

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929, 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 Aqua Pennsylvania Water Company (formerly Philadelphia Suburban Water Company). Satellite telemetry at station.

**COOPERATION.**--Records of diversion provided by Aqua Pennsylvania Water Company.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 650 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)
Nov. 17	0800	698	5.47	Mar. 20	2245	873	5.85
Dec. 11	2130	660	5.39	June 20	2000	*2,490	*8.60
Jan. 29	1330	1,900	7.69	Sept. 15	2200	712	5.50
Feb. 23	0000	974	6.06				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	22	17	137	25	44	56	37	80	45	e28	e30
2	5.4	16	16	110	34	187	54	37	48	43	e30	e70
3	4.7	14	16	76	29	178	51	35	37	70	e27	e35
4	5.1	12	14	76	42	71	49	34	295	50	e140	e100
5	6.6	12	15	50	36	150	49	34	156	43	e80	e50
6	4.7	38	20	49	25	368	46	44	72	41	e60	27
7	5.1	18	16	45	28	123	51	37	132	e43	e40	23
8	5.6	14	16	44	25	94	66	74	111	e40	e70	21
9	4.6	12	16	47	30	209	86	45	67	e35	e130	19
10	11	12	15	41	25	115	69	45	55	e35	e240	17
11	142	13	181	36	24	70	158	40	48	e40	e130	17
12	63	51	204	32	22	73	108	37	52	e35	e80	17
13	17	68	86	31	22	95	70	34	78	e40	e50	38
14	11	25	230	30	22	87	58	33	94	e30	e35	55
15	8.0	19	63	29	22	69	53	32	116	e28	e30	266
16	39	34	42	28	16	73	51	35	54	e28	e30	167
17	42	343	35	29	17	88	47	42	47	e26	e30	39
18	15	130	32	28	35	68	49	34	123	e25	e30	33
19	11	43	31	28	29	57	52	31	68	e27	e25	193
20	9.3	31	116	27	29	220	46	28	693	e25	e25	44
21	7.8	26	64	25	32	321	45	35	668	e23	e25	36
22	7.4	31	40	23	370	95	47	34	138	e23	e25	32
23	7.1	32	34	21	606	75	42	33	102	e23	e25	200
24	6.8	22	31	20	192	67	38	39	83	e33	e25	60
25	7.4	20	188	20	87	61	37	37	73	e26	e20	43
26	56	19	89	21	60	62	66	271	65	e22	e20	40
27	20	28	51	20	55	70	46	72	62	e22	e40	39
28	13	23	41	16	49	56	40	60	55	e20	e25	103
29	16	19	37	47	---	59	40	47	51	e20	e25	44
30	63	19	34	24	---	78	39	39	48	e25	e120	35
31	61	---	33	23	---	73	---	36	---	e30	e50	---
TOTAL	680.2	1166	1823	1233	1988	3456	1709	1471	3771	1016	1710	1893
MEAN	21.9	38.9	58.8	39.8	71.0	111	57.0	47.5	126	32.8	55.2	63.1
MAX	142	343	230	137	606	368	158	271	693	70	240	266
MIN	4.6	12	14	16	16	44	37	28	37	20	20	17
(†)	3.6	4.4	4.3	4.4	4.2	4.5	5.0	4.2	4.5	4.3	3.9	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	20.0	32.2	40.4	49.7	49.4	73.5	53.0	45.7	39.8	30.9	24.3	32.5					
MAX	49.3	62.4	84.0	82.7	74.3	164	108	87.8	126	89.6	55.2	147					
(WY)	1990	1987	1987	1990	1988	1994	1993	1989	2003	1989	2003	1999					
MIN	6.24	10.0	8.14	20.3	12.1	30.6	19.4	23.1	11.7	6.42	5.45	8.42					
(WY)	2002	2002	1999	2002	2002	2002	2002	1999	1999	2002	2002	1998					

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

e Estimated.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1987 - 2003	
ANNUAL TOTAL	8328.37		21916.2			
ANNUAL MEAN	22.8		60.0		40.7	
HIGHEST ANNUAL MEAN					60.0	2003
LOWEST ANNUAL MEAN					15.2	2002
HIGHEST DAILY MEAN	343	Nov 17	693	Jun 20	2860	Sep 16 1999
LOWEST DAILY MEAN	0.57	Aug 17	4.6	Oct 1, 9	0.57	Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 14	5.2	Oct 1	1.6	Aug 14 2002
MAXIMUM PEAK FLOW			a2490	Jun 20	a8000	Sep 16 1999
MAXIMUM PEAK STAGE			8.60	Jun 20	b15.10	Sep 16 1999
10 PERCENT EXCEEDS	45		121		73	
50 PERCENT EXCEEDS	14		39		27	
90 PERCENT EXCEEDS	4.7		16		9.5	

a From rating curve extended above 1,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.  
 b From floodmark.

