



Water-Data Report 2012

382154076574801 Local number CH Ee 70

Northern Atlantic Coastal Plain aquifer system
Lower Patapsco Aquifer In the Patapsco Formation

Charles County, MD

LOCATION.--Lat 38°21'56", long 76°57'51" referenced to North American Datum of 1927, Charles County, MD, Hydrologic Unit 02070011, 1.5 mi. north of Morgantown.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 1,132 ft. Upper casing diameter 2 in; top of first opening 1,090 ft, bottom of last opening 1,115 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 22.83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter platform, 3.43 ft above land-surface datum, Oct. 1974 to present.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-level measurements by U.S. Geological Survey personnel. Equipped with graphic water-level recorder from May 1982 to January 1983. Equipped with digital water-level recorder--15 and 30-minute recorder intervals from June 1978 to October 1992, May 1995 to current year.

REMARKS.-- Maryland Groundwater-Level Monitoring Network observation well. Water levels are affected by local and regional groundwater withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.64 ft below sea level, January 6, 1985; lowest measured, 147.68 ft below sea level, December 16, 2009 (recorder).

**WATER SURFACE ELEVATION IN FEET NGVD 1929
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 7	-107.35	T	--	Apr 19	-97.00	T	--
10	-108.26	T	--	Jun 6	-98.31	T	--
Nov 18	-109.68	T	--	Jul 11	-97.82	T	--
Dec 28	-101.81	T	--	Aug 14	-99.74	T	--
Feb 1	-107.53	T	--	Sep 13	-94.43	T	--
Mar 15	-99.35	T	--				

Water year 2012 lowest: -109.68, Nov 18, 2011, highest: -94.43, Sep 13, 2012

382154076574801 Local number CH Ee 70—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	-101.86	-107.06	-105.96	-111.34	-105.38	-110.59	-98.95	-102.76	-106.79	-110.72	-96.06	-100.26
2	-101.86	-105.86	-106.19	-112.03	-104.18	-109.85	-98.65	-103.43	-106.79	-120.13	-95.37	-101.09
3	-101.86	-105.36	-106.19	-111.08	-104.64	-110.91	-98.81	-102.81	-107.28	-113.71	-95.02	-100.28
4	-102.36	-107.96	-106.31	-111.68	-104.15	-109.94	-99.30	-103.91	-104.49	-111.38	-94.51	-100.74
5	-102.76	-107.36	-105.64	-109.52	-104.22	-109.88	-99.51	-108.36	-104.00	-108.43	-95.46	-101.64
6	-102.56	-108.66	-105.09	-109.24	-103.25	-107.68	-102.74	-108.86	-103.33	-112.93	-96.06	-104.04
7	-103.46	-109.93	-102.50	-108.59	-102.72	-106.71	-100.74	-106.83	-106.07	-112.62	-98.71	-107.69
8	-102.61	-109.13	-103.56	-108.22	-102.22	-109.37	-96.03	-100.74	-104.94	-108.93	-97.79	-105.72
9	-102.28	-108.03	-104.07	-108.18	-102.10	-107.61	-95.41	-103.60	-104.20	-110.08	-98.37	-104.06
10	-102.04	-109.69	-103.56	-109.28	-101.66	-105.72	-96.80	-112.02	-106.39	-114.46	-97.41	-102.83
11	-104.20	-109.20	-106.33	-111.22	-101.32	-105.74	-98.96	-108.40	-104.94	-109.30	-95.01	-98.61
12	-102.70	-106.39	-104.86	-109.38	-101.36	-108.40	-100.90	-103.14	-104.13	-108.44	-94.60	-101.42
13	-102.24	-109.34	-104.00	-107.42	-104.89	-110.06	-101.02	-106.85	-103.99	-109.94	-94.71	-100.87
14	-102.70	-106.55	-103.77	-109.61	-103.62	-109.30	-101.41	-105.10	-104.82	-110.87	-95.91	-105.18
15	-103.39	-108.10	-103.70	-110.05	-105.40	-110.22	-100.81	-105.95	-104.48	-109.58	-95.10	-105.95
16	-102.74	-106.94	-106.10	-110.95	-107.66	-113.22	-101.11	-107.36	-104.25	-110.15	-98.73	-107.77
17	-102.19	-109.43	-104.99	-110.30	-103.92	-110.08	-101.92	-107.71	-106.27	-110.59	-95.90	-102.56
18	-104.84	-110.12	-106.86	-111.34	-102.94	-107.22	-102.22	-106.67	-104.81	-109.63	-93.41	-96.66
19	-104.04	-108.79	-105.64	-110.53	-102.25	-108.25	-102.68	-108.44	-103.48	-107.37	-92.16	-96.84
20	-103.55	-107.84	-104.65	-109.72	-102.41	-108.90	-102.84	-107.18	-102.97	-111.69	-93.66	-99.61
21	-103.99	-108.23	-104.07	-111.27	-104.47	-108.80	-101.52	-105.58	-104.40	-109.66	-94.38	-99.84
22	-103.80	-110.01	-104.49	-110.18	-103.18	-109.01	-100.88	-105.31	-100.84	-106.20	-96.02	-100.93
23	-106.16	-112.87	-105.59	-111.48	-102.16	-106.34	-100.56	-107.30	-98.81	-101.56	-94.94	-99.74
24	-105.33	-113.61	-104.42	-109.72	-100.59	-104.21	-103.17	-109.52	-97.80	-99.35	-92.59	-99.39
25	-105.95	-111.00	-105.55	-110.74	-100.48	-105.07	-102.23	-118.17	-96.00	-98.03	-90.67	-95.38
26	-105.24	-109.53	-104.35	-107.88	-100.24	-104.95	-106.22	-120.38	-95.54	-97.36	-91.80	-95.89
27	-104.80	-111.76	-103.66	-108.32	-100.24	-104.63	-106.08	-118.77	-95.05	-96.05	-91.29	-97.02
28	-106.32	-111.60	-103.66	-110.64	-99.74	-104.00	-105.50	-109.93	-95.16	-104.43	-89.18	-93.40
29	-105.92	-112.11	-106.71	-119.93	-100.06	-105.90	-105.13	-109.75	-97.17	-101.96	-88.65	-100.81
30	-105.20	-110.99	-108.35	-121.64	-100.29	-104.54	-103.96	-108.38	---	---	-91.28	-99.38
31	-107.07	-113.85	---	---	-99.14	-101.86	-106.10	-120.80	---	---	-91.37	-103.05
Month	-101.86	-113.85	-102.50	-121.64	-99.14	-113.22	-95.41	-120.80	-95.05	-120.13	-88.65	-107.77

382154076574801 Local number CH Ee 70—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	-89.40	-98.89	-88.28	-93.65	-116.08	-120.90	-88.42	-89.39	-94.96	-102.15	-91.09	-96.16
2	-88.75	-96.97	-88.19	-95.38	-98.82	-119.50	-88.06	-90.14	-96.60	-100.80	-90.74	-97.13
3	-87.65	-98.40	-89.89	-95.52	-94.62	-100.02	-88.64	-89.98	-95.29	-100.73	-92.33	-97.92
4	-88.59	-100.63	-88.46	-94.85	-93.72	-99.00	-88.80	-90.14	-94.99	-102.02	-91.53	-99.42
5	-87.32	-98.17	-92.06	-96.45	-94.74	-100.78	-89.59	-94.29	-93.58	-97.92	-94.62	-101.01
6	-92.45	-99.60	-93.41	-96.72	-93.67	-100.57	-92.98	-96.58	-92.96	-99.37	-93.00	-99.18
7	-89.34	-95.34	-92.03	-98.30	-92.87	-99.07	-91.94	-97.27	-94.26	-99.54	-94.09	-99.85
8	-88.46	-92.73	-91.11	-98.72	-91.57	-95.80	-91.23	-96.60	-93.22	-101.74	-92.61	-94.20
9	-86.23	-89.27	-94.71	-100.61	-92.47	-97.64	-90.86	-96.88	-96.80	-102.31	-91.60	-92.61
10	-85.56	-92.16	-96.97	-102.90	-91.44	-96.72	-90.90	-97.11	-98.39	-103.97	-90.23	-91.69
11	-86.42	-90.43	-94.66	-101.90	-90.77	-96.67	-93.88	-99.58	-95.99	-100.33	-91.53	-95.38
12	-85.87	-90.92	-93.60	-100.08	-90.77	-97.43	-92.08	-97.66	-94.69	-100.32	-92.33	-98.82
13	-86.74	-92.49	-91.08	-99.08	-90.77	-100.92	-95.00	-100.82	-95.29	-100.62	-91.87	-96.95
14	-84.55	-87.18	-95.60	-100.81	-90.56	-95.98	-92.11	-97.37	-94.18	-102.88	-90.81	-95.70
15	-84.18	-89.33	-98.39	-115.34	-89.97	-96.38	-90.84	-94.95	-97.78	-101.54	-91.78	-97.78
16	-84.85	-92.03	-98.36	-115.55	-90.34	-95.55	-90.17	-96.45	-95.77	-100.32	-90.97	-96.28
17	-89.57	-94.90	-93.75	-99.36	-89.92	-95.71	-91.12	-97.63	-94.41	-99.44	-90.93	-95.31
18	-88.74	-95.20	-92.44	-97.19	-88.17	-92.90	-93.73	-104.13	-94.50	-99.05	-91.30	-97.15
19	-91.02	-97.16	-89.71	-93.15	-87.62	-93.96	-98.44	-103.72	-93.30	-96.83	-94.59	-99.67
20	-89.91	-94.69	-89.18	-94.52	-87.89	-94.58	-93.60	-100.98	-91.57	-95.93	-93.44	-99.62
21	-88.51	-94.74	-89.26	-97.82	-90.89	-96.20	-93.48	-101.88	-91.06	-96.92	-92.38	-97.66
22	-87.91	-91.99	-90.35	-97.94	-90.11	-96.15	-94.11	-98.70	-91.85	-99.53	-90.48	-95.07
23	-87.39	-92.21	-89.80	-98.77	-89.85	-95.58	-93.23	-98.45	-93.26	-97.39	-89.76	-94.49
24	-87.90	-108.98	-95.70	-100.82	-88.91	-93.41	-93.12	-109.39	-92.22	-97.80	-89.49	-96.04
25	-92.58	-101.78	-93.74	-100.94	-88.29	-95.32	-103.85	-113.33	-91.90	-96.32	-91.03	-95.60
26	-90.16	-95.58	-96.32	-103.82	-91.58	-98.46	-101.24	-114.90	-90.49	-95.70	-90.04	-96.84
27	-88.52	-92.74	-95.85	-104.54	-89.97	-95.14	-98.08	-104.59	-89.73	-97.64	-88.96	-93.80
28	-87.78	-91.98	-100.00	-103.46	-91.33	-97.58	-95.51	-100.68	-92.36	-98.47	-88.36	-96.38
29	-87.32	-93.80	-98.09	-103.42	-89.97	-95.34	-93.90	-99.04	-91.60	-98.05	-88.93	-95.95
30	-88.65	-93.54	-96.45	-102.75	-88.77	-90.11	-92.93	-100.08	-94.99	-99.02	-88.56	-93.75
31	---	---	-96.78	-116.08	---	---	-96.55	-104.28	-92.01	-97.66	---	---
Month	-84.18	-108.98	-88.19	-116.08	-87.62	-120.90	-88.06	-114.90	-89.73	-103.97	-88.36	-101.01

	Max	Min
Year	-84.18	-121.64

382154076574801 Local number CH Ee 70—Continued

