



Water-Data Report 2011

384157075454103 Local number CO Fd 43

Northern Atlantic Coastal Plain aquifer system
Calvert Formation

Caroline County, MD

LOCATION.--Lat 38°41'57", long 75°45'41" referenced to North American Datum of 1983, Caroline County, MD, Hydrologic Unit 02060005, Idylwild Wildlife Management Area.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 279 ft. Upper casing diameter 4.5 in; top of first opening 234 ft, bottom of last opening 274 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 32 ft above North American Vertical Datum of 1988. Measuring point: Top of casing, 2.60 ft above land-surface datum, July 13, 2010, to present.

PERIOD OF RECORD.--July 2010 to current year.

GAGE.--Water-level measurements by Maryland Geological Survey personnel. Equipped with digital water-level recorder, August 2010 to October 2010 and May 2011 to current year.

REMARKS.--Maryland Groundwater-Level Monitoring Network observation well. Drilled as part of the Maryland Coastal Plain study in order to differentiate the Miocene age aquifers.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.24 ft below land surface, April 25, 2011; lowest measured, 44.01 ft below land surface, August 1, 2011 (recorder).

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[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 13	41.38	T	--	May 26	40.90	T	--
18	41.27	T	--	Jun 30	42.03	T	--
Jan 20	40.66	T	--	Jul 27	43.42	T	--
Feb 15	40.62	T	--	Aug 31	42.56	T	--
Mar 29	40.68	T	--	Sep 30	41.77	T	--
Apr 25	40.24	T	--				

Water year 2011 highest: 40.24, Apr 25, 2011; lowest: 43.42, Jul 27, 2011

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	41.69	41.48	---	---	---	---	---	---	---	---	---	---
2	41.61	41.53	---	---	---	---	---	---	---	---	---	---
3	41.58	41.44	---	---	---	---	---	---	---	---	---	---
4	41.53	41.41	---	---	---	---	---	---	---	---	---	---
5	41.52	41.43	---	---	---	---	---	---	---	---	---	---
6	41.49	41.39	---	---	---	---	---	---	---	---	---	---
7	41.46	41.39	---	---	---	---	---	---	---	---	---	---
8	41.47	41.38	---	---	---	---	---	---	---	---	---	---
9	41.47	41.39	---	---	---	---	---	---	---	---	---	---
10	41.46	41.35	---	---	---	---	---	---	---	---	---	---
11	41.38	41.28	---	---	---	---	---	---	---	---	---	---
12	41.39	41.33	---	---	---	---	---	---	---	---	---	---
13	41.40	41.36	---	---	---	---	---	---	---	---	---	---
14	41.39	41.25	---	---	---	---	---	---	---	---	---	---
15	41.28	41.16	---	---	---	---	---	---	---	---	---	---
16	41.32	41.23	---	---	---	---	---	---	---	---	---	---
17	41.33	41.19	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	41.69	41.16	---	---	---	---	---	---	---	---	---	---

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	41.74	41.64	42.16	42.01	44.01	43.89	42.60	42.53
2	---	---	---	---	41.84	41.66	42.25	42.11	44.00	43.92	42.55	42.49
3	---	---	---	---	41.93	41.79	42.24	42.10	43.99	43.94	42.50	42.43
4	---	---	---	---	41.95	41.84	42.12	42.05	43.94	43.86	42.43	42.33
5	---	---	40.43	40.31	41.95	41.85	42.21	42.07	43.87	43.79	42.41	42.25
6	---	---	40.42	40.29	41.96	41.83	42.27	42.21	43.80	43.71	42.38	42.31
7	---	---	40.40	40.28	41.84	41.77	42.33	42.22	43.71	43.66	42.37	42.33
8	---	---	40.45	40.26	41.86	41.77	42.35	42.25	43.78	43.67	42.37	42.06
9	---	---	40.48	40.33	41.95	41.81	42.30	42.23	43.77	43.71	42.16	42.04
10	---	---	40.62	40.44	41.94	41.87	42.37	42.27	43.72	43.68	42.20	42.12
11	---	---	40.61	40.53	41.88	41.74	42.37	42.32	43.72	43.67	42.22	42.16
12	---	---	40.62	40.54	41.74	41.61	42.45	42.32	43.76	43.69	42.21	42.17
13	---	---	40.61	40.47	41.68	41.59	42.54	42.43	43.76	43.70	42.23	42.16
14	---	---	40.55	40.40	41.69	41.61	42.59	42.50	43.71	43.50	42.55	42.18
15	---	---	40.43	40.26	41.73	41.65	42.63	42.56	43.51	43.45	42.26	42.18
16	---	---	40.50	40.30	41.75	41.68	42.69	42.61	43.55	43.46	42.37	42.24
17	---	---	40.50	40.42	41.68	41.51	42.72	42.66	43.58	43.53	42.26	42.20
18	---	---	40.58	40.46	41.57	41.52	42.82	42.70	43.58	43.53	42.20	42.13
19	---	---	40.63	40.51	41.57	41.52	42.90	42.78	43.57	43.53	42.17	42.12
20	---	---	40.51	40.31	41.60	41.52	42.98	42.87	43.57	43.52	42.17	42.11
21	---	---	40.57	40.45	41.64	41.56	43.07	42.95	43.55	43.33	42.16	42.12
22	---	---	40.62	40.42	41.63	41.55	43.19	43.06	43.33	43.18	42.13	42.09
23	---	---	40.67	40.52	41.60	41.56	43.29	43.18	43.41	43.28	42.10	41.93
24	---	---	40.76	40.58	41.63	41.53	43.33	43.26	43.44	43.38	41.96	41.92
25	---	---	40.93	40.74	41.94	41.61	43.30	43.25	43.42	43.37	41.96	41.91
26	---	---	41.06	40.87	41.81	41.71	43.39	43.24	43.39	43.26	41.97	41.91
27	---	---	41.18	41.00	41.90	41.78	43.54	43.37	43.26	42.57	41.97	41.91
28	---	---	41.29	41.10	41.96	41.86	43.66	43.51	42.57	42.39	41.96	41.83
29	---	---	41.42	41.21	42.01	41.90	43.63	43.52	42.50	42.35	41.83	41.73
30	---	---	41.48	41.33	42.05	41.99	43.78	43.60	42.56	42.43	41.82	41.69
31	---	---	41.72	41.44	---	---	43.91	43.76	42.62	42.46	---	---
Month	---	---	41.72	40.26	42.05	41.51	43.91	42.01	44.01	42.35	42.60	41.69

	Max	Min
Year	44.01	40.26

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