

POTOMAC RIVER BASIN

01658698 LITTLE CREEK AT MOCKING BIRD ROAD AT TRIANGLE, VA

LOCATION.--Lat 38°31'59", long 77°19'19", Prince William County, Hydrologic Unit 02070010, on right bank, beside Fuller Road, on Quantico Marine Base, 1.2 mi east of U.S. Highway 1, and 1.5 mi upstream from Potomac River.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 60 ft above sea level, from topographic map.

REMARKS.--Records fair except for period of doubtful gage-height record, Oct. 27 to Nov. 1, which is poor. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 341 ft³/s, Aug. 4, gage height, 6.66 ft; minimum discharge, 0.15 ft³/s, Oct. 26, gage height, 0.89 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	1.0	e.55	.30	.27	.75	1.3	1.0	1.4	.96	.86	.74	2.0
2	.80	2.8	.30	.28	.60	1.1	1.0	1.3	2.7	.78	.50	4.3
3	.71	.54	.30	.28	.56	1.0	2.1	1.1	1.4	.78	2.5	2.0
4	2.0	.50	.29	3.4	.57	.98	3.0	1.1	.94	1.5	29	1.0
5	.94	.50	.28	.72	.60	.94	1.3	1.0	.94	.79	5.3	.61
6	.74	.50	.80	.37	.57	.88	1.1	1.0	3.5	.71	14	.55
7	.66	.57	.35	.34	.80	.85	.93	.91	1.1	.68	4.7	.51
8	.64	.69	.40	.30	.71	.86	5.9	.87	.89	.63	1.8	.50
9	.66	.79	.40	.32	.75	.83	6.0	.77	.84	.64	2.8	.55
10	2.2	.87	3.0	5.7	.89	.81	1.7	.93	.79	1.2	1.1	.46
11	1.0	.91	.46	.90	1.1	.79	1.2	.70	.76	.71	.73	.45
12	.73	.92	.35	.55	.77	1.7	1.1	.66	1.5	.66	.56	.44
13	.73	.96	.58	.68	.63	.84	.92	1.6	.85	.65	1.2	.42
14	.68	.85	9.3	1.0	.98	.88	.92	.86	.87	.65	.64	.40
15	.66	.71	.99	1.1	.63	.85	1.1	.63	1.6	9.9	.50	.58
16	.68	.82	.54	1.2	.61	1.5	1.1	.63	1.2	1.0	.48	.42
17	.81	.85	.40	.96	.52	1.7	23	.62	6.1	.71	.47	.43
18	.78	.95	.35	1.0	2.4	.97	8.9	.62	5.6	.63	1.0	.46
19	.83	.89	.32	1.0	1.8	.93	4.1	.95	2.2	4.1	.53	10
20	3.4	.95	.37	1.6	.78	1.0	2.6	.77	1.2	9.4	.45	.73
21	.36	.95	.36	1.0	.65	11	9.7	.78	1.0	.87	.45	.48
22	.46	1.0	.41	1.3	.61	5.1	5.6	5.6	2.0	.66	.41	.39
23	.33	1.0	.30	1.3	.62	2.6	2.7	1.5	.93	.61	.42	.40
24	.24	1.4	.30	1.3	.63	2.1	1.9	1.9	.84	.70	.49	.40
25	.23	1.7	.28	2.1	.65	2.6	19	1.6	.77	.63	.47	17
26	.23	8.9	.30	.91	.59	2.0	6.6	1.1	.72	1.6	.41	11
27	e.23	2.5	.29	.46	2.5	5.2	4.2	1.1	1.4	.69	3.1	1.3
28	e.46	.46	.28	.46	5.7	4.0	2.7	1.2	1.5	5.3	.65	.74
29	e.38	.33	.28	.43	1.5	1.8	2.1	1.4	2.5	1.9	.59	.56
30	e.42	.30	.28	1.4	---	1.3	1.6	1.1	1.5	.72	1.2	.51
31	e.46	--	.27	1.7	---	1.1	---	.99	---	.62	1.1	--
TOTAL	24.45	35.66	23.43	34.33	30.47	59.51	125.07	36.69	49.10	51.28	78.29	59.59
MEAN	.79	1.19	.76	1.11	1.05	1.92	4.17	1.18	1.64	1.65	2.53	1.99
MAX	3.4	8.9	9.3	5.7	5.7	11	23	5.6	6.1	9.9	29	17
MIN	.23	.30	.27	.27	.52	.79	.92	.62	.72	.61	.41	.39

01658698 LITTLE CREEK AT MOCKING BIRD ROAD AT TRIANGLE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS **1999 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.79	1.19	.76	1.11	1.05	2.22	2.69	.86	.97	.97	1.51	2.10
MAX	.79	1.19	.76	1.11	1.05	2.53	4.17	1.18	1.64	1.65	2.53	2.22
(WY)	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000	2000	1999
MIN	.79	1.19	.76	1.11	1.05	1.92	1.22	.54	.31	.29	.49	1.99
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	1999	2000

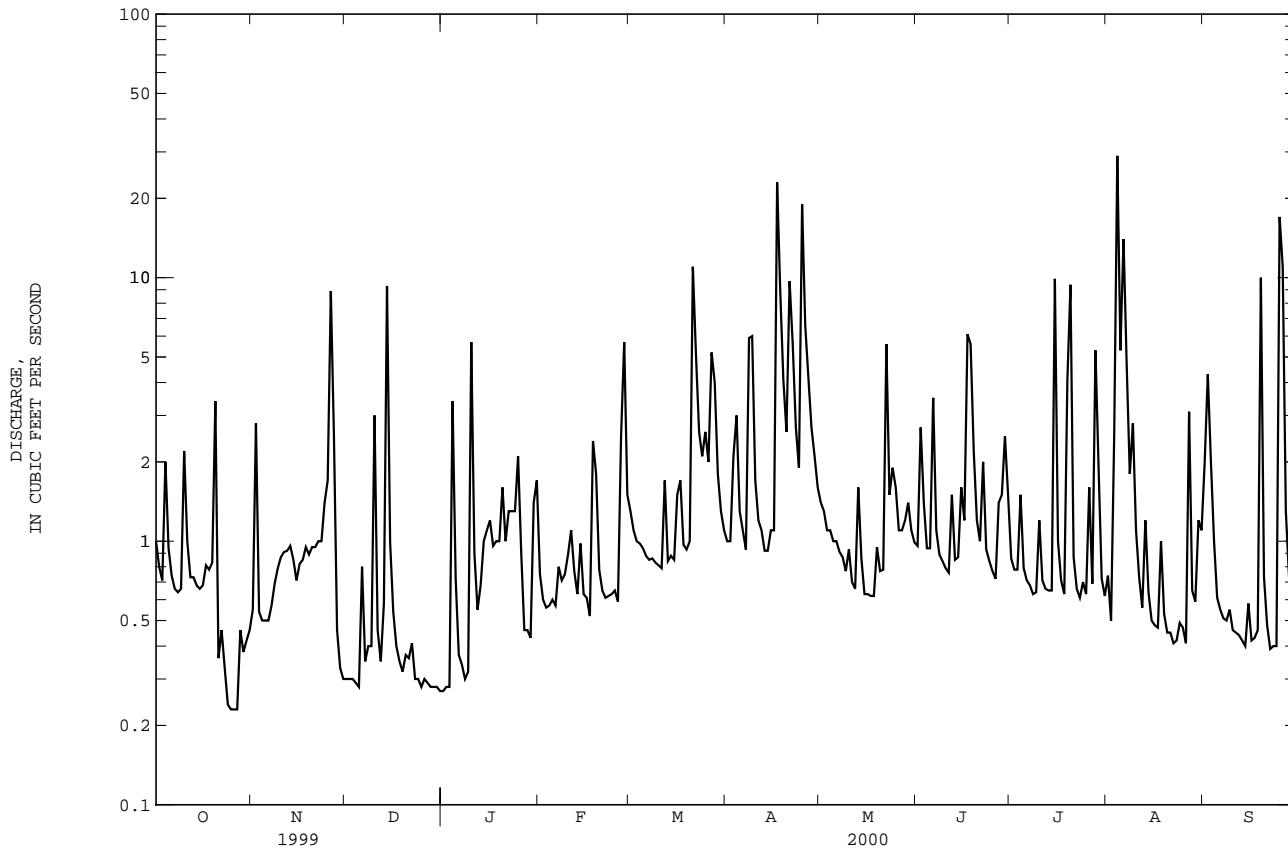
SUMMARY STATISTICS	**FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS **1999 - 2000
ANNUAL TOTAL		607.87	
ANNUAL MEAN		1.66	1.66
HIGHEST ANNUAL MEAN			1.66
LOWEST ANNUAL MEAN			1.66
HIGHEST DAILY MEAN	33 Sep 16	29 Aug 4	33 Sep 16 1999
LOWEST DAILY MEAN	.07 Aug 3	.23 Oct 25	.07 Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	.08 Jul 30	.28 Dec 28	.08 Jul 30 1999
INSTANTANEOUS PEAK FLOW		341 Aug 4	341 Aug 4 2000
INSTANTANEOUS PEAK STAGE		a6.66 Aug 4	a6.66 Aug 4 2000
INSTANTANEOUS LOW FLOW		.15 Oct 26	.04 bAug 2 1999
10 PERCENT EXCEEDS	1.7	3.2	2.7
50 PERCENT EXCEEDS	.46	.85	.73
90 PERCENT EXCEEDS	.19	.39	.23

** Partial year.

a From floodmarks.

b Also Aug. 3, 7, 9, 11, 1999.

e Estimated.



POTOMAC RIVER BASIN

01658698 LITTLE CREEK AT MOCKING BIRD ROAD AT TRIANGLE, VA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1999 to current year.

REMARKS.--Additional samples were collected on April 25, May 22 and July 19 to evaluate nutrient concentration change during storms.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	TEMPER-	TEMPER-	(MM OF HG)	CHARGE, INST. CUBIC FEET PER SECOND	DUCT- ANCE (US/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
			ATURE WATER (DEG C) (00010)	ATURE AIR (DEG C) (00020)					
OCT 20...	1100	ENVIRONMENTAL	13.6	13.5	760	15	111	10.9	100
NOV 24...	0900	ENVIRONMENTAL	13.7	15.0	762	1.2	229	5.8	100
DEC 14...	1000	ENVIRONMENTAL	9.0	7.5	749	33	105	8.4	99
JAN 10...	1200	REPLICATE	8.3	10.5	744	46	89	7.6	100
10...	1215	ENVIRONMENTAL	8.3	10.5	744	39	89	7.6	100
FEB 24...	0830	ENVIRONMENTAL	6.5	6.0	765	.59	380	12.6	100
MAR 14...	0900	ENVIRONMENTAL	6.8	9.5	760	.92	315	13.3	109
APR 19...	1000	ENVIRONMENTAL	10.6	12.0	761	4.4	240	8.6	87
25...	0930	ENVIRONMENTAL	12.3	11.3	753	47	129	10.9	106
25...	0935	ENVIRONMENTAL	12.3	11.3	753	49	129	10.9	106
25...	1550	ENVIRONMENTAL	12.1	12.0	753	29	148	11.0	103
25...	1555	ENVIRONMENTAL	12.1	12.0	753	29	148	11.0	103
MAY 22...	0600	ENVIRONMENTAL	--	--	754	.73	--	--	--
22...	0605	REPLICATE	--	--	754	.76	--	--	--
22...	0835	ENVIRONMENTAL	--	--	754	25	--	--	--
22...	0855	ENVIRONMENTAL	17.1	18.5	754	22	118	8.4	87
JUN 16...	0830	ENVIRONMENTAL	20.5	20.5	756	1.1	218	7.3	82
JUL 17...	1230	ENVIRONMENTAL	21.1	27.5	756	.73	231	5.4	69
19...	1900	ENVIRONMENTAL	--	--	--	.73	--	--	--
19...	1915	REPLICATE	--	--	--	.73	--	--	--
AUG 23...	0915	ENVIRONMENTAL	18.8	23.5	761	.46	208	8.9	96
SEP 18...	0830	ENVIRONMENTAL	20.3	16.0	761	.46	243	9.4	80

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, AMMONIA DIS- SOLVED (00608)	NITRO- GEN, NITRITE DIS- SOLVED (00613)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (00623)	NITRO- GEN, AM- MONIA + NO ₂ +NO ₃ TOTAL (00625)	NITRO- GEN, PHOS- PHORUS DIS- SOLVED (00631)	PHOS- PHORUS DIS- SOLVED (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (00666)	PHOS- PHORUS (00671)
	(MG/L AS N) (00608)	(MG/L AS N) (00613)	(MG/L AS N) (00623)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS P) (00665)	(MG/L AS P) (00666)	(MG/L AS P) (00671)	
OCT 20...	6.7	.084	.014	.40	1.3	.342	.445	.036	.023
NOV 24...	6.3	<.020	<.010	.21	.28	.172	.048	.011	<.010
DEC 14...	6.2	.039	<.010	.43	1.0	.316	.293	.068	.052
JAN 10...	6.6	.114	.012	.30	3.5	.237	1.12	.029	.017
10...	6.6	.116	.012	.29	3.2	.239	1.14	.029	.016
FEB 24...	6.5	<.020	<.010	E.10	.12	.502	.036	<.006	<.010
MAR 14...	6.8	.032	<.010	.11	.13	.359	.038	E.005	<.010
APR 19...	6.2	.040	<.010	.19	<.10	.296	.161	.024	.016
25...	6.7	.070	<.010	.39	1.9	.158	.487	.047	.029
25...	6.7	.077	<.010	.39	1.6	.172	.455	.044	.029
25...	6.6	.032	<.010	.43	.72	.196	.147	.045	.024
25...	6.6	.040	<.010	.47	.70	.211	.145	.038	.026
MAY 22...	--	.116	.011	.44	2.4	.346	.709	.057	.035
22...	--	.121	.010	.49	1.7	.310	.410	.027	.012
22...	--	.115	.012	.44	1.5	.249	.351	.029	.019
22...	6.7	.127	.010	.43	1.3	.230	.371	.039	.024
JUN 16...	6.9	.068	.013	.31	.47	.549	.084	.023	.013
JUL 17...	7.0	.039	<.010	.24	.29	.513	.043	.006	<.010
19...	--	.096	.011	.48	2.4	.465	.685	.065	.042
19...	--	.097	.011	.53	2.2	.474	.677	.064	.047
AUG 23...	7.0	.029	<.010	.16	.17	.509	.045	E.005	<.010
SEP 18...	7.0	<.020	<.010	.12	.16	.570	.018	E.005	<.010

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