

RIDLEY CREEK BASIN

01476480 RIDLEY CREEK AT MEDIA, PA

LOCATION.--Lat 39°54'58", long 75°24'13", Delaware County, Hydrologic Unit 02040202, on right bank 400 ft downstream from bridge on U.S. Highway 1 (Baltimore Pike) at Media.

DRAINAGE AREA.--30.5 mi².

PERIOD OF RECORD.--October 1986 to September 1995, October 1995 to December 1996 (fragmentary), January 1997 to current year.

REVISED RECORDS.--WDR PA-94-1: 1987, 1991, 1992 adjusted monthly and yearly summaries.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 110 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Diversion during entire period of record by Philadelphia Suburban Water Company (formerly Media Water Company). Satellite telemetry at station.

COOPERATION.--Records of diversion provided by Philadelphia Suburban Water Company.

PEAK DISCHARGES 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)
Jan. 3	1345	664	5.40	Mar. 22	0445	858	5.82
Jan. 18	2145	748	5.58	Sept. 16	1815	*8,000	*a15.10

a From floodmark.

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	5.2	12	8.6	e4.7	18	69	31	24	13	9.3	3.8	4.8
2	7.6	13	8.1	6.1	96	31	33	23	13	12	5.0	5.8
3	3.0	13	8.1	31.0	52	26	30	24	15	10	4.3	6.3
4	14	13	8.2	54	29	52	30	24	13	8.9	3.9	6.8
5	14	13	9.2	e15	25	29	36	23	12	7.1	3.9	48
6	7.8	13	8.8	e9.8	22	30	28	22	13	5.6	3.7	103
7	5.4	11	8.1	e7.9	22	48	27	22	11	4.9	3.6	24
8	32	10	9.3	8.4	43	27	27	26	11	5.1	4.0	14
9	45	14	15	29	31	22	33	24	9.4	5.5	4.7	13
10	42	14	9.7	36	24	22	103	20	9.0	7.0	4.5	120
11	14	22	8.3	18	22	21	61	19	10	7.2	4.1	20
12	10	20	8.0	13	26	21	94	18	11	6.7	3.7	12
13	9.0	12	8.1	19	58	21	44	29	13	6.2	4.0	9.3
14	15	11	8.4	26	28	23	36	22	15	5.9	25	8.0
15	9.4	11	7.6	230	23	42	34	19	20	6.6	16	12
16	8.8	11	7.8	76	22	48	40	18	11	5.6	6.6	2860
17	8.4	11	8.1	44	20	61	49	18	12	5.3	7.3	605
18	8.1	10	8.0	326	127	56	35	18	12	5.2	5.8	65
19	8.4	10	7.5	147	55	31	32	36	11	17	5.4	42
20	8.2	11	7.5	39	32	27	33	30	12	29	41	33
21	8.3	13	7.6	29	27	84	32	19	15	12	20	83
22	8.8	12	8.1	32	23	444	38	18	14	8.3	8.6	76
23	9.6	11	7.8	32	e21	76	38	22	10	7.3	4.3	36
24	10	11	e7.6	167	e20	51	45	60	9.1	6.5	4.7	27
25	9.0	11	e7.2	72	20	45	32	38	10	5.6	5.5	24
26	10	32	7.0	35	20	39	29	20	11	5.7	69	21
27	10	17	7.2	27	19	36	27	18	11	5.4	92	20
28	10	9.9	7.8	25	38	38	26	17	9.0	5.1	14	20
29	12	8.0	e8.5	22	---	35	25	16	8.5	5.8	8.3	19
30	12	9.4	e6.0	19	---	31	24	15	8.2	6.2	6.4	81
31	13	---	e5.2	19	---	30	---	14	---	5.1	5.2	---
TOTAL	388.0	389.3	252.4	1897.9	963	1616	1152	716	352.2	243.1	398.3	4419.0
MEAN	12.5	13.0	8.14	61.2	34.4	52.1	38.4	23.1	11.7	7.84	12.8	147
MAX	45	32	15	326	127	444	103	60	20	29	92	2860
MIN	3.0	8.0	5.2	4.7	18	21	24	14	8.2	4.9	3.6	4.8
(†)	4.6	4.4	4.3	4.8	4.5	4.7	4.4	4.7	4.5	2.5	1.3	4.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	19.7	33.9	39.4	54.5	48.8	69.7	53.6	46.3	33.7	33.1	23.4	32.9	
MAX	49.3	62.4	84.0	82.7	74.3	164	108	87.8	68.7	89.6	46.3	147	
(WY)	1990	1987	1987	1990	1988	1994	1993	1989	1989	1989	1989	1999	
MIN	9.11	13.0	8.14	28.2	29.0	32.3	28.6	23.1	11.7	7.84	10.2	8.42	
(WY)	1987	1999	1999	1992	1992	1988	1995	1999	1999	1999	1995	1998	

† Diversion for municipal supply, equivalent in cubic feet per second.

e Estimated.

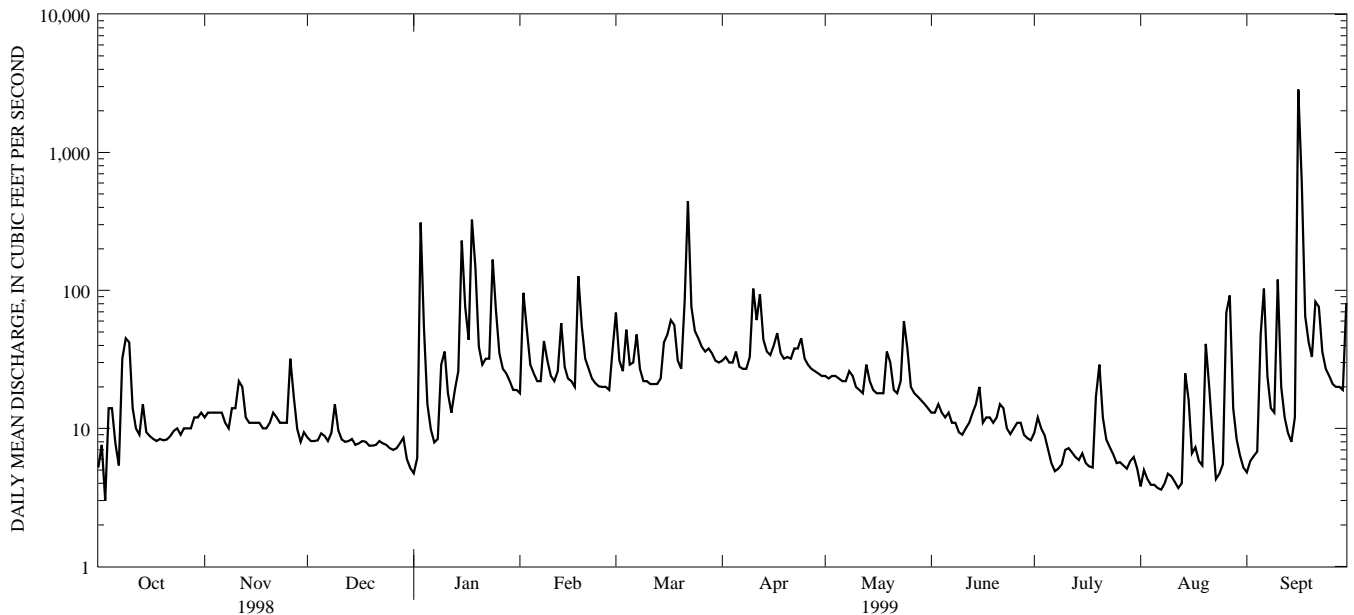
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01476480 RIDLEY CREEK AT MEDIA, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1987 - 1999		
ANNUAL TOTAL	11770.5			12787.2			40.4		
ANNUAL MEAN	32.2			35.0			57.6		
HIGHEST ANNUAL MEAN							24.9		
LOWEST ANNUAL MEAN							1995		
HIGHEST DAILY MEAN	309	Jan	23	2860	Sep	16	2860	Sep	16 1999
LOWEST DAILY MEAN	3.0	Oct	3	3.0	Oct	3	3.0	Oct	3 1998
ANNUAL SEVEN-DAY MINIMUM	5.1	Sep	27	4.0	Aug	3	4.0	Aug	3 1999
INSTANTANEOUS PEAK FLOW				b 8000			b 8000		
INSTANTANEOUS PEAK STAGE				a 15.10			a 15.10		
10 PERCENT EXCEEDS	60			48			72		
50 PERCENT EXCEEDS	21			15			28		
90 PERCENT EXCEEDS	7.3			5.8			10		

a From floodmark.

b From rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999