

01491000 CHOPTANK RIVER NEAR GREENSBORO, MD

Upper Chesapeake Basin
Choptank Subbasin

LOCATION.--Lat 38°59'49.9", long 75°47'08.9" referenced to North American Datum of 1983, Caroline County, MD, Hydrologic Unit 02060005, on right bank at highway bridge (removed), 0.1 mi upstream from Gravelly Branch, 2.0 mi northeast of Greensboro, and 60 mi upstream from mouth.

DRAINAGE AREA.--113 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WSP 1622: 1948. WDR MD-DE-79-1: 1961(P).

GAGE.--Water-stage recorder, concrete control, and crest-stage gage. Datum of gage is 2.73 ft above North American Vertical Datum of 1988.

REMARKS.—No estimated daily discharges. Records good. Diversions for irrigation of about 500 acres upstream from station. U.S. Geological Survey satellite data-collection platform at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1935 is believed to have been higher than that of Aug. 4, 1967, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 30	1345	*4,480	*12.17
Dec 27	2045	1,360	7.41
Jun 8	1530	3,340	10.65
Jun 14	1345	1,160	6.95
Jun 19	1215	3,960	11.49
Jul 13	1115	3,580	10.98

Minimum discharge, 7.8 ft³/s, Oct. 1.

01491000 CHOPTANK RIVER NEAR GREENSBORO, MD—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.0	626	67	243	220	223	177	192	63	230	130	49
2	9.5	311	67	219	195	198	165	177	62	307	357	49
3	10	205	66	198	169	178	151	150	92	495	331	50
4	10	166	65	181	161	161	140	133	88	478	194	45
5	10	144	65	168	156	149	179	122	72	288	147	43
6	9.6	129	63	159	151	185	243	115	63	208	127	41
7	9.1	124	62	153	143	479	216	115	228	173	126	40
8	10	138	144	144	151	440	188	123	2,730	150	123	36
9	11	140	225	137	192	265	169	164	1,710	136	118	37
10	11	129	205	133	203	215	157	251	676	126	188	37
11	10	119	206	128	186	195	147	228	691	122	197	35
12	8.8	111	189	131	200	198	168	346	647	530	146	34
13	8.5	107	158	131	201	276	413	486	463	3,110	129	40
14	9.1	109	141	129	210	284	447	283	983	1,990	175	36
15	9.2	105	133	157	233	223	263	203	747	929	188	35
16	11	100	127	337	212	198	209	173	440	491	139	30
17	11	95	129	599	197	182	184	154	304	318	115	31
18	10	90	135	433	191	166	167	134	550	233	104	30
19	13	87	139	282	159	195	159	125	3,400	198	95	32
20	21	86	130	230	158	233	214	124	1,730	173	83	33
21	16	85	239	208	152	216	273	120	645	153	77	32
22	13	81	461	189	142	194	222	113	394	137	79	44
23	12	78	325	166	141	173	185	105	284	303	76	44
24	11	75	216	152	143	159	167	105	262	281	67	39
25	11	73	194	140	135	169	154	99	241	192	58	36
26	16	70	209	135	132	232	140	89	206	152	59	33
27	37	71	907	130	182	363	128	82	226	134	59	30
28	25	76	919	126	245	301	122	78	257	123	61	30
29	378	72	484	133	---	230	131	80	250	115	64	31
30	3,780	68	383	140	---	200	169	74	208	102	63	31
31	2,060	---	306	172	---	183	---	66	---	91	57	---
Total	6,568.8	3,870	7,159	5,983	4,960	7,063	5,847	4,809	18,712	12,468	3,932	1,113
Mean	212	129	231	193	177	228	195	155	624	402	127	37.1
Max	3,780	626	919	599	245	479	447	486	3,400	3,110	357	50
Min	8.0	68	62	126	132	149	122	66	62	91	57	30
Cfs/m	1.88	1.14	2.04	1.71	1.57	2.02	1.72	1.37	5.52	3.56	1.12	0.33
In.	2.16	1.27	2.36	1.97	1.63	2.33	1.92	1.58	6.16	4.10	1.29	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	61.8	100	168	194	220	267	209	134	115	66.2	89.0	60.3
Max	402	476	736	559	646	826	649	457	624	421	829	425
(WY)	(1972)	(1957)	(2010)	(1978)	(1979)	(1994)	(1983)	(1989)	(2013)	(1975)	(1967)	(1999)
Min	9.85	10.9	13.3	17.9	31.2	43.7	47.2	30.3	19.5	8.23	5.31	9.38
(WY)	(1966)	(1966)	(1966)	(1966)	(2002)	(1966)	(1966)	(1977)	(1986)	(2012)	(1966)	(1987)

01491000 CHOPTANK RIVER NEAR GREENSBORO, MD—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1948 - 2013	
Annual total	39,444.31		82,484.8			
Annual mean	108		226		139	
Highest annual mean					305	2003
Lowest annual mean					26.6	1966
Highest daily mean	3,780	Oct 30	3,780	Oct 30	^e 8,700	Aug 28, 2011
Lowest daily mean	0.91	Jul 31	8.0	Oct 1	^e 0.35	Aug 19, 2002
Annual seven-day minimum	3.5	Jul 12	9.5	Oct 1	0.64	Aug 17, 2002
Maximum peak flow			4,480	Oct 30	8,880	Aug 28, 2011
Maximum peak stage			12.17	Oct 30	^a 17.96	Aug 28, 2011
Instantaneous low flow			7.8	Oct 1	0.26	Aug 19, 2002 ^b
Annual runoff (cfs)	0.954		2.00		1.23	
Annual runoff (inches)	12.99		27.15		16.77	
10 percent exceeds	197		380		290	
50 percent exceeds	65		149		77	
90 percent exceeds	7.4		33		16	

^e Estimated.^a From floodmarks.^b Aug. 19, 20, 2002.