

01671100 LITTLE RIVER NEAR DOSWELL, VA

LOCATION.--Lat 37°52'21", long 77°30'48", Hanover County, Hydrologic Unit 02080106, on left bank at downstream side of bridge on State Highway 685, 0.8 mi southwest of Verdon, 2.9 mi west of Doswell, and 9.6 mi upstream from mouth.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR VA-70-1: 1969.

GAGE.--Water-stage recorder. Datum of gage is 132.30 ft above sea level (levels by La Prade Bros., Engineers).

REMARKS.--Records good except for period with ice effect, Jan. 5, 6, which is fair, and period of no gage-height record, Aug. 3 to Sep. 30, which is poor. Maximum discharge, 12,000 ft³/s, from rating curve extended above 7,600 ft³/s on basis of contracted-opening 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.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 23	0600	*466	*4.04	No peak greater than base discharge.			

Minimum daily discharge, 0.29 ft³/s, Aug 13.

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	1.1	2.0	10	11	29	98	51	23	7.3	5.6	.99	e2.1
2	1.5	1.9	7.6	11	37	116	67	22	6.6	3.6	.83	e1.7
3	1.2	2.0	6.9	37	48	100	73	20	6.2	2.7	e.80	e1.5
4	1.2	1.8	6.6	84	51	111	69	20	6.5	2.3	e.65	e1.6
5	1.3	2.3	6.4	e55	48	141	59	19	6.6	1.9	e.52	e1.7
6	1.4	2.3	6.3	e38	40	119	50	18	6.7	1.7	e.44	e4.2
7	1.7	2.2	5.8	31	35	93	45	17	6.1	1.7	e.38	e8.8
8	6.4	2.1	6.3	25	32	70	40	17	5.6	2.6	e.42	e11
9	5.9	2.0	14	22	28	58	39	16	5.3	2.5	e.40	e8.0
10	2.5	2.2	21	22	26	59	45	15	4.8	2.1	e.33	e5.4
11	1.8	2.6	22	19	24	58	44	14	4.3	2.2	e.30	e4.4
12	1.2	3.2	17	17	23	62	44	12	3.7	2.1	e.33	e3.3
13	1.1	2.7	33	17	34	62	43	13	3.4	2.6	e.29	e2.2
14	1.1	3.0	46	17	36	64	38	16	3.6	2.9	e.35	e1.6
15	1.1	4.0	38	21	32	319	35	15	3.4	2.7	e.42	e8.0
16	1.2	2.9	29	28	30	435	34	16	3.0	2.7	e.50	e130
17	1.3	3.2	22	26	28	334	32	16	3.1	2.6	e.59	e235
18	1.2	4.3	17	43	45	189	28	14	3.1	1.7	e.53	e120
19	1.0	4.7	14	128	99	124	26	13	3.5	1.4	e.46	e84
20	1.0	4.3	11	122	120	93	25	12	3.4	1.3	e1.1	e39
21	1.2	5.0	10	79	88	90	24	12	3.6	1.7	e1.3	e18
22	1.1	5.0	9.7	50	62	279	24	11	3.3	1.6	e.84	e13
23	1.1	5.5	9.4	37	46	412	26	16	3.0	1.8	e.95	e15
24	1.1	6.4	9.7	114	38	209	65	41	2.7	1.4	e1.0	e12
25	1.1	6.1	11	405	35	139	86	54	2.5	.95	e1.3	e11
26	1.1	7.8	11	357	35	108	66	34	2.4	.80	e1.7	e9.2
27	1.1	8.1	10	174	35	90	47	20	2.6	.80	e2.6	e7.6
28	1.4	8.1	11	103	42	77	35	14	2.2	1.2	e3.7	e12
29	1.3	8.7	13	69	---	68	29	12	2.5	1.5	e2.9	e105
30	1.3	9.2	14	48	---	59	25	9.9	3.2	1.9	e2.8	e200
31	1.8	---	13	36	---	53	---	8.1	---	1.5	e2.5	---
TOTAL	49.8	125.6	461.7	2246	1226	4289	1314	560.0	124.2	64.05	32.22	1076.3
MEAN	1.61	4.19	14.9	72.5	43.8	138	43.8	18.1	4.14	2.07	1.04	35.9
MAX	6.4	9.2	46	405	120	435	86	54	7.3	5.6	3.7	235
MIN	1.0	1.8	5.8	11	23	53	24	8.1	2.2	.80	.29	1.5
CFSM	.02	.04	.14	.68	.41	1.29	.41	.17	.04	.02	.01	.34
IN.	.02	.04	.16	.78	.43	1.49	.46	.19	.04	.02	.01	.37

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	55.0	74.9	103	150	166	197	146	100	65.6	39.6	49.2	36.9
MAX	264	340	278	491	590	583	391	311	532	288	653	404
(WY)	1980	1973	1997	1978	1998	1994	1993	1990	1972	1975	1969	1975
MIN	1.03	3.25	14.9	20.5	43.8	33.0	43.8	18.1	4.14	2.07	1.04	.70
(WY)	1969	1992	1999	1981	1999	1981	1999	1999	1999	1999	1999	1968

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1962 - 1999
ANNUAL TOTAL	59259.5	11568.87	
ANNUAL MEAN	162	31.7	98.3
HIGHEST ANNUAL MEAN			181 1998
LOWEST ANNUAL MEAN			29.8 1981
HIGHEST DAILY MEAN	2490	Feb 6	9800 Aug 21 1969
LOWEST DAILY MEAN	1.0	aOct 19	.10 Sep 26 1968
ANNUAL SEVEN-DAY MINIMUM	1.1	aOct 19	.21 Sep 30 1968
INSTANTANEOUS PEAK FLOW			466 Mar 23 12000 Aug 21 1969
INSTANTANEOUS PEAK STAGE			4.04 Mar 23 11.09 Aug 21 1969
INSTANTANEOUS LOW FLOW			(c) .10 dSep 25 1968
ANNUAL RUNOFF (CFSM)	1.52	.30	.92
ANNUAL RUNOFF (INCHES)	20.60	4.02	12.49
10 PERCENT EXCEEDS	361	85	194
50 PERCENT EXCEEDS	33	10	51
90 PERCENT EXCEEDS	1.8	1.1	6.1

- a Also Oct 20, 1998.
- b Also Aug 9, 1999.
- c Not determined.
- d Also Sep 26, 1968.
- e Estimated.

