

KANAWHA RIVER BASIN

03173000 WALKER CREEK AT BANE, VA

LOCATION.--Lat 37°16'05", long 80°42'35", Giles County, Hydrologic Unit 05050002, on left bank at Bane, 0.2 mi downstream from bridge on State Highway 100, 0.2 mi downstream from Sugar Run, and at mile 7.9.

DRAINAGE AREA.--305 mi².

PERIOD OF RECORD.--March 1938 to current year.

REVISED RECORDS.--WSP 1143: 1939(M), 1940, 1944, 1946. WSP 1305: 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 1,665.92 ft above sea level. Prior to Aug. 1, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good except for period with ice effect Jan. 3-7, which is fair. U.S. Army Corps of Engineers satellite gage-height telemeter at station. Maximum discharge, 25,000 ft³/s, from rating curve extended above 7,200 ft³/s on basis of slope-area measurements at gage heights 16.50 ft and 19.28 ft. Minimum discharge, 15 ft³/s, Dec. 21, 1958, gage height, 2.42 ft, result of freezeup. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1878 reached a stage of about 23.5 ft, discharge, 40,400 ft³/s, from rating curve extended as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	2100	*2,820	*8.15	No peak greater than base discharge.			

Minimum discharge, 30 ft³/s, Sep 4, gage height, 2.67 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	39	42	51	145	196	157	439	117	51	49	33
2	53	40	41	50	230	239	166	360	109	50	46	32
3	48	45	40	e50	424	252	156	303	103	48	44	31
4	45	44	40	e62	364	392	147	259	97	46	43	30
5	44	46	41	e80	295	387	139	227	91	44	40	71
6	44	47	41	e71	246	443	132	205	86	42	38	201
7	46	44	42	e68	220	644	126	199	82	39	35	166
8	67	42	49	67	205	588	121	718	77	40	35	98
9	67	41	62	72	181	468	118	727	73	37	36	71
10	59	41	91	104	159	401	117	527	71	37	34	58
11	52	44	76	134	143	331	280	407	68	39	34	49
12	46	42	61	105	133	291	1030	326	65	53	34	44
13	42	40	66	100	128	273	645	275	62	65	34	41
14	39	43	79	114	115	275	465	1010	61	86	33	40
15	38	44	97	611	108	453	395	1460	59	68	32	39
16	38	44	76	546	103	606	453	782	58	59	32	38
17	37	42	63	275	100	941	399	560	61	54	32	35
18	37	41	57	190	123	1230	343	432	60	51	32	34
19	37	41	53	191	228	1040	295	1210	60	48	32	34
20	36	41	51	183	255	753	269	876	58	50	34	34
21	35	40	50	152	230	600	250	604	57	48	33	38
22	35	40	49	132	203	499	220	451	55	45	33	36
23	35	40	49	163	176	401	200	366	54	44	48	35
24	35	40	53	1080	160	343	189	324	53	48	47	35
25	36	40	53	994	156	301	174	309	52	46	47	34
26	37	44	52	539	145	261	164	247	53	42	54	34
27	37	43	50	357	136	230	176	208	55	41	43	35
28	38	44	49	276	139	206	316	179	55	53	43	43
29	39	45	51	227	---	186	703	158	53	88	40	52
30	39	44	52	187	---	170	558	141	51	58	37	93
31	39	---	52	154	---	157	---	128	---	51	34	---
TOTAL	1330	1271	1728	7385	5250	13557	8903	14417	2056	1571	1188	1614
MEAN	42.9	42.4	55.7	238	188	437	297	465	68.5	50.7	38.3	53.8
MAX	67	47	97	1080	424	1230	1030	1460	117	88	54	201
MIN	35	39	40	50	100	157	117	128	51	37	32	30
CFSM	.14	.14	.18	.78	.61	1.43	.97	1.52	.22	.17	.13	.18
IN.	.16	.16	.21	.90	.64	1.65	1.09	1.76	.25	.19	.14	.20

03173000 WALKER CREEK AT BANE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	128	184	314	447	600	698	546	422	240	139	127	98.1
MAX	721	737	941	1191	1577	1800	1806	1044	1125	735	759	639
(WY)	1990	1980	1973	1996	1957	1955	1987	1971	1992	1938	1949	1989
MIN	34.7	42.4	44.9	44.8	95.6	108	126	115	60.6	41.6	33.7	35.6
(WY)	1964	1999	1956	1956	1942	1988	1986	1941	1988	1988	1988	1955

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1938 - 1999

ANNUAL TOTAL	138745	60270	
ANNUAL MEAN	380	165	326
HIGHEST ANNUAL MEAN			553
LOWEST ANNUAL MEAN			135
HIGHEST DAILY MEAN	4810	Apr 20	14100
LOWEST DAILY MEAN	35	aOct 21	24
ANNUAL SEVEN-DAY MINIMUM	36	Oct 19	28
INSTANTANEOUS PEAK FLOW			25000
INSTANTANEOUS PEAK STAGE			8.15
INSTANTANEOUS LOW FLOW			30
ANNUAL RUNOFF (CFSM)	1.25	.54	1.07
ANNUAL RUNOFF (INCHES)	16.92	7.35	14.53
10 PERCENT EXCEEDS	1000	427	734
50 PERCENT EXCEEDS	97	61	161
90 PERCENT EXCEEDS	40	36	49

- a Also Oct 22-24, 1998.
- b Also Sep 28, 1964.
- c Result of freezeup.
- e Estimated.

