

KANAWHA RIVER BASIN

03175500 WOLF CREEK NEAR NARROWS, VA

LOCATION.--Lat 37°18'20", long 80°51'00", Giles County, Hydrologic Unit 05050002, on right bank at downstream side of bridge on State Highway 724, 2.8 mi southwest of Narrows, and at mile 3.5.

DRAINAGE AREA.--223 mi².

PERIOD OF RECORD.--July 1908 to September 1916, March 1938 to September 1995, October 1995 to September 1997 (annual maximum only), October 1997 to current year.

REVISED RECORDS.--WSP 973: 1940-41(M). WSP 1235: 1912-13, 1915-16. WSP 1505: 1940, monthly and yearly runoff. WSP 1725: 1913(M), 1915-16(M), 1941 calendar year runoff.

GAGE.--Water-stage recorder. Datum of gage is 1,583.83 ft above sea level. Jul. 22, 1908, to Sep. 30, 1916, and Mar. 31 to Nov. 7, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period with ice effect Jan. 2-7, and periods of no gage-height record, Oct. 2-5, 13-15, and Sep. 23-24, which are fair. U.S. Army Corps of Engineers satellite gage-height telemeter at station. Maximum discharge, 12,900 ft³/s, from rating curve extended above 5,700 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge, 8.8 ft³/s, result of freezeup. Minimum gage height, 2.19 ft, Dec. 24, 1943. 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.--Peak discharges greater than base discharge of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 15	1130	*1,340	*5.63	No peak greater than base discharge.			

Minimum discharge, 9.0 ft³/s, Sep 4, gage height, 2.63 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	86	30	30	55	179	274	194	508	92	51	81	15
2	e52	30	30	e52	240	309	197	425	87	41	95	12
3	e44	40	28	e50	275	339	178	359	83	35	75	12
4	e41	50	27	e60	262	560	164	309	77	34	55	10
5	e38	46	28	e78	248	543	155	272	72	33	41	38
6	36	42	30	e75	217	605	144	249	68	30	26	133
7	33	38	31	e84	204	821	136	232	64	29	23	88
8	37	34	39	96	203	696	128	292	61	29	22	58
9	47	33	112	121	184	589	127	312	60	29	23	45
10	50	33	128	323	170	516	131	274	58	37	23	35
11	44	38	91	238	157	424	383	245	55	55	20	28
12	36	41	71	185	147	370	945	215	53	94	17	24
13	e31	45	81	164	142	342	652	196	55	121	13	22
14	e29	40	136	183	132	339	515	684	52	106	19	20
15	e28	38	119	953	123	472	448	719	54	87	24	19
16	28	35	93	767	122	473	432	496	57	72	34	18
17	27	34	79	461	121	727	361	383	63	64	31	19
18	26	32	72	365	178	1130	316	317	66	63	24	18
19	26	31	65	372	289	1140	281	642	60	58	21	18
20	25	31	59	321	297	858	284	429	53	53	27	19
21	25	30	58	274	264	711	270	323	52	59	38	20
22	26	30	59	231	231	629	248	263	48	88	36	19
23	26	30	66	222	203	527	227	226	43	79	32	e19
24	26	29	88	829	186	456	225	227	40	68	26	e19
25	25	29	88	882	181	402	204	234	40	63	29	17
26	26	34	77	588	171	351	192	183	48	95	38	15
27	26	37	75	432	158	309	214	154	49	97	32	18
28	25	38	75	339	168	275	527	135	48	77	29	24
29	26	34	71	277	---	249	766	120	60	106	25	47
30	28	32	72	230	---	222	624	108	63	100	21	108
31	31	---	68	194	---	200	---	99	---	92	17	---
TOTAL	1054	1064	2146	9501	5452	15858	9668	9630	1781	2045	1017	957
MEAN	34.0	35.5	69.2	306	195	512	322	311	59.4	66.0	32.8	31.9
MAX	86	50	136	953	297	1140	945	719	92	121	95	133
MIN	25	29	27	50	121	200	127	99	40	29	13	10
CFSM	.15	.16	.31	1.37	.87	2.29	1.45	1.39	.27	.30	.15	.14
IN.	.18	.18	.36	1.58	.91	2.65	1.61	1.61	.30	.34	.17	.16

03175500 WOLF CREEK NEAR NARROWS, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908-1916, 1938-1995, 1997-1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	110	162	305	438	556	653	488	371	206	135	112	77.5
MAX	621	754	850	1128	1469	1789	1728	1059	748	964	512	576
(WY)	1990	1978	1973	1957	1957	1955	1987	1971	1992	1916	1916	1989
MIN	21.4	28.6	31.1	50.0	122	113	120	99.4	49.3	32.9	26.8	27.4
(WY)	1964	1940	1940	1940	1942	1988	1995	1941	1914	1988	1988	1964

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS	1908 - 1916	1938 - 1995	1997 - 1999
ANNUAL TOTAL	124900	60173				
ANNUAL MEAN	342	165				
HIGHEST ANNUAL MEAN			299			
LOWEST ANNUAL MEAN			475			1972
HIGHEST DAILY MEAN	3410	Feb 18	1140	Mar 19	8380	Apr 5 1977
LOWEST DAILY MEAN	25	aOct 20	10	Sep 4	10	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	26	Oct 19	16	Aug 29	16	Aug 29 1999
INSTANTANEOUS PEAK FLOW			1340	Jan 15	12900	Jan 29 1957
INSTANTANEOUS PEAK STAGE			5.63	Jan 15	b12.55	Jan 29 1957
INSTANTANEOUS LOW FLOW			9.0	Sep 4	c8.8	Dec 25 1953
ANNUAL RUNOFF (CFSM)	1.53	.74				1.34
ANNUAL RUNOFF (INCHES)	20.84	10.04				18.23
10 PERCENT EXCEEDS	910	432				684
50 PERCENT EXCEEDS	119	75				153
90 PERCENT EXCEEDS	32	25				39

- a Also Oct 21, 25, 28, 1998.
- b From floodmark in well; floodmark on downstream side of bridge was 13.8 ft.
- c Result of freezeup.
- e Estimated.

