

JAMES RIVER BASIN

02014000 POTTS CREEK NEAR COVINGTON, VA

LOCATION.--Lat 37°43'44", long 80°02'33", Alleghany County, Hydrologic Unit 02080201, on left bank at downstream side of bridge on State Highway 18, 0.8 mi downstream from Blue Spring Creek, and 5.2 mi southwest of Covington.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--October 1928 to September 1956, October 1965 to current year.

REVISED RECORDS.--WSP 1723: 1935, 1936(M), 1940(M), 1942(M), 1948-49(M), 1951-52(M), 1954(M). WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,273.93 ft above sea level. Prior to Sep. 30, 1956, nonrecording gage at site 1.3 mi downstream at different datum.

REMARKS.--Records good. U.S. Army Corps of Engineers satellite gage-height telemeter at station. Maximum discharge, 15,400 ft³/s, from rating curve extended above 12,000 ft³/s. 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 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 18	0530	*708	*4.35	No peak greater than base discharge.			

Minimum discharge, 17 ft³/s, Aug 17-19, gage height, 1.86 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	21	28	24	19	82	89	124	119	60	27	26	20
2	21	28	23	21	211	91	125	116	56	28	23	19
3	21	32	23	58	284	117	111	109	54	25	22	19
4	21	34	23	62	224	269	102	102	53	22	20	19
5	22	35	24	42	182	213	96	94	49	21	20	136
6	22	33	22	34	150	219	91	89	45	20	19	334
7	24	30	22	33	136	291	86	86	42	20	19	156
8	75	29	28	35	127	256	82	291	40	19	18	92
9	63	29	41	56	106	227	81	274	38	19	19	64
10	37	29	39	85	92	206	89	215	36	19	18	50
11	29	32	30	70	82	175	91	182	35	19	18	42
12	26	32	24	57	77	159	136	156	34	21	18	36
13	24	30	39	56	77	148	132	169	34	23	18	33
14	24	32	57	69	70	157	123	312	32	29	19	31
15	24	30	41	266	64	e344	121	427	32	27	18	32
16	24	29	30	215	61	336	126	314	31	22	19	31
17	24	28	25	135	62	445	113	256	32	21	18	29
18	24	27	23	104	97	654	100	217	32	21	17	27
19	24	25	21	98	149	575	92	240	31	20	17	26
20	23	25	21	84	141	430	94	219	31	19	24	26
21	23	25	20	74	128	382	109	186	31	19	41	28
22	23	25	20	67	112	386	101	162	31	19	34	29
23	24	25	20	118	97	327	99	143	30	19	25	27
24	25	24	21	445	88	285	113	140	28	20	21	25
25	25	23	21	381	85	248	103	136	26	20	31	24
26	25	27	20	240	81	211	99	110	27	20	46	23
27	25	27	19	177	74	185	101	96	26	20	39	147
28	25	28	20	144	74	165	108	85	29	19	31	190
29	27	29	22	120	---	149	121	76	26	30	26	121
30	27	25	21	96	---	135	119	69	25	39	22	505
31	27	---	21	82	---	122	---	64	---	33	20	---
TOTAL	849	855	805	3543	3213	7996	3188	5254	1076	700	726	2341
MEAN	27.4	28.5	26.0	114	115	258	106	169	35.9	22.6	23.4	78.0
MAX	75	35	57	445	284	654	136	427	60	39	46	505
MIN	21	23	19	19	61	89	81	64	25	19	17	19
CFSM	.18	.19	.17	.75	.75	1.69	.69	1.11	.23	.15	.15	.51
IN.	.21	.21	.20	.86	.78	1.94	.78	1.28	.26	.17	.18	.57

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1956, 1966 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	95.0	127	173	248	300	379	290	224	136	66.5	66.3	61.1
MAX	548	766	643	788	725	1078	1184	519	650	288	461	516
(WY)	1990	1986	1949	1937	1998	1955	1987	1971	1972	1938	1940	1989
MIN	20.7	23.8	24.7	29.8	26.9	75.7	80.5	51.4	29.4	22.1	21.9	18.4
(WY)	1940	1940	1940	1956	1934	1988	1986	1934	1934	1966	1930	1968

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1929 - 1956
1966 - 1999

ANNUAL TOTAL		82660		30546								
ANNUAL MEAN		226		83.7					180			
HIGHEST ANNUAL MEAN									320			1973
LOWEST ANNUAL MEAN									77.2			1988
HIGHEST DAILY MEAN				3100	Mar 21		654	Mar 18	8870		Jun 21	1972
LOWEST DAILY MEAN				19	Dec 27		17	aAug 18	15		Dec 17	1930
ANNUAL SEVEN-DAY MINIMUM				20	Sep 14		18	Aug 13	15		Dec 17	1930
INSTANTANEOUS PEAK FLOW							708	Mar 18	15400		Nov 4	1985
INSTANTANEOUS PEAK STAGE							4.35	Mar 18	13.46		Nov 4	1985
INSTANTANEOUS LOW FLOW							17	bAug 17	c13		Nov 29	1930
ANNUAL RUNOFF (CFSM)		1.48					.55		1.18			
ANNUAL RUNOFF (INCHES)		20.10					7.43		15.98			
10 PERCENT EXCEEDS				573			212		397			
50 PERCENT EXCEEDS				63			35		86			
90 PERCENT EXCEEDS				21			20		27			

- a Also Aug 19, 1999.
- b Also Aug 18, 19, 1999.
- c Minimum observed.
- e Estimated.

