

02069700 SOUTH MAYO RIVER NEAR NETTLERIDGE, VA

LOCATION.--Lat 36°34'15", long 80°07'47", Patrick County, Hydrologic Unit 03010103, on right bank 60 ft downstream from bridge on State Highway 700, 1.2 mi southeast of Nettleridge, 1.4 mi downstream from Russell Creek, and 3.6 mi upstream from Spoon Creek.

DRAINAGE AREA.--84.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1962 to current year.

REVISED RECORDS.--WSP 2104: Drainage area. WDR VA-74-1: 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 871.60 ft above sea level. Prior to Oct. 9, 1964, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good except for period of doubtful gage-height record, Aug. 17, 18, which is fair. Maximum discharge, 20,600 ft<sup>3</sup>/s, from rating curve extended above 2,900 ft<sup>3</sup>/s on basis of contracted-opening measurements at gage heights 18.32 ft and 22.00 ft. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location by the Virginia Department of Environmental Quality - Water Division.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 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)
Sep 30	0300	*1,000	*6.44	No peak greater than base discharge.			

Minimum discharge, 18 ft<sup>3</sup>/s, Aug 19.

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	35	40	42	52	77	85	117	115	54	61	36	34
2	33	40	41	50	176	73	105	91	52	90	33	33
3	32	42	42	114	127	74	86	80	53	72	31	31
4	34	43	42	103	103	106	80	74	49	70	30	30
5	41	43	42	71	91	83	75	69	48	48	29	226
6	44	42	42	77	82	80	72	67	47	41	29	250
7	52	41	42	65	78	76	69	69	45	39	27	116
8	127	41	43	62	75	70	67	77	43	82	26	74
9	61	42	81	66	69	71	66	62	42	46	26	129
10	48	43	52	69	67	71	65	58	39	44	26	145
11	44	95	46	61	65	69	75	55	46	57	25	75
12	43	57	46	58	65	65	75	53	43	67	24	60
13	43	48	321	57	65	63	65	52	39	124	22	54
14	43	46	118	56	60	77	63	513	38	74	24	50
15	41	45	72	73	59	138	72	238	40	64	35	55
16	41	44	62	67	59	114	78	140	44	55	25	60
17	41	44	56	62	60	98	65	110	55	49	e22	47
18	41	43	53	102	115	90	62	95	44	76	e20	44
19	40	43	51	94	90	81	62	262	38	101	19	43
20	41	43	51	77	80	77	61	151	39	57	42	43
21	39	43	49	69	72	98	59	116	48	51	39	45
22	38	42	49	65	67	91	58	100	46	54	28	58
23	38	42	48	78	66	80	56	92	41	44	25	43
24	40	43	88	328	67	79	55	82	37	44	65	41
25	40	42	80	196	66	77	54	75	42	53	267	40
26	40	46	63	126	65	73	54	73	63	40	170	38
27	40	44	63	101	62	69	58	69	49	36	65	63
28	40	42	60	89	83	67	73	64	52	40	51	123
29	40	42	59	80	---	66	111	61	84	87	44	330
30	40	42	55	73	---	65	199	58	46	53	39	500
31	40	---	52	68	---	63	---	56	---	40	35	---
TOTAL	1360	1353	2011	2709	2211	2489	2257	3277	1406	1859	1379	2880
MEAN	43.9	45.1	64.9	87.4	79.0	80.3	75.2	106	46.9	60.0	44.5	96.0
MAX	127	95	321	328	176	138	199	513	84	124	267	500
MIN	32	40	41	50	59	63	54	52	37	36	19	30
CFSM	.52	.53	.77	1.03	.93	.95	.89	1.25	.55	.71	.53	1.13
IN.	.60	.59	.88	1.19	.97	1.09	.99	1.44	.62	.82	.61	1.27

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	100	106	118	143	154	186	181	150	128	108	97.8	92.6
MAX	304	339	240	261	352	423	497	295	435	303	407	417
(WY)	1990	1986	1997	1993	1990	1993	1987	1990	1972	1989	1985	1979
MIN	37.1	45.0	55.5	48.6	77.6	65.0	69.7	56.5	45.4	43.2	28.0	38.9
(WY)	1964	1982	1981	1981	1981	1981	1967	1981	1986	1977	1981	1998

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1963 - 1999

ANNUAL TOTAL	41002	25191	
ANNUAL MEAN	112	69.0	130
HIGHEST ANNUAL MEAN			206
LOWEST ANNUAL MEAN			59.3
HIGHEST DAILY MEAN	853	Jan 28	513
LOWEST DAILY MEAN	32	Oct 3	19
ANNUAL SEVEN-DAY MINIMUM	34	Sep 28	24
INSTANTANEOUS PEAK FLOW			1000
INSTANTANEOUS PEAK STAGE			6.44
INSTANTANEOUS LOW FLOW			18
ANNUAL RUNOFF (CFSM)	1.33	.82	1.54
ANNUAL RUNOFF (INCHES)	18.03	11.08	20.91
10 PERCENT EXCEEDS	210	104	215
50 PERCENT EXCEEDS	80	58	99
90 PERCENT EXCEEDS	40	38	51

e Estimated.

