02056900 BLACKWATER RIVER NEAR ROCKY MOUNT, VA

Roanoke Basin
Upper Roanoke Subbasin

LOCATION.--Lat 37°02′42″, long 79°50′40″ referenced to North American Datum of 1927, Franklin County, VA, Hydrologic Unit 03010101, on right bank 45 ft downstream from bridge on State Highway 122, 3.0 mi northeast of Rocky Mount, and 4.1 mi upstream from Maggodee Creek.

DRAINAGE AREA.--115 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.45 ft NGVD of 1929.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

REMARKS.--Records good except those for estimated daily discharges, which are fair. American Electric Power gage-height transmitter at station with recorder at Roanoke. Maximum discharge, 20,800 ft^3/s, from rating curve extended above 7,000 ft^3/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location by the Virginia Department of Environmental Quality - Water Division.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 16	0030	2,540	7.85
Jan 31	0315	*4,150	*10.54
Jun 6	2000	2,000	6.87
Jul 4	0700	2,830	8.36
Jul 12	0415	2,140	7.13

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 02056900, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02056900.2013.pdf

02056900 BLACKWATER RIVER NEAR ROCKY MOUNT, VA—Continued

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

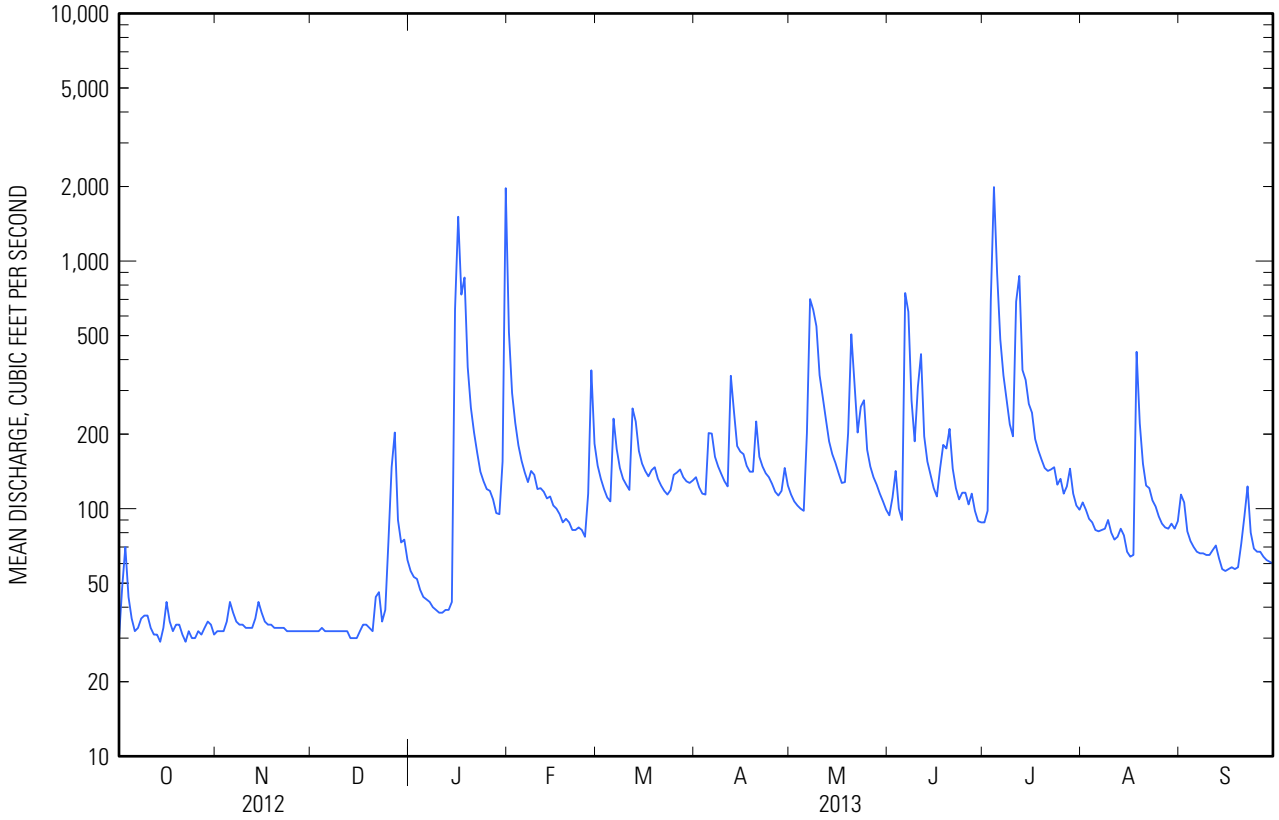
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30	32	32	56	517	149	134	114	94	88	106	114
2	48	32	32	53	293	132	122	107	111	98	99	106
3	70	32	32	52	222	120	115	103	142	690	91	81
4	44	35	33	47	180	111	114	100	100	1,990	88	74
5	36	42	32	44	156	107	202	98	90	893	82	70
6	32	38	32	43	140	231	201	202	743	483	81	67
7	33	35	32	42	128	174	162	702	624	345	82	66
8	36	34	32	40	142	146	148	635	274	275	83	66
9	37	34	32	39	137	132	138	545	187	219	90	65
10	37	33	32	38	120	125	129	346	310	196	80	65
11	33	33	32	38	121	119	123	282	421	686	75	68
12	31	33	32	39	117	254	344	229	196	871	77	71
13	31	36	30	39	110	225	246	187	155	363	83	63
14	29	42	30	42	112	171	179	166	137	331	78	57
15	33	38	30	637	103	152	170	153	121	265	67	56
16	42	35	32	1,510	100	142	166	139	112	244	64	57
17	35	34	34	732	95	135	149	127	145	191	65	58
18	32	34	34	858	88	143	141	128	181	172	430	57
19	34	33	33	373	91	147	141	202	175	158	221	58
20	34	33	32	256	88	132	225	506	210	146	152	72
21	31	33	44	203	82	124	162	322	145	142	124	93
22	e29	33	46	168	82	118	148	e203	121	144	121	123
23	e32	32	35	141	84	114	139	258	109	147	108	80
24	30	32	39	129	82	119	134	274	116	125	102	69
25	30	32	74	120	77	137	126	173	116	132	93	67
26	32	32	147	118	115	140	117	148	104	115	87	67
27	31	32	203	109	362	144	113	134	115	123	84	64
28	33	32	90	96	183	134	118	125	98	145	83	62
29	35	32	73	95	---	129	146	115	89	115	87	61
30	34	32	75	155	---	127	124	107	88	103	83	60
31	31	---	62	1,970	---	130	---	99	---	99	89	---
Total	1,085	1,020	1,528	8,282	4,127	4,463	4,676	7,029	5,629	10,094	3,255	2,137
Mean	35.0	34.0	49.3	267	147	144	156	227	188	326	105	71.2
Max	70	42	203	1,970	517	254	344	702	743	1,990	430	123
Min	29	32	30	38	77	107	113	98	88	88	64	56
Cfsm	0.30	0.30	0.43	2.32	1.28	1.25	1.36	1.97	1.63	2.83	0.91	0.62
In.	0.35	0.33	0.49	2.68	1.33	1.44	1.51	2.27	1.82	3.27	1.05	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	88.5	115	123	155	155	204	212	135	129	85.3	66.6	93.0
Max	544	584	392	393	495	585	821	346	416	326	248	375
(WY)	(1977)	(1986)	(2010)	(2010)	(1998)	(1993)	(1987)	(1978)	(1992)	(2013)	(2003)	(1979)
Min	17.3	21.9	34.2	42.0	39.6	60.1	56.2	53.6	17.1	20.6	12.4	16.7
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(1981)	(2002)	(1981)	(2002)	(2008)	(1981)	(2008)

02056900 BLACKWATER RIVER NEAR ROCKY MOUNT, VA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1977 - 2013	
Annual total	30,267		53,325			
Annual mean	82.7		146		130	
Highest annual mean					234	1987
Lowest annual mean					37.1	2002
Highest daily mean	1,010	May 15	1,990	Jul 4	5,410	Nov 5, 1985
Lowest daily mean	18	Sep 1[a]	29	Oct 14[b]	2.7	Aug 25, 2008
Annual seven-day minimum	19	Sep 11	31	Oct 21	3.4	Aug 20, 2008
Maximum peak flow			4,150	Jan 31	20,800	Nov 5, 1985
Maximum peak stage			10.54	Jan 31	21.92	Nov 5, 1985
Instantaneous low flow			28	Oct 14	2.6	Aug 25, 2008
Annual runoff (cfsm)	0.719		1.27		1.13	
Annual runoff (inches)	9.79		17.25		15.35	
10 percent exceeds	142		257		227	
50 percent exceeds	69		104		84	
90 percent exceeds	27		32		31	

[a] Also Sept. 15, 16, 2012.
[b] Also Oct. 22, 2012.