

Water-Data Report 2011

01490000 CHICAMACOMICO RIVER NEAR SALEM, MD

Upper Chesapeake Basin
Blackwater-Wicomico Subbasin

LOCATION.--Lat 38°30'42.0", long 75°52'47.7" referenced to North American Datum of 1983, Dorchester County, MD, Hydrologic Unit 02060007, on right bank at downstream side of highway bridge on U.S. Route 50, 1.6 mi east of Salem, 3.5 mi northwest of Vienna, and 13 mi upstream from confluence with Transquaking River.

DRAINAGE AREA.--15.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1951 to September 1980, October 2000 to current year.

REVISED RECORDS.--WSP 1332: 1952. WDR US 2006: 2001-05.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.
Gage was previously located downstream of Big Mill Pond dam.

REMARKS.--Records fair except those for estimated daily discharges (backwater, missing data, ice effect), which are poor. Occasional regulation by Big Mill Pond. U.S. Geological Survey gage-height telemeter at station. Diversion for irrigation of about 225 acres above station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft³/s, Aug. 28, gage height, 2.84 ft; minimum discharge, unknown.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	97	9.7	6.5	5.8	11	20	17	8.5	e4.8	3.1	1.4	7.7
2	40	9.9	e6.4	7.3	19	14	16	8.5	e4.6	3.0	1.4	7.1
3	11	9.5	6.3	6.9	20	12	16	8.5	e4.4	2.9	1.4	6.9
4	11	14	6.3	6.2	14	11	15	11	e4.4	2.9	1.4	6.9
5	9.2	22	6.3	6.0	13	11	18	12	e4.8	2.9	1.4	6.8
6	7.6	14	6.2	5.9	13	15	19	9.1	e4.4	2.8	1.4	7.6
7	6.9	11	6.1	6.0	12	34	16	8.5	e4.0	2.7	1.4	9.8
8	6.7	9.7	6.1	6.2	12	23	15	8.5	e3.8	2.7	1.4	15
9	6.6	9.3	6.0	e6.0	11	17	16	8.1	e3.8	2.7	1.3	30
10	6.6	8.9	5.9	5.8	11	20	15	7.7	e3.8	2.6	1.4	21
11	6.5	9.2	6.0	5.7	11	35	14	7.5	e4.0	2.6	1.3	13
12	6.5	9.5	7.5	6.1	12	27	19	7.5	e4.4	2.5	1.3	9.8
13	6.3	8.6	9.8	6.0	12	20	33	7.5	e3.8	2.5	1.3	8.6
14	8.0	8.5	7.7	5.8	12	17	25	7.7	e3.4	2.5	1.5	8.1
15	13	8.6	e7.0	5.8	11	16	19	8.3	e3.2	2.4	1.6	7.9
16	8.4	8.2	e6.3	6.1	11	27	20	8.0	e3.2	2.4	1.7	7.6
17	7.3	7.9	e6.0	6.2	11	27	68	8.1	e3.6	2.3	e1.4	7.4
18	7.2	7.9	e5.7	8.7	11	21	37	8.0	e3.8	2.3	e1.3	7.5
19	7.2	7.8	e5.5	8.5	11	18	24	7.8	e5.2	2.3	e1.3	7.4
20	8.2	7.8	e5.4	7.5	11	16	18	7.7	5.6	2.2	e1.4	7.4
21	10	e7.6	5.2	7.2	11	17	15	7.4	e5.0	2.1	e1.6	7.7
22	8.5	e7.6	5.1	6.8	11	18	12	6.9	e4.4	2.1	1.8	7.9
23	7.8	e7.4	5.2	6.5	11	17	13	7.0	e4.0	2.0	1.7	12
24	7.8	e7.2	5.1	6.3	11	22	12	7.1	e3.6	1.9	1.6	26
25	8.2	e7.2	5.1	7.1	13	20	11	6.8	e3.4	1.9	1.6	18
26	8.8	e7.0	5.4	12	12	18	10	6.2	e3.2	1.9	1.9	13
27	10	e6.8	5.6	21	11	17	9.3	5.7	3.2	1.9	32	12
28	12	e6.6	5.3	17	13	17	9.6	5.4	3.1	1.8	249	16
29	11	6.5	5.2	15	---	16	11	5.3	3.1	1.7	60	19
30	9.4	6.3	5.2	13	---	15	9.2	5.0	3.1	1.6	18	16
31	9.1	---	5.3	12	---	16	---	4.9	---	1.5	9.3	---
Total	383.8	272.2	186.7	252.4	342	594	552.1	236.2	119.1	72.7	406.5	351.1
Mean	12.4	9.07	6.02	8.14	12.2	19.2	18.4	7.62	3.97	2.35	13.1	11.7
Max	97	22	9.8	21	20	35	68	12	5.6	3.1	249	30
Min	6.3	6.3	5.1	5.7	11	11	9.2	4.9	3.1	1.5	1.3	6.8
Cfsm	0.83	0.60	0.40	0.54	0.81	1.28	1.23	0.51	0.26	0.16	0.87	0.78
In.	0.95	0.68	0.46	0.63	0.85	1.47	1.37	0.59	0.30	0.18	1.01	0.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 – 1980, 2001 – 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.8	15.9	20.5	24.6	28.3	31.4	24.7	16.5	14.4	9.47	14.1	10.4
Max	46.8	45.2	65.6	55.5	80.1	64.2	51.8	48.4	71.4	52.3	83.0	45.2
(WY) (1980)	(2004)	(2010)	(1978)	(1979)	(1979)	(1958)	(1978)	(1978)	(2006)	(1975)	(1973)	(2003)
Min	2.37	3.45	5.76	4.03	7.70	10.7	10.4	5.16	3.97	1.26	0.52	2.10
(WY)	(2009)	(2008)	(1969)	(2002)	(2002)	(2009)	(2006)	(2006)	(2002)	(2002)	(2002)	(2008)

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	Calendar Year 2010	Water Year 2011		Water Years 1951 – 1980, 2001 – 2011	
Annual total	6,397.9		3,768.8		
Annual mean	17.5		10.3		18.4
Highest annual mean					31.9
Lowest annual mean					6.86
Highest daily mean	182	Mar 29	249	Aug 28	931
Lowest daily mean	2.2	Jul 1 ^a	1.3	Aug 9 ^b	0.13
Annual seven-day minimum	2.3	Jun 30	1.3	Aug 7	0.21
Maximum peak flow			331	Aug 28	^d 1,840
Maximum peak stage			2.84	Aug 28	5.68
Instantaneous low flow			Unknown		0.13
Annual runoff (cfsm)	1.17		0.688		1.23
Annual runoff (inches)	15.87		9.35		16.68
10 percent exceeds	37		18		35
50 percent exceeds	8.8		7.6		12
90 percent exceeds	2.5		2.1		4.3

^a July 1-3.^b Aug. 9, 11-13, 18 (estimated), 19 (estimated).^c July 6, 7, 1977, result of pumpage for irrigation.^d From rating curve extended above 500 ft³/s.