

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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good. Maximum discharge, 9,640 ft<sup>3</sup>/s, from rating curve extended above 4,200 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 24	1045	*218	*2.87	No other peak greater than base discharge.			

Minimum discharge, 0.32 ft<sup>3</sup>/s, Aug 19-20, gage height, 0.66 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	1.0	3.3	2.9	3.3	5.3	6.1	15	4.9	3.4	2.7	2.1	.45
2	.99	3.3	2.6	3.1	13	5.0	12	4.7	3.3	3.3	4.4	.41
3	.92	4.9	2.7	23	8.4	4.9	8.3	4.7	3.4	2.6	1.8	.39
4	.86	3.4	2.7	11	6.5	5.7	7.6	4.7	3.2	2.0	1.3	.59
5	.82	2.7	2.6	11	5.5	4.8	6.9	4.5	3.2	1.7	1.1	17
6	.82	2.9	2.6	7.4	5.0	4.9	6.6	4.6	3.1	1.3	.88	9.0
7	.79	2.8	2.5	3.2	4.9	4.7	6.4	4.5	3.0	1.2	.73	5.7
8	2.0	2.7	3.2	3.3	4.8	4.4	6.4	4.2	2.9	1.5	.65	3.6
9	3.4	2.7	11	4.4	4.4	4.8	6.5	4.1	2.8	1.2	.67	3.1
10	2.4	2.8	4.1	4.7	4.2	5.2	6.2	3.9	2.7	.99	.50	4.9
11	2.2	3.6	2.8	3.2	4.1	5.5	9.1	3.9	2.9	.94	.48	3.1
12	2.1	3.3	2.8	2.9	4.4	4.9	7.7	3.9	2.9	2.6	.46	2.6
13	2.1	2.9	14	2.9	4.6	4.6	6.8	8.2	3.0	4.1	.43	2.1
14	2.2	3.0	6.1	2.7	4.1	13	6.2	41	3.1	4.1	.43	2.1
15	2.1	3.1	2.8	13	3.9	43	6.4	16	2.8	3.3	.42	5.3
16	2.1	3.0	3.0	8.4	3.9	20	6.7	7.4	2.9	2.6	.41	49
17	2.1	3.1	3.4	4.9	4.4	12	6.0	5.9	3.4	2.0	.39	10
18	2.2	3.0	3.2	31	16	8.6	5.9	5.2	3.1	1.9	.37	5.2
19	2.2	2.9	3.1	16	9.8	6.9	5.8	4.9	2.7	1.6	.33	4.1
20	2.3	3.0	3.0	8.8	7.0	7.2	5.9	4.5	2.9	1.4	.60	3.6
21	2.2	3.1	2.9	5.4	5.7	9.1	5.6	4.1	3.7	1.4	.51	3.9
22	2.2	2.8	2.9	4.0	5.0	9.5	5.6	4.4	3.3	1.5	.49	4.6
23	2.4	2.8	2.9	11	4.7	7.3	5.3	4.9	2.9	1.2	.65	3.6
24	2.6	2.9	3.0	102	4.7	7.0	5.3	4.3	2.5	.95	.65	3.2
25	2.6	2.6	2.9	25	4.5	6.6	5.3	4.1	2.4	1.0	1.3	3.0
26	2.6	3.2	3.3	12	4.4	5.8	5.3	4.2	2.7	.74	1.9	2.9
27	2.7	3.0	3.1	8.3	4.3	5.6	5.3	4.0	3.0	.64	1.1	4.7
28	2.8	2.6	2.9	6.3	6.5	5.6	6.1	3.9	3.0	.66	.73	14
29	2.9	2.5	3.5	5.3	---	5.3	6.1	3.8	2.3	.82	.64	16
30	3.0	2.6	2.9	4.8	---	5.0	5.4	3.6	2.0	.74	.48	43
31	3.3	---	3.3	4.4	---	5.2	---	3.5	---	.51	.46	---
TOTAL	64.90	90.5	114.7	356.7	164.0	248.2	203.7	190.5	88.5	53.19	27.36	231.14
MEAN	2.09	3.02	3.70	11.5	5.86	8.01	6.79	6.15	2.95	1.72	.88	7.70
MAX	3.4	4.9	14	102	16	43	15	41	3.7	4.1	4.4	49
MIN	.79	2.5	2.5	2.7	3.9	4.4	5.3	3.5	2.0	.51	.33	.39
CFSM	.25	.35	.43	1.35	.69	.94	.80	.72	.35	.20	.10	.90
IN.	.28	.39	.50	1.56	.72	1.08	.89	.83	.39	.23	.12	1.01

02038850 HOLIDAY CREEK NEAR ANDERSONVILLE, VA--Continued

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.12	7.57	8.83	11.4	12.8	14.2	11.8	9.87	8.34	4.63	4.60	6.36
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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	4541.40		1833.39			
ANNUAL MEAN	12.4		5.02		8.91	
HIGHEST ANNUAL MEAN					18.6	
LOWEST ANNUAL MEAN					3.28	
HIGHEST DAILY MEAN	275	Jan 28	102	Jan 24	1740	Jun 21 1972
LOWEST DAILY MEAN	.79	Oct 7	.33	Aug 19	.20	aJul 25 1966
ANNUAL SEVEN-DAY MINIMUM	.89	Oct 1	.40	Aug 13	.20	Sep 6 1966
INSTANTANEOUS PEAK FLOW			218		9640	
INSTANTANEOUS PEAK STAGE			2.87		14.64	
INSTANTANEOUS LOW FLOW			.32		.10	
ANNUAL RUNOFF (CFSM)	1.46		.59		1.04	
ANNUAL RUNOFF (INCHES)	19.81		8.00		14.19	
10 PERCENT EXCEEDS	26		8.4		15	
50 PERCENT EXCEEDS	5.2		3.3		5.3	
90 PERCENT EXCEEDS	1.8		.87		1.9	

a Also 11 other days in Jul and Sep 1966.  
 b Also Aug 20, 1999.

