

PIANKATANK RIVER BASIN

01669520 DRAGON SWAMP AT MASCOT, VA

LOCATION.--Lat 37°38'01", long 76°41'48", King and Queen County, Hydrologic Unit 02080102, on right bank at up stream side of bridge on State Highway 603, 0.8 mi east of Mascot, 2.1 mi downstream from Church Swamp, and 3.3 mi west of Warner.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--August 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 21.60 ft above sea level.

REMARKS.--Records good except those for period with backwater from beaver dam, Oct. 7-28, and period with ice effect, Jan. 1, which are fair. Maximum discharge, 2,800 ft³/s, from rating curve extended above 2,150 ft³/s. 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 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2000	660	6.29	Sep 17	0500	*6,600	*13.21
Mar 18	0100	603	6.21	Sep 22	0300	965	6.87

Minimum discharge, 0.01 ft³/s, Aug 11.

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	3.2	1.1	22	e100	85	67	107	40	7.5	4.7	.86	1.5
2	1.7	1.1	20	86	80	67	110	37	6.0	3.4	.76	1.4
3	1.1	2.1	19	374	78	71	107	36	4.7	3.2	.59	1.5
4	.89	3.3	18	624	73	80	103	36	3.7	6.3	.45	2.1
5	.83	3.3	17	447	69	77	97	35	2.9	12	.34	55
6	.73	3.3	16	342	65	73	88	36	2.5	7.5	.30	64
7	e.90	3.6	15	243	62	68	86	36	2.0	6.4	.22	57
8	e1.0	2.1	15	182	60	62	83	33	1.6	13	.12	52
9	e1.3	2.1	57	149	58	60	89	31	1.3	11	.06	53
10	e1.2	2.9	71	124	55	64	111	28	1.0	5.5	.02	50
11	e1.0	4.7	77	97	53	65	106	27	.94	22	.03	37
12	e.90	6.3	73	79	52	67	111	24	.85	36	.25	29
13	e.75	6.6	152	70	62	65	105	20	1.4	90	.29	22
14	e.80	7.2	188	63	58	72	100	20	1.5	121	.74	16
15	e.70	7.9	179	93	57	375	96	18	1.6	117	1.9	36
16	e.60	8.7	174	120	54	536	113	16	1.6	92	1.5	4070
17	e.54	10	158	117	54	563	94	16	1.5	75	1.0	6050
18	e.50	8.3	137	119	67	570	82	16	1.7	56	.82	3750
19	e.53	9.0	112	125	78	373	76	14	1.6	38	.59	1990
20	e.44	10	90	132	79	234	70	13	2.1	23	1.8	1080
21	e.35	11	72	114	75	182	66	12	2.9	13	1.6	770
22	e.44	12	60	89	68	193	62	11	3.3	8.7	1.4	842
23	e.46	12	51	76	61	216	61	13	2.9	6.9	1.2	501
24	e.42	12	71	109	56	205	75	16	2.4	5.6	.93	304
25	e.38	13	80	170	53	255	69	20	2.1	6.0	1.2	240
26	e.35	19	80	184	55	256	62	21	1.9	5.8	2.6	203
27	e.36	22	81	191	55	202	58	19	1.8	2.0	5.5	169
28	e.37	24	94	180	56	177	52	17	1.8	1.6	3.7	150
29	.49	24	110	158	---	155	47	15	1.9	1.7	2.5	139
30	.73	24	116	133	---	140	44	12	2.3	1.2	1.9	133
31	.99	---	110	106	---	119	---	9.3	---	.97	1.7	---
TOTAL	24.95	276.6	2535	5196	1778	5709	2530	697.3	71.29	796.47	36.87	20868.5
MEAN	.80	9.22	81.8	168	63.5	184	84.3	22.5	2.38	25.7	1.19	696
MAX	3.2	24	188	624	85	570	113	40	7.5	121	5.5	6050
MIN	.35	1.1	15	63	52	60	44	9.3	.85	.97	.02	1.4
CFSM	.01	.09	.76	1.55	.59	1.71	.78	.21	.02	.24	.01	6.44
IN.	.01	.10	.87	1.79	.61	1.97	.87	.24	.02	.27	.01	7.19

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01669520 DRAGON SWAMP AT MASCOT, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	59.2	86.9	117	161	196	241	188	130	75.7	48.6	51.7	77.1
MAX	293	290	331	340	608	567	450	247	166	106	200	696
(WY)	1997	1986	1997	1993	1998	1994	1983	1998	1984	1996	1992	1999
MIN	.80	9.22	39.5	45.9	63.5	58.8	31.2	22.5	2.38	3.15	.56	.79
(WY)	1999	1999	1989	1989	1999	1985	1985	1999	1999	1993	1998	1997

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1982 - 1999

ANNUAL TOTAL	60991.17	40519.98	
ANNUAL MEAN	167	111	119
HIGHEST ANNUAL MEAN			178 1998
LOWEST ANNUAL MEAN			56.4 1985
HIGHEST DAILY MEAN	2690 Feb 6	6050 Sep 17	6050 Sep 17 1999
LOWEST DAILY MEAN	.01 aAug 25	.02 Aug 10	.01 aAug 25 1998
ANNUAL SEVEN-DAY MINIMUM	.06 Aug 21	.14 Aug 7	e.05 Sep 13 1991
INSTANTANEOUS PEAK FLOW		6600 Sep 17	6600 Sep 17 1999
INSTANTANEOUS PEAK STAGE		13.21 Sep 17	13.21 Sep 17 1999
INSTANTANEOUS LOW FLOW		.01 Aug 11	.00 aAug 25 1998
ANNUAL RUNOFF (CFSM)	1.55	1.03	1.10
ANNUAL RUNOFF (INCHES)	21.01	13.96	14.96
10 PERCENT EXCEEDS	382	175	261
50 PERCENT EXCEEDS	82	31	79
90 PERCENT EXCEEDS	.49	.86	6.3

a Also Aug 26, 1998.
e Estimated.

