

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)
Dec. 17	1445	*1,920	*7.73	June 16	1945	766	5.62
Mar. 30	0945	802	5.70				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	17	24	e24	56	44	83	39	47	23	8.9	11
2	23	17	22	e24	47	42	73	38	103	25	8.1	8.5
3	22	17	20	e25	41	41	67	36	50	19	8.4	7.8
4	32	18	18	e24	37	50	63	35	39	18	8.8	30
5	153	18	19	e23	157	66	60	35	34	23	9.9	26
6	35	17	18	e24	95	53	62	31	32	19	9.1	8.5
7	27	17	17	e23	77	54	62	32	31	15	8.0	6.8
8	24	18	17	26	65	59	59	33	28	16	7.8	6.2
9	23	18	16	29	64	57	61	34	27	18	7.4	6.0
10	22	52	15	25	155	48	75	32	27	16	13	5.9
11	22	26	17	24	62	43	72	31	28	16	15	5.7
12	22	20	17	25	51	41	88	32	40	15	22	5.0
13	21	18	15	24	53	152	64	30	27	14	22	4.2
14	20	26	101	23	50	63	56	28	25	13	12	11
15	20	27	40	42	49	57	54	28	26	13	11	11
16	19	21	30	36	55	71	88	27	167	13	12	6.5
17	20	19	842	30	92	104	64	28	219	13	11	5.2
18	25	18	99	28	48	61	64	30	50	14	9.3	5.3
19	25	18	57	168	45	52	56	30	37	15	9.3	5.1
20	20	18	48	162	46	49	52	28	32	12	12	7.7
21	22	20	40	75	44	216	51	65	30	12	8.6	44
22	21	17	e36	49	40	154	50	102	28	12	8.5	11
23	19	17	e33	47	e42	72	48	59	37	11	8.0	7.8
24	18	17	e29	39	42	63	47	38	29	9.3	8.2	6.6
25	19	17	e26	36	59	58	44	33	26	9.6	7.7	40
26	18	166	e26	33	90	57	43	179	24	10	8.0	13
27	18	56	e26	33	53	53	43	199	22	13	7.8	8.2
28	18	29	e25	32	47	51	41	71	21	10	7.7	7.7
29	17	24	e25	30	---	54	40	47	21	10	6.9	6.7
30	17	31	e26	211	---	463	40	40	20	13	6.7	6.0
31	17	---	e25	93	---	107	---	37	---	11	14	---
TOTAL	803	814	1769	1487	1762	2555	1770	1507	1327	450.9	317.1	334.4
MEAN	25.9	27.1	57.1	48.0	62.9	82.4	59.0	48.6	44.2	14.5	10.2	11.1
MAX	153	166	842	211	157	463	88	199	219	25	22	44
MIN	17	17	15	23	37	41	40	27	20	9.3	6.7	4.2
(†)	4.6	4.7	5.9	4.5	4.8	4.6	4.7	4.5	4.1	4.4	4.6	4.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	20.9	33.4	41.1	52.5	50.5	73.9	55.1	46.5	35.3	32.6	23.4	31.9
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	18279		14896.4			
ANNUAL MEAN	49.9		40.8		41.2	
HIGHEST ANNUAL MEAN					57.6	1994
LOWEST ANNUAL MEAN					24.9	1995
HIGHEST DAILY MEAN	1180	Mar 22	842	Dec 17	2860	Sep 16 1999
LOWEST DAILY MEAN	13	Sep 11, 12	4.2	Sep 13	3.0	Oct 3 1998
ANNUAL SEVEN-DAY MINIMUM	14	Sep 6	5.7	Sep 7	4.0	Aug 3 1999
MAXIMUM PEAK FLOW			a1920	Dec 17	a8000	Sep 16 1999
MAXIMUM PEAK STAGE			7.73	Dec 17	b15.10	Sep 16 1999
10 PERCENT EXCEEDS	82		71		73	
50 PERCENT EXCEEDS	31		27		28	
90 PERCENT EXCEEDS	17		8.7		11	

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

