO.09-0337



CAPE MAY COUNTY

390058074542701. Local I.D., Airport 7 Obs. NJ-WRD Well Number, 09-0060.

LOCATION.--Lat 39°00'56", long 74°54'26", Hydrologic Unit 02040206, at the Cape May County Airport, Lower Township.

Owner: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 257 ft, screened 242 to 257 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 13.11 ft above sea level.

Measuring point: Top of shelter shelf, 3.00 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

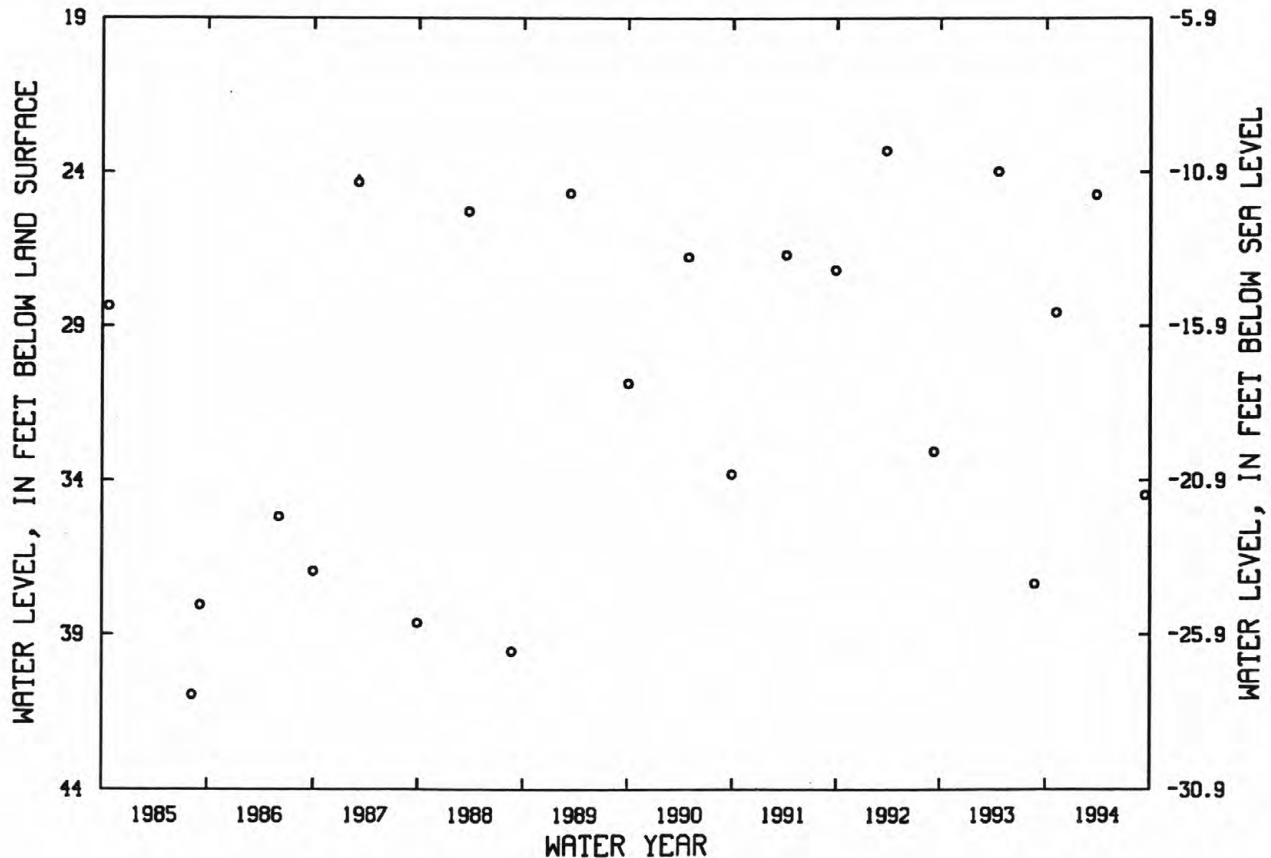
PERIOD OF RECORD.--Apr. 1963 to current year. Records for 1963 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.00 ft below land surface, Apr. 9, 1964; lowest, 42.43 ft below land surface, Aug. 11, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 5	28.55	MAR 25	24.74	SEP 13	34.48

NJ-WRD WELL NO. 09-0060



GROUND-WATER LEVELS

CAPE MAY COUNTY

390156074533401. Local I.D., Pump Pond N. Obs. NJ-WRD Well Number, 09-0333.

LOCATION.--Lat 39°01'56", long 74°53'34", Hydrologic Unit 02040206, on the east side of Rt. 47, about 1,000 ft north of Pumping Station Pond, Middle Township.

Owner: U. S. Geological Survey - Wildwood Water Department.

AQUIFER.--Holly Beach water-bearing zone.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 43 ft, screened 28 to 38 ft. INSTRUMENTATION.--Digital data logger with differential pressure transducer--60 minute recording interval.

DATUM.--Land surface is 20 ft above sea level, from topographic map.

Measuring point: Top of base of aluminum locking cap, 3.61 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--July 1992 to current year.

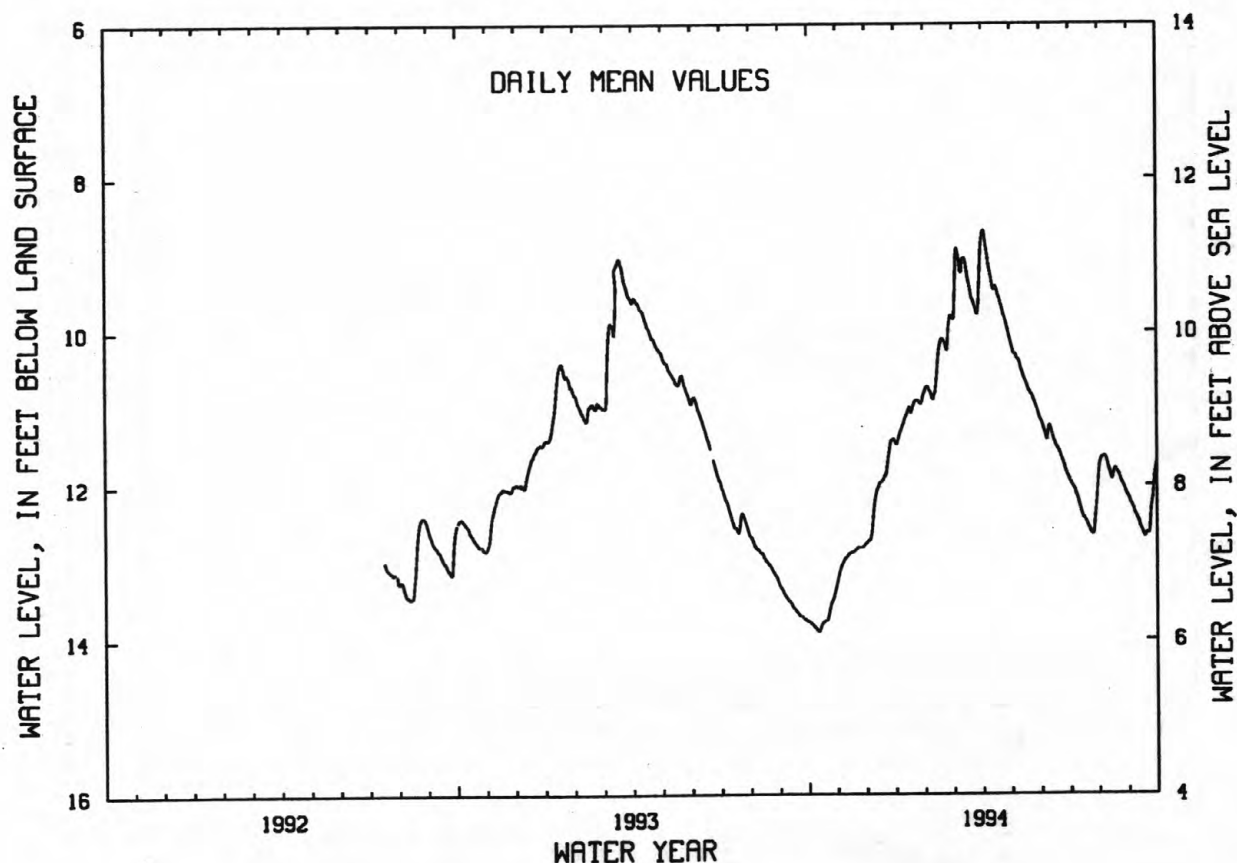
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.68 ft below land surface, Apr. 2, 1994; lowest, 13.89 ft below land surface, Oct. 10-12, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.81	13.01	12.66	11.30	10.78	8.92	8.90	10.29	11.33	12.03	11.64	12.29
10	13.87	12.92	12.14	11.11	10.80	9.23	9.29	10.43	11.23	12.20	11.74	12.44
15	13.78	12.86	11.96	11.00	10.17	9.14	9.42	10.63	11.44	12.41	11.89	12.61
20	13.74	12.82	11.87	10.91	10.14	9.52	9.64	10.78	11.57	12.53	11.83	12.61
25	13.50	12.80	11.47	10.94	9.87	9.72	9.86	10.92	11.74	12.64	11.98	12.21
EOM	13.23	12.75	11.46	10.73	9.82	8.82	10.12	11.15	11.91	11.87	12.15	11.72
MEAN	13.68	12.89	11.98	11.05	10.37	9.34	9.44	10.65	11.49	12.29	11.84	12.36

WTR YR 1994 MEAN 11.46 HIGH 8.68 APR 2 LOW 13.89 OCT 10-12

NJ-WRD WELL NO.09-0333



CAPE MAY COUNTY

390211074505502. Local I.D., Cape May 23 Obs. NJ-WRD Well Number, 09-0081.

LOCATION.--Lat 39°02'11", long 74°50'55", Hydrologic Unit 02040302, in the center of the median of the Garden State Parkway, near mile marker 6, Middle Township.

Owner: U.S. Geological Survey.

AQUIFER.--Holly Beach water-bearing zone.

WELL CHARACTERISTICS.--Driven water-table observation well, diameter 1.25 in., depth 26 ft, screened 23 to 26 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 14.90 ft above sea level.

Measuring point: Top of casing, 1.30 ft above land surface.

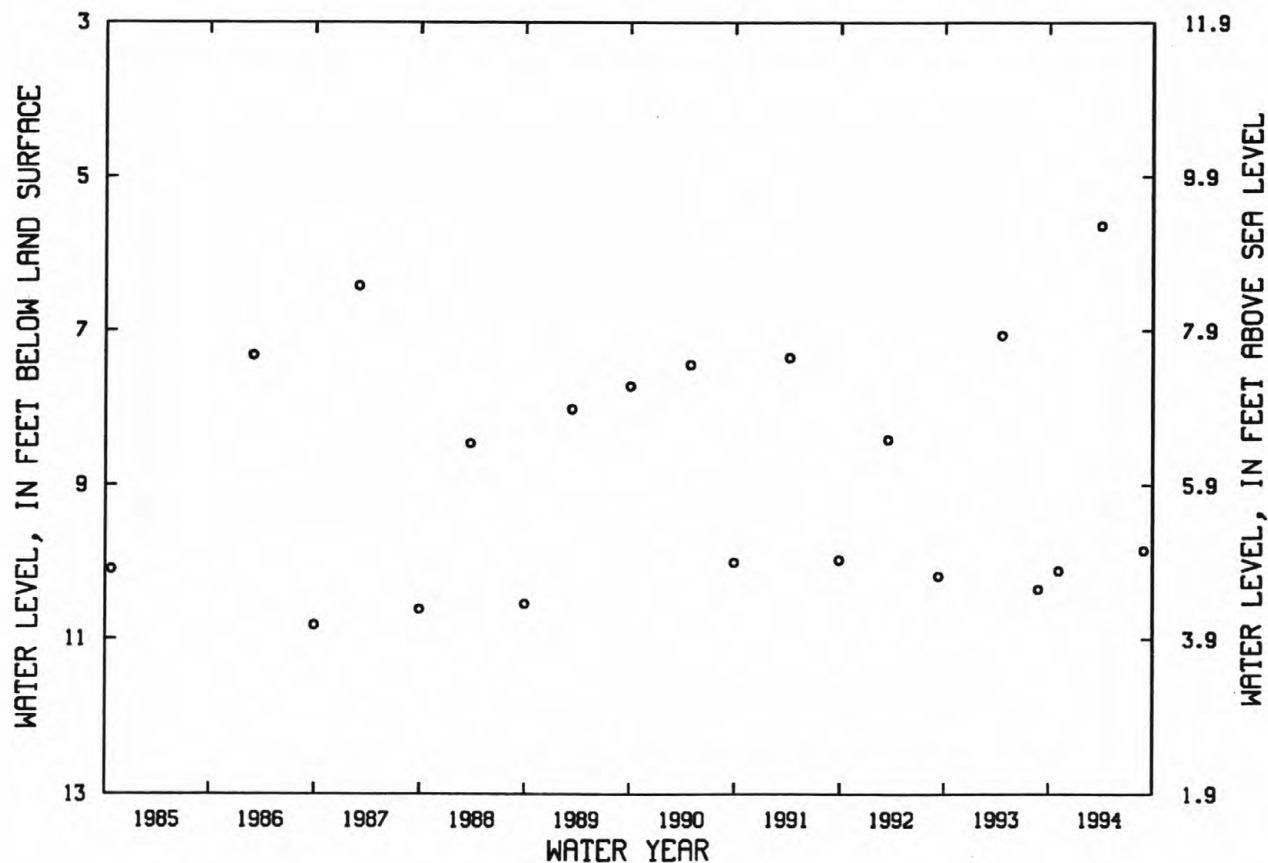
PERIOD OF RECORD.--June 1957 to current year. Records for 1957 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.64 ft below land surface, Apr. 5, 1994; lowest, 10.82 ft below land surface, Sept. 30, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 5	10.11	APR 5	5.64	AUG 31	9.85

NJ-WRD WELL NO. 09-0081



CAPE MAY COUNTY

390211074505501. Local I.D., Cape May 42 Obs. NJ-WRD Well Number, 09-0080.

LOCATION.--Lat 39°02'13", Long 74°50'56", Hydrologic Unit 02040302, in the center of the median of the Garden State Parkway, near mile marker 6, Middle Township.

Owner: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 252 ft, screened 242 to 252 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 13.67 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 2.41 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

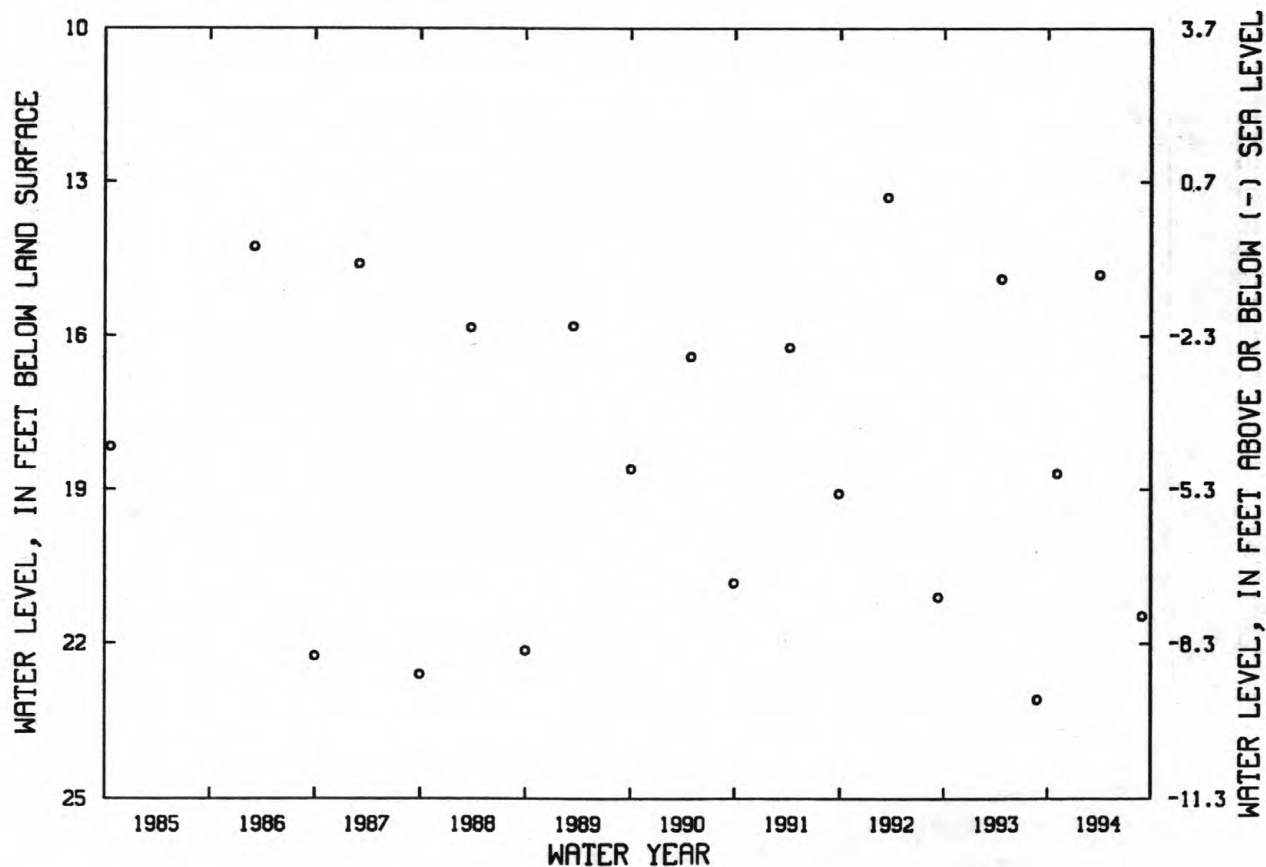
PERIOD OF RECORD.--July 1957 to current year. Records for 1957 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.82 ft below land surface, Apr. 3, 6, 1958; lowest, 23.08 ft below land surface, Aug. 25, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 5	18.69	APR 5	14.81	AUG 31	21.47

NJ-WRD WELL NO. 09-0080



CAPE MAY COUNTY

390422074544701. Local I.D., Oyster 800 Obs. NJ-WRD Well Number, 09-0306.

LOCATION.--Lat 39°04'22", Long 74°54'47", Hydrologic Unit 02040206, at the Rutgers Oyster Laboratory near Green Creek, Middle Township.

Owner: U. S. Geological Survey.

AQUIFER.--Atlantic City 800-foot sand of the Kirkwood Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 709 ft, screened 656 to 666 ft.

INSTRUMENTATION.--Digital data logger with differential pressure transducer--60 minute recording interval.

DATUM.--Land surface is 6 ft above sea level, from topographic map.

Measuring point: Top of PVC casing, 3.05 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

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

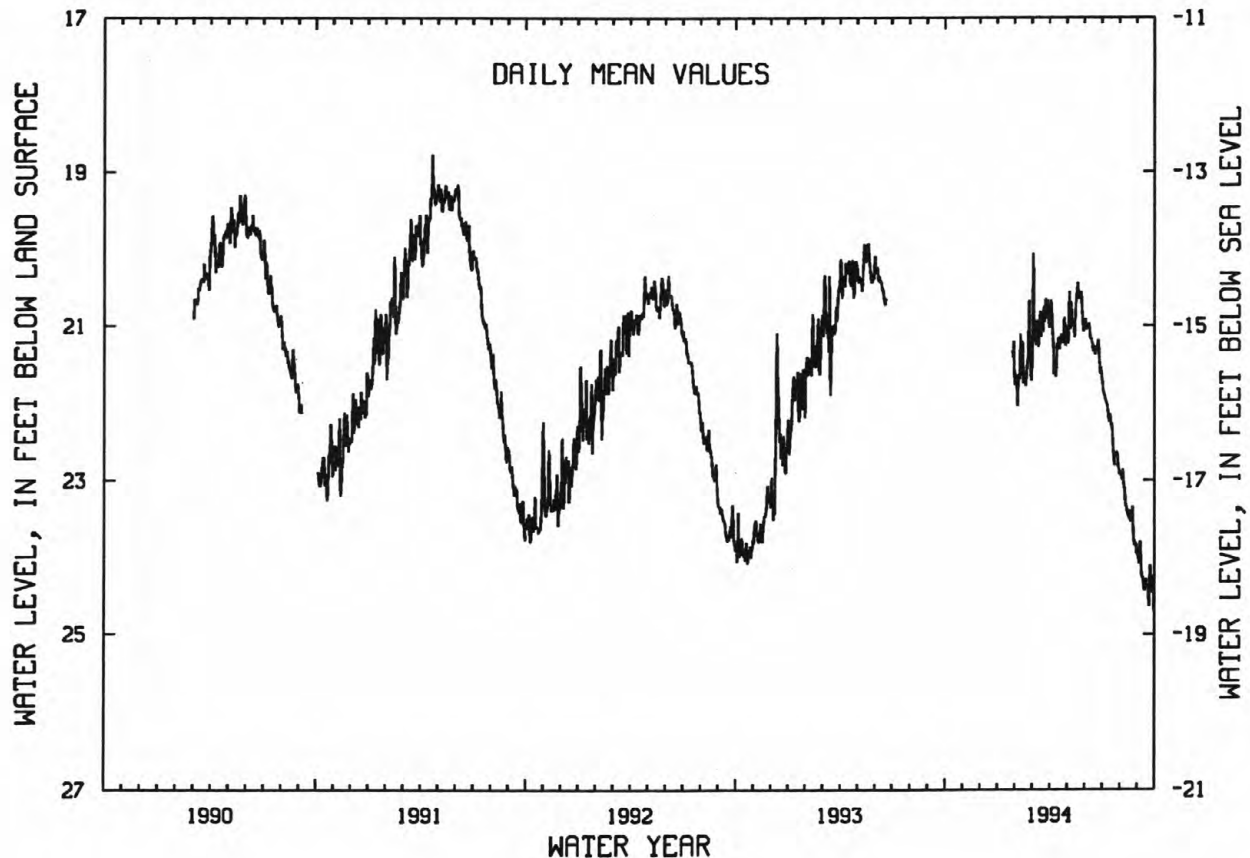
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.74 ft below land surface, May 15, 1991; lowest, 25.59 ft below land surface, Sept. 30, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	21.72	21.17	20.97	20.56	20.99	21.89	23.00	23.79
10	---	---	---	---	21.63	20.93	21.46	21.00	21.14	22.03	23.26	24.26
15	---	---	---	---	21.71	20.82	21.30	20.98	21.33	22.14	23.44	24.28
20	---	---	---	---	21.58	21.08	21.15	20.44	21.31	22.54	23.49	24.56
25	---	---	---	---	21.42	20.65	21.08	20.57	21.25	22.69	23.77	24.45
EOM	---	---	---	21.62	21.71	21.02	21.13	21.04	21.62	22.92	23.95	24.73
MEAN	---	---	---	---	21.53	20.95	21.18	20.83	21.23	22.30	23.40	24.28

WTR YR 1994 HIGH 18.55 MAR 3 LOW 25.59 SEP 30

NJ-WRD WELL NO.09-0306



CAPE MAY COUNTY

390425074544601. Local I.D., Oyster Lab 4 Obs. NJ-WRD Well Number, 09-0089.

LOCATION.--Lat 39°04'25", Long 74°54'46", Hydrologic Unit 02040206, at the Rutgers Oyster Laboratory near Green Creek, Middle Township.

Owner: U.S. Geological Survey.

AQUIFER.--Cohansey Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 210 ft, screened 195 to 210 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 7.37 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 3.90 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping. Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--Aug. 1957 to current year. Records for 1957 to 1982 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.07 ft below land surface, Apr. 3, 1958; lowest, 15.71 ft below land surface, between June 4 and Sept. 30, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 30, 1993 TO NOV. 5, 1993	7.95	13.18	NOV. 5, 1993	8.59
NOV. 5, 1993 TO MAR. 25, 1994	5.04	11.49	MAR. 25, 1994	9.14
MAR. 25, 1994 TO JUNE 29, 1994	5.71	12.43	JUNE 29, 1994	10.32
JUNE 29, 1994 TO SEPT. 2, 1994	9.04	12.93	SEPT. 2, 1994	10.94
SEPT. 2, 1994 TO SEPT. 29, 1994	8.82	12.76	SEPT. 29, 1994	11.80

NJ-WRD WELL NO. 09-0089

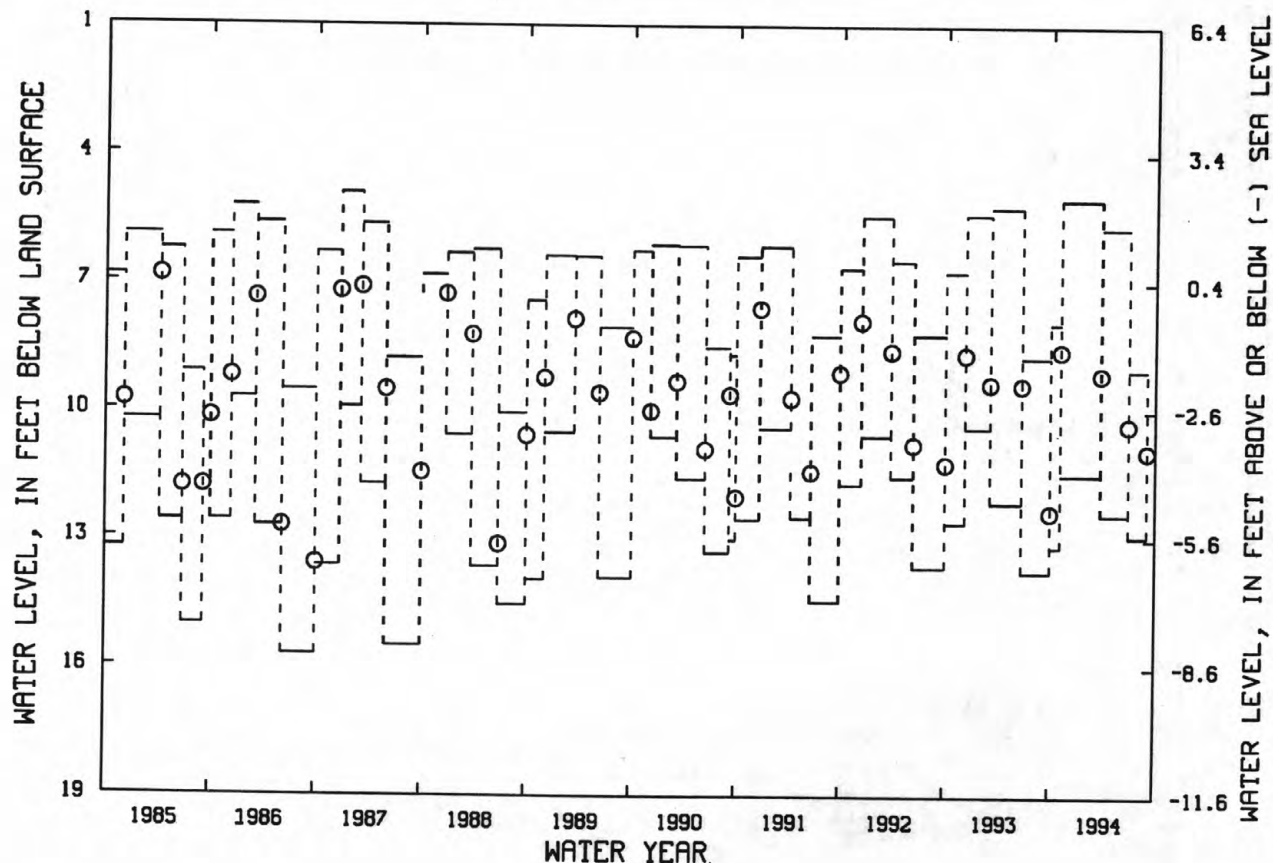
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

□ LOWEST WATER LEVEL



CAPE MAY COUNTY

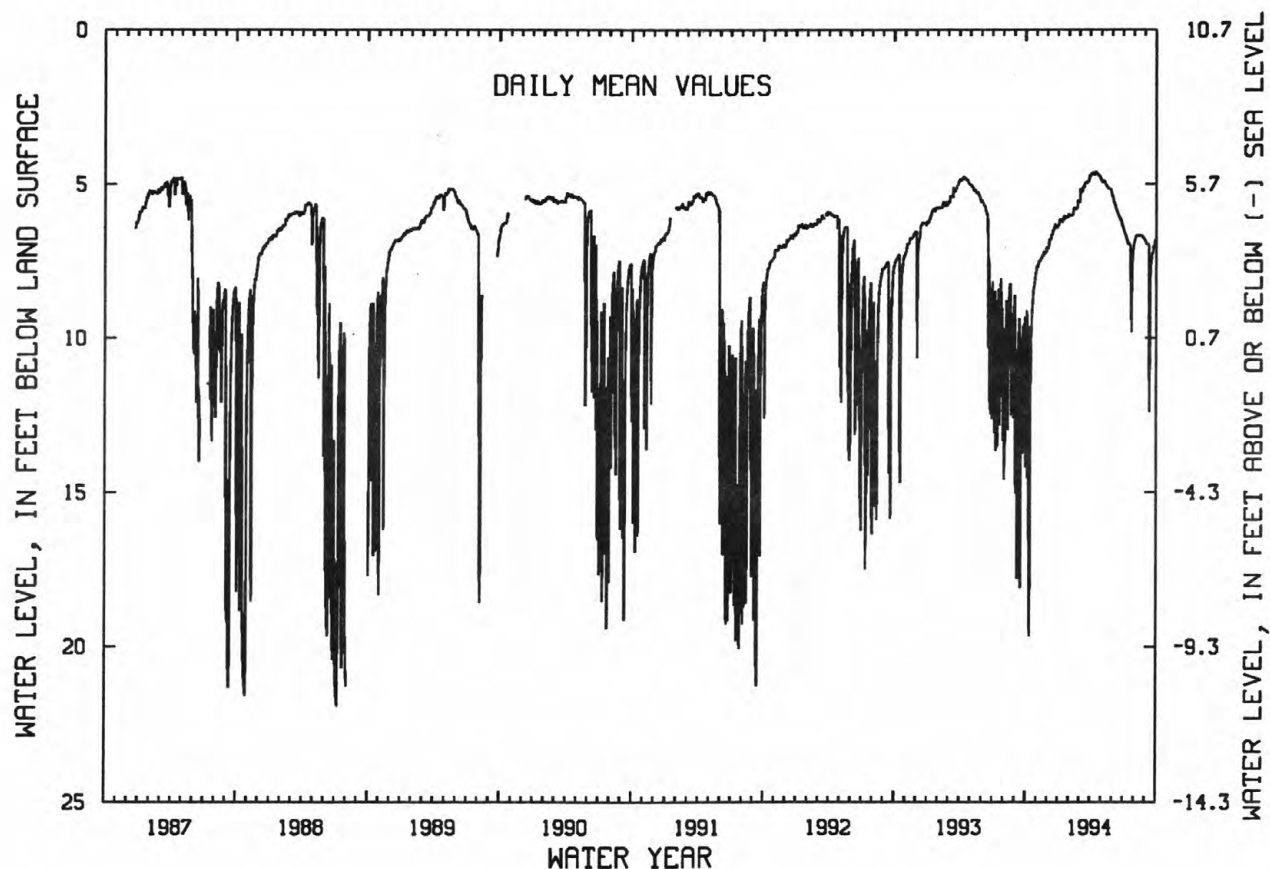
390608074483801. Local I.D., Cape May County Park 8 Obs. NJ-WRD Well Number, 09-0099.
 LOCATION.--Lat 39°06'11", long 74°48'38", Hydrologic Unit 02040302, at Cape May County Park, Rt. 9, Middle Township.
 Owner: U.S. Geological Survey.
 AQUIFER.--Cohansey Sand of Miocene age.
 WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 230 ft, screened 214 to 230 ft.
 INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Nov. 1968 to Nov. 1986.
 DATUM.--Land surface is 10.73 ft above sea level.
 Measuring point: Top of recorder shelf, 2.20 ft above land surface.
 REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.
 PERIOD OF RECORD.--Oct. 1957 to current year. Records from 1957 to 1987 are unpublished and are available in files of the New Jersey District Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.73 ft below land surface, Apr. 5, 1958; lowest, 22.01 ft below land surface, July 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.54	7.54	6.82	6.19	6.00	5.22	4.66	4.87	5.61	6.61	6.71	6.95
10	18.57	7.46	6.74	6.25	5.97	5.10	4.65	4.96	5.80	6.77	6.66	10.71
15	10.14	7.33	6.51	6.10	5.78	4.98	4.63	5.07	5.97	6.89	6.64	7.59
20	8.68	7.19	6.44	6.11	5.79	4.98	4.68	5.13	6.10	7.00	6.68	7.25
25	8.21	7.22	6.34	6.09	5.56	4.89	4.72	5.15	6.21	7.67	6.75	7.00
EOM	7.66	7.11	6.36	6.01	5.59	4.76	4.85	5.39	6.41	6.90	6.85	6.83
MEAN	10.49	7.36	6.59	6.12	5.82	5.04	4.69	5.07	5.94	7.09	6.72	7.47

WTR YR 1994 MEAN 6.54 HIGH 4.54 APR 13-14 LOW 20.17 OCT 12

NJ-WRD WELL NO.09-0099



GROUND-WATER LEVELS

CUMBERLAND COUNTY

391350075002001. Local I.D., Heislerville 1 Obs. NJ-WRD Well Number, 11-0118.

LOCATION.--Lat 39°13'50", long 75°00'18", Hydrologic Unit 02040206, in Heislerville Wildlife Management Area, Matts Landing Rd., Heislerville, Maurice River Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 41 ft, screened 36 to 41 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 6.22 ft above sea level.

Measuring point: Top of casing, 1.00 ft above land surface.

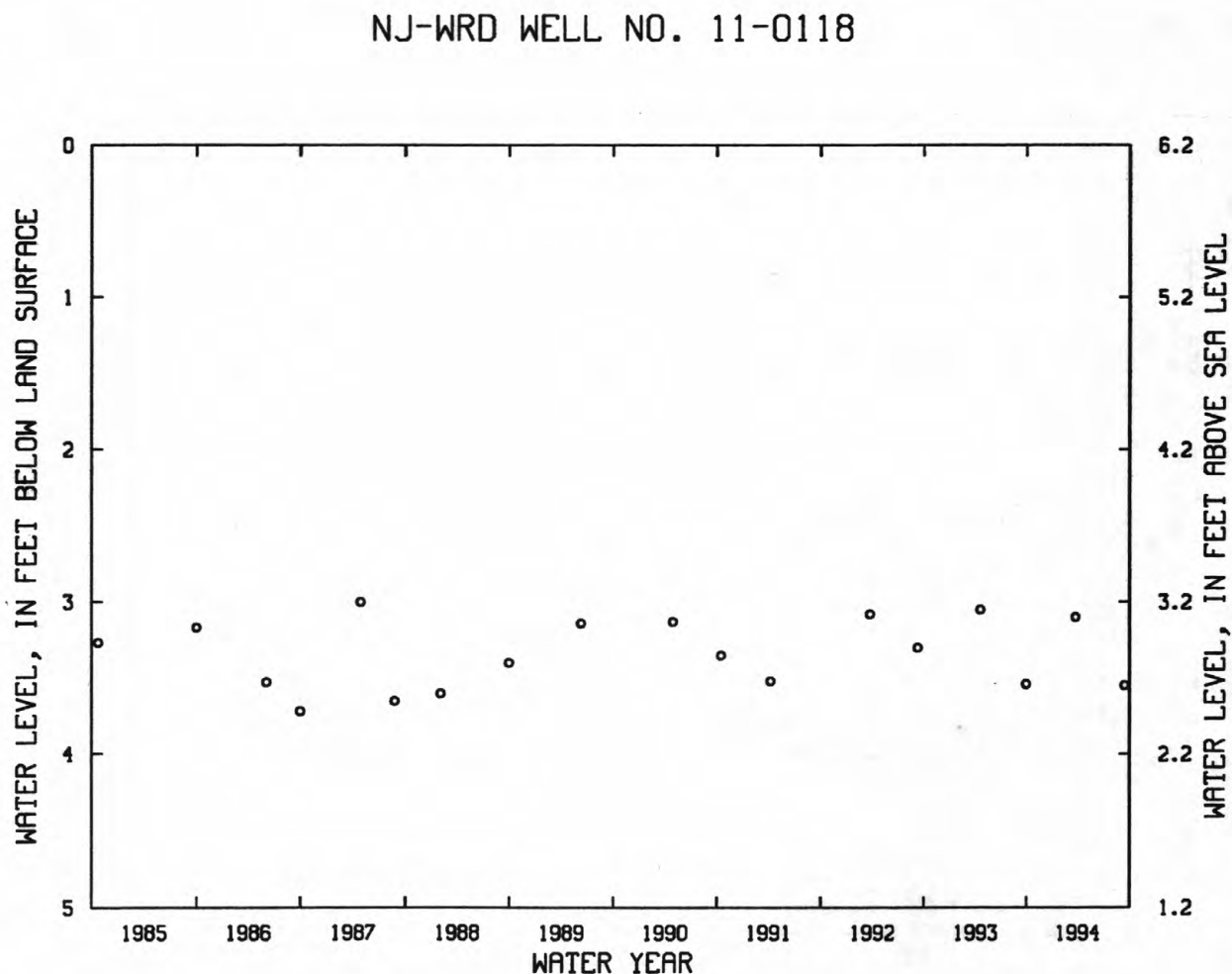
REMARKS.--Water level is affected by tidal fluctuation.

PERIOD OF RECORD.--Mar. 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.88 ft below land surface, Apr. 28, 1983; lowest, 3.79 ft below land surface, Aug. 12, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	3.10	SEP 13	3.55



CUMBERLAND COUNTY

391351075001801. Local I.D., Heislerville 2 Obs. NJ-WRD Well Number, 11-0119.

LOCATION.--Lat 39°13'50", long 75°00'18", Hydrologic Unit 02040206, in Heislerville Wildlife Management Area, Matts Landing Rd., Heislerville, Maurice River Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 135 ft, screened 125 to 135 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 5.98 ft above sea level.

Measuring point: Top of casing, 1.00 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

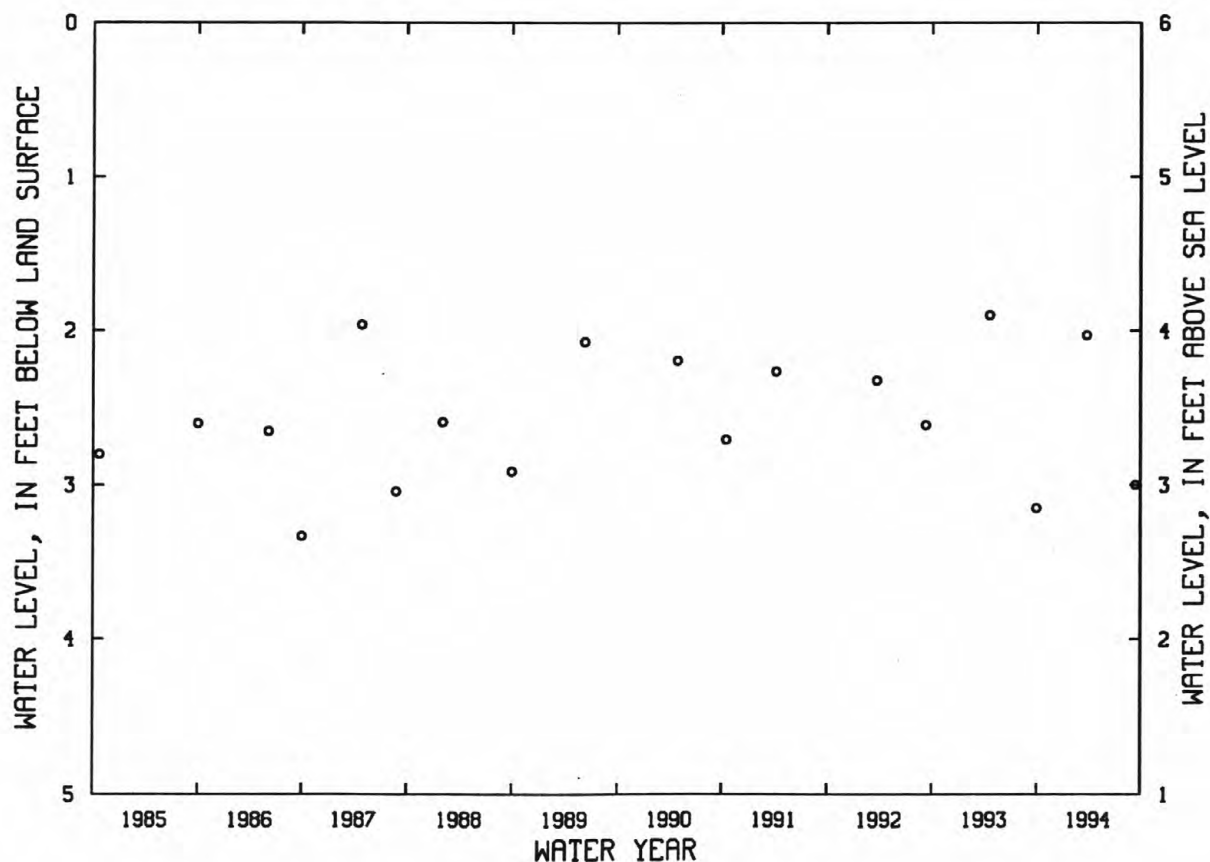
PERIOD OF RECORD.--Mar. 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.64 ft below land surface, Apr. 28, 1983; lowest, 3.25 ft below land surface, Aug. 12, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	2.03	SEP 13	3.00

NJ-WRD WELL NO. 11-0119



CUMBERLAND COUNTY

391828075120902. Local I.D., Jones Island 2 Obs. NJ-WRD Well Number, 11-0096.

LOCATION.--Lat 39°18'29", long 75°12'08", Hydrologic Unit 02040206, in Nantuxent Wildlife Management Area, about 1.7 mi south of Cedarville, Lawrence Township.

Owner: Cumberland County.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 375 ft, screened 365 to 375 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 10.10 ft above sea level.

Measuring point: Top of recorder shelf, 1.90 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation. Well was pumped on Sept. 22, 1986. After pumping, the water level did not return to its previous level. Therefore, the screen may have been partially clogged prior to the pumping on Sept. 22, 1986.

PERIOD OF RECORD.--Mar. 1972 to current year.

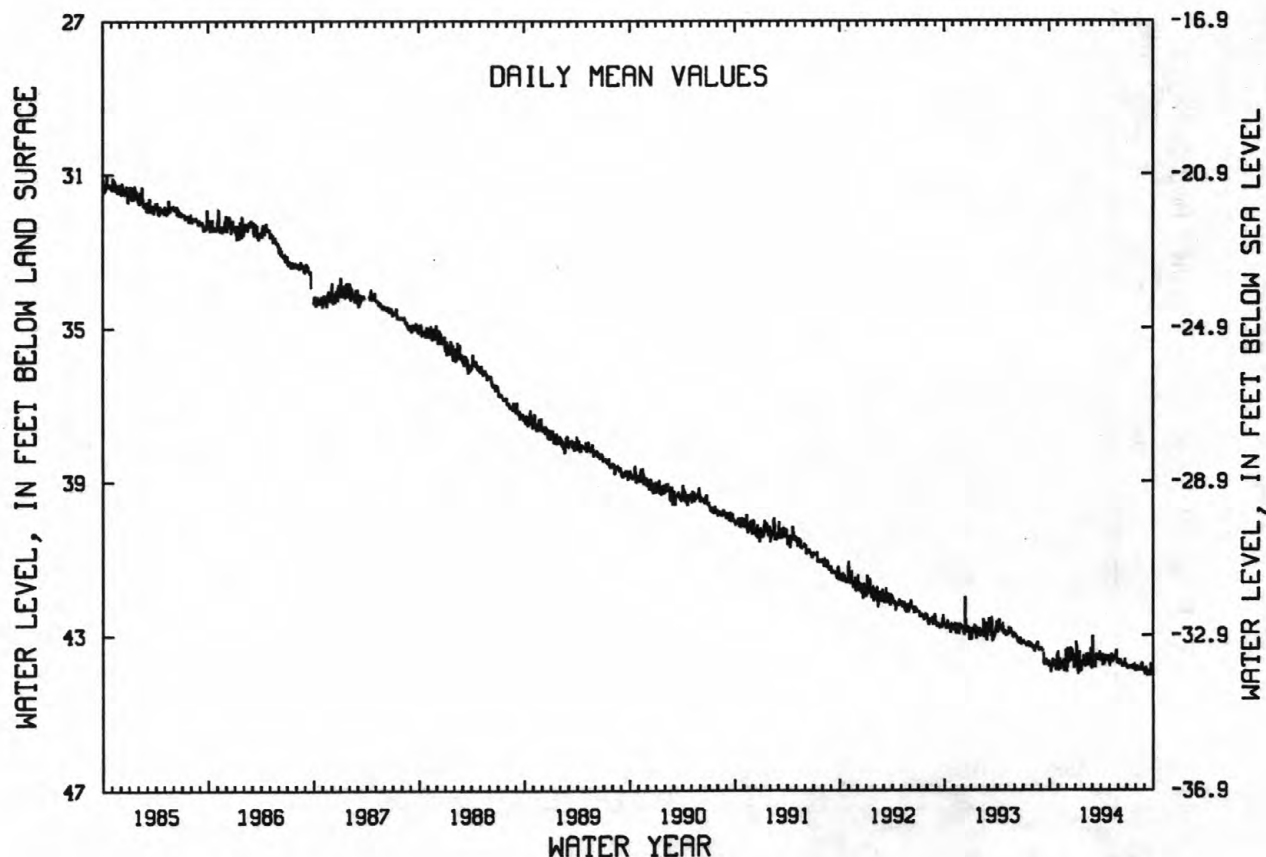
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.27 ft below land surface, Apr. 11, 1972; lowest, 44.13 ft below land surface, Sept. 12, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.83	43.61	43.34	43.65	43.68	43.58	43.58	43.53	43.73	43.86	43.79	43.86
10	43.75	43.80	43.53	44.00	43.78	43.53	43.61	43.63	43.73	43.81	43.87	43.97
15	43.80	43.69	43.32	43.68	43.64	43.48	43.59	43.62	43.80	43.77	43.84	43.99
20	43.75	43.64	43.66	43.93	43.74	43.65	43.62	43.55	43.78	43.87	43.81	44.02
25	43.81	43.86	43.48	43.78	43.62	43.51	43.55	43.42	43.62	43.76	43.90	43.92
EOM	43.41	43.90	43.77	43.72	43.87	43.66	43.63	43.70	43.74	43.93	43.92	43.98
MEAN	43.74	43.76	43.61	43.72	43.68	43.58	43.61	43.59	43.72	43.83	43.85	43.93

WTR YR 1994 MEAN 43.72 HIGH 42.74 MAR 3 LOW 44.13 SEP 12

NJ-WRD WELL NO.11-0096



CUMBERLAND COUNTY

391830075120801. Local I.D., Jones Island 1 Obs. NJ-WRD Well Number, 11-0097.

LOCATION.--Lat 39°18'29", Long 75°12'08", Hydrologic Unit 02040206, in Nantuxent Wildlife Management Area, about 1.7 mi south of Cedarville, Lawrence Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 171 ft, screened 166 to 171 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 10.10 ft above sea level.

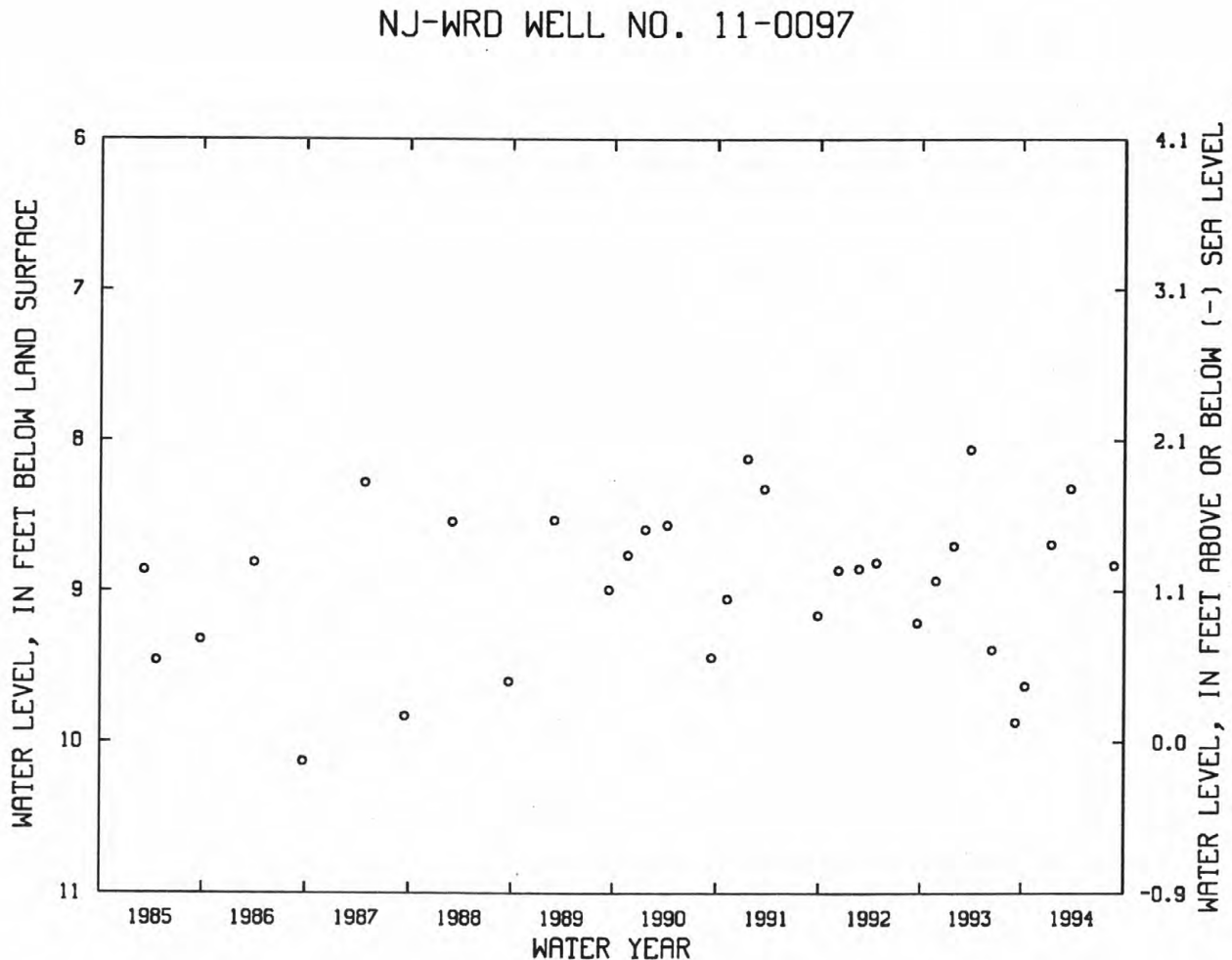
Measuring point: Top of base of aluminum locking cap, 3.30 ft above land surface.

PERIOD OF RECORD.--Mar. 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.86 ft below land surface, Feb. 8, 1973; lowest, 10.13 ft below land surface, Sept. 22, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	9.63	JAN 13	8.69	MAR 23	8.32	AUG 25	8.83



GROUND-WATER LEVELS

CUMBERLAND COUNTY

392508075184601. Local I.D., Sheppards 2 Obs. NJ-WRD Well Number, 11-0073.

LOCATION.--Lat 39°25'08", long 75°18'46", Hydrologic Unit 02040206, at the Holly Shores Girl Scout Camp at Sheppards Mill, Greenwich Rd., Greenwich Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 40 ft, screened 35 to 40 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 37.35 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 2.61 ft above land surface.

REMARKS.--Water level is affected by the stage of Sheppards Mill Pond.

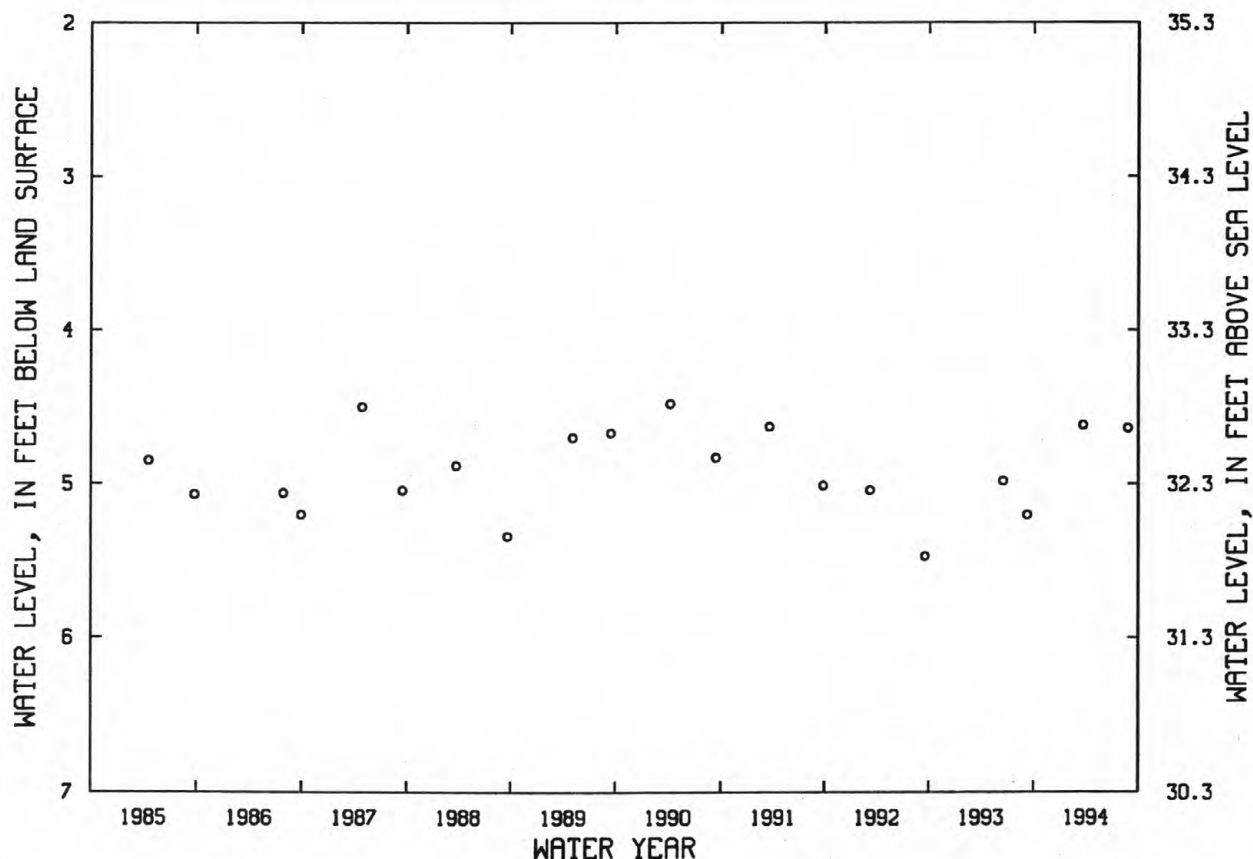
PERIOD OF RECORD.--Mar. 1973 to current year. Records for 1973 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.00 ft below land surface, May 4, 1973; lowest, 5.47 ft below land surface, Sept. 17, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	4.62	AUG 25	4.64

NJ-WRD WELL NO. 11-0073



CUMBERLAND COUNTY

392512074521206. Local I.D., Ragovin 2100 Obs. NJ-WRD Well Number 11-0137.

LOCATION.--Lat 39°25'14", long 74°52'17", Hydrologic Unit 02040302, in wooded area off Harriet Ave., 1.5 mi southeast of Milmay, Maurice River Township.

Owner: Sam DeRosa.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 5 in., depth 2,093 ft, perforated casing 2,083 to 2,093 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 85 ft above sea level, by altimeter.

Measuring point: Top of recorder shelf, 2.40 ft above land surface.

REMARKS.--This well is perforated in a saline zone of the aquifer system (Luzier, 1980,p. 8-12). An equivalent freshwater head is obtained by multiplying the column of water in the well by the ratio of density of water in the well to the density of freshwater. In 1974, the density of water was 1.011 grams per milliliter at 20 deg. C and a plus 17 foot correction was needed to obtain the equivalent freshwater head. The well was pumped on Feb. 3, 1988. After pumping, the water-level did not return to its previous level. Therefore, the perforated area may have been partially clogged prior to the pumping on Feb. 3, 1988.

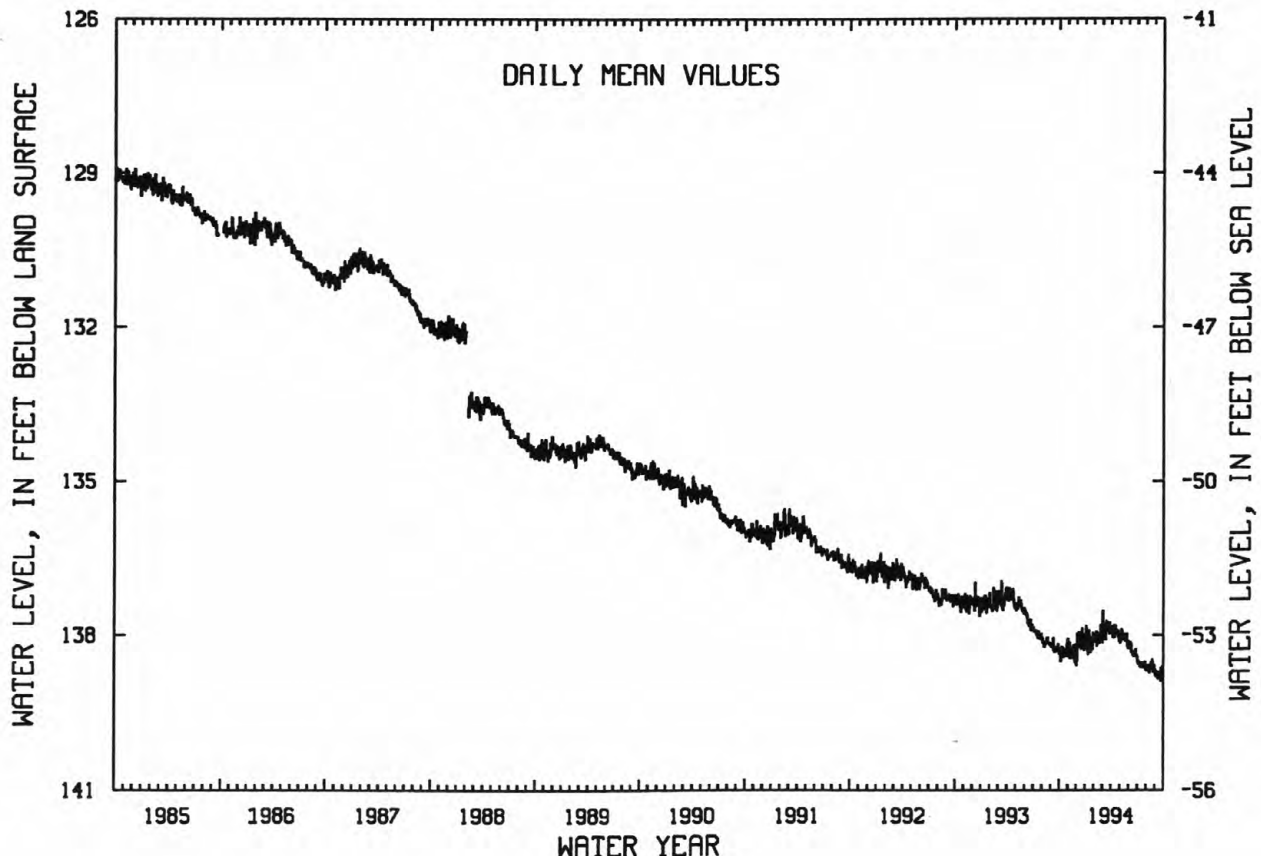
PERIOD OF RECORD.--Oct. 1974 to current year. Records for 1974 to 1977 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 115.82 ft below land surface, Apr. 3, 1975; lowest, 138.90 ft below land surface, Sept. 20-21, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	138.36	138.17	137.96	138.09	138.01	137.79	137.87	137.97	138.27	138.56	138.58	138.75
10	138.32	138.38	138.10	138.39	138.22	137.81	137.92	138.03	138.30	138.55	138.70	138.78
15	138.43	138.27	137.98	138.09	138.03	137.74	137.88	138.03	138.36	138.52	138.58	138.82
20	138.38	138.19	138.19	138.33	138.12	137.87	137.92	138.11	138.39	138.63	138.59	138.88
25	138.35	138.51	137.98	138.17	137.95	137.84	137.90	137.99	138.29	138.55	138.70	138.72
EOM	138.06	138.50	138.27	138.10	138.15	137.94	138.05	138.22	138.40	138.70	138.66	138.70
MEAN	138.32	138.35	138.16	138.14	138.07	137.87	137.93	138.06	138.31	138.57	138.64	138.75
WTR YR 1994	MEAN 138.26 HIGH 137.47 MAR 3 LOW 138.90 SEP 20-21											

NJ-WRD WELL NO.11-0137



CUMBERLAND COUNTY

392528075064101. Local I.D., Fair Grounds 3 Obs. NJ-WRD Well Number, 11-0163.

LOCATION.--Lat 39°25'26", long 75°06'43", Hydrologic Unit 02040206, at the Cumberland County Fairgrounds, between Carmel and Morais Avenues, Millville City.

Owner: Cumberland County.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 473 ft, screened 463 to 473 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 80 ft above sea level from topographic map.

Measuring point: Top of base of aluminum locking cap, 3.34 ft above land surface.

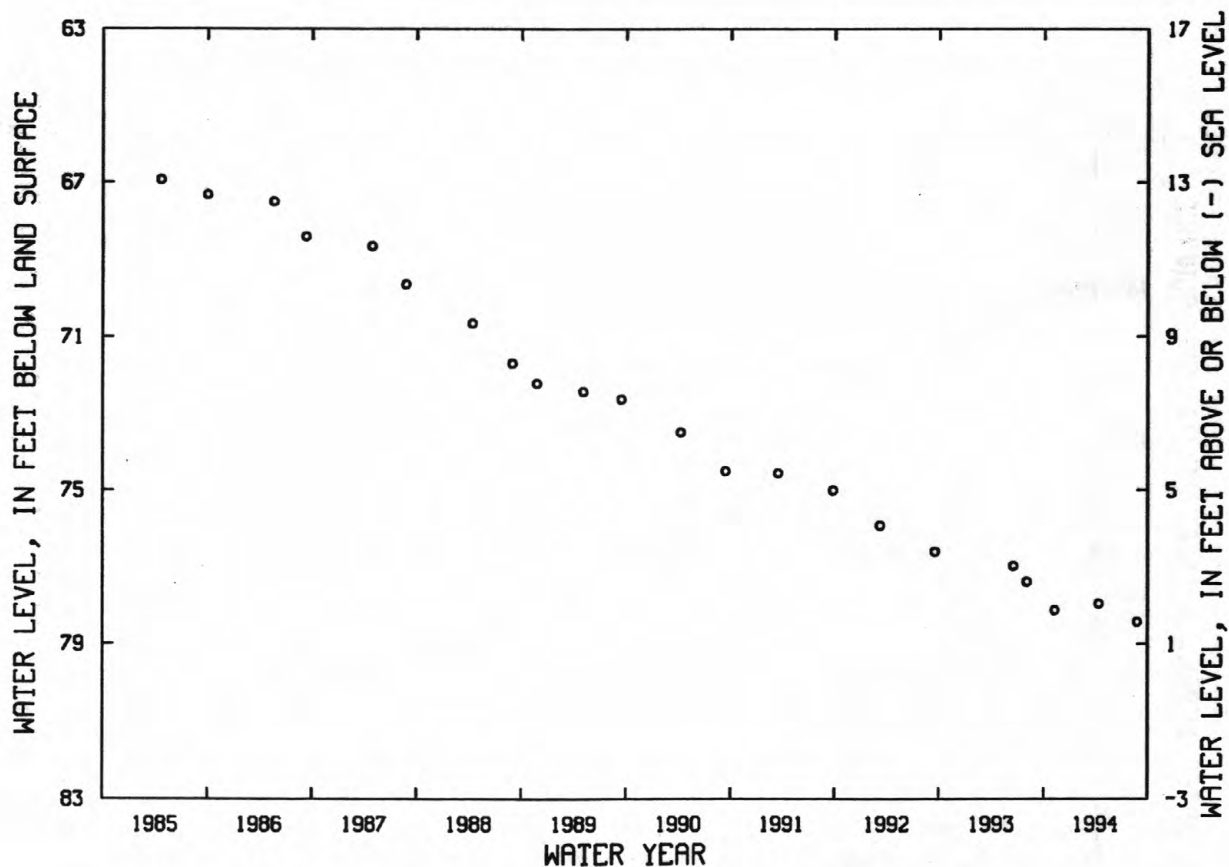
PERIOD OF RECORD.--May 1973 to current year. Records for 1973 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 54.62 ft below land surface, May 4, 1973; lowest, 78.43 ft below land surface, Aug. 25, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 9	78.13	APR 12	77.96	AUG 25	78.43

NJ-WRD WELL NO. 11-0163



CUMBERLAND COUNTY

392731075092401. Local I.D., Vocational School 2 Obs. NJ-WRD Well Number, 11-0042.

LOCATION.--Lat 39°27'32", long 75°09'29", Hydrologic Unit 02040206, next to the Cumberland County Vocational and Technical School on Bridgeton Ave., Deerfield Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 47 ft, screened 42 to 47 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Mar. 1972 to June 1987.

DATUM.--Land surface is 81.77 ft above sea level.

Measuring point: Top of recorder shelf, 2.92 ft above land surface.

REMARKS.--Water level is occasionally affected by pumping from nearby irrigation well.

PERIOD OF RECORD.--Mar. 1972 to current year. Records from 1972 to 1987 are unpublished and are available in files of the New Jersey District Office.

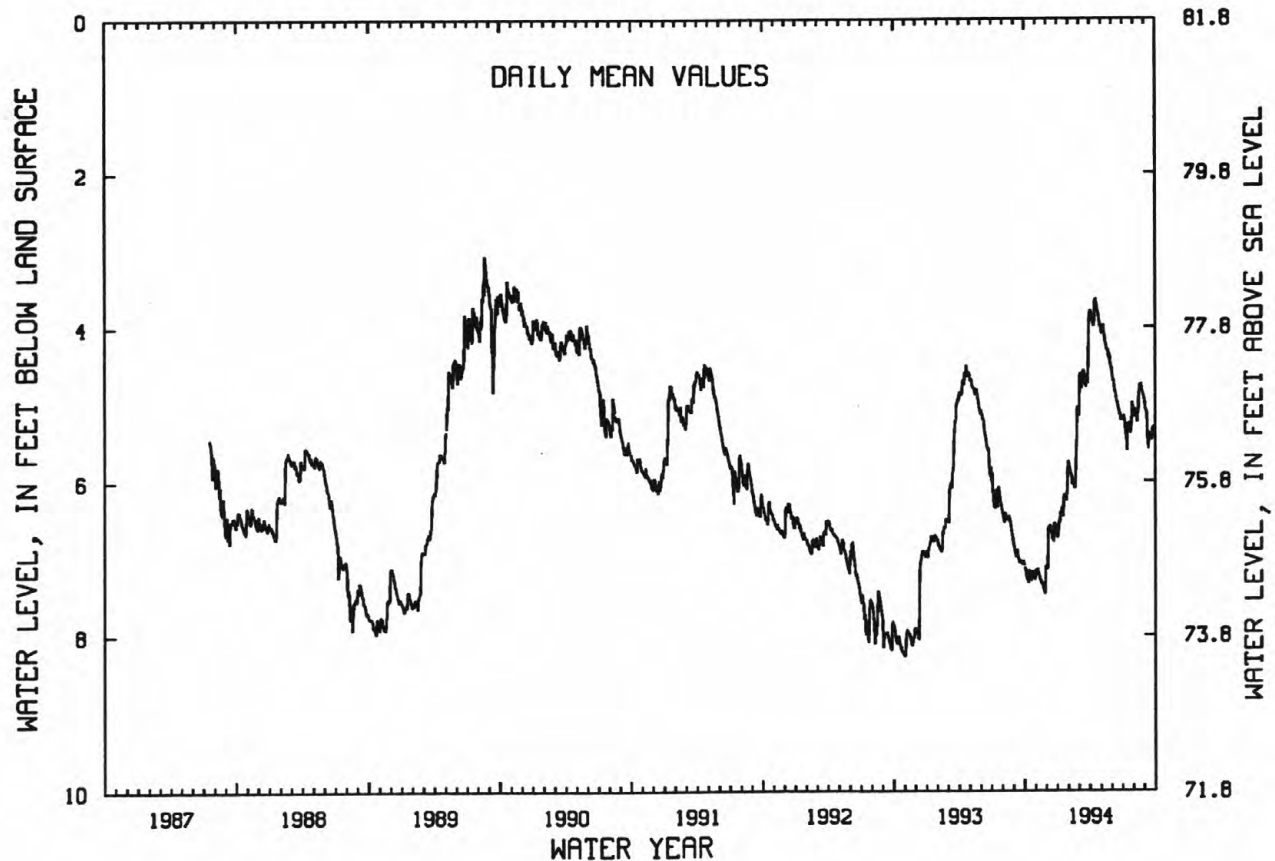
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.40 ft below land surface, Apr. 21, 1972; lowest, 8.39 ft below land surface, Sept. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.21	7.18	6.87	6.53	5.86	4.69	3.86	4.01	4.70	5.16	5.14	5.09
10	7.30	7.21	6.60	6.42	6.04	4.65	3.90	4.10	4.83	5.38	5.20	5.51
15	7.20	7.29	6.66	6.39	6.05	4.58	3.69	4.20	4.96	5.26	4.84	5.41
20	7.29	7.33	6.78	6.18	5.84	4.77	3.76	4.29	5.07	5.29	4.82	5.46
25	7.22	7.45	6.55	6.24	5.04	4.66	3.86	4.35	5.16	5.36	4.83	5.34
EOM	7.15	7.11	6.72	5.76	5.14	3.85	3.97	4.53	5.18	5.08	4.94	5.39
MEAN	7.22	7.28	6.71	6.30	5.75	4.61	3.84	4.23	4.94	5.26	4.97	5.32

WTR YR 1994 MEAN 5.54 HIGH 3.60 APR 16 LOW 7.46 NOV 26-27

NJ-WRD WELL NO.11-0042



CUMBERLAND COUNTY

392732075092401. Local I.D., Vocational School 1 Obs. NJ-WRD Well Number, 11-0043.

LOCATION.--Lat 39°27'32", long 75°09'29", Hydrologic Unit 02040206, next to the Cumberland County Vocational and Technical School on Bridgeton Ave., Deerfield Township.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 138 ft, screened 133 to 138 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 82.14 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 0.51 ft above land surface.

REMARKS.--Water level is occasionally affected by pumping from nearby wells.

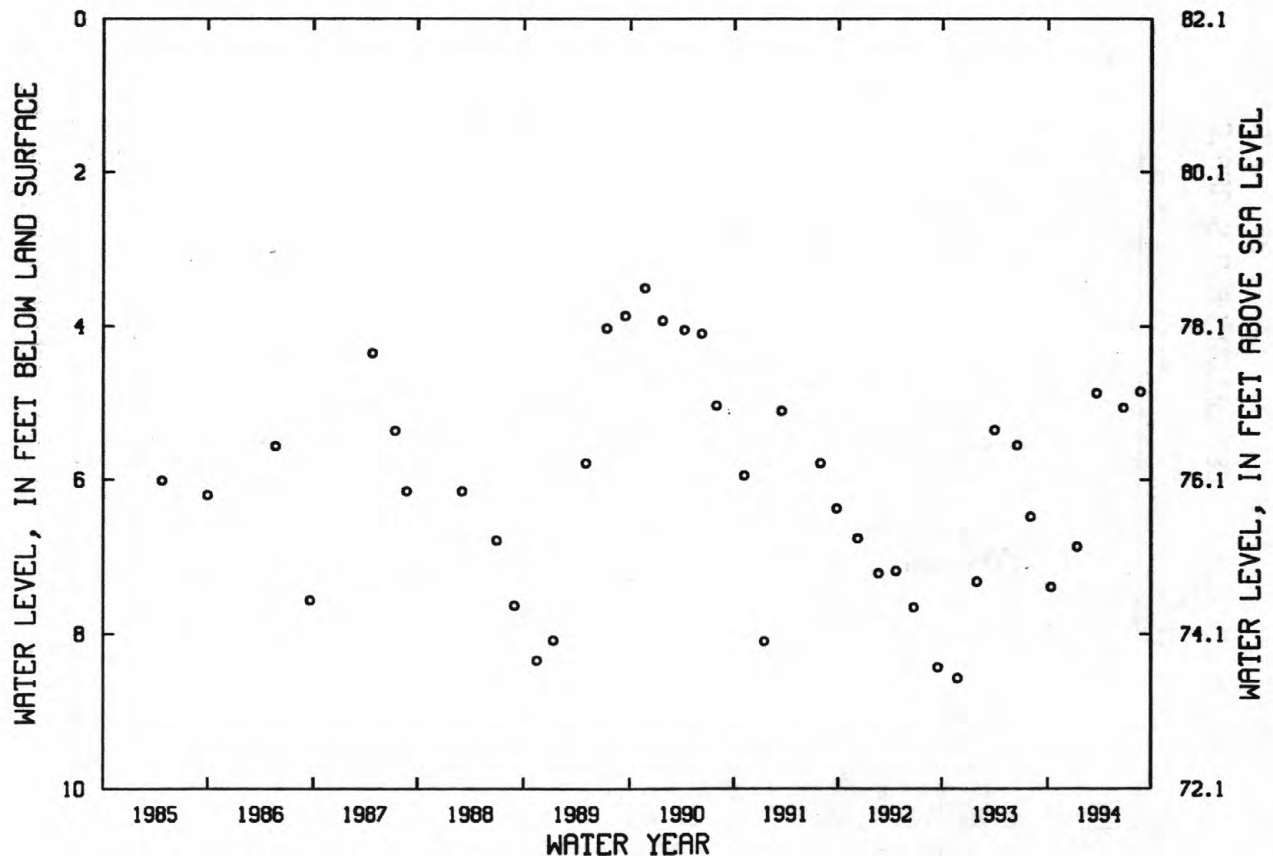
PERIOD OF RECORD.--Mar. 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.31 ft below land surface, Feb. 8, 1973; lowest, 8.57 ft below land surface, Nov. 23, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	7.39	MAR 23	4.87	AUG 25	4.85
JAN 13	6.87	JUN 27	5.06		

NJ-WRD WELL NO. 11-0043



CUMBERLAND COUNTY

392733075092401. Local I.D., Vocational School 3 Obs. NJ-WRD Well Number, 11-0044.

LOCATION.--Lat 39°27'32", long 75°09'29", Hydrologic Unit 02040206, next to the Cumberland County Vocational and Technical School on Bridgeton Ave., Deerfield Township.

Owner: Cumberland County.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 376 ft, screened 361 to 376 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 81.95 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 0.31 ft above land surface.

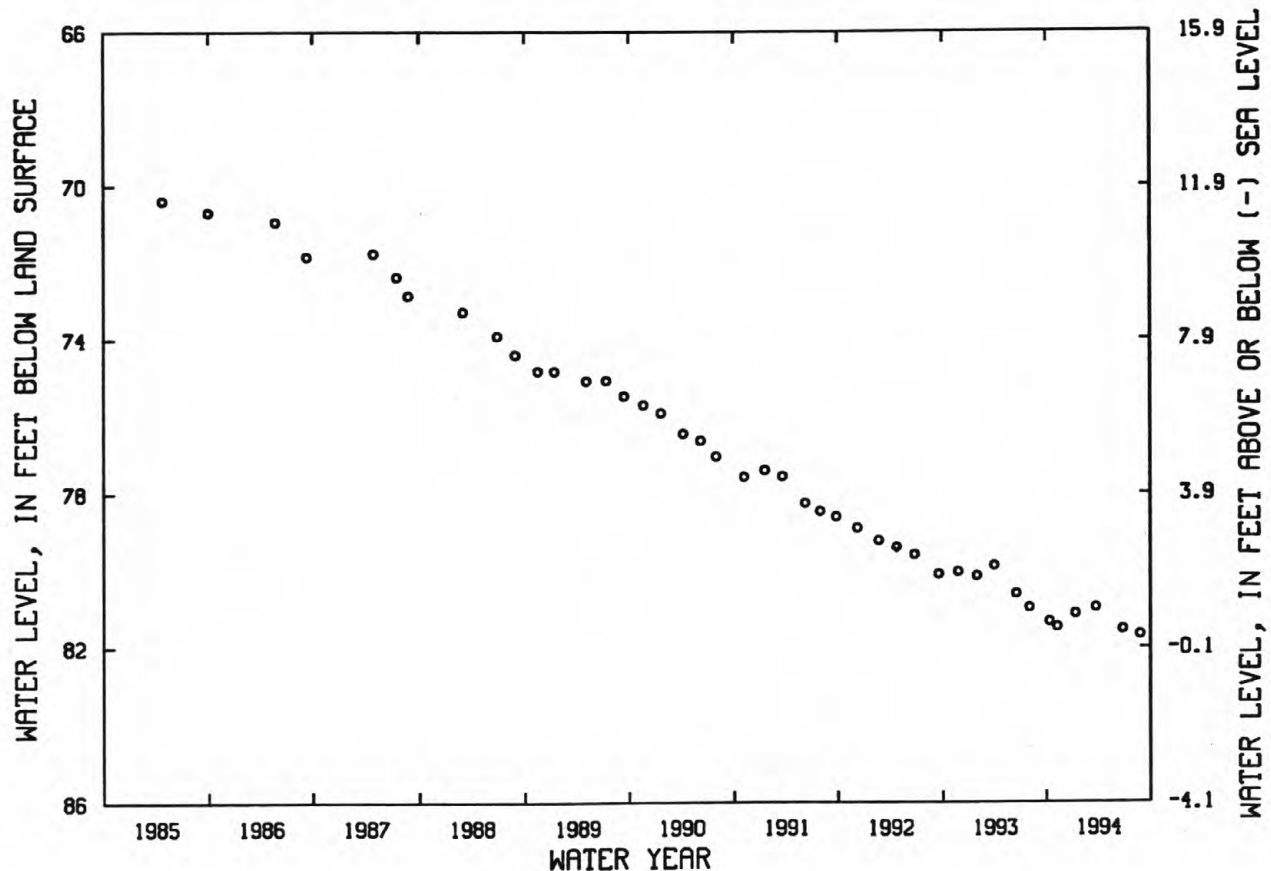
PERIOD OF RECORD.--July 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.79 ft below land surface, July 31, 1972; lowest, 81.67 ft below land surface, Aug. 25, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	81.33	JAN 11	81.13	JUN 27	81.53
NOV 9	81.47	MAR 23	80.97	AUG 25	81.67

NJ-WRD WELL NO. 11-0044



CUMBERLAND COUNTY

392920074570001. Local I.D., Natural Area 1 Obs. NJ-WRD Well Number, 11-0237.

LOCATION.--Lat 39°29'20", long 74°57'00", Hydrologic Unit 02040206, in the Willow Oak Natural Area, about 600 ft east of the intersection of Maple Ave. and Lincoln Ave., Vineland City.

Owner: Cumberland County.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 81 ft, screened 76 to 81 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 88 ft above sea level, by altimeter.

Measuring point: Top of base of aluminum locking cap, 0.98 ft above land surface.

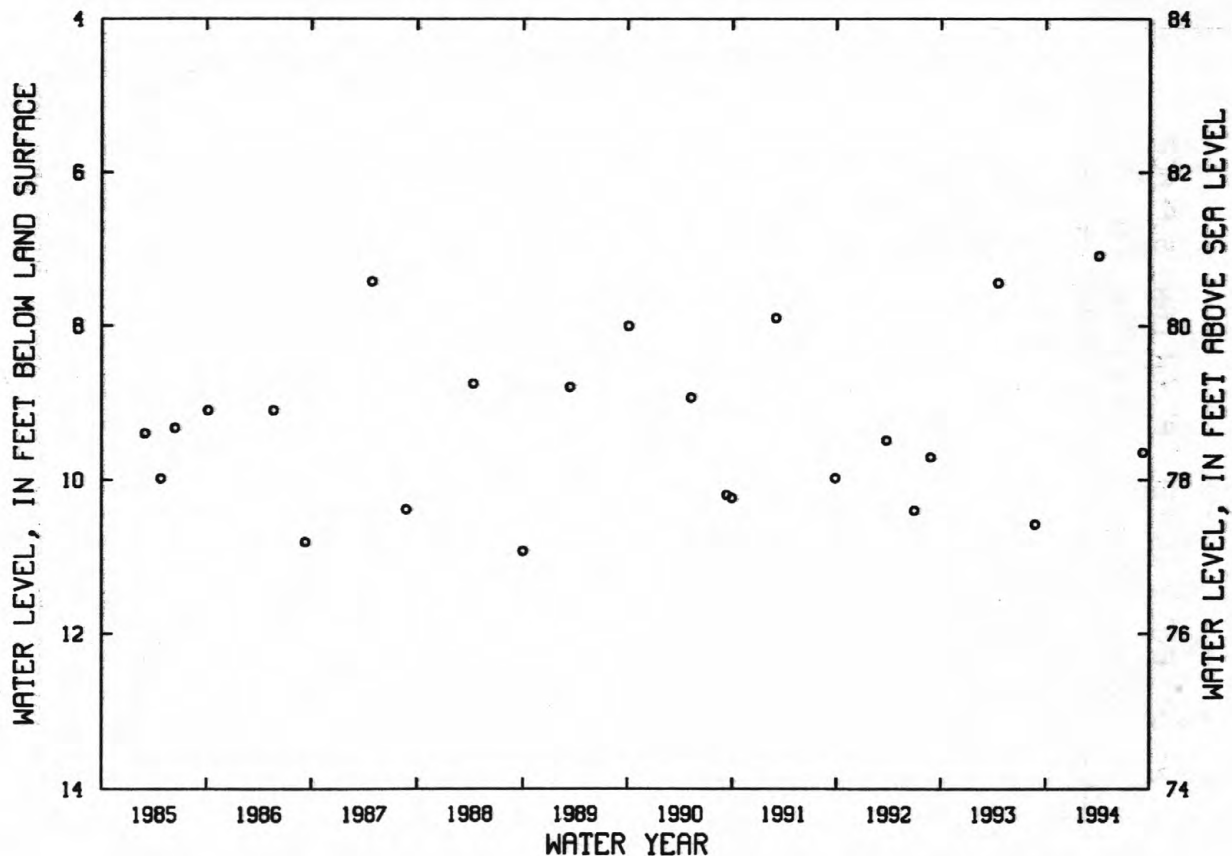
PERIOD OF RECORD.--Apr. 1972 to current year. Records for 1972 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.09 ft below land surface, Apr. 5, 1994; lowest, 11.05 ft below land surface, Sept. 20, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 5	7.09	SEP 8	9.64

NJ-WRD WELL NO. 11-0237



ESSEX COUNTY

404347074193301. Local I.D., Christ Church 2 Obs. NJ-WRD Well Number, 13-0095.

LOCATION.--Lat 40°43'47", long 74°19'33", Hydrologic Unit 02030104, at Christ Church, about 200 ft east of Highland Ave., Millburn Township.

Owner: State of New Jersey - Christ Church.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 200 ft, screened 180 to 200 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 276.9 ft above sea level.

Measuring point: Top of casing, 0.67 ft below land surface.

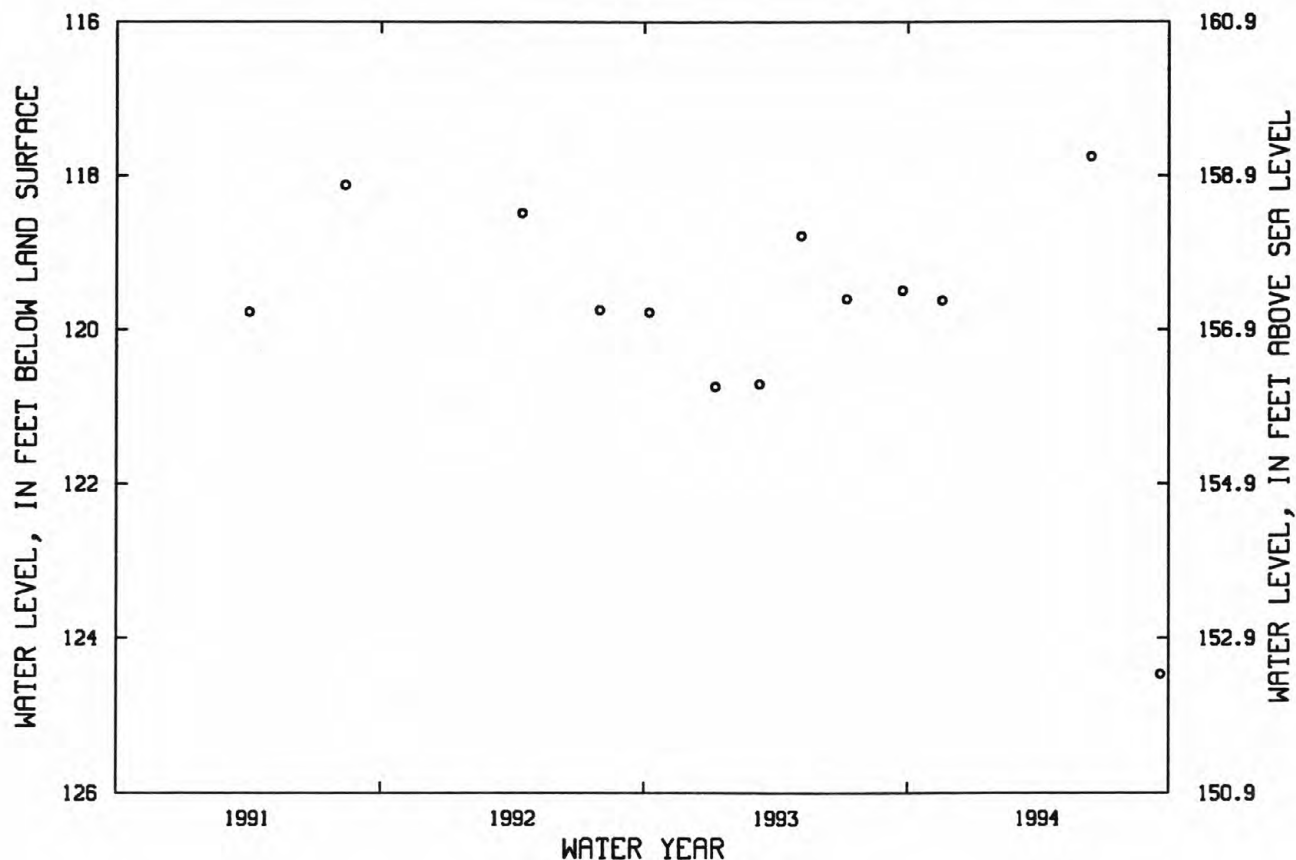
PERIOD OF RECORD.--Apr. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 117.75 ft below land surface, June 15, 1994; lowest, 124.47 ft below land surface, Sept. 20, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 19	119.62	JUN 15	117.75	SEP 20	124.47

NJ-WRD WELL NO. 13-0095



ESSEX COUNTY

404452074211601. Local I.D., Canoe Brook 30 Obs. NJ-WRD Well Number, 13-0013.

LOCATION.--Lat 40°44'52", long 74°21'16", Hydrologic Unit 02030103, about 0.3 mi north of the New Jersey - American Water Company's Canoe Brook pumping station, near Chatham, Millburn Township.

Owner: New Jersey - American Water Company.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 130 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 170.00 ft above sea level.

Measuring point: Top of well shelter shelf, 6.57 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

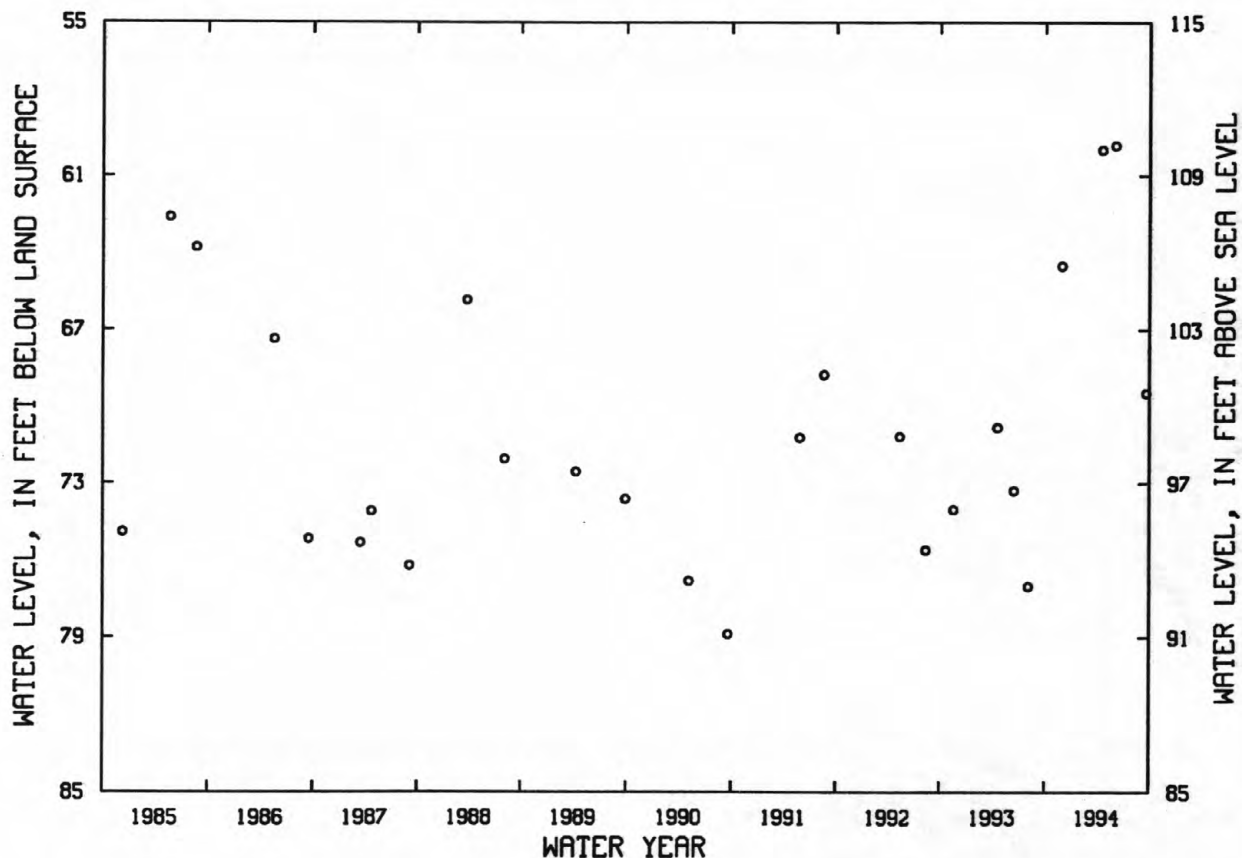
PERIOD OF RECORD.--Sept. 1925 to current year. Records for 1985 to 1989 are unpublished and are available in files of the New Jersey District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.25 ft below land surface, Aug. 25, 1931; lowest, 86.70 ft below land surface, Oct. 23, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29	64.51	APR 19	59.99	JUN 3	59.82	SEP 20	69.49

NJ-WRD WELL NO. 13-0013



ESSEX COUNTY

404454074202101. Local I.D., Neutral Zone Obs. NJ-WRD Well Number, 13-0014.

LOCATION.--Lat 40°44'54", long 74°20'21", Hydrologic Unit 02030103, about 1,500 ft south of the East Orange Water Department pumping station, Parsonage Hill Rd., Millburn Township.

Owner: East Orange Water Department.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 64 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 179.37 ft above sea level.

Measuring point: Top of casing, 3.50 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

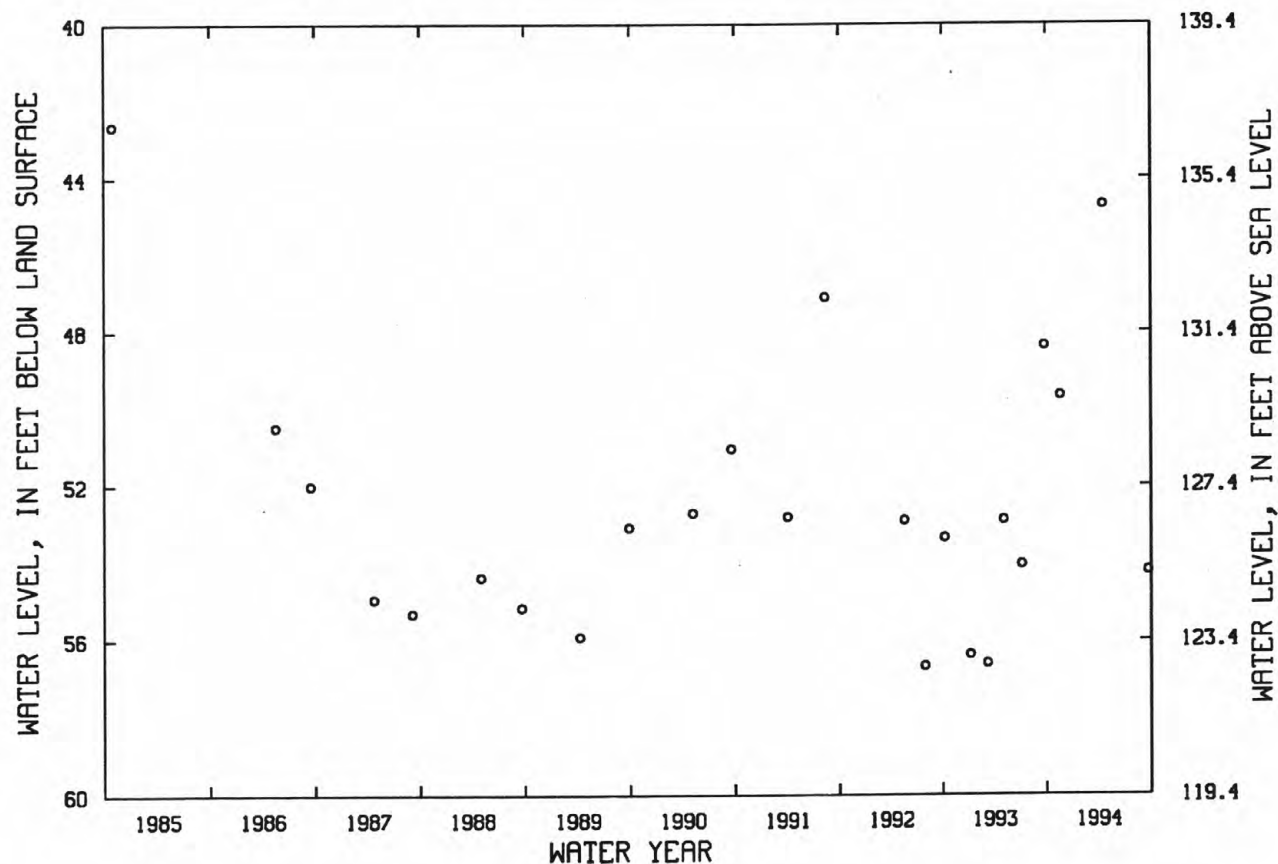
PERIOD OF RECORD.--Nov. 1926 to Oct. 1984, May 1986 to current year. Records for 1975 to 1984 and 1986 to 1989 are unpublished and are available in files of the New Jersey District office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.57 ft below land surface, Oct. 25, 1927; lowest, 63.12 ft below land surface, Apr. 10, 1967.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 19	49.65	APR 19	44.70	SEP 20	54.20

NJ-WRD WELL NO. 13-0014



ESSEX COUNTY

404455074203201. Local I.D., East Orange 28 Obs. NJ-WRD Well Number, 13-0094.

LOCATION.--Lat 40°44'55", long 74°20'32", Hydrologic Unit 02030103, at East Orange Water Company, JFK Blvd. and Parsonage Hill Rd., Millburn Township.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Towaco Formation of Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 298 ft, open hole 112 to 298 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Apr. 1991 to Apr. 1992.

DATUM.--Land surface is 184.7 ft above sea level.

Measuring point: Top of recorder shelf, 2.65 ft above land surface.

REMARKS.-- Water level is affected by nearby pumping.

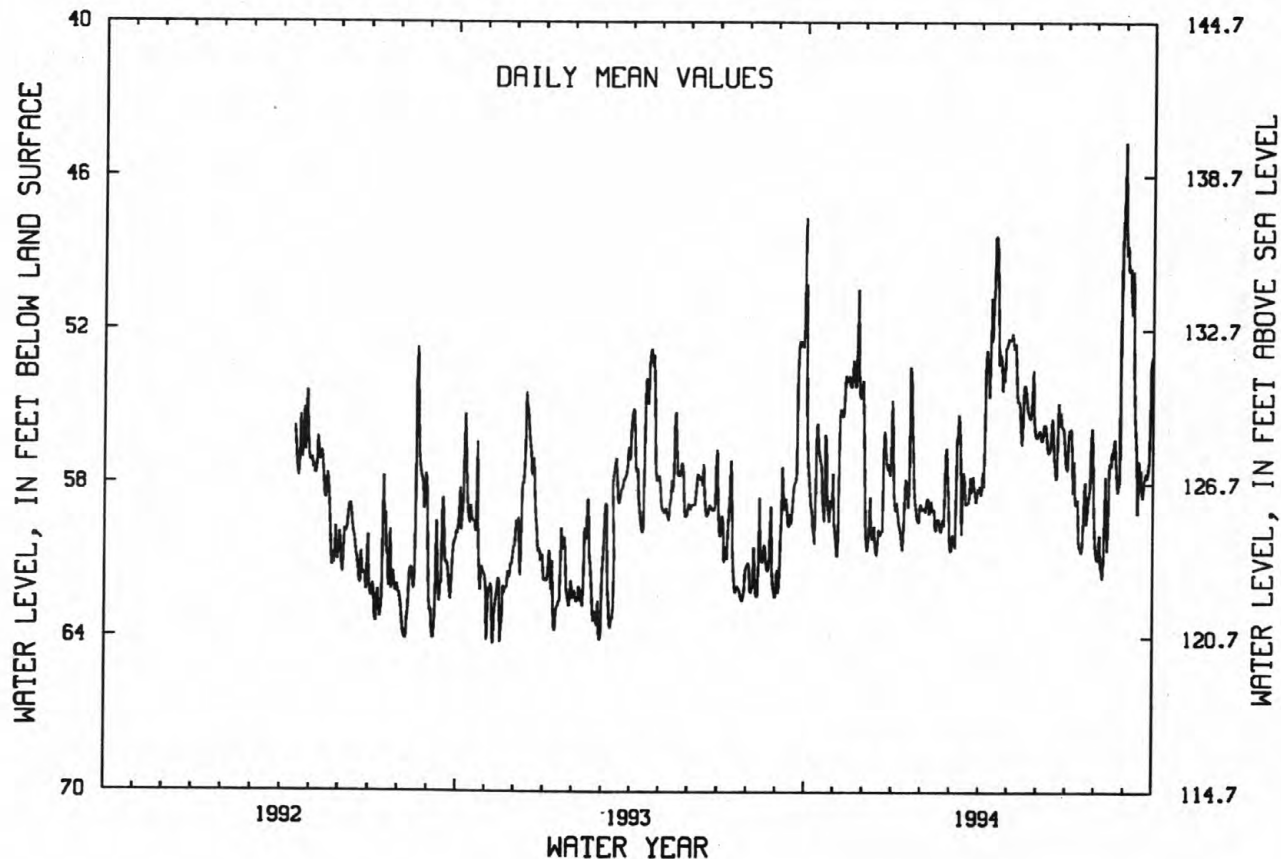
PERIOD OF RECORD.--Apr. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.38 ft below land surface, Aug. 31, 1994; lowest, 64.67 ft below land surface, Nov. 9, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.39	55.37	60.24	59.13	58.57	60.36	58.09	52.12	56.32	55.88	60.00	49.70
10	60.34	54.61	60.01	60.60	59.05	55.31	53.11	54.57	56.19	58.47	59.36	53.84
15	56.90	53.80	60.35	58.31	59.37	57.55	51.05	56.47	55.99	60.46	57.41	57.09
20	59.46	53.65	59.87	55.72	59.75	58.74	51.00	54.69	57.80	58.31	56.46	58.39
25	59.47	53.75	57.31	59.37	56.59	57.71	54.36	55.25	55.19	58.44	58.01	57.50
EOM	59.91	55.30	55.83	58.98	60.18	58.35	52.52	56.18	57.07	60.24	44.66	53.06
MEAN	57.92	54.91	58.75	58.49	58.98	58.37	53.33	54.39	56.20	58.26	57.18	54.55
WTR YR 1994 MEAN 56.78 HIGH 42.38 AUG 31 LOW 61.81 AUG 8												

NJ-WRD WELL NO.13-0094



ESSEX COUNTY

404455074203202. Local I.D., East Orange Shallow Obs. NJ-WRD Well Number, 13-0096.

LOCATION.--Lat 40°44'55", long 74°20'32", Hydrologic Unit 02030103, at East Orange Water Company, JFK Blvd. and Parsonage Hill Rd., Millburn Township.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 84 ft, screened 79 to 84 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Apr. 1991 to Apr. 1992.

DATUM.--Land surface is 184.7 ft above sea level.

Measuring point: Top of recorder shelf, 2.40 ft above land surface.

REMARKS.-- Water level is affected by nearby pumping.

PERIOD OF RECORD.--Apr. 1991 to current year.

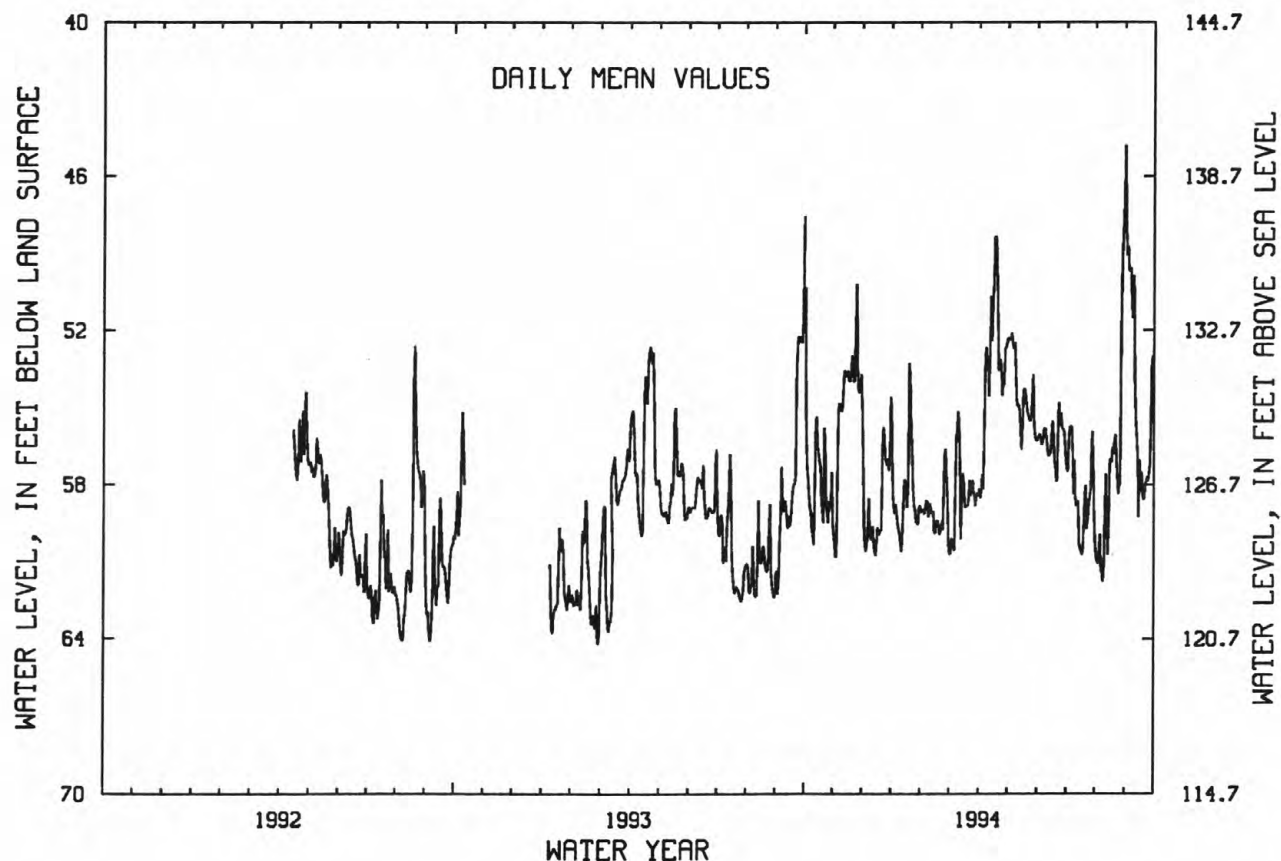
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.42 ft below land surface, Aug. 31, 1994; lowest, 64.35 ft below land surface, Sept. 5, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.43	55.09	60.19	59.16	58.61	60.44	58.18	52.10	56.43	55.74	59.93	49.69
10	60.32	54.35	59.98	60.60	59.09	55.16	53.02	54.70	56.29	58.48	59.23	53.97
15	56.81	53.56	60.25	58.28	59.41	57.56	50.93	56.61	56.04	60.49	57.19	57.02
20	59.47	53.42	59.78	55.86	59.78	58.82	51.19	54.80	57.87	58.35	56.26	58.47
25	59.47	53.53	57.08	59.41	56.60	57.82	54.53	55.31	55.21	58.50	58.03	57.58
EOM	59.91	55.10	55.66	59.01	60.29	58.44	52.49	56.28	57.10	60.36	44.80	52.97
MEAN	57.88	54.68	58.64	58.50	59.02	58.41	53.35	54.45	56.27	58.29	57.17	54.59

WTR YR 1994 MEAN 56.77 HIGH 42.42 AUG 31 LOW 61.90 AUG 8

NJ-WRD WELL NO.13-0096



GLOUCESTER COUNTY

393246075012701. Local I.D., Newfield 2-A Obs. NJ-WRD Well Number, 15-0372.

LOCATION.--Lat 39°32'38", long 75°00'44", Hydrologic Unit 02040206, about 1,000 ft south of the intersection of Gorgo Lane and Catawba Ave., Newfield Borough.

Owner: Newfield Water Department.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, depth 154 ft, screened 129 to 149 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 120 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 2.80 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Jan. 1987 to June 1989, Aug. 1994 to current year. Records for 1987 to 1989 are unpublished and are available in files of the New Jersey District Office.

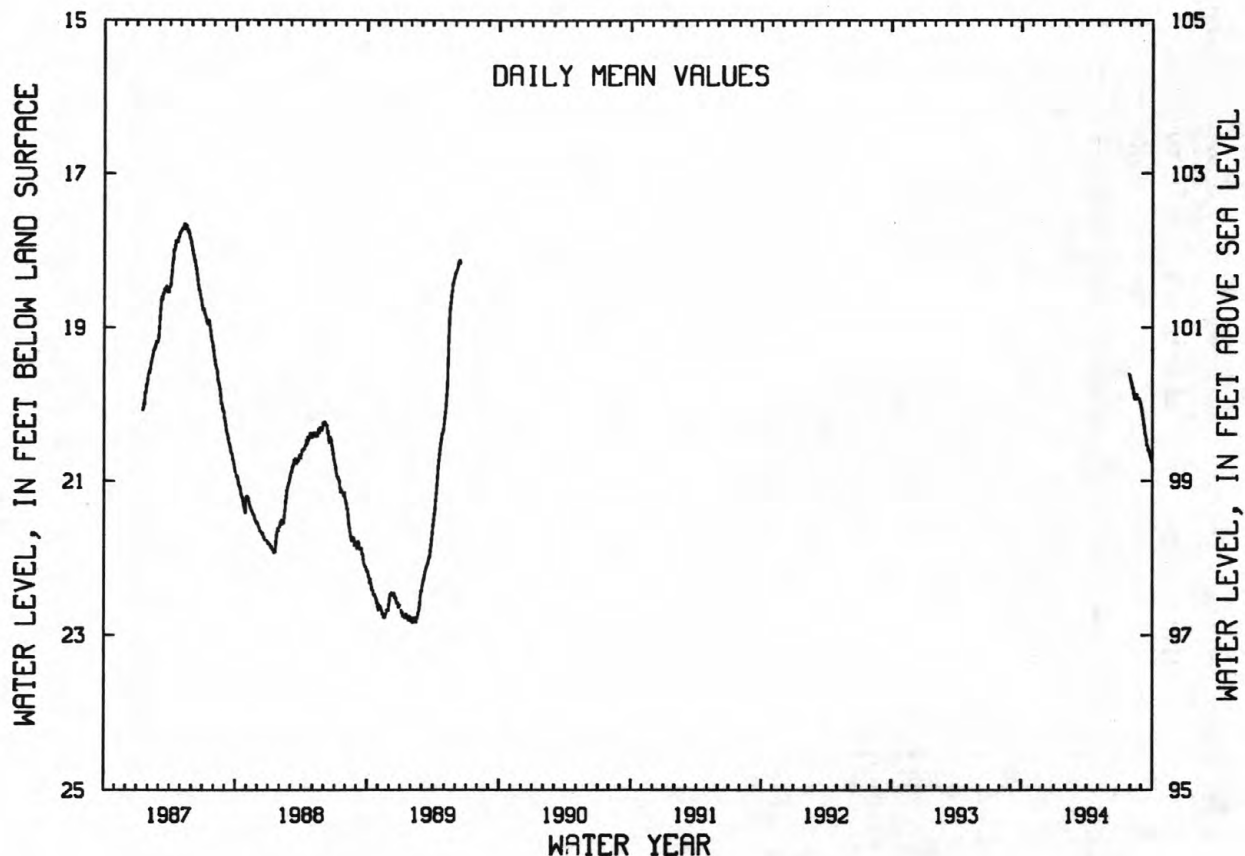
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.61 ft below land surface, May 10-12, 1987; lowest, 22.86 ft below land surface, Feb. 4, 13-14, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	19.76	20.20
10	---	---	---	---	---	---	---	---	---	---	19.89	20.38
15	---	---	---	---	---	---	---	---	---	---	19.92	20.53
20	---	---	---	---	---	---	---	---	---	---	19.94	20.59
25	---	---	---	---	---	---	---	---	---	---	19.93	20.65
EOM	---	---	---	---	---	---	---	---	---	19.67	20.05	20.77
MEAN	---	---	---	---	---	---	---	---	---	---	19.89	20.47

WTR YR 1994 HIGH 19.55 JUL 28 LOW 20.83 SEP 29-30

NJ-WRD WELL NO.15-0372



GLOUCESTER COUNTY

394354075025901. Local I.D., WTMUA Monitoring 1 Obs. NJ-WRD Well Number, 15-1033.

LOCATION.--Lat 39°43'54", long 75°02'59", Hydrologic Unit 02040202, next to the Washington Township MUA water tank at the intersection of White Birches Rd. and Rt. 655 (Fries Mill Rd.), Washington Township.

Owner: Washington Township Municipal Utilities Authority.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 54 ft, screened 44 to 54 ft.

INSTRUMENTATION.--Digital data logger with differential pressure transducer--60 minute recording interval.

Daily mean recorded from Aug. 1989 to April 21, 1992; water level recorded hourly April 22, 1992 to present.

DATUM.--Land surface is 150 ft above sea level, from topographic map.

Measuring point: Top of outer protective casing, 2.50 ft above land surface.

PERIOD OF RECORD.--Aug. 1989 to current year.

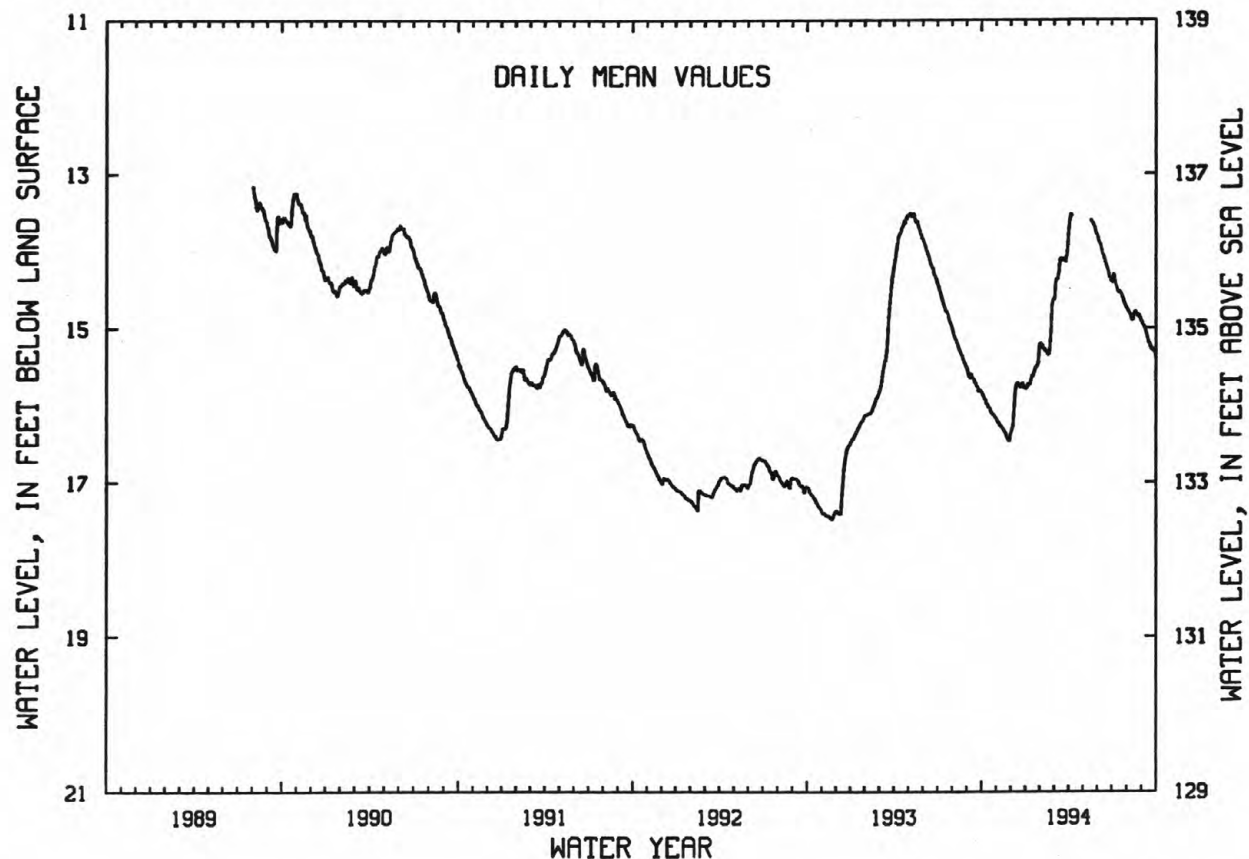
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.14 ft below land surface, Aug. 2, 1989; lowest, 17.48 ft below land surface, Nov. 21-23, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.88	16.22	16.26	15.75	15.22	14.39	13.56	---	13.90	14.35	14.84	15.03
10	15.96	16.27	15.80	15.72	15.30	14.32	---	---	13.99	14.50	14.90	15.13
15	16.02	16.31	15.70	15.61	15.32	14.10	---	---	14.09	14.58	14.89	15.23
20	16.09	16.37	15.77	15.53	15.28	14.13	---	13.63	14.20	14.60	14.86	15.30
25	16.12	16.45	15.70	15.49	14.70	14.11	---	---	14.31	14.68	14.88	15.34
EOM	16.16	16.36	15.79	15.19	14.63	13.85	---	13.79	14.44	14.79	14.96	15.41
MEAN	16.02	16.32	15.87	15.58	15.15	14.21	---	---	14.10	14.57	14.88	15.21

WTR YR 1994 MEAN 15.10 HIGH 13.49 APR 6 LOW 16.47 NOV 26-27

NJ-WRD WELL NO.15-1033



GLOUCESTER COUNTY

394652075100401. Local I.D., Mantua Shallow Obs. NJ-WRD Well Number, 15-0741.

LOCATION.--Lat 39°46'52", long 75°10'04", Hydrologic Unit 02040202, at the Township of Mantua Road Department off Main Street (County Rt. 553), Mantua Township.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 313 ft, screened 293 to 313 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 82 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 4.00 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

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

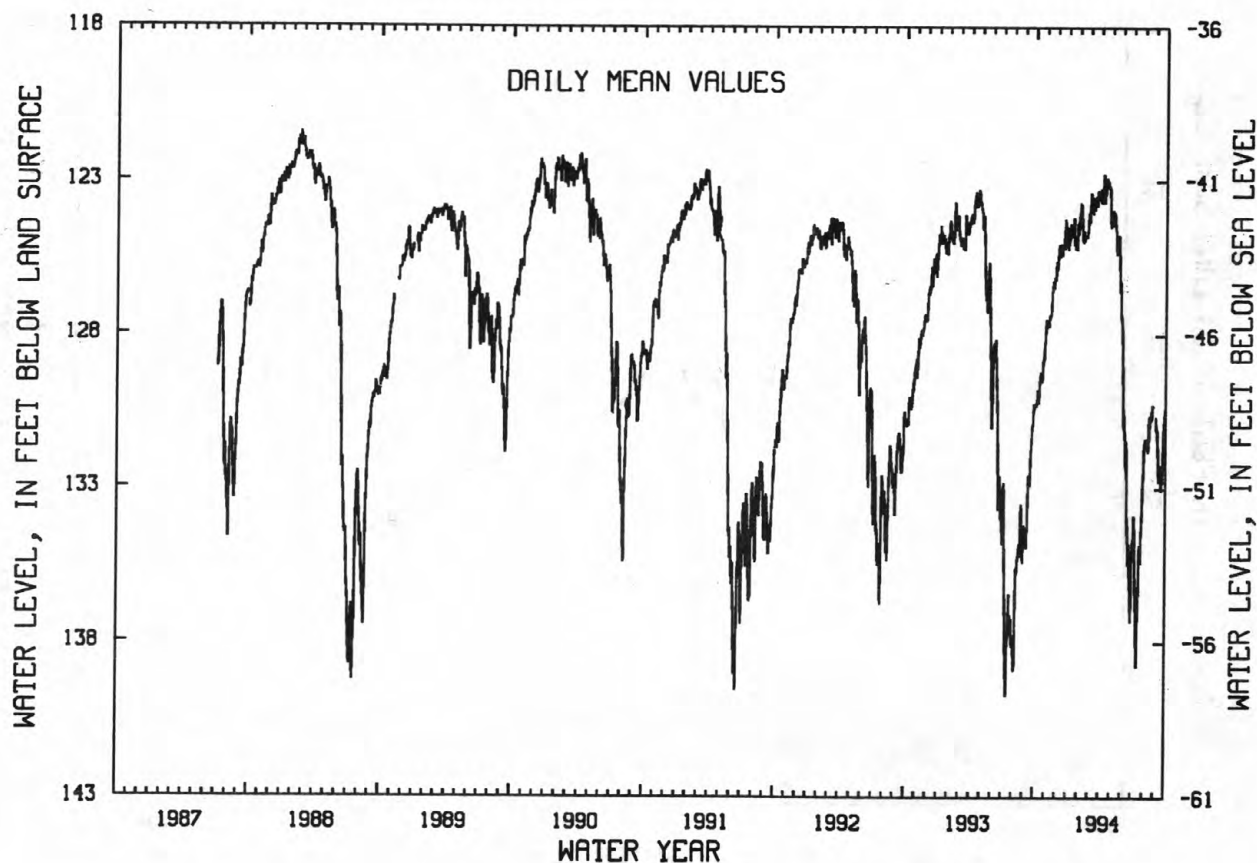
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 121.20 ft below land surface, Feb. 20, 1988; lowest, 139.85 ft below land surface, July 14, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	130.25	127.55	125.07	124.41	123.76	123.74	123.40	123.94	130.97	133.88	131.43	131.12
10	130.18	127.36	125.26	124.81	124.99	123.52	123.28	124.29	132.18	136.52	131.72	132.46
15	129.41	127.06	125.10	124.55	124.79	123.67	122.95	125.37	134.08	137.31	130.66	132.70
20	129.25	126.25	125.20	124.77	124.83	123.71	123.05	124.89	134.99	134.82	130.76	132.55
25	128.79	126.19	124.61	124.38	124.31	123.49	123.26	126.60	136.11	134.26	130.32	130.98
EOM	127.49	125.86	124.92	124.22	124.33	123.25	124.12	127.63	134.85	132.09	---	130.39
MEAN	129.40	126.86	125.07	124.65	124.50	123.65	123.40	125.19	133.29	135.22	131.10	131.76

WTR YR 1994 MEAN 127.80 HIGH 122.39 APR 16 LOW 139.36 JUL 14

NJ-WRD WELL NO.15-0741



GLOUCESTER COUNTY

394652075100402. Local I.D., Mantua Deep Obs. NJ-WRD Well Number, 15-0742.

LOCATION.--Lat 39°46'52", long 75°10'04", Hydrologic Unit 02040202, at the Township of Mantua Road Department off Main Street (County Rt. 553), Mantua Township.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 777 ft, screened 757 to 777 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 84 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 4.20 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

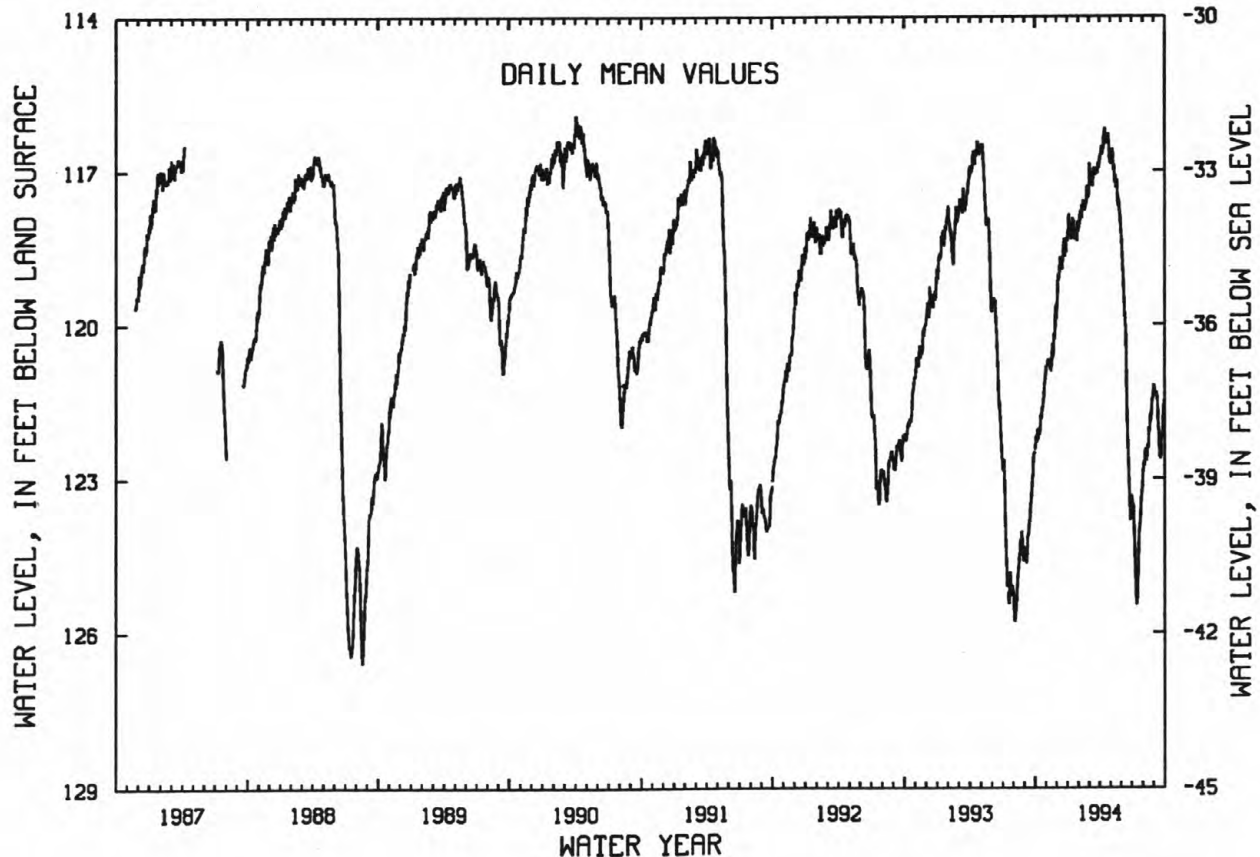
PERIOD OF RECORD.--Nov. 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 115.89 ft below land surface, Apr. 4, 1990; lowest, 126.62 ft below land surface, Aug. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	122.17	120.81	119.02	118.10	117.79	117.07	116.66	116.59	118.72	123.50	122.66	121.39
10	122.07	120.68	118.86	118.35	117.93	117.04	116.51	116.95	119.52	124.41	122.61	121.42
15	122.10	120.71	118.74	118.05	117.66	116.95	116.29	117.15	120.23	125.44	122.34	122.26
20	121.79	120.38	118.68	118.33	117.69	117.06	116.33	117.20	122.21	124.52	122.07	122.62
25	121.45	120.30	118.49	118.24	117.44	116.95	116.28	117.62	123.24	123.82	121.73	122.09
EOM	120.85	119.87	118.38	118.15	117.54	116.88	116.85	118.08	123.69	123.18	121.27	121.63
MEAN	121.83	120.53	118.83	118.16	117.72	117.06	116.50	117.18	120.92	124.13	122.19	121.83
WTR YR 1994	MEAN 119.75	HIGH 116.11	APR 16	LOW 125.48	JUL 16							

NJ-WRD WELL NO.15-0742



GLOUCESTER COUNTY

394808075172401. Local I.D., Stefka 1 Obs. NJ-WRD Well Number, 15-0712.

LOCATION.--Lat 39°48'08", long 75°17'24", Hydrologic Unit 02040202, near the intersection of Swedesboro and Tomlin Station roads, next to Pargey Creek, on land owned by Mr. William Stefka, Greenwich Township.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 295 ft, screened 275 to 290 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 6.50 ft above sea level.

Measuring point: Top of recorder shelf, 2.20 ft above land surface.

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

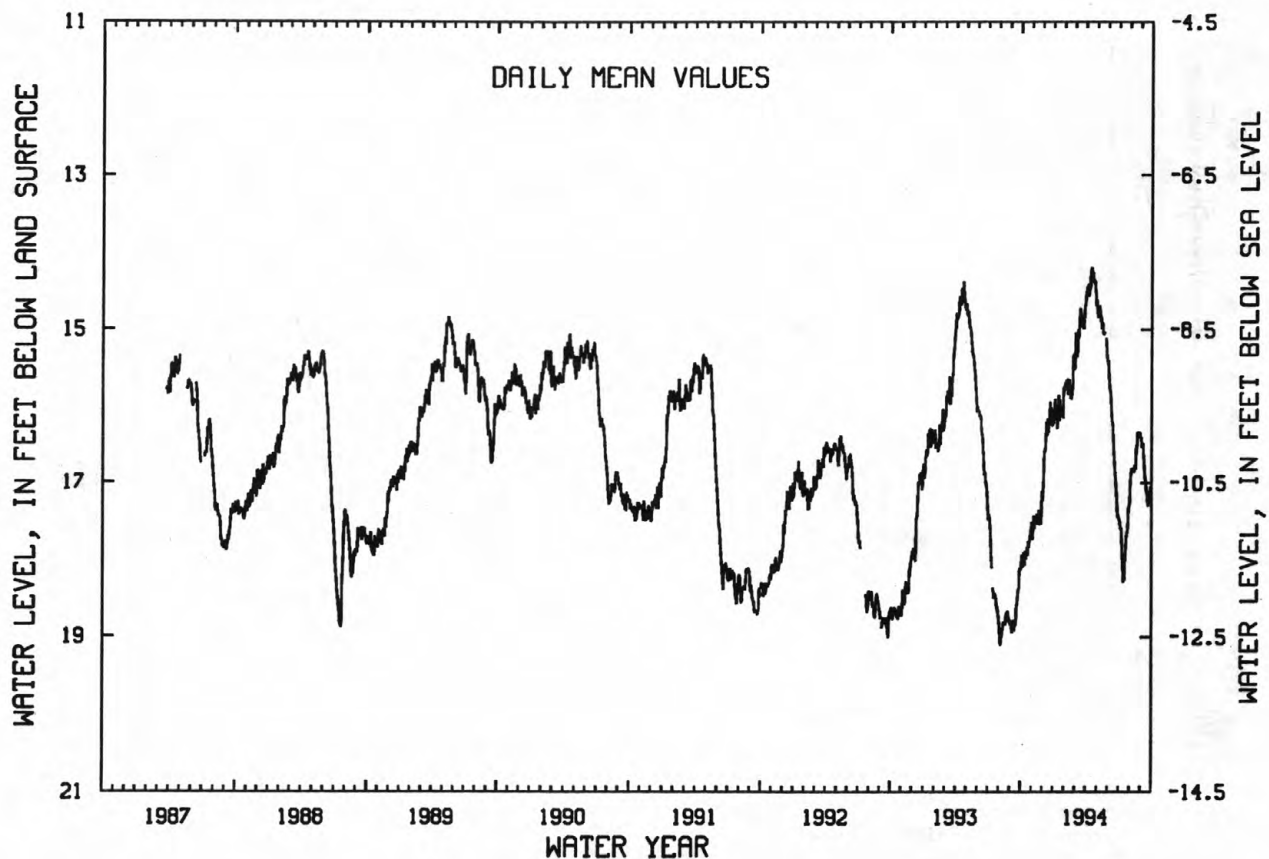
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.15 ft below land surface, Apr. 16, 1994; lowest, 19.14 ft below land surface, Aug. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.03	17.47	16.58	16.07	15.66	15.23	14.48	14.70	15.76	17.59	16.82	16.50
10	18.01	17.50	16.35	16.29	15.85	15.00	14.41	14.83	16.10	17.94	16.83	16.79
15	17.97	17.41	16.17	15.99	15.76	14.74	14.26	14.97	16.38	18.25	16.77	17.06
20	17.87	17.36	16.21	16.14	15.85	14.95	14.30	15.05	16.85	17.88	16.51	17.29
25	17.75	17.54	16.02	16.11	15.36	14.89	14.39	---	17.22	17.63	16.38	17.17
EOM	17.52	17.21	16.23	15.76	15.52	14.61	14.65	15.42	17.44	17.26	16.40	17.13
MEAN	17.88	17.47	16.37	16.04	15.69	14.98	14.42	14.97	16.49	17.76	16.66	16.93

WTR YR 1994 MEAN 16.32 HIGH 14.15 APR 16 LOW 18.33 JUL 14

NJ-WRD WELL NO.15-0712



GLOUCESTER COUNTY

394808075172402. Local I.D., Stefka 2 Obs. NJ-WRD Well Number, 15-0713.

LOCATION.--Lat 39°48'08", long 75°17'24", Hydrologic Unit 02040202, near the intersection of Swedesboro and Tomlin Station roads, next to Pargey Creek, on land owned by Mr. William Stefka, Greenwich Township.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 155 ft, screened 125 to 155 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 5.64 ft above sea level.

Measuring point: Top of recorder shelf, 3.00 ft above land surface.

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

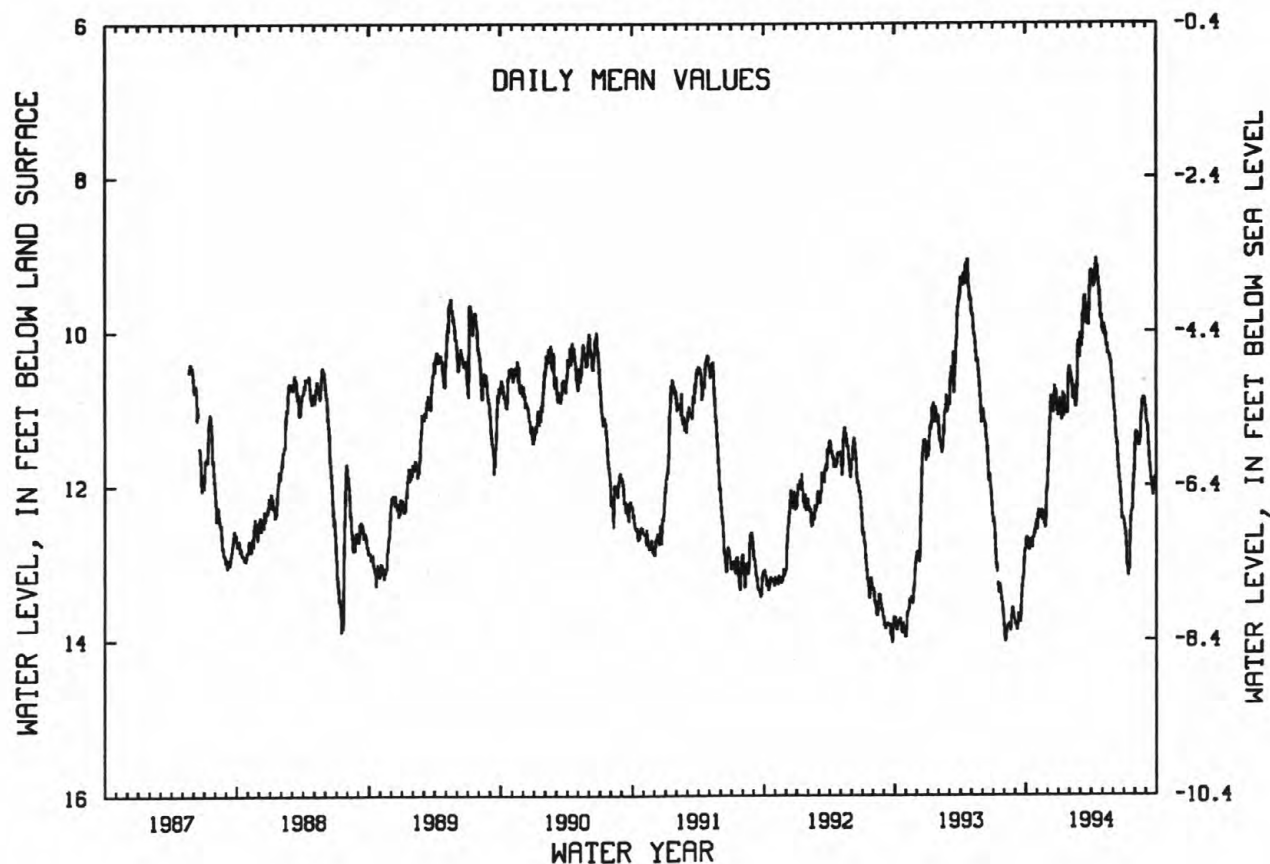
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.00 ft below land surface, Apr. 16, 1994; lowest, 14.07 ft below land surface, Sept. 24, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.76	12.31	11.41	11.06	10.53	10.15	9.31	9.93	11.01	12.57	11.30	11.21
10	12.81	12.33	10.91	11.16	10.88	9.79	9.28	10.01	11.31	13.03	11.39	11.60
15	12.76	12.33	10.86	10.95	10.83	9.53	9.13	10.18	11.62	13.10	11.40	11.91
20	12.76	12.36	10.96	10.98	10.91	9.88	9.23	10.30	11.96	12.50	11.04	12.09
25	12.61	12.55	10.75	11.07	10.17	9.81	9.50	10.38	12.29	12.33	10.87	11.97
EOM	12.44	12.06	11.10	10.45	10.32	9.28	9.80	10.62	12.42	11.82	10.97	11.94
MEAN	12.69	12.38	11.09	10.94	10.64	9.82	9.35	10.20	11.64	12.58	11.20	11.72

WTR YR 1994 MEAN 11.19 HIGH 9.00 APR 16 LOW 13.20 JUL 14

NJ-WRD WELL NO.15-0713



GLOUCESTER COUNTY

394808075172403. Local I.D., Stefka 3 Obs. NJ-WRD Well Number, 15-0727.

LOCATION.--Lat 39°48'08", long 75°17'24", Hydrologic Unit 02040202, near the intersection of Swedesboro and Tomlin Station Roads, next to Pargey Creek, on land owned by Mr. William Stefka, Greenwich Township.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 210 ft, screened 195 to 205 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 5.06 ft above sea level.

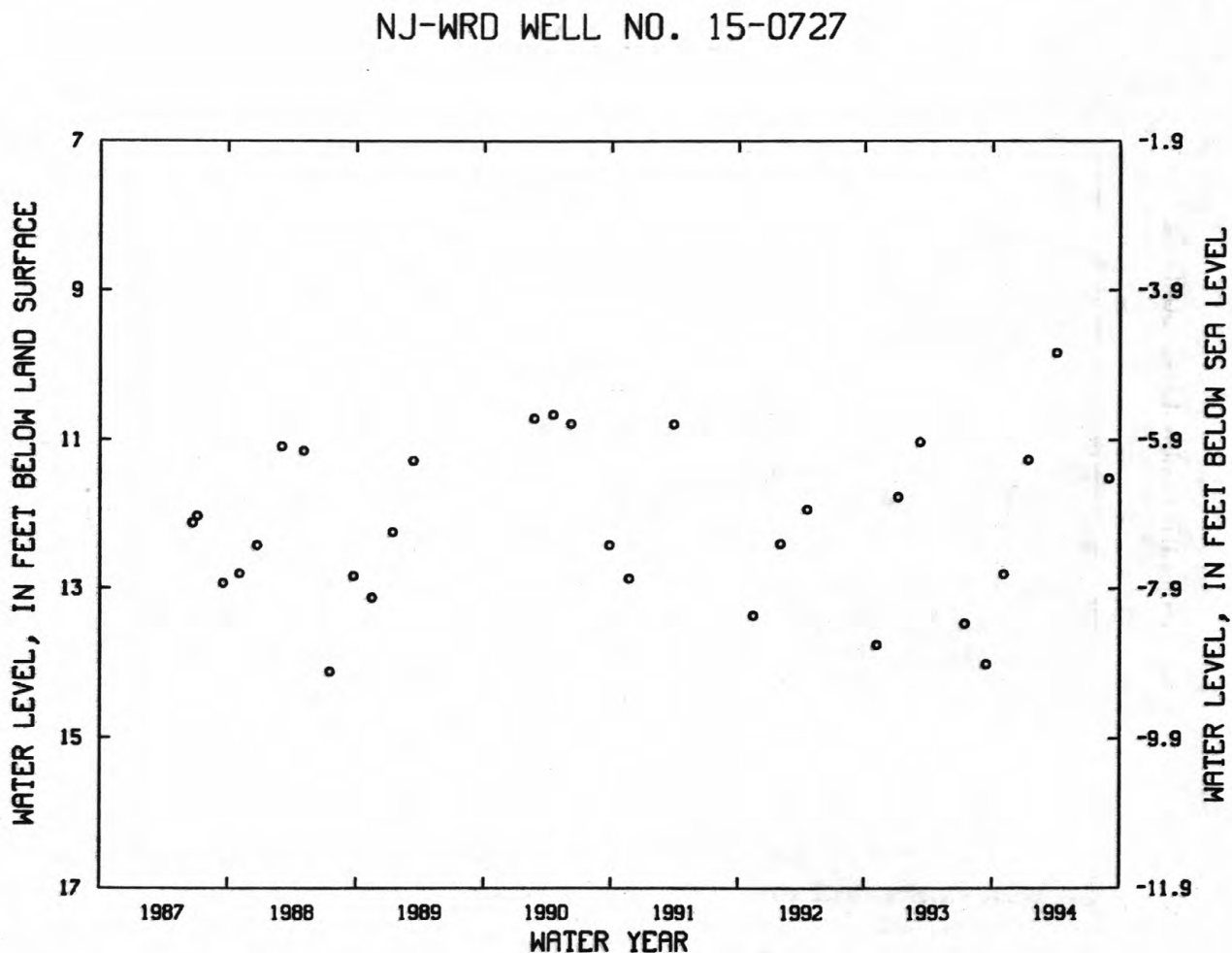
Measuring point: Top of shelter shelf, 2.90 ft above land surface.

PERIOD OF RECORD.--June 1987 to current year. Records for 1987 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.84 ft below land surface, Apr. 4, 1994; lowest, 14.11 ft below land surface, July 17, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 3	12.81	JAN 13	11.27	APR 4	9.84	SEP 1	11.52



GLOUCESTER COUNTY

394808075172404. Local I.D., Stefka 4 Obs. NJ-WRD Well Number, 15-0728.

LOCATION.--Lat 39°48'08", long 75°17'24", Hydrologic Unit 02040202, near the intersection of Swedesboro and Tomlin Station roads, next to Pargey Creek, on land owned by Mr. William Stefka, Greenwich Township.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 56 ft, screened 46 to 56 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 4.46 ft above sea level.

Measuring point: Top of recorder shelf, 3.20 ft above land surface.

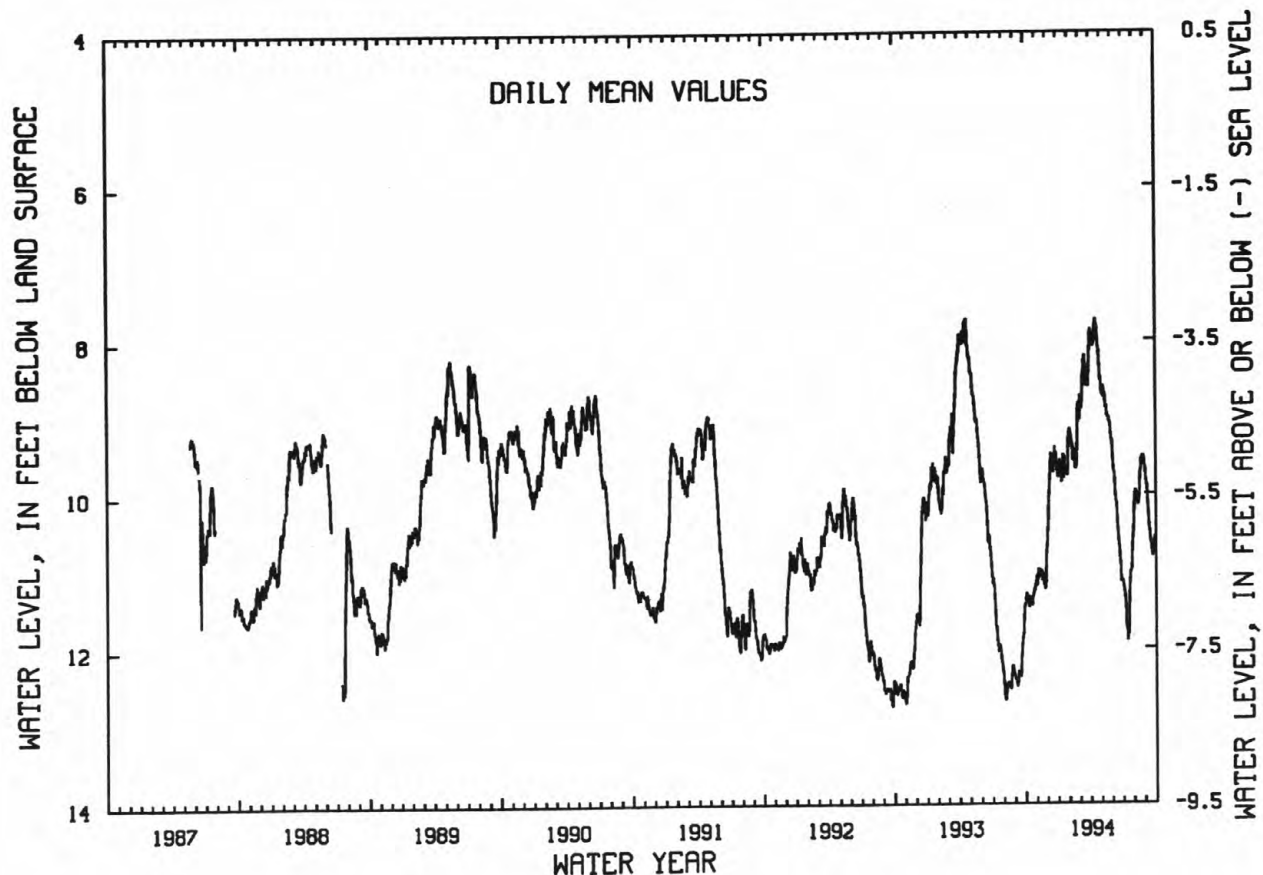
PERIOD OF RECORD.--May 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.70 ft below land surface, Apr. 22, 1993, Apr. 16, 1994; lowest, 12.77 ft below land surface, Sept. 24, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.37	10.99	10.07	9.73	9.23	8.84	7.97	8.63	9.69	11.27	9.95	9.89
10	11.43	10.99	9.56	9.85	9.57	8.48	7.96	8.69	10.01	11.72	10.05	10.26
15	11.39	10.99	9.52	9.62	9.52	8.20	7.80	8.88	10.31	11.83	10.05	10.58
20	11.41	11.03	9.63	9.67	9.63	8.56	7.89	9.00	10.66	11.18	9.69	10.77
25	11.24	11.23	9.45	9.76	8.87	8.49	8.16	9.07	10.96	11.00	9.52	10.67
EOM	11.06	10.71	9.78	9.16	9.02	7.95	8.50	9.32	11.12	10.49	9.63	10.61
MEAN	11.32	11.05	9.76	9.63	9.33	8.51	8.02	8.89	10.33	11.27	9.85	10.39
WTR YR 1994	MEAN 9.87 HIGH 7.70 APR 16 LOW 11.92 JUL 14											

NJ-WRD WELL NO.15-0728



GLOUCESTER COUNTY

394942075131701. Local I.D., Shell 5 Obs. NJ-WRD Well Number, 15-0296.

LOCATION.--Lat 39°49'42", long 75°13'17", Hydrologic Unit 02040202, near the intersection of Mantua Grove Rd. and I-295, West Deptford Township.

Owner: Huntsman Polypropylene Corp.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 327 ft, screened 321 to 326 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 20.76 ft above sea level.

Measuring point: Top of recorder shelf, 2.90 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--June 1962 to current year. Records for 1962 to 1977 are unpublished and are available in files of the New Jersey District Office.

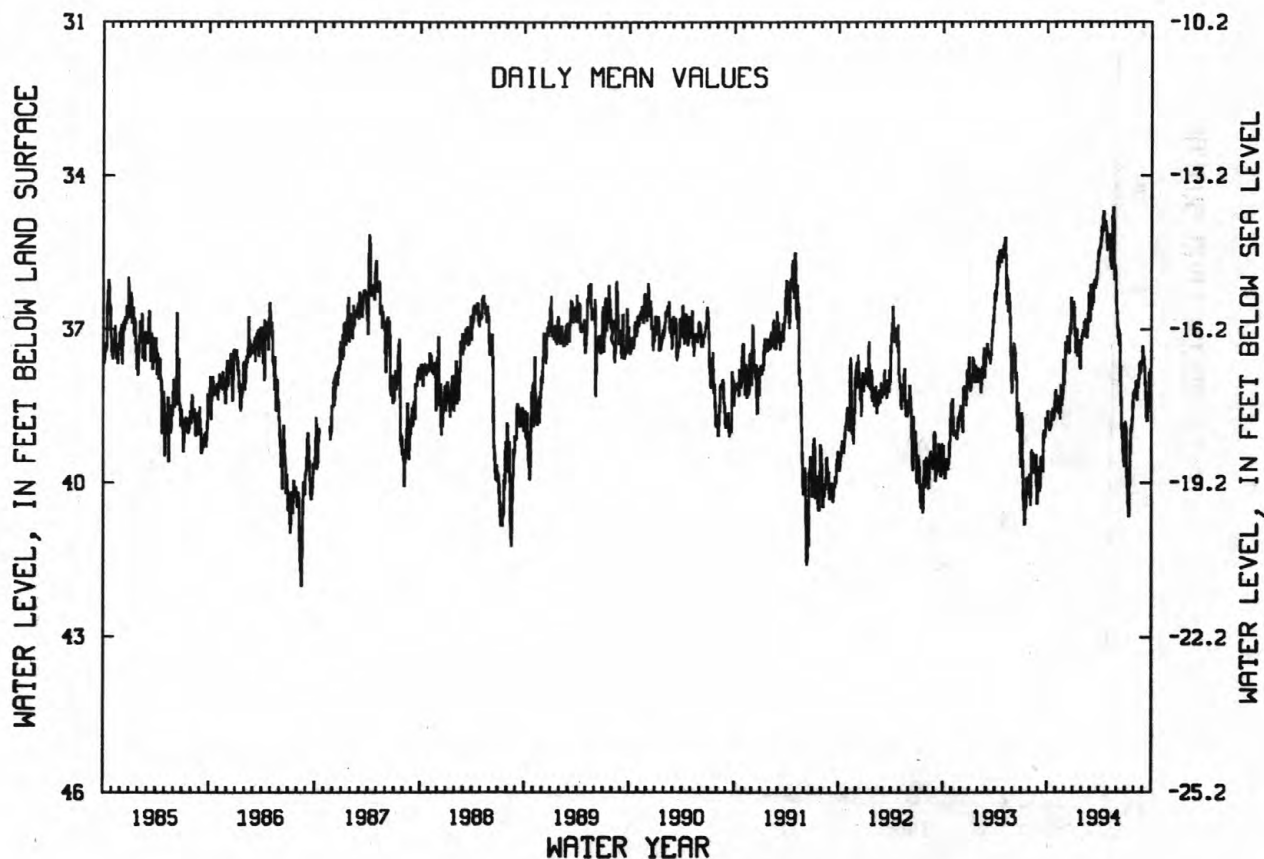
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.75 ft below land surface, Dec. 6, 1962; lowest, 42.50 ft below land surface, Aug. 15, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.78	38.36	37.25	36.99	37.00	36.52	35.40	35.19	37.06	38.95	38.16	37.53
10	38.97	38.59	37.19	37.42	37.15	36.25	35.00	35.54	37.27	40.09	38.31	38.11
15	38.86	38.40	37.16	37.32	37.10	36.07	34.88	35.50	37.88	40.09	37.97	38.78
20	38.64	38.12	37.10	37.23	37.00	36.20	34.98	34.61	38.96	38.93	37.89	38.54
25	38.74	38.31	36.37	37.74	36.65	35.89	35.01	35.97	39.27	38.79	37.80	38.08
EOM	38.18	38.03	36.65	37.17	36.86	35.59	35.38	36.50	39.05	38.33	37.32	38.19
MEAN	38.70	38.35	37.15	37.22	36.95	36.13	35.11	35.46	38.07	39.27	37.97	38.10

WTR YR 1994 MEAN 37.38 HIGH 34.28 MAY 19 LOW 40.96 JUL 14

NJ-WRD WELL NO.15-0296



GLOUCESTER COUNTY

394942075131702. Local I.D., Shell 6 Obs. NJ-WRD Well Number, 15-0297.

LOCATION.--Lat 39°49'42", long 75°13'17", Hydrologic Unit 02040202, near the intersection of Mantua Grove Rd. and I-295, West Deptford Township.

Owner: Huntsman Polypropylene Corp.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 120 ft, screened 113 to 118 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 20.50 ft above sea level.

Measuring point: Top of shelf, 3.30 ft above land surface.

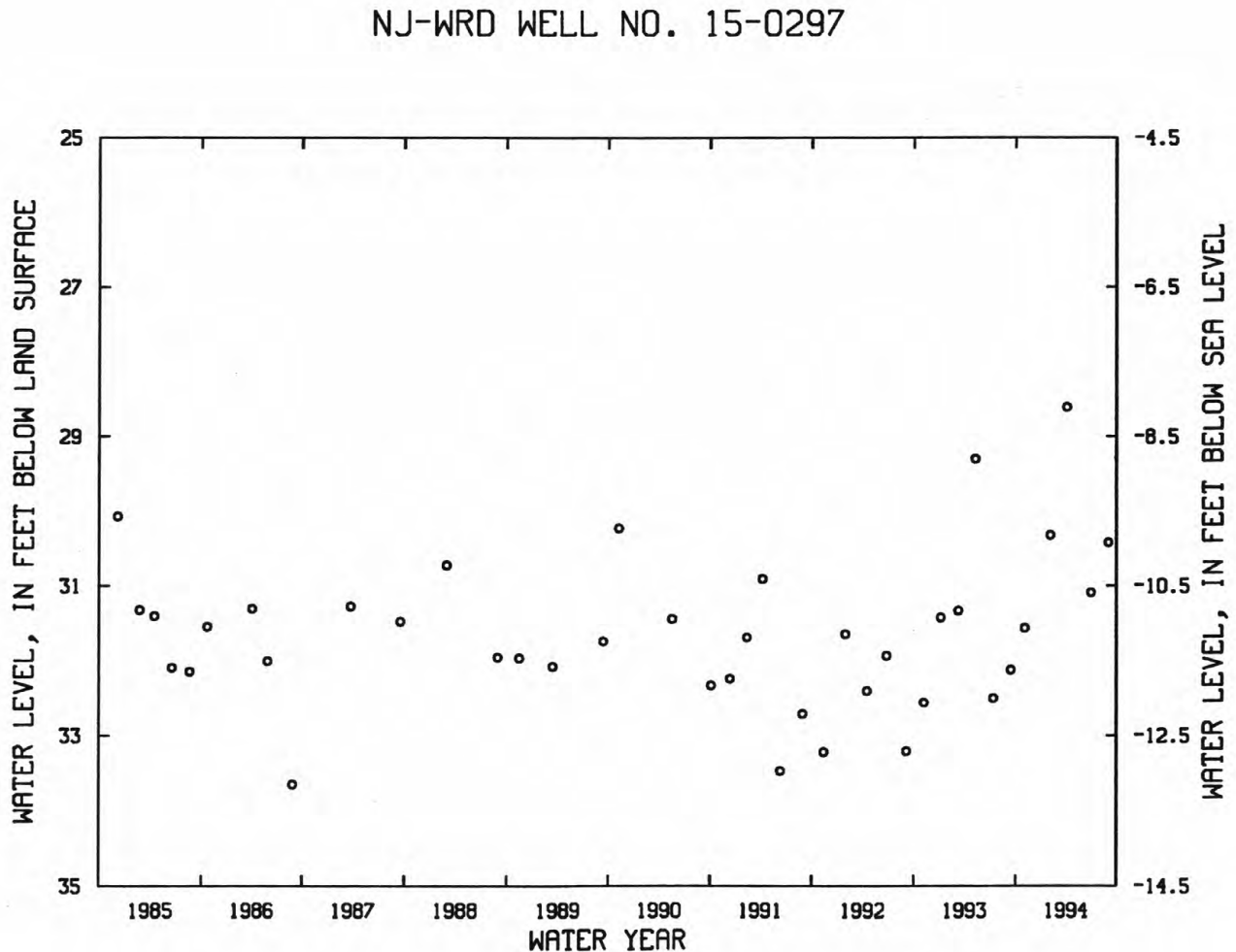
REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--June 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.84 ft below land surface, June 6, 1962; lowest, 33.65 ft below land surface, Aug. 28, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 3	31.56	APR 4	28.61	SEP 1	30.42
FEB 4	30.32	JUL 1	31.09		



GLOUCESTER COUNTY

394957075053001. Local I.D., Deptford Deep Obs. NJ-WRD Well Number, 15-0671.

LOCATION.--Lat 39°49'57", Long 75°05'30", Hydrologic Unit 02040202, at N.J. Department of Transportation facility, N.J. Rt. 41, Deptford Township.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 670 ft, screened 650 to 670 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 35 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.55 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

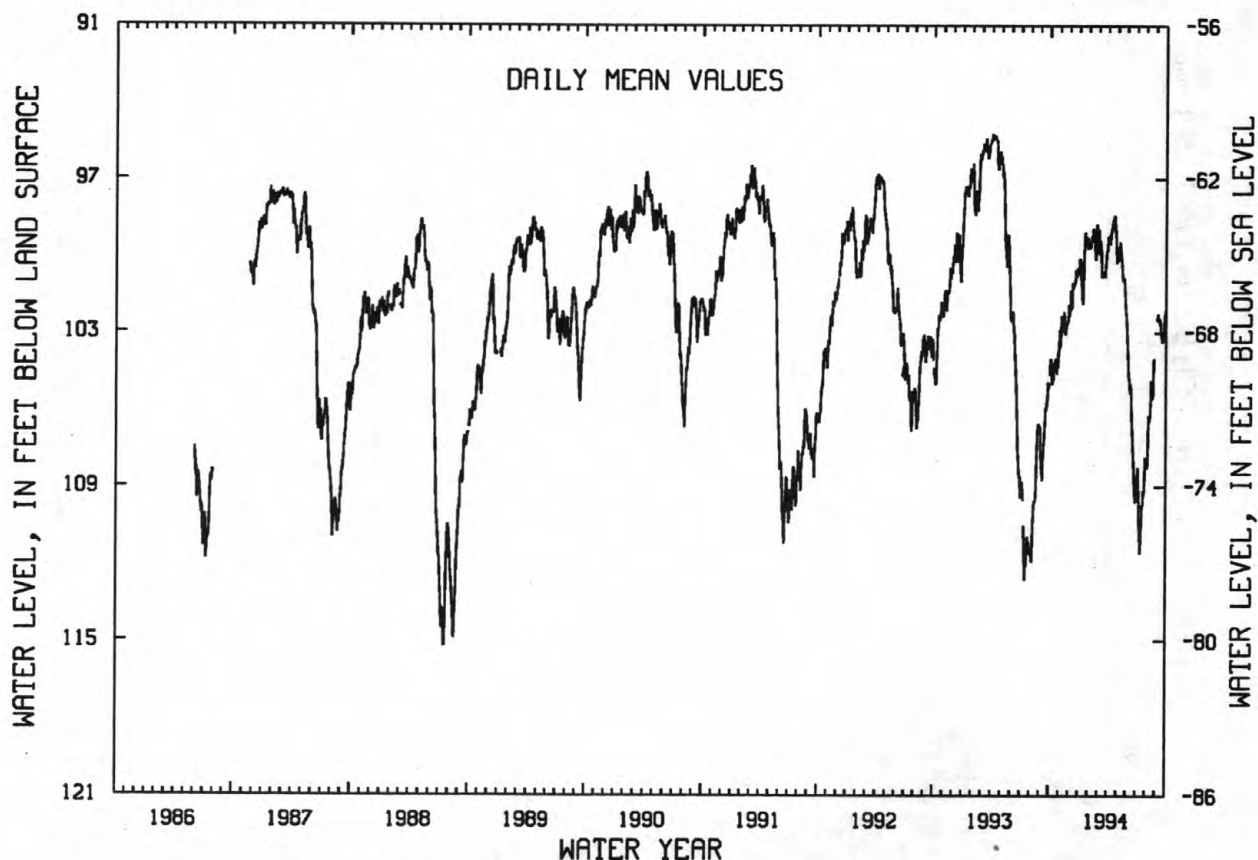
PERIOD OF RECORD.--June 1986 to current year. Records for 1986 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 94.94 ft below land surface datum, Mar. 13, 1993; lowest 115.36 ft below land surface datum, July 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	104.15	102.88	101.36	100.53	99.49	99.94	99.31	99.87	104.29	108.29	108.14	102.32
10	104.80	102.79	101.38	101.69	99.45	99.78	98.99	99.64	105.13	110.47	106.43	102.58
15	104.45	102.43	101.12	99.83	99.08	100.68	98.84	100.35	105.69	111.30	105.70	102.94
20	104.01	102.82	100.85	99.36	100.15	100.77	98.42	100.86	107.55	109.69	105.56	103.35
25	104.16	102.51	100.65	99.47	98.85	100.25	99.05	101.46	109.00	109.24	104.00	102.73
EOM	103.13	102.23	100.69	99.51	98.96	99.38	100.08	102.68	109.30	108.04	---	102.09
MEAN	104.27	102.68	101.19	100.09	99.36	100.12	99.15	100.68	106.42	109.54	106.22	102.69
WTR YR 1994	MEAN 102.67 HIGH 98.16 APR 21 LOW 111.72 JUL 14											

NJ-WRD WELL NO.15-0671



GLOUCESTER COUNTY

395232075094201. Local I.D., Eagle Point 3 Obs. NJ-WRD Well Number, 15-0323.

LOCATION.--Lat 39°52'35", long 75°09'50", Hydrologic Unit 02040202, at the Coastal Eagle Point Oil Company, West Deptford Township.

Owner: Coastal Eagle Point Oil Company.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 276 ft, screened 255 to 275 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 20.96 ft above sea level.

Measuring point: Top of casing, 3.00 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--Nov. 1949 to current year. Records for 1975 to 1981 are unpublished and are available in files of the New Jersey District Office.

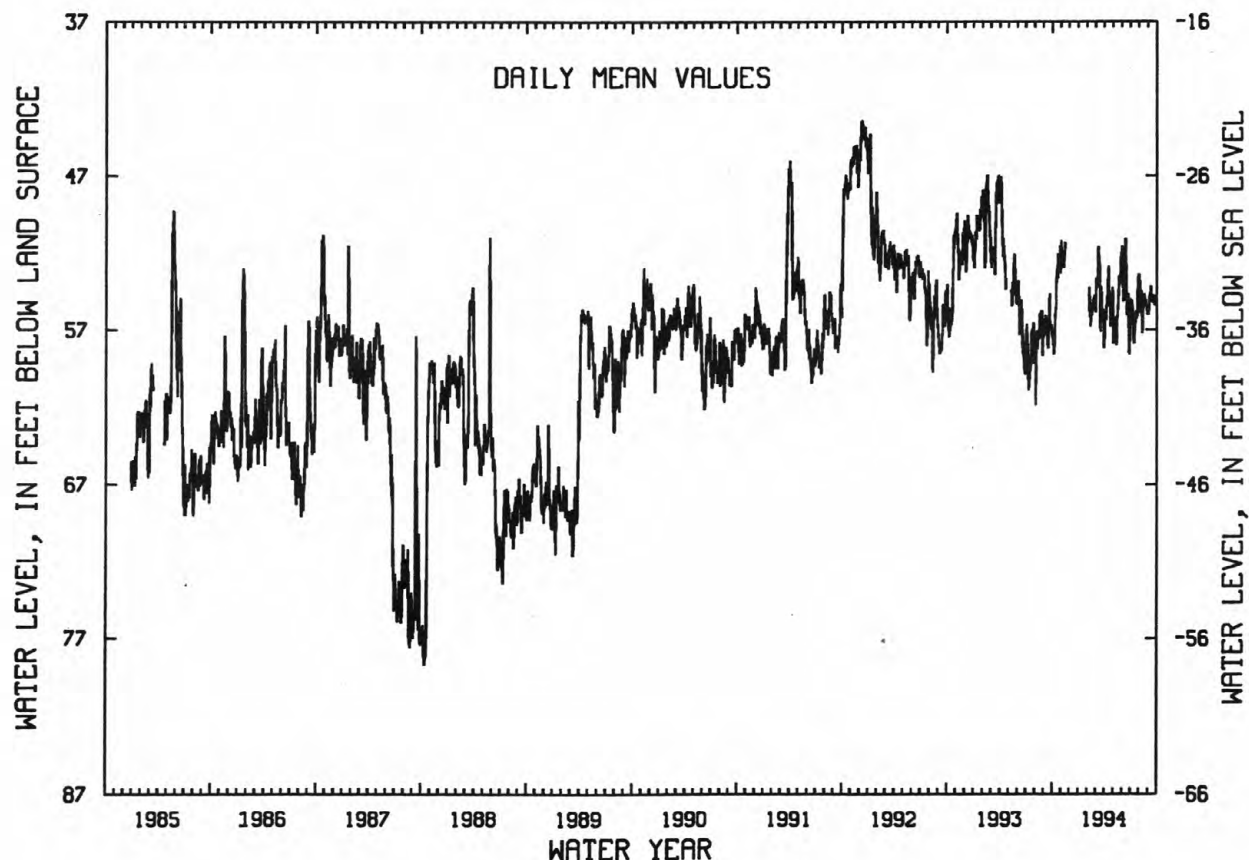
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.70 ft below land surface, Nov. 25, 1950; lowest, 87.30 ft below land surface, June 28, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.57	52.59	---	---	54.76	54.26	56.36	57.17	55.16	55.06	55.93	54.93
10	56.28	52.95	---	---	56.78	51.63	54.91	57.08	51.72	56.40	56.22	54.86
15	53.65	51.34	---	---	55.67	52.79	54.05	56.25	53.45	56.03	55.34	55.24
20	52.80	---	---	---	55.17	54.26	55.34	54.83	55.27	55.80	55.50	55.05
25	53.05	---	---	---	55.12	56.48	55.40	54.09	57.72	56.12	55.48	55.42
EOM	51.22	---	---	---	55.70	57.97	55.04	52.01	56.20	53.88	55.69	54.71
MEAN	54.65	52.32	---	---	55.51	54.85	55.25	55.42	54.48	55.81	55.25	55.07

WTR YR 1994 MEAN 54.99 HIGH 49.73 OCT 31 LOW 59.68 OCT 5

NJ-WRD WELL NO.15-0323



HUNTERDON COUNTY

402151074525301. Local I.D., Corsalo Rd TB 1 Obs. NJ-WRD Well Number, 19-0251.

LOCATION.--Lat 40°21'51", long 74°52'53", Hydrologic Unit 02040105, 1,100 ft east of the intersection of County Rt. 518 and Corsalo Rd., West Amwell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in., depth 299 ft, open hole 21.5 to 299 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 405 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 2.60 ft above land surface.

PERIOD OF RECORD.--June 1989 to current year. Records for 1989 are unpublished and are available in files of the New Jersey District Office.

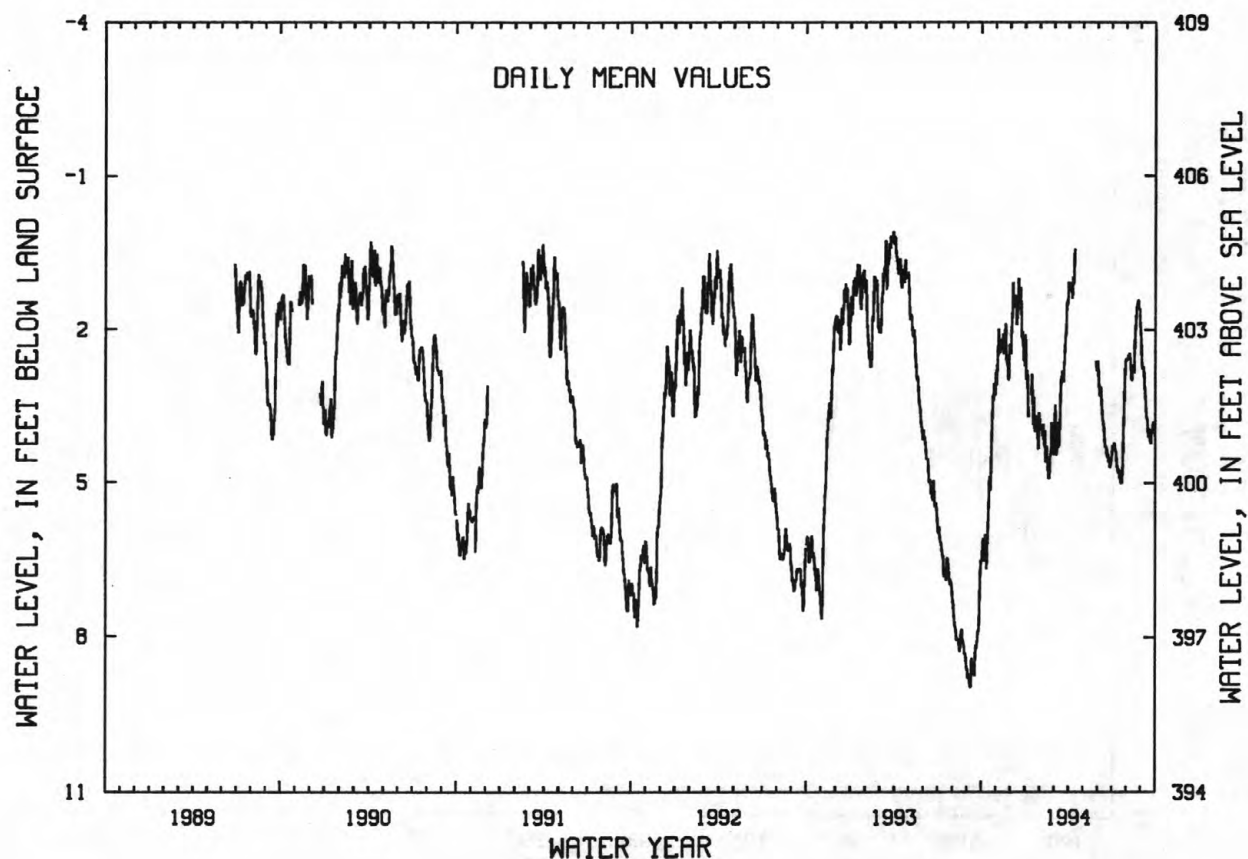
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.51 ft above land surface, Mar. 13, 1993; lowest, 9.00 ft below land surface, Sep. 8, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.25	2.22	1.08	3.32	3.85	4.03	1.21	---	3.29	4.33	2.50	2.75
10	6.33	2.22	1.53	---	4.59	3.81	.98	---	3.60	4.42	2.71	3.37
15	5.55	2.09	1.54	3.23	4.56	3.16	---	---	4.10	4.74	2.69	3.96
20	5.09	1.87	1.47	3.99	4.73	2.98	.65	---	4.49	4.99	1.87	4.15
25	3.30	2.89	2.04	4.01	4.11	2.09	---	---	4.50	4.39	1.42	3.91
EOM	2.96	2.42	2.10	3.88	4.45	1.35	---	2.77	4.55	2.61	2.04	4.12
MEAN	5.06	2.42	1.77	3.54	4.32	3.12	1.04	---	3.94	4.33	2.24	3.56

WTR YR 1994 MEAN 3.29 HIGH .22 APR 13 LOW 6.74 OCT 11

NJ-WRD WELL NO.19-0251



HUNTERDON COUNTY

402644074563601. Local I.D., Bird Obs. NJ-WRD Well Number, 19-0002.

LOCATION.--Lat 40°26'44", long 74°56'36", Hydrologic Unit 02040105, near U.S. Post Office, Sergeantsville, Delaware Township.

Owner: Phillip Fleming.

AQUIFER.--Stockton Formation of Triassic age.

WELL CHARACTERISTICS.--Dug water-table observation well, diameter 36 in., depth 21 ft, lined with stone.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 342.08 ft above sea level.

Measuring point: Top of recorder shelf, 1.50 ft above land surface.

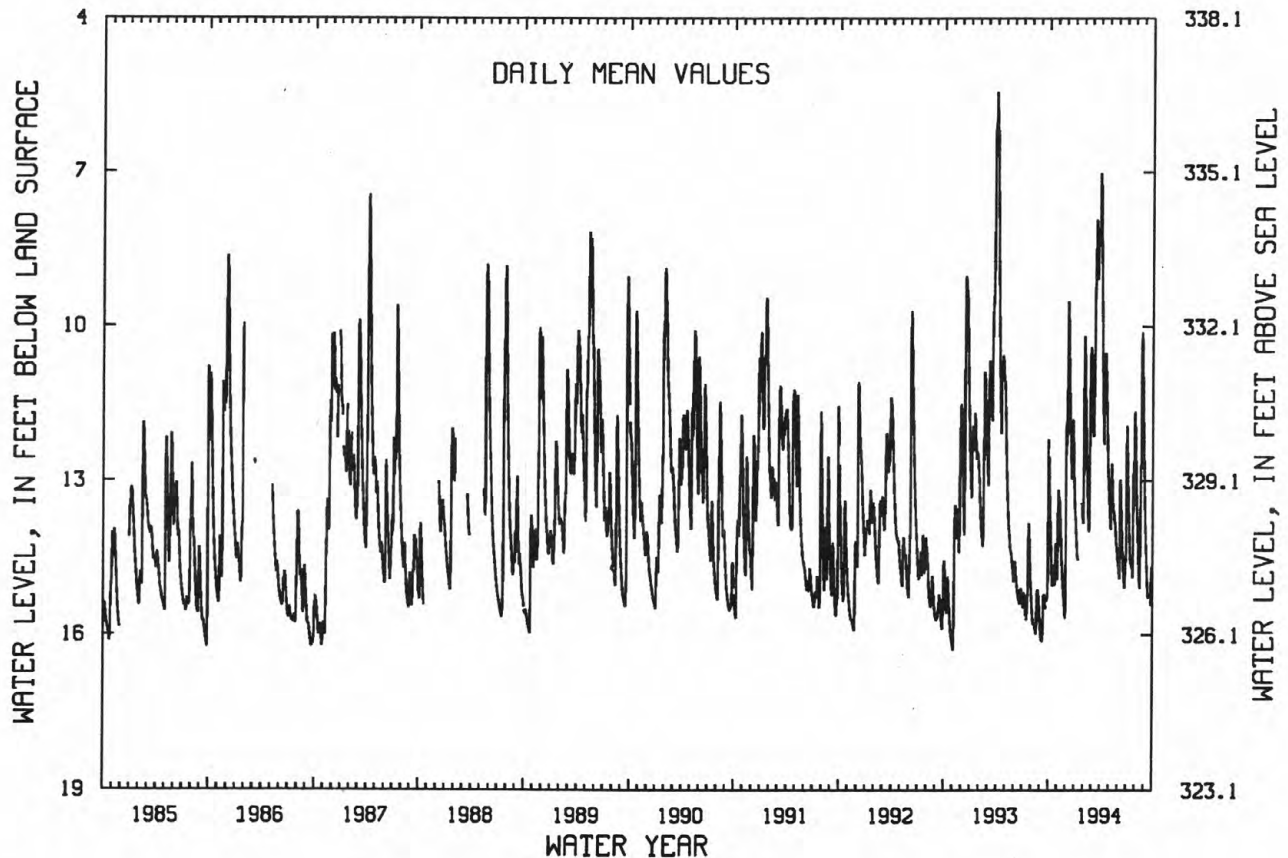
PERIOD OF RECORD.--June 1965 to current year. Records for 1965 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.27 ft below land surface, Mar. 29, 1993; lowest, 17.04 ft below land surface, Jan. 26-28, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.68	13.28	11.31	14.02	10.87	11.94	9.53	13.77	14.85	12.57	13.38	13.94
10	14.68	13.74	10.31	14.51	12.32	10.80	11.61	12.66	13.01	13.83	14.21	14.80
15	14.66	14.61	11.76	---	13.52	8.32	10.78	13.50	14.04	14.61	15.02	15.29
20	15.02	15.10	12.96	---	13.90	8.84	10.78	13.76	14.77	14.65	12.70	---
25	14.21	15.51	11.88	13.44	10.51	8.08	12.16	14.13	15.06	13.01	10.34	15.06
EOM	14.93	12.16	13.43	12.58	10.90	7.08	13.16	14.54	13.22	11.87	12.58	14.72
MEAN	14.39	14.35	11.78	13.91	11.99	9.41	11.02	13.69	14.32	13.47	13.02	14.52
WTR YR 1994	MEAN 12.92	HIGH 6.97	MAR 30	LOW 15.71	NOV 28							

NJ-WRD WELL NO.19-0002



HUNTERDON COUNTY

403455074514801. Local I.D., Environmental Ctr 1 Obs. NJ-WRD Well Number, 19-0276.

LOCATION.--Lat 40°34'38", long 74°51'39", Hydrologic Unit 02030105, at the Hunterdon County Arboretum, Rt. 31, Clinton Township.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Stockton Formation of Triassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 175 ft, open hole 55 to 175 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Mar. 1991 to May 1992.

DATUM.--Land surface is 170.4 ft above sea level.

Measuring point: Top of recorder shelf, 1.45 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Mar. 1991 to current year.

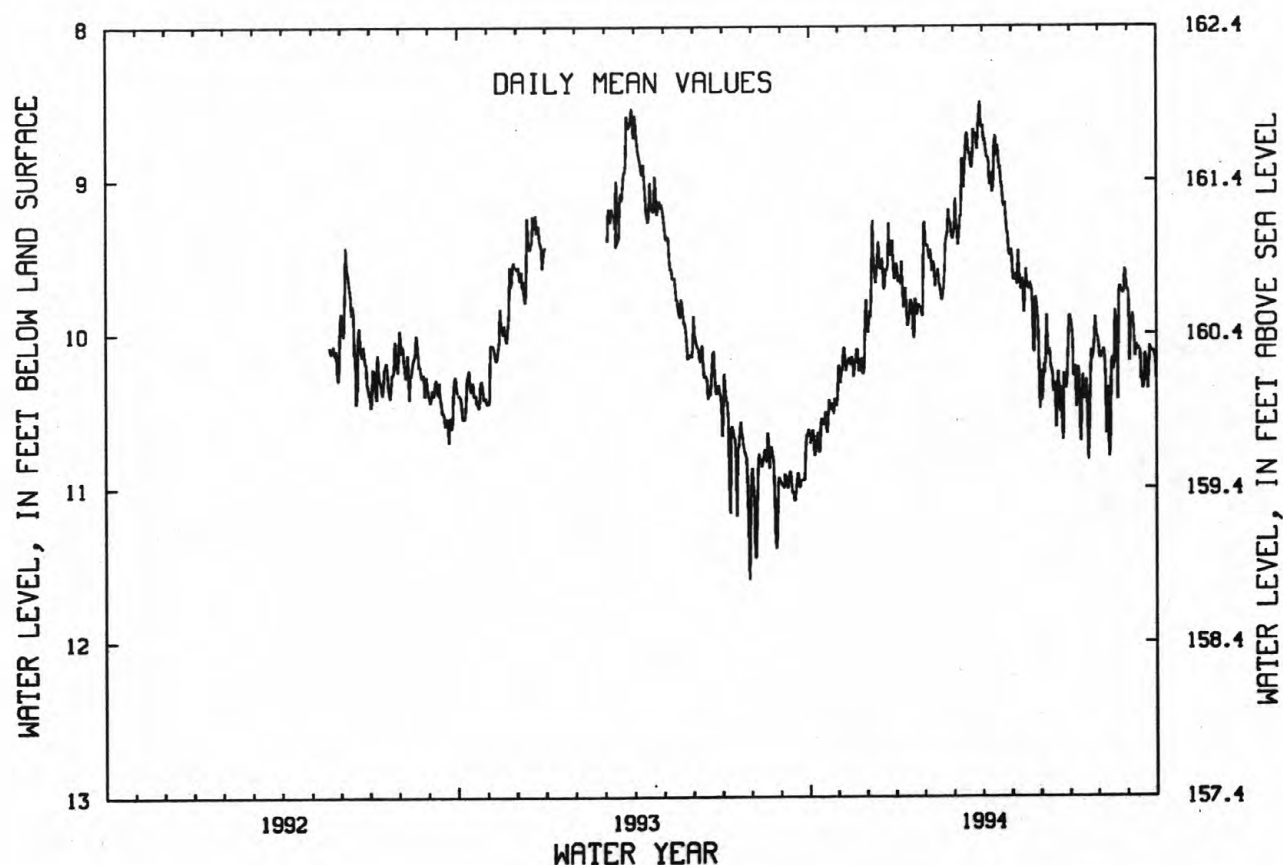
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.44 ft below land surface, Mar. 29, 1994; lowest, 12.16 ft below land surface, Aug. 5, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.75	10.11	9.59	9.68	9.45	9.34	8.85	9.61	10.26	10.28	10.14	9.87
10	10.77	10.18	9.61	9.70	9.69	8.86	8.95	9.67	10.10	10.22	10.57	10.09
15	10.58	10.18	9.55	9.78	9.69	8.69	8.84	9.75	10.32	10.27	10.16	10.30
20	10.56	10.11	9.58	9.77	9.60	8.92	9.01	9.67	10.42	10.55	10.00	10.23
25	10.47	10.25	9.49	9.83	9.28	8.74	9.24	10.12	10.26	10.17	9.73	10.11
EOM	10.21	9.93	9.54	9.43	9.38	8.66	9.47	10.49	9.90	10.03	9.71	10.30
MEAN	10.57	10.17	9.58	9.75	9.52	8.92	9.01	9.76	10.29	10.25	10.07	10.12

WTR YR 1994 MEAN 9.84 HIGH 8.44 MAR 29 LOW 11.83 AUG 12

NJ-WRD WELL NO.19-0276



HUNTERDON COUNTY

403517074452501. Local I.D., Readington School 11 Obs. NJ-WRD Well Number, 19-0270.

LOCATION.--Lat 40°35'17", long 74°45'25", Hydrologic Unit 02030105, behind Readington School, on Readington Rd. (County Rd. 620), Readington Township.

Owner: State of New Jersey.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 101 ft, open hole 50 to 101 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 224.99 ft above sea level.

Measuring point: Top of recorder shelf, 2.20 ft above land surface.

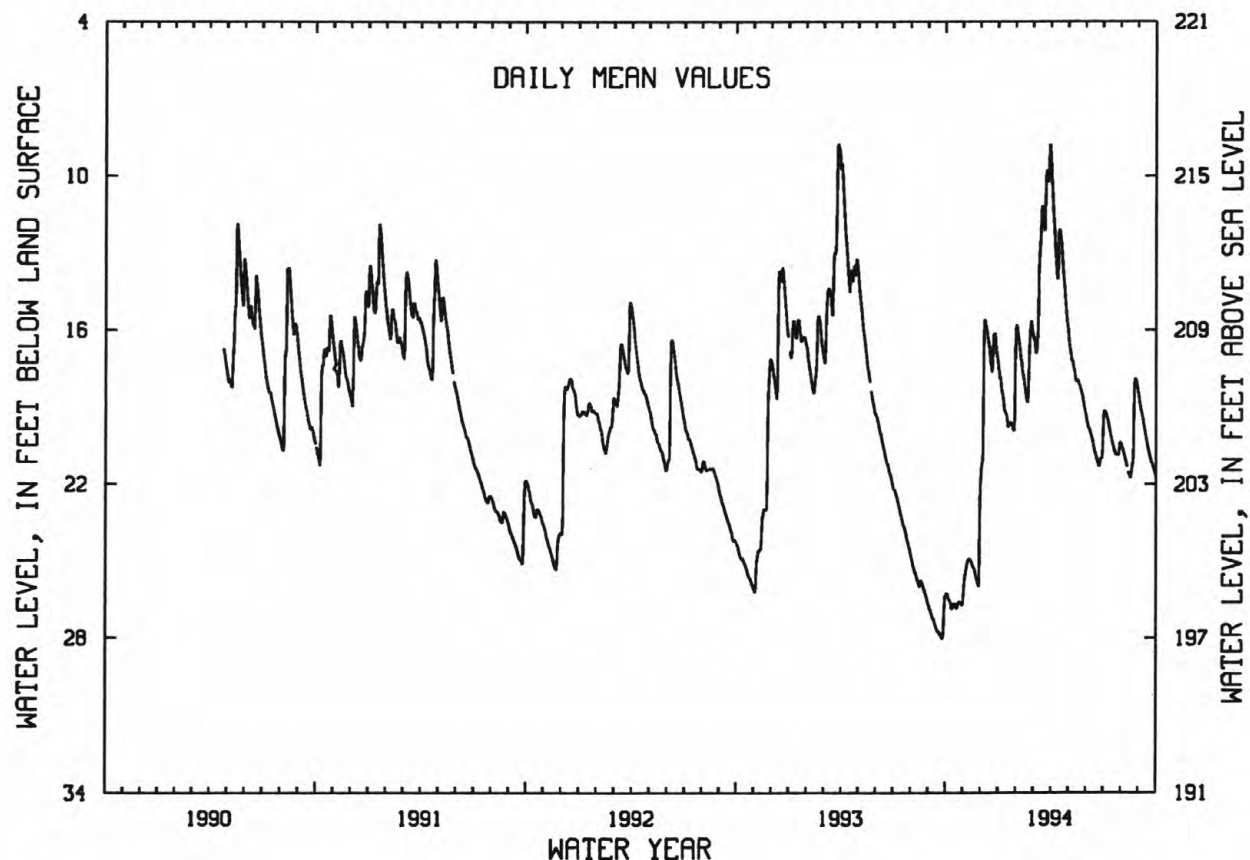
PERIOD OF RECORD.--Apr. 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.64 ft below land surface, Mar. 26, 1993; lowest, 28.05 ft below land surface, Sept. 25-26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.38	25.39	19.36	18.15	16.51	16.74	11.49	16.82	19.76	19.19	20.70	19.19
10	26.71	24.91	15.93	19.07	17.56	15.36	13.36	17.36	20.06	19.61	21.21	19.82
15	26.66	25.04	16.63	19.51	18.28	11.78	12.10	17.99	20.57	20.16	21.63	20.43
20	26.86	25.30	17.65	19.61	18.75	12.00	12.97	18.09	21.04	20.66	21.29	20.97
25	26.59	25.85	16.13	19.83	15.81	9.78	14.50	18.48	21.21	20.85	17.90	21.32
EOM	26.57	22.13	17.39	15.81	16.02	9.07	15.83	19.21	20.73	20.38	18.47	21.74
MEAN	26.62	25.20	17.27	18.85	17.18	12.77	13.03	17.81	20.47	20.13	20.27	20.36
WTR YR 1994	MEAN 19.17	HIGH 8.72 MAR 30	LOW 26.90 OCT 11-12									

NJ-WRD WELL NO.19-0270



MERCER COUNTY

401552074501801. Local I.D., Civil Defense Obs. NJ-WRD Well Number, 21-0028.

LOCATION.--Lat 40°15'53", long 74°50'12", Hydrologic Unit 02040105, at the State Police Headquarters, Ewing Township.

Owner: State of New Jersey.

AQUIFER.--Lockatong Formation of Triassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 300 ft, open hole 33 to 300 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 122.99 ft above sea level.

Measuring point: Top of shelter shelf, 2.80 ft above land surface.

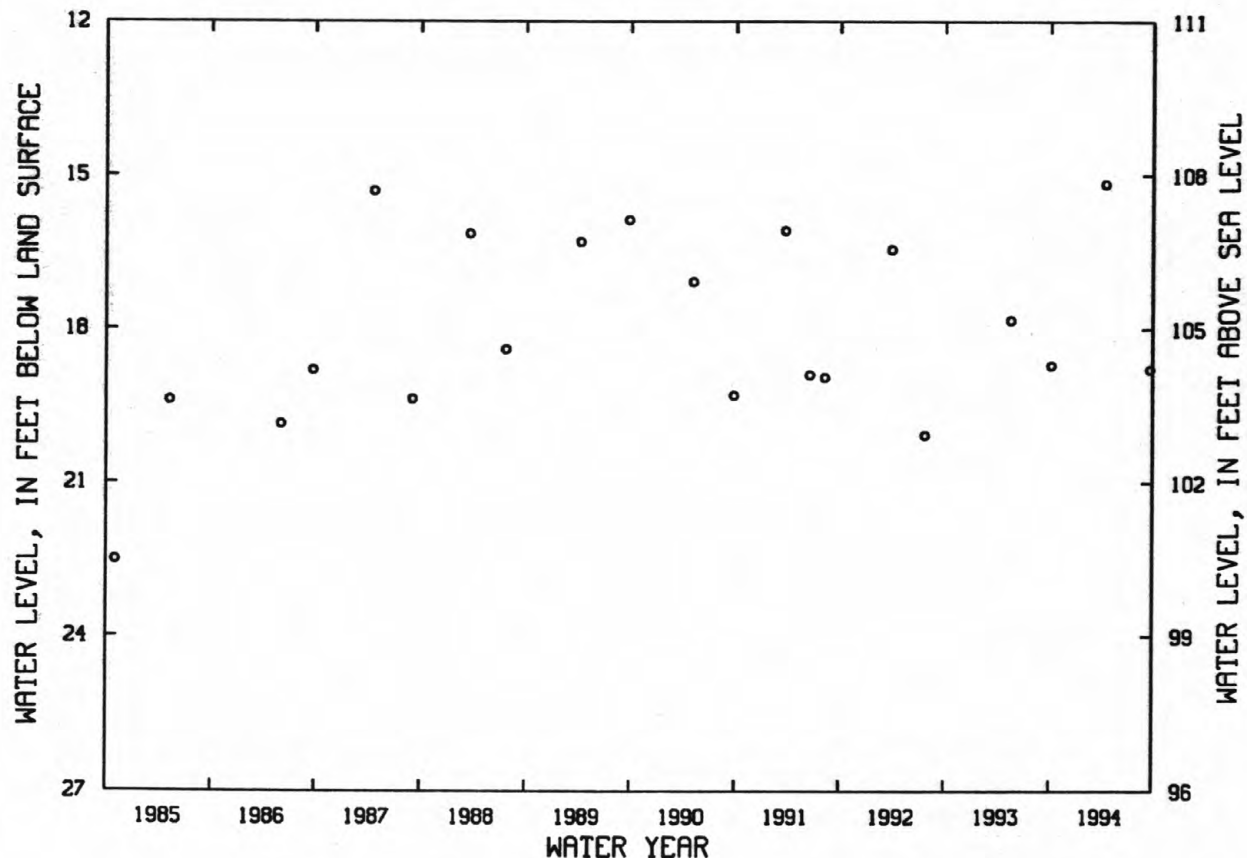
PERIOD OF RECORD.--June 1964 to current year. Records for 1964 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.14 ft below land surface, Apr. 6, 1970; lowest, 49.69 ft below land surface, June 17, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	18.71	APR 15	15.17	SEP 22	18.79

NJ-WRD WELL NO. 21-0028



MERCER COUNTY

401753074483501. Local I.D., Bristol-Myers 100 Obs. NJ-WRD Well Number, 21-0289.

LOCATION.--Lat 40°17'53", long 74°48'35", Hydrologic Unit 02040105, about 600 ft east of Scotch Rd. and about 1.1 mi north of I-95, interchange 3, Hopewell Township.

Owner: Bristol-Myers Squibb Company.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 300 ft, open hole 12 to 300 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 215 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 1.65 ft above land surface.

REMARKS.--Water level is occasionally affected by pumping of nearby irrigation well.

PERIOD OF RECORD.--Dec. 1986 to current year. Records for 1986 to 1989 are unpublished and are available in files of the New Jersey District Office.

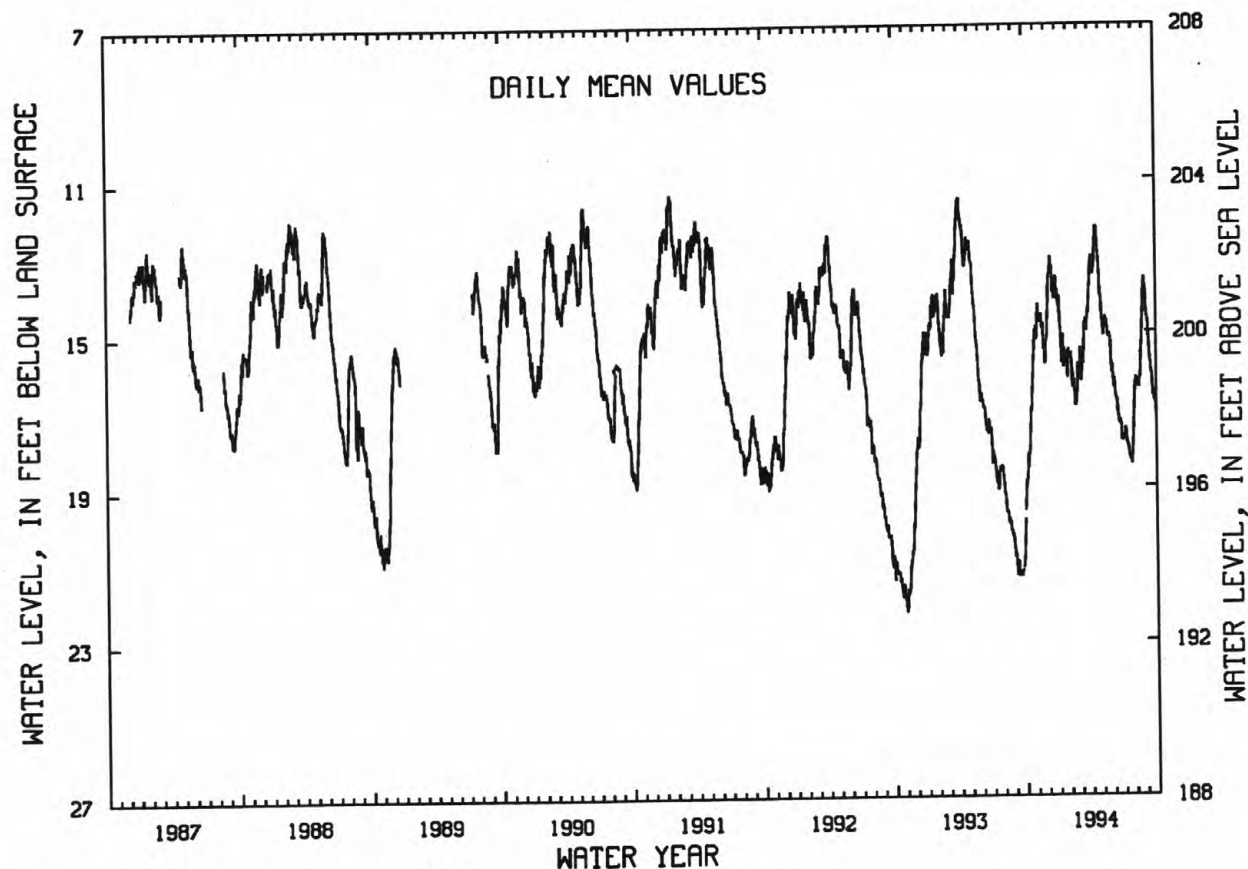
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.22 ft below land surface, Jan. 17, 1991; lowest, 22.29 ft below land surface, Nov. 1-2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.84	14.37	13.60	14.57	15.54	15.87	13.08	14.82	16.45	17.69	16.19	14.63
10	18.35	14.60	13.29	15.79	16.45	15.54	13.16	14.82	16.62	17.83	16.38	15.35
15	17.72	14.53	13.28	15.39	16.51	14.86	12.53	14.84	16.98	18.00	16.20	15.99
20	16.88	14.77	14.13	15.81	16.82	14.93	12.36	15.09	17.38	18.33	15.28	16.58
25	15.62	15.70	13.55	15.82	15.97	14.35	13.15	15.15	17.51	18.32	14.02	16.79
EOM	14.85	15.18	14.24	15.60	16.25	13.50	14.07	16.02	17.80	17.00	13.83	17.17
MEAN	17.26	14.95	13.81	15.35	16.22	15.06	13.03	15.01	16.97	17.90	15.46	15.83

WTR YR 1994 MEAN 15.57 HIGH 12.17 APR 19 LOW 19.75 OCT 1

NJ-WRD WELL NO.21-0289



MERCER COUNTY

401804074432601. Local I.D., Cranston Farms 15 Obs. NJ-WRD Well Number, 21-0364.

LOCATION.--Lat 40°18'04", long 74°43'26", Hydrologic Unit 02040105, 1,200 ft north of intersection of Cold Soil Rd. and Rt. 206, Lawrenceville, Lawrence Township.

Owner: State of New Jersey.

AQUIFER.--Stockton Formation of Triassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 200 ft, open hole 50 to 200 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 123.2 ft above sea level.

Measuring point: Top of recorder shelf, 2.30 ft above land surface.

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

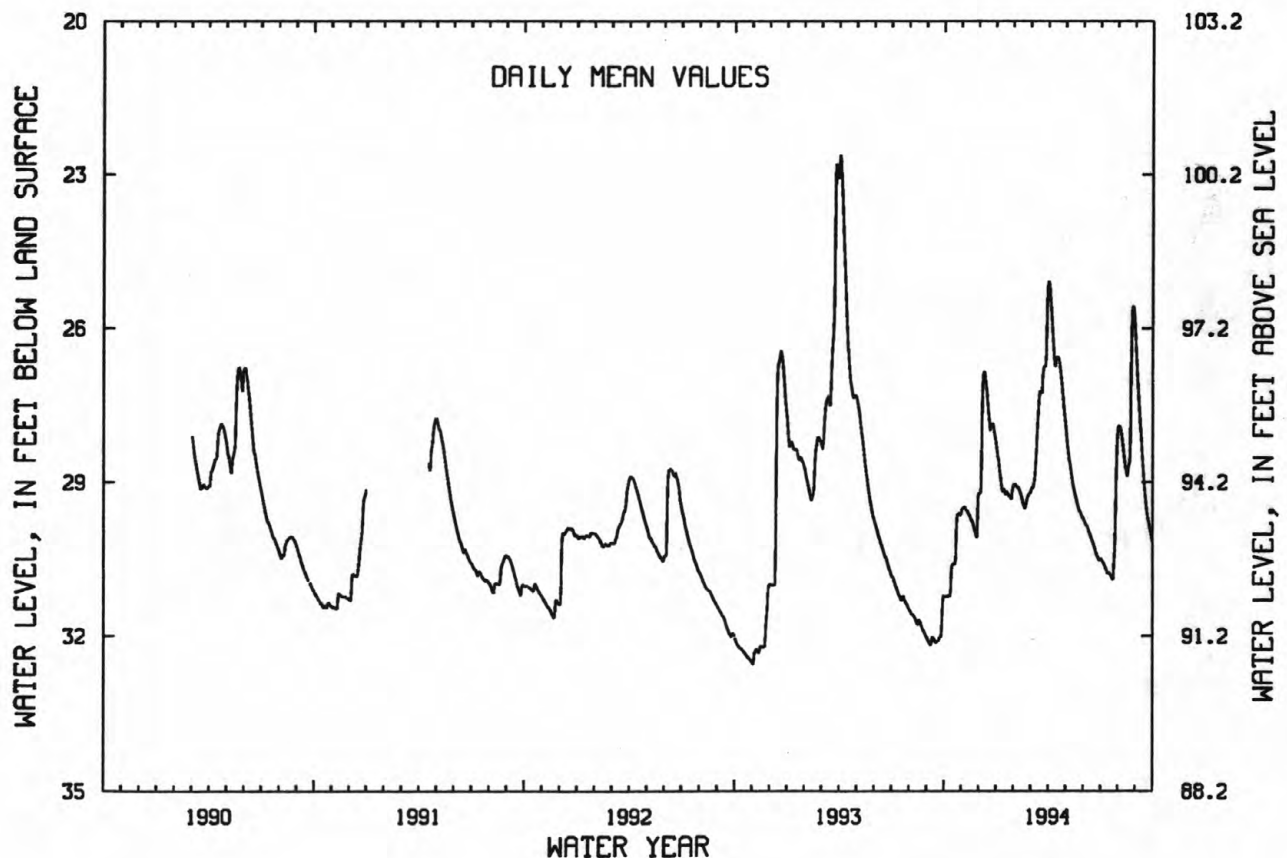
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.58 ft below land surface, Apr. 2-3, 1993; lowest, 32.55 ft below land surface, Nov. 2, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.24	29.50	28.64	28.68	29.08	29.12	25.51	28.37	29.84	30.56	27.97	27.29
10	31.22	29.56	26.84	29.10	29.17	28.65	26.38	28.75	29.95	30.68	28.40	28.21
15	30.61	29.67	27.32	29.17	29.34	27.56	26.61	29.11	30.11	30.76	28.78	28.97
20	30.58	29.80	28.00	29.21	29.51	27.26	26.67	29.35	30.28	30.84	28.64	29.54
25	29.63	30.02	27.87	29.29	29.27	26.74	27.14	29.56	30.43	30.48	25.71	29.88
EOM	29.59	29.24	28.29	29.05	29.22	25.21	27.79	29.70	30.52	28.07	26.20	30.17
MEAN	30.54	29.68	27.84	29.05	29.25	27.68	26.50	29.04	30.13	30.37	27.68	28.76

WTR YR 1994 MEAN 28.87 HIGH 25.08 APR 1 LOW 31.28 OCT 2

NJ-WRD WELL NO.21-0364



MERCER COUNTY

401819074351601. Local I.D., WW MW-2 Obs. NJ-WRD Well Number, 21-0395.

LOCATION.--Lat 40°18'06", long 74°35'33", Hydrologic Unit 02030105, in West Windsor Estates, at the intersection of Bennington Dr. and West Kinkaïd Dr., West Windsor Township.

Owner: West Windsor Township - West Windsor Estates.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

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

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 84.25 ft above sea level.

Measuring point: Top of recorder shelf, 2.63 ft above land surface.

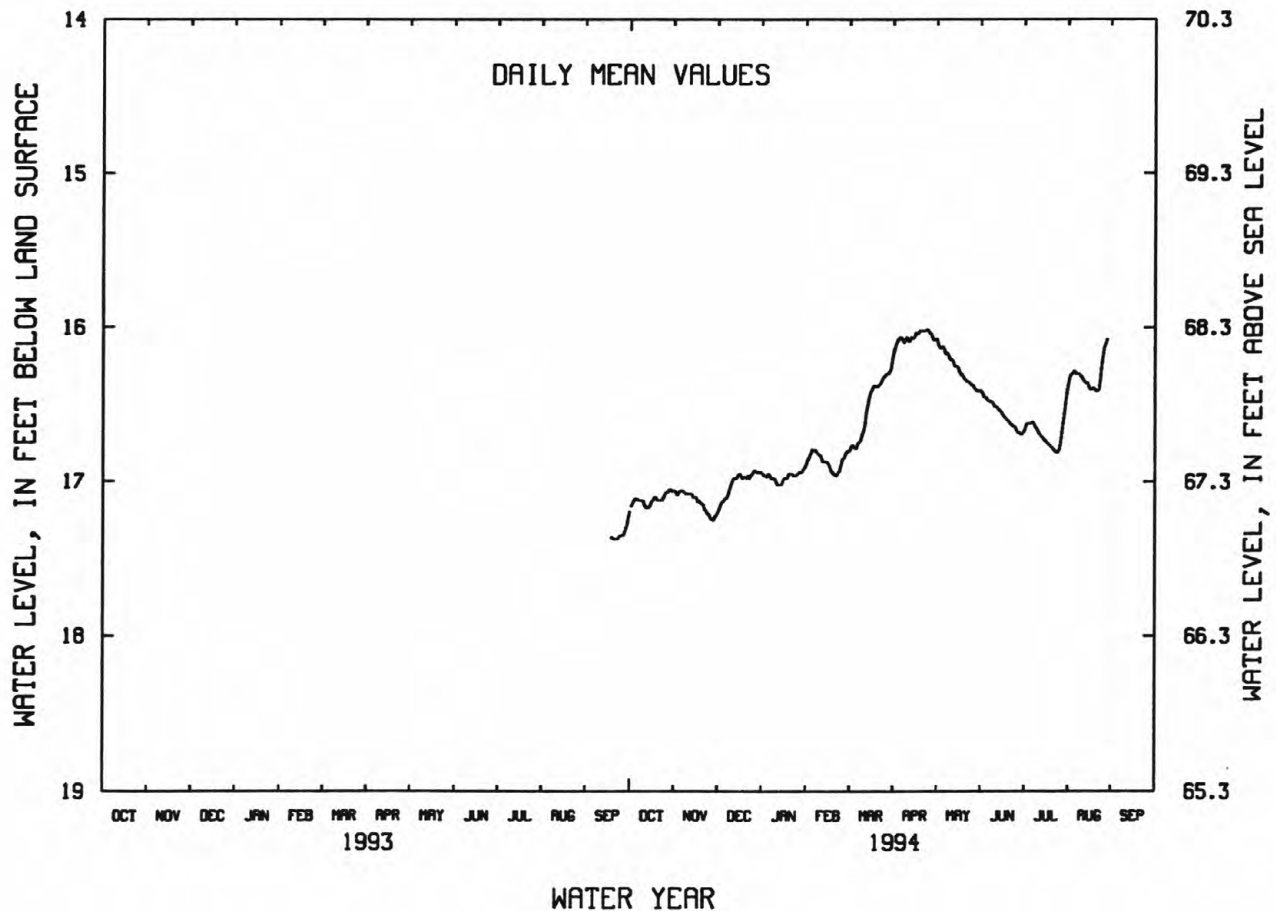
PERIOD OF RECORD.--Sept. 1993 to Aug. 1994 (discontinued). Records for 1993 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.01 ft below land surface, Apr. 19-25, 1994; lowest, 17.37 ft below land surface, Sept. 19-23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.11	17.06	17.11	16.96	16.79	16.78	16.07	16.12	16.47	16.62	16.28	---
10	17.15	17.08	17.00	17.02	16.87	16.69	16.06	16.20	16.51	16.67	16.32	---
15	17.13	17.10	16.95	16.98	16.90	16.45	16.07	16.25	16.55	16.73	16.39	---
20	17.12	17.15	16.98	16.95	16.96	16.38	16.02	16.33	16.61	16.78	16.41	---
25	17.07	17.24	16.93	16.94	16.85	16.32	16.02	16.37	16.66	16.79	16.17	---
EOM	17.06	17.20	16.95	16.86	16.80	16.21	16.08	16.41	16.68	16.39	---	---
MEAN	17.11	17.13	17.00	16.96	16.86	16.51	16.06	16.27	16.56	16.68	16.31	---
WTR YR 1994 MEAN 16.68 HIGH 16.01 APR 19-25 LOW 17.25 NOV 26-28												

NJ-WRD WELL NO.21-0395



GROUND-WATER LEVELS

MERCER COUNTY

401834074515501. Local I.D., Washington Crossing Park 14 Obs. NJ-WRD Well Number, 21-0366.

LOCATION.--Lat 40°18'37", Long 74°51'15", Hydrologic Unit 02040105, off Brick Yard Rd., in Washington Crossing State Park, Hopewell Township.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 225 ft, open hole 50 to 225 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Apr. 1991 to Apr. 1992.

DATUM.--Land surface is 183.3 ft above sea level.

Measuring point: Top of recorder shelf, 2.10 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Apr. 1991 to current year.

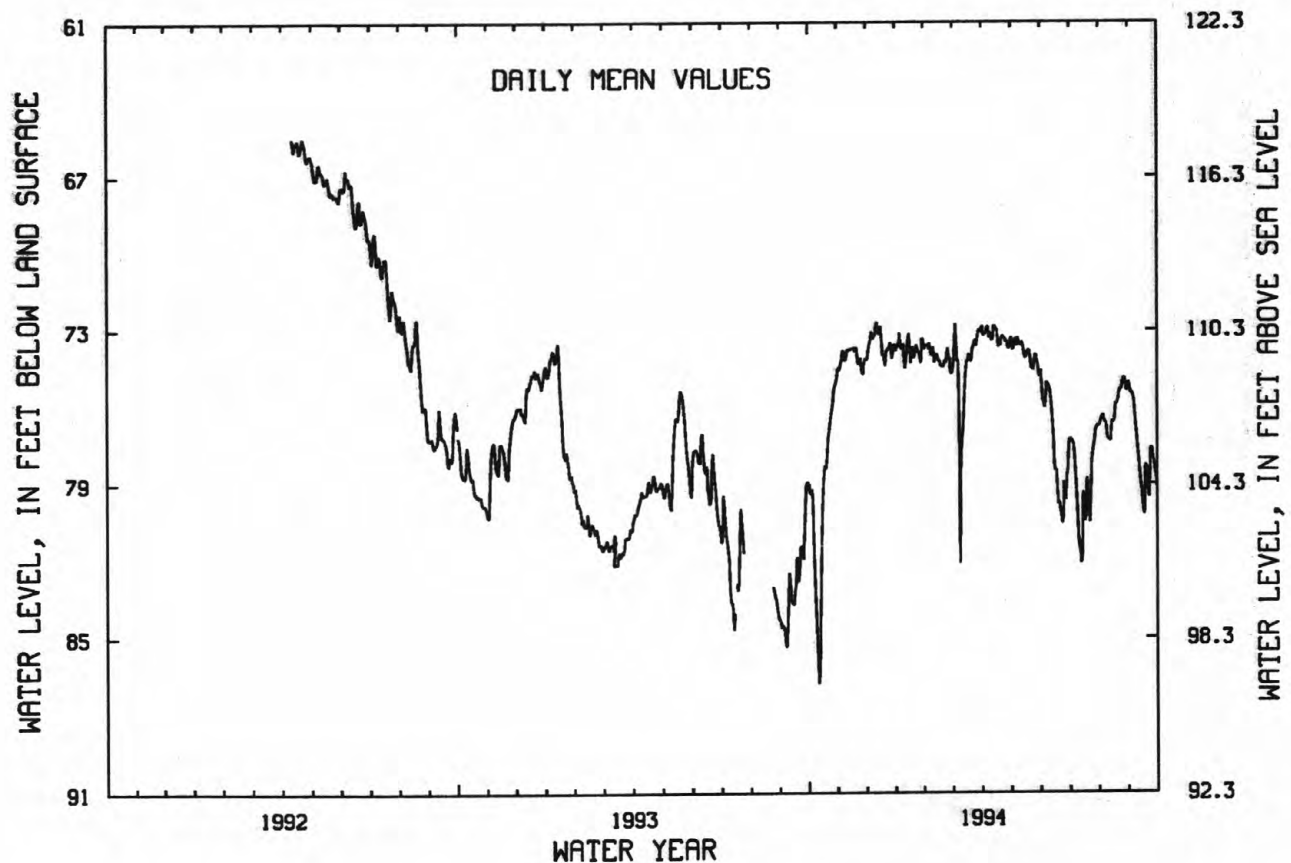
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.07 ft below land surface, Apr. 17, 1992; lowest, 87.18 ft below land surface, Oct. 11, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.83	73.85	73.07	73.65	73.53	73.49	73.09	73.34	76.02	77.47	76.34	75.57
10	85.76	73.81	72.85	74.49	74.26	78.04	73.11	73.54	75.32	81.09	77.25	77.60
15	79.87	73.75	72.84	73.63	74.17	74.60	73.00	74.03	78.26	79.33	76.55	79.69
20	77.97	73.75	74.40	74.00	74.37	74.24	73.63	73.82	79.70	79.27	75.84	78.92
25	76.10	74.54	73.50	73.95	74.07	73.40	73.42	74.33	78.92	77.79	75.05	77.66
EOM	74.54	74.20	73.83	73.66	74.72	72.99	73.41	74.85	77.46	76.76	75.04	79.16
MEAN	79.35	74.08	73.54	73.76	74.07	74.59	73.26	73.91	77.56	78.91	76.12	77.83

WTR YR 1994 MEAN 75.59 HIGH 72.04 MAR 4 LOW 87.18 OCT 11

NJ-WRD WELL NO.21-0366



MERCER COUNTY

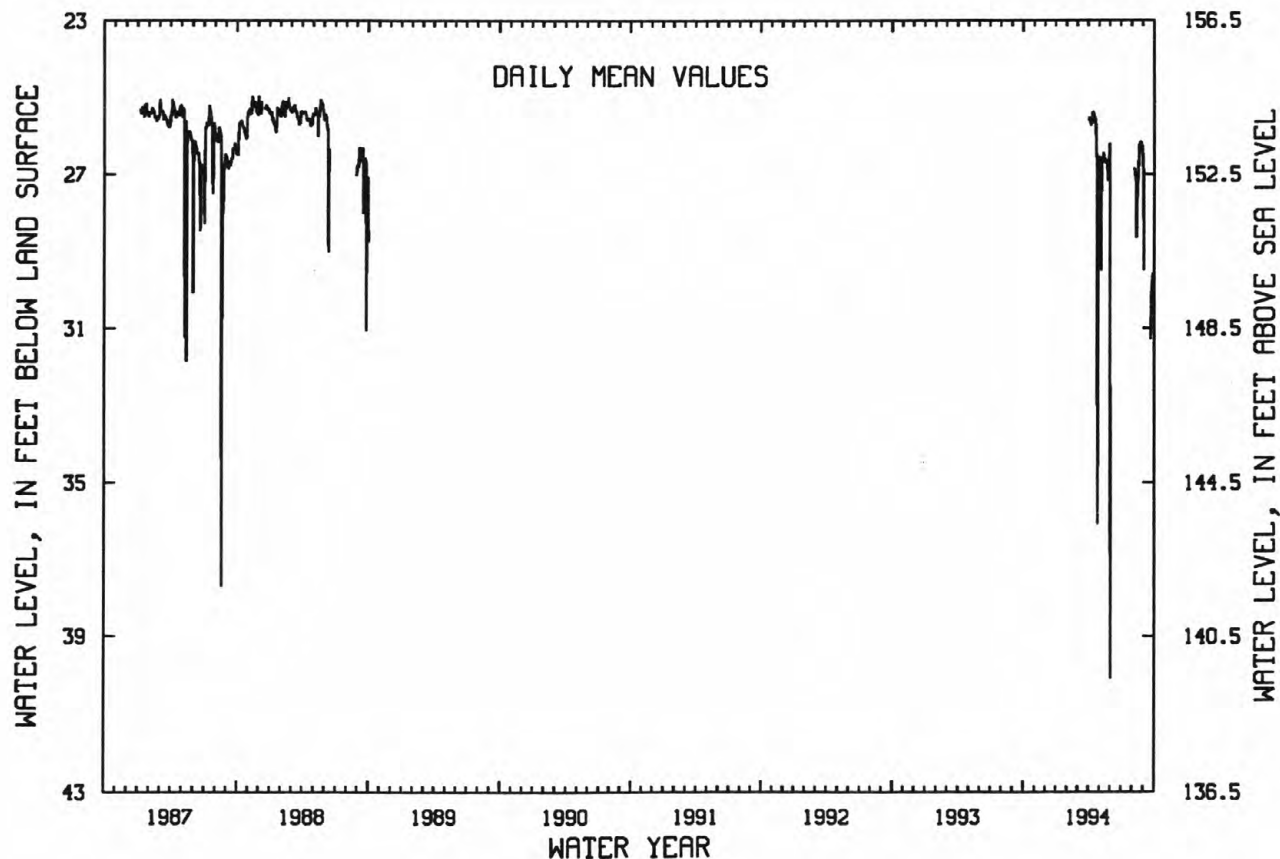
402131074461201. Local I.D., SBMWA Honey Branch 10 Obs. NJ-WRD Well Number, 21-0088.
 LOCATION.--Lat 40°21'31", long 74°46'11", Hydrologic Unit 02030105, at the Stoney Brook-Millstone Watershed Association near Pennington, Hopewell Township.
 Owner: U.S. Geological Survey - Stoney Brook-Millstone Watershed Association.
 AQUIFER.--Passaic Formation of Triassic-Jurassic age.
 WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 150 ft, open hole 20 to 150 ft.
 INSTRUMENTATION.--Digital water-level recorder--60 minute punch. Periodic manual measurements, July 1984 to Jan. 1987 and Oct. 1988 to Apr. 1994.
 DATUM.--Land surface is 179.53 ft above sea level.
 Measuring point: Top of recorder shelf, 4.00 ft above land surface.
 REMARKS.--Water level is affected by nearby pumping.
 PERIOD OF RECORD.--June 1967 to current year. Records for 1967 to 1975 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.63 ft below land surface, July 21, 1967; lowest, 51.52 ft below land surface, June 2, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	25.61	27.46	---	---	26.86	---
10	---	---	---	---	---	---	25.54	26.58	---	---	27.08	---
15	---	---	---	---	---	---	25.48	26.70	---	---	27.22	---
20	---	---	---	---	---	---	25.67	26.66	---	---	26.24	31.28
25	---	---	---	---	---	---	31.78	27.17	---	---	26.18	29.74
EOM	---	---	---	---	---	---	26.54	26.37	---	---	26.92	---
MEAN	---	---	---	---	---	---	26.59	26.79	---	---	26.76	---

WTR YR 1994 HIGH 25.21 APR 13 LOW 51.52 JUN 2

NJ-WRD WELL NO.21-0088



MERCER COUNTY

402138074435801. Local I.D., AT&T North Obs. NJ-WRD Well Number, 21-0365.

LOCATION.--Lat 40°21'38", long 74°43'58", Hydrologic Unit 02030105, AT&T, Carter Rd., Hopewell Township.

Owner: AT&T.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, depth 99 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 231 ft above sea level, by altimeter.

Measuring point: Top of recorder shelf, 3.00 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

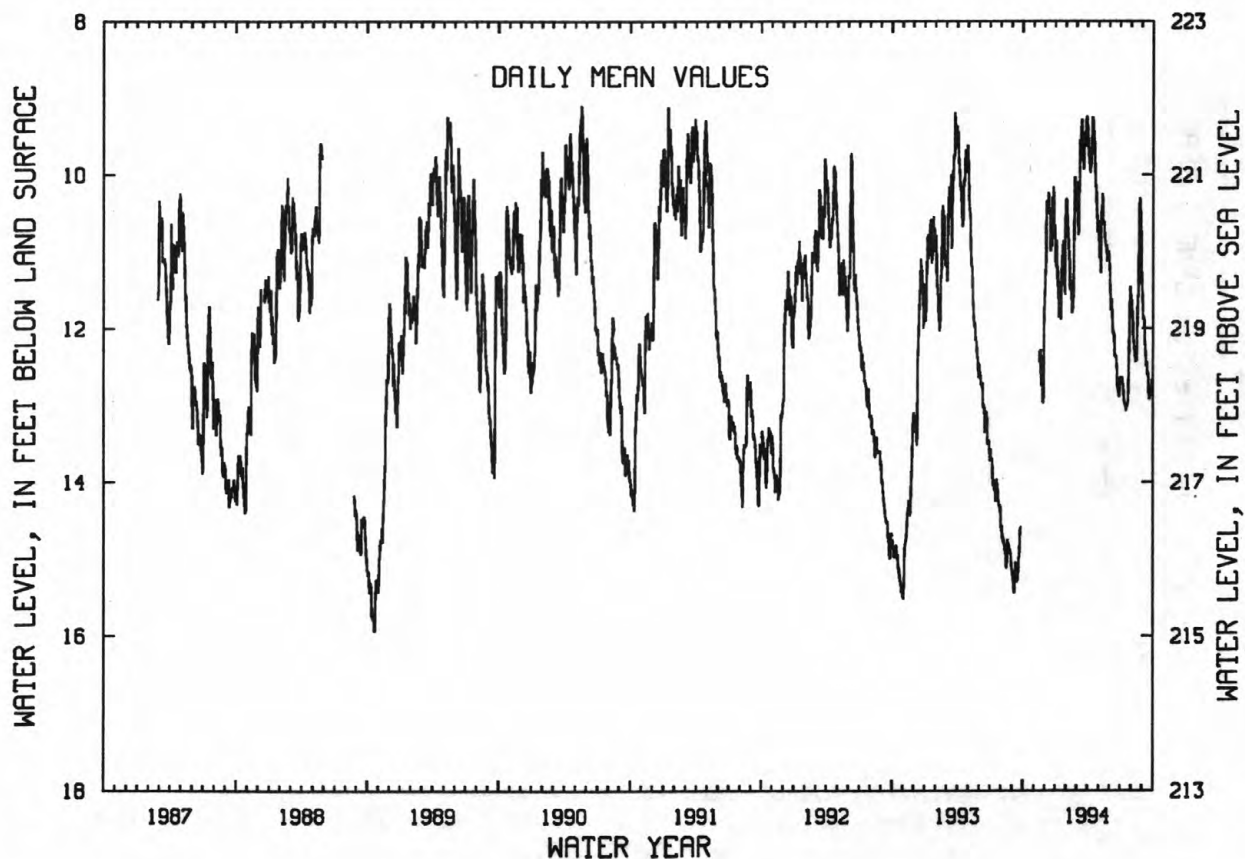
PERIOD OF RECORD.--Feb. 1987 to current year. Records for 1987 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.90 ft below land surface, May 17, 1990; lowest, 16.07 ft below land surface, Oct. 21, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	10.34	11.26	10.68	10.68	9.84	10.95	11.76	12.72	11.84	11.86
10	---	---	10.33	11.86	11.50	9.55	9.71	10.47	12.04	12.83	12.30	12.33
15	---	---	10.43	11.68	11.60	9.28	9.26	10.62	12.35	12.98	12.29	12.57
20	---	12.37	10.93	11.02	11.57	9.93	9.73	10.86	12.52	13.02	11.57	12.90
25	---	12.94	10.16	11.31	10.26	9.44	10.31	11.12	12.67	12.53	10.31	12.82
EOM	---	11.61	11.12	10.31	10.47	9.37	10.69	11.16	12.71	11.56	11.47	12.82
MEAN	---	---	10.65	11.22	11.00	9.78	9.87	10.83	12.22	12.63	11.61	12.45
WTR YR 1994	MEAN 11.28	HIGH 9.15	MAR 29	LOW 13.15	JUL 18							

NJ-WRD WELL NO.21-0365



MIDDLESEX COUNTY

401932074352901. Local I.D., Plainsboro Pond Obs. NJ-WRD Well Number, 23-0273.

LOCATION.--Lat 40°19'32", long 74°35'29", Hydrologic Unit 02030105, near Plainsboro High School, Grovers Mill Rd. Plainsboro Township.

Owner: State of New Jersey - NJ Water Policy.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 75 ft, screened 70 to 75 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 76 ft above sea level from topographic map.

Measuring point: Top of shelf, 1.40 ft above land surface.

REMARKS.--Water level is affected by the stage of Plainsboro Pond.

PERIOD OF RECORD.--Dec. 1970 to Nov. 1984, Apr. 1987 to Sept. 1987, Apr. 1990 to current year. Records for

1970 to 1984, and 1987 are unpublished and are available in files of the New Jersey District Office.

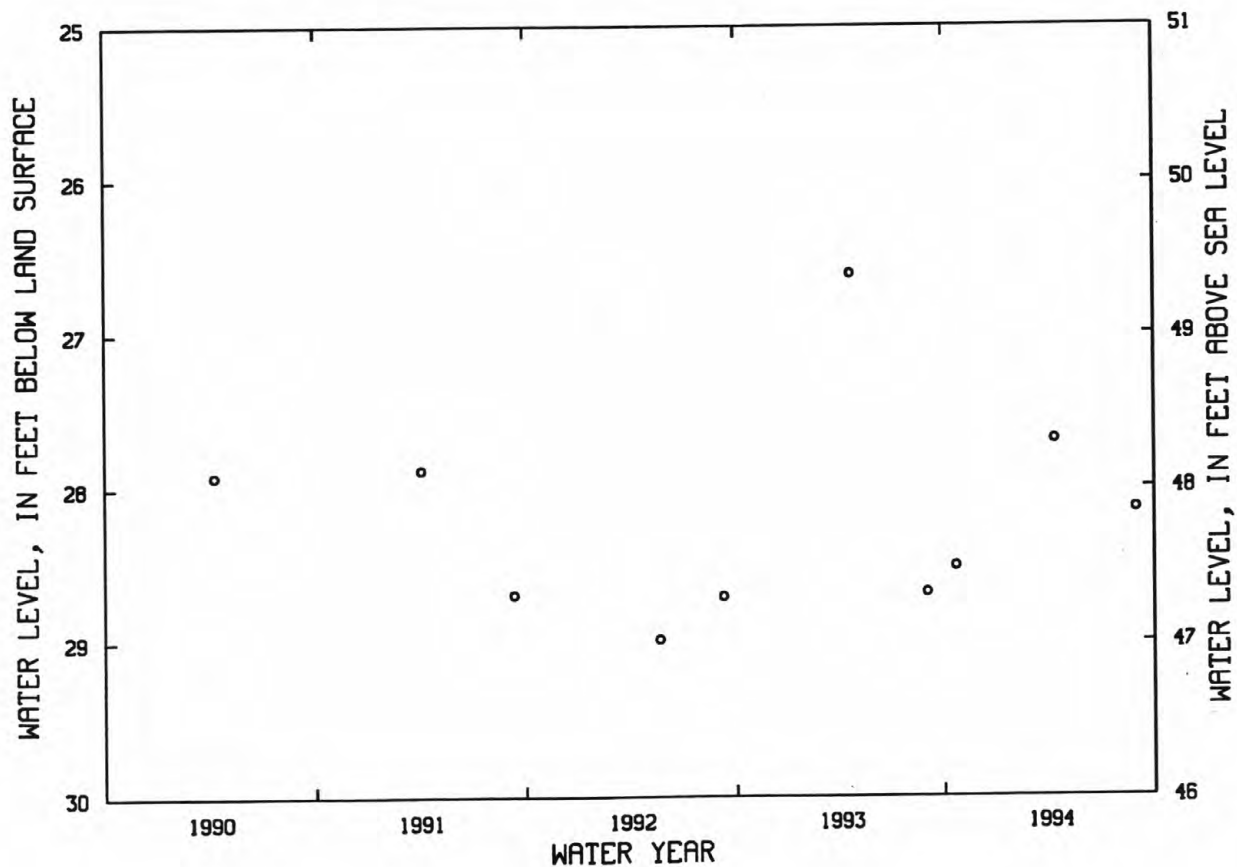
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.49 ft below land surface, May 20, 1983; lowest,

29.94 ft below land surface, July 27, 1971.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	28.51	APR 11	27.69	AUG 30	28.14

NJ-WRD WELL NO. 23-0273



MIDDLESEX COUNTY

402015074275701. Local I.D., Forsgate 3 Obs. NJ-WRD Well Number, 23-0228.

LOCATION.--Lat 40°20'15", long 74°27'57", Hydrologic Unit 02030105, Hanover Lane at Rossmoor, Monroe Township.

Owner: Monroe Township Municipal Utilities Authority.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 138 ft, screened 128 to 138 ft.

INSTRUMENTATION.--Water-level extremes recorder

DATUM.--Land surface is 147.34 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 1.40 ft below land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Oct. 1961 to current year. Records for 1961 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 70.32 ft below land surface, May 6, 1962; lowest, 93.72 ft below land surface, between June 22 and Sept. 28, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 20, 1993	85.27	88.87	DEC. 20, 1993	85.54
DEC. 20, 1993 TO MAR. 24, 1994	84.49	87.04	MAR. 24, 1994	85.80
MAR. 24, 1994 TO JUNE 21, 1994	83.80	87.57	JUNE 21, 1994	86.75
JUNE 21, 1994 TO OCT. 3, 1994	84.93	88.50	OCT. 3, 1994	85.54

NJ-WRD WELL NO. 23-0228

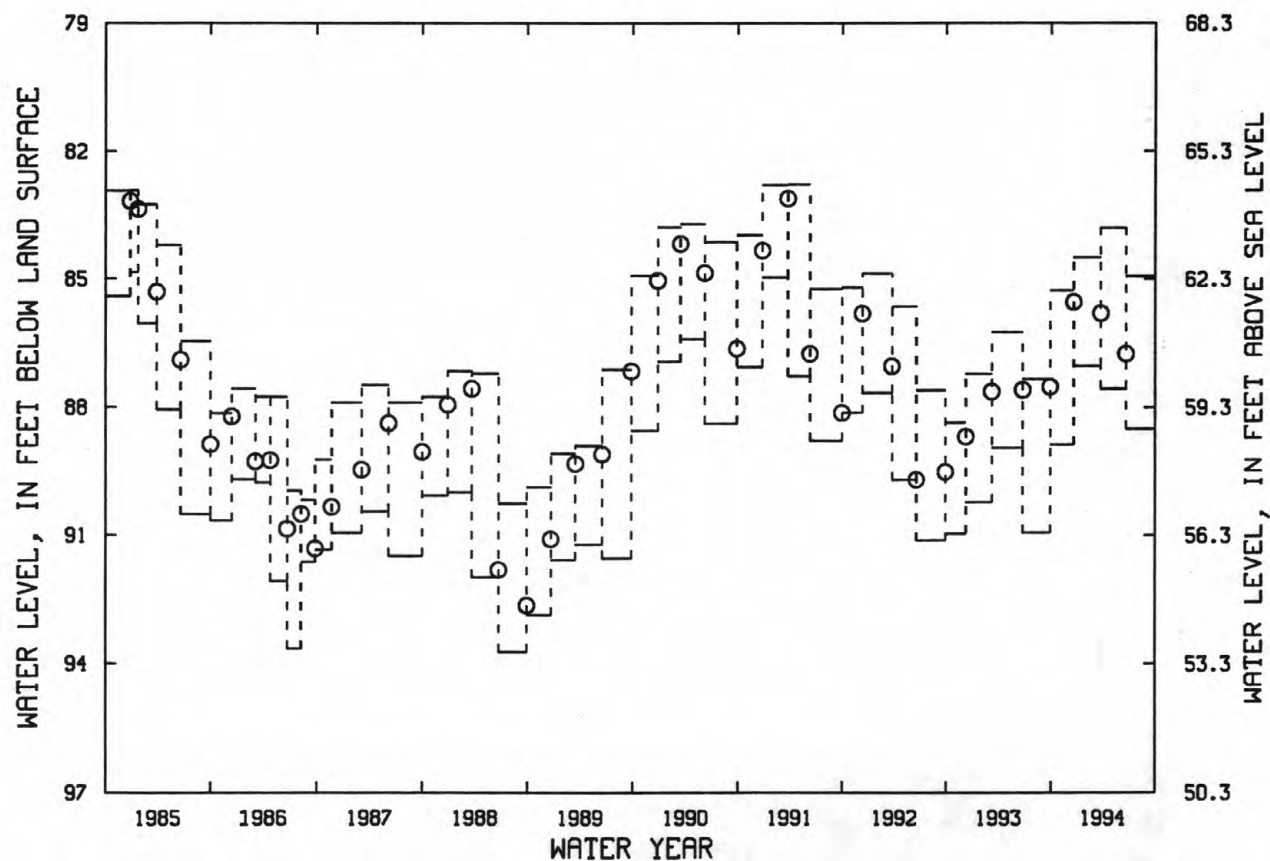
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

— LOWEST WATER LEVEL



MIDDLESEX COUNTY

402015074275702. Local I.D., Forsgate 4 Obs. NJ-WRD Well Number, 23-0229.

LOCATION.--Lat 40°20'15", long 74°27'57". Hydrologic Unit 02030105, Hanover Lane at Rossmoor, Monroe Township.

Owner: Monroe Township Municipal Utilities Authority.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 330 ft screened 319 to 330 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 147.34 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 1.50 ft below land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Apr. 1965 to current year. Records for 1965 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 80.09 ft below land surface, July 16, 1973; lowest, 101.23 ft below land surface, between June 22 and Sept. 28, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 20, 1993	90.18	92.99	DEC. 20, 1993	91.53
DEC. 20, 1993 TO MAR. 24, 1994	89.46	91.55	MAR. 24, 1994	89.76
MAR. 24, 1994 TO JUNE 21, 1994	88.56	91.61	JUNE 21, 1994	91.22
JUNE 21, 1994 TO OCT. 3, 1994	90.57	94.04	OCT. 3, 1994	91.00

NJ-WRD WELL NO. 23-0229

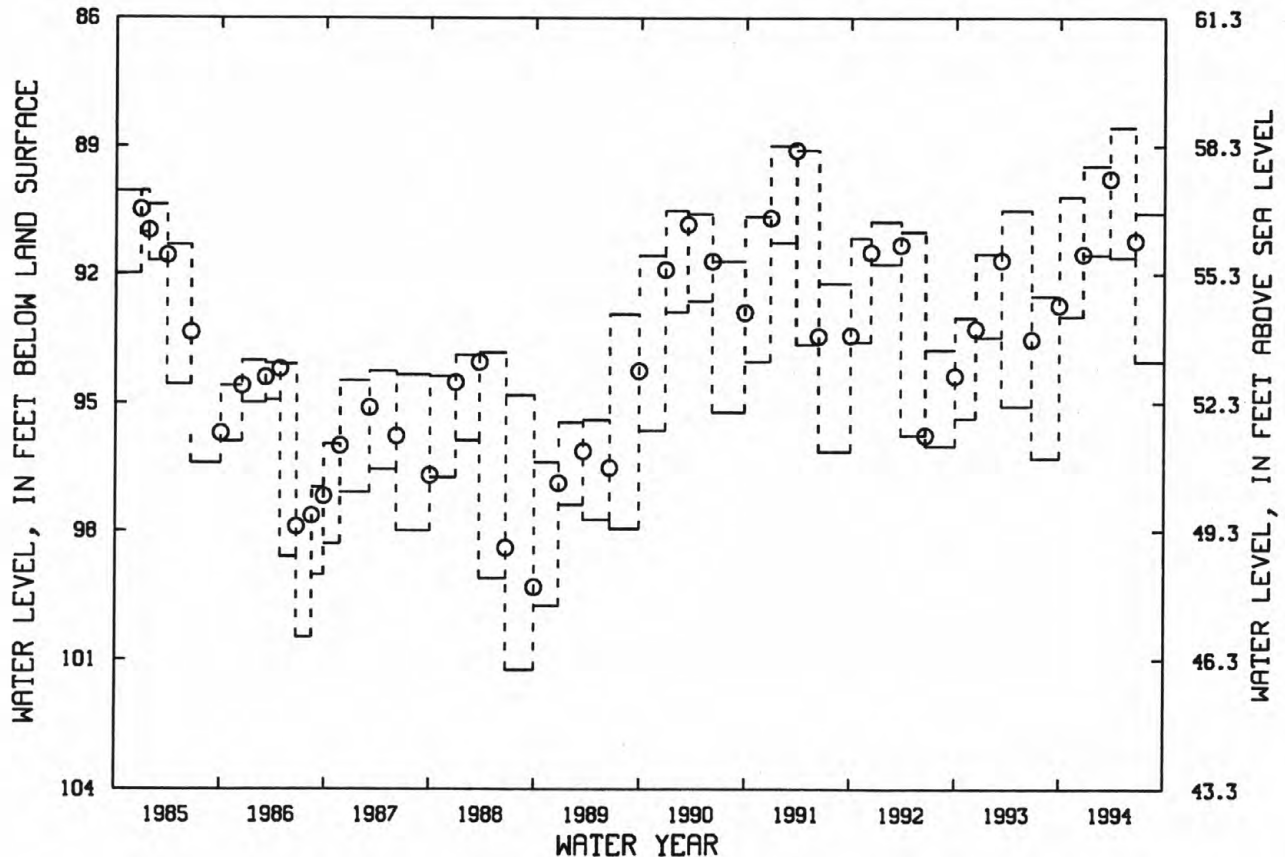
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

— LOWEST WATER LEVEL



MIDDLESEX COUNTY

402109074301301. Local I.D., Forsgate 1 Obs. NJ-WRD Well Number, 23-0291.

LOCATION.--Lat 40°21'09", long 74°30'13", Hydrologic Unit 02030105, along Friendship Rd., about 0.4 mi west of Rt. 130, South Brunswick Township.

Owner: Monroe Township Municipal Utilities Authority.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 203 ft, screened 192 to 203 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 106.79 ft above sea level.

Measuring point: Top of shelf, 1.90 ft above land surface.

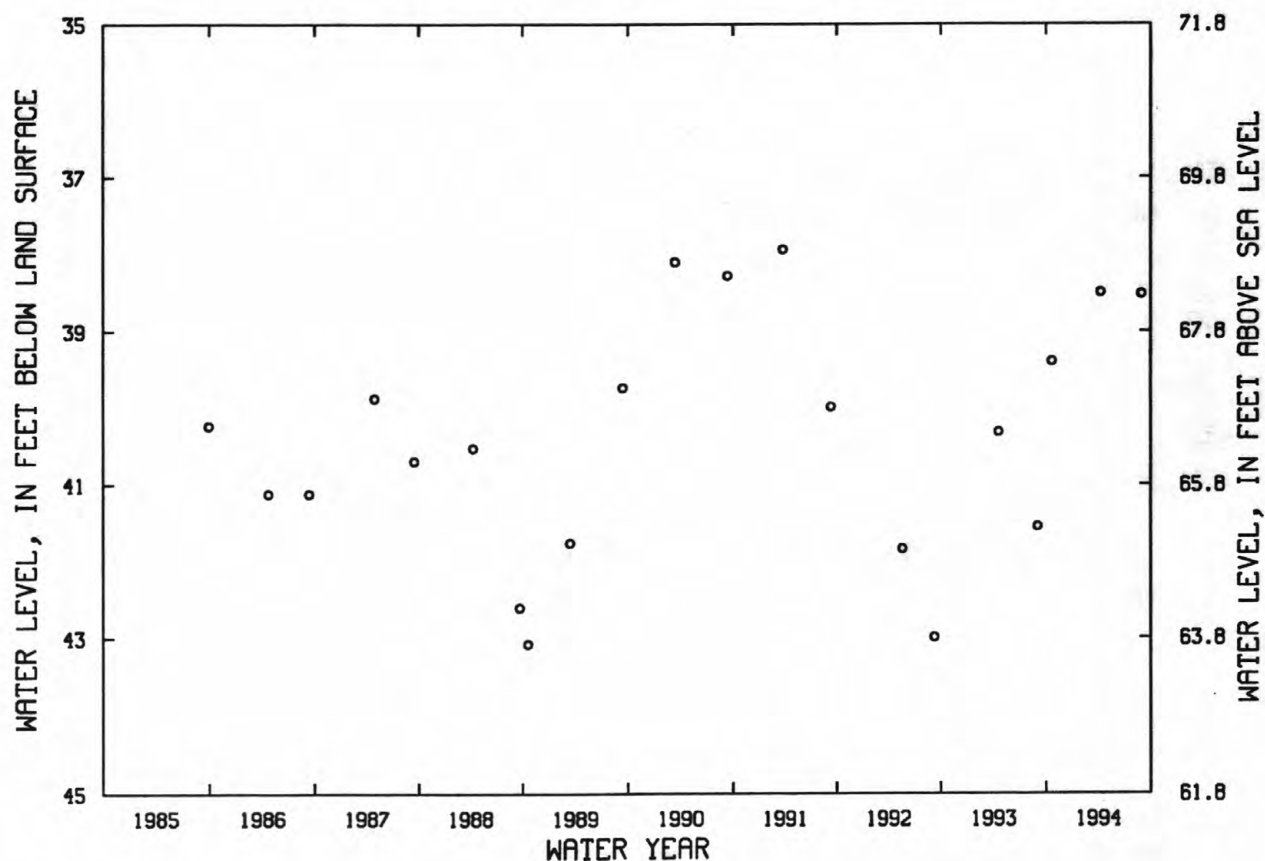
PERIOD OF RECORD.--Apr. 1965 to current year. Records for 1965 to 1975 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.70 ft below land surface, July 5, 1973; lowest, 44.31 ft below land surface, between Jan. 12 and Apr. 21, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	39.39	APR 11	38.50	AUG 30	38.52

NJ-WRD WELL NO. 23-0291



MIDDLESEX COUNTY

402109074301302. Local I.D., Forsgate 2 Obs. NJ-WRD Well Number, 23-0292.

LOCATION.--Lat 40°21'09", long 74°30'12", Hydrologic Unit 02030105, along Friendship Rd., about 0.4 mi west of Rt. 130, South Brunswick Township.

Owner: Monroe Township Municipal Utilities Authority.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 104 ft, screened 93 to 104 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 106.89 ft above sea level.

Measuring point: Top of shelf, 2.60 ft above land surface.

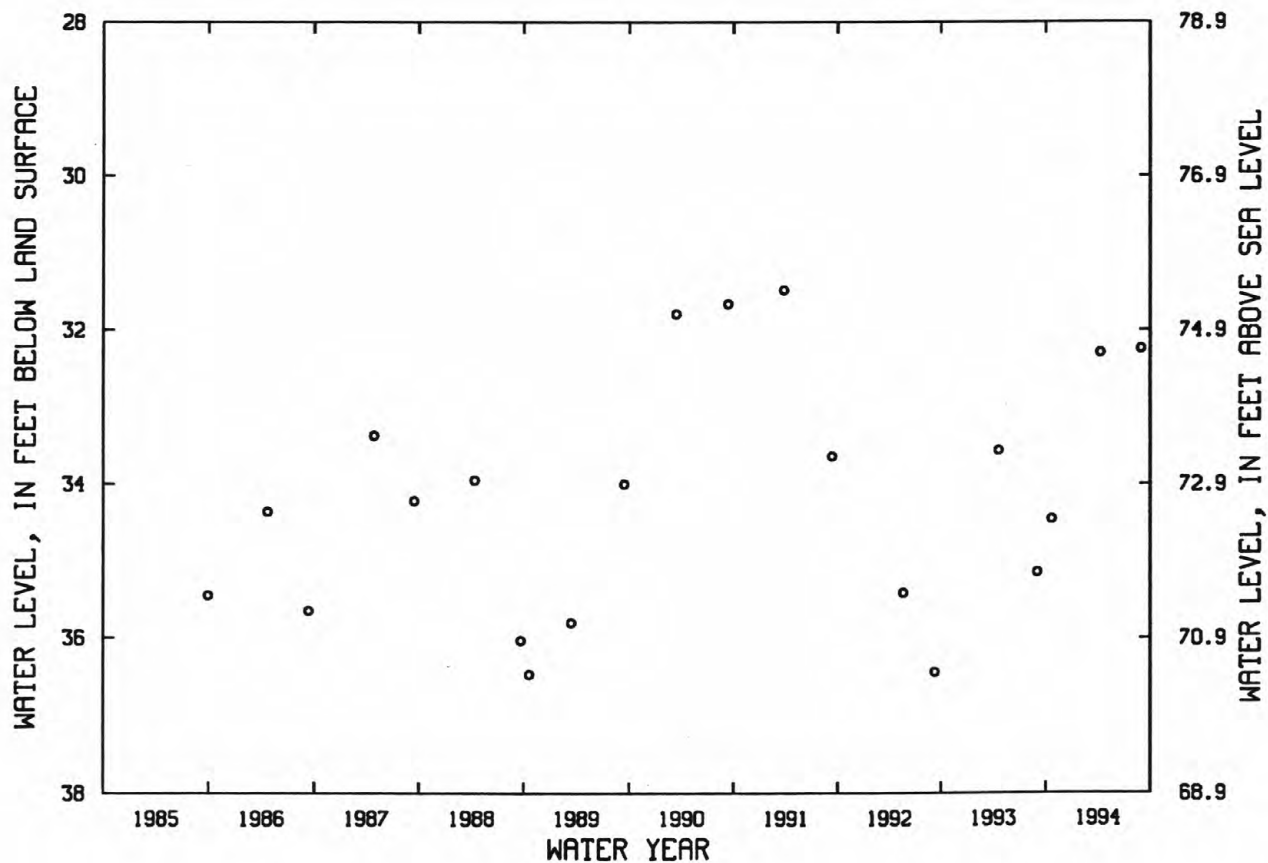
PERIOD OF RECORD.--October 1961 to current year. Records for 1961 to 1983 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.09 ft below land surface, May 2-3, 1962; lowest, 36.98 ft below land surface, Sept. 29, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	34.45	APR 11	32.29	AUG 30	32.24

NJ-WRD WELL NO. 23-0292



GROUND-WATER LEVELS

MIDDLESEX COUNTY

402143074185201. Local I.D., Morrell 1 Obs. NJ-WRD Well Number 23-0104.

LOCATION.--Lat 40°21'43", long 74°18'49", Hydrologic Unit 02030105, on the north side of Texas Rd., about 0.4 mi east of Rt. 9, Old Bridge Township.

OWNER: Olympia and York Bridge Development Corp.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Dug water-table observation well, diameter 17 in., depth 11 ft, cased with precast concrete rings.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 76.75 ft above sea level.

Measuring point: Top of concrete ring, 0.20 ft above land surface.

REMARKS.--Well depth was 6 ft before deepening in Sept. 1932.

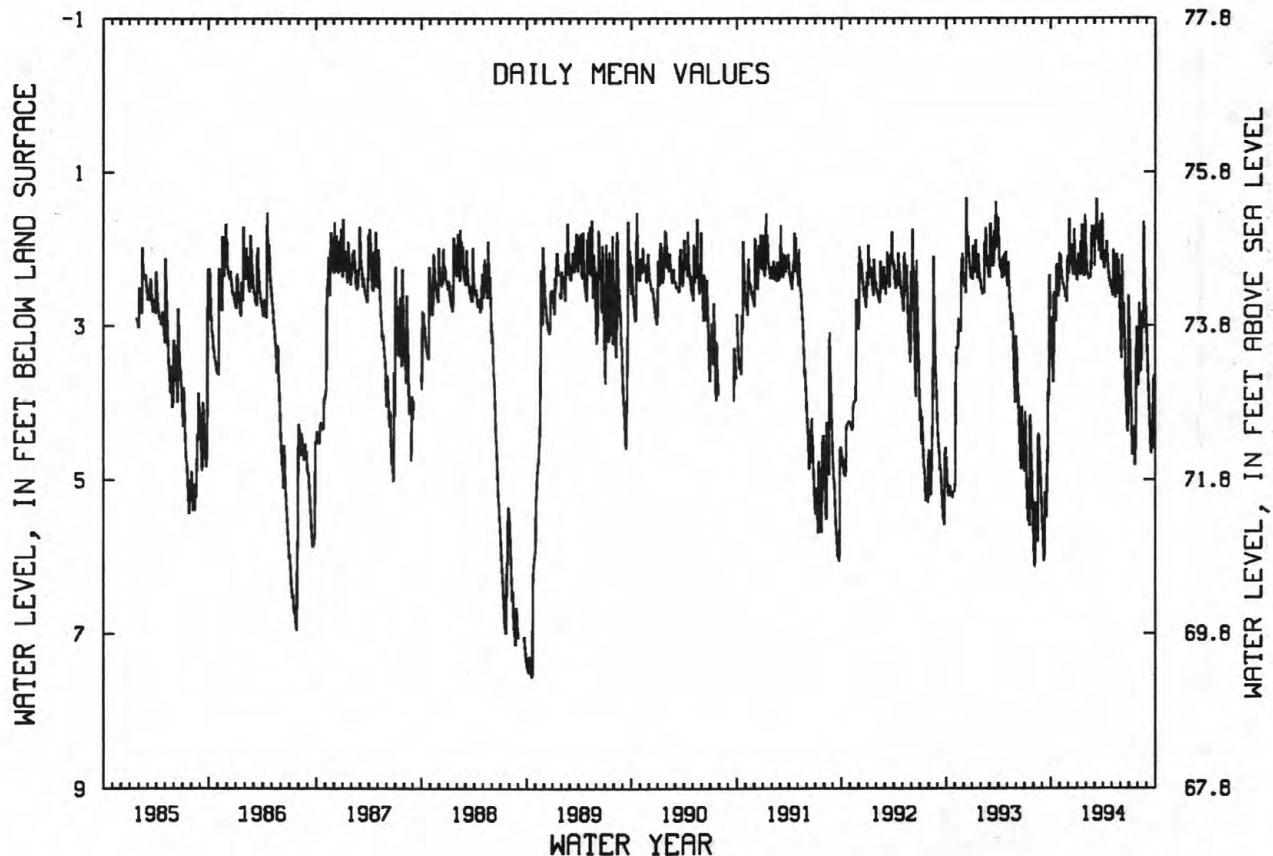
PERIOD OF RECORD.--Oct. 1923 to current year. Records for 1973 to 1985 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land surface, Sept. 19, 1989; lowest, 10.40 ft below land surface datum, Oct. 13, 1953. Well was dry, Aug. to Sept. 1932, before deepening.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.34	2.20	1.61	2.07	2.28	1.84	2.25	2.57	3.42	3.24	3.52	3.56
10	3.70	2.37	2.21	2.32	2.40	1.35	2.18	2.30	2.67	4.06	3.41	4.12
15	2.70	2.46	2.22	2.00	2.37	1.70	2.08	2.64	3.06	4.37	2.84	4.58
20	2.85	2.53	2.27	2.13	1.90	2.03	2.27	2.07	3.72	4.46	3.04	4.49
25	2.47	2.68	2.18	2.33	1.82	2.09	2.42	2.58	4.10	4.58	2.31	3.70
EOM	2.06	2.20	2.41	1.99	---	2.02	2.41	2.77	3.02	3.30	2.99	3.84
MEAN	2.88	2.41	2.17	2.13	2.16	1.86	2.23	2.42	3.32	3.93	2.96	4.01
WTR YR 1994	MEAN 2.71 HIGH 0.98 AUG 22 LOW 4.89 JUL 22											

NJ-WRD WELL NO.23-0104



MIDDLESEX COUNTY

402536074201801. Local I.D., Runyon 1 Obs. NJ-WRD Well Number, 23-0194.

LOCATION.--Lat 40°25'36", long 74°20'18", Hydrologic Unit 02030105, at the Runyon Watershed, Old Waterworks Rd., Old Bridge Township.

Owner: Perth Amboy Water Department.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 18 in., depth 281 ft, screened 201 to 231 ft and 251 to 281 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 18.30 ft above sea level.

Measuring point: Top of casing, 0.00 ft above land surface.

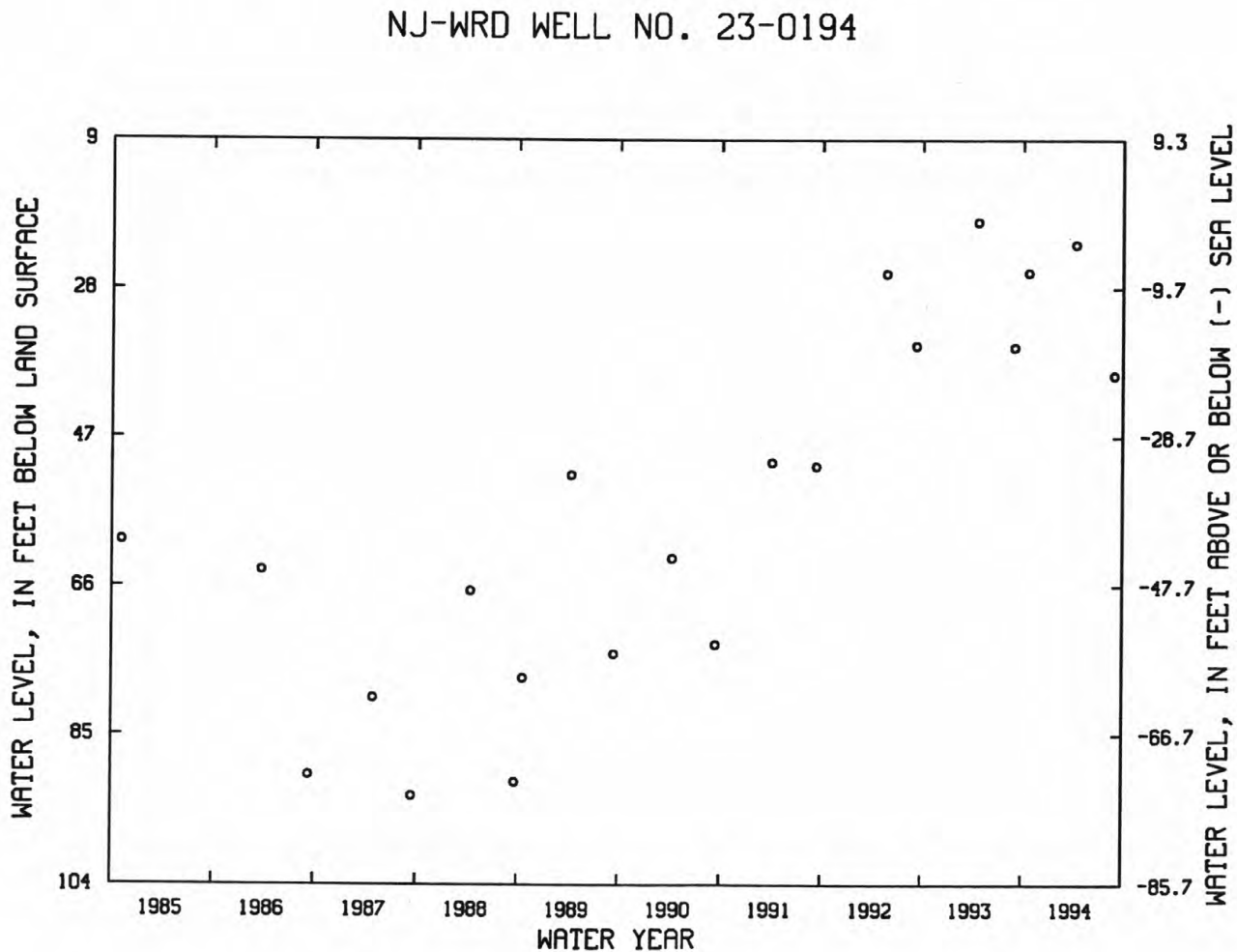
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Aug. 1934 to current year. Records for 1934 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.50 ft below land surface, Mar. 1, 1943, Mar. 26, 1944; lowest, 109.32 ft below land surface, Oct. 21, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	25.92	APR 11	22.33	AUG 30	39.09



MIDDLESEX COUNTY

402553074271701. Local I.D., Fischer Obs. NJ-WRD Well Number, 23-0070.

LOCATION.--Lat 40°25'55", long 74°27'19", Hydrologic Unit 02030105, 32 Beaver Dam Dr. and Hardenburg Lane, East Brunswick Township.

Owner: Abe Weiss.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Dug water-table observation well, diameter 54 in., depth 21 ft, lined with concrete blocks.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Water-level extremes recorder, Jan. 1977 to Apr. 1985.

DATUM.--Land surface is 73.00 ft above sea level.

Measuring point: Top of angle iron at bottom of shelter doors, 1.70 ft above land surface.

REMARKS.--Well deepened on Oct. 29, 1965 from 17 to 21 ft.

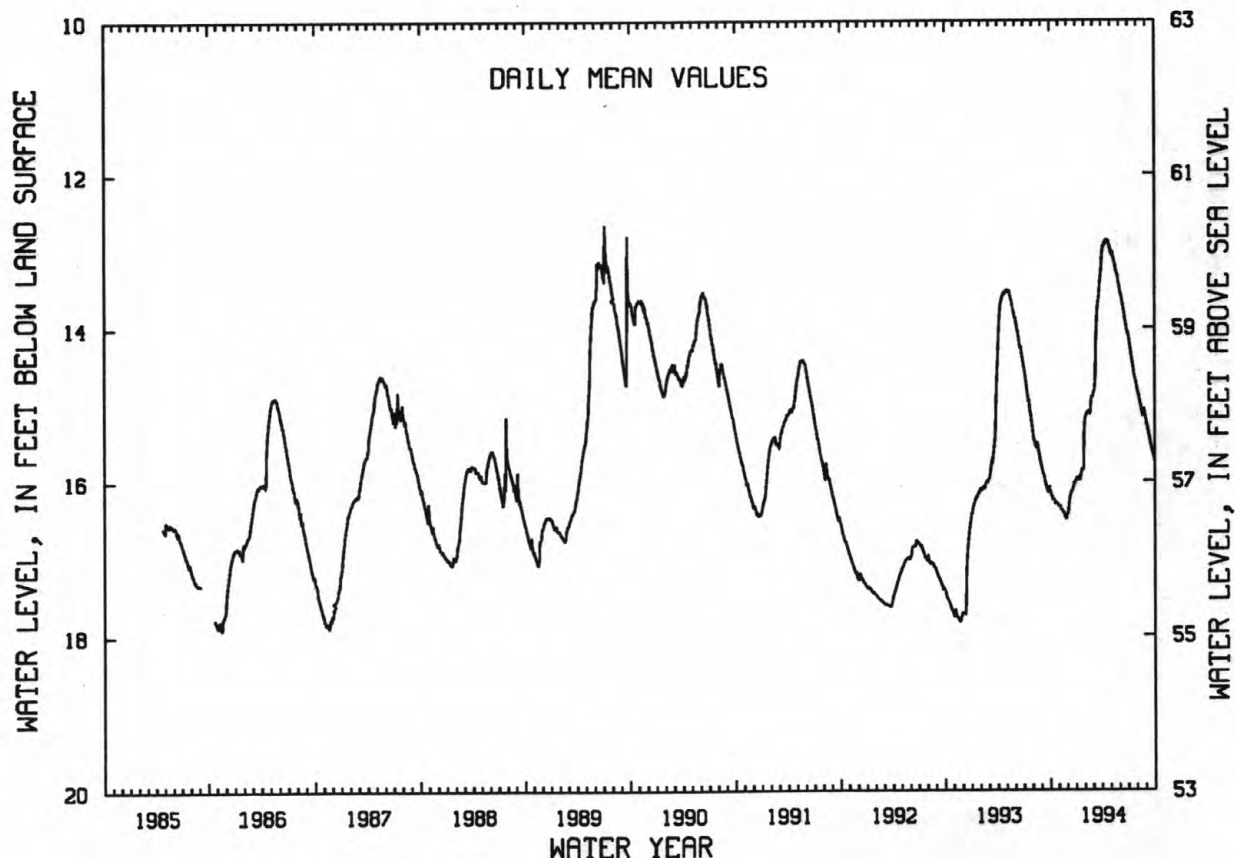
PERIOD OF RECORD.--June 1936 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.88 ft below land surface, Apr. 26-27, 1939; lowest, 19.11 ft below land surface, between July 24 and Oct. 6, 1981. Well was dry many times from 1963 to 1965, before deepening.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.18	16.32	16.35	15.98	15.14	14.83	12.96	13.01	13.56	14.16	14.86	15.28
10	16.23	16.38	16.21	16.00	15.13	14.54	12.89	13.08	13.64	14.29	14.95	15.39
15	16.24	16.40	16.13	15.95	15.10	13.83	12.88	13.16	13.76	14.42	15.05	15.50
20	16.30	16.42	16.11	15.88	15.10	13.63	12.88	13.26	13.89	14.55	15.14	15.59
25	16.28	16.49	16.02	15.85	14.91	13.41	12.89	13.32	13.99	14.66	15.06	15.65
EOM	16.31	16.43	16.00	15.26	14.91	13.18	12.96	13.44	14.06	14.76	15.19	15.75
MEAN	16.24	16.41	16.16	15.87	15.07	13.99	12.93	13.19	13.77	14.44	15.01	15.49
WTR YR 1994 MEAN 14.88 HIGH 12.84 APR 16 LOW 16.50 NOV 25-27												

NJ-WRD WELL NO.23-0070



MIDDLESEX COUNTY

402558074201301. Local I.D., SWD 2 Obs. NJ-WRD Well Number, 23-0344.

LOCATION.--Lat 40°25'58", long 74°20'13", Hydrologic Unit 02030105, 1,200 ft west of the Sayerville Water Treatment Plant, Old Bridge-South Amboy Rd., Sayerville Borough.

Owner: Sayerville Water Department.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 37 ft, screened 31 to 37 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 22.19 ft above sea level.

Measuring point: Top of well shelter shelf, 2.00 ft above land surface.

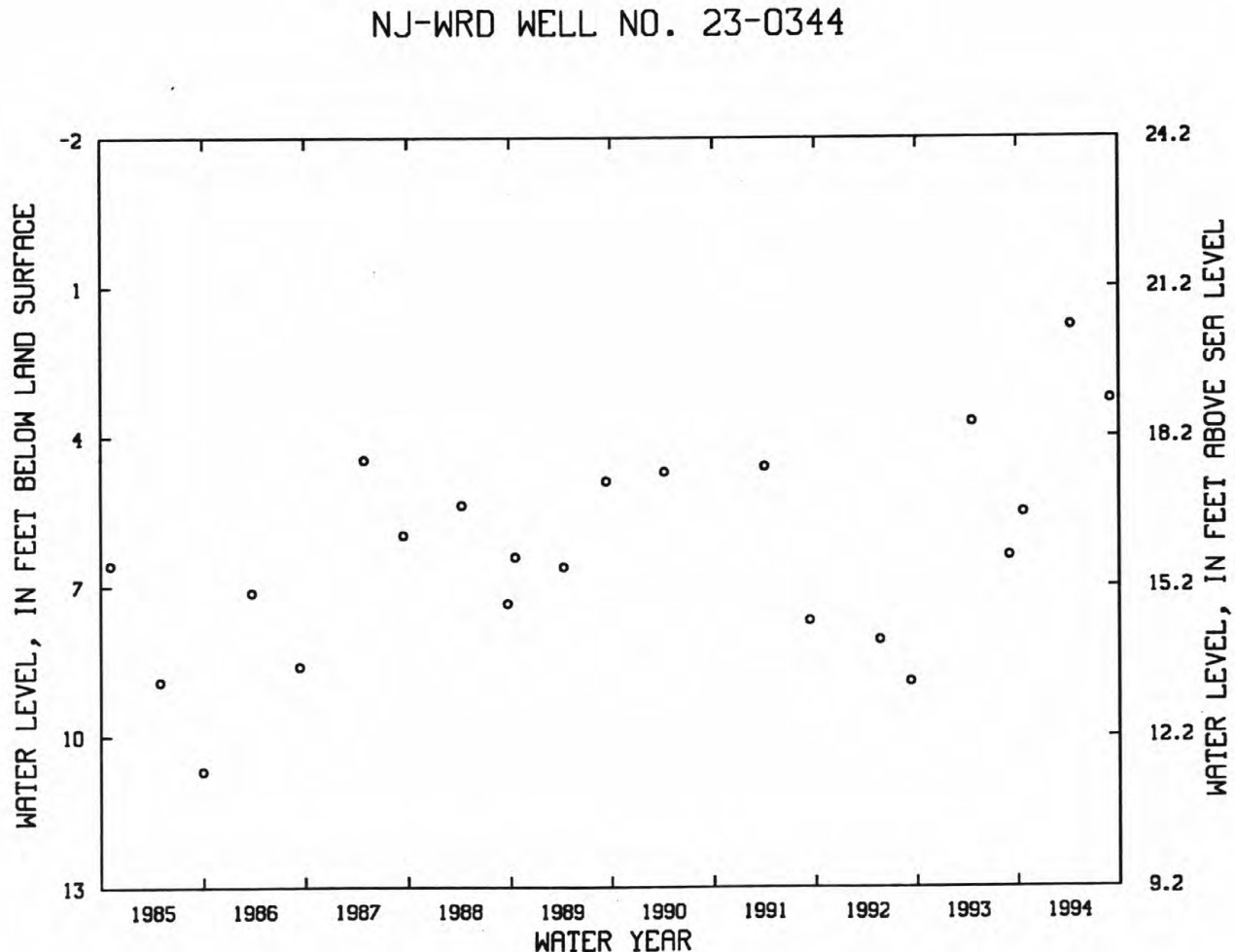
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Nov. 1968 to current year. Records for 1968 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.75 ft below land surface, Apr. 11, 1994; lowest, 14.04 ft below land surface, Nov. 30, 1969, Dec. 16, 1969, Nov. 17-22, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	5.51	APR 11	1.75	AUG 30	3.25



MIDDLESEX COUNTY

402608074195701. Local I.D., SWD 1 Obs. NJ-WRD Well Number, 23-0351.

LOCATION.--Lat 40°26'05", long 74°19'59", Hydrologic Unit 02030105, near the Sayerville Water Treatment Plant, Old Bridge-South Amboy Rd, Sayerville Borough.

Owner: Sayerville Water Department.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 82 ft, screened 76 to 82 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 35.27 ft above sea level.

Measuring point: Top of casing, 1.70 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

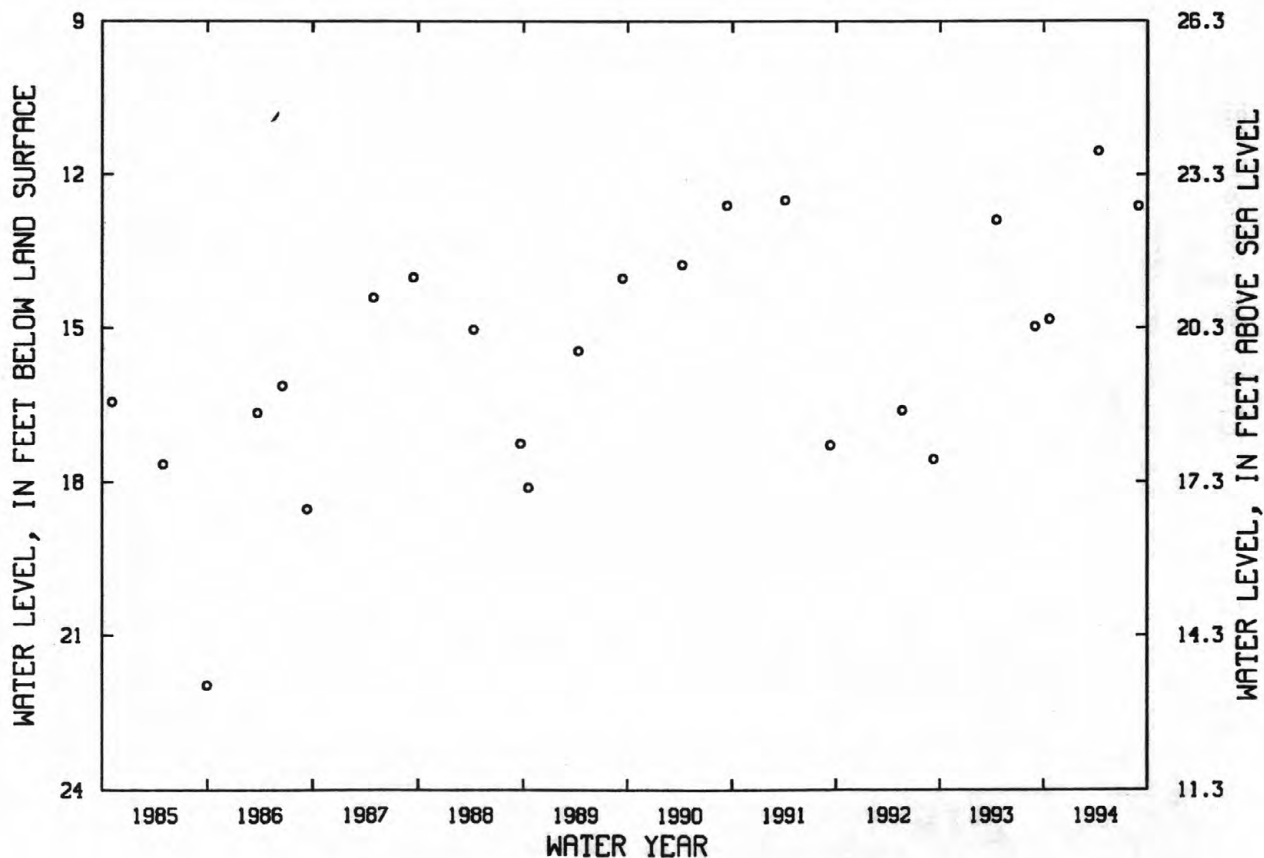
PERIOD OF RECORD.--Nov. 1968 to current year. Records for 1968 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.17 ft below land surface, Nov. 8, 1979; lowest, 27.20 ft below land surface, Dec. 16, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	14.83	APR 11	11.54	AUG 30	12.61

NJ-WRD WELL NO. 23-0351



MIDDLESEX COUNTY

402623074212701. Local I.D., Duh Say 4 Obs. NJ-WRD Well Number, 23-0365.

LOCATION.--Lat 40°26'33", long 74°21'20", Hydrologic Unit 02030105, in the auto salvage yard, Jernee Mill Rd, Sayerville Borough.

Owner: Duhernal Water Company.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 160 ft, screened 148 to 160 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 5.70 ft above sea level. Land surface was 11.00 ft above sea level prior to Dec. 1968.

Measuring point: Top of well shelter shelf, 3.00 ft above land surface. Measuring point was 1.47 ft above land surface prior to Dec. 1968.

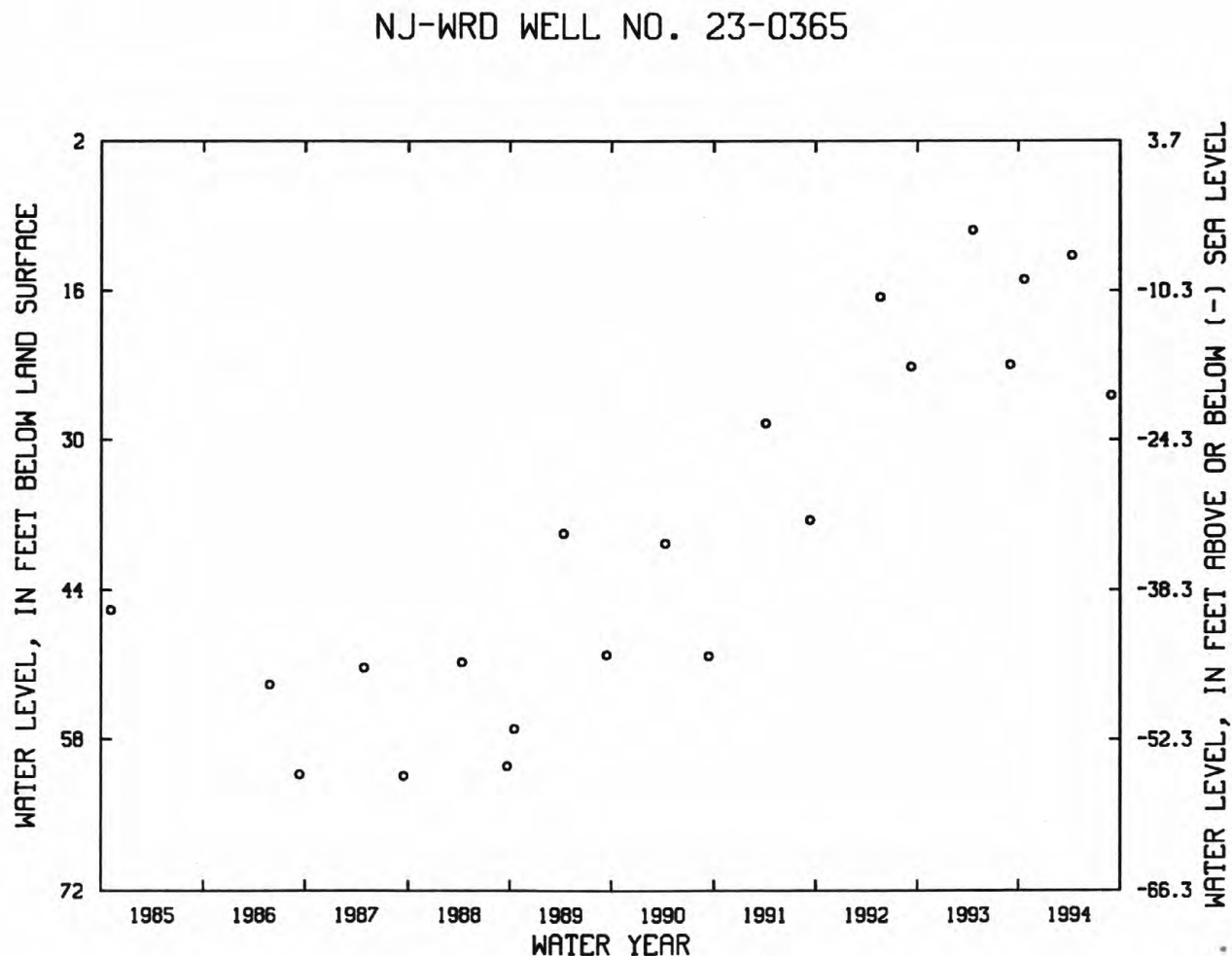
REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--Jan. 1936 to Nov. 1984, May 1986 to current year. Records for 1936 to 1984 and 1986 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.87 ft above land surface, Mar. 27, 1944; lowest, 72.00 ft below land surface, Oct. 21, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	14.94	APR 11	12.71	AUG 30	25.84



MIDDLESEX COUNTY

402633074220001. Local I.D., SRWD 2 Obs. NJ-WRD Well Number, 23-0439.

LOCATION.--Lat 40°26'33", long 74°22'00", Hydrologic Unit 02030105, at the corner of Whitehead Ave. and Anne St. South River Borough.

Owner: South River Water Department.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 5 in., depth 126 ft, screened 121 to 126 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 20.69 ft above sea level.

Measuring point: Top of coupling, 2.12 ft above land surface.

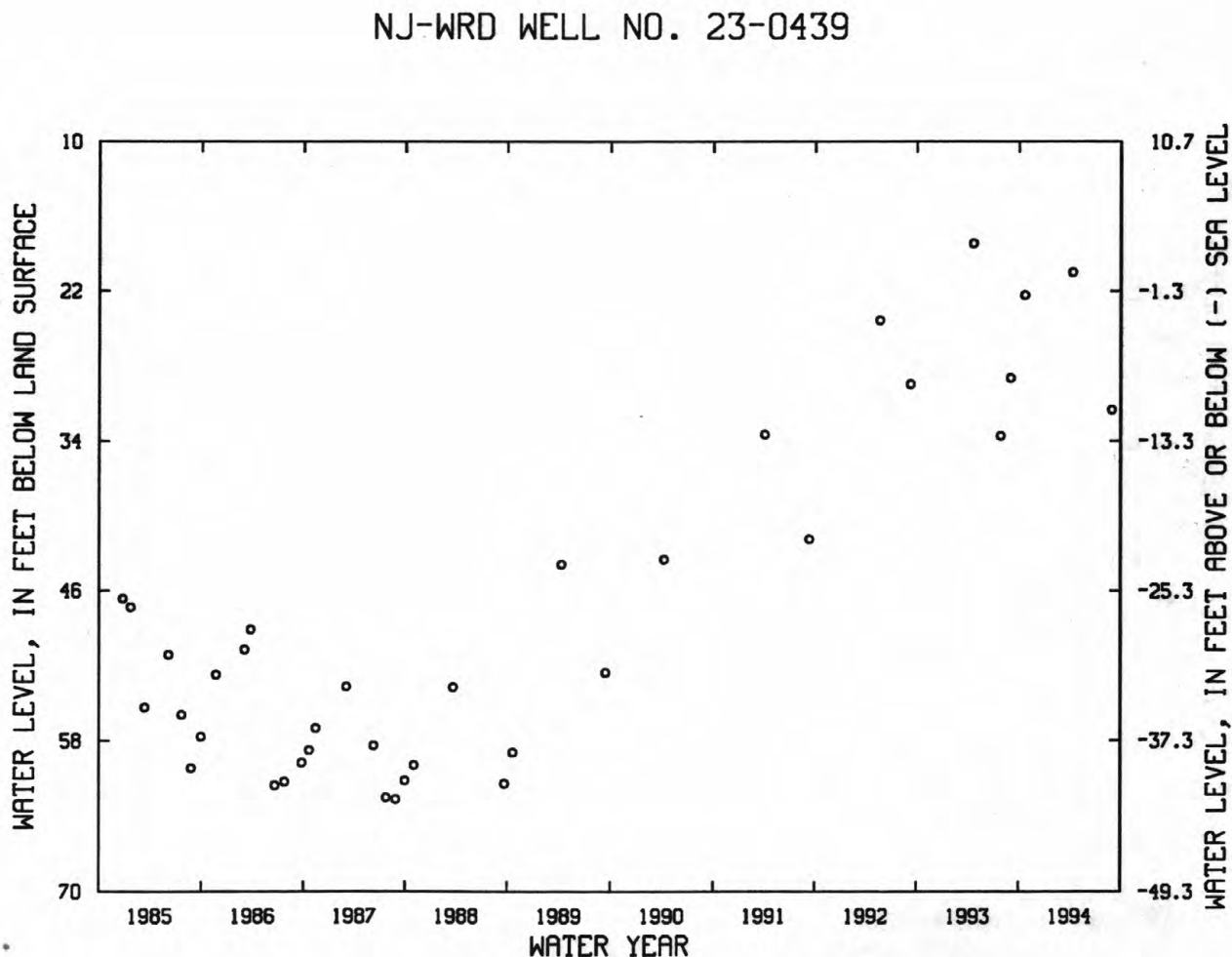
REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--January 1968 to current year. Records for 1968 to 1975 and 1988 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.19 ft below land surface, Apr. 20, 1993; lowest, 73.64 ft below land surface, between Aug. 25 and Oct. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	22.32	APR 11	20.49	AUG 30	31.48



MIDDLESEX COUNTY

403119074290301. Local I.D., Rutgers Golf 13 Obs. NJ-WRD Well Number, 23-1165.

LOCATION.--Lat 40°31'08", long 74°28'12", Hydrologic Unit 02030105, at the Rutgers University Golf Course, Piscataway Township.

Owner: State of New Jersey.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 200 ft, open hole 50 to 200 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, June 1991 to May 1992.

DATUM.--Land surface is 58.8 ft above sea level.

Measuring point: Top of recorder shelf, 3.85 ft above land surface.

REMARKS.--Water level is affected by pumping of nearby irrigation well.

PERIOD OF RECORD.--June 1991 to current year.

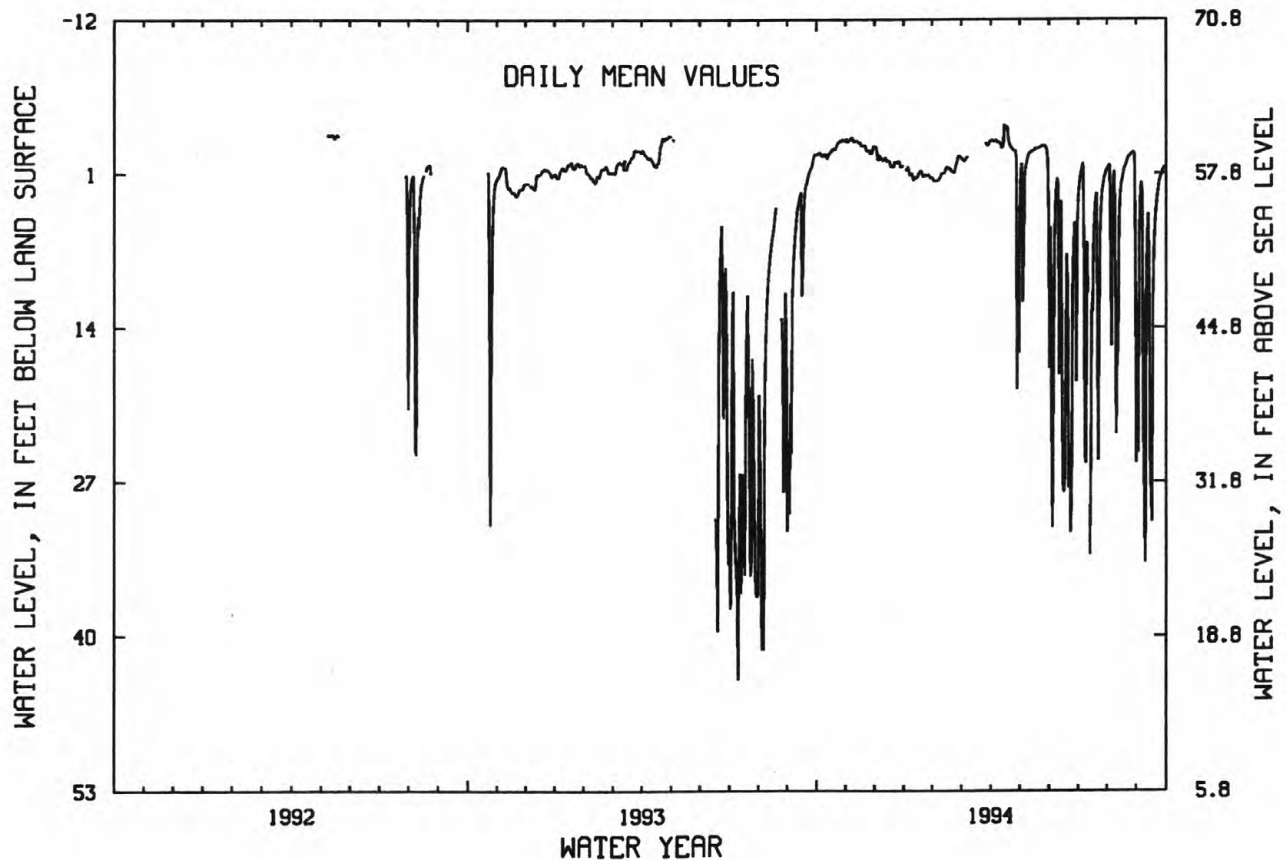
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.14 ft above land surface, Apr. 16, 18, 1994; lowest, 49.87 ft below land surface, Aug. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-.62	-2.00	-.54	.83	1.59	-.13	-1.75	7.46	19.39	.47	15.59	1.74
10	-.46	-1.78	-.22	1.57	.99	---	-1.55	-.60	2.04	6.80	22.94	10.97
15	-.85	-1.62	-.10	.98	.61	---	-3.11	-.91	27.35	11.94	1.92	28.62
20	-1.11	-1.40	.50	1.28	.87	---	-1.49	-1.12	11.48	2.66	.25	3.93
25	-1.76	-.72	-.07	1.07	-.06	---	-.97	-1.30	10.52	3.61	-.61	1.13
EOM	-1.89	-1.29	---	1.58	-.39	-1.74	16.08	4.82	5.08	.65	25.38	.44
MEAN	-1.08	-1.44	-.05	1.13	.79	---	.12	.24	14.58	8.42	4.40	9.64

WTR YR 1994 MEAN 3.17 HIGH -3.14 APR 16,18 LOW 45.17 JUN 24

NJ-WRD WELL NO.23-1165



MIDDLESEX COUNTY

403242074161701. Local I.D., Test 1 Obs. NJ-WRD Well Number, 23-0482.

LOCATION.--Lat 40°32'42", long 74°16'17", Hydrologic Unit 02030104, at the rear of plant near Cutters Dock Rd., Woodbridge Township.

Owner: American Cyanamid Company.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 76 ft, screened 44 to 54 ft and 64 to 76 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 11.00 ft above sea level.

Measuring point: Top of shelf, 2.10 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

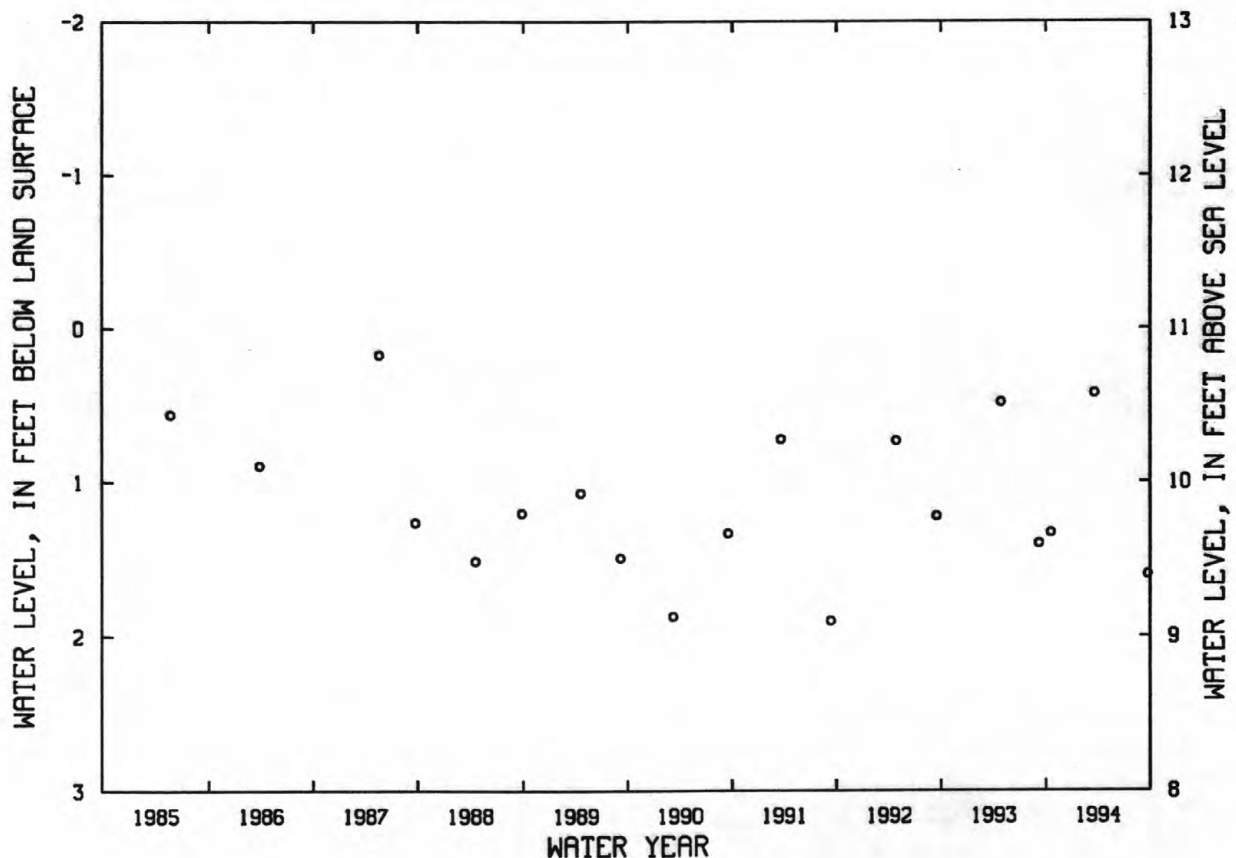
PERIOD OF RECORD.--Sept. 1950 to current year. Records for 1950 to 1982 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.34 ft above land surface, between Mar. 30 and July 17, 1984; lowest, 15.43 ft below land surface, between Aug 26 and Oct. 14, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	1.32	MAR 22	0.42	SEP 22	1.60

NJ-WRD WELL NO. 23-0482



MONMOUTH COUNTY

400711074020201. Local I.D., DOE - Sea Girt Obs. NJ-WRD Well Number, 25-0486.

LOCATION.--Lat 40°07'11", long 74°02'02", Hydrologic Unit 02040301, at the National Guard Camp, Sea Girt, Sea Girt Borough.

Owner: State of New Jersey.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 614 ft, perforated casing 604 to 614 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 10 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.20 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

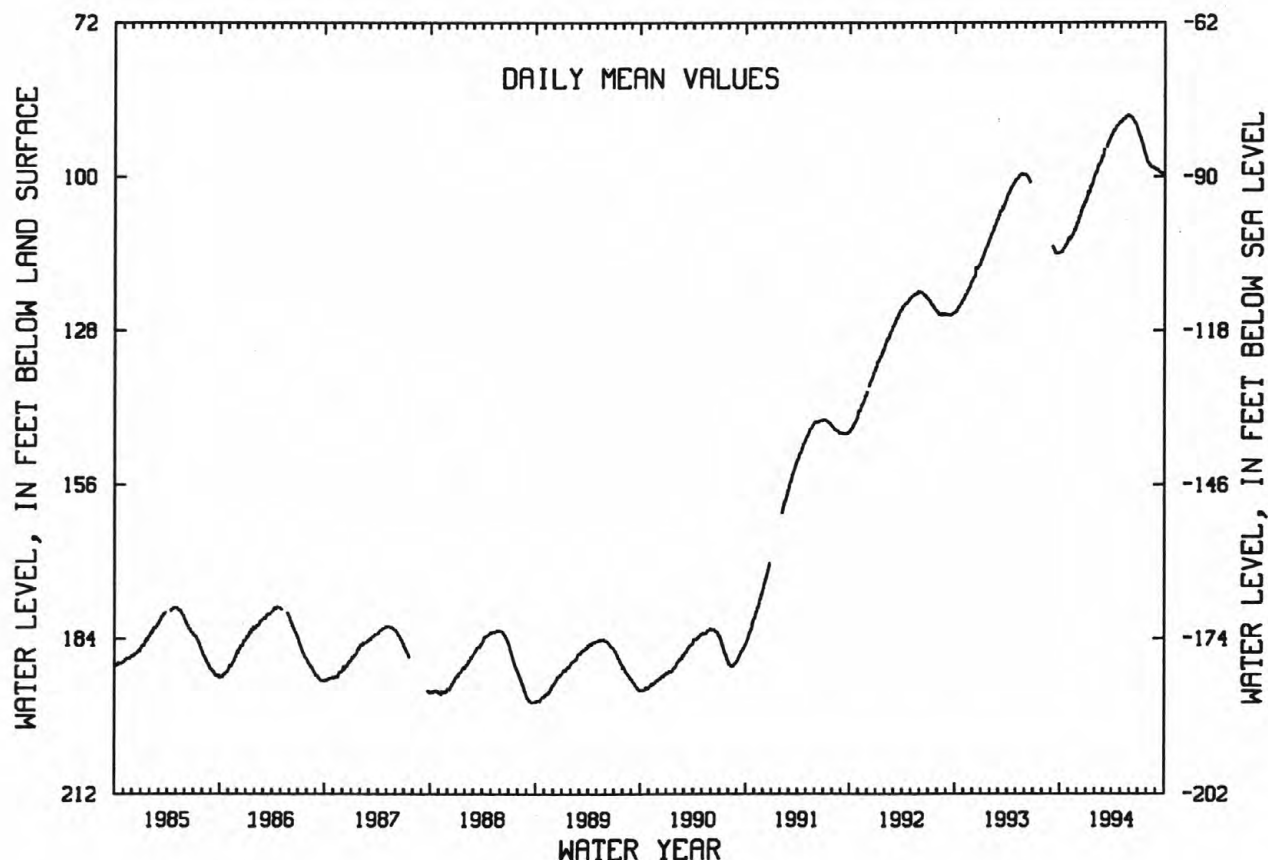
PERIOD OF RECORD.--May 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.51 ft below land surface, May 26-27, 1994; lowest, 195.60 ft below land surface, Sept. 17, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.70	111.09	107.31	103.10	98.97	---	91.80	89.66	89.15	92.40	97.48	98.64
10	113.27	110.85	106.87	103.03	98.27	---	91.42	89.57	89.43	93.12	97.93	98.96
15	112.98	110.25	105.83	101.69	97.76	94.06	90.95	89.44	89.87	94.01	98.20	99.19
20	112.44	109.54	105.43	101.44	97.24	93.61	90.57	89.00	90.30	95.10	98.34	99.51
25	112.20	109.09	104.57	100.47	96.46	92.88	90.25	88.84	90.64	95.96	98.45	99.54
EOM	111.14	108.54	104.11	99.54	96.37	92.48	90.08	89.08	91.52	97.04	98.68	99.65
MEAN	112.76	110.15	106.00	101.72	97.76	93.70	91.01	89.33	89.98	94.32	98.07	99.17
WTR YR 1994	MEAN 98.79	HIGH 88.51	MAY 26-27	LOW 113.95	OCT 1-2							

NJ-WRD WELL NO.25-0486



MONMOUTH COUNTY

400832074082101. Local I.D., Allaire State Park C Obs. NJ-WRD Well Number, 25-0429.

LOCATION.--Lat 40°08'34", long 74°08'34", Hydrologic Unit 02040301, about 1.3 mi southeast of Lower Squankum off County Rt. 21, in Allaire State Park, Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 633 ft, screened 623 to 633 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 97.93 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 1.64 ft above land surface.

PERIOD OF RECORD.--Feb. 1964 to current year. Records for 1964 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 141.05 ft below land surface, Apr. 8, 1964; lowest, 249.89 ft below land surface, between June 24 and Sept. 28, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
OCT. 21, 1993 TO DEC. 22, 1993	166.63	175.73	DEC. 22, 1993	166.63
DEC. 22, 1993 TO MAR. 8, 1994	157.36	166.68	MAR. 8, 1994	157.36
MAR. 8, 1994 TO JUNE 22, 1994	151.43	157.36	JUNE 22, 1994	154.78
JUNE 22, 1994 TO OCT. 3, 1994	154.78	164.54	OCT. 3, 1994	164.30

NJ-WRD WELL NO. 25-0429

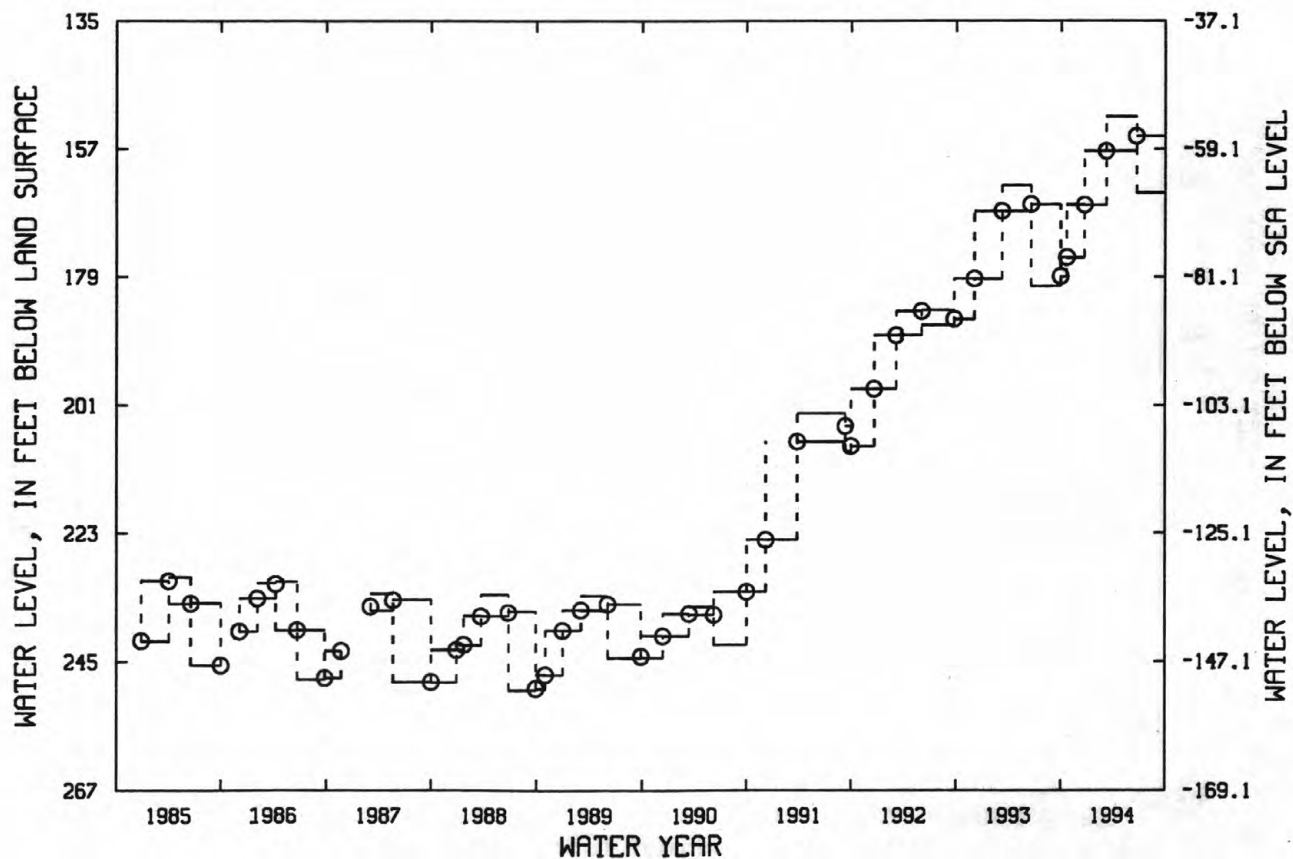
EXPLANATION

TIME PERIOD

○ HIGHEST WATER LEVEL

○ MEASURED WATER LEVEL

— LOWEST WATER LEVEL



MONMOUTH COUNTY

401105074120201. Local I.D., Howell Twp 1 Obs. NJ-WRD Well Number, 25-0635.

LOCATION.--Lat 40°11'05", long 74°12'02", Hydrologic Unit 02040301, on the south side of Peskin Rd., about 5,000 ft east of the intersection of Georgia Tavern Rd. and Peskin Rd., Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 2 in., depth 1,360 ft, screened 1,226 to 1,240, and 1,280 to 1,290 and 1,320 to 1,330 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.3 ft above sea level.

Measuring point: Top of recorder shelf, 2.10 ft above land surface.

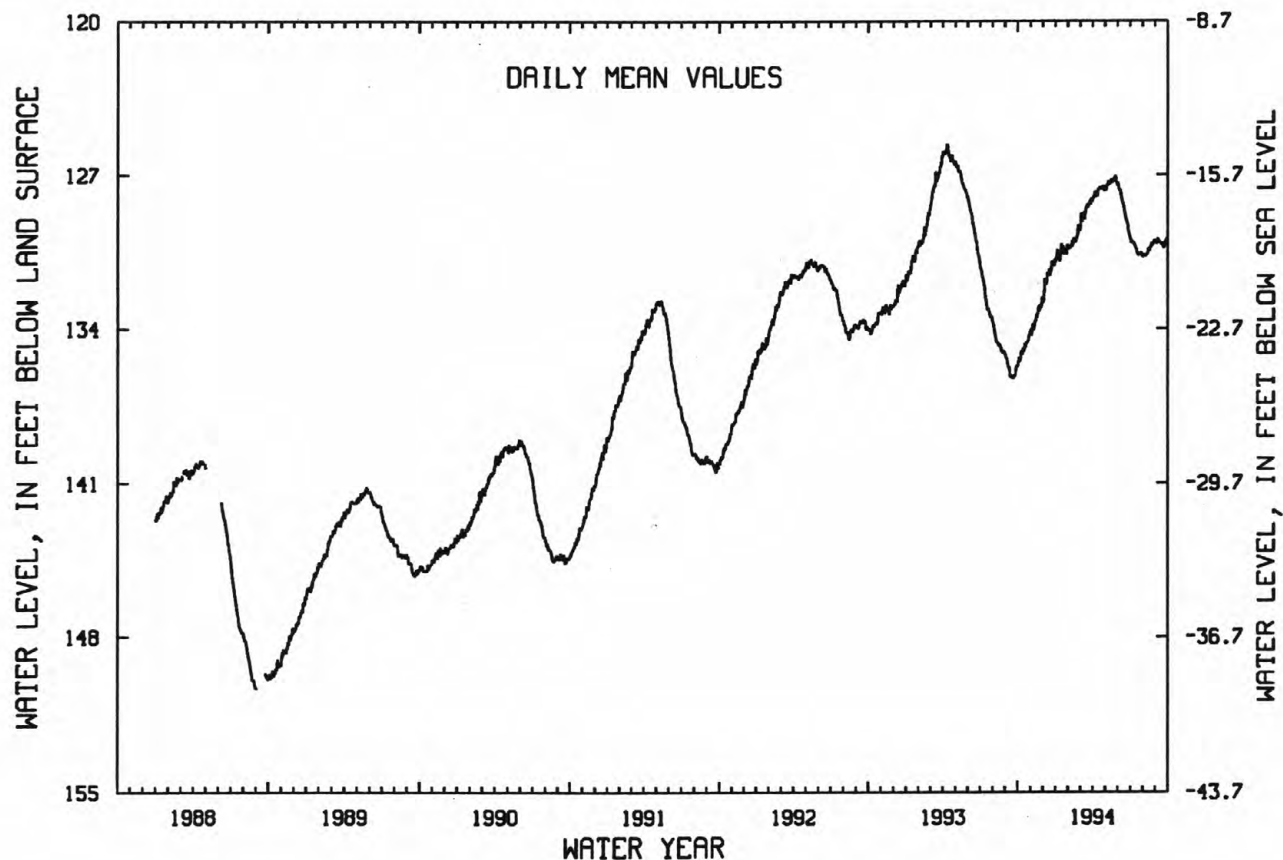
PERIOD OF RECORD.--Dec. 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 125.54 ft below land surface, Apr. 10-11, 1993; lowest, 150.32 ft below land surface, Sept. 2, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.36	133.90	131.74	130.65	130.21	128.93	127.94	127.47	127.72	130.12	130.62	130.02
10	135.12	133.79	131.73	130.96	130.29	128.73	127.83	127.41	128.07	130.10	130.63	130.05
15	134.99	133.35	131.33	130.28	129.94	128.55	127.70	127.34	128.50	130.36	130.39	130.18
20	134.77	132.98	131.33	130.63	129.92	128.44	127.60	127.34	129.00	130.66	130.32	130.33
25	134.52	133.05	130.95	130.49	129.42	128.20	127.51	127.09	129.27	130.61	130.19	130.10
EOM	134.05	132.80	130.98	130.38	129.53	128.19	127.61	127.44	129.80	130.75	130.07	129.96
MEAN	134.88	133.45	131.52	130.54	129.96	128.62	127.75	127.36	128.55	130.38	130.41	130.09
WTR YR 1994	MEAN 130.30	HIGH 127.01	MAY 27	LOW 135.71	OCT 1							

NJ-WRD WELL NO.25-0635



MONMOUTH COUNTY

401105074120202. Local I.D., Howell Twp 2 Obs. NJ-WRD Well Number, 25-0636.

LOCATION.--Lat 40°11'05", Long 74°12'02", Hydrologic Unit 02040301, on the south side of Peskin Rd., about 5,000 ft east of the intersection of Georgia Tavern Rd. and Peskin Rd., Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Vincentown aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 100 ft, screened 85 to 95 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.9 ft above sea level.

Measuring point: Top of recorder shelf, 1.20 ft above land surface.

REMARKS.--Water level is affected by the stage of the Manasquan Reservoir and by nearby pumping.

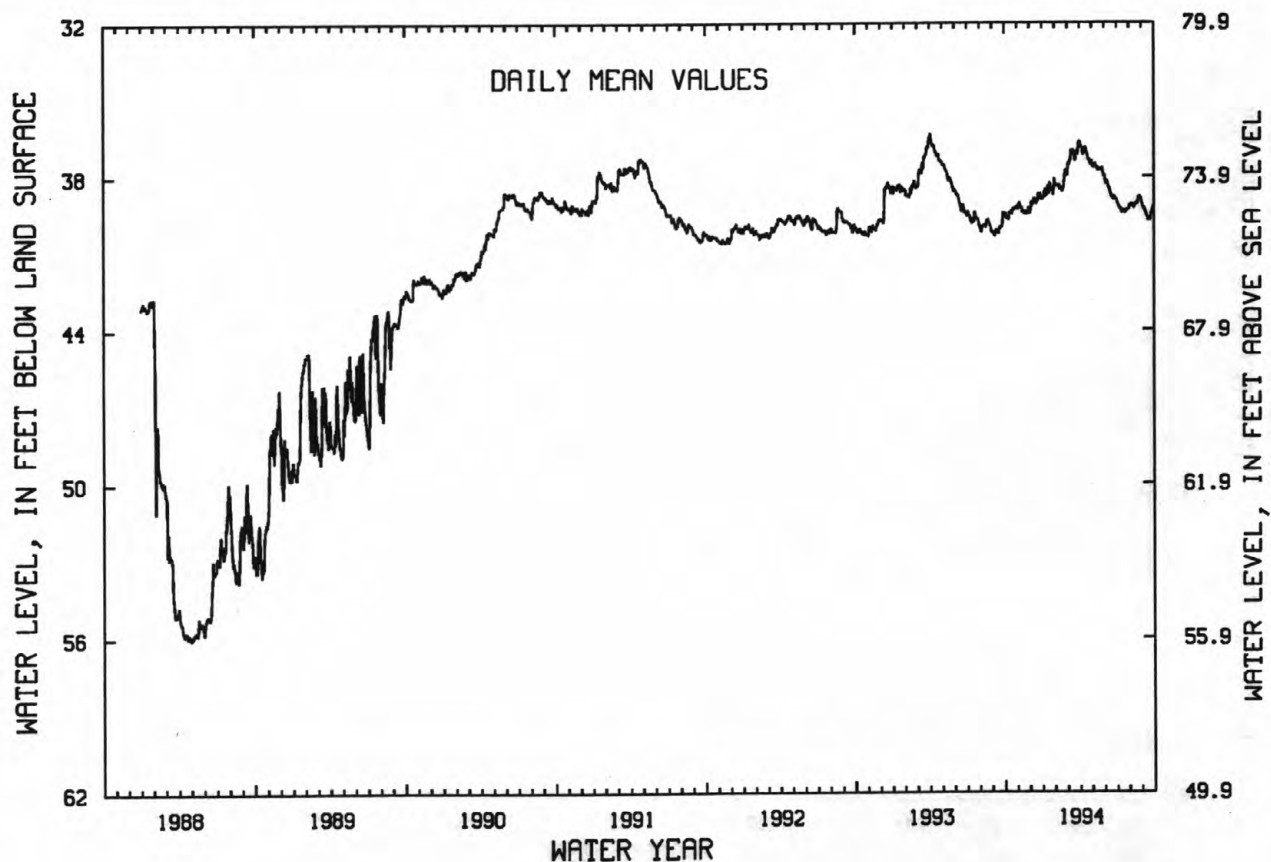
PERIOD OF RECORD.--Dec. 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.27 ft below land surface, Apr. 2, 1993; lowest, 56.09 ft below land surface, Apr. 29, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.56	39.12	38.99	38.70	38.30	37.49	36.91	37.53	38.30	39.11	39.10	39.27
10	39.61	39.20	39.01	38.76	38.52	37.11	37.04	37.59	38.38	39.20	39.17	39.41
15	39.41	39.33	38.88	38.46	38.51	36.97	36.93	37.77	38.62	39.30	39.06	39.65
20	39.44	39.33	38.97	38.48	38.46	37.37	37.20	37.71	38.82	39.37	39.09	39.71
25	39.25	39.45	38.64	38.56	37.77	37.02	37.35	37.76	38.76	39.32	38.78	39.41
EOM	39.14	39.39	38.91	38.28	37.94	36.66	37.44	37.99	38.87	39.28	38.99	39.25
MEAN	39.41	39.31	38.95	38.55	38.29	37.20	37.11	37.69	38.56	39.27	39.03	39.41
WTR YR 1994	MEAN 38.57 HIGH 36.61 APR 1 LOW 39.75 OCT 11											

NJ-WRD WELL NO.25-0636



MONMOUTH COUNTY

401105074120203. Local I.D., Howell Twp 3 Obs. NJ-WRD Well Number, 25-0637.

LOCATION.--Lat 40°11'05", long 74°12'02", Hydrologic Unit 02040301, on the south side of Peskin Rd., about 5,000 ft east of the intersection of Georgia Tavern Rd. and Peskin Rd., Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 324 ft, screened 307 to 317 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.9 ft above sea level.

Measuring point: Top of recorder shelf, 1.80 ft above land surface.

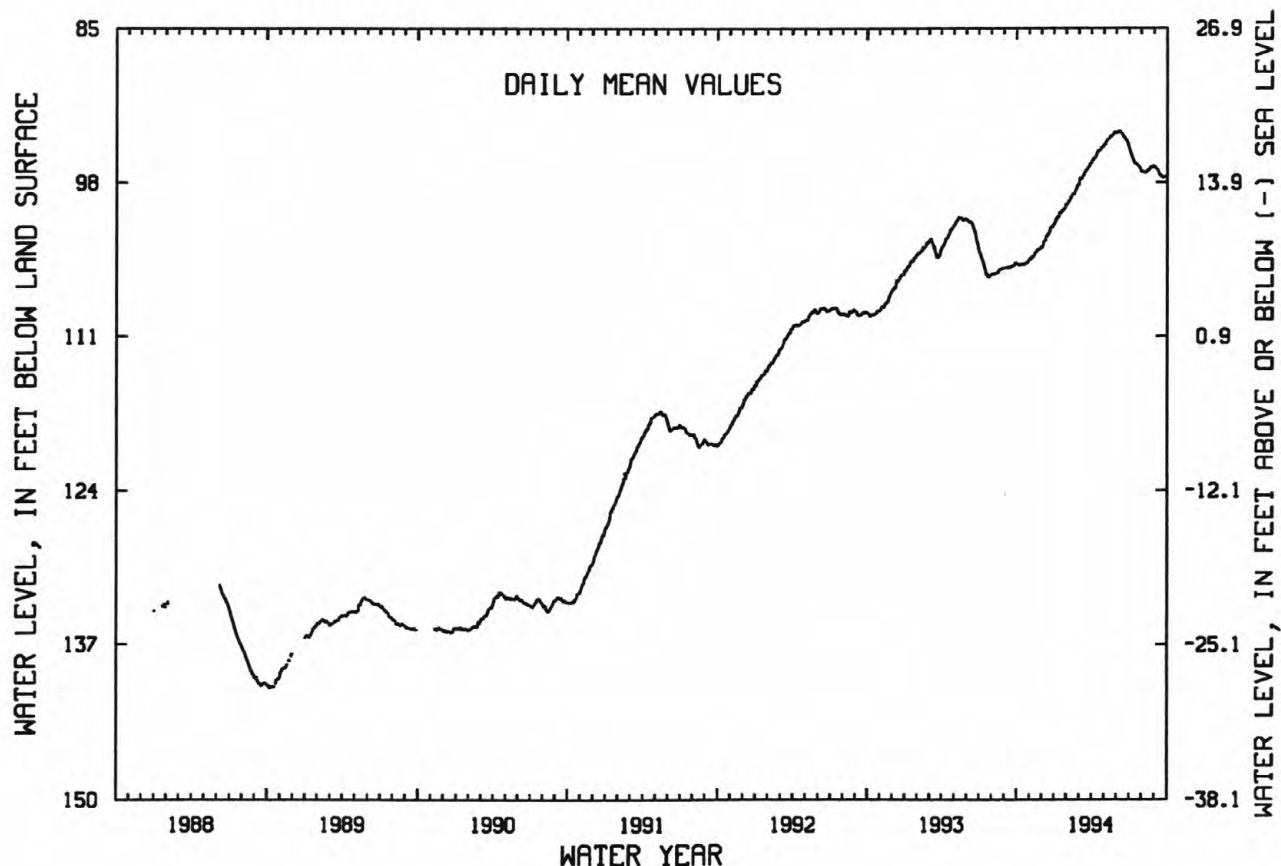
PERIOD OF RECORD.--Dec. 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 93.65 ft below land surface, Jun 7, 1994; lowest, 140.65 ft below land surface, Oct. 6-7, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	104.95	104.31	102.96	101.13	99.52	97.66	96.07	94.64	93.78	95.53	97.10	96.87
10	104.95	104.21	102.78	101.01	99.31	97.44	95.81	94.43	93.78	95.95	97.14	97.16
15	104.95	103.90	102.36	100.52	98.97	97.16	95.46	94.26	94.01	96.33	96.95	97.46
20	104.94	103.64	102.13	100.46	98.76	96.95	95.26	94.08	94.26	96.51	96.86	97.57
25	104.81	103.66	101.70	100.22	98.29	96.65	95.07	93.88	94.41	96.67	96.72	97.53
EOM	104.46	103.52	101.55	99.88	98.20	96.35	94.89	93.84	94.94	97.06	96.67	97.54
MEAN	104.86	103.96	102.39	100.60	99.00	97.15	95.53	94.24	94.11	96.23	96.93	97.28
WTR YR 1994	MEAN 98.53	HIGH 93.65	JUN 7	LOW 105.05	OCT 6,11							

NJ-WRD WELL NO.25-0637



MONMOUTH COUNTY

401105074120204. Local I.D., Howell Twp 4 Obs. NJ-WRD Well Number, 25-0638.

LOCATION.--Lat 40°11'05", long 74°12'02", Hydrologic Unit 02040301, on the south side of Peskin Rd., about 5,000 ft east of the intersection of Georgia Tavern Rd. and Peskin Rd., Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 499 ft, screened 483 to 493 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 112.1 ft above sea level.

Measuring point: Top of recorder shelf, 1.80 ft above land surface.

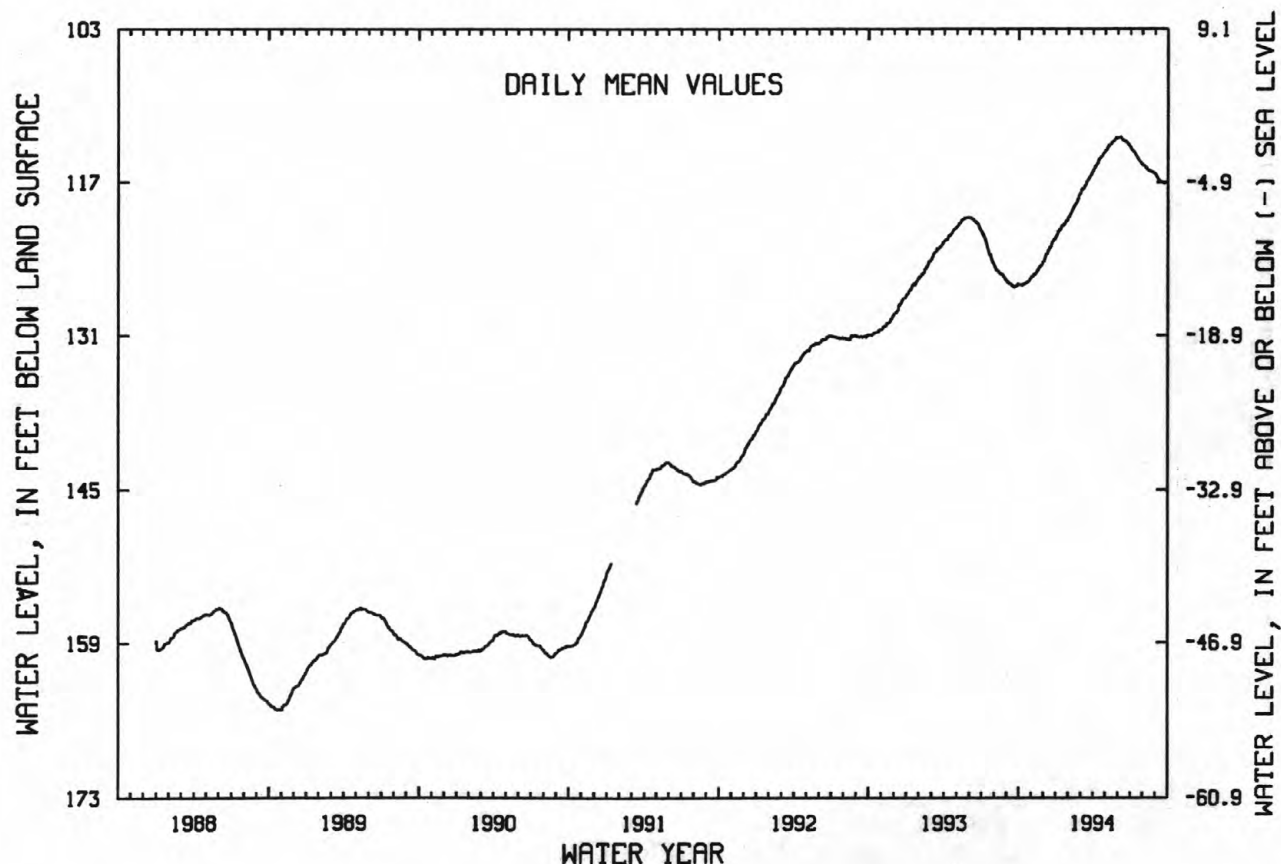
PERIOD OF RECORD.--Dec. 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.87 ft below land surface, June 7-8, 1994; lowest, 165.02 ft below land surface, Oct. 21, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	126.35	125.52	123.75	121.51	119.87	117.59	115.62	113.92	112.92	114.05	115.52	116.58
10	126.32	125.40	123.49	121.35	119.43	117.41	115.30	113.62	113.03	114.23	115.74	116.84
15	126.28	125.05	123.04	120.94	119.08	117.02	114.87	113.47	113.18	114.54	115.87	116.96
20	126.21	124.72	122.72	120.83	118.75	116.74	114.66	113.27	113.28	114.85	116.01	117.07
25	126.04	124.60	122.32	120.56	118.18	116.39	114.41	113.06	113.45	115.10	116.10	117.05
EOM	125.67	124.26	121.98	120.20	118.04	116.00	114.22	112.97	113.73	115.37	116.26	117.03
MEAN	126.19	125.04	123.02	121.00	119.11	116.98	114.97	113.44	113.21	114.60	115.86	116.87
WTR YR 1994	MEAN 118.36	HIGH 112.87	JUN 7-8	LOW 126.44	OCT 6-7							

NJ-WRD WELL NO.25-0638



MONMOUTH COUNTY

401105074120205. Local I.D., Howell Twp 5 Obs. NJ-WRD Well Number, 25-0639.

LOCATION.--Lat 40°11'05", long 74°12'02", Hydrologic Unit 02040301, on the south side of Peskin Rd., about 5,000 ft east of the intersection of Georgia Tavern Rd. and Peskin Rd., Howell Township.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 907 ft, screened 891 to 901 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 111.7 ft above sea level.

Measuring point: Top of recorder shelf, 2.40 ft above land surface.

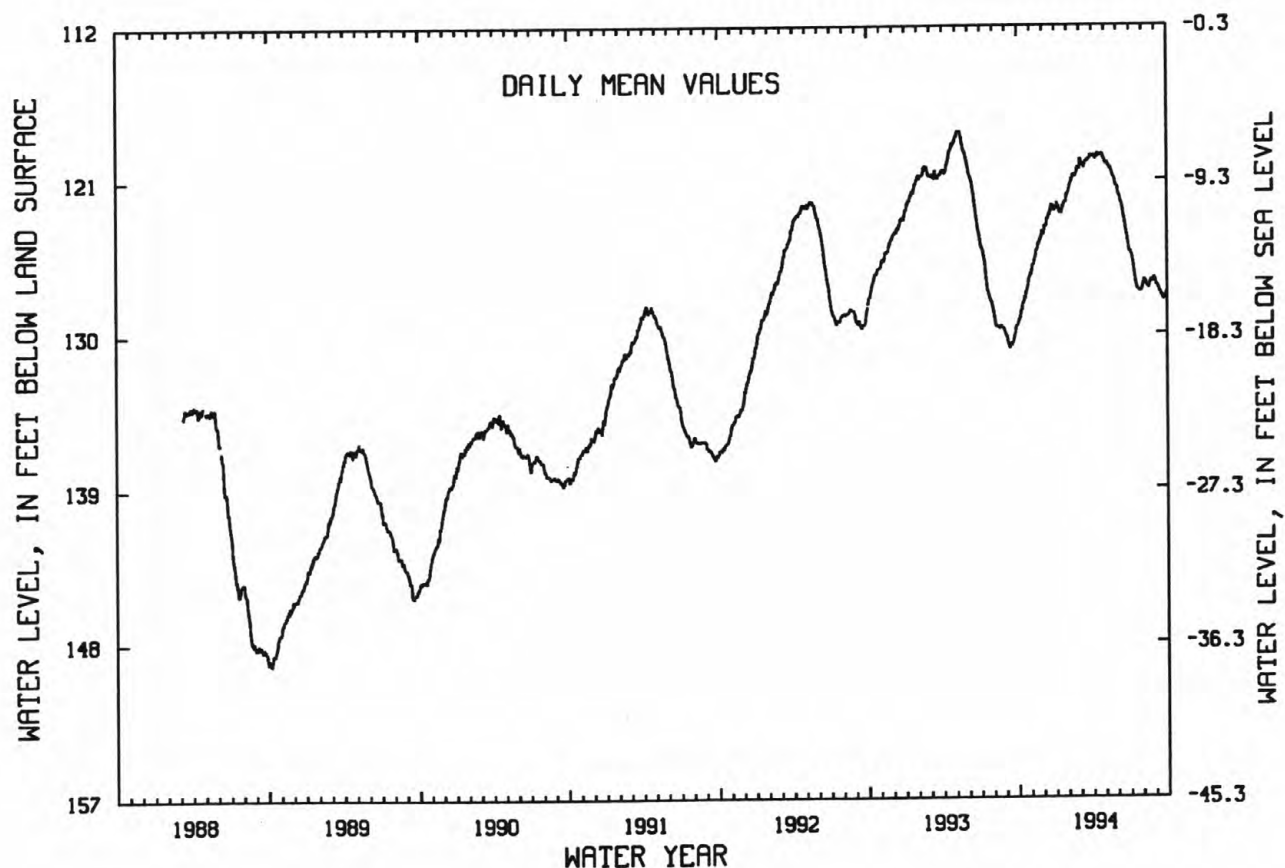
PERIOD OF RECORD.--Mar. 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 118.15 ft below land surface, May 6, 1993; lowest, 149.23 ft below land surface, Oct. 6-7, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	129.19	126.07	123.71	122.59	121.32	119.97	119.63	120.00	121.92	125.38	126.89	127.23
10	128.67	125.75	123.53	122.95	121.12	120.05	119.65	120.19	122.35	125.93	127.08	127.44
15	128.21	125.13	123.04	122.84	120.73	120.02	119.57	120.36	122.86	126.85	127.30	127.74
20	127.84	124.67	122.82	122.67	120.76	119.95	119.55	120.64	123.67	127.47	127.08	128.01
25	127.26	124.54	122.52	122.33	120.38	119.77	119.49	120.91	124.36	127.56	127.00	127.99
EOM	126.54	124.12	122.78	121.83	120.41	119.69	119.83	121.41	125.21	127.41	126.86	127.64
MEAN	128.09	125.26	123.20	122.54	120.90	119.96	119.63	120.51	123.13	126.65	127.05	127.61
WTR YR 1994	MEAN 123.73	HIGH 119.37	APR 13	LOW 129.54	OCT 1							

NJ-WRD WELL NO.25-0639



MONMOUTH COUNTY

401542074053001. Local I.D., Fort Monmouth 1-NCO Obs. NJ-WRD Well Number, 25-0353.

LOCATION.--Lat 40°15'42", long 74°05'30", Hydrologic Unit 02030104, at Training Center, Wyckoff Rd. and Wayside Rd., Tinton Falls Borough.

Owner: U.S. Army.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 3.5 in., depth 327 ft, screened 321 to 327 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 140 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 1.50 ft above land surface.

PERIOD OF RECORD.--Feb. 1985 to current year. Records for 1985 are unpublished and are available in files of the New Jersey District Office.

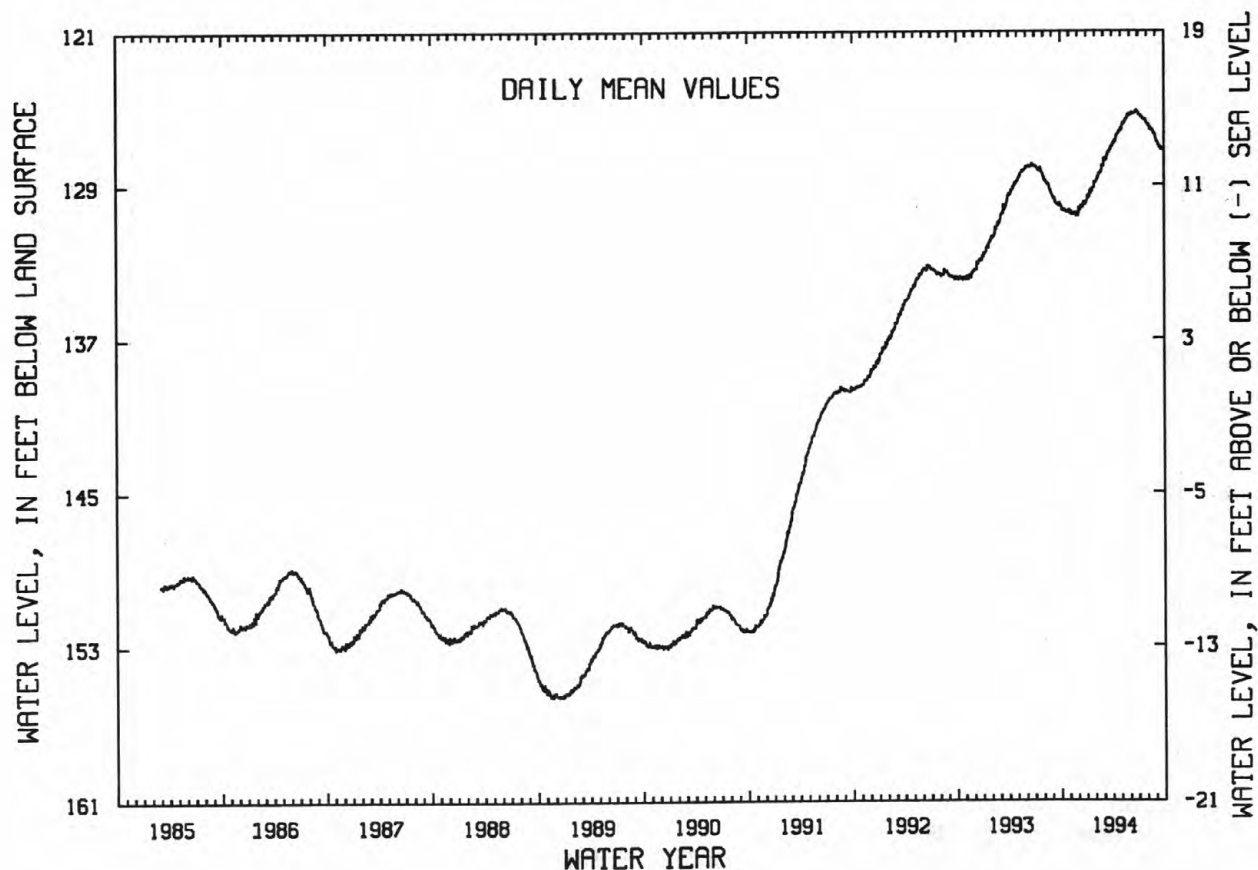
EXTREMES FOR PERIOD OF RECORD.--Highest water level 125.09 ft below land surface datum, June 25, 1994; lowest, 155.63 ft below land surface datum Dec. 22-23, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	130.21	130.38	130.16	129.64	128.76	127.67	126.86	125.96	125.39	125.38	125.83	126.72
10	130.29	130.53	130.23	129.70	128.68	127.58	126.70	125.82	125.31	125.40	125.99	126.87
15	130.36	130.46	130.07	129.35	128.41	127.42	126.49	125.71	125.30	125.47	126.01	127.03
20	130.43	130.40	130.10	129.38	128.33	127.35	126.34	125.59	125.27	125.61	126.21	127.17
25	130.41	130.60	129.90	129.18	128.01	127.16	126.20	125.41	125.09	125.60	126.30	127.17
EOM	130.28	130.56	129.92	128.92	128.07	127.02	126.16	125.42	125.19	125.79	126.50	127.27
MEAN	130.31	130.50	130.14	129.39	128.45	127.43	126.52	125.68	125.26	125.51	126.10	126.97

WTR YR 1994 MEAN 127.69 HIGH 125.09 JUN 25 LOW 130.64 NOV 25-26,30-DEC 1

NJ-WRD WELL NO.25-0353



MONMOUTH COUNTY

401906074151401. Local I.D., Village 215 Obs. NJ-WRD Well Number, 25-0250.

LOCATION.--Lat 40°19'18", long 74°15'29", Hydrologic Unit 02030104, near the intersection of River Dr. and Newport Rd., Marlboro Township.

Owner: Gordons Corner Water Company

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 215 ft, screened 185 to 215 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 138.60 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 2.26 ft above land surface.

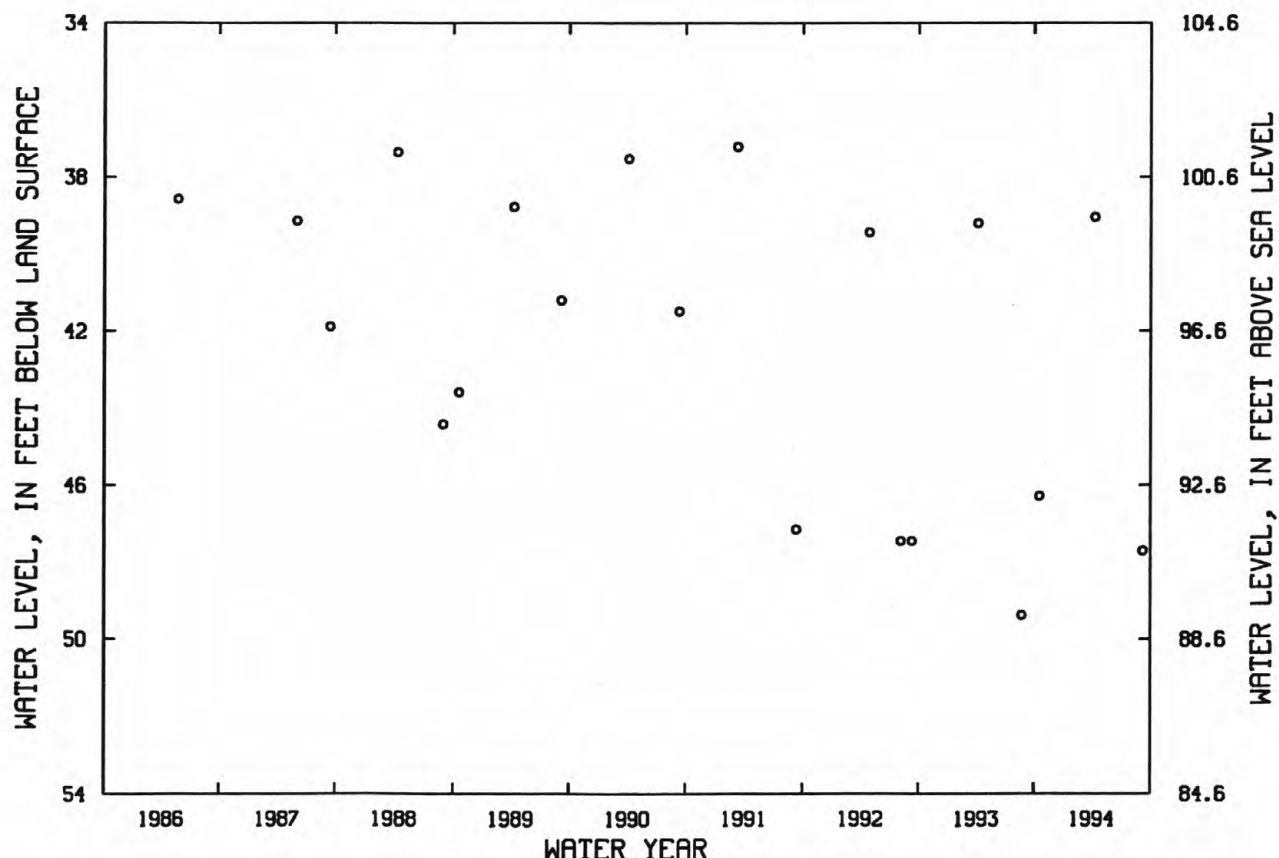
PERIOD OF RECORD.--Apr. 1971 to Sept. 1984, May 1986 to current year. Records for 1971 to 1976 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 33.92 ft below land surface, between Mar 27 and July 12, 1984, lowest, 49.38 ft below land surface, Aug. 24, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	46.28	APR 11	39.04	SEP 7	47.71

NJ-WRD WELL NO. 25-0250



MONMOUTH COUNTY

402208074145201. Local I.D., Marlboro 1 Obs. NJ-WRD Well Number, 25-0272.

LOCATION.--Lat 40°22'08", long 74°14'52", Hydrologic Unit 02030105, on the west side of NJ Rt. 79, 0.9 mi south of Morganville, Marlboro Township.

Owner: Marlboro Township Municipal Utilities Authority.

AQUIFER.--Farrington aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 680 ft, screened 670 to 680 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 116.93 ft above sea level.

Measuring point: Top of recorder shelf, 2.50 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

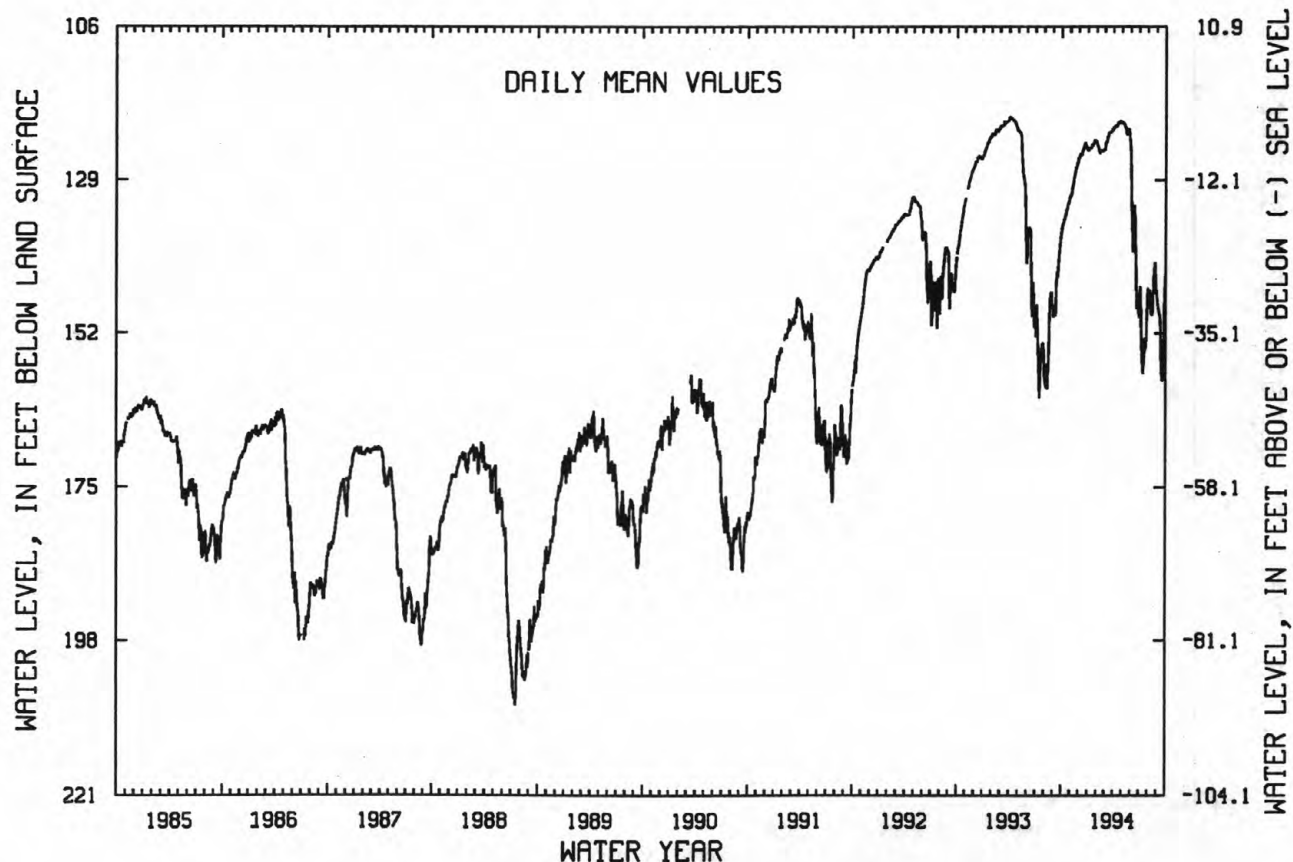
PERIOD OF RECORD.--Jan. 1973 to current year. Records for 1973 to 1977 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 119.51 ft below land surface, Apr. 3, 1993; lowest, 207.78 ft below land surface, July 16, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.56	130.47	124.94	124.27	124.12	123.30	121.03	120.43	134.29	145.01	148.36	148.34
10	134.77	129.25	124.94	124.29	125.06	122.48	120.86	120.89	135.46	154.55	148.25	149.39
15	133.98	128.03	124.07	123.74	124.51	121.90	120.63	121.62	134.73	158.02	149.31	156.97
20	133.10	126.96	123.62	123.53	124.63	121.85	120.44	121.75	145.67	154.27	144.20	159.01
25	132.36	126.44	123.90	123.03	124.41	121.71	120.11	121.55	146.73	152.90	141.34	148.11
EOM	131.28	125.73	124.61	123.63	124.49	121.31	120.44	124.42	149.61	145.26	146.62	143.36
MEAN	133.76	128.22	124.47	123.74	124.48	122.32	120.63	121.51	139.65	151.66	146.06	151.09
WTR YR 1994	MEAN 132.34	HIGH 120.02	APR 24	LOW 159.27	SEP 19							

NJ-WRD WELL NO.25-0272



MONMOUTH COUNTY

402426074001901. Local I.D., AHWB B Obs. NJ-WRD Well Number, 25-0715.

LOCATION.--Lat 40°24'26", long 74°00'19", Hydrologic Unit 02030104, near the intersection of Highland Ave. and Beverot Pl., Atlantic Highlands Borough.

Owner: Atlantic Highlands Water Department.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 360 ft, screened 350 to 360 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 220 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 2.90 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

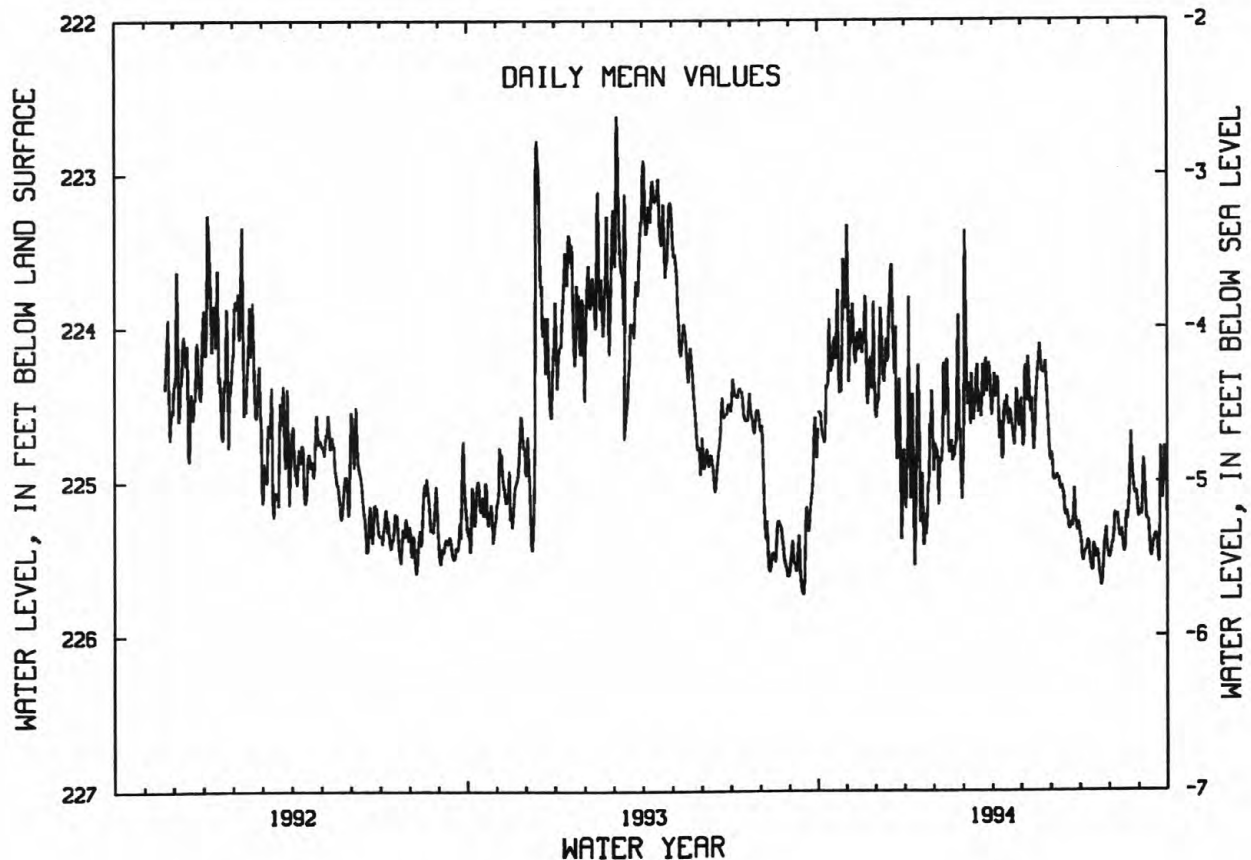
PERIOD OF RECORD.--Aug. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 221.79 ft below land surface, Mar. 14, 1993; lowest, 226.20 ft below land surface, Sept. 16, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	224.69	223.92	223.87	224.66	224.91	224.33	224.44	224.25	224.98	225.48	225.33	224.85
10	224.38	224.14	224.21	225.54	224.57	224.30	224.61	224.47	225.02	225.40	225.30	225.25
15	224.25	224.06	223.83	224.57	224.81	224.30	224.57	224.71	225.19	225.40	225.43	225.40
20	224.00	223.86	224.30	225.40	224.83	224.58	224.54	224.11	225.31	225.52	225.18	225.45
25	224.41	224.19	224.33	225.00	224.68	224.20	224.64	224.25	225.04	225.53	224.98	225.11
EOM	223.33	224.55	225.10	224.75	225.11	224.57	224.57	224.86	225.29	225.50	225.23	225.22
MEAN	224.22	224.13	224.36	224.88	224.69	224.38	224.56	224.44	225.12	225.48	225.22	225.19
WTR YR 1994	MEAN 224.72 HIGH 222.95 MAR 3 LOW 226.08 JUL 24											

NJ-WRD WELL NO.25-0715



MONMOUTH COUNTY

402536073590501. Local I.D., Sandy Hook SP 1 Obs. NJ-WRD Well Number, 25-0316.

LOCATION.--Lat 40°25'36", long 73°59'05", Hydrologic Unit 02030104, about 1.9 mi north of the main entrance of Sandy Hook National Park, Middletown Township.

Owner: State of New Jersey.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 397 ft, screened 371 to 397 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 10.91 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 1.76 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

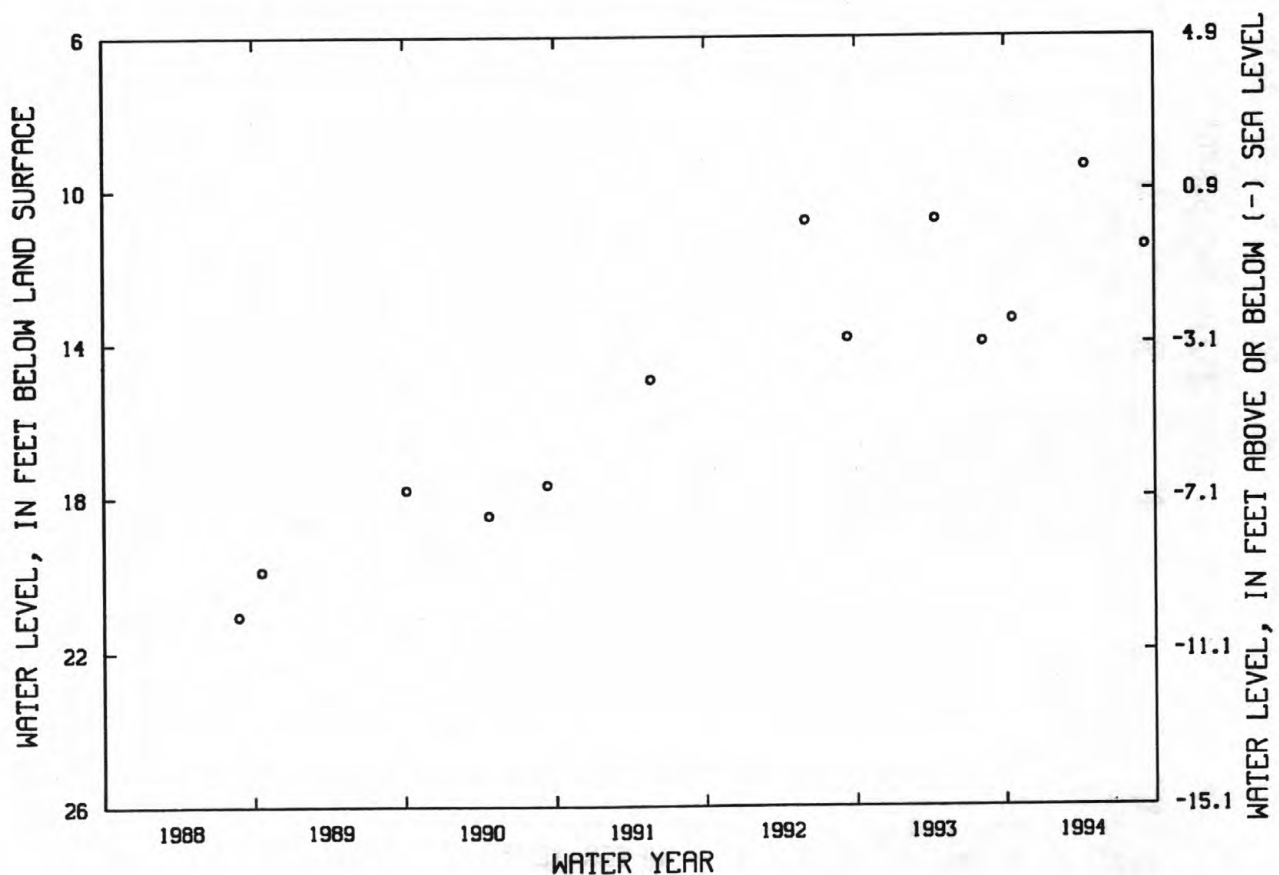
PERIOD OF RECORD.--May 1965 to Dec. 1984, Aug. 1988 to current year. Records for 1965 to 1976 and 1988 to 1992 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.99 ft below land surface, Jan. 23, 1966; lowest, 20.12 ft below land surface, between Sept. 7 and Nov. 2, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	13.37	APR 13	9.38	SEP 7	11.47

NJ-WRD WELL NO. 25-0316



MONMOUTH COUNTY

402626074114204. Local I.D., Keyport 4 Obs. NJ-WRD Well Number, 25-0206.

LOCATION.--Lat 40°26'25", long 74°11'45", Hydrologic Unit 02030104, at the Benjamin C. Terry Park, Myrtle Ave., Keyport Borough.

Owner: Keyport Borough Water Department.

AQUIFER.--Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 249 ft, screened 225 to 249 ft.

INSTRUMENTATION.--Water-level extremes recorder, Nov. 1987 to current year. Water-level recorder, June 1978 to Nov. 1987.

DATUM.--Land surface is 14.47 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.47 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.20 ft below land surface, between Mar. 8 and June 14, 1993; lowest, 35.22 ft below land surface, between June 20 and Sept. 28, 1988.

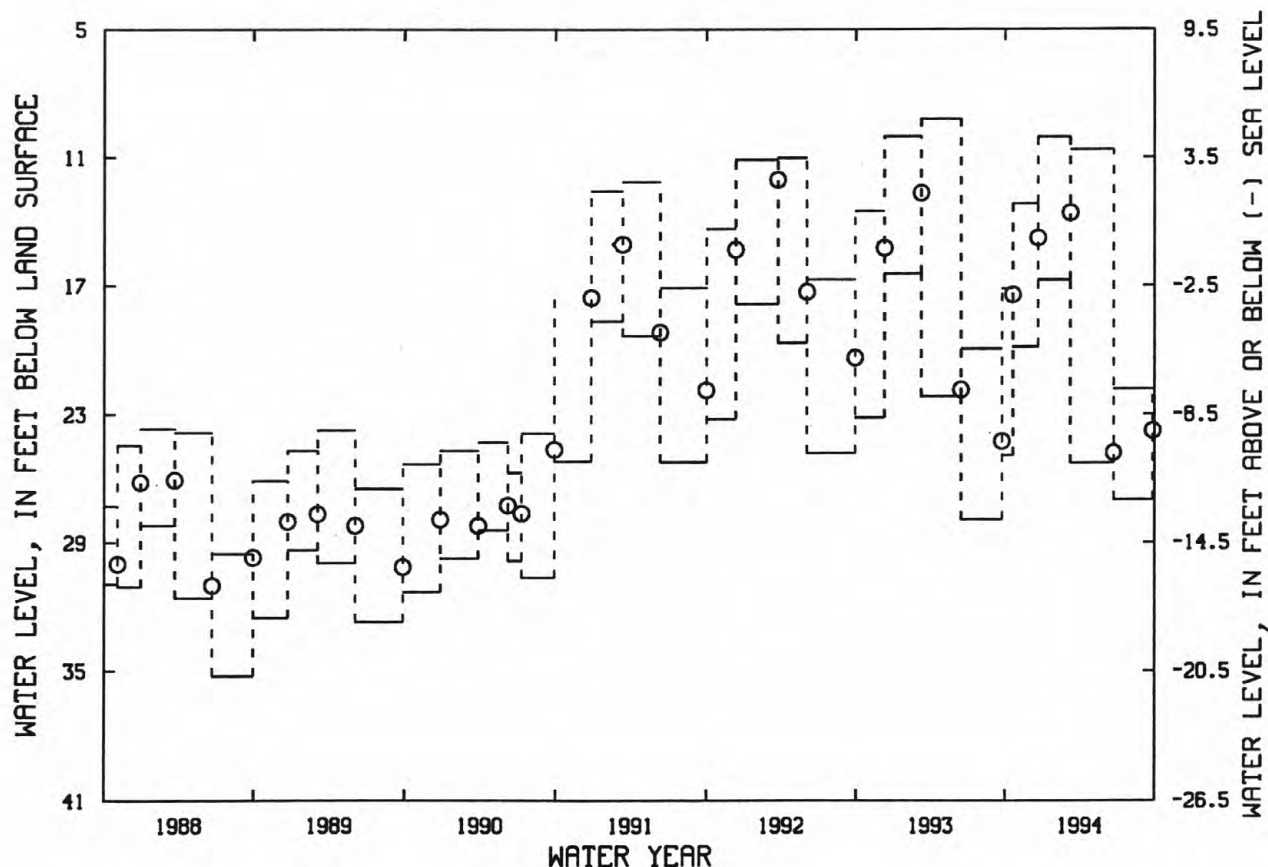
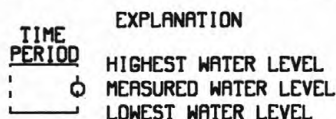
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1993 TO DEC. 20, 1993	13.16	19.86	DEC. 20, 1993	14.77
DEC. 20, 1993 TO MAR. 7, 1994	10.05	16.74	MAR. 7, 1994	13.59
MAR. 7, 1994 TO JUNE 21, 1994	10.63	25.28	JUNE 21, 1994	24.80
JUNE 21, 1994 TO SEPT. 26, 1994	21.83	26.98	SEPT. 26, 1994	23.77

NJ-WRD WELL NO. 25-0206



MORRIS COUNTY

404432074225301. Local I.D., Recreation Fld Obs. NJ-WRD Well Number, 27-0001.

LOCATION.--Lat 40°44'32", long 74°22'52", Hydrologic Unit 02030103, at Chatham Recreation Field, about 35 ft east of the intersection of Center Place and North Passaic St., Chatham Borough.

Owner: U.S. Geological Survey

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 150 ft, screened 140 to 150 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 218.8 ft above sea level, by altimeter.

Measuring point: Top of well shelter shelf, 3.20 ft above land surface.

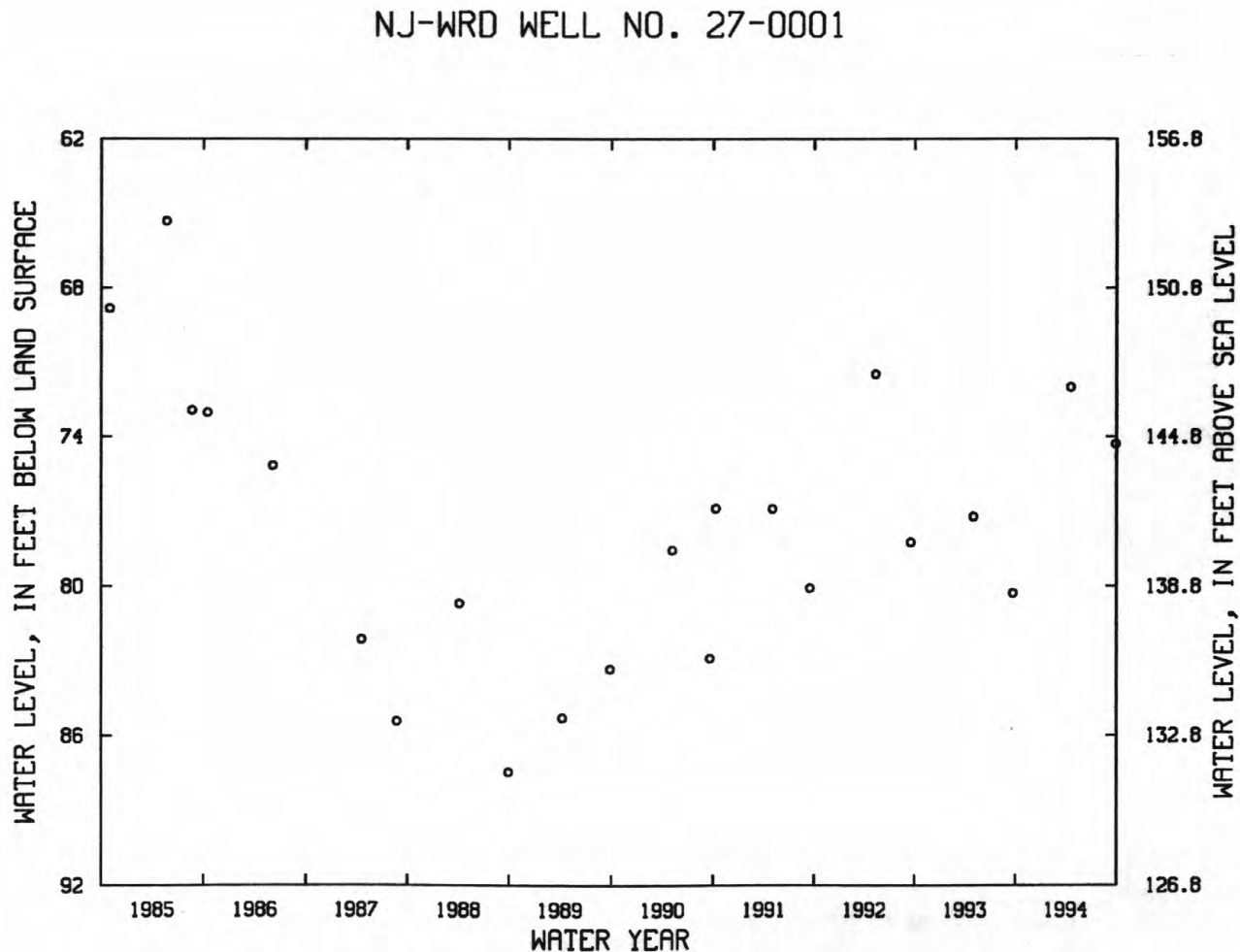
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Mar. 1967 to current year. Records for 1967 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.30 ft below land surface, May 23, 1985; lowest, 94.55 ft below land surface, Aug. 16, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	72.01	SEP 28	74.30



MORRIS COUNTY

404510074240201. Local I.D., MBWD 4 Obs. NJ-WRD Well Number, 27-0017.

LOCATION.--Lat 40°45'08", long 74°24'02", Hydrologic Unit 02030103, at the Madison Borough Public Works facility, John Ave. and Dean St, Madison Borough.

Owner: Madison Borough Water Department.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 100 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 194.90 ft above sea level.

Measuring point: Top of well shelter shelf, 1.97 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

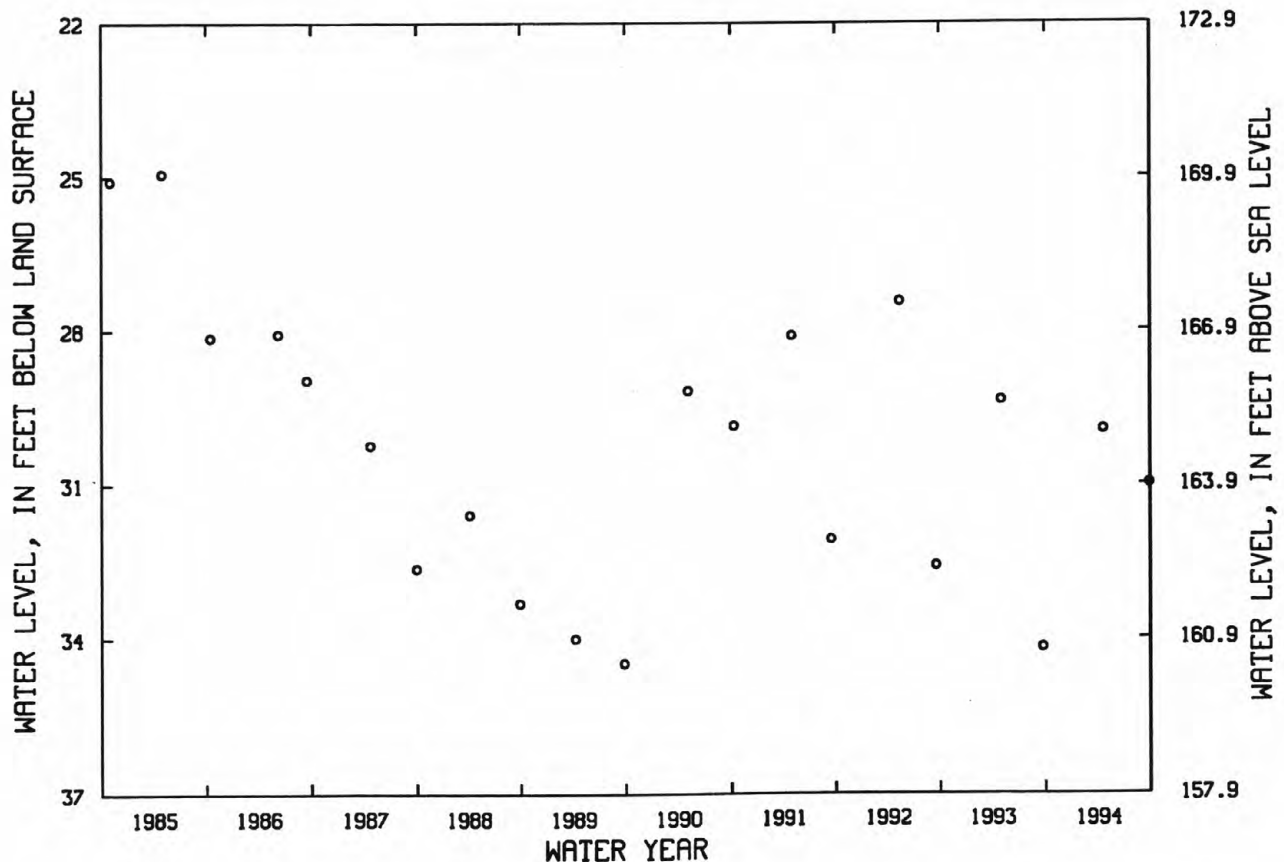
PERIOD OF RECORD.--Apr. 1955 to current year. Records for 1955 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.50 ft below land surface, Apr. 30, 1955; lowest, 37.26 ft below land surface, July 14, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	29.93	SEP 28	30.99

NJ-WRD WELL NO. 27-0017



MORRIS COUNTY

404513074245401. Local I.D., Madison 8 Obs. NJ-WRD Well Number, 27-1197.

LOCATION.--Lat 40°45'13", long 74°24'54", Hydrologic Unit 02030103, in the median of the Municipal parking lot, Prospect St. and Kings Rd, Madison Borough.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 161 ft, screened 142 to 161 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 246.6 ft above sea level.

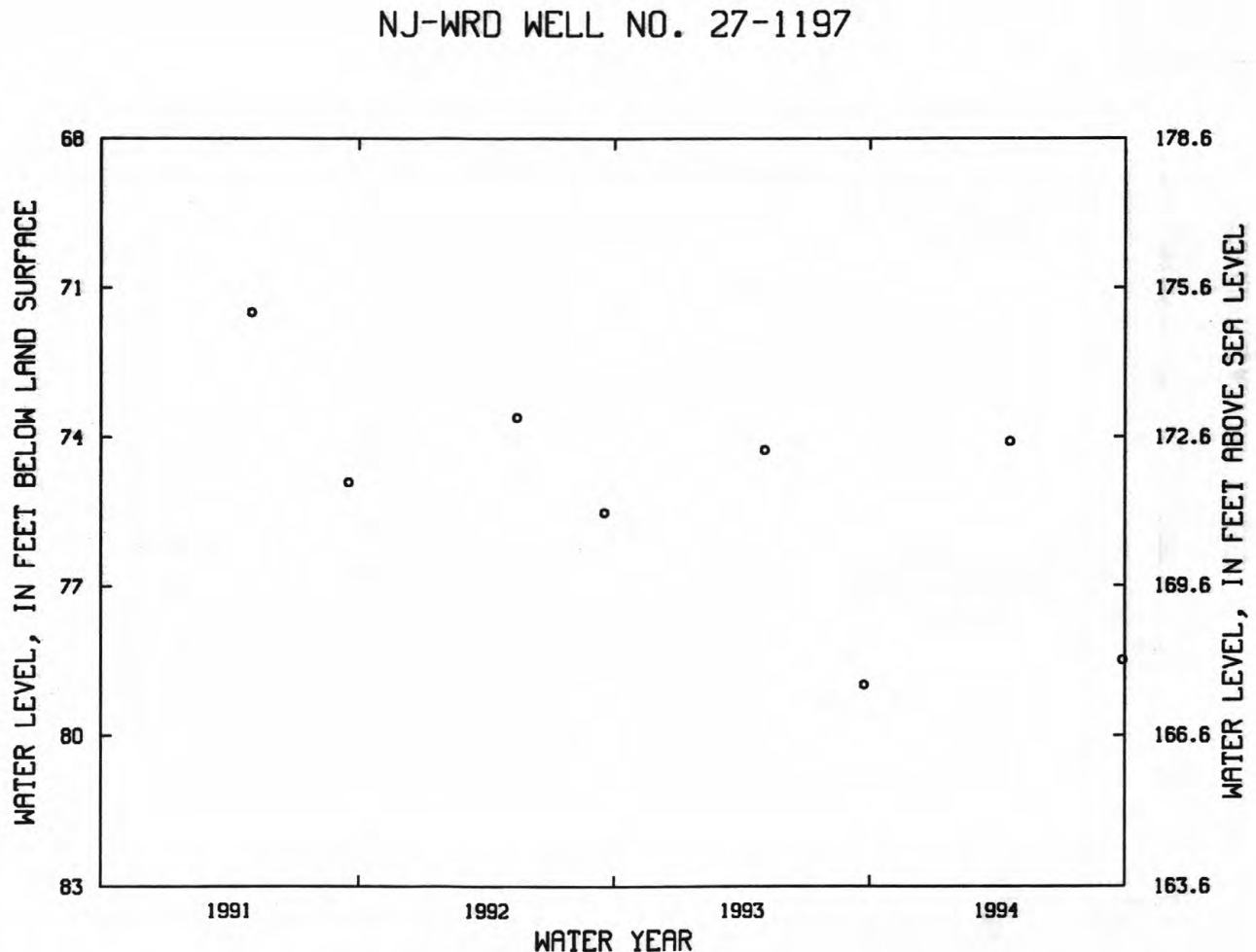
Measuring point: Top of casing, 0.60 ft below land surface.

PERIOD OF RECORD.--May 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 71.49 ft below land surface, May 2, 1991; lowest, 78.97 ft below land surface, Sept. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	74.09	SEP 28	78.50



MORRIS COUNTY

404639074230001. Local I.D., Briarwood School Obs. NJ-WRD Well Number, 27-0012.

LOCATION.--Lat 40°46'39", long 74°23'00", Hydrologic Unit 02030103, at Briarwood School, Florham Park Borough.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 110 ft, screened 100 to 110 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 198 ft above sea level, by altimeter.

Measuring point: Top of recorder shelf, 3.00 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Mar. 1967 to current year. Records for 1967 to 1976 are unpublished and are available in files of the New Jersey District Office.

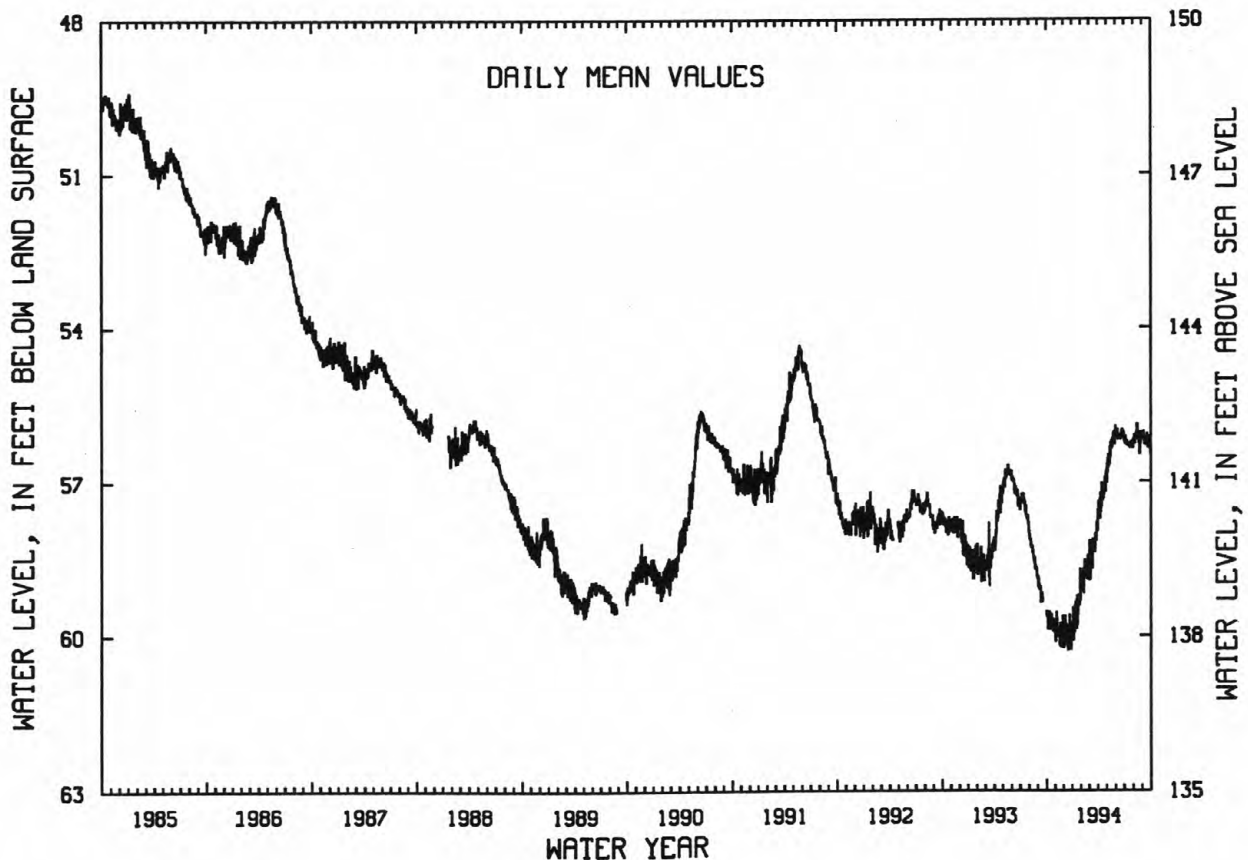
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.17 ft below land surface, June 3, 1968; lowest, 60.43 ft below land surface, Dec. 16-17, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.87	59.54	59.61	60.10	58.77	58.86	57.48	56.55	56.14	56.18	56.09	56.02
10	59.89	59.86	59.78	59.86	59.18	58.21	57.22	56.70	56.18	56.23	56.10	56.29
15	59.76	59.99	59.91	59.75	58.71	58.12	57.37	56.28	56.19	56.25	56.11	56.28
20	59.78	59.93	60.10	59.54	58.70	58.39	57.28	56.28	56.17	56.35	56.24	56.34
25	59.85	60.17	59.75	59.39	58.89	58.00	57.09	56.06	56.02	56.23	56.18	56.25
EOM	59.80	60.23	60.05	59.11	58.86	57.72	56.81	56.02	56.12	56.26	56.04	56.51
MEAN	59.75	59.93	59.99	59.51	58.84	58.29	57.29	56.41	56.09	56.25	56.14	56.22

WTR YR 1994 MEAN 57.89 HIGH 55.83 AUG 14 LOW 60.43 DEC 16-17

NJ-WRD WELL NO.27-0012



MORRIS COUNTY

404703074245201. Local I.D., Esso Six Inch Obs. NJ-WRD Well Number, 27-0014.

LOCATION.--Lat 40°47'05", long 74°24'52", Hydrologic Unit 02030103, at the Exxon facility, Park Ave, Florham Park Borough.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 120 ft, screened 110 to 120 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 176 ft above sea level, by altimeter.

Measuring point: Top of well shelter shelf, 3.90 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

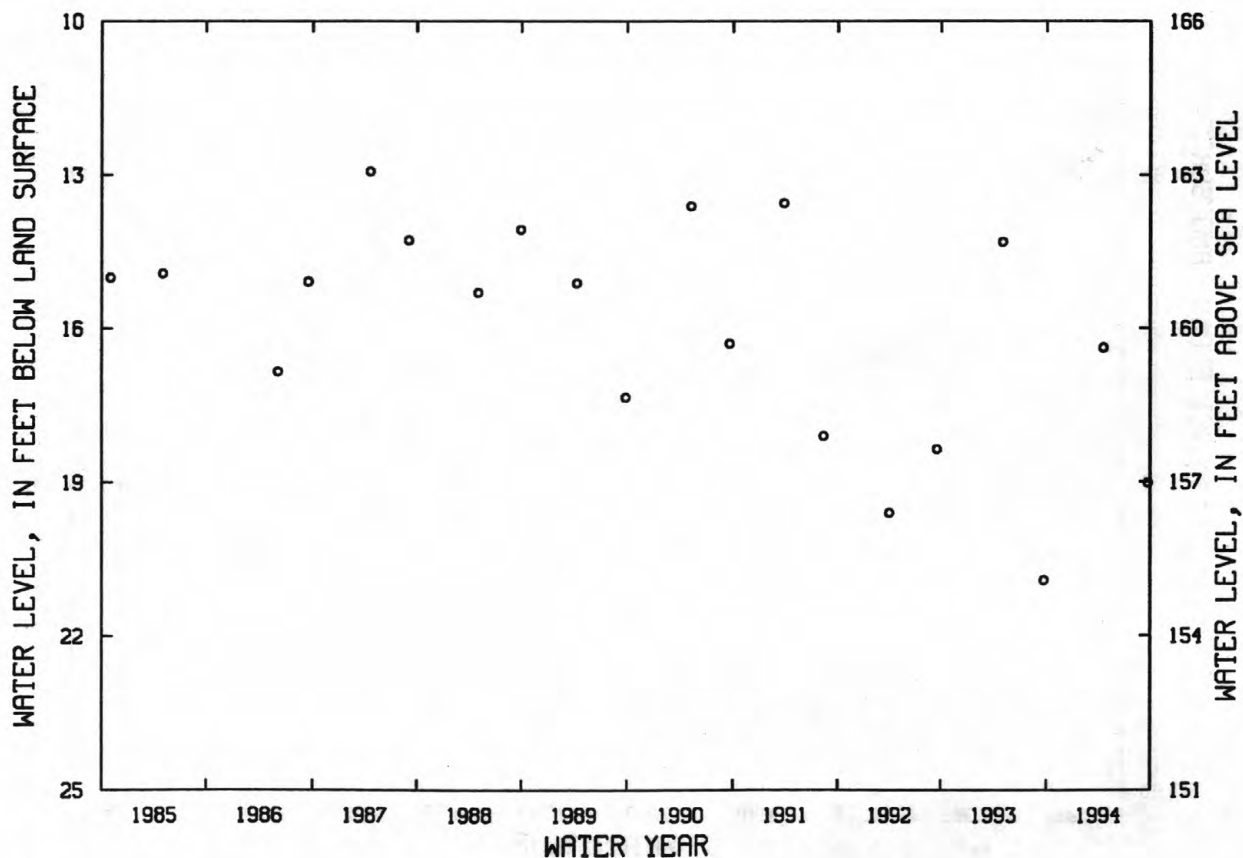
PERIOD OF RECORD.--May 1967 to current year. Records for 1967 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.15 ft above land surface, May 8, 1967; lowest, 20.92 ft below land surface, Sept. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	16.38	SEP 23	19.02

NJ-WRD WELL NO. 27-0014



MORRIS COUNTY

404712074454701. Local I.D., Drew University Farm Obs. NJ-WRD Well Number, 27-1303.

LOCATION.--Lat 40°47'12", long 74°45'47", Hydrologic Unit 02030105, near the intersection of Bartley Rd. and Rt. 24, Long Valley, Washington Township.

Owner: State of New Jersey - New Jersey Geological Survey.

AQUIFER.--Leithsville Formation of Cambrian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 118 ft, open hole 97.6 to 118 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 600.8 ft above sea level.

Measuring point: Top of recorder shelf, 1.50 ft above land surface.

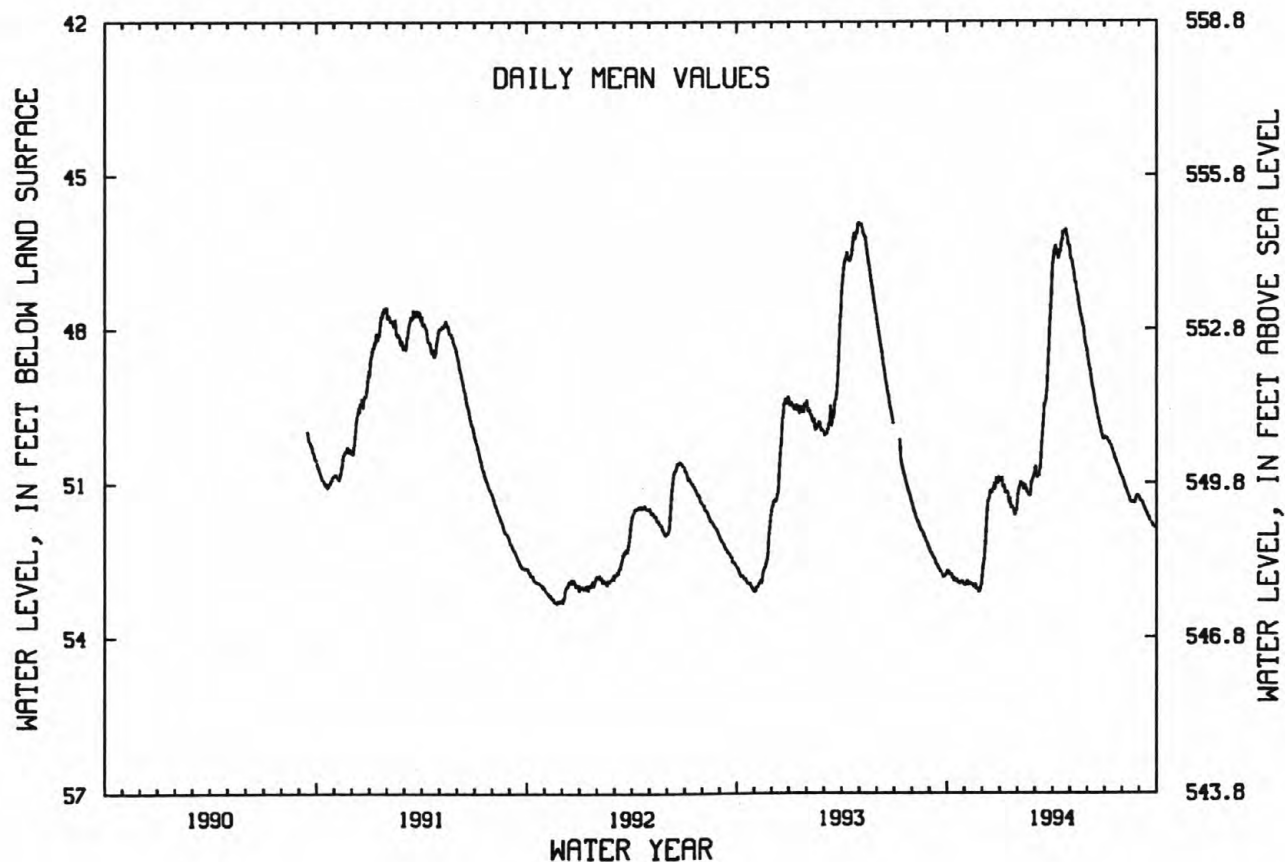
PERIOD OF RECORD.--Sept. 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.88 ft below land surface, Apr. 30-May 1, 1993; lowest, 53.37 ft below land surface, Nov. 22-23, Dec. 2, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.78	52.89	52.32	51.07	50.97	50.86	46.43	46.65	48.74	50.11	51.01	51.36
10	52.85	52.93	51.39	51.19	51.12	50.72	46.46	47.05	49.08	50.20	51.18	51.51
15	52.88	52.99	51.13	51.33	51.11	49.96	46.47	47.31	49.41	50.33	51.34	51.64
20	52.93	53.03	51.13	51.47	51.23	49.42	46.13	47.67	49.72	50.52	51.38	---
25	52.93	53.12	50.89	51.57	50.99	48.51	46.14	47.93	49.96	50.67	51.29	51.84
EOM	52.95	52.90	50.97	51.26	50.85	46.96	46.37	48.36	50.14	50.87	51.27	51.88
MEAN	52.86	52.99	51.43	51.28	51.07	49.62	46.37	47.40	49.38	50.41	51.22	51.62
WTR YR 1994	MEAN 50.47	HIGH 46.01	APR 24	LOW 53.15	NOV 25							

NJ-WRD WELL NO.27-1303



MORRIS COUNTY

404748074241901. Local I.D., W B Driver 2 Obs. NJ-WRD Well Number, 27-0003.

LOCATION.--Lat 40°47'48", long 74°24'19", Hydrologic Unit 02030103, near the Amax Specialty Metals Plant, about 2,500 ft north of Columbia Rd., East Hanover Township.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 108 ft, screened 99 to 108 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 178.26 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 4.21 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

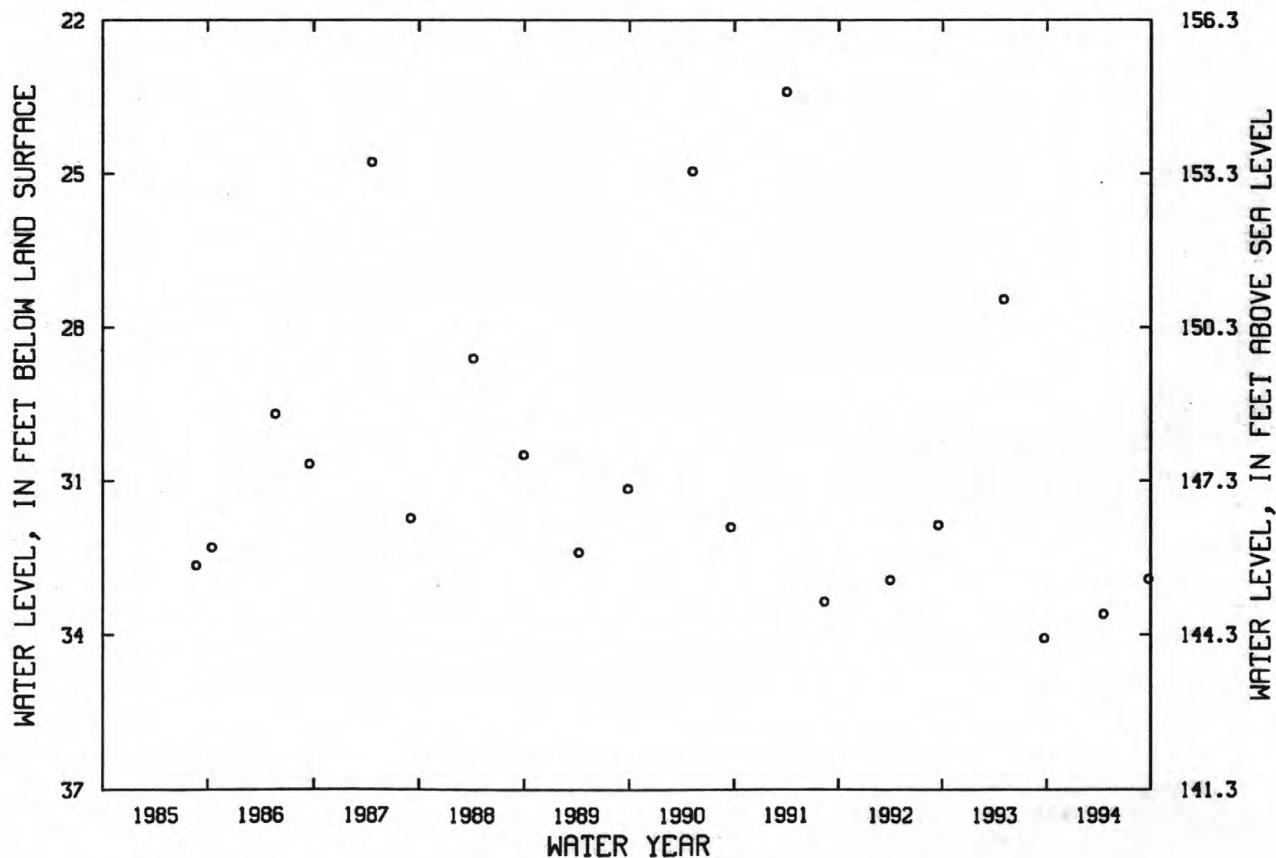
PERIOD OF RECORD.--Mar. 1966 to current year. Records for 1966 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.56 ft below land surface, Apr. 10, 1967; lowest, 34.06 ft below land surface, Sept 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	33.60	SEP 23	32.92

NJ-WRD WELL NO. 27-0003



MORRIS COUNTY

404749074252401. Local I.D., Test 2 Obs. NJ-WRD Well Number, 27-0015.

LOCATION.--Lat 40°47'43", Long 74°25'22", Hydrologic Unit 02030103, at the Morristown Airport, Columbia Rd. Hanover Township.

Owner: Morristown Airport.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 62 ft, screened 51 to 62 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 180.60 ft above sea level.

Measuring point: Top of well shelter shelf, 3.40 ft above land surface.

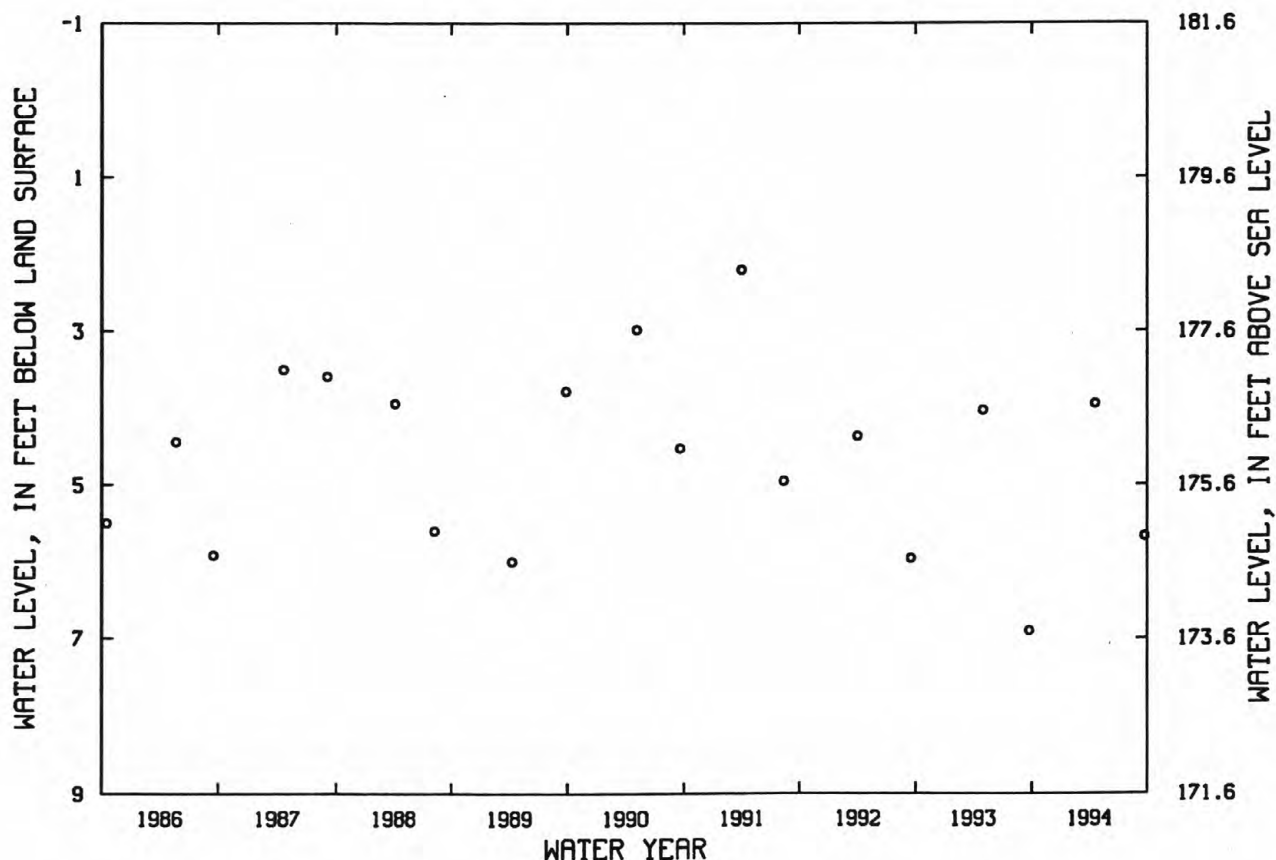
PERIOD OF RECORD.--Apr. 1960 to Feb. 1975, Mar. 1977 to Sept. 1984, Oct. 1985 to current year. Records for 1960 to 1975 and 1977 to 1984 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.39 ft above land surface, Feb. 26, 1961; lowest, 6.90 ft below land surface, Sept. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	3.95	SEP 23	5.67

NJ-WRD WELL NO. 27-0015



MORRIS COUNTY

404816074235901. Local I.D., Clemens Obs. NJ-WRD Well Number, 27-0004.

LOCATION.--Lat 40°48'16", long 74°23'59", Hydrologic Unit 02030103, about 3,200 ft southwest of the intersection of Rt. 10 and Ridgedale Ave., East Hanover Township.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 110 ft, screened 100 to 110 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 174.91 ft above sea level.

Measuring point: Top of bushing, 4.60 ft above land surface.

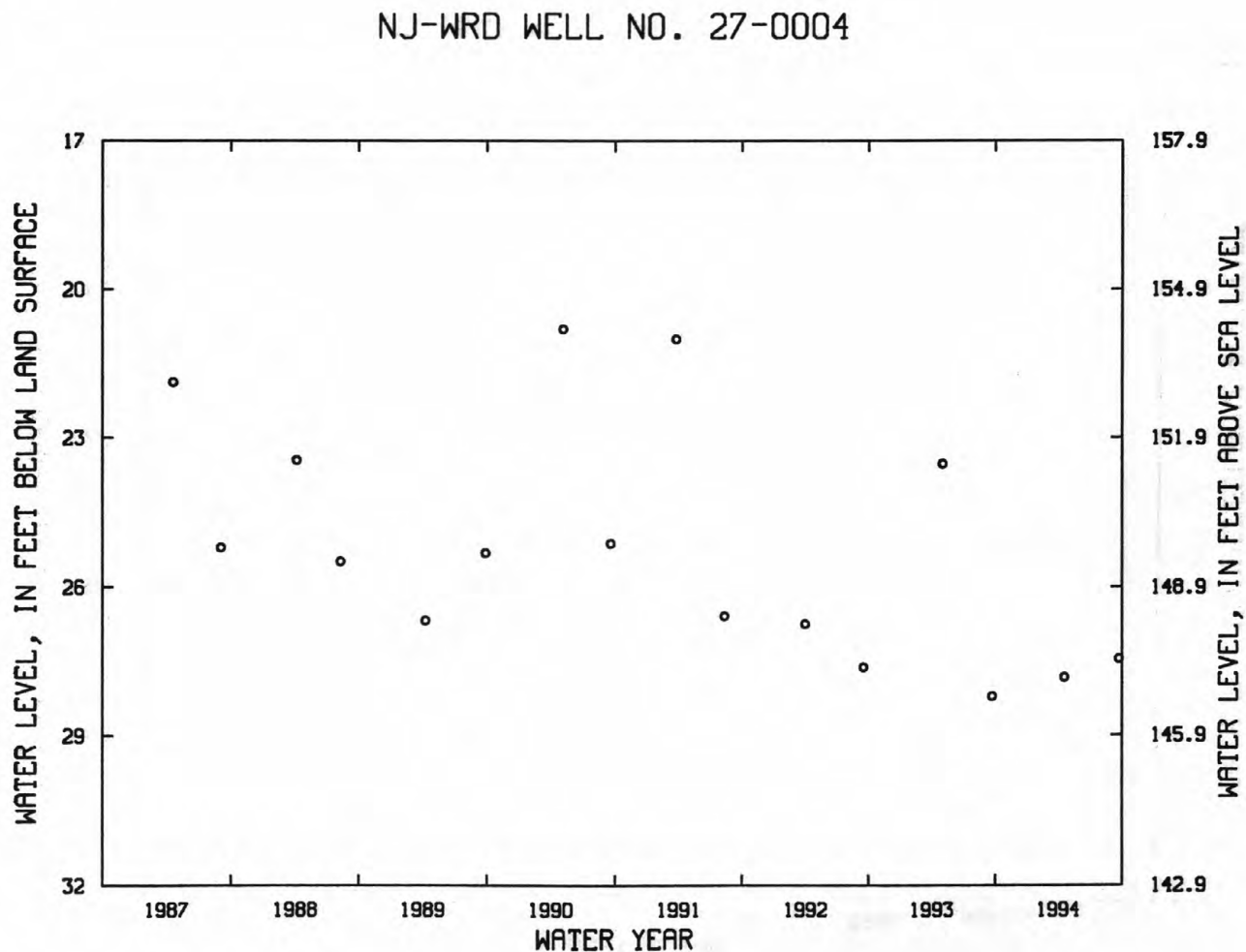
REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--May 1966 to Sept. 1984, Apr. 1987 to current year. Records for 1966 to 1984 and 1987 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.33 ft below land surface, May 7, 1967; lowest, 28.21 ft below land surface, Sept. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	27.83	SEP 23	27.46



MORRIS COUNTY

404826074234701. Local I.D., Sandoz Obs. NJ-WRD Well Number, 27-0005.

LOCATION.--Lat 40°48'26", long 74°23'47", Hydrologic Unit 02030103, about 600 ft west of Ridgedale Ave., and about 2,000 ft south of Rt. 10,, East Hanover Township.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 123 ft, screened 113 to 123 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 188.25 ft above sea level.

Measuring point: Top of bushing, 3.94 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

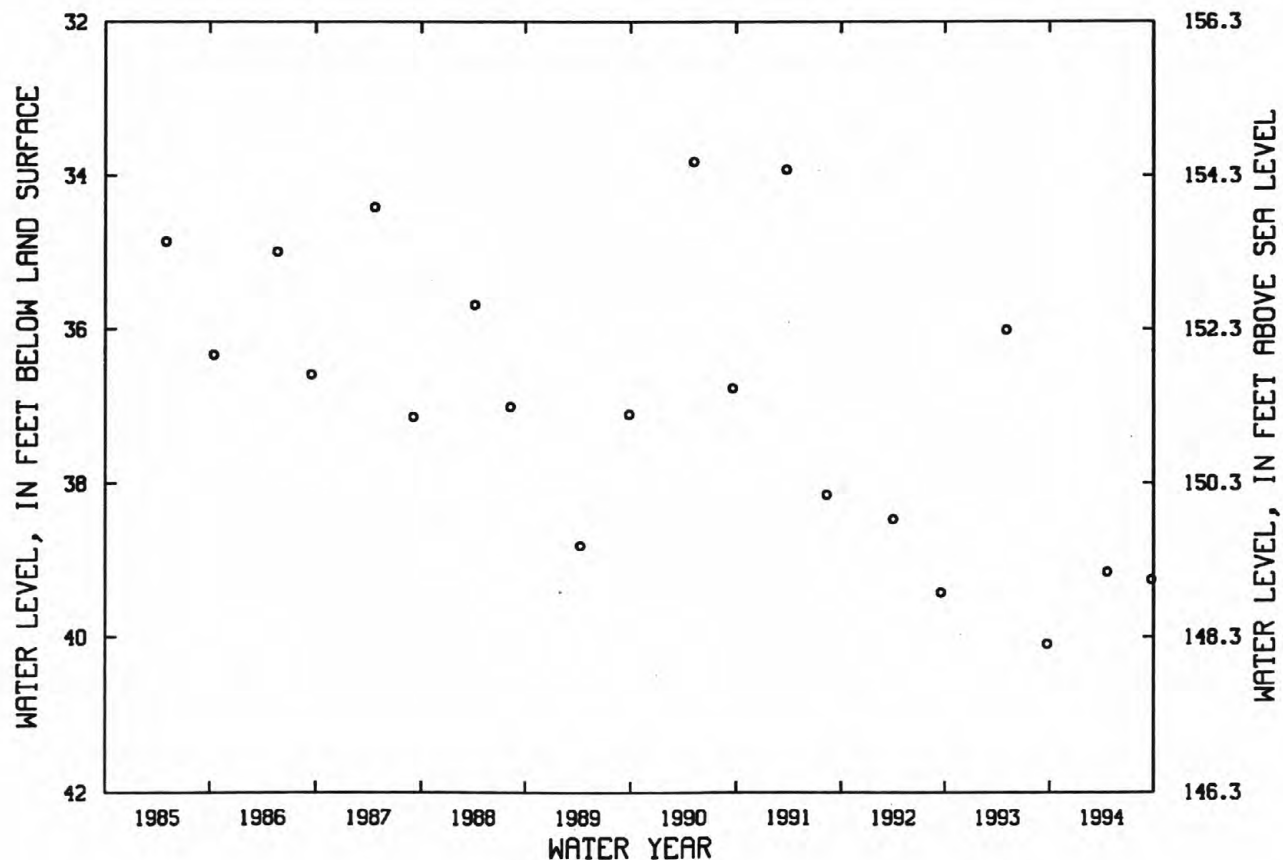
PERIOD OF RECORD.--Feb. 1966 to current year. Records for 1966 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.17 ft below land surface, Jan. 15, 1968; lowest, 40.09 ft below land surface, Sept. 23, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20	39.16	SEP 23	39.26

NJ-WRD WELL NO. 27-0005



MORRIS COUNTY

404921074335601. Local I.D., Mt Freedom 2 Obs. NJ-WRD Well Number, 27-0023.

LOCATION.--Lat 40°49'21", long 74°33'56", Hydrologic Unit 02030103, 440 ft north of the intersection of Phyllis Place and Leonard Lane, Randolph Township.

Owner: Randolph Township Water Department.

AQUIFER.--Precambrian Erathem.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 218 ft, open hole 11 to 218 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 800 ft above sea level, by altimeter.

Measuring point: Top of base of aluminum locking cap, 4.61 ft above land surface.

REMARKS.--Water level is occasionally affected by nearby pumping.

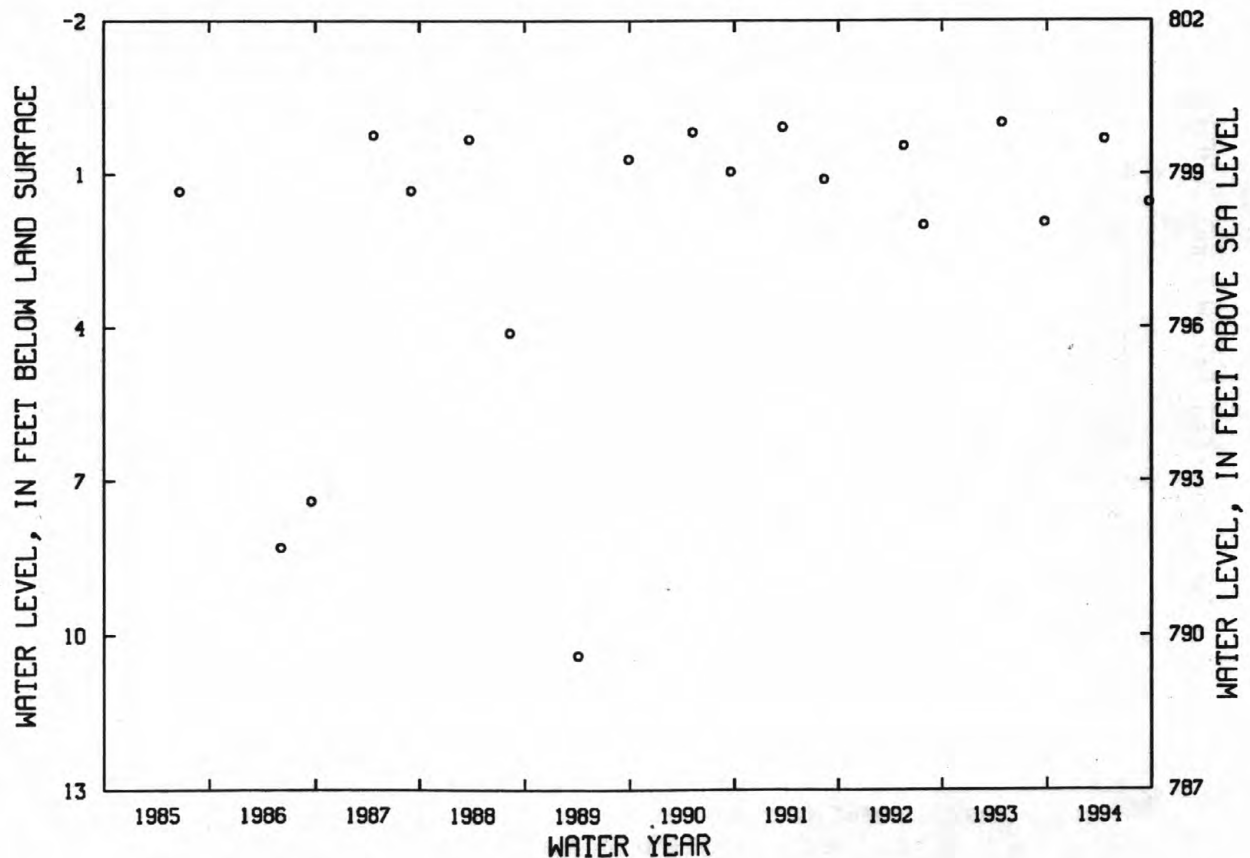
PERIOD OF RECORD.--Jan. 1964 to Nov. 1974, Aug. 1976 to current year. Records for 1964 to 1974 and 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.02 ft above land surface, between Apr. 3 and July 9, 1984; lowest, 15.29 ft below land surface, between Aug. 26 and Oct. 8, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 21	0.32	SEP 23	1.56

NJ-WRD WELL NO. 27-0023



MORRIS COUNTY

404934074400501. Local I.D., Black River 10 Obs. NJ-WRD Well Number, 27-1190.

LOCATION.--Lat 40°49'04", long 74°40'53", Hydrologic Unit 02030105, at the Black River Wildlife Management Area, Pleasant Hill Rd., Chester Township.

Owner: State of New Jersey.

AQUIFER.--Precambrian Erathem.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 200 ft, open hole 87 to 200 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Apr. 1991 to May 1992.

DATUM.--Land surface is 890 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 1.90 ft above land surface.

PERIOD OF RECORD.--Apr. 1991 to current year.

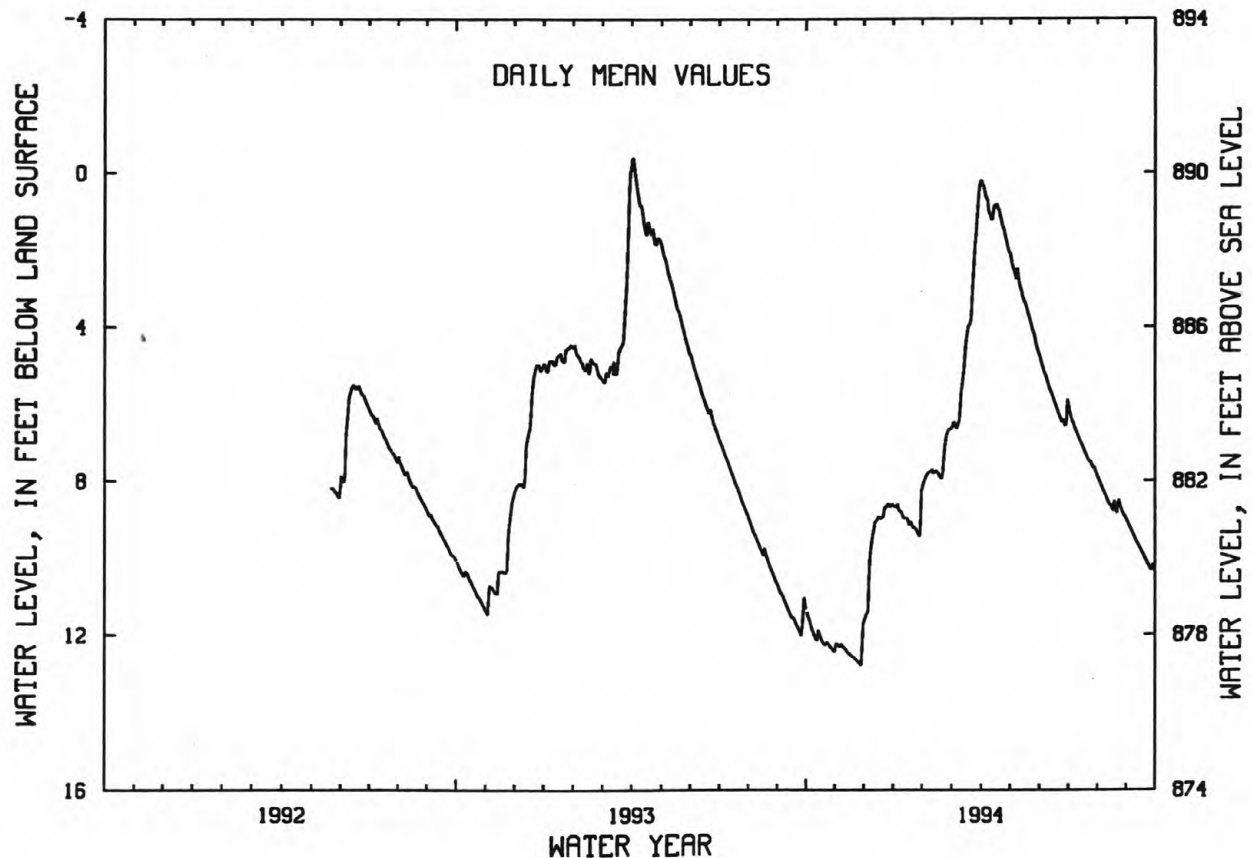
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.46 ft above land surface, Apr. 2, 1993; lowest, 12.79 ft below land surface, Nov. 27-28, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.74	12.29	10.57	8.73	7.77	6.56	.62	2.54	5.15	6.44	8.16	9.29
10	12.08	12.35	9.26	8.96	7.81	6.05	1.10	2.86	5.52	6.75	8.46	9.56
15	12.02	12.49	8.93	9.04	7.80	4.67	.92	3.34	5.87	7.05	8.67	9.81
20	12.25	12.59	8.95	9.19	7.75	3.91	1.11	3.69	6.23	7.36	8.79	10.06
25	12.28	12.72	8.59	9.35	6.72	1.89	1.61	4.14	6.41	7.56	8.70	10.29
EOM	12.27	11.63	8.66	8.06	6.65	.22	2.09	4.71	5.89	7.87	9.02	10.37
MEAN	12.06	12.41	9.33	8.93	7.54	4.20	1.11	3.40	5.81	7.06	8.56	9.80

WTR YR 1994 MEAN 7.52 HIGH .16 MAR 31-APR 1 LOW 12.79 NOV 27-28

NJ-WRD WELL NO.27-1190



MORRIS COUNTY

404937074220001. Local I.D., Green Acres Obs. NJ-WRD Well Number, 27-0006.

LOCATION.--Lat 40°49'37", long 74°22'00", Hydrologic Unit 02030103, about 65 ft northwest of the end of the paved portion of Weaver Place, East Hanover Township.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 104 ft, screened 94 to 104 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 181 ft above sea level, by altimeter.

Measuring point: Top of base of aluminum locking cap, 3.86 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

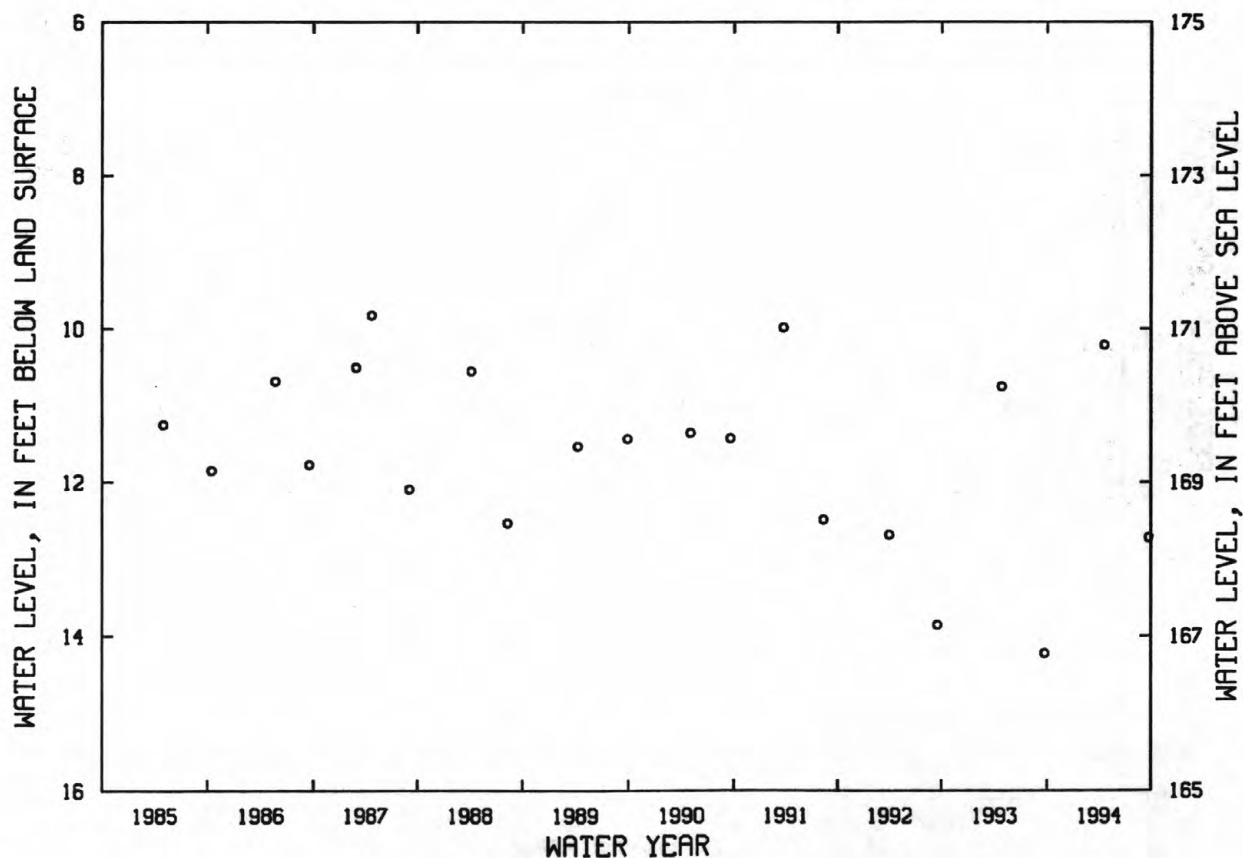
PERIOD OF RECORD.--Mar. 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.15 ft below land surface, Apr. 10, 1973; lowest, 15.21 ft below land surface, between Apr. 3 and July 9, 1984.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 21	10.21	SEP 23	12.72

NJ-WRD WELL NO. 27-0006



MORRIS COUNTY

405027074232301. Local I.D., Troy Meadows 1 Obs. NJ-WRD Well Number, 27-0020.

LOCATION.--Lat 40°50'27", long 74°23'23", Hydrologic Unit 02030103, on the east side of Beverwyck Rd., 0.8 mi north of intersection with Troy Rd., Parsippany-Troy Hills Township.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 89 ft, screened 79 to 89 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 192.07 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 3.32 ft above land surface.

PERIOD OF RECORD.--Dec. 1965 to current year. Records for 1965 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.00 ft below land surface, Mar. 15-16, 1967, June 15, 1968; lowest, 15.77 ft below land surface, between Feb. 10 and May 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

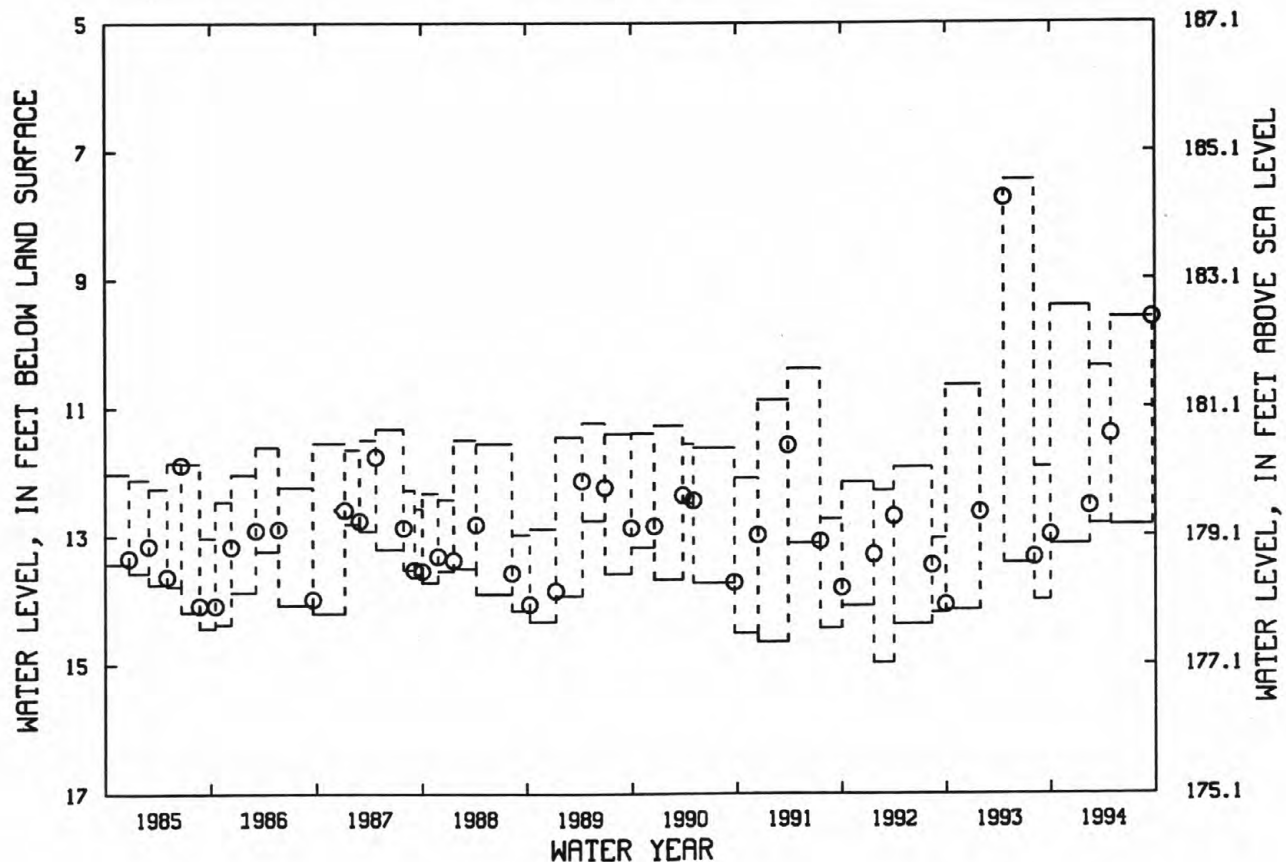
WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 30, 1993 TO FEB. 15, 1994	9.42	13.13	FEB. 15, 1994	12.53
FEB. 15, 1994 TO APR. 28, 1994	10.36	12.81	APR. 28, 1994	11.41
APR. 28, 1994 TO SEPT. 19, 1994	9.60	12.83	SEPT. 19, 1994	9.60

NJ-WRD WELL NO. 27-0020

TIME
PERIOD
EXPLANATION
○ HIGHEST WATER LEVEL
○ MEASURED WATER LEVEL
[] LOWEST WATER LEVEL



MORRIS COUNTY

405123074375701. Local I.D., Roxbury 1 Obs. NJ-WRD Well Number, 27-1191.

LOCATION.--Lat 40°51'23", long 74°37'57", Hydrologic Unit 02030105, 600 ft south of Horseshoe Lake, between the Roxbury Municipal Building and the Lamington River, Roxbury Township.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 154 ft, screened 134 to 154 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 704.2 ft above sea level.

REMARKS.--Water level is affected by nearby pumping.

Measuring point: Top of recorder shelf, 2.20 ft above land surface.

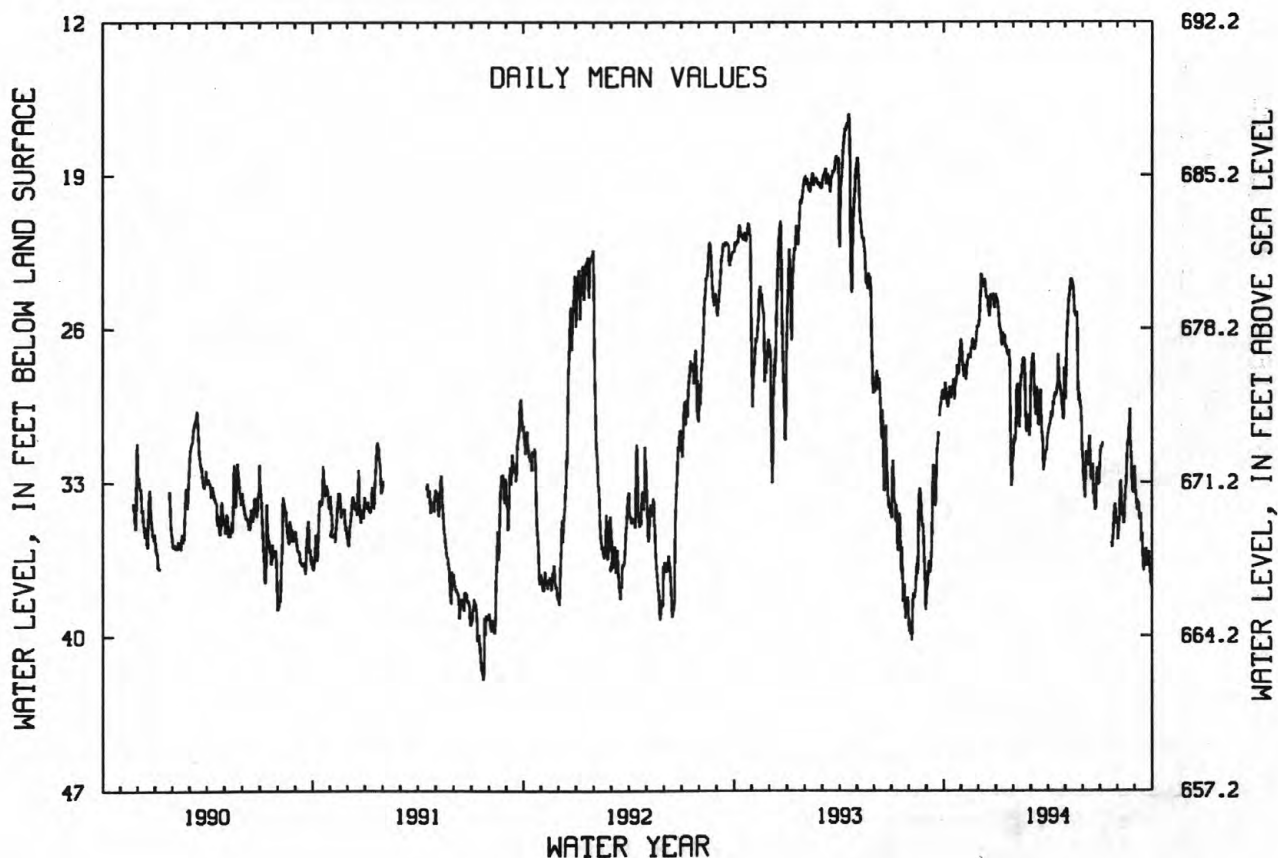
PERIOD OF RECORD.--Nov. 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.14 ft below land surface, Apr. 17, 1993; lowest, 42.08 ft below land surface, July 23, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.18	28.19	23.49	25.36	28.81	27.26	30.28	26.06	33.71	31.35	34.62	33.79
10	28.82	27.87	23.90	26.76	30.49	29.91	29.29	24.20	31.87	---	34.55	34.54
15	29.01	27.20	24.60	26.31	27.67	30.20	29.04	23.99	32.61	---	33.17	36.79
20	28.86	26.43	25.29	27.02	29.64	30.17	27.90	25.44	33.55	---	31.05	36.03
25	27.76	26.78	24.42	30.56	30.16	32.11	29.19	29.25	33.01	35.20	31.56	36.15
EOM	26.46	25.93	24.47	31.41	30.48	30.96	27.79	31.50	33.05	34.91	32.26	37.31
MEAN	28.49	27.10	24.55	27.57	29.40	29.87	29.30	26.42	32.64	33.67	33.05	35.61
WTR YR 1994	MEAN 29.63	HIGH 23.33	DEC 5	LOW 38.39	SEP 29							

NJ-WRD WELL NO.27-1191



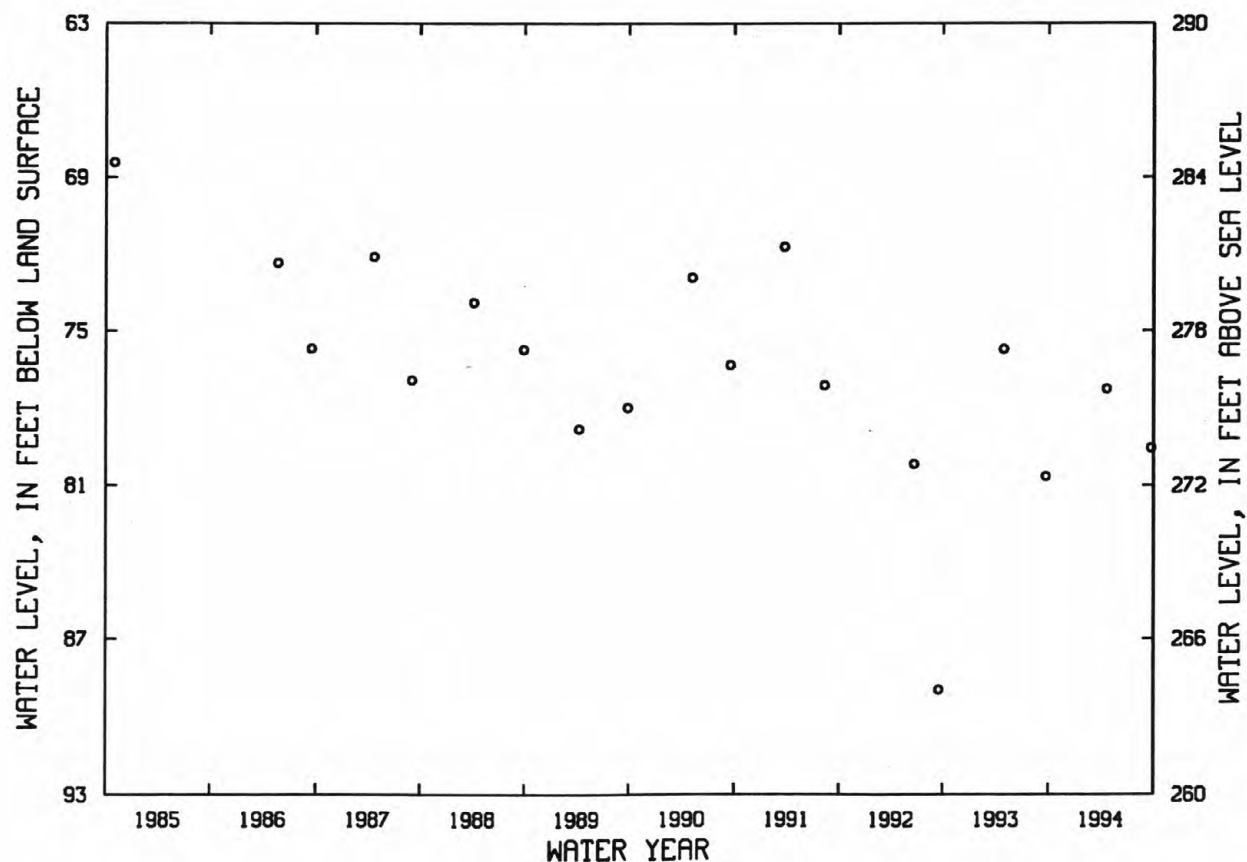
MORRIS COUNTY

405211074263901. Local I.D., Int Pipe Obs. NJ-WRD Well Number, 27-0022.
 LOCATION.--Lat 40°52'09", long 74°26'38", Hydrologic Unit 02030103, in the industrial park off Cherry Hill Rd, Parsippany-Troy Hills Township.
 Owner: International Pipe & Ceramic Corporation.
 AQUIFER.--Stratified drift of Pleistocene age.
 WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 155 ft, screened 146 to 155 ft.
 INSTRUMENTATION.--None: periodic measurements with chalked steel tape.
 DATUM.--Land surface is 353.05 ft above sea level.
 Measuring point: Top of casing, 0.50 ft below land surface.
 REMARKS.--water level affected by nearby pumping.
 PERIOD OF RECORD.--Oct. 1963 to Feb. 1968, June 1971 to Oct. 1984, May 1986 to current year. Records for 1963 to 1968 and 1971 to 1984 and 1986 to 1989 are unpublished and are available in files of the New Jersey District Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.86 ft below land surface, May 3, 1964; lowest, 88.96 ft below land surface, Sept. 17, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 21	77.26	SEP 23	79.54

NJ-WRD WELL NO. 27-0022



MORRIS COUNTY

405414074354201. Local I.D., Morris Maint Yd 22 Obs. NJ-WRD Well Number, 27-1192.

LOCATION.--Lat 40°54'13", long 74°35'33", Hydrologic Unit 02030103, about 600 ft north of the Rockaway River, at the Morris County Maintenance Yard, Dewey Ave., Wharton Borough.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 100 ft, screened 80 to 100 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements, Apr. 1991 to May 1992.

DATUM.--Land surface is 669.1 ft above sea level.

Measuring point: Top of recorder shelf, 2.10 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

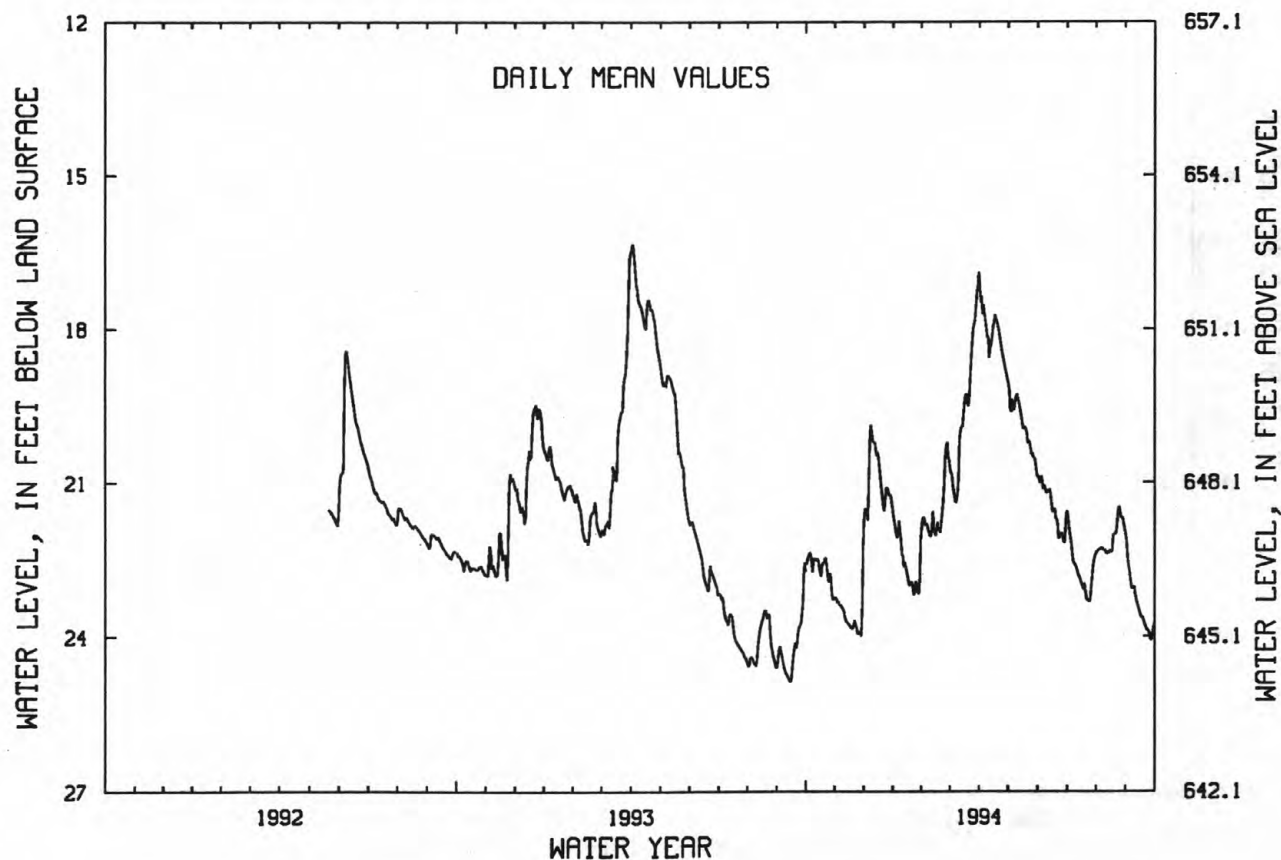
PERIOD OF RECORD.--April 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.33 ft below land surface, Apr. 2, 1993; lowest, 24.89 ft below land surface, Sept. 14-15, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.37	23.39	20.92	22.00	21.84	21.17	17.52	19.37	20.95	22.19	22.29	22.86
10	22.49	23.61	20.21	22.42	21.88	20.95	18.15	19.28	21.21	22.65	22.34	23.18
15	22.74	23.78	20.50	22.81	21.89	19.70	17.94	19.79	21.44	22.94	22.33	23.55
20	22.48	23.68	21.46	22.96	21.79	19.51	17.94	20.01	21.71	23.12	22.01	23.77
25	22.78	23.89	21.12	23.01	20.31	18.00	18.51	20.45	21.99	23.27	21.55	23.96
EOM	23.24	21.69	21.65	21.73	20.57	16.89	18.97	20.88	21.60	22.39	22.02	23.75
MEAN	22.69	23.54	20.96	22.54	21.56	19.53	18.10	19.89	21.48	22.71	22.10	23.43
WTR YR 1994 MEAN 21.54 HIGH 16.87 MAR 31 LOW 24.20 SEP 26												

NJ-WRD WELL NO.27-1192



MORRIS COUNTY

405531074361901. Local I.D., Berkshire Valley 9 Obs. NJ-WRD Well Number, 27-0027.

LOCATION.--Lat 40°55'31", long 74°36'19", Hydrologic Unit 02030103, about 1,000 ft east of the intersection of Lower Berkshire Valley Rd. and Minnisink Rd., Jefferson Township.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 98 ft, screened 78 to 98 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements Nov. 1981 to Mar. 1985.

DATUM.--Land surface is 725.64 ft above sea level (levels by Woodward-Clyde Consultants).

Measuring point: Top of casing, 2.25 ft above land surface.

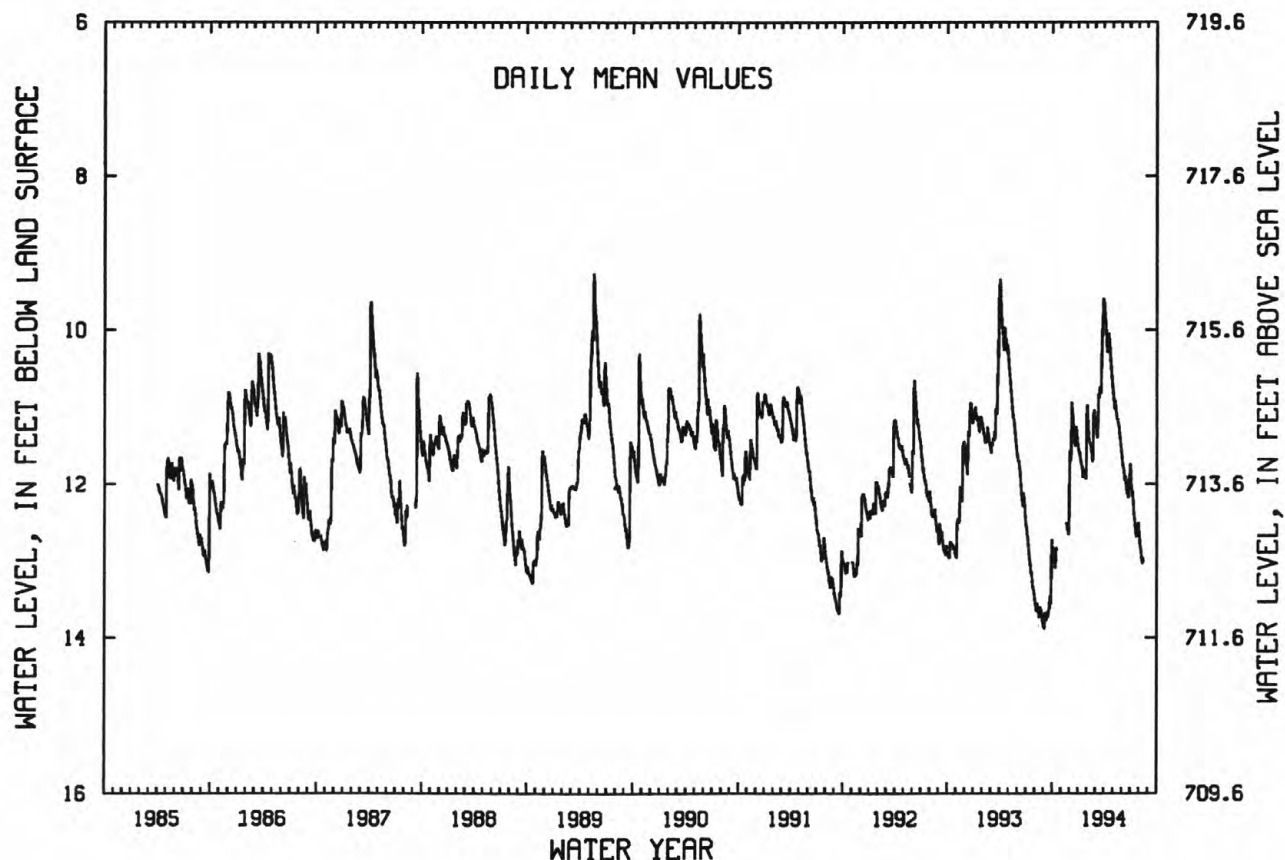
PERIOD OF RECORD.--Nov. 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.25 ft below land surface, May 18, 1989; lowest, 13.88 ft below land surface, Sept. 3-4, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.88	---	11.32	11.62	11.34	11.32	9.87	10.93	11.77	12.04	12.82	---
10	13.05	---	11.10	11.74	11.48	11.12	10.20	10.96	11.91	12.14	12.98	---
15	12.84	---	11.32	11.86	11.57	10.83	10.11	11.16	11.98	12.42	12.97	---
20	---	12.53	11.51	11.83	11.67	10.81	10.20	11.21	12.12	12.60	---	---
25	---	12.63	11.32	11.89	11.04	10.06	10.48	11.38	12.03	12.63	---	---
EOM	---	11.57	11.54	10.97	11.20	9.62	10.74	11.58	11.74	12.61	---	---
MEAN	12.91	---	11.34	11.70	11.37	10.70	10.20	11.15	11.92	12.35	12.90	---
WTR YR 1994 MEAN 11.57 HIGH 9.59 MAR 29-30 LOW 13.10 OCT 11-12												

NJ-WRD WELL NO.27-0027



MORRIS COUNTY

410207074270001. Local I.D., Green Pond 5 Obs. NJ-WRD Well Number, 27-0028.

LOCATION.--Lat 41°02'07", long 74°27'00", Hydrologic Unit 02030103, about 500 ft east of County Rt. 513 and 1.1 mi south of the intersection with Rt. 23, Rockaway Township.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 120 ft, screened 80 to 120 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 758.56 ft above sea level (levels by Woodward-Clyde Consultants).

Measuring point: Top of recorder shelf, 1.20 ft above land surface.

PERIOD OF RECORD.--Nov. 1981 to current year.

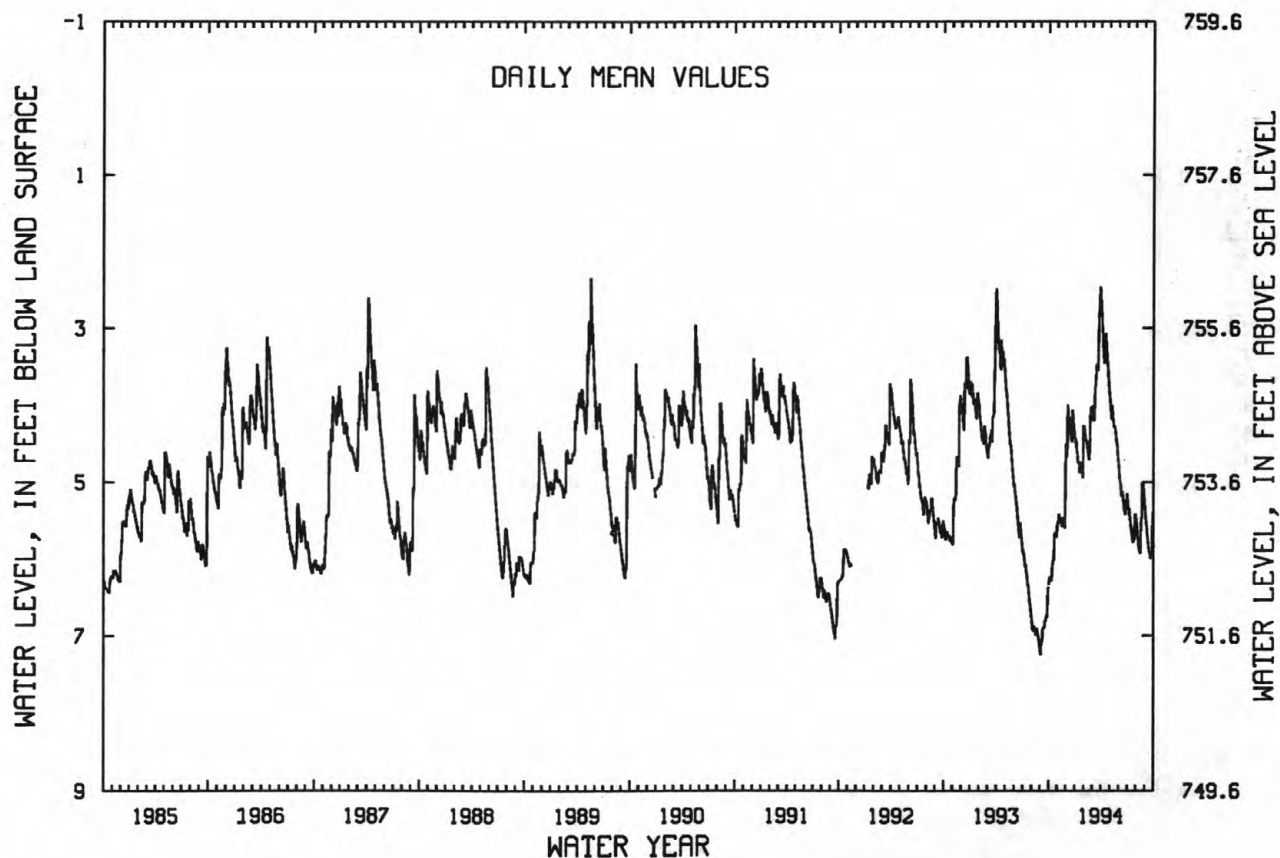
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.35 ft below land surface, Apr. 5, 1984; lowest, 7.24 ft below land surface, Sept. 2-4, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.24	5.43	4.14	4.55	4.38	4.14	2.99	4.07	4.97	5.35	5.63	5.54
10	6.27	5.46	4.19	4.74	4.56	3.89	3.37	4.07	5.14	5.39	5.84	5.73
15	6.06	5.54	4.31	4.81	4.63	3.58	3.21	4.28	5.17	5.59	5.89	5.90
20	5.82	5.47	4.47	4.78	4.58	3.54	3.28	4.30	5.36	5.73	5.48	5.96
25	5.68	5.59	4.12	4.89	4.03	2.79	3.57	4.49	5.33	5.76	5.03	5.92
EOM	5.55	4.54	4.42	4.27	4.07	2.63	3.85	4.73	5.15	5.46	5.31	5.40
MEAN	5.99	5.43	4.29	4.67	4.40	3.49	3.29	4.27	5.16	5.53	5.53	5.73

WTR YR 1994 MEAN 4.82 HIGH 2.43 MAR 29 LOW 6.35 OCT 1

NJ-WRD WELL NO.27-0028



OCEAN COUNTY

394742074142001. Local I.D., Garden St Pky 1 Obs. NJ-WRD Well Number, 29-0513.

LOCATION.--Lat 39°47'44", long 74°14'18", Hydrologic Unit 02040301, near the intersection of the Garden State Parkway and Rt. 532 (Waretown-Brookville Rd), Ocean Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, depth 21 ft, screened 18 to 21 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 44.25 ft above sea level.

Measuring point: Top of coupling, 1.00 ft above land surface.

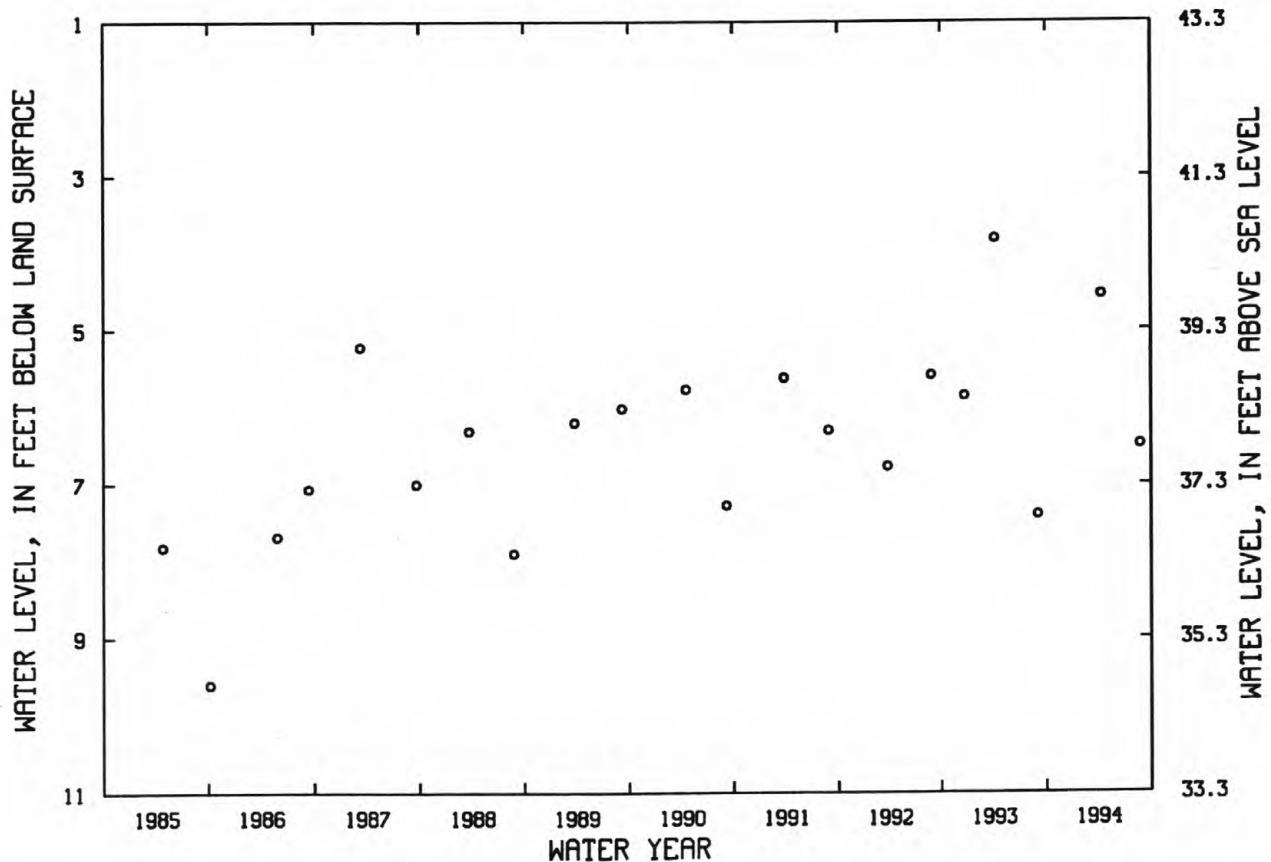
PERIOD OF RECORD.--May 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.99 ft below land surface, Apr. 3, 1984; lowest, 9.60 ft below land surface, Oct. 8, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 13	4.55	AUG 24	6.49

NJ-WRD WELL NO. 29-0513



OCEAN COUNTY

394742074142002. Local I.D., Garden St Pky 2 Obs. NJ-WRD Well Number, 29-0514.

LOCATION.--Lat 39°47'44", long 74°14'18", Hydrologic Unit 02040301, near the intersection of the Garden State Parkway and Rt. 532 (Waretown-Brookville Rd), Ocean Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, depth 316 ft, screened 306 to 316 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 43.82 ft above sea level.

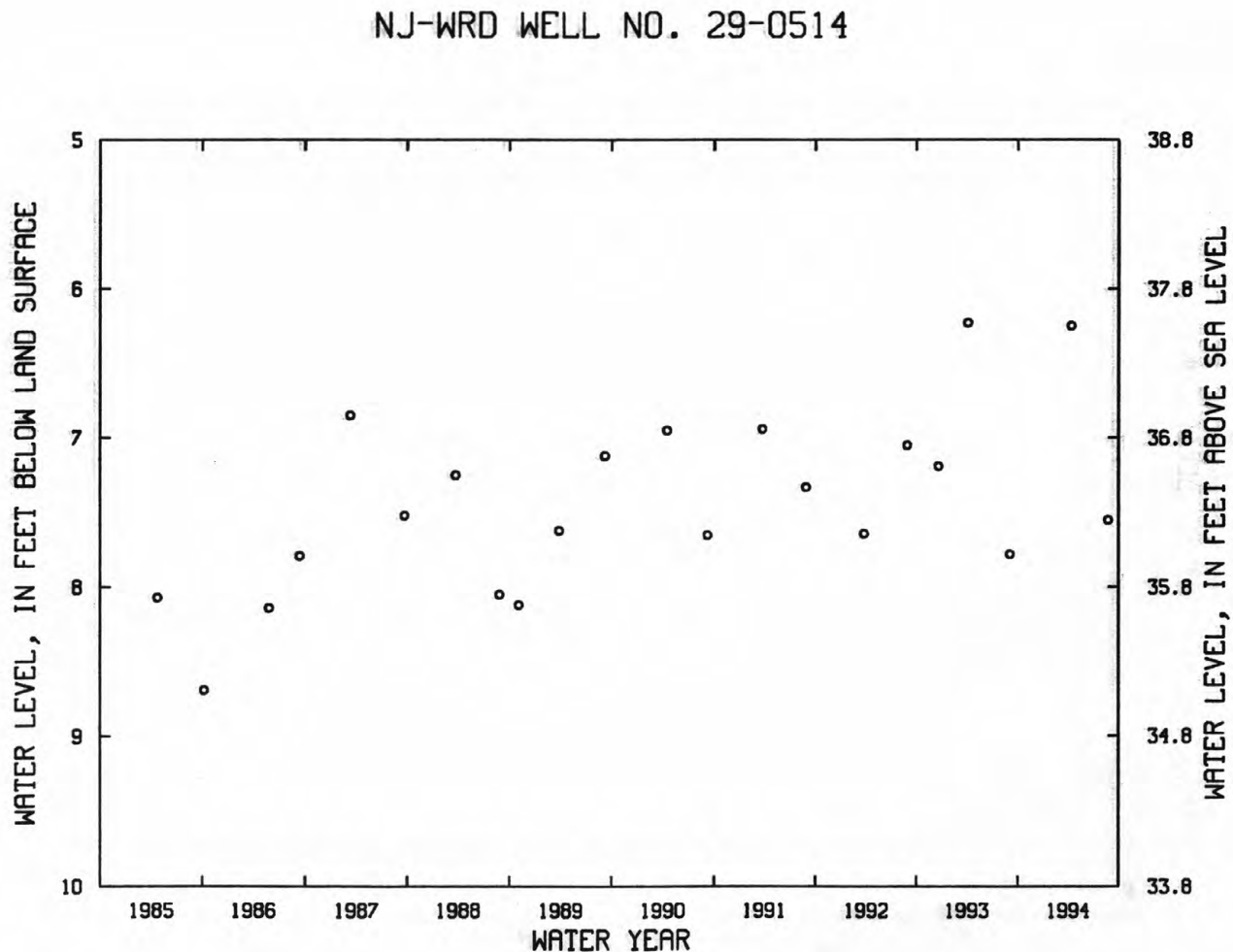
Measuring point: Top of coupling, 1.78 ft above land surface.

PERIOD OF RECORD.--Feb. 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.23 ft below land surface, Apr. 10-11, 1973; lowest, 10.50 ft below land surface, Sept. 20, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 13	6.25	AUG 24	7.55



OCEAN COUNTY

394829074053501. Local I.D., Island Beach 1 Obs. NJ-WRD Well Number, 29-0017.

LOCATION.--Lat 39°48'29", long 74°05'35", Hydrologic Unit 02040301, in Island Beach State Park, about 6.6 mi south of the main entrance, Lacey Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 397 ft, screened 377 to 397 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 8.50 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 3.40 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation.

PERIOD OF RECORD.--July 1962 to current year. Records for 1962 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.05 ft below land surface, Dec. 6, 1962; lowest, 6.27 ft below land surface, between Dec. 22, 1993 and Mar. 11, 1994.

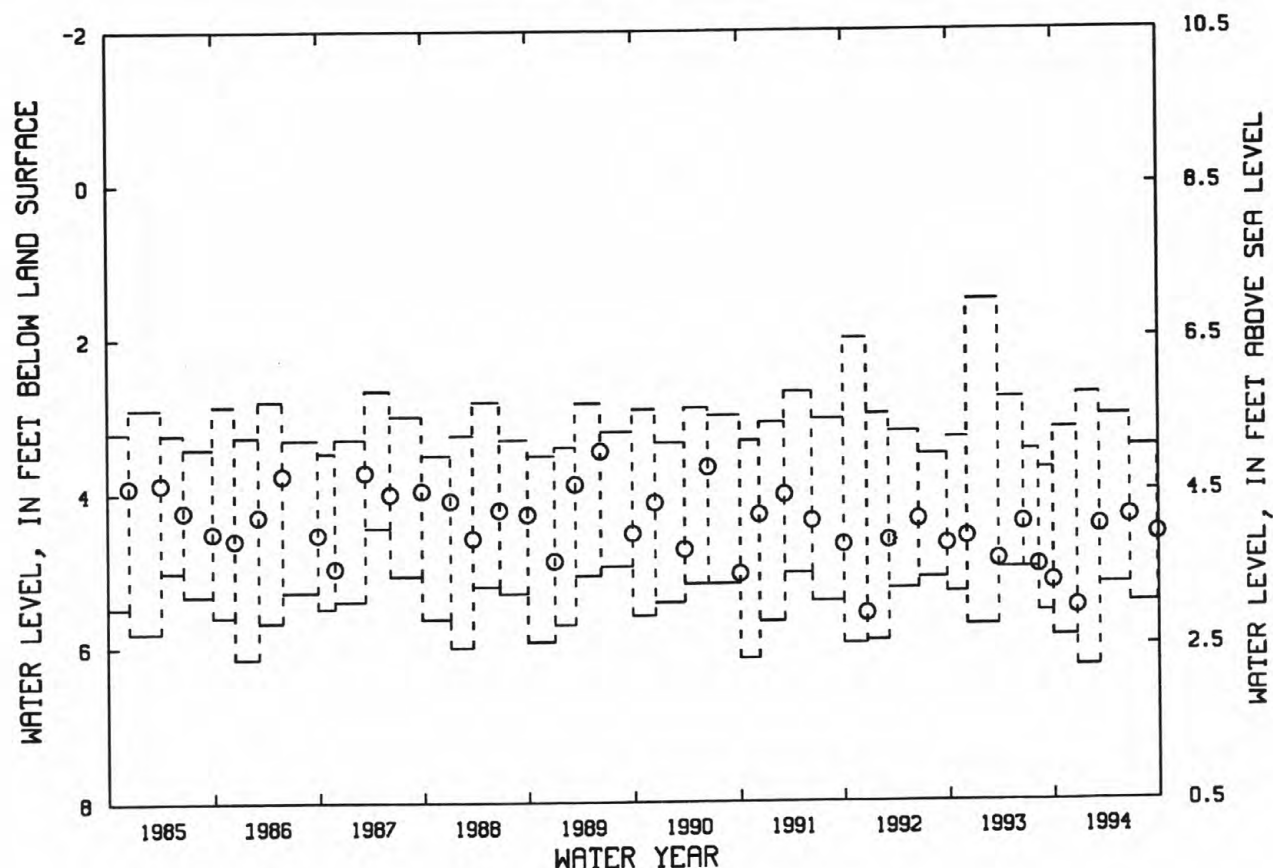
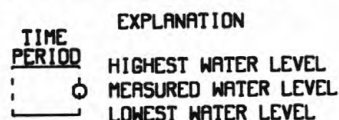
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 29, 1993 TO DEC. 22, 1993	3.18	5.88	DEC. 22, 1993	5.50
DEC. 22, 1993 TO MAR. 11, 1994	2.74	6.27	MAR. 11, 1994	4.45
MAR. 11, 1994 TO JUNE 22, 1994	3.02	5.21	JUNE 22, 1994	4.33
JUNE 22, 1994 TO SEPT. 27, 1994	3.42	5.45	SEPT. 27, 1994	4.56

NJ-WRD WELL NO. 29-0017



OCEAN COUNTY

394829074053502. Local I.D., Island Beach 2 Obs. NJ-WRD Well Number, 29-0018.

LOCATION.--Lat 39°48'29", long 74°05'35", Hydrologic Unit 02040301, in Island Beach State Park, about 6.6 mi. south of the main entrance, Lacey Township.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 474 ft, screened 468 to 474 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 8.50 ft above sea level.

Measuring point: Top of casing, 0.00 ft above land surface.

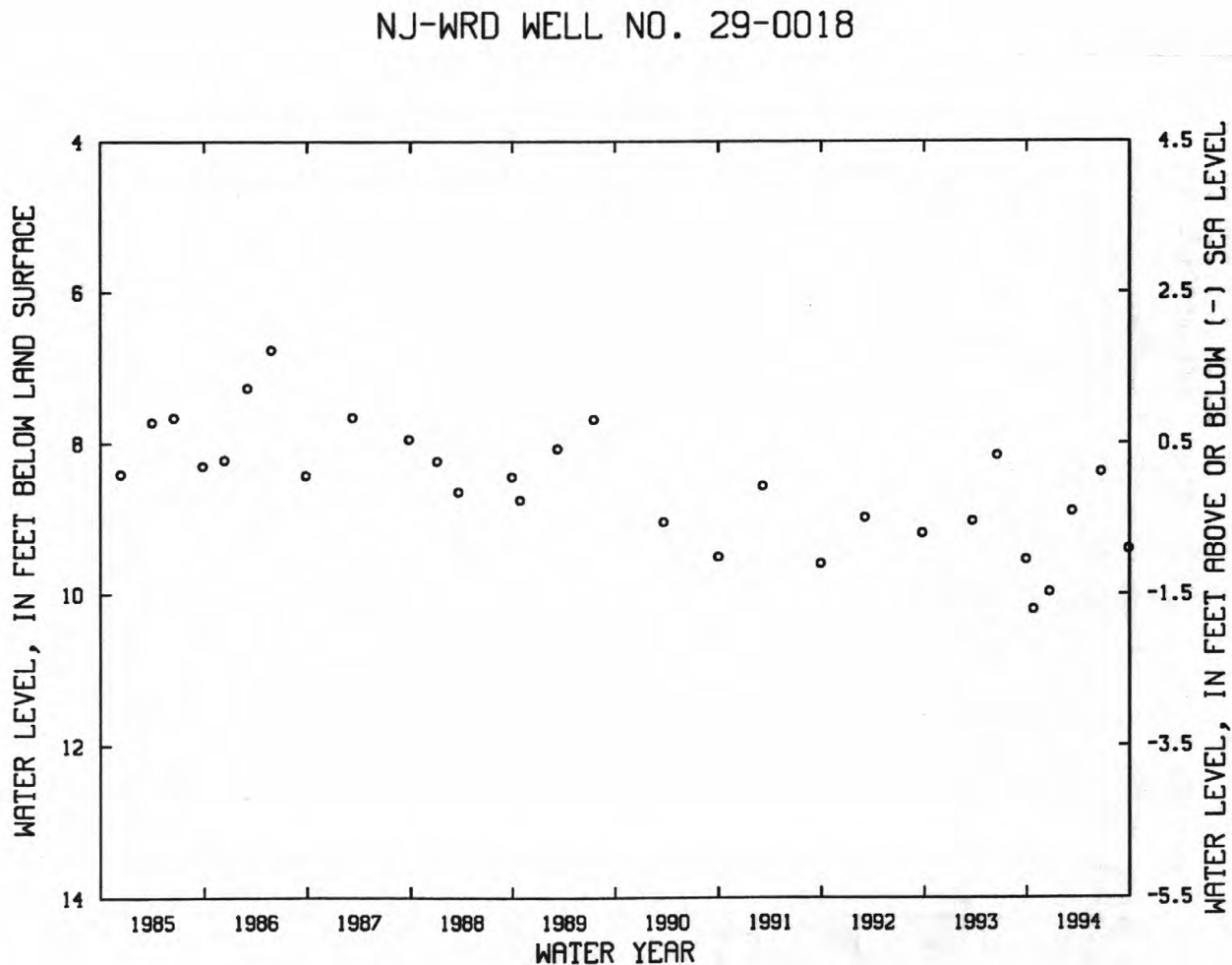
REMARKS.--Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--July 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.93 ft below land surface, June 7, 1963; lowest, 10.20 ft below land surface, Oct. 25, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.20	MAR 11	8.90	SEP 27	9.40
DEC 22	9.97	JUN 22	8.38		



OCEAN COUNTY

394829074053503. Local I.D., Island Beach 3 Obs. NJ-WRD Well Number, 29-0019.

LOCATION.--Lat 39°48'29", long 74°05'35", Hydrologic Unit 02040301, in Island Beach State Park, about 6.6 mi south of the main entrance, Lacey Township.

Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 2,756 ft, screened 2,736 to 2,756 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 9.02 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 5.11 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation. Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--Nov. 1968 to current year. Records for 1968 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.95 ft above land surface, Apr. 23, 1969; lowest, 23.00 ft below land surface, between Dec. 12, 1989 and Mar. 22, 1990.

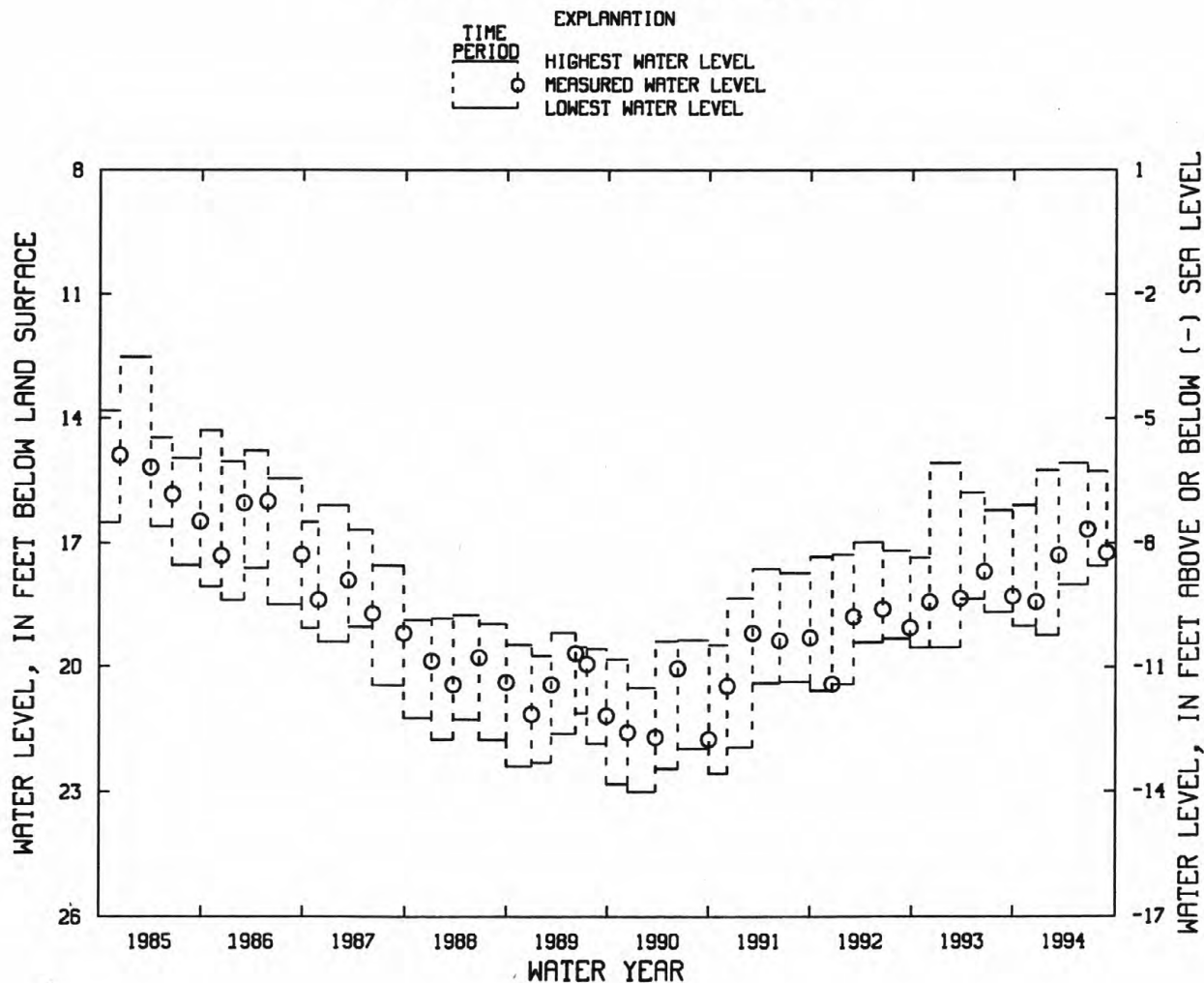
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 29, 1993 TO DEC. 22, 1993	16.09	19.01	DEC. 22, 1993	18.42
DEC. 22, 1993 TO MAR. 11, 1994	15.25	19.23	MAR. 11, 1994	17.29
MAR. 11, 1994 TO JUNE 22, 1994	15.08	18.00	JUNE 22, 1994	16.67
JUNE 22, 1994 TO AUG. 29, 1994	15.27	17.55	AUG. 29, 1994	17.23
AUG. 29, 1994 TO SEPT. 27, 1994	13.67	17.79	SEPT. 27, 1994	16.36

NJ-WRD WELL NO. 29-0019



OCEAN COUNTY

394829074053504. Local I.D., Island Beach 4 Obs. NJ-WRD Well Number, 29-0020.

LOCATION.--Lat 39°48'29", Long 74°05'35", Hydrologic Unit 02040301, in Island Beach State Park, about 6.6 mi. south of the main entrance, Lacey Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, depth 12 ft, screened 9 to 12 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 8.19 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 2.62 ft above land surface.

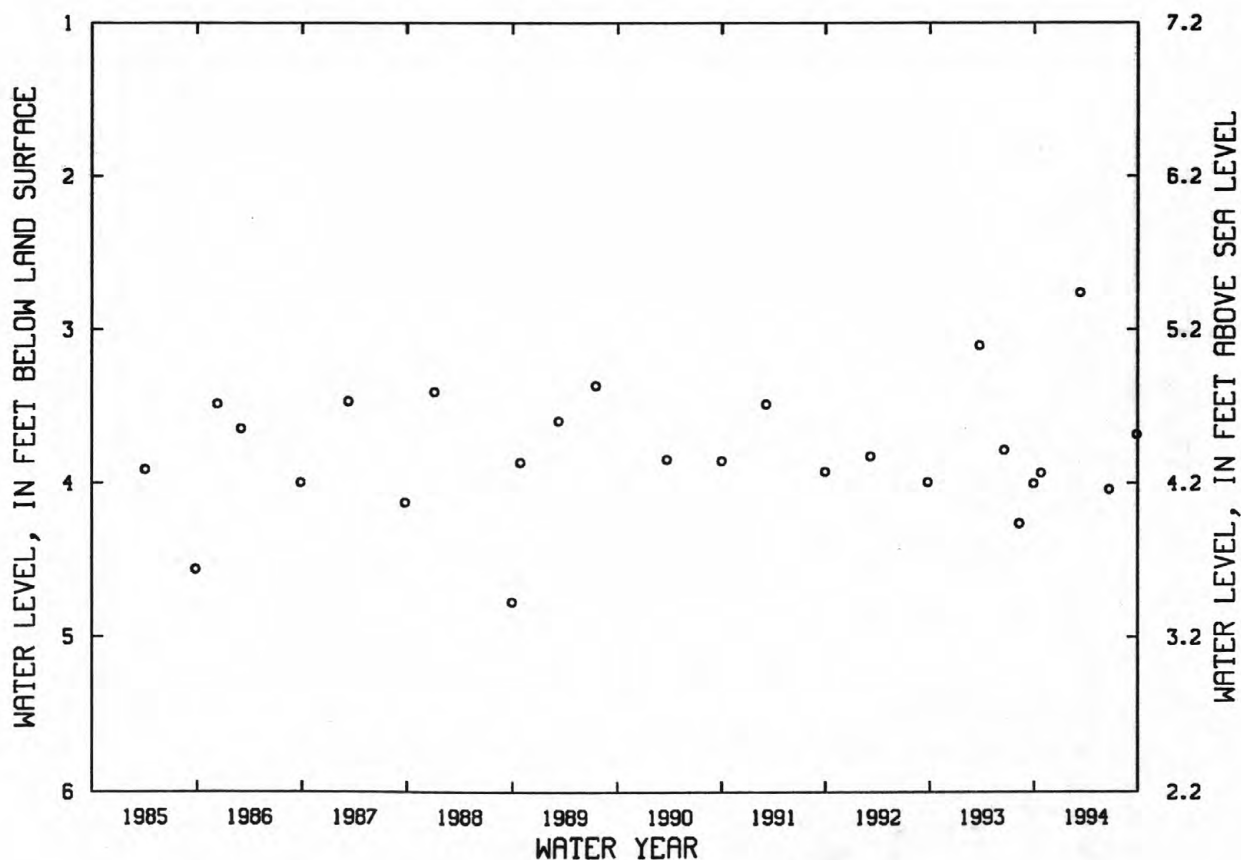
PERIOD OF RECORD.--June 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.42 ft below land surface, June 24, 1964; lowest, 4.82 ft below land surface, Aug. 6, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.93	MAR 11	2.76	JUN 22	4.04	SEP 27	3.68

NJ-WRD WELL NO. 29-0020



OCEAN COUNTY

395028074104401. Local I.D., DOE-Forked River Obs. NJ-WRD Well Number, 29-0585.

LOCATION.--Lat 39°50'28", long 74°10'44", Hydrologic Unit 02040301, at the Forked River Game Farm, Forked River, Lacey Township.

Owner: State of New Jersey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 422 ft, perforated casing 412 to 422 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 15 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.80 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

PERIOD OF RECORD.--Apr. 1984 to current year.

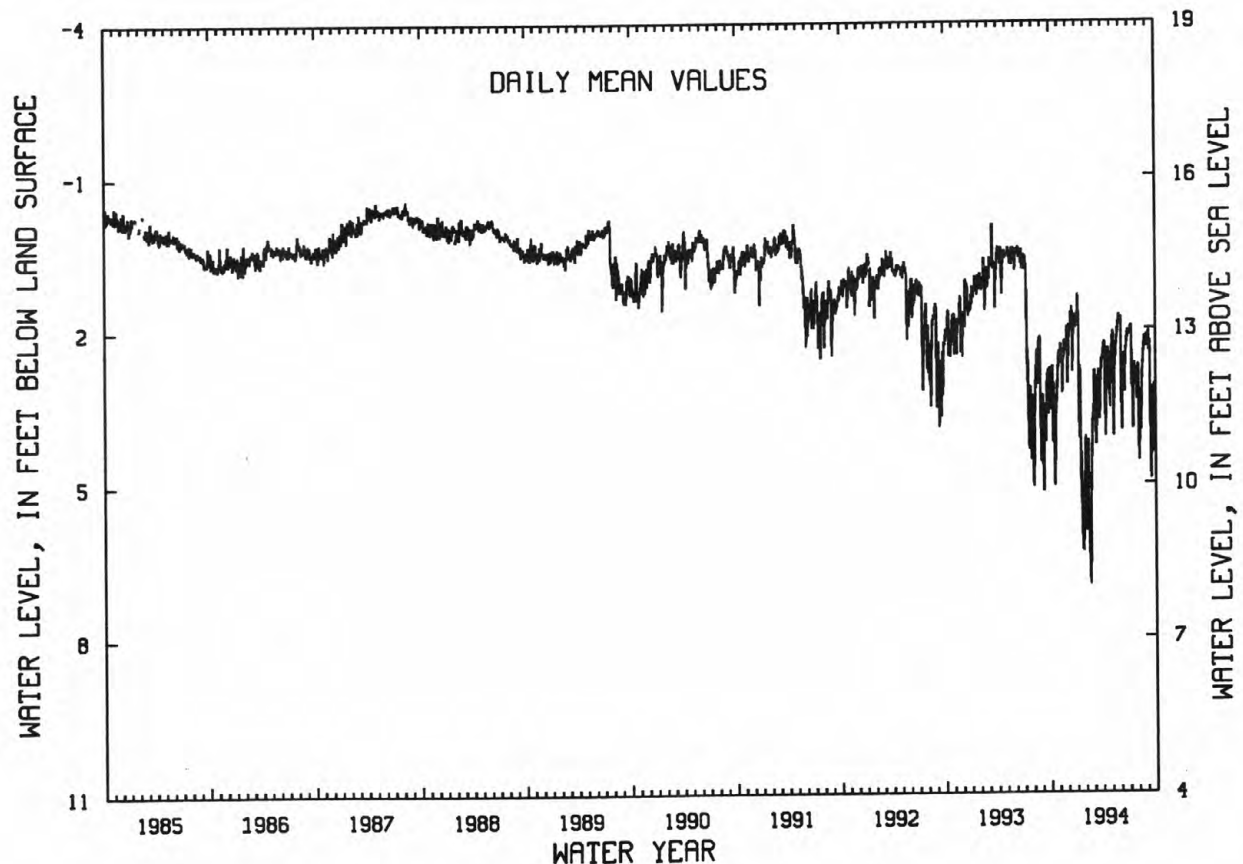
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.83 ft above land surface, June 1, 1984; lowest, 7.08 ft below land surface, Feb. 17, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.83	2.35	1.92	1.56	5.89	2.93	2.38	2.05	3.79	1.99	3.95	2.09
10	4.20	2.41	1.85	4.12	5.24	4.25	3.58	3.47	2.69	3.15	3.98	2.24
15	4.10	2.53	1.58	4.27	6.63	3.05	2.71	2.49	3.23	3.40	2.68	4.91
20	4.00	2.22	2.11	5.94	5.00	2.82	2.45	2.14	2.36	2.91	2.38	3.12
25	3.18	2.38	1.73	5.33	3.80	2.97	2.62	1.82	2.03	2.77	2.21	3.48
EOM	2.44	3.06	1.84	4.23	3.67	2.64	2.51	1.88	2.02	2.71	2.36	4.02
MEAN	3.40	2.48	2.00	4.05	5.10	3.17	2.75	2.38	2.53	2.72	2.88	3.26

WTR YR 1994 MEAN 3.05 HIGH 1.22 JAN 4 LOW 7.08 FEB 17

NJ-WRD WELL NO.29-0585



OCEAN COUNTY

395323074225501. Local I.D., Webbs Mills 2 Obs. NJ-WRD Well Number, 29-0425.

LOCATION.--Lat 39°53'22", long 74°22'52", Hydrologic Unit 02040301, about 180 ft west of County Rt. 539, and about 500 ft north of Webbs Mill Branch, Lacey Township.

Owner: U.S. Geological Survey.

AQUIFER.--Piney Point aquifer of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 348 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 128.27 ft above sea level.

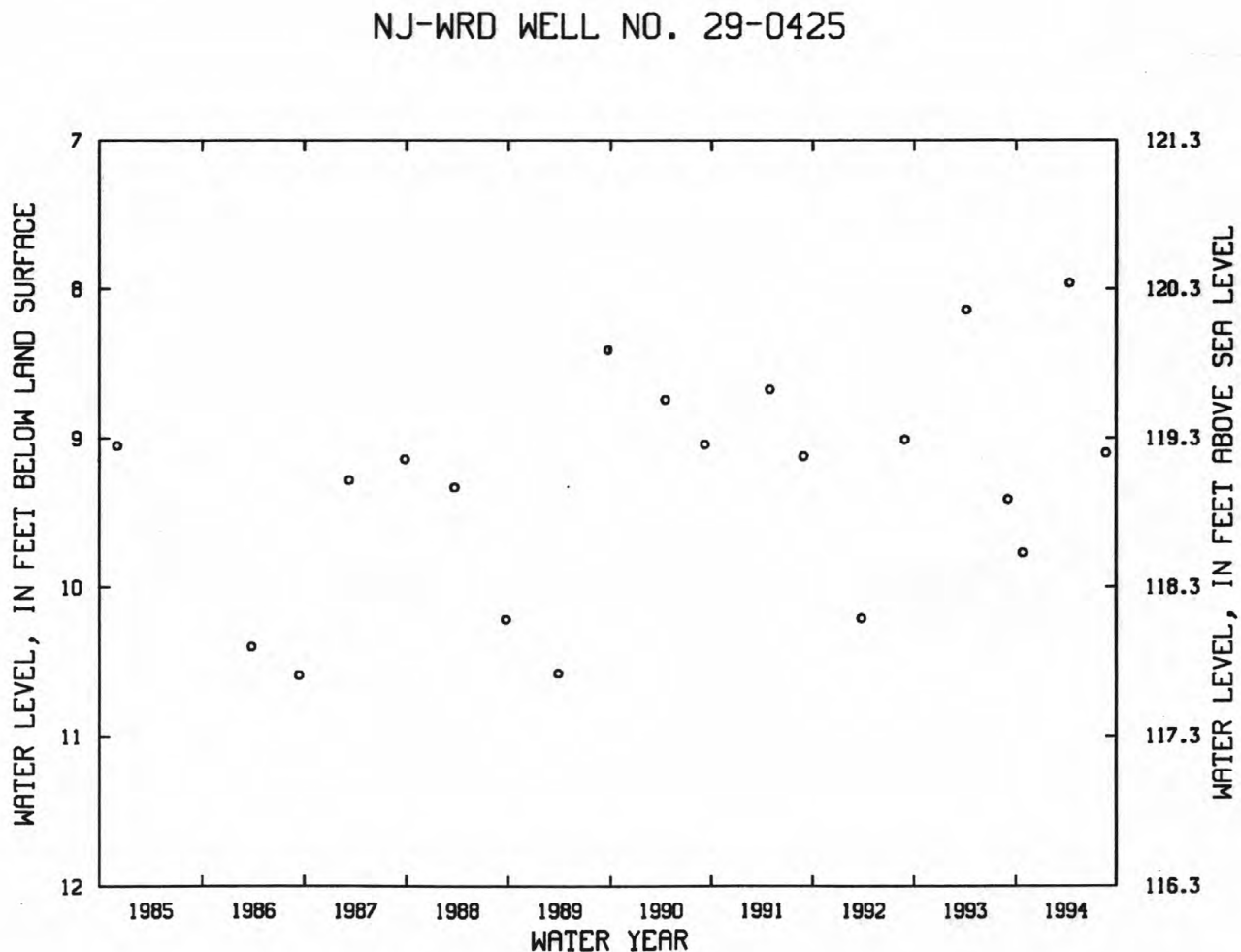
Measuring point: Top of shelf, 1.90 ft above land surface.

PERIOD OF RECORD.--Feb. 1962 to current year. Records for 1962 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.01 ft below land surface, Apr. 20, 1973; lowest, 11.40 ft below land surface, Sept. 12, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.77	APR 13	7.96	AUG 24	9.10



OCEAN COUNTY

395609074124001. Local I.D., Toms River 2 Obs. NJ-WRD Well Number, 29-0534.

LOCATION.--Lat 39°56'09", long 74°12'40", Hydrologic Unit 02040301, about 200 ft east of Double Trouble Rd. on the north side of Jakes Branch, South Toms River Borough.

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 1,146 ft, screened 1,080 to 1,146 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Water-level extremes recorder, Feb. 1977 to Sept. 1990.

DATUM.--Land surface is 18.34 ft above sea level.

Measuring point: Top of coupling, 2.44 ft above land surface.

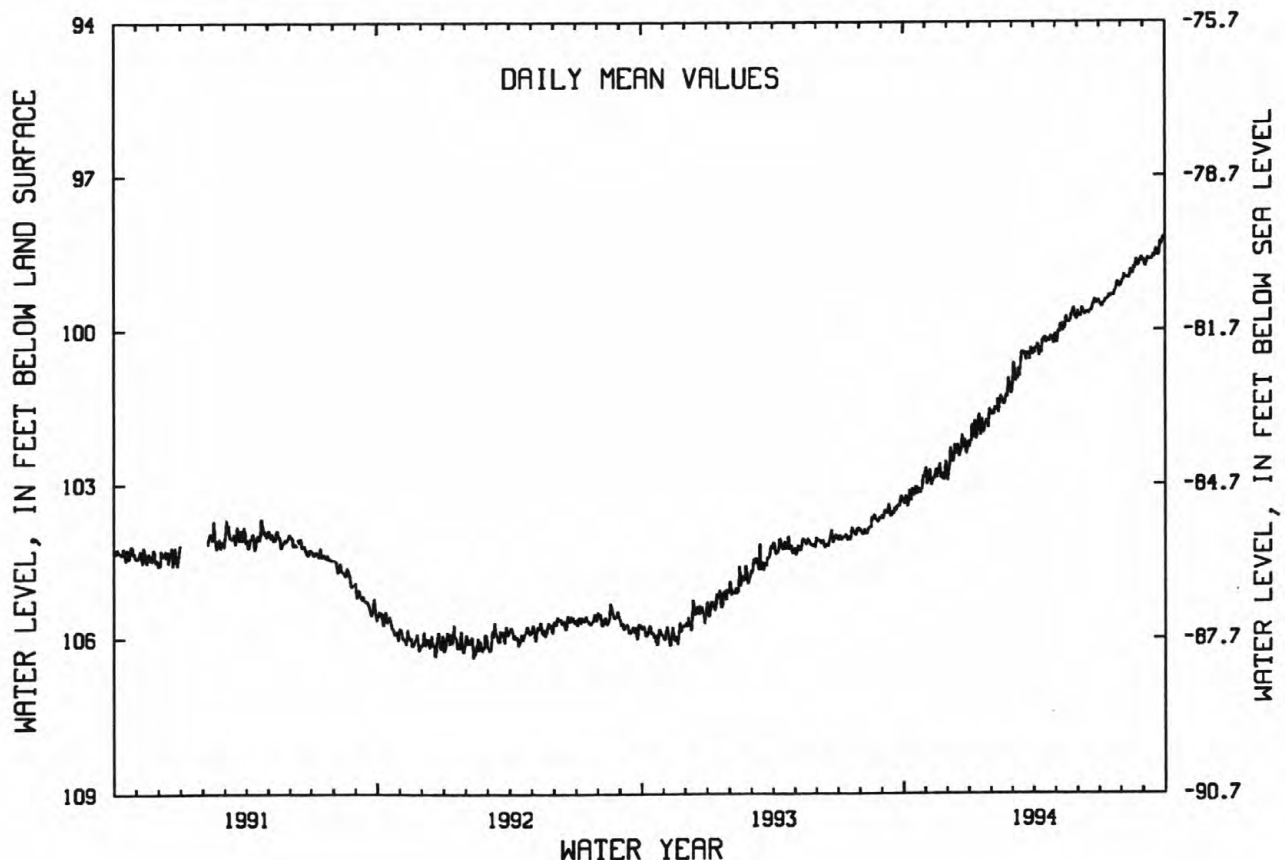
PERIOD OF RECORD.--Dec. 1965 to current year. Records for 1965 to 1976 and 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 48.37 ft below land surface, May 28, 1966; lowest, 106.41 ft below land surface, Dec. 19-20, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.30	102.75	102.28	102.00	101.49	100.79	100.35	100.01	99.74	99.54	98.93	98.68
10	103.22	102.91	102.40	102.11	101.60	100.74	100.33	99.98	99.67	99.41	98.97	98.62
15	103.20	102.69	102.21	101.78	101.32	100.44	100.22	99.89	99.67	99.32	98.84	98.58
20	103.14	102.59	102.34	101.99	101.34	100.52	100.19	99.84	99.64	99.34	98.80	98.56
25	103.08	102.90	102.11	101.80	101.06	100.43	100.11	99.63	99.40	99.15	98.75	98.33
EOM	102.67	102.81	102.27	101.62	101.23	100.46	100.16	99.76	99.43	99.15	98.65	98.27
MEAN	103.13	102.81	102.36	101.87	101.37	100.63	100.26	99.88	99.60	99.33	98.85	98.51
WTR YR 1994	MEAN 100.72	HIGH 98.17	SEP 28-29	LOW 103.45	OCT 6							

NJ-WRD WELL NO.29-0534



OCEAN COUNTY

395930074142101. Local I.D., Toms River 84 Obs. NJ-WRD Well Number, 29-0085.

LOCATION.--Lat 39°59'29", long 74°14'20", Hydrologic Unit 02040301, at Toms River Plant, Ciba-Geigy Corporation, Dover Township.

Owner: Ciba-Geigy Corporation.

AQUIFER.--Potomac-Raritan-Magothy aquifer system, undifferentiated, of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 in., depth 1,480 ft, screened 1,460 to 1,480 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 66.71 ft above sea level.

Measuring point: Top of recorder shelf, 2.70 ft above land surface.

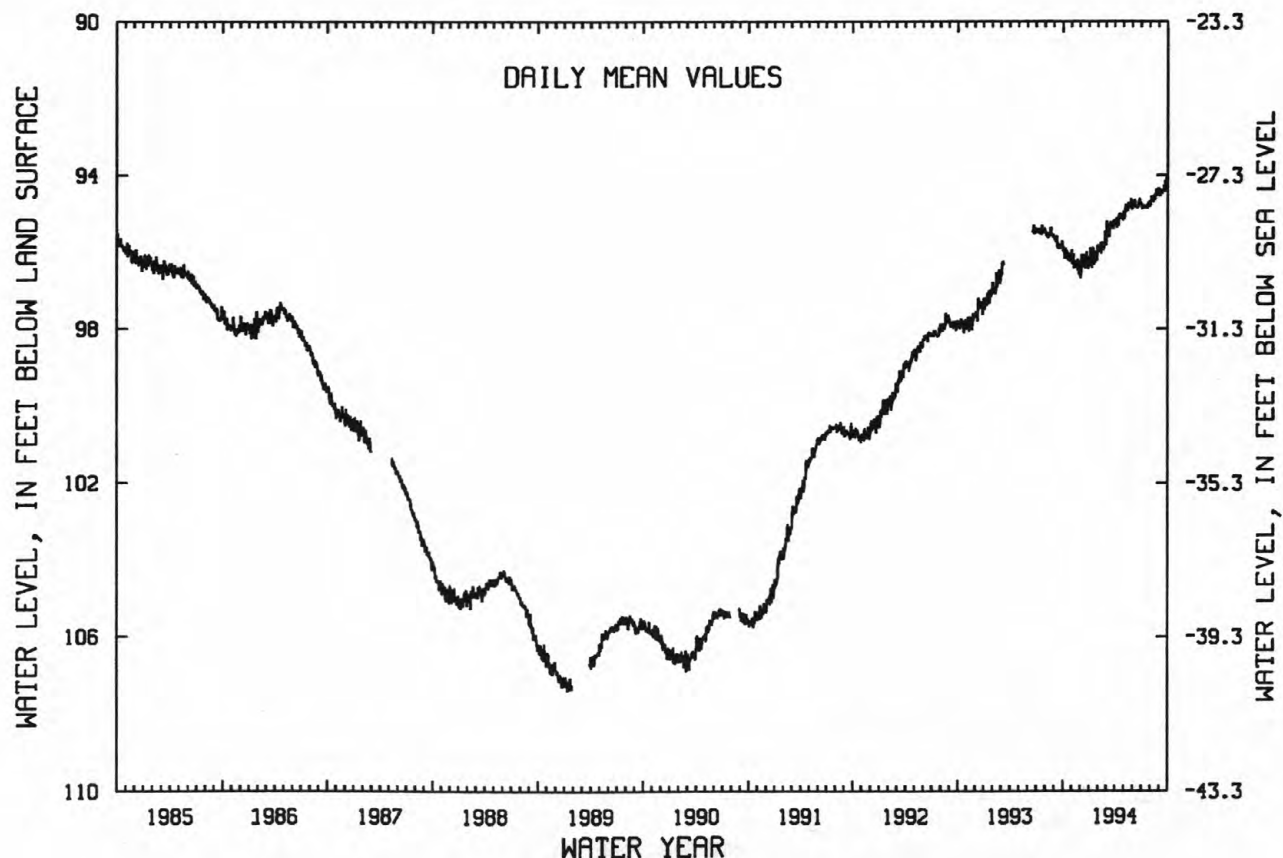
PERIOD OF RECORD.--July 1968 to current year. Records for 1968 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 62.32 ft below land surface, July 19, 1968, Feb. 9, 1969; lowest, 107.45 ft below land surface, Jan. 11, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	96.02	96.08	96.06	96.15	95.84	95.38	95.20	94.91	94.83	94.86	94.55	94.46
10	96.05	96.34	96.25	96.42	96.04	95.35	95.20	94.90	94.80	94.79	94.65	94.44
15	96.17	96.24	96.12	96.05	95.81	95.26	95.10	94.84	94.84	94.78	94.54	94.43
20	96.19	96.19	96.33	96.28	95.87	95.34	95.08	94.85	94.82	94.86	94.55	94.43
25	96.19	96.55	96.11	96.11	95.60	95.24	95.01	94.67	94.61	94.72	94.49	94.19
EOM	95.94	96.57	96.37	95.93	95.81	95.27	95.05	94.83	94.71	94.79	94.40	94.11
MEAN	96.08	96.33	96.29	96.12	95.84	95.37	95.14	94.85	94.76	94.80	94.55	94.34
WTR YR 1994	MEAN 95.37 HIGH 94.01 SEP 29 LOW 96.71 DEC 1											

NJ-WRD WELL NO.29-0085



OCEAN COUNTY

400120074265401. Local I.D., Fort Dix RLF-30 Obs. NJ-WRD Well Number, 29-1059.

LOCATION.--Lat 40°01'20", long 74°26'54", Hydrologic Unit 02040301, at the Fort Dix Military Reservation, Plumsted Township.

Owner: US Army - Fort Dix.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 75 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 180 ft above sea level, from topographic map.

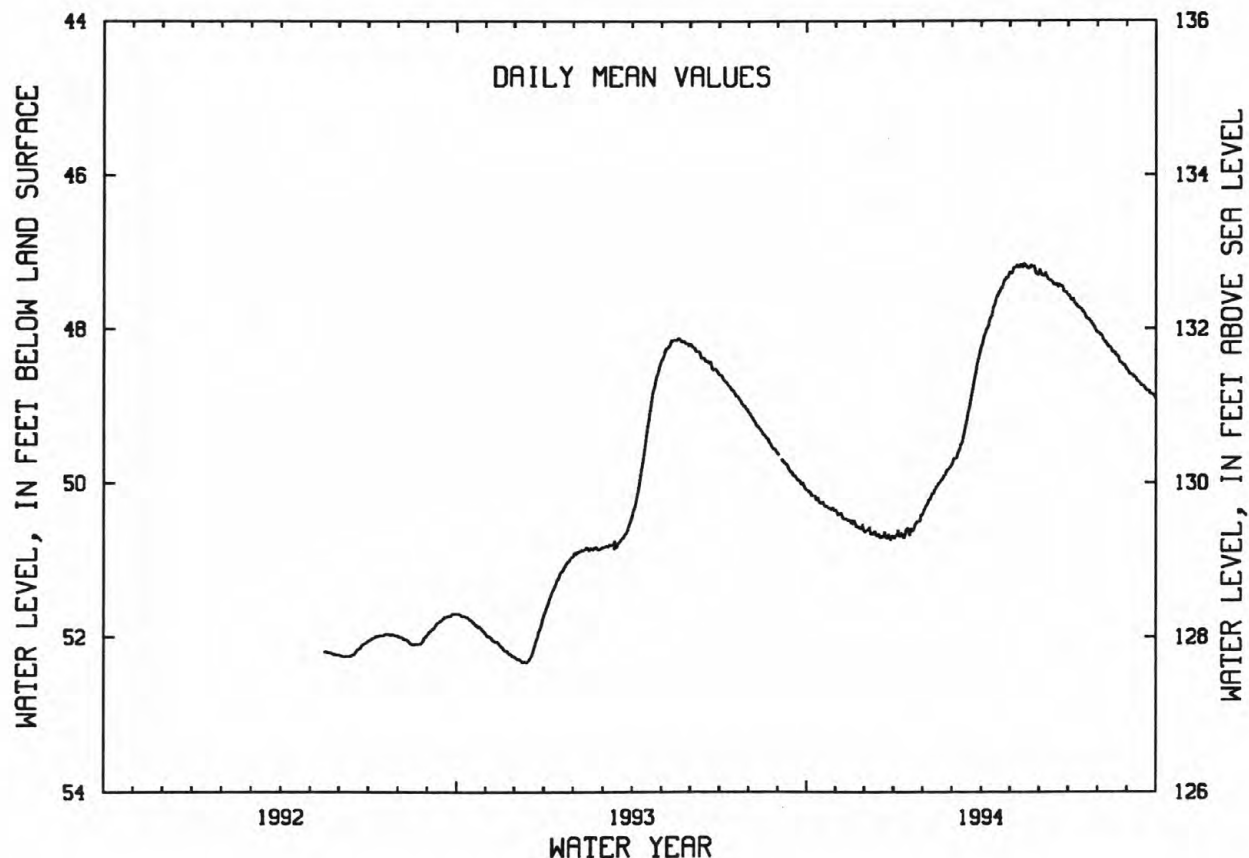
Measuring point: Top of recorder shelf, 2.15 ft above land surface.

PERIOD OF RECORD.--May 1992 to current year. Records for 1992 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.12 ft below land surface, May 16, 1994;
lowest, 52.34 ft below land surface, Dec. 9, 12-13, 1992.WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.15	50.38	50.57	50.69	50.22	49.68	48.05	47.20	47.32	47.62	48.10	48.60
10	50.21	50.46	50.63	50.71	50.14	49.51	47.85	47.20	47.36	47.70	48.20	48.67
15	50.25	50.49	50.66	50.63	50.01	49.27	47.67	47.16	47.41	47.75	48.28	48.74
20	50.30	50.51	50.70	50.60	49.93	48.97	47.52	47.21	47.46	47.86	48.35	48.80
25	50.33	50.59	50.66	50.50	49.83	48.61	47.37	47.18	47.46	47.92	48.44	48.85
EOM	50.35	50.62	50.72	50.35	49.78	48.27	47.28	47.28	47.55	48.05	48.53	48.91
MEAN	50.24	50.49	50.67	50.59	50.04	49.13	47.69	47.21	47.40	47.79	48.29	48.73
WTR YR 1994	MEAN 49.02	HIGH 47.12 MAY 16	LOW 50.74 DEC 26-28									

NJ-WRD WELL NO.29-1059



OCEAN COUNTY

400210074031001. Local I.D., Mantoloking 6 Obs. NJ-WRD Well Number, 29-0503.

LOCATION.--Lat 40°02'10", long 74°03'10", Hydrologic Unit 02040301, at the Bay Ave. water treatment plant, Mantoloking Borough.

Owner: New Jersey - American Water Company.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian unused public-supply well, diameter 8 in., depth 906 ft, screened 845 to 906 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 5 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 2.40 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--May 1984 to current year.

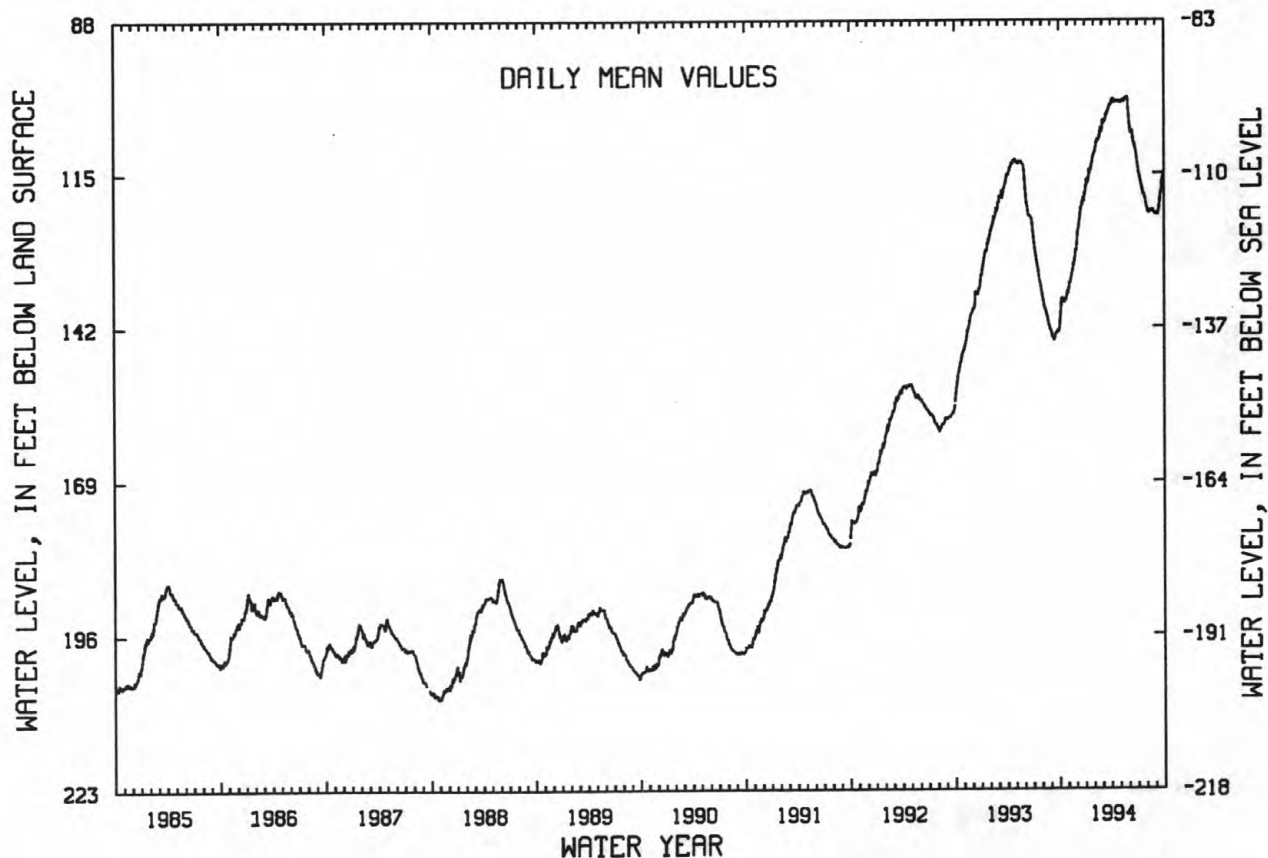
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 100.94 ft below land surface, May 26, 1994; lowest, 207.49 ft below land surface, Oct. 31, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	140.35	134.47	125.34	116.68	110.81	106.13	102.12	102.16	106.63	114.74	121.45	121.84
10	137.08	133.82	123.68	116.64	109.82	105.49	102.12	102.27	107.66	115.78	121.89	121.95
15	137.61	132.40	121.60	114.48	109.22	104.58	102.28	102.27	108.73	117.15	121.60	120.25
20	137.53	130.80	120.69	114.31	108.44	104.29	102.39	101.76	110.01	118.50	121.39	118.30
25	137.32	129.93	119.25	112.89	107.48	103.24	102.29	101.51	111.09	119.02	121.84	116.01
EOM	135.54	128.68	118.39	111.61	107.60	103.00	102.45	103.90	112.93	120.62	122.17	114.73
MEAN	138.02	132.27	122.19	114.66	109.19	104.70	102.33	102.17	108.93	117.22	121.64	119.31

WTR YR 1994 MEAN 116.11 HIGH 100.94 MAY 26 LOW 142.97 OCT 1

NJ-WRD WELL NO.29-0503



OCEAN COUNTY

400232074213201. Local I.D., LNAS-EC Obs. NJ-WRD Well Number, 29-1060.

LOCATION.--Lat 40°02'37", long 74°21'28", Hydrologic Unit 02040301, at Lakehurst Naval Air Station, Jackson Township.

Owner: Lakehurst Naval Air Station.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 38 ft, screened 23 to 38 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 110 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.70 ft above land surface.

PERIOD OF RECORD.--May 1992 to current year. Records for 1992 are unpublished and are available in files of the New Jersey District Office.

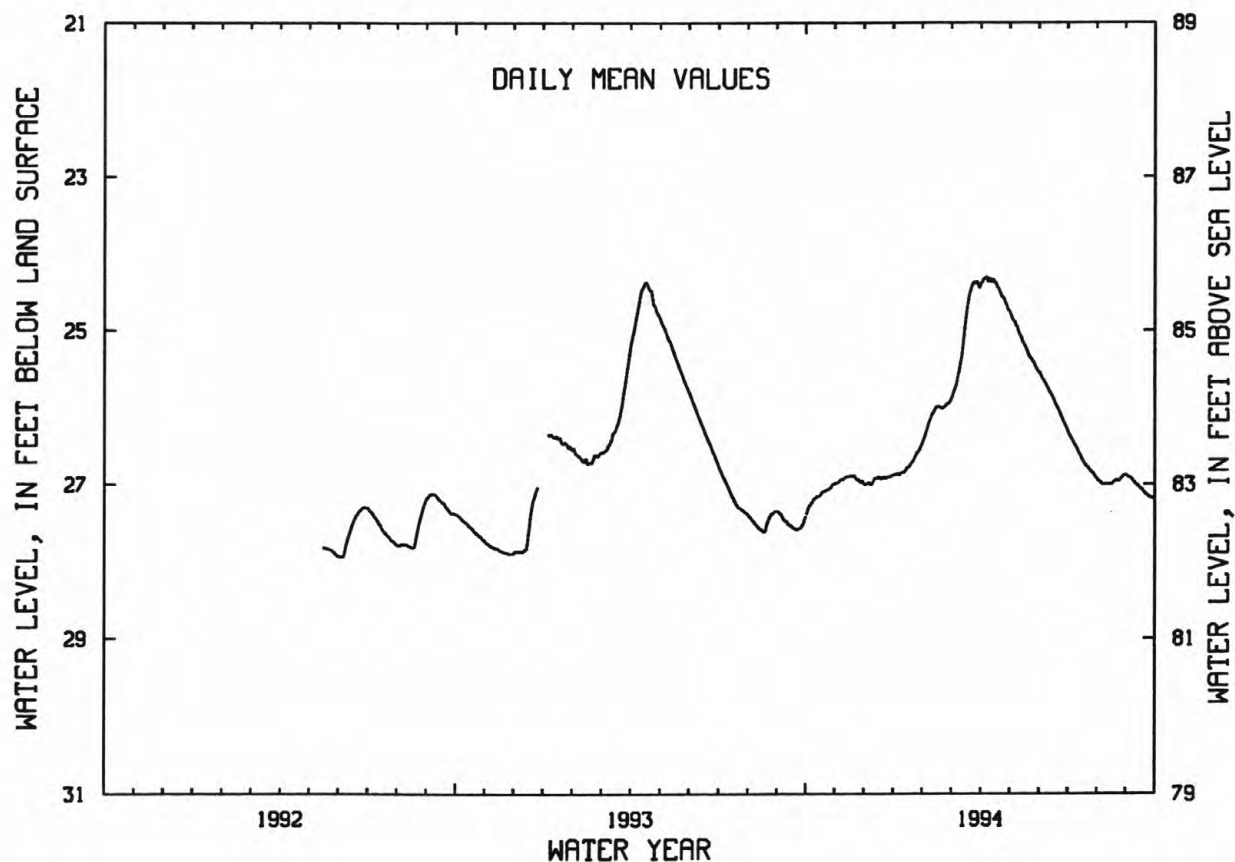
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.29 ft below land surface, Apr. 7, 1994;

lowest, 27.94 ft below land surface, June 3-6, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.26	26.94	26.96	26.87	26.21	25.73	24.32	24.87	25.64	26.41	26.98	26.92
10	27.17	26.91	26.94	26.84	26.07	25.43	24.32	25.02	25.75	26.52	26.99	26.99
15	27.14	26.88	26.89	26.77	25.98	24.94	24.38	25.16	25.87	26.65	27.00	27.05
20	27.08	26.88	26.92	26.69	26.01	24.51	24.49	25.30	26.01	26.76	26.96	27.12
25	27.05	26.95	26.89	26.58	25.96	24.37	24.60	25.40	26.14	26.83	26.94	27.17
EOM	26.98	26.99	26.87	26.41	25.91	24.42	24.74	25.54	26.28	26.92	26.88	27.18
MEAN	27.13	26.93	26.93	26.72	26.06	24.98	24.46	25.17	25.90	26.65	26.96	27.05
WTR YR 1994	MEAN 26.25	HIGH 24.29	APR 7	LOW 27.40	OCT 1							

NJ-WRD WELL NO.29-1060



OCEAN COUNTY

400416074270101. Local I.D., Colliers Mills 1 Obs. NJ-WRD Well Number, 29-0138.

LOCATION.--Lat 40°04'14", long 74°27'02", Hydrologic Unit 02040301, along western shore of Colliers Mills Pond, Jackson Township.

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 427 ft, screened 417 to 427 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 136.52 ft above sea level.

Measuring point: Top of coupling, 2.20 ft above land surface.

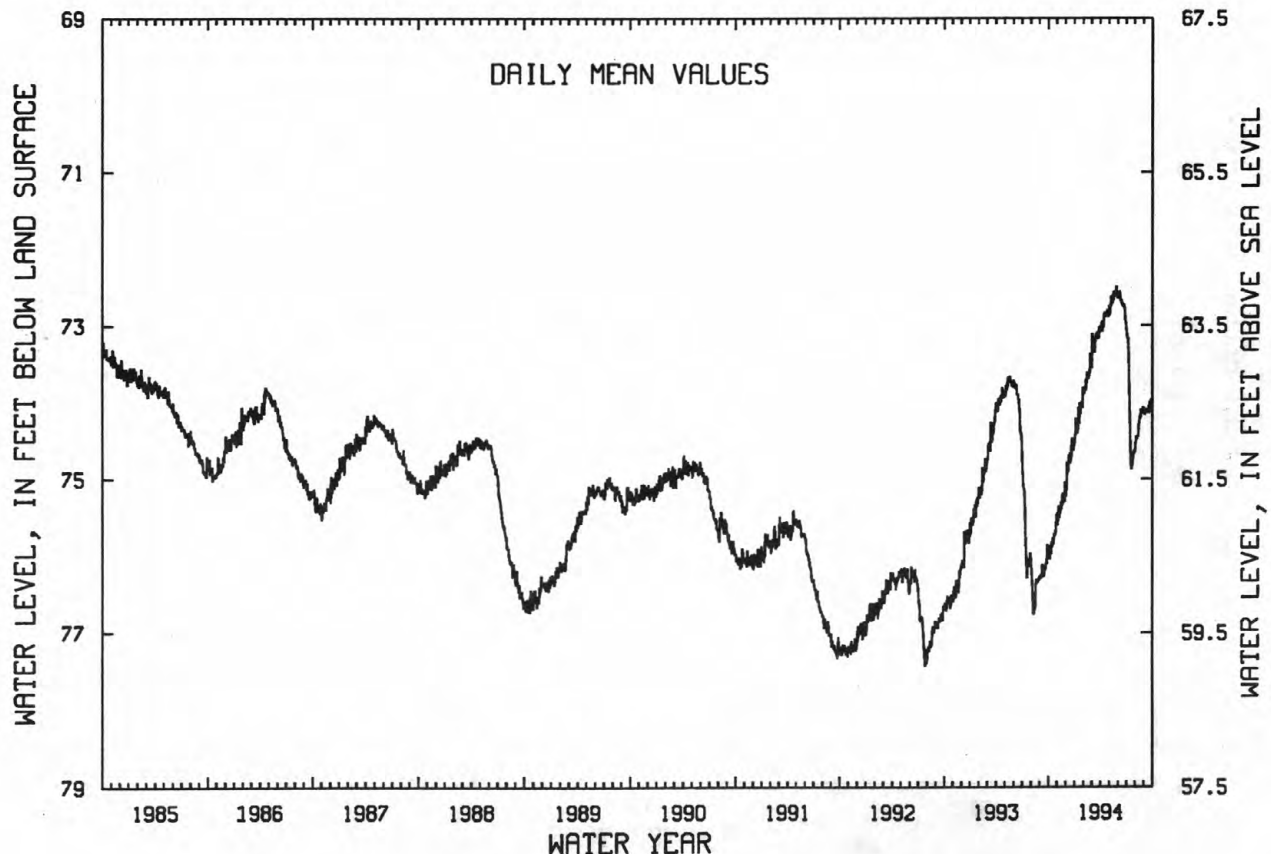
PERIOD OF RECORD.--Feb. 1964 to current year. Records for 1964 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 52.02 ft below land surface, Feb. 19, 1964; lowest, 77.43 ft below land surface, July 25, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.96	75.40	74.78	74.33	73.80	73.22	73.01	72.73	72.65	73.17	74.44	74.11
10	75.93	75.44	74.81	74.41	73.84	73.19	72.97	72.69	72.65	73.50	74.44	74.11
15	75.87	75.30	74.66	74.14	73.64	73.14	72.89	72.66	72.71	74.38	74.23	74.12
20	75.80	75.18	74.71	74.16	73.64	73.16	72.86	72.61	72.76	74.87	74.20	74.13
25	75.69	75.30	74.48	74.04	73.45	73.09	72.80	72.54	72.79	74.73	74.13	74.04
EOM	75.44	75.17	74.53	73.89	73.56	73.07	72.82	72.62	73.00	74.65	74.10	74.03
MEAN	75.80	75.34	74.73	74.16	73.68	73.19	72.92	72.65	72.73	74.13	74.29	74.08
WTR YR 1994 MEAN 73.98 HIGH 72.46 MAY 26-27 LOW 76.05 OCT 6												

NJ-WRD WELL NO.29-0138



OCEAN COUNTY

400416074270102. Local I.D., Colliers Mills 2 Obs. NJ-WRD Well Number, 29-0139.

LOCATION.--Lat 40°04'14", long 74°27'02", Hydrologic Unit 02040301, along western shore of Colliers Mills Pond, Jackson Township.

Owner: U.S. Geological Survey.

AQUIFER.--Vincentown aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 171 ft, screened 161 to 171 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 135.76 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 3.25 ft above land surface.

PERIOD OF RECORD.--Jan. 1964 to current year. Records for 1964 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.92 ft below land surface, between Apr. 3 and July 11, 1984; lowest, 6.77 ft below land surface, between Dec. 4, 1984 and Mar. 6, 1985 and between Aug. 6 and Sept. 26, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

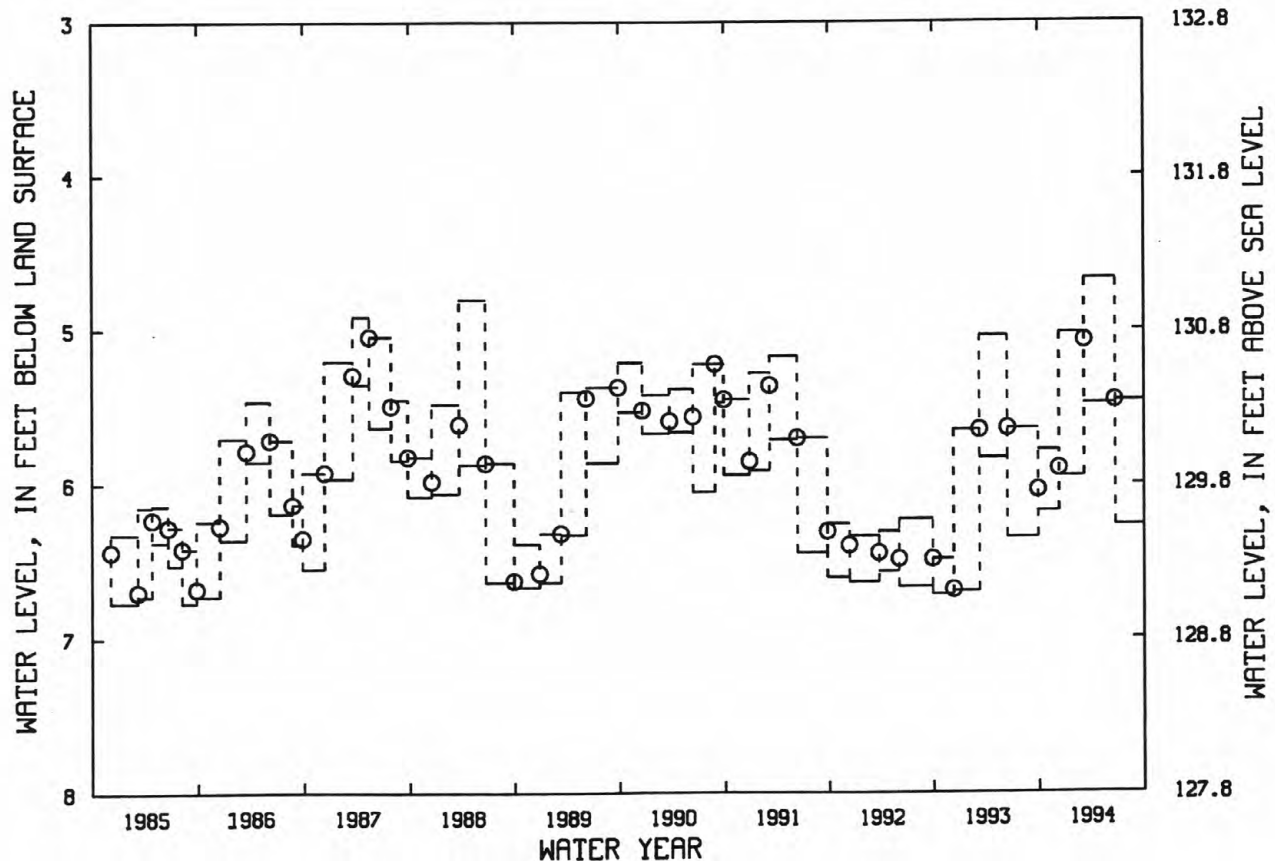
WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 9, 1993	5.78	6.18	DEC. 9, 1993	5.90
DEC. 9, 1993 TO MAR. 7, 1994	5.02	5.95	MAR. 7, 1994	5.07
MAR. 7, 1994 TO JUNE 22, 1994	4.67	5.48	JUNE 22, 1994	5.46
JUNE 22, 1994 TO OCT. 3, 1994	5.46	6.27	OCT. 3, 1994	6.20

NJ-WRD WELL NO. 29-0139

TIME
PERIOD
EXPLANATION
○ HIGHEST WATER LEVEL
○ MEASURED WATER LEVEL
[] LOWEST WATER LEVEL



OCEAN COUNTY

400416074270103. Local I.D., Colliers Mills 3 Obs. NJ-WRD Well Number, 29-0140.

LOCATION.--Lat 40°04'14", long 74°27'02", Hydrologic Unit 02040301, along western shore of Colliers Mills Pond, Jackson Township.

Owner: U.S. Geological Survey.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 267 ft, screened 257 to 267 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 135.15 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 3.49 ft above land surface.

PERIOD OF RECORD.--Jan. 1964 to current year. Records for 1964 to 1976 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.72 ft below land surface, May 9, 1964; lowest, 25.00 ft below land surface, between Dec. 9, 1992 and Mar. 8, 1993.

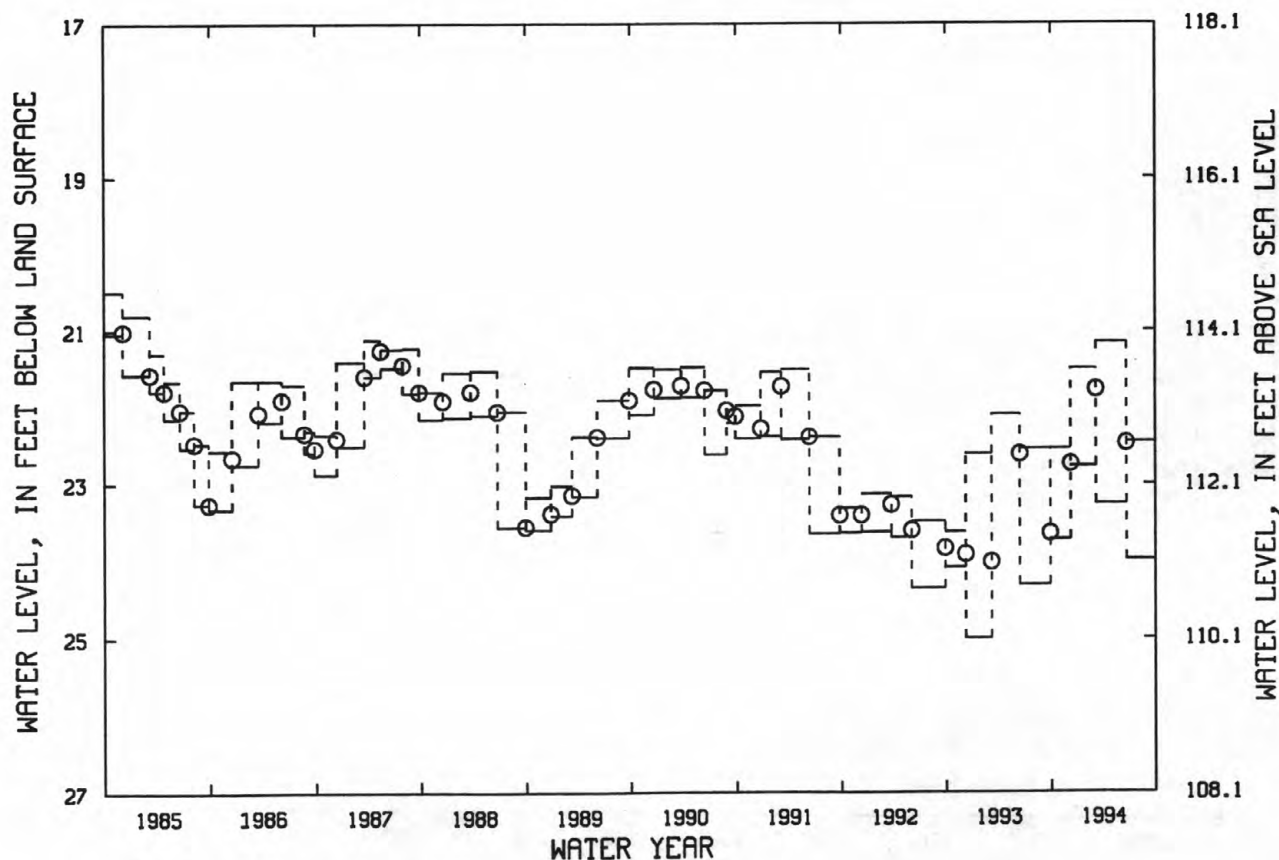
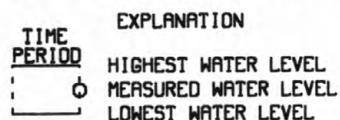
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 9, 1993	22.54	23.72	DEC. 9, 1993	22.74
DEC. 9, 1993 TO MAR. 7, 1994	21.50	22.77	MAR. 7, 1994	21.77
MAR. 7, 1994 TO JUNE 22, 1994	21.16	23.26	JUNE 22, 1994	22.47
JUNE 22, 1994 TO OCT. 3, 1994	22.45	23.98	OCT. 3, 1994	23.55

NJ-WRD WELL NO. 29-0140



OCEAN COUNTY

400416074270104. Local I.D., Colliers Mills 4 Obs. NJ-WRD Well Number, 29-0141.

LOCATION.--Lat 40°04'14", long 74°27'02", Hydrologic Unit 02040301, along western shore of Colliers Mills Pond, Jackson Township.

Owner: U.S. Geological Survey.

AQUIFER.--Kirkwood-Cohansey aquifer system of Miocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 71 ft, gravel-filled hole 46 to 71 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 135.31 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.86 ft above land surface.

REMARKS.--Water level is affected by the stage of Colliers Mills Pond.

PERIOD OF RECORD.--Mar. 1964 to current year. Records for 1964 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.68 ft below land surface, between Apr. 3 and July 11, 1984; lowest, 7.17 ft below land surface, between Dec. 4, 1984 and Mar. 6, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

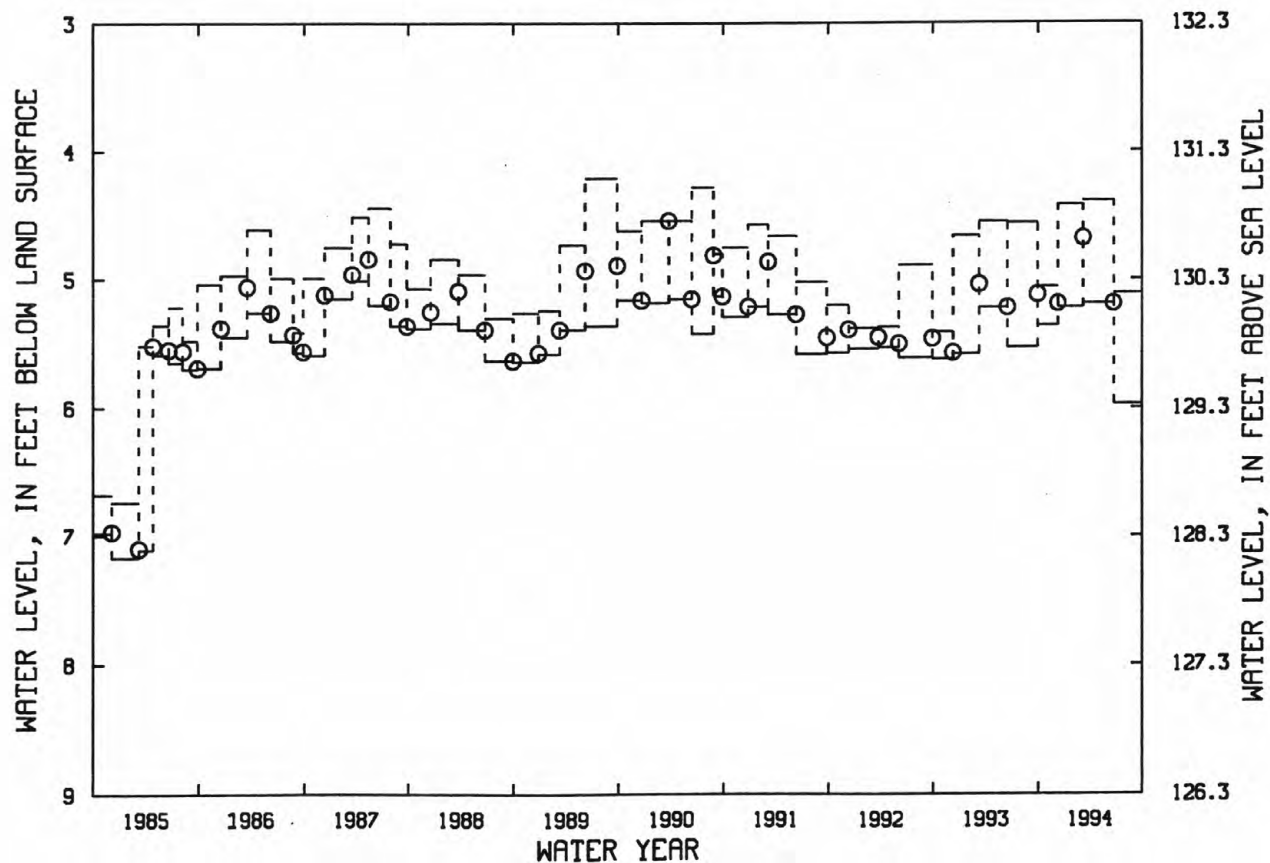
WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 28, 1993 TO DEC. 9, 1993	5.06	5.36	DEC. 9, 1993	5.19
DEC. 9, 1993 TO MAR. 7, 1994	4.42	5.22	MAR. 7, 1994	4.68
MAR. 7, 1994 TO JUNE 22, 1994	4.39	5.19	JUNE 22, 1994	5.19
JUNE 22, 1994 TO OCT. 3, 1994	5.11	5.97	OCT. 3, 1994	5.56

NJ-WRD WELL NO. 29-0141

EXPLANATION
 TIME PERIOD
 [] HIGHEST WATER LEVEL
 [] MEASURED WATER LEVEL
 [] LOWEST WATER LEVEL



OCEAN COUNTY

400454074041301. Local I.D., PPWD 6 Obs. NJ-WRD Well Number, 29-0530.

LOCATION.--Lat 40°04'54", long 74°04'13", Hydrologic Unit 02040301, at the Point Pleasant Borough public works facility, Albert E. Clifton Ave., Point Pleasant Borough.

Owner: Point Pleasant Water Department.

AQUIFER.--Englishtown aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian unused public-supply well, diameter 8 in., depth 790 ft, screened 730 to 790 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 20 ft above sea level from topographic map.

Measuring point: Top of pump base, 2.90 ft above land surface.

REMARKS.--Water level is affected by tidal fluctuation and nearby pumping.

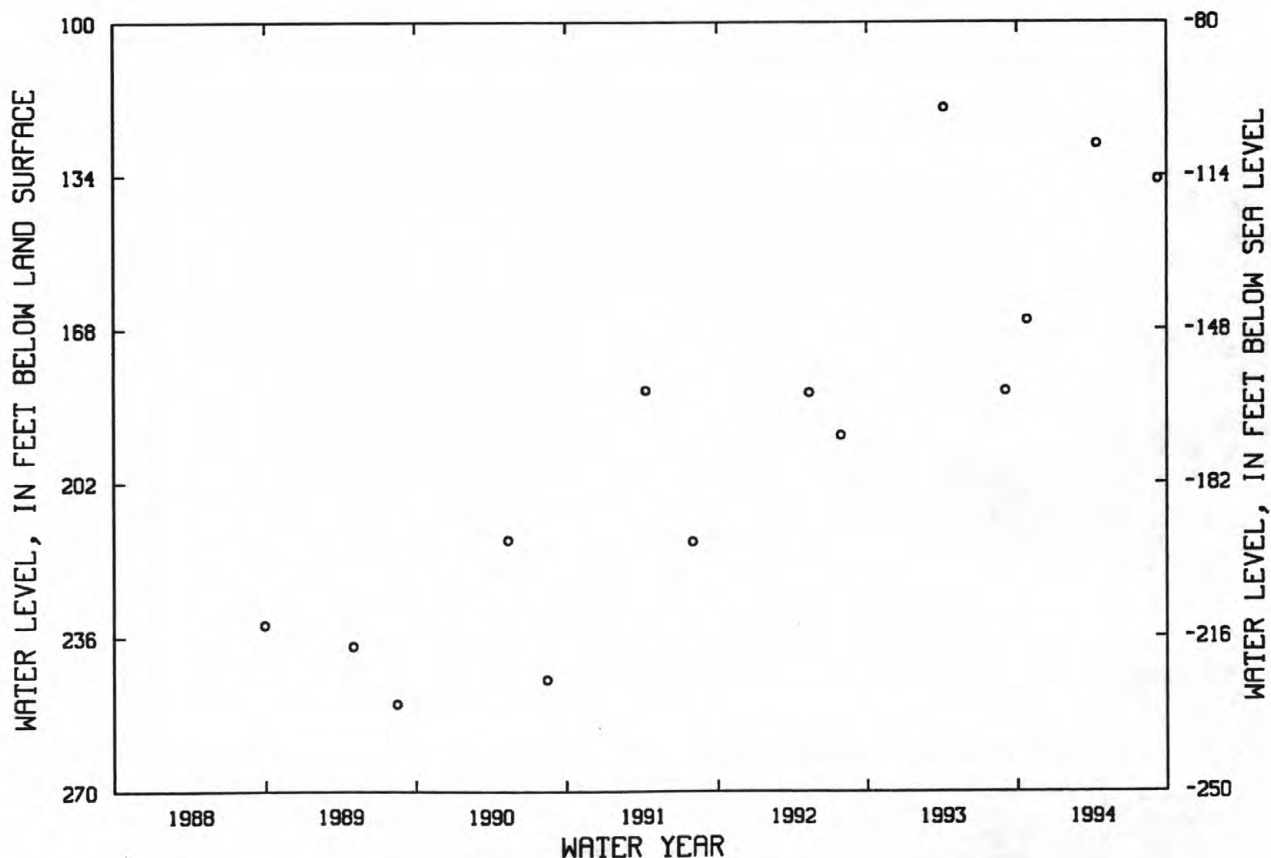
PERIOD OF RECORD.--Sept. 1988 to current year. Records for 1988 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 119.00 ft below land surface, Apr. 6, 1993; lowest, 250.66 ft below land surface, Aug 17, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 13	126.98	SEP 9	134.82

NJ-WRD WELL NO. 29-0530



SALEM COUNTY

393348075275701. Local I.D., Salem 1 Obs. NJ-WRD Well Number, 33-0251.

LOCATION.--Lat 39°33'48", long 75°27'55", Hydrologic Unit 02040206, about 300 ft south of the intersection of Elm and Magnolia Streets, Salem City.

Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 709 ft, screened 699 to 709 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 3.00 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.87 ft above land surface.

REMARKS.--Water-quality data for 1994 are available elsewhere in this report.

PERIOD OF RECORD.--Dec. 1965 to July 1970, Oct. 1972 to current year. Records for 1965 to 1970 and for 1972 to 1980 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.97 ft below land surface, Dec. 13, 1965; lowest, 35.27 ft below land surface, between Nov. 12, 1993 and Mar. 23, 1994.

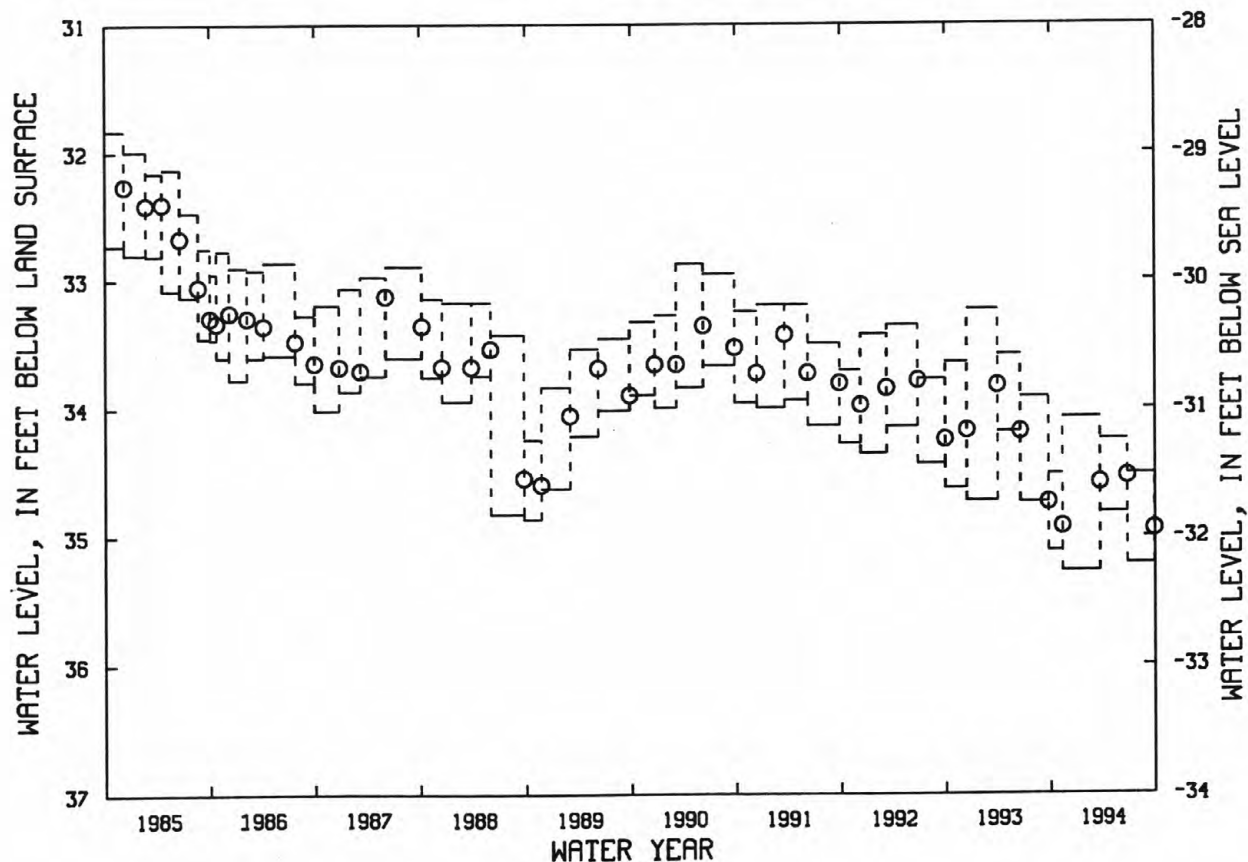
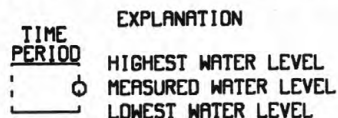
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 24, 1993 TO NOV. 12, 1993	34.51	35.11	NOV. 12, 1993	34.92
NOV. 12, 1993 TO MAR. 23, 1994	34.07	35.27	MAR. 23, 1994	34.58
MAR. 23, 1994 TO JUNE 27, 1994	34.24	34.81	JUNE 27, 1994	34.53
JUNE 27, 1994 TO SEPT. 28, 1994	34.51	35.21	SEPT. 28, 1994	34.94

NJ-WRD WELL NO. 33-0251



SALEM COUNTY

393348075275702. Local I.D., Salem 2 Obs. NJ-WRD Well Number, 33-0252.

LOCATION.--Lat 39°33'48", long 75°27'55", Hydrologic Unit 02040206, about 300 ft south of the intersection of Elm and Magnolia Streets, Salem City.

Owner: U.S. Geological Survey.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 96 ft, screened 91 to 96 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 3.25 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.77 ft above land surface.

PERIOD OF RECORD.--Nov. 1965 to current year. Records for 1965 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.51 ft above land surface, between Jan. 12 and Apr. 27, 1983; lowest, 6.45 ft below land surface, Sept. 9, 1966.

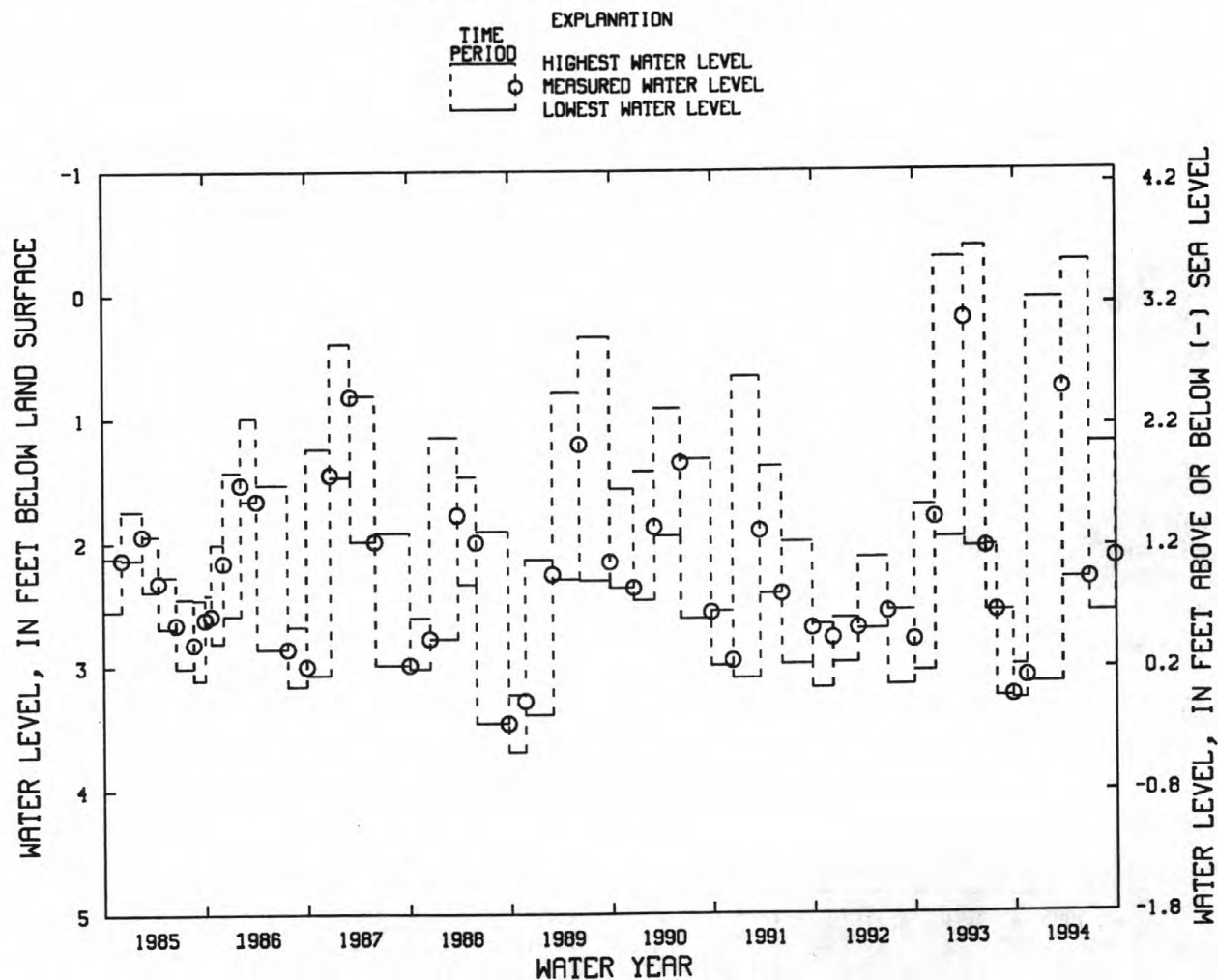
WATER LEVEL, IN FEET ABOVE (-) OR BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 24, 1993 TO NOV. 12, 1993	3.01	3.28	NOV. 12, 1993	3.10
NOV. 12, 1993 TO MAR. 23, 1994	0.04	3.15	MAR. 23, 1994	0.76
MAR. 23, 1994 TO JUNE 27, 1994	-0.26	2.31	JUNE 27, 1994	2.31
JUNE 27, 1994 TO SEPT. 28, 1994	1.21	2.58	SEPT. 28, 1994	2.14

NJ-WRD WELL NO. 33-0252



SALEM COUNTY

393348075275703. Local I.D., Salem 3 Obs. NJ-WRD Well Number, 33-0253.

LOCATION.--Lat 39°33'48", long 75°27'55", Hydrologic Unit 02040206, about 300 ft south of the intersection of Elm and Magnolia Streets, Salem City.

Owner: U.S. Geological Survey.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 340 ft, screened 335 to 340 ft.

INSTRUMENTATION.--Water-level extremes recorder.

DATUM.--Land surface is 3.00 ft above sea level.

Measuring point: Front edge of cutout in recorder housing, 2.30 ft above land surface.

PERIOD OF RECORD.--Nov. 1965 to current year. Records for 1965 to 1981 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.28 ft below land surface, Feb. 13, 1966; lowest, 30.82 ft below land surface, between June 27 and Sept. 28, 1994.

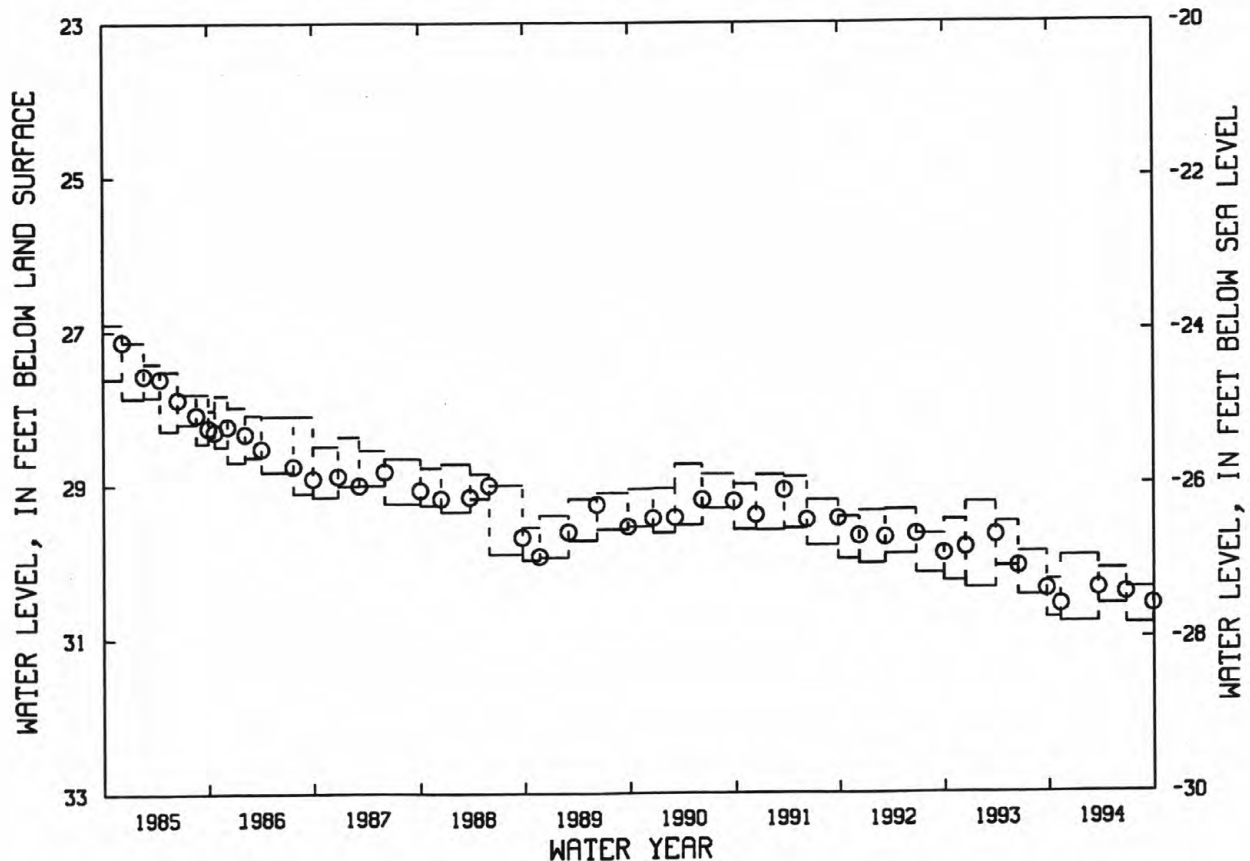
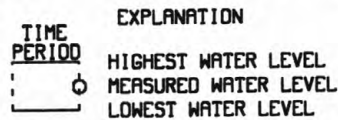
WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WATER-LEVEL EXTREMES

MEASURED WATER LEVELS

PERIOD	HIGHEST WATER LEVEL	LOWEST WATER LEVEL	DATE	WATER LEVEL
SEPT. 24, 1993 TO NOV. 12, 1993	30.25	30.74	NOV. 12, 1993	30.57
NOV. 12, 1993 TO MAR. 23, 1994	29.94	30.80	MAR. 23, 1994	30.36
MAR. 23, 1994 TO JUNE 27, 1994	30.11	30.57	JUNE 27, 1994	30.42
JUNE 27, 1994 TO SEPT. 28, 1994	30.36	30.82	SEPT. 28, 1994	30.57

NJ-WRD WELL NO. 33-0253



SALEM COUNTY

393534075175201. Local I.D., Horner Obs. NJ-WRD Well Number, 33-0020.

LOCATION.--Lat 39°35'34", Long 75°17'52", Hydrologic Unit 02040206, near the intersection of Rt. 581 (Commissioners Pike) and Rt. 672 (Yorketown Rd), Alloway Township.

Owner: Ephraim Horner.

AQUIFER.--Wenonah-Mount Laurel aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 283 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 76.75 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 1.81 ft above land surface.

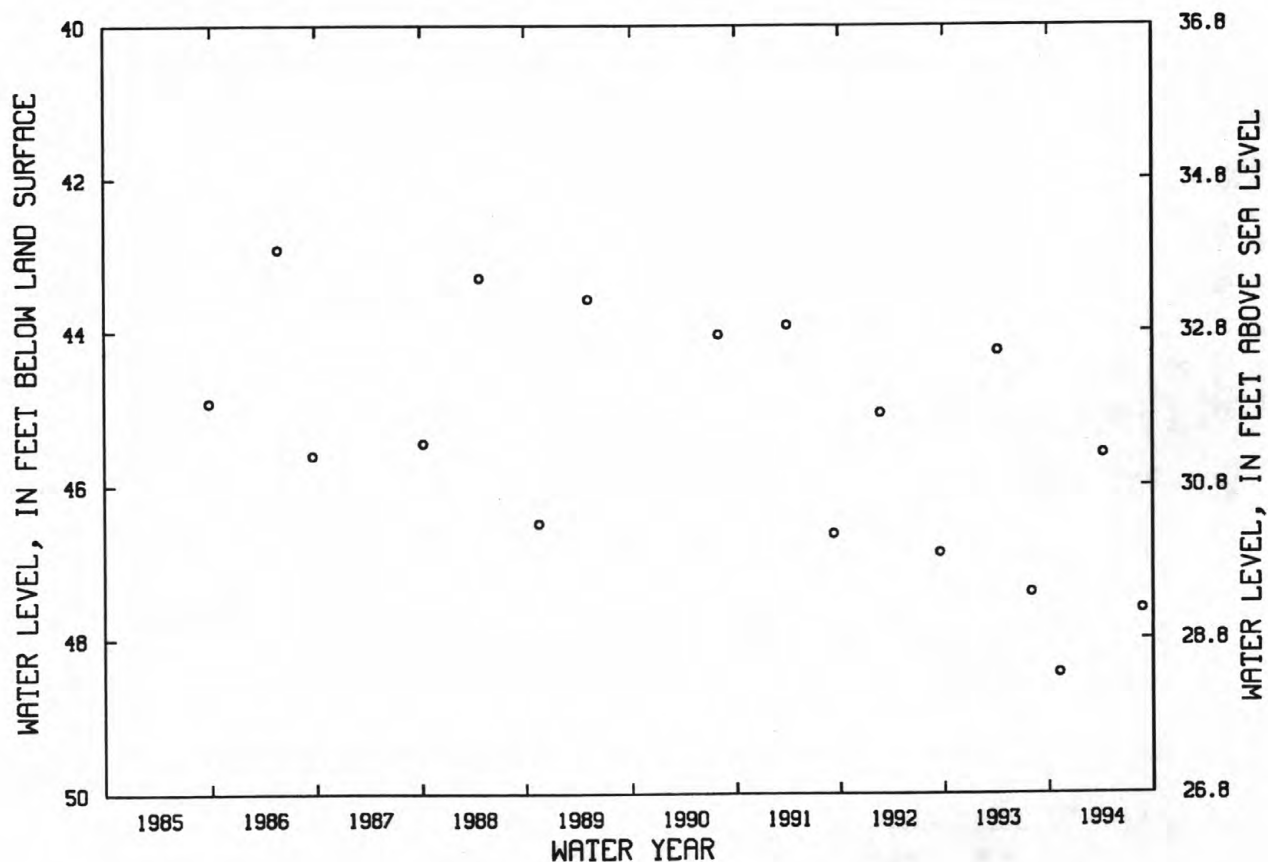
PERIOD OF RECORD.--June 1959 to current year. Records for 1959 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.32 ft below land surface, Apr. 25, 1961; lowest, 48.44 ft below land surface, Nov. 9, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 9	48.44	APR 12	45.58	AUG 25	47.61

NJ-WRD WELL NO. 33-0020



SALEM COUNTY

394037075191501. Local I.D., Point Airy Obs. NJ-WRD Well Number, 33-0187.

LOCATION.--Lat 39°40'37", long 75°19'14", Hydrologic Unit 02040206, near the intersection of Point Airy Rd. and Woodstown-Swedesboro Rd., 1 mi north of Woodstown Borough boundary, Pilesgrove Township.

Owner: U.S. Geological Survey.

AQUIFER.--Lower Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 672 ft, screened 664 to 672 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 72.97 ft above sea level.

Measuring point: Top of casing, 1.80 ft above land surface.

REMARKS.--Water-quality data for 1994 are available elsewhere in this report.

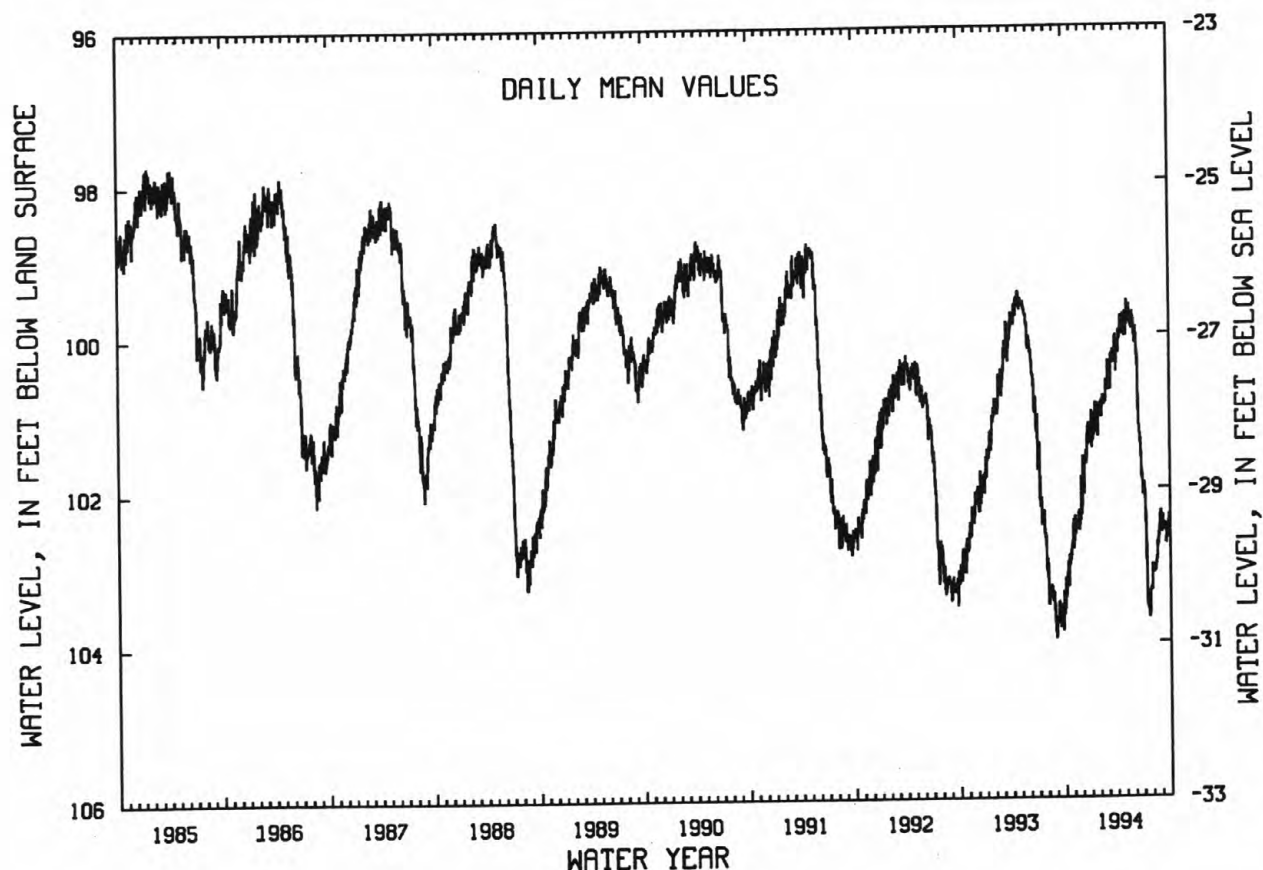
PERIOD OF RECORD.--Feb. 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 78.55 ft below land surface, Mar. 6, 1959; lowest, 104.08 ft below land surface, Aug. 31, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.25	102.45	101.58	101.46	100.89	100.56	100.09	100.03	100.03	101.94	103.00	102.35
10	103.17	102.51	101.89	101.38	101.08	100.50	99.96	99.68	100.21	102.47	103.06	102.50
15	103.28	102.46	101.52	101.13	100.83	100.26	99.97	99.69	100.89	103.50	102.92	---
20	103.01	102.29	101.45	101.09	100.89	100.26	99.91	99.88	101.29	103.61	102.75	102.63
25	102.75	102.47	101.16	101.04	100.73	100.29	99.74	99.88	101.61	103.33	102.52	102.45
EOM	102.41	102.25	101.40	100.97	100.73	100.50	99.86	99.82	101.88	103.15	102.43	102.55
MEAN	103.02	102.42	101.61	101.14	100.88	100.40	99.99	99.81	100.85	102.96	102.80	102.51
WTR YR 1994	MEAN 101.54 HIGH 99.54 MAY 8 LOW 103.78 JUL 22											

NJ-WRD WELL NO.33-0187



SALEM COUNTY

394317075261901. Local I.D., Penns Grove 14 Obs. NJ-WRD Well Number, 33-0348.

LOCATION.--Lat 39°43'17", long 75°26'19", Hydrologic Unit 02040206, about 110 ft south of the intersection of Pedricktown Rd. and Penns Grove-Auburn Rd., Carneys Point Township.

Owner: State of New Jersey - New Jersey Division of Water Policy.

AQUIFER.--Upper Potomac-Raritan-Magothy aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Driven water-table observation well, diameter 1.25 in., depth 18 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 25.40 ft above sea level.

Measuring point: Top of casing, 0.20 ft above land surface.

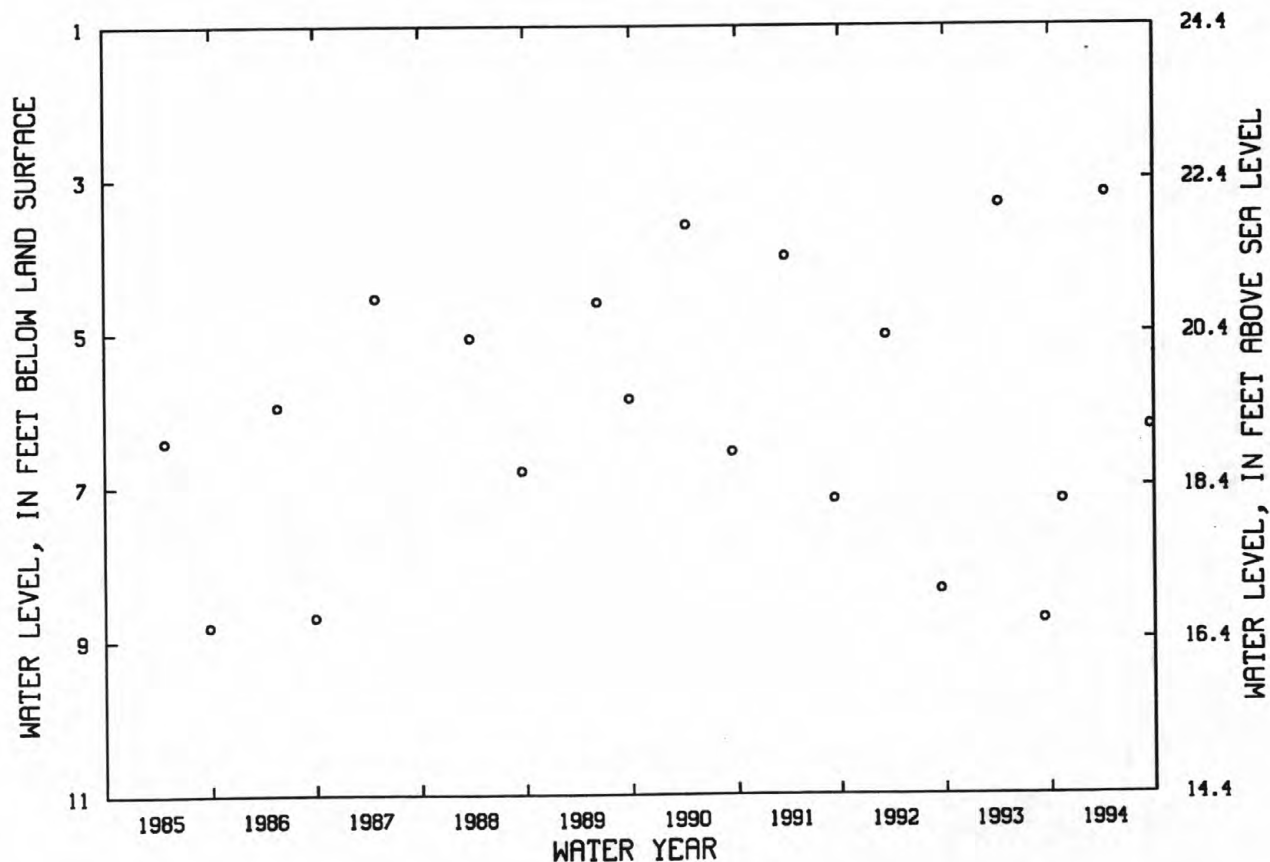
PERIOD OF RECORD.--June 1959 to Mar. 1975, Feb. 1977 to current year. Records for 1959 to 1975 and 1977 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.00 ft below land surface, Feb. 23, 1961; lowest, 8.90 ft below land surface, Nov. 2, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	7.18	APR 12	3.19	SEP 16	6.22

NJ-WRD WELL NO. 33-0348



SUSSEX COUNTY

410005074473801. Local I.D., Whittingham 19 Obs. NJ-WRD Well Number, 37-0203.

LOCATION.--Lat 41°00'13", long 74°47'26", Hydrologic Unit 02040105, in Whittingham Wildlife Refuge, County Rt. 611 (Springdale-Grendell Rd.), Fredon Township.

Owner: State of New Jersey.

AQUIFER.--Allentown Dolomite of Cambrian-Ordovician age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 500 ft, open hole 50 to 500 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements Apr. 1991 to July 1992.

DATUM.--Land surface is 648.5 ft above sea level.

Measuring point: Top of recorder shelf, 2.30 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

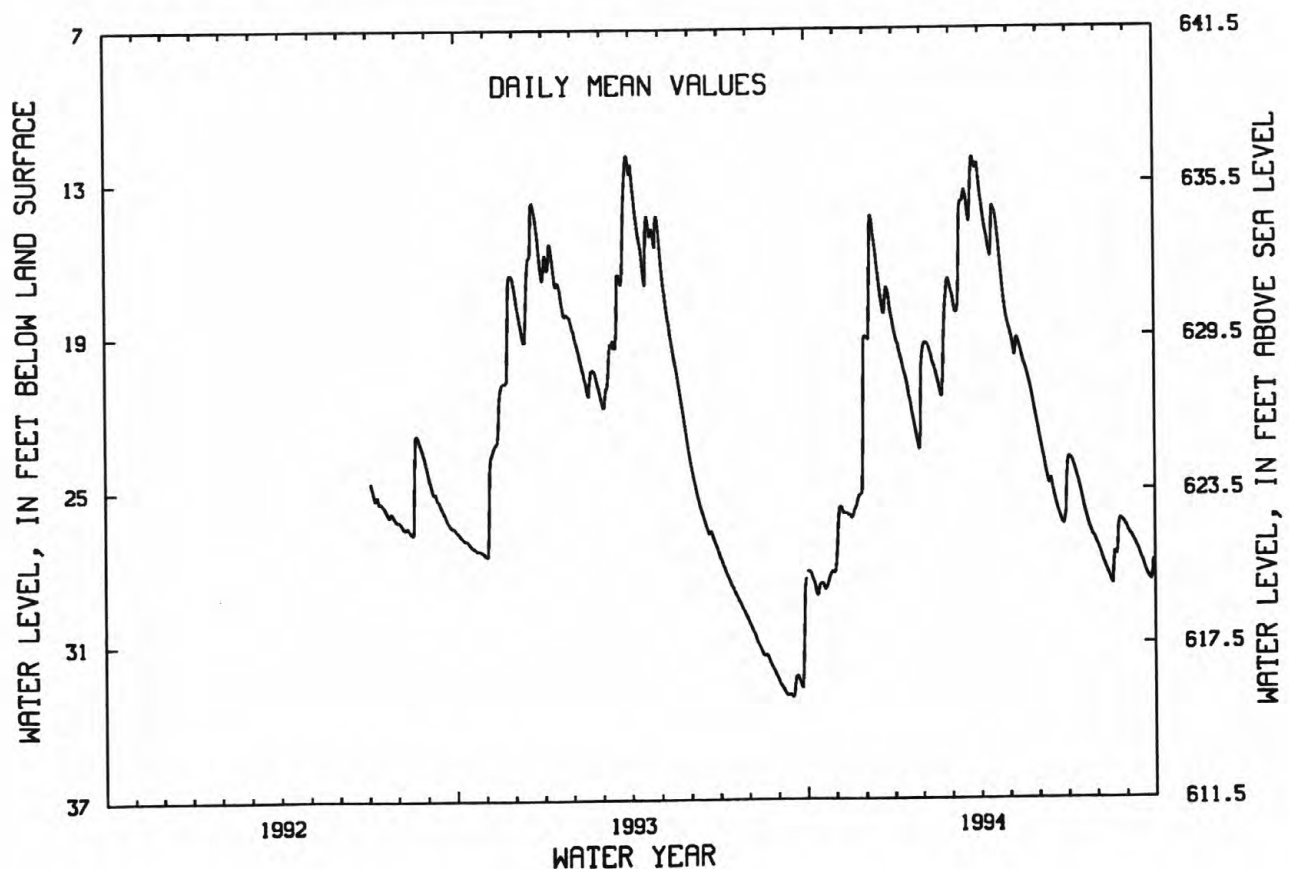
PERIOD OF RECORD.--Apr. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.74 ft below land surface, Mar. 28, 1993; lowest, 33.24 ft below land surface, Sep. 15, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.29	25.61	16.98	19.51	19.33	17.94	14.37	19.33	23.60	23.83	27.55	26.77
10	28.94	25.87	15.18	20.31	20.02	16.17	15.51	19.14	24.57	24.38	28.09	27.16
15	28.62	25.97	16.76	21.11	20.67	13.54	13.99	19.82	24.90	25.13	28.56	27.62
20	28.85	25.69	18.14	22.12	21.36	14.34	15.04	20.46	25.72	25.96	27.46	28.15
25	28.25	25.19	17.34	23.09	17.09	12.04	17.12	21.29	26.28	26.59	26.16	28.51
EOM	27.90	19.00	18.80	19.50	16.95	12.75	18.54	22.53	24.55	27.07	26.43	27.89
MEAN	28.49	25.23	17.15	20.99	19.49	14.62	15.45	20.24	24.90	25.32	27.41	27.58
WTR YR 1994	MEAN 22.25	HIGH 11.87	MAR 25	LOW 29.21	OCT 12							

NJ-WRD WELL NO.37-0203



SUSSEX COUNTY

410449074483301. Local I.D., Swartswood Park 5 Obs. NJ-WRD Well Number, 37-0205.

LOCATION.--Lat 41°04'49", long 74°48'37", Hydrologic Unit 02040105, in Swartswood State Park, about 700 ft south of the intersection of County Rt. 622 (Swartswood Rd.) and Chandler Rd., Hampton Township.

Owner: State of New Jersey.

AQUIFER.--Allentown Dolomite of Cambrian-Ordovician age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 148 ft, open hole 50 to 148 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements Apr. 1991 to July 1992.

DATUM.--Land surface is 514.1 ft above sea level.

Measuring point: Top of recorder shelf, 2.55 ft above land surface.

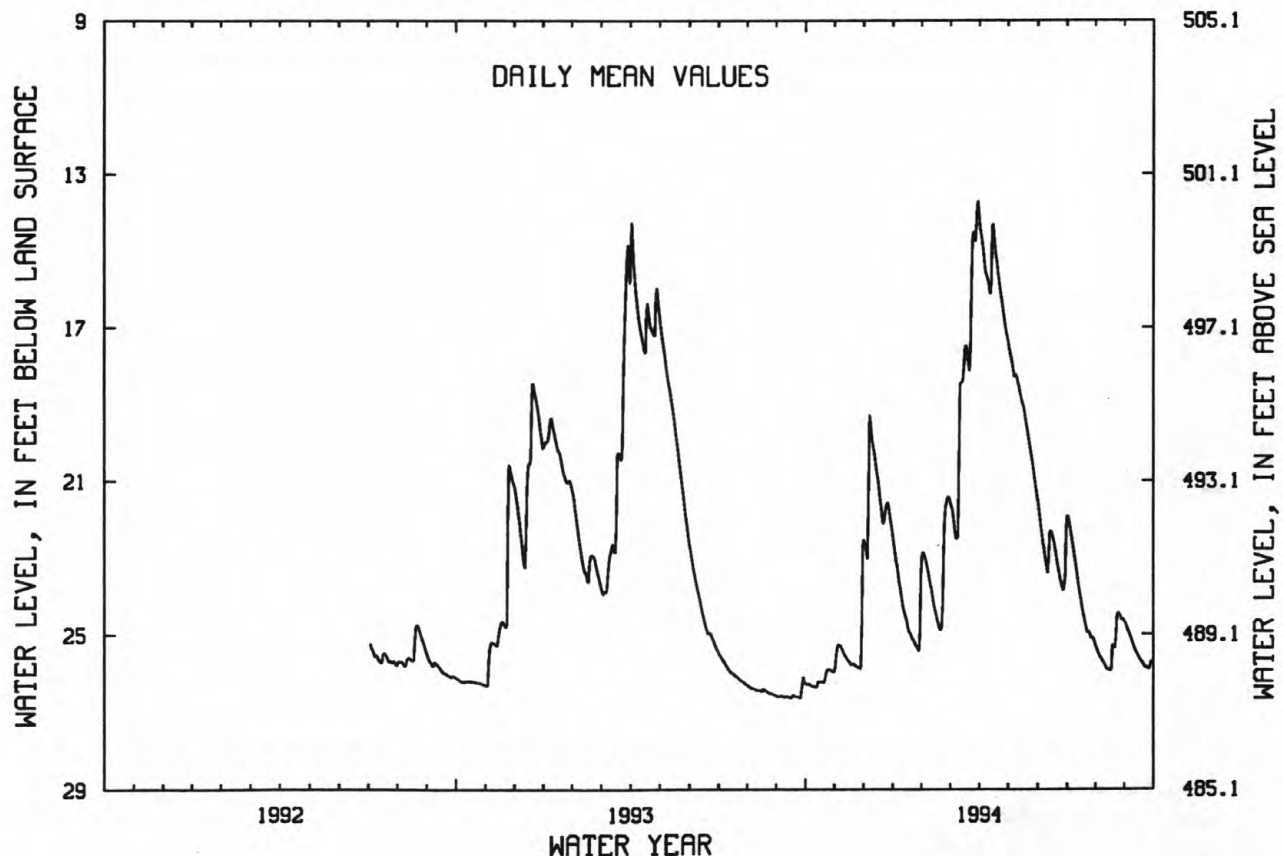
PERIOD OF RECORD.--Apr. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.64 ft below land surface, Mar. 30, 1994; lowest, 26.62 ft below land surface, Sept. 12, 15, 25, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.28	25.25	21.21	23.41	23.29	22.12	15.12	17.92	22.44	22.34	25.57	24.97
10	26.33	25.49	20.12	24.23	23.98	20.62	15.83	18.31	23.25	23.16	25.79	25.32
15	26.20	25.69	21.01	24.75	24.58	18.07	14.32	18.94	22.36	24.00	25.91	25.60
20	26.19	25.75	22.10	25.10	24.80	17.97	15.55	19.58	23.02	24.69	25.32	25.78
25	25.88	25.84	21.56	25.32	21.55	14.51	16.49	20.39	23.67	24.97	24.46	25.88
EOM	25.84	22.52	22.53	22.86	21.46	14.03	17.26	21.45	22.27	25.28	24.68	25.73
MEAN	26.14	25.37	21.42	24.31	23.44	18.25	15.65	19.21	22.87	23.89	25.31	25.47
WTR YR 1994 MEAN 22.61 HIGH 13.64 MAR 30 LOW 26.34 OCT 10-12												

NJ-WRD WELL NO.37-0205



SUSSEX COUNTY

410804074424401. Local I.D., Fairgrounds 7 Obs. NJ-WRD Well Number, 37-0206.

LOCATION.--Lat 41°08'04", long 74°42'44", Hydrologic Unit 02020007, at Sussex County Fairgrounds, Frankford Township.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 84 ft, screened 64 to 84 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements Apr. 1991 to July 1992.

DATUM.--Land surface is 533.5 ft above sea level.

Measuring point: Top of recorder shelf, 3.90 ft above land surface.

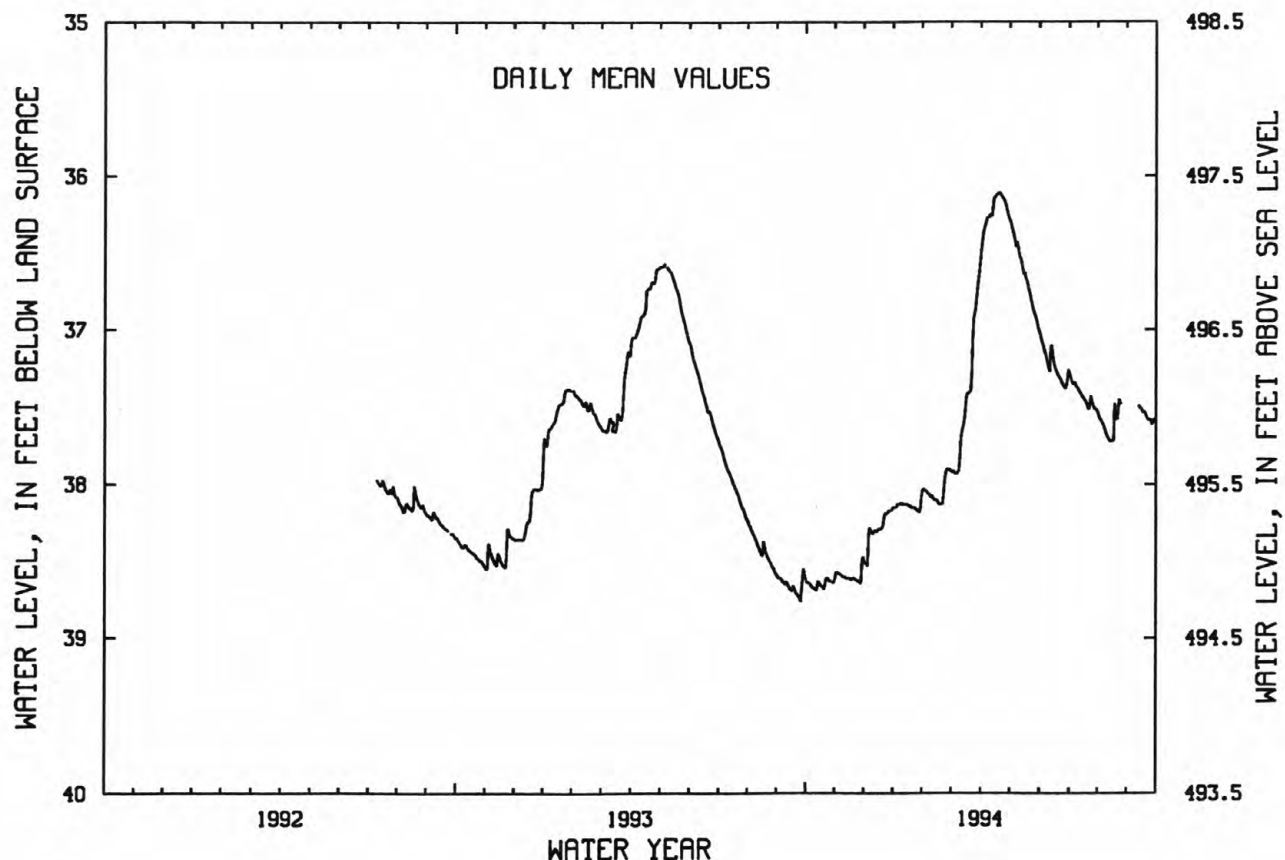
PERIOD OF RECORD.--Apr. 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.11 ft below land surface, Apr. 17, 19-20, 1994; lowest, 38.76 ft below land surface, Sept. 25, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.65	38.58	38.33	38.13	38.06	37.93	36.32	36.39	37.13	37.35	37.60	---
10	38.68	38.60	38.32	38.13	38.09	37.83	36.25	36.50	37.25	37.37	37.69	---
15	38.65	38.61	38.29	38.13	38.11	37.55	36.14	36.64	37.21	37.43	37.72	37.51
20	38.66	38.61	38.27	38.15	38.13	37.40	36.11	36.73	37.30	37.49	37.57	37.56
25	38.63	38.63	38.18	38.17	37.90	36.89	36.16	36.87	37.36	37.46	37.48	37.59
EOM	38.60	38.49	38.15	38.03	37.91	36.55	36.28	37.01	37.26	37.53	---	37.60
MEAN	38.65	38.59	38.28	38.13	38.04	37.43	36.22	36.64	37.23	37.43	37.61	37.56
WTR YR 1994	MEAN 37.65 HIGH 36.11 APR 17,19-20 LOW 38.69 OCT 10-12											

NJ-WRD WELL NO.37-0206



SUSSEX COUNTY

410914074540401. Local I.D., Taylor Obs. NJ-WRD Well Number, 37-0202.

LOCATION.--Lat 41°09'14", long 74°53'04", Hydrologic Unit 02040104, near Walpack Center, Delaware Water Gap National Recreation Area, Walpack Township.

Owner: National Park Service.

AQUIFER.--Bossardville Limestone of Silurian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 95 ft, open hole 42 to 95 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 480 ft above sea level, from topographic map.

Measuring point: Top of recorder shelf, 3.00 ft above land surface.

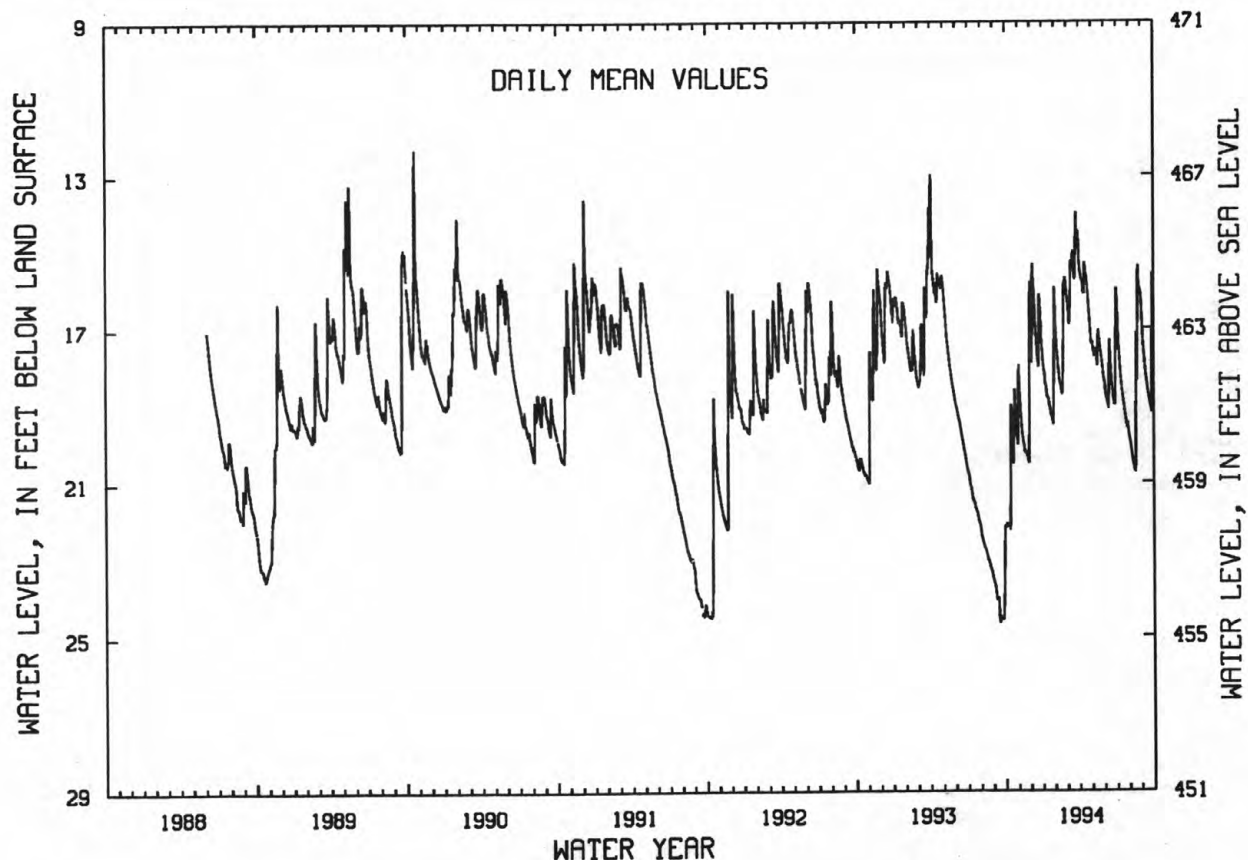
PERIOD OF RECORD.--June 1988 to current year. Records for 1988 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.28 ft below land surface, Oct. 20, 1989; lowest, 24.66 ft below land surface, Sept. 16-17, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.95	15.47	18.25	17.64	16.58	15.64	17.56	18.78	17.27	20.03	17.46
10	22.14	19.73	16.23	18.72	18.25	15.56	15.94	17.58	19.01	18.13	20.40	18.12
15	19.80	20.06	17.30	18.90	18.54	15.16	15.39	17.96	17.72	18.67	20.69	18.56
20	20.33	20.19	18.00	19.19	17.98	15.68	15.84	17.37	18.55	19.10	18.36	18.88
25	19.35	20.40	16.55	19.39	15.66	13.98	16.62	17.81	18.91	19.48	15.86	19.12
EOM	19.34	16.20	17.80	16.58	16.03	14.91	17.41	18.35	15.96	19.74	16.32	15.97
MEAN	20.28	19.40	16.92	18.52	17.45	15.46	16.01	17.66	18.37	18.50	18.57	17.93
WTR YR 1994	MEAN 17.89	HIGH 13.85	MAR 24-25	LOW 22.34	OCT 12							

NJ-WRD WELL NO.37-0202



SUSSEX COUNTY

410928074522801. Local I.D., Walpack Twp. 4 Obs. NJ-WRD Well Number, 37-0207.

LOCATION.--Lat 41°09'28", long 74°52'28", Hydrologic Unit 02040104, off Main St., about 800 ft east of Flat Brook, Walpack Center, Walpack Township.

Owner: State of New Jersey.

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 55 ft, screened 46 to 55 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch. Periodic manual measurements Apr. 1991 to July 1992.

DATUM.--Land surface is 425.3 ft above sea level.

Measuring point: Top of recorder shelf, 3.40 ft above land surface.

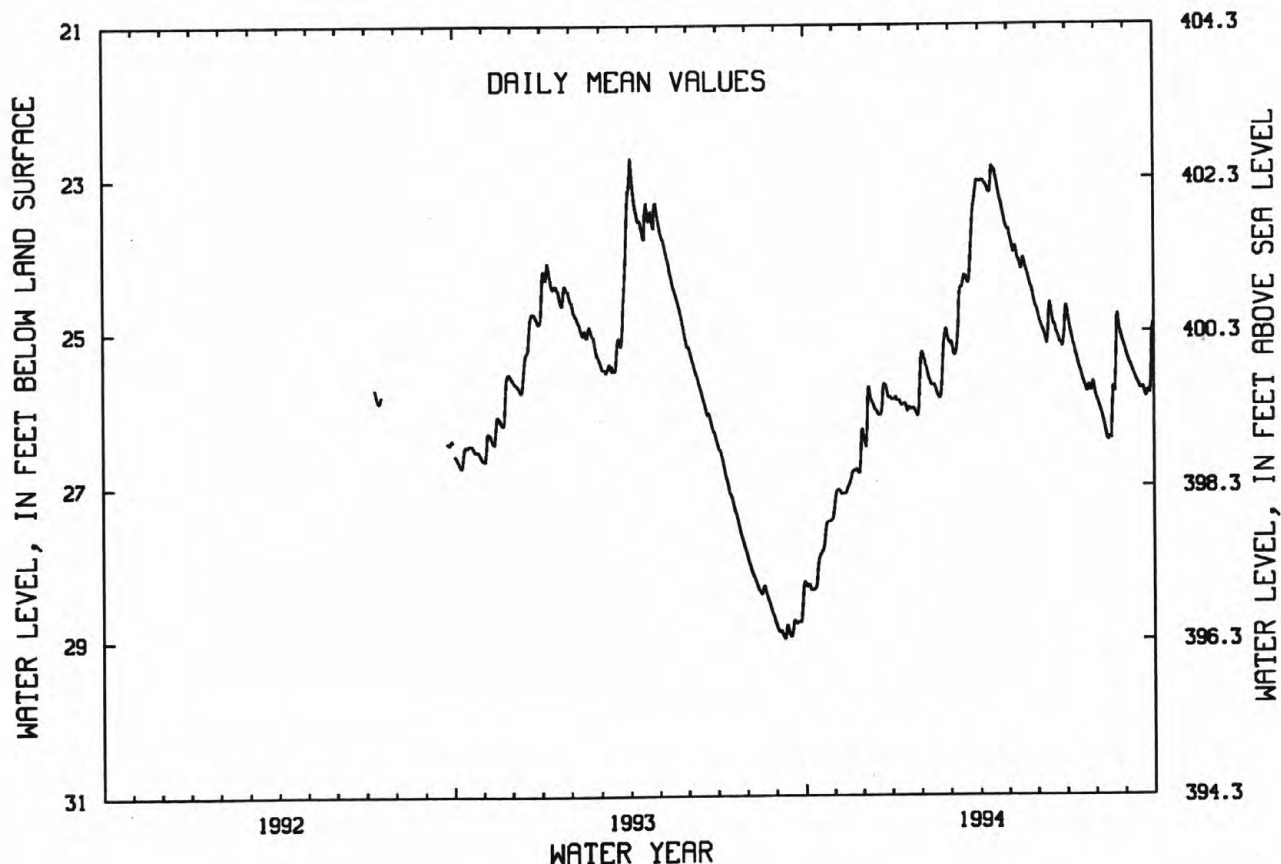
PERIOD OF RECORD.--April 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.69 ft below land surface, Apr. 2, 1993; lowest, 28.98 ft below land surface, Sept. 9-10, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.29	27.03	26.25	25.88	25.45	25.25	23.03	23.85	24.92	24.98	25.98	25.41
10	28.33	27.08	25.89	25.94	25.68	24.93	23.16	23.96	25.11	25.24	26.22	25.56
15	27.91	26.98	26.01	25.97	25.74	24.35	22.86	24.19	24.69	25.48	26.36	25.71
20	27.76	26.79	26.06	25.99	25.82	24.36	23.09	24.18	24.96	25.68	25.71	25.78
25	27.45	26.79	25.69	26.04	24.96	23.47	23.39	24.41	25.14	25.70	24.88	25.77
EOM	27.27	26.24	25.87	25.25	25.10	23.04	23.66	24.69	24.71	25.78	25.21	24.99
MEAN	27.89	26.90	25.96	25.89	25.49	24.32	23.16	24.14	24.95	25.41	25.75	25.55
WTR YR 1994	MEAN 25.45	HIGH 22.79	APR 14	LOW 28.34	OCT 7-9							

NJ-WRD WELL NO.37-0207



UNION COUNTY

404027074164401. Local I.D., White Lab 3 Obs. NJ-WRD Well Number, 39-0102.

LOCATION.--Lat 40°40'27", long 74°16'44", Hydrologic Unit 02030104, at the Schering facility, about 0.3 mi east of the intersection of Galloping Hill Rd. and the Garden State Parkway, Kenilworth Borough.

Owner: Schering Corporation.

AQUIFER.--Brunswick Group sedimentary rocks.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 251 ft, open hole 49 to 251 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 85.22 ft above sea level.

Measuring point: Top of well shelter shelf, 0.00 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

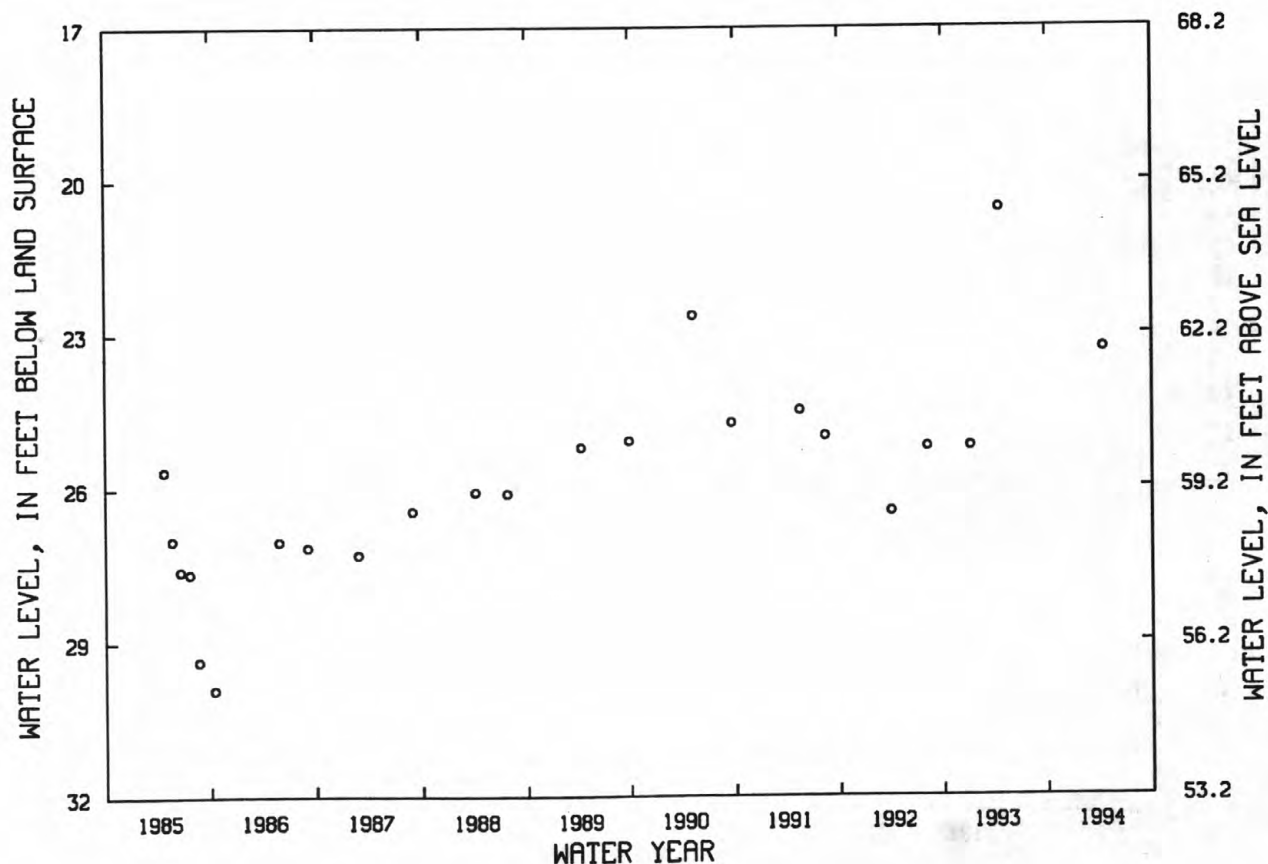
PERIOD OF RECORD.--Sept. 1952 to current year. Records for 1985 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.51 ft below land surface, Apr. 17, 1961; lowest, 30.70 ft below land surface, Oct. 7, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL
APR 15	23.29

NJ-WRD WELL NO. 39-0102



UNION COUNTY

404044074162101. Local I.D., White Lab 4 Obs. NJ-WRD Well Number, 39-0115.

LOCATION.--Lat 40°40'43", long 74°16'18", Hydrologic Unit 02030104, at the Schering facility, about 0.3 mi east of the intersection of Galloping Hill Rd. and the Garden State Parkway, Kenilworth Borough.

Owner: Schering Corporation.

AQUIFER.--Brunswick Group sedimentary rocks.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 251 ft, open hole 47 to 251 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 96.20 ft above sea level.

Measuring point: Top of well shelter shelf, 0.40 ft above land surface.

REMARKS.--Water level is affected by nearby pumping.

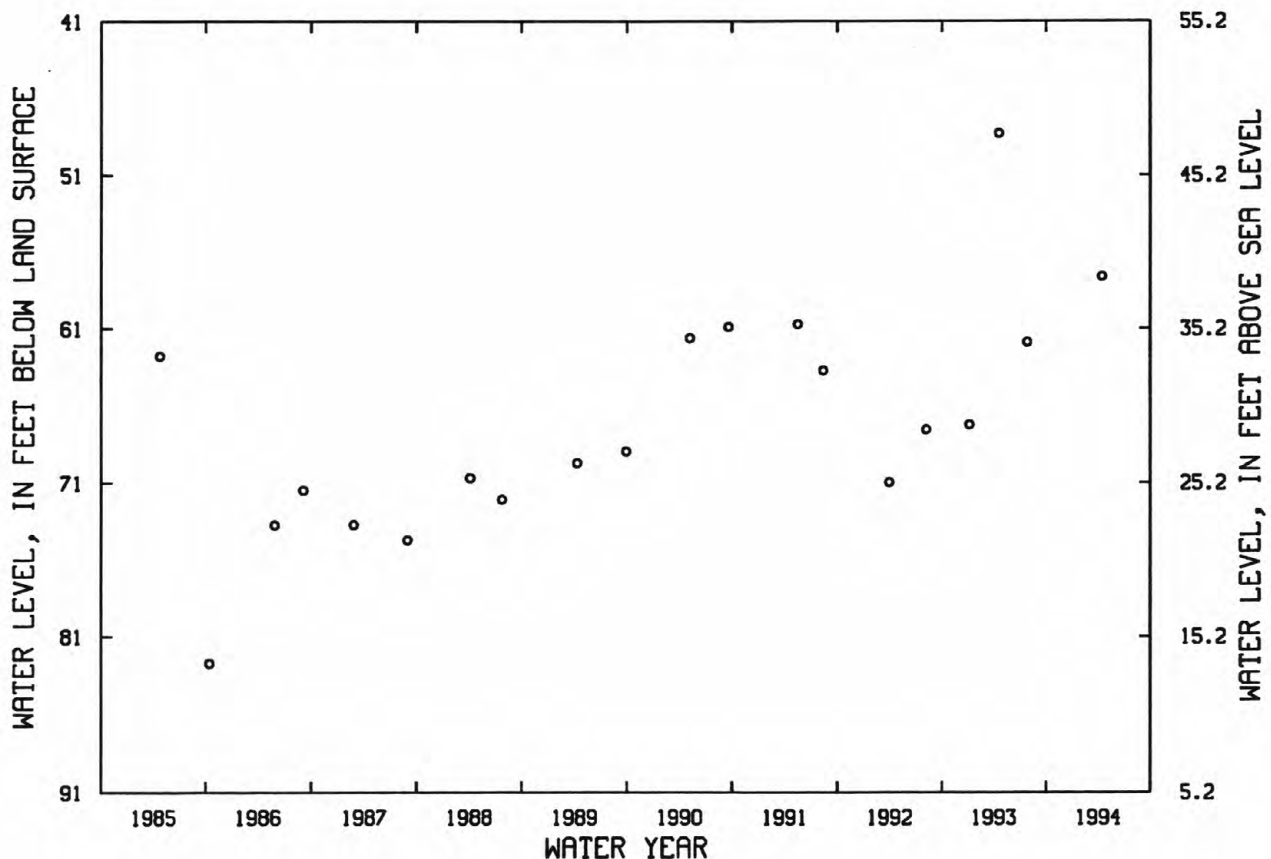
PERIOD OF RECORD.--Apr. 1952 to current year. Records for 1952 to 1989 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.96 ft below land surface, Mar. 28, 1960; lowest, 88.25 ft below land surface, Mar. 14, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL
APR 15	57.62

NJ-WRD WELL NO. 39-0115



UNION COUNTY

404106074171901. Local I.D., Union County Park Obs. NJ-WRD Well Number, 39-0119.

LOCATION.--Lat 40°41'06", long 74°17'19", Hydrologic Unit 02030104, at Galloping Hill Golf Course, Kenilworth Borough.

Owner: Union County Park Commission.

AQUIFER.--Passaic Formation of Triassic-Jurassic age.

WELL CHARACTERISTICS.--Drilled artesian observation well, depth 290 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Land surface is 69.00 ft above sea level.

Measuring point: Top of recorder shelf, 2.30 ft above land surface.

REMARKS.--Water level is affected by nearby pumping of irrigation well.

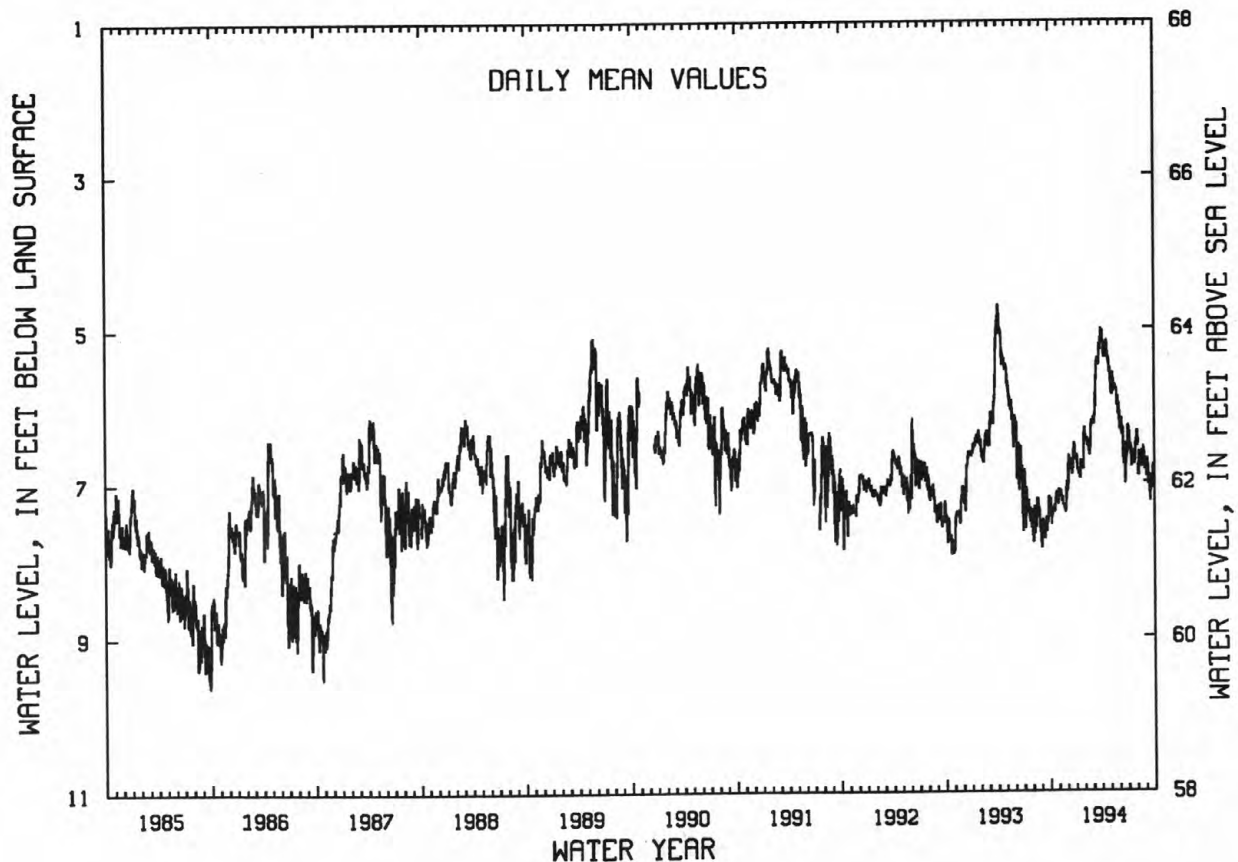
PERIOD OF RECORD.--June 1943 to current year. Records for 1975 to 1983 are unpublished and are available in files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.06 ft below land surface, June 2, 1952; lowest, 16.05 ft below land surface, June 29, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.30	7.16	6.77	6.76	6.44	6.25	5.18	5.75	6.21	6.43	6.92	6.69
10	7.42	7.16	6.73	6.87	6.53	5.90	5.35	5.64	6.27	6.51	6.68	7.01
15	7.34	7.19	6.81	6.91	6.56	5.43	5.23	5.73	6.57	6.72	6.59	7.25
20	7.37	7.31	6.83	6.76	6.53	5.49	5.30	5.79	6.50	6.64	6.80	6.98
25	7.13	7.40	6.49	6.80	6.23	5.21	5.40	5.90	6.55	6.72	6.65	6.81
EOM	7.13	7.06	6.72	6.29	6.22	5.03	5.57	5.98	6.29	6.36	6.84	6.86
MEAN	7.31	7.22	6.76	6.75	6.43	5.61	5.31	5.81	6.46	6.56	6.69	6.92
WTR YR 1994	MEAN 6.49 HIGH 4.99 MAR 30 LOW 8.20 OCT 7											

NJ-WRD WELL NO.39-0119



UNION COUNTY

404111074121701. Local I.D., Schweitzer Obs. NJ-WRD Well Number, 39-0058.

LOCATION.--Lat 40°41'13", long 74°12'16", Hydrologic Unit 02030104, on the east side of Newark Ave., about 0.5 mi north of the intersection with North Ave, Elizabeth.

Owner: Magruder Color Company.

AQUIFER.--Brunswick Group sedimentary rocks.

WELL CHARACTERISTICS.--Drilled observation well, depth 660 ft.

INSTRUMENTATION.--None: periodic measurements with chalked steel tape.

DATUM.--Land surface is 28.23 ft above sea level.

Measuring point: Top of base of aluminum locking cap, 1.94 ft above land surface.

PERIOD OF RECORD.--Apr. 1956 to current year. Records for 1956 to 1982 and 1985 to 1989 are unpublished and are available if files of the New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.07 ft below land surface, between Apr. 2 and July 13, 1984; lowest, 26.83 ft below land surface, Oct. 31, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEASURED WATER LEVELS

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22	13.73	AUG 16	14.92

NJ-WRD WELL NO. 39-0058

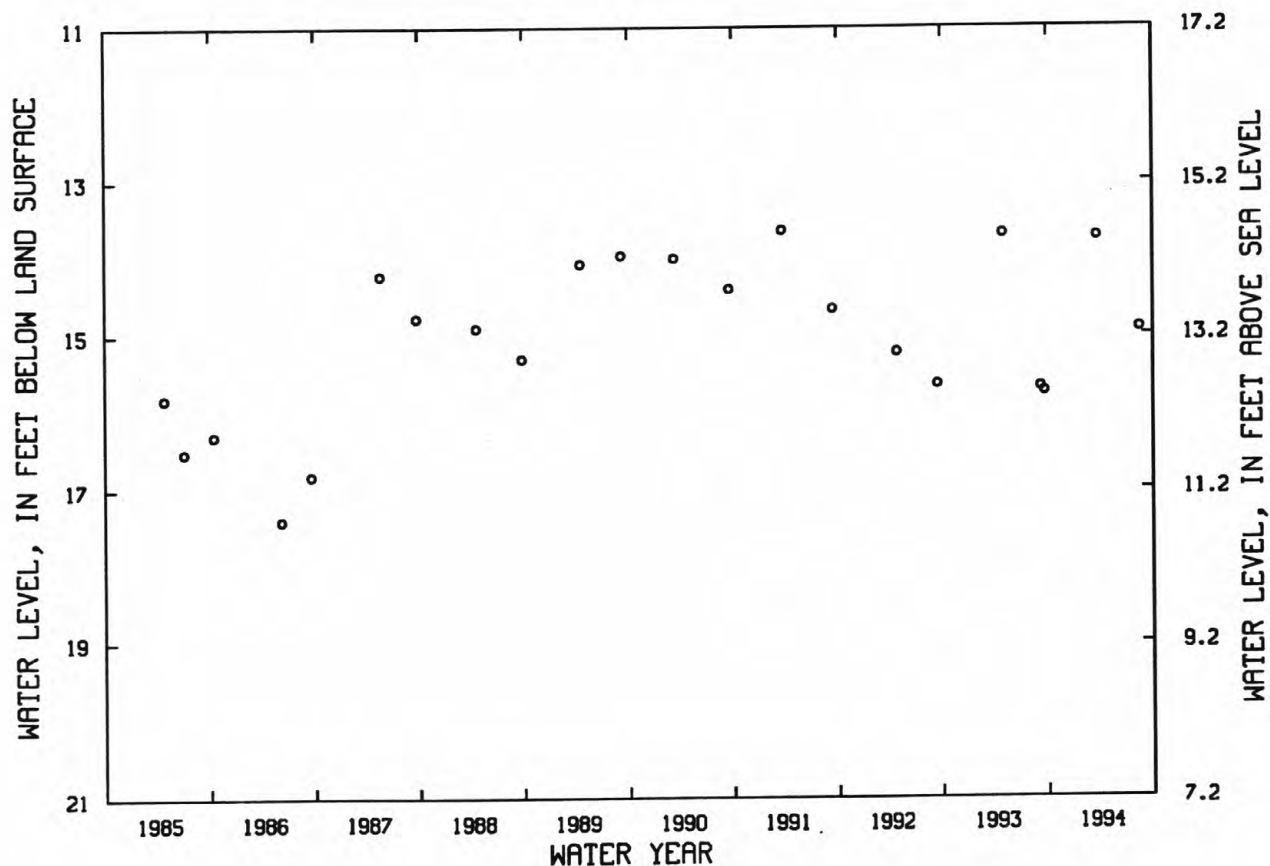


Table 1.--Discontinued observation wells
for which ground-water-level data are available.

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	PERIOD OF RECORD	AQUIFER UNIT
01-366	LONGPORT WD	LONGPORT OBS	391821	743208	1924-84	122KRKDL
01-387	RALPH RAMBERG - AMATOL	AMATOL 6 OBS	393557	744114	1961-91	121CKKD
01-496	US GEOLOGICAL SURVEY	USGS 4 H 2	394029	743957	1963-86	121CKKD
01-542	US GEOLOGICAL SURVEY	WHARTON 2G	394028	744000	1960-86	121CKKD
01-545	US GEOLOGICAL SURVEY	WHARTON 11	394058	744022	1957-86	121CKKD
01-704	US GEOLOGICAL SURVEY	EGG HARBOR HS	392343	743733	1985-85	122KRKDL
01-706	US GEOLOGICAL SURVEY	STKTN ST COLL	392933	743130	1985-88	122KRKDL
01-713	US GEOLOGICAL SURVEY	MIZPAH DEEP	392902	745051	1985-86	124PNPN
03-286	US GEOLOGICAL SURVEY	WALLINGTON 2 OBS	405053	740604	1989-92	227PSSC
03-287	US GEOLOGICAL SURVEY	WALLINGTON 1 OBS	405106	740557	1989-92	227PSSC
03-288	US GEOLOGICAL SURVEY	WALLINGTON 3 OBS	405107	740609	1989-92	227PSSC
05-029	US GEOLOGICAL SURVEY	OSWEGO LAKE 1	394208	742645	1962-86	121CKKD
05-030	US GEOLOGICAL SURVEY	OSWEGO LAKE 2	394208	742645	1962-86	121CKKD
05-648	WILLINGBORO MUA	WMUA 3-OBS	400103	745409	1966-86	211MRPAL
05-690	US GEOLOGICAL SURVEY	LEBANON SF 2	395211	743103	1964-86	121CKKD
05-836	US GEOLOGICAL SURVEY	QWO-3B	395245	742952	1984-89	121CKKD
05-841	US GEOLOGICAL SURVEY	QWC-3A	395301	742953	1984-87	121CKKD
05-842	US GEOLOGICAL SURVEY	QWC-3B	395301	742953	1985-88	121CKKD
05-851	US GEOLOGICAL SURVEY	QWH-3B	395217	742937	1985-88	121CKKD
07-030	SO JRSY PORT CM	NY SHIP 5A	395447	750711	1950-86	211MRPAU
07-201	AMSPEC CHEMICAL	AMSPEC 1	395318	750755	1984-88	211MRPAL
07-204	AMSPEC CHEMICAL	AMSPEC 4	395322	750757	1984-88	211MRPAL
07-221	US GEOLOGICAL SURVEY	COAST GUARD 1	395356	750738	1983-88	211MRPAL
07-322	NJ/AMERICAN WATER CO	OAKLYN TEST	395359	750445	1963-86	211MRPAU
07-354	GENERAL FOODS	PETTY IS OBS	395811	750556	1950-92	211MRPAL
07-485	WINSLOW WC	OBS 2-1971	394235	745728	1972-79	121CKKD
07-493	WINSLOW WC	OBS 3-1971	394311	745707	1972-79	121CKKD
07-498	WINSLOW WC	OBS 4-1971	394332	750003	1972-79	121CKKD
07-573	US GEOLOGICAL SURVEY	COAST GUARD 2	395355	750738	1983-88	211MRPAU
07-574	US GEOLOGICAL SURVEY	COAST GUARD 3	395355	750738	1984-88	111HPPM
09-011	CAPE MAY CITY WD	CMCWD 1 OBS	385612	745457	1967-86	121CNSY
09-071	WILDWOOD WATER DEPARTMENT	RIO GRANDE 23 OBS	390138	745348	1990-92	122KRKDU
09-079	LEE HALLER	NUMMY ISLAND 2 OBS	390210	744730	1990-92	122KRKDL
09-095	US GEOLOGICAL SURVEY	BDWLL DCH 30ES	390527	745028	1972-75	112ESRNS
09-097	US GEOLOGICAL SURVEY	BDWLL DCH 31ES	390527	745024	1968-84	112ESRNS
09-098	US GEOLOGICAL SURVEY	BDWLL DCH 31HB	390527	745024	1968-84	112HLBC
09-185	US GEOLOGICAL SURVEY	MACNAMARA W A	391621	744355	1985-86	122KRKDL
09-292	US GEOLOGICAL SURVEY	WETLANDS 1 OBS	390337	744623	1988-92	121CNSY
09-293	US GEOLOGICAL SURVEY	WETLANDS 2 OBS	399337	744623	1988-92	112ESRNS
09-294	US GEOLOGICAL SURVEY	WETLANDS 3 OBS	390337	744623	1988-92	112ESRNS
09-295	US GEOLOGICAL SURVEY	WETLANDS 4 OBS	390337	744623	1988-92	112HLBC
09-304	US GEOLOGICAL SURVEY	AIRPORT RIO GRANDE OBS	390002	745410	1990-92	122KRKDU
11-141	MILLVILLE WD	ORANGE ST	392219	750113	1962-86	121CKKD
11-161	CUMBERLAND COUNTY	FAIR GROUNDS 1	392526	750643	1972-86	121CKKD
11-162	CUMBERLAND COUNTY	FAIR GROUNDS 2	392526	750643	1972-86	121CKKD
11-188	CUMBERLAND COUNTY	BOSTWICK LK 1	393141	751601	1972-86	121CKKD
11-692	US GEOLOGICAL SURVEY	RUTGERS R&D 1 SHALLOW OBS	393104	751222	1991-92	121CKKD
11-693	US GEOLOGICAL SURVEY	RUTGERS R&D 2 MED OBS	393104	751222	1991-92	121CKKD
11-694	US GEOLOGICAL SURVEY	RUTGERS R&D 3 DEEP OBS	393104	751222	1991-92	121CKKD
13-017	WALSH BROS INC	BALLENTINE 8 OBS	404401	740834	1949-93	227PSSC

Data available in the files of the New Jersey District Office.

Aquifer unit:

- 111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene
- 112HLBC - Holly Beach water-bearing zone
- 112ESRNS - Cape May Formation, estuarine sand facies
- 121CNSY - Cohansey Sand
- 121CKKD - Kirkwood-Cohansey aquifer system
- 122KRKDU - Rio Grande water-bearing zone of the Kirkwood Formation
- 122KRKDL - Atlantic City 800-foot sand of the Kirkwood Formation
- 124PNPN - Piney Point Formation
- 211MRPAU - Upper Potomac-Raritan-Magothy aquifer
- 211MRPAL - Lower Potomac-Raritan-Magothy aquifer
- 227PSSC - Passaic Formation

Table 1.--Discontinued observation wells

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for which ground-water-level data are available--Continued.

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	PERIOD OF RECORD	AQUIFER UNIT
15-097	HERCULES CHEM	GIBBSTOWN TH 8/TW8	395000	751636	1953-89	211MRPAM
15-279	HUNTSMAN POLYPROPYLENE CORP	SHELL OBS 7	394857	751250	1962-86	211MRPAM
15-540	US EPA	EPA 108	394800	751936	1985-88	211MRPAM
15-564	US EPA-GAVENTA	S-9	394802	751933	1985-88	211MRPAU
15-615	US GEOLOGICAL SURVEY	SHIVELER LOWER	394637	751916	1985-88	211MRPAL
15-616	US GEOLOGICAL SURVEY	SHIVELER MIDDLE	394637	751916	1985-88	211MRPAM
15-617	US GEOLOGICAL SURVEY	SHIVELER UPPER	394637	751916	1985-88	211MRPAU
15-618	US GEOLOGICAL SURVEY	GAVENTA DEEP	394804	751933	1985-88	211MRPAL
15-620	US GEOLOGICAL SURVEY	GAVENTA MIDDLE 1	394804	751933	1985-88	211MRPAM
15-139	PURELAND WATER CO	TEST WELL 3	394608	752135	1985-86	211MRPAL
15-140	PURELAND WATER CO	TEST WELL 4	394608	752135	1985-86	211MRPAM
15-379	MANTUA TWP MUA	MTMUA 6	394601	751005	1988	211MRPAU
15-770	US GEOLOGICAL SURVEY	NATIONAL PARK #1-PW-L	395202	751115	1987-88	211MRPAL
15-771	US GEOLOGICAL SURVEY	NATIONAL PARK #2-PW-M	395202	751115	1987-88	211MRPAM
15-1052	US GEOLOGICAL SURVEY	USGS WTMUA OBS-2 MED	394314	750145	1991-92	121CKKD
15-1053	US GEOLOGICAL SURVEY	USGS WTMUA OBS-3 DEEP	394314	750145	1991-92	121CKKD
15-1055	US GEOLOGICAL SURVEY	USGS GSC OBS-2 MED	394221	750722	1991-92	121CKKD
15-1056	US GEOLOGICAL SURVEY	USGS GSC OBS-3 DEEP	394221	750722	1991-92	121CKKD
15-1058	US GEOLOGICAL SURVEY	USGS TPE OBS-2 MED-DEEP	394242	750330	1991-92	121CKKD
15-1059	US GEOLOGICAL SURVEY	USGS TPE OBS-3 DEEP	394242	750330	1991-92	121CKKD
15-1063	US GEOLOGICAL SURVEY	USGS TPE OBS-4 MED-SHALL	394242	750330	1991-92	121CKKD
19-249	US GEOLOGICAL SURVEY	HUNTER RD TB 3 OBS	402141	745358	1989-92	227PSSC
19-250	US GEOLOGICAL SURVEY	WEST AMWELL FIRE TB 2 OBS	402146	745351	1989-92	227PSSC
21-358	US GEOLOGICAL SURVEY	PRINCETON 1-BRICK RD OBS	402023	743919	1989-90	231SCKN
21-359	US GEOLOGICAL SURVEY	PRINCETON 2-CHILL PL OBS	402032	743925	1989-92	231SCKN
23-159	DUHERNAL WC	DUHERNAL OBS 5	402353	742152	1939-86	2110DBG
23-180	DUHERNAL WC	DUHERNAL OBS 1	402438	742129	1938-86	2110DBG
23-181	PERTH AMBOY WD	RUNYON 123	402442	742136	1955-86	2110DBG
23-182	BOWNE, CLYDE	BROWNTOWN	402449	741819	1932-87	2110DBG
23-189	PERTH AMBOY WD	RUNYON R50	402525	741954	1972-75	2110DBG
23-265	CHEVRON OIL CO	11	403211	741612	1950-86	211FRNG
23-270	AMER CYANAMID	TEST 2	403231	741616	1950-86	211FRNG
23-306	PHELPS DODGE CO	PHELPS DODGE 3	402147	742847	1969-87	211FRNG
23-343	STATE OF NJ - NJ WATER POLICY	SUN BISCUIT 5	402553	742033	1972-75	2110DBG
23-404	SAYREVILLE WD	MORGAN OBS 1	402745	741645	1973-80	211FRNG
23-433	STATE OF NJ - NJ WATER POLICY	SO RIVER 4	402555	742133	1968-86	2110DBG
23-516	NOVAK	HULSART	402123	741849	1936-84	211EGLS
23-796	PRINCETON UNIVERSITY	TEST WELL 5 OBS	402058	743559	1986-92	231SCKN
23-800	PRINCETON UNIVERSITY	TEST WELL 9 OBS	402058	743559	1986-92	231SCKN
23-1056	MIDDLESEX CO. UTIL. AUTHORITY	MONITORING #3	402743	742216	1987	211FRNG
23-1058	US GEOLOGICAL SURVEY	HESS BROS #1	402704	742139	1987-88	211FRNG
23-1077	US GEOLOGICAL SURVEY	JCP&L-SAY	402831	742120	1987-88	211FRNG
25-216	MANALAPAN TWP WD	MANALAPAN 1	401518	742230	1971-84	211EGLS
25-350	NJ/AMERICAN WATER CO	WHITESVILLE 2	401323	740156	1973-75	2110DBG
25-716	HERBERT SAND COMPANY	HERBERT SAND MW-3 OBS	401044	741418	1992-93	121CKKD
25-717	US GEOLOGICAL SURVEY	TURKEY SWAMP 1 OBS	401046	742002	1992-93	125VNCN
27-095	US ARMY - PICATINNY ARSENAL	PICATINNY 9C OBS	405628	743418	1987-93	112SFDF
27-150	US GEOLOGICAL SURVEY	GREAT SWAMP 4 OBS	404349	742516	1989-90	112SFDF
27-152	US GEOLOGICAL SURVEY	NILES PARK 1 OBS	404450	742459	1990-91	112SFDF
27-242	US ARMY - PICATINNY ARSENAL	PICATINNY CAF 1 OBS	405623	743413	1983-84,87-93	377HRDS

Data available in the files of the New Jersey District Office.

Aquifer unit:

- 112SFDF - Stratified drift
- 121CKKD - Kirkwood-Cohansey aquifer system
- 125VNCN - Vincentown Formation
- 211EGLS - Englishtown aquifer system
- 211MRPAU - Upper Potomac-Raritan-Magothy aquifer
- 211MRPAM - Middle Potomac-Raritan-Magothy aquifer
- 211MRPAL - Lower Potomac-Raritan-Magothy aquifer
- 2110DBG - Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system (Middlesex County)
- 211FRNG - Farrington aquifer, Potomac-Raritan-Magothy aquifer system (Middlesex County)
- 227PSSC - Passaic Formation
- 231SCKN - Stockton Formation
- 377HRDS - Hardyston Quartzite

Table 1.--Discontinued observation wells
for which ground-water-level data are available--Continued.

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	PERIOD OF RECORD	AQUIFER UNIT
27-245	US ARMY - PICATINNY ARSENAL	PICATINNY CAF 4 OBS	405623	743413	1983-84, 87-93	112SFDF
27-250	US ARMY - PICATINNY ARSENAL	PICATINNY LF 1 OBS	405509	743504	1983-84, 89-91	374LSVL
27-251	US ARMY - PICATINNY ARSENAL	PICATINNY LF 2 OBS	405509	743504	1983-91	112SFDF
27-304	US ARMY - PICATINNY ARSENAL	PICATINNY CAF 5 OBS	405629	743409	1984, 87-93	112SFDF
27-321	ROCKAWAY RIVER C C	GEONICS 2	405344	742740	1985-90	112SFDF
27-322	DOVER TOWN WD	DTWD TW 2	405314	743250	1985-89	112SFDF
27-323	MOUNTAIN LAKES WD	CRANE RD (GEONICS 1)	405253	742708	1985-89	112SFDF
27-324	ST CLARES HOSPITAL	POCONO RD (GEONICS 2)	405334	742828	1985-89	112SFDF
27-325	BOONTON TOWNSHIP	VALLEY RD (GEONICS 3)	405542	742617	1985-89	400PCMB
27-709	KEUFFEL & ESSER CO	KEUFFEL 2	405441	742948	1985-89	112SFDF
27-1083	MORRIS COUNTY MUA	MCMUA TEST WELL 1 OBS	405005	744101	1988-90	374LSVL
27-1084	MORRIS COUNTY MUA	MCMUA TEST WELL 2 OBS	404954	744122	1988-90	374LSVL
27-1085	WASHINGTON TWP MUA	WASHINGTON TWP TW OBS	404705	744638	1988-91	374LSVL
27-1110	ST ELIZABETH SISTERS OF CHARITY	CONVENT 2	404709	742544	1988-89	227BNTN
27-1111	ST ELIZABETH SISTERS OF CHARITY	CONVENT 3	404709	742544	1988-89	112SFDF
27-1125	US GEOLOGICAL SURVEY	BLACK RIVER 3 OBS	404934	743859	1989-91	374LSVL
27-1123	US GEOLOGICAL SURVEY	KENVIL NEWCRETE 1 OBS	405330	743638	1989-91	374LSVL
27-1124	US GEOLOGICAL SURVEY	KENVIL NEWCRETE 2 OBS	405330	743638	1989-90	112SFDF
27-1126	US GEOLOGICAL SURVEY	BLACK RIVER 4 OBS	404809	744155	1989-91	374LSVL
27-1127	US ARMY - PICATINNY ARSENAL	PICATINNY SB1-1 OBS	405458	743455	1989-91	400PCMB
27-1128	US ARMY - PICATINNY ARSENAL	PICATINNY SB1-2 OBS	405458	743455	1989-91	112SFDF
27-1129	US ARMY - PICATINNY ARSENAL	PICATINNY SB1-3 OBS	405458	743455	1989-91	112SFDF
27-1130	US ARMY - PICATINNY ARSENAL	PICATINNY SB2-1 OBS	405509	743509	1989-91	112SFDF
27-1131	US ARMY - PICATINNY ARSENAL	PICATINNY SB2-2 OBS	405509	743509	1989-91	112SFDF
27-1132	US ARMY - PICATINNY ARSENAL	PICATINNY SB3-1 OBS	405517	743515	1989-91	374LSVL
27-1133	US ARMY - PICATINNY ARSENAL	PICATINNY SB2-3 OBS	405509	743509	1989-91	374LSVL
27-1134	US ARMY - PICATINNY ARSENAL	PICATINNY SB3-2 OBS	405517	743515	1989-91	112SFDF
27-1135	US ARMY - PICATINNY ARSENAL	PICATINNY SB3-3 OBS	405517	743515	1989-91	112SFDF
27-1164	US GEOLOGICAL SURVEY	BLACK RIVER 5 OBS	404809	744155	1989-91	112SFDF
27-1183	US GEOLOGICAL SURVEY	KENVIL NEWCRETE 7 OBS	405330	743638	1989-90	112SFDF
27-1302	STATE OF NJ - GEOLOGICAL SURVEY	JENKINSON FARM 1 OBS	404452	744931	1989-91	374LSVL
29-486	WHITING BIBLE CHURCH	CRAMMER OBS	395714	742234	1952-90	121CKKD
29-532	PT PLEASANT WD	PPWD 3	400459	740359	1986-88	211EGLS
29-624	NJ/AMERICAN WATER CO	OCEAN CO DEEP	394755	741509	1975-76	121CKKD
29-625	NJ/AMERICAN WATER CO	OCEAN CO SHALL	394755	741509	1975-76	111ALVM
29-1056	DENZER AND SCHAFFER	D AND S-18D OBS	395433	741014	1992-93	121CKKD
31-011	WANAQUE WD	HASKELL OBS	410209	741708	1965-82	112SFDF
33-279	DARETOWN FIRE CO	GARRISON	393622	751531	1959-86	211MLRW
33-342	STATE OF NJ	PENNS GROVE 24	394236	752724	1942-87	211MRPAU
33-680	US GEOLOGICAL SURVEY	USGS COLES FARM OBS-1	393818	751324	1991-92	121CKKD
33-681	US GEOLOGICAL SURVEY	USGS COLES FARM OBS-2	393818	751324	1991-92	121CKKD
39-133	HATFIELD WIRE	HATFIELD OBS	403726	741623	1959-87	227BRCKS
41-013	HOFFMAN-LAROCHE	HOF LAR 4	405050	750332	1960-85	112SFDF

Data available in the files of the New Jersey District Office.

Aquifer unit:

111ALVM - Holocene Alluvium
 112SFDF - Stratified drift
 121CKKD - Kirkwood-Cohansey aquifer system
 211MLRW - Wenonah-Mount Laurel aquifer
 211EGLS - Englishtown aquifer system
 211MRPAU - Upper Potomac-Raritan-Magothy aquifer
 227BNTN - Boonton Formation
 227BRCKS - Brunswick Group sedimentary rocks
 374LSVL - Leithsville Formation
 400PCMB - Precambrian Erathem

QUALITY OF GROUND WATER - SALTWATER MONITORING NETWORK
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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ATLANTIC COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
†01-834	US GEOLOGICAL SURVEY	MARGATE FIREHOUSE 1 OBS	392017	743002	5	970 - 991	124PNPN
01-712	US GEOLOGICAL SURVEY	MIZPAH SHALLOW	392902	745051	100	377 - 387	121CKKD

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
01-834	US GEOLOGICAL SURVEY	MARGATE FIREHOUSE 1 OBS	8-16-94	17.5	1,820	8.5	360	290
01-712	US GEOLOGICAL SURVEY	MIZPAH SHALLOW	8-16-94	14.0	76	6.4	3.3	2.6

BURLINGTON COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
05-695	SUNY PINE CONT	TEST HOLE 1-74	395328	743720	111	428 - 496	211MLRW

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
05-695	SUNY PINE CONT	TEST HOLE 1-74	8-10-94	15.5	250	8.7	30	1.5

CAMDEN COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
†07-477	US GEOLOGICAL SURVEY	NEW BROOKLYN PARK 2 OBS	394215	745617	111.13	829 - 839	211MRPAU
†07-478	US GEOLOGICAL SURVEY	NEW BROOKLYN PARK 3 OBS	394215	745617	111.45	520 - 530	211MLRW

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
07-477	US GEOLOGICAL SURVEY	NEW BROOKLYN PARK 2 OBS	7-20-94	17.0	457	9.9	93	1.8
07-478	US GEOLOGICAL SURVEY	NEW BROOKLYN PARK 3 OBS	7-21-94	14.0	409	8.2	74	1.5

† - Water-level data for this well are available elsewhere in this report.

Aquifer unit:

121CKKD - Kirkwood-Cohansey aquifer system
124PNPN - Piney Point aquifer
211MLRW - Wenonah-Mount Laurel aquifer
211MRPAU - Upper Potomac-Raritan-Magothy aquifer

QUALITY OF GROUND WATER - SALTWATER MONITORING NETWORK
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

CAPE MAY COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
†09-150	US GEOLOGICAL SURVEY	WEST CAPE MAY 1 OBS	385607	745556	6.60	283 - 293	121CNSY
09-018	US COAST GUARD	USCG 2	385652	745327	11	295 - 325	121CNSY
†09-048	US GEOLOGICAL SURVEY	CANAL 5 OBS	385748	745533	17.48	242 - 252	121CNSY
09-352	US GEOLOGICAL SURVEY	ROSLYN AVE OBS SHALLOW	385855	745737	20	170 - 180	112ESRNS
09-353	US GEOLOGICAL SURVEY	ROSLYN AVE OBS DEEP	385855	745737	20	262 - 272	121CNSY
09-210	CAPE MAY COUNTY	CAPE MAY C-1	385946	745725	11.03	216 - 221	121CKKD
09-338	HEREFORD INLET MARINA	HEREFD/BISHOP 2-1986 PVC	390124	744801	5	276 - 296	121CNSY
09-213	CAPE MAY COUNTY	CAPE MAY F-41	390128	745639	12.23	203 - 208	121CKKD
09-217	CAPE MAY COUNTY	CAPE MAY F-42	390128	745639	13.17	96 - 100	112ESRNS
09-208	US GEOLOGICAL SURVEY	BSR-6	390212	745557	6.92	98 - 108	112ESRNS
09-188	CAPE MAY COUNTY	CAPE MAY F-36	390215	745440	5.5	229 - 233	121CNSY
09-189	CAPE MAY COUNTY	CAPE MAY F-37	390215	745440	5.5	83 - 87	112ESRNS
09-187	CAPE MAY COUNTY	CAPE MAY F-35	390218	745609	10	186 - 190	121CNSY
09-292	US GEOLOGICAL SURVEY	WETLANDS 1 OBS	390337	744623	5	251 - 261	121CNSY
†09-089	US GEOLOGICAL SURVEY	OYSTER LAB 4 OBS	390425	745446	7.37	195 - 210	121CNSY
09-192	RUTGERS UNIVERSITY	RUTGERS OYSTER LAB	390425	745446	7	64 - 71	112ESRNS

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
09-150	US GEOLOGICAL SURVEY	WEST CAPE MAY 1 OBS	9- 8-94	15.0	1,830	7.9	330	380
09-018	US COAST GUARD	USCG 2	8-31-94	15.0	408	7.8	66	53
09-048	US GEOLOGICAL SURVEY	CANAL 5 OBS	9-13-94	15.0	301	7.9	22	17
09-352	US GEOLOGICAL SURVEY	ROSLYN AVE OBS SHALLOW	8-25-94	15.5	232	7.5	20	6.1
09-353	US GEOLOGICAL SURVEY	ROSLYN AVE OBS DEEP	8-25-94	15.5	293	8.0	37	14
09-210	CAPE MAY COUNTY	CAPE MAY C-1	8-25-94	15.5	201	8.4	17	7.6
09-338	HEREFORD INLET MARINA	HEREFD/BISHOP 2-1986 PVC	8-31-94	15.0	1,730	7.3	160	470
09-213	CAPE MAY COUNTY	CAPE MAY F-41	8-30-94	16.5	192	8.4	12	8.5
09-217	CAPE MAY COUNTY	CAPE MAY F-42	8-30-94	16.5	1,720	7.5	190	450
09-208	US GEOLOGICAL SURVEY	BSR-6	8-18-94	14.5	2,440	7.3	370	660
09-188	CAPE MAY COUNTY	CAPE MAY F-36	8-26-94	16.0	144	7.2	10	9.4
09-189	CAPE MAY COUNTY	CAPE MAY F-37	8-26-94	14.5	231	7.9	8.9	15
09-187	CAPE MAY COUNTY	CAPE MAY F-35	8-18-94	16.5	664	7.1	29	160
09-292	US GEOLOGICAL SURVEY	WETLANDS 1 OBS	8-24-94	16.0	4,270	7.1	460	1,300
09-089	US GEOLOGICAL SURVEY	OYSTER LAB 4 OBS	9- 2-94	14.5	150	8.1	8.6	8.4
09-192	RUTGERS UNIVERSITY	RUTGERS OYSTER LAB	9- 2-94	14.5	488	7.7	48	94

† - Water-level data for this well are available elsewhere in this report.

Aquifer unit:

- 112ESRNS - Cape May Formation, estuarine sand facies
- 121CNSY - Cohansey Sand
- 121CKKD - Kirkwood-Cohansey aquifer system

QUALITY OF GROUND WATER - SALTWATER MONITORING NETWORK
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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MONMOUTH COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
25-567	US GEOLOGICAL SURVEY	UB WATER TOWER	402630	741029	10	250 - 270	2110DBG
25-568	US GEOLOGICAL SURVEY	JCP&L	402652	741100	10	245 - 265	2110DBG

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
25-567	US GEOLOGICAL SURVEY	UB WATER TOWER	9-26-94	13.5	115	6.2	1.9	16
25-568	US GEOLOGICAL SURVEY	JCP&L	9-14-94	13.5	10,500	6.0	1,600	3,400

OCEAN COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
†29-019	US GEOLOGICAL SURVEY	ISLAND BEACH 3 OBS	394829	740535	9.02	2,736 - 2,756	211MRPA
†29-018	US GEOLOGICAL SURVEY	ISLAND BEACH 2 OBS	394829	740535	8.50	468 - 474	124PNPN

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
29-019	US GEOLOGICAL SURVEY	ISLAND BEACH 3 OBS	8-31-94	24.5	2,890	8.0	540	810
29-018	US GEOLOGICAL SURVEY	ISLAND BEACH 2 OBS	9-27-94	13.5	367	9.4	73	10

SALEM COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
33-002	CUMBERLAND COUNTY	BOSTWICK NO 3	393202	751630	85	462 - 472	211MLRW
†33-251	US GEOLOGICAL SURVEY	SALEM 1 OBS	393348	752755	3	699 - 709	211MRPAM
†33-187	US GEOLOGICAL SURVEY	POINT AIRY OBS	394037	751914	72.97	664 - 672	211MRPAL

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	DATE	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SODIUM, DIS- SOLVED (MG/L AS NA)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
33-002	CUMBERLAND COUNTY	BOSTWICK NO 3	9-20-94	15.0	328	8.8	57	8.0
33-251	US GEOLOGICAL SURVEY	SALEM 1 OBS	9-28-94	15.0	5,790	7.3	980	1,700
33-187	US GEOLOGICAL SURVEY	POINT AIRY OBS	9-15-94	15.0	914	8.6	190	160

† - Water-level data for this well are available elsewhere in this report.

Aquifer Unit:

- 124PNPN - Piney Point aquifer
- 211MLRW - Wenonah-Mount Laurel aquifer
- 2110DBG - Old Bridge aquifer, Potomac-Raritan-Magothy aquifer system (Monmouth County)
- 211MRPAM - Middle Potomac-Raritan-Magothy aquifer
- 211MRPAL - Lower Potomac-Raritan-Magothy aquifer
- 211MRPA - Potomac-Raritan-Magothy aquifer system, undifferentiated

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BURLINGTON COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
05-0415	STATE OF NJ	MULLICA 52S	394531	0744356	54.09	21 - 26	121CKKD
05-0454	STATE OF NJ	MULLICA 3D OBS	394812	0744031	66.62	137 - 142	121CKKD

NJ-WRD WELL NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
05-0415	09-22-94	0955	45	4.4	12.5	4.4	5	0.91	0.57
05-0454	09-22-94	1300	52	6.1	12.5	0.1	9	3.1	0.40

NJ-WRD WELL NUMBER	DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
05-0415	09-22-94	1.8	0.30	<1	10	3.4	0.1	6.5	--
05-0454	09-22-94	3.5	2.3	16	4.4	2.1	<0.1	31	59

NJ-WRD WELL NUMBER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED, (UG/L AS CU)
05-0415	09-22-94	<0.01	<0.05	0.02	<0.2	<0.01	890	170	<.05	<1.0	<5	7
05-0454	09-22-94	<0.01	<0.05	0.04	<0.2	0.19	4	63	<.05	<1.0	<5	6

NJ-WRD WELL NUMBER	DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (MG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
05-0415	09-22-94	<10	<3	<1	41	<10	<10	<1.0	16	<6	9	1.1
05-0454	09-22-94	<10	1900	<1	34	<10	<10	<1.0	36	<6	<3	0.3

Aquifer Unit:

121CKKD - Kirkwood-Cohansey aquifer system

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HUNTERDON COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	OPEN OR SCREEN INTERVAL (FT.)	AQUIFER UNIT
19-0249	US GEOLOGICAL SURVEY	HUNTER RD TB 3 OBS	402141	0745358	430	11.5 - 63.5	227PSSC
19-0332*	NJ WATER SUPPLY AUTHORITY	NJ WATER AUTH MW3	402245	0745710	65	13 - 23	111ALVM
19-0239	WASABAUGH, F	WASABAUGH DOM E	402407	0745005	385	25 - 42	227BSLT
19-0329*	STATE OF NJ-DEPT OF CORR	ALBERT ELIAS RES CTR MW4	402530	0744610	530	20 - 40	227DIBS
19-0326*	COPPER HILL COUNTRY CLUB	COPPER HILL CC MW-1	402805	0745208	180	5.3 - 30.3	227PSSC
19-0330	FRANKLIN TWP BOARD OF ED	QUAKERTOWN EL SCH MW-1	403359	0745650	610	10 - 20	231LCKG
19-0270†	STATE OF NJ	READINGTON SCHOOL 11 OBS	403517	0744525	224.99	50 - 101	227PSSC
19-0331	STANTON PROPERTIES	STANTON PROP MW-1	403524	0744850	291	60 - 85	227PSSC
19-0327	ROLLING HILLS CARE FACIL	ROLLING HILLS CARE MW-1	403532	0745152	205.38	2 - 20	231SCKN
19-0328*	TEWKSBURY TWP	OLDWICK WP CONTROL MW-1R	404019	0744446	205	20 - 50	227PSSC

NJ-WRD WELL NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
19-0249	08-11-94	1415	772	6.8	13.5	5.2	230	47	27	33	5.9
19-0332*	09-29-94	1130	411	6.7	12.0	--	160	41	13	9.1	1.7
19-0239	08-30-94	1440	231	6.2	11.0	6.0	96	24	8.8	7.1	0.40
19-0329*	09-22-94	1330	187	6.4	12.0	--	84	17	10	4.1	0.40
19-0326*	08-11-94	1400	524	7.4	11.0	--	380	130	14	13	1.4
19-0330	09-29-94	1200	408	6.0	18.0	7.7	110	25	11	26	5.6
19-0270	08-12-94	1200	97	6.2	12.5	7.2	23	3.9	3.2	9.9	0.90
19-0331	08-31-94	1105	369	7.4	14.0	6.8	160	42	14	14	1.5
19-0327	09-27-94	1320	261	6.5	15.0	1.9	81	25	4.4	18	3.9
19-0328*	08-16-94	1300	460	7.5	11.0	2.4	45	58	23	7.8	1

NJ-WRD WELL NUMBER	DATE	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
19-0249	08-11-94	104	87	62	110	0.4	42	386	0.05	1.70	0.02
19-0332*	09-29-94	219	180	1.7	18	0.1	24	236	0.01	<0.05	1.30
19-0239	08-30-94	72	59	18	9.9	<0.1	26	130	--	--	--
19-0329*	09-22-94	76	63	20	3.9	<0.1	40	133	<0.01	0.079	<0.01
19-0326*	08-11-94	265	217	140	8.6	0.1	17	480	<0.01	5.70	0.02
19-0330	09-29-94	28	24	30	70	<0.1	15	220	<0.01	5.20	0.04
19-0270	08-12-94	36	30	5.1	2.4	0.1	36	89	<0.01	1.90	0.02
19-0331	08-31-94	189	154	21	4.5	0.2	26	226	<0.01	2.00	0.01
19-0327	09-27-94	70	58	20	22	0.2	9.1	141	<0.01	0.90	<0.01
19-0328*	08-16-94	219	179	26	22	<0.1	15	216	<0.01	2.00	0.01

NJ-WRD WELL NUMBER	DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
19-0249	08-11-94	<0.20	<0.01	<10	<1	8	<1.0	<1	<1	33	<1
19-0332*	09-29-94	1.3	0.03	<10	5	150	<1.0	<1	<1	15000	<1
19-0239	08-30-94	--	--	<10	<1	<2	<1.0	<1	14	9	<1
19-0329*	09-22-94	<0.20	0.03	<10	<1	<2	<1.0	20	<1	<3	<1
19-0326*	08-11-94	0.20	0.01	<10	1	92	<1.0	<1	2	<3	<1
19-0330	09-29-94	<0.20	<0.01	<10	<1	110	<1.0	<1	<1	12	6
19-0270	08-12-94	<0.20	0.21	3	<1	80	<1.0	<1	52	230	<1
19-0331	08-31-94	<0.20	0.19	<10	1	20	<1.0	1	<1	<3	<1
19-0327	09-27-94	0.30	<0.01	20	<1	24	<1.0	3	7	50	17
19-0328*	08-16-94	<0.20	0.04	<10	<1	270	<1.0	<1	<1	3	<1

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

HUNTERDON COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
19-0249	08-11-94	150	<0.1	<1	<1.0	10	10	2.0	2.3	1.6	0.7
19-0332*	09-29-94	2800	0.1	<1	<1.0	<3	3.5	1.0	<0.6	0.67	3.6
19-0239	08-30-94	<1	<0.1	<1	<1.0	<3	0.8	0.60	<0.6	0.35	0.2
19-0329*	09-22-94	5	<0.1	<1	<1.0	<3	0.8	0.63	<0.6	0.27	0.4
19-0326*	08-11-94	<1	<0.1	<1	<1.0	8	2.9	1.2	3.0	2.1	1.4
19-0330	09-29-94	8	<0.1	1	<1.0	11	5.8	1.3	0.7	0.80	0.6
19-0270	08-12-94	17	<0.1	<1	<1.0	27	2.6	0.89	<0.6	0.42	0.2
19-0331	08-31-94	2	<0.1	<1	<1.0	4	2.0	0.84	0.8	0.77	0.5
19-0327	09-27-94	3	0.1	<1	<1.0	<3	5.6	1.5	0.9	0.79	6.1
19-0328*	08-16-94	<1	--	<1	<1.0	<3	2.3	0.92	1.7	1.2	0.2
NJ-WRD WELL NUMBER	DATE	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	
19-0249	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0332*	09-29-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0239	08-30-94	--	--	--	--	--	--	--	--	--	
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--	
19-0326*	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.8	<0.2	<0.2	
19-0330	09-29-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.8	<0.2	<0.2	
19-0270	08-12-94	--	--	--	--	--	--	--	--	--	
19-0331	08-31-94	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	
19-0327	09-27-94	<0.2	7.3	4.4	0.3	<0.2	0.4	240	<0.2	<0.2	
19-0328*	08-16-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
NJ-WRD WELL NUMBER	DATE	ACRO- LEIN TOTAL (UG/L)	ACRYLO- NITRILE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	
19-0249	08-11-94	<20	<20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0332*	09-29-94	--	--	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0239	08-30-94	--	--	--	--	--	--	--	--	--	
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--	
19-0326*	08-11-94	<20	<20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0330	09-29-94	--	--	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0270	08-12-94	--	--	--	--	--	--	--	--	--	
19-0331	08-31-94	<20	<20	<0.20	<2.0	<0.2	<0.2	<0.2	<0.2	<0.2	
19-0327	09-27-94	--	--	<0.20	0.9	<0.2	0.6	9.8	1.5	<0.2	
19-0328*	08-16-94	<20	<20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L)	
19-0249	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	
19-0332*	09-29-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	
19-0239	08-30-94	--	--	--	--	--	--	--	--	--	
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--	
19-0326*	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	
19-0330	09-29-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	
19-0270	08-12-94	--	--	--	--	--	--	--	--	--	
19-0331	08-31-94	<0.2	<0.2	1.9	31	<0.2	<0.2	<0.20	<0.2	<0.2	
19-0327	09-27-94	<0.2	0.4	<0.2	<0.2	E0.3	<0.2	<0.20	0.2	<0.2	
19-0328*	08-16-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
HUNTERDON COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)
19-0249	08-11-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
19-0332*	09-29-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	0.2
19-0239	08-30-94	--	--	--	--	--	--	--	--	--
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--
19-0326*	08-11-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
19-0330	09-29-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
19-0270	08-12-94	--	--	--	--	--	--	--	--	--
19-0331	08-31-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
19-0327	09-27-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
19-0328*	08-16-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2

NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)
19-0249	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
19-0332*	09-29-94	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
19-0239	08-30-94	--	--	--	--	--	--	--	--	--
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--
19-0326*	08-11-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
19-0330	09-29-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.20	<0.20
19-0270	08-12-94	--	--	--	--	--	--	--	--	--
19-0331	08-31-94	9.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
19-0327	09-27-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
19-0328*	08-16-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20

NJ-WRD WELL NUMBER	DATE	BENZENE N-PROPYL WATER UNFLTRD REC (UG/L)	MESIT- YLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)
19-0249	08-11-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0332*	09-29-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0239	08-30-94	--	--	--	--	--	--	--	--	--
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--
19-0326*	08-11-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0330	09-29-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0270	08-12-94	--	--	--	--	--	--	--	--	--
19-0331	08-31-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0327	09-27-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
19-0328*	08-16-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

QUALITY OF GROUND WATER
 WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
HUNTERDON COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	ETHANE, TRI- CHLORO- TRI- FLUORO- WAT, UNF REC (UG/L)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)
19-0249	08-11-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
19-0332*	09-29-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
19-0239	08-30-94	--	--	--	--	--	--	--	--	--
19-0329*	09-22-94	--	--	--	--	--	--	--	--	--
19-0326*	08-11-94	<0.2	<0.2	<0.20	<0.2	<0.2	2.1	<0.20	<0.2	<1.0
19-0330	09-29-94	<0.2	<0.2	<0.20	<0.2	<0.2	0.2	0.90	<0.2	<1.0
19-0270	08-12-94	--	--	--	--	--	--	--	--	--
19-0331	08-31-94	<0.2	<0.2	<0.20	<0.2	<0.2	0.5	<0.20	<0.2	<1.0
19-0327	09-27-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
19-0328*	08-16-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0

† - Water-level data for this well are available elsewhere in this report.

* - Field data and samples for laboratory analyses provided by New Jersey Department of Environmental Protection.

Aquifer Units:

227PSSC - Passaic Formation
 111ALVM - Alluvium
 227BSLT - Brunswick Group basalt
 227DIBS - Diabase
 231LCKG - Lockatong Formation
 231SCKN - Stockton Formation

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MERCER COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L)
21-0414	09-21-94 09-30-94	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.20	-- <0.2	-- <0.2
NJ-WRD WELL NUMBER	DATE	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)
21-0414	09-21-94 09-30-94	-- <0.20	-- <0.20	-- <0.20	-- <1.0	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2
NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	CIS-1,2- DI- CHLORO- ETHENE WATER TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,1-DI- CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)
21-0414	09-21-94 09-30-94	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.20	-- <0.20
NJ-WRD WELL NUMBER	DATE	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	MESIT- YLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)
21-0414	09-21-94 09-30-94	-- <0.20	-- <0.20	-- <0.2	-- <0.20	-- <0.20	-- <0.20	-- <0.20	-- <0.20	-- <0.20
NJ-WRD WELL NUMBER	DATE	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	ETHANE, TRI- CHLORO- TRI- FLUORO- WAT, UNF REC (UG/L)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)
21-0414	09-21-94 09-30-94	-- <0.2	-- <0.2	-- <0.20	-- <0.2	-- <0.2	-- <0.2	-- <0.20	-- <0.2	-- <1.0

Aquifer Unit:

231SCKN - Stockton Formation

[illegible]

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MIDDLESEX COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANSDI- CHLORO- ETHENE TOTAL (UG/L)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	NAPHTH- ALENE TOTAL (UG/L)
23-1249	09-14-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2
23-1250	09-13-94	--	--	--	--	--	--	--	--	--	--

NJ-WRD WELL NUMBER	DATE	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,1-DI- CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L)
23-1249	09-14-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
23-1250	09-13-94	--	--	--	--	--	--	--	--	--	--

NJ-WRD WELL NUMBER	DATE	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	MESIT- YLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)
23-1249	09-14-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
23-1250	09-13-94	--	--	--	--	--	--	--	--	--	--

NJ-WRD WELL NUMBER	DATE	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2,3- TRI- CHLORO- BENZENE WAT, WH REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	ETHANE, TRI- CHLORO- TRI- FLUORO- WAT, UNF REC (UG/L)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)
23-1249	09-14-94	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
23-1250	09-13-94	--	--	--	--	--	--	--	--	--	--

Aquifer Unit:

231SCKN - Stockton Formation

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MORRIS COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER		LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	OPEN INTERVAL (FT.)		AQUIFER UNIT		
27-1303† 27-1795*	STATE OF NJ-GEOLOGICAL SURVEY MT OLIVE TWP BOARD OF ED	DREW UNIVERSITY FARM OBS MT OLIVE HS MW1		404712 405134	0744547 0744258	600.8 1,070	97.6 - 118 22.5 - 43		374LSVL 400PCMB		
NJ-WRD WELL NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
27-1303 27-1795*	09-20-94 08-10-94	1245 1300	238 135	7.7 5.6	11.0 10.0	8.5 5.6	120 51	23 12	14 5.1	3.1 3.2	1.4 0.80
NJ-WRD WELL NUMBER	DATE	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
27-1303 27-1795*	09-20-94 08-10-94	110 29	91 --	5.1 17	5.8 5.4	<0.1 <0.1	13 10	132 79	<0.01 <0.01	2.90 2.40	<0.01 0.01
NJ-WRD WELL NUMBER	DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
27-1303 27-1795*	09-20-94 08-10-94	<0.20 <0.20	<0.01 0.02	<10 30	<1 <1	22 21	<1.0 <1.0	<1 <1	<1 2	9 <3	<1 <1
NJ-WRD WELL NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
27-1303 27-1795*	09-20-94 08-10-94	4 6	<0.1 <0.1	<1 <1	<1.0 <1.0	<3 4	2.1 1.4	0.73 0.69	0.9 <0.6	0.60 0.18	0.2 0.5
NJ-WRD WELL NUMBER	DATE	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	
27-1303 27-1795*	09-20-94 08-10-94	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- 0.2	-- <0.2	
NJ-WRD WELL NUMBER	DATE	ACRO- LEIN TOTAL (UG/L)	ACRYLO- NITRILE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	
27-1303 27-1795*	09-20-94 08-10-94	-- <20	-- <20	-- <0.20	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	-- <0.2	

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MORRIS COUNTY--Continued

NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L)
27-1303	09-20-94	--	--	--	--	--	--	--	--	--
27-1795*	08-10-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2
NJ-WRD WELL NUMBER	DATE	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	NAPHTH- ALENE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)
27-1303	09-20-94	--	--	--	--	--	--	--	--	--
27-1795*	08-10-94	<0.20	<0.20	<0.20	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2
NJ-WRD WELL NUMBER	DATE	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L)	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)
27-1303	09-20-94	--	--	--	--	--	--	--	--	--
27-1795*	08-10-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
NJ-WRD WELL NUMBER	DATE	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	MESIT- YLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)
27-1303	09-20-94	--	--	--	--	--	--	--	--	--
27-1795*	08-10-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
NJ-WRD WELL NUMBER	DATE	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	ETHANE, TRI- CHLORO- TRI- FLUORO- WAT UNF REC (UG/L)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)
27-1303	09-20-94	--	--	--	--	--	--	--	--	--
27-1795*	08-10-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0

† - Water-level data for this well are available elsewhere in this report.

* - Field data and samples for laboratory analyses provided by New Jersey Department of Environmental Protection.

Aquifer Units:

374LSVL - Leithsville Formation
400PCMB - Precambrian Erathem

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SOMERSET COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	OPEN OR SCREEN INTERVAL (FT.)	AQUIFER UNIT
35-0086	PRINCETON MONTESSORI SCHL	PRINCETON MONTESSORI SCHL	402253	0744147	260	25 - 45	231LCKG
35-0084*	CARRIER FOUNDATION	CARRIER FDN STP	402753	0744116	125	11 - 55	227PSSC
35-0087*	ALMA WHITE COLLEGE	ALMA WHITE COLLEGE MW3	403210	0743443	40	15 - 20	111ALVM
35-0088*	ALMA WHITE COLLEGE	ALMA WHITE COLLEGE MW4	403214	0743435	40	15 - 20	111ALVM
35-0085*	BERNARDS TWP SEWER AUTH	HARRISONS BROOK STP MW-5	403923	0743435	225	5 - 25	227TOWC

NJ-WRD WELL NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
35-0086	09-12-94	1310	313	7.3	13.5	0.3	120	21	17	15	4.7
35-0084*	09-23-94	1200	366	7.2	12.5	--	150	43	9.7	13	0.70
35-0087*	09-24-94	1100	273	5.9	12.0	--	68	17	6.3	19	2.8
35-0088*	09-24-94	1330	215	6.2	11.5	--	64	17	5.3	11	1.4
35-0085*	08-19-94	1300	478	7.3	13.0	3.3	240	62	21	26	1.8

NJ-WRD WELL NUMBER	DATE	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY WAT WH TOT FET DIS- SOLVED (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
35-0086	09-12-94	--	--	55	5.7	0.3	24	197	<0.01	0.27	<0.01
35-0084*	09-23-94	113	92	37	16	0.1	30	229	<0.01	5.20	<0.01
35-0087*	09-24-94	29	24	11	53	<0.1	12	140	<0.01	0.79	<0.01
35-0088*	09-24-94	26	22	16	22	<0.1	12	121	<0.01	5.30	<0.01
35-0085*	08-19-94	315	258	14	7.7	0.1	34	330	<0.01	1.70	0.01

NJ-WRD WELL NUMBER	DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
35-0086	09-12-94	<0.20	0.03	--	<1	3	<1.0	1	1	35	<1
35-0084*	09-23-94	<0.20	0.31	<10	<1	48	<1.0	<1	<1	<3	<1
35-0087*	09-24-94	<0.20	0.44	10	<1	97	<1.0	<1	<1	<3	<1
35-0088*	09-24-94	<0.20	0.05	<10	<1	68	<1.0	<1	<1	<3	<1
35-0085*	08-19-94	<0.20	0.05	<10	4	370	<1.0	<1	1	<3	<1

NJ-WRD WELL NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	ALPHA RADIO. WATER, DISS AS TH-230 (PCI/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
35-0086	09-12-94	8	<0.1	<1	<1.0	50	11	1.8	10	2.6	0.6
35-0084*	09-23-94	<1	0.3	<1	<1.0	9	1.8	0.82	<0.6	0.60	0.3
35-0087*	09-24-94	<1	<0.1	<1	<1.0	7	3.3	0.88	<0.6	0.42	0.3
35-0088*	09-24-94	<1	0.5	<1	<1.0	<3	1.9	0.67	<0.6	0.37	0.4
35-0085*	08-19-94	<1	<0.1	<1	<1.0	4	3.4	1.1	3.2	1.6	2.0

[illegible]

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SOMERSET COUNTY - Continued

NJ-WRD WELL NUMBER	DATE	BENZENE N-PROPYL WATER UNFLTRD REC (UG/L)	MESIT- YLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)
35-0086	09-12-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
35-0084*	09-23-94	--	--	--	--	--	--	--	--	--
35-0087*	09-24-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
35-0088*	09-24-94	--	--	--	--	--	--	--	--	--
35-0085*	08-19-94	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

NJ-WRD WELL NUMBER	DATE	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	ETHANE, TRI- CHLORO- TRI- FLUORO- WAT, UNF REC (UG/L)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L)
35-0086	09-12-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
35-0084*	09-23-94	--	--	--	--	--	--	--	--	--
35-0087*	09-24-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0
35-0088*	09-24-94	--	--	--	--	--	--	--	--	--
35-0085*	08-19-94	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0

* - Field data and samples for laboratory analyses provided by New Jersey Department of Environmental Protection.

Aquifer Units:

231LCKG - Lockatong Formation
227PSSC - Passaic Formation
111ALVM - Alluvium
227TOWC - Towaco Formation

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WARREN COUNTY

NJ-WRD WELL NUMBER	SITE OWNER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
41-0293*	BRANDYWINE AT BROADWAY	BRANDYWINE AT BDWY MW-E	404349	0750313	355	17 - 37	112SFDF

NJ-WRD WELL NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)
41-0293*	09-27-94	1230	202	6.0	12.0	72	20	5.4	5.6	2.1	21

NJ-WRD WELL NUMBER	DATE	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
41-0293*	09-27-94	17	26	7.3	<0.1	12	120	<0.01	7.00	0.01	<0.20

NJ-WRD WELL NUMBER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
41-0293*	09-27-94	<0.01	<10	<1	62	<1.0	<1	<1	<3	<1	<1

NJ-WRD WELL NUMBER	DATE	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
41-0293*	09-27-94	0.3	<1	<1.0	<3	2.8	0.95	<0.6	0.42	0.4

* - Field data and samples for laboratory analyses provided by New Jersey Department of Environmental Protection.

Aquifer Unit:

112SFDF - Stratified drift

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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.

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