

JAMES RIVER BASIN

02038850 HOLIDAY CREEK NEAR ANDERSONVILLE, VA

LOCATION.--Lat 37°24'55", long 78°38'10", Appomattox County, Hydrologic Unit 02080207, on right bank 350 ft downstream from culvert on State Highway 614, 1.0 mi upstream from Holiday Lake, and 5.2 mi southwest of Andersonville.

DRAINAGE AREA.--8.53 mi².

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR VA-72-1: 1967-71(M), 1966-69(P), 1971(P). WDR VA-98-1: 1997.

GAGE.--Water-stage recorder. Datum of gage is 472.97 ft above sea level.

REMARKS.--Records good except for period with ice effect, Jan. 20 to Feb. 2, which is poor. Maximum discharge, 9,640 ft³/s, from rating curve extended above 4,200 ft³/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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 18	0315	*73	*1.97				No peak greater than base discharge.

Minimum discharge, 0.63 ft³/s, Aug. 17, 18, gage height, 0.73 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	2.7	3.5	3.2	e5.4	5.0	4.2	5.0	3.0	2.8	1.5	3.9
2	4.7	7.0	3.3	3.2	e5.5	4.8	4.4	4.7	2.7	2.3	2.5	4.2
3	3.1	5.8	3.2	3.2	5.6	4.4	5.0	4.3	2.3	1.9	1.6	5.5
4	2.8	3.4	3.2	5.1	5.8	4.4	5.6	4.0	2.2	1.8	1.5	6.4
5	2.8	3.0	3.0	6.9	5.7	4.3	4.7	3.9	2.3	1.7	1.3	4.4
6	2.3	2.8	4.3	4.5	5.5	4.1	4.3	3.8	5.8	1.7	1.2	2.9
7	2.1	2.7	3.7	4.1	5.6	4.1	4.1	3.5	3.3	1.5	1.1	2.2
8	2.0	2.6	3.2	3.7	6.1	4.1	7.3	3.2	2.4	1.3	.94	1.7
9	2.0	2.6	3.0	4.7	6.0	4.1	10	3.0	2.0	1.3	.84	1.6
10	2.9	2.7	4.2	17	6.5	4.0	6.6	2.8	1.8	1.2	.91	1.5
11	2.8	2.9	4.5	12	6.9	4.1	5.6	2.5	1.6	1.2	.92	1.4
12	2.3	3.1	3.7	7.2	6.3	5.2	5.1	2.5	1.6	1.9	.82	1.4
13	2.1	2.9	3.9	5.7	5.4	4.2	4.5	4.5	1.6	2.0	.75	1.3
14	2.1	2.9	28	4.9	7.9	3.9	4.7	9.8	2.0	2.4	.75	1.3
15	1.9	2.8	12	4.4	6.5	3.9	4.7	4.0	2.7	1.7	.73	1.3
16	2.0	2.7	7.3	4.4	5.5	4.6	4.7	3.0	2.9	1.4	.71	1.1
17	2.5	5.4	4.0	4.9	7.6	18	2.8	2.1	1.2	.65	1.2	
18	3.0	2.5	4.6	3.9	27	5.0	51	2.6	2.0	1.2	1.1	1.2
19	2.4	2.5	4.2	3.9	24	4.5	24	2.4	3.1	1.2	1.1	4.8
20	5.4	2.7	4.3	e3.9	13	5.7	13	3.0	4.4	3.3	.84	3.0
21	5.0	2.7	4.7	e3.5	9.0	21	10	4.1	2.5	2.0	.81	1.9
22	3.5	2.9	5.3	e3.0	7.2	11	7.5	16	2.2	1.5	.76	1.5
23	3.1	2.9	4.5	e3.2	6.4	8.0	6.4	6.8	1.8	1.5	.72	2.1
24	2.8	2.9	4.1	e3.5	5.8	6.6	5.7	4.5	1.5	2.2	.91	2.1
25	2.6	3.0	4.0	e4.5	5.4	6.0	12	3.6	1.5	1.9	.93	5.3
26	2.6	15	5.6	e5.0	5.2	5.9	10	3.3	1.4	1.9	.78	15
27	2.5	12	3.7	e5.6	5.2	5.7	8.2	3.0	2.1	1.5	1.7	4.2
28	2.5	6.1	3.5	e5.0	6.3	6.1	7.0	4.7	3.0	1.5	5.6	2.6
29	2.5	4.5	3.4	e4.8	5.1	5.1	6.4	6.5	6.9	3.5	2.5	2.1
30	2.5	3.9	3.2	e5.4	---	4.7	5.5	4.5	3.9	1.9	3.5	1.9
31	2.5	---	3.2	e5.2	---	4.4	---	3.5	---	1.5	3.5	---
TOTAL	93.2	118.7	157.7	158.6	220.7	176.5	270.2	135.8	78.6	55.9	43.47	91.0
MEAN	3.01	3.96	5.09	5.12	7.61	5.69	9.01	4.38	2.62	1.80	1.40	3.03
MAX	9.9	15	28	17	27	21	51	16	6.9	3.5	5.6	15
MIN	1.9	2.5	3.0	3.0	4.9	3.9	4.1	2.4	1.4	1.2	.65	1.1
CFSM	.35	.46	.60	.60	.89	.67	1.06	.51	.31	.21	.16	.36
IN.	.41	.52	.69	.69	.96	.77	1.18	.59	.34	.24	.19	.40

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.03	7.47	8.72	11.2	12.7	14.0	11.7	9.71	8.18	4.55	4.51	6.26
MAX	25.6	32.3	25.6	30.5	36.9	37.9	32.6	36.0	70.2	15.3	24.9	36.8
(WY)	1972	1986	1974	1978	1998	1994	1973	1971	1972	1972	1973	1996
MIN	1.23	2.40	2.16	2.40	5.38	4.12	4.37	2.93	1.63	.61	.58	.81
(WY)	1987	1982	1989	1989	1989	1981	1967	1981	1966	1966	1987	1970

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1966 - 2000
ANNUAL TOTAL	1932.89	1600.37	
ANNUAL MEAN	5.30	4.37	8.77
HIGHEST ANNUAL MEAN			18.6
LOWEST ANNUAL MEAN			3.28
HIGHEST DAILY MEAN	102	Jan 24	1740
LOWEST DAILY MEAN	.33	Aug 19	Jun 21 1972
ANNUAL SEVEN-DAY MINIMUM	.40	Aug 13	aJul 25 1966
INSTANTANEOUS PEAK FLOW			.20 Sep 6 1966
INSTANTANEOUS PEAK STAGE			9640 Jun 21 1972
INSTANTANEOUS LOW FLOW			.10 Sep 11 1966
ANNUAL RUNOFF (CFSM)	.62	.51	1.03
ANNUAL RUNOFF (INCHES)	8.43	6.98	13.97
10 PERCENT EXCEEDS	8.9	6.9	15
50 PERCENT EXCEEDS	3.9	3.5	5.2
90 PERCENT EXCEEDS	1.0	1.4	1.9

a Also 11 other days in July and Sept. 1966.

b Also Aug. 18, 2000.

e Estimated.

