

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)
Mar. 22	0515	*2,220	*8.19	July 27	0215	892	5.89
June 18	1900	789	5.67				

**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	29	20	25	28	e30	48	67	47	31	29	38	25
2	21	91	24	29	e25	46	65	49	31	25	31	19
3	19	100	24	30	e22	43	65	45	29	23	26	18
4	28	34	25	49	e25	42	84	43	27	40	31	17
5	74	27	24	116	e23	41	68	43	27	30	35	15
6	e27	26	65	41	e22	39	61	45	47	22	30	14
7	e24	24	49	36	e23	38	57	41	39	21	e26	14
8	e21	23	30	32	e22	38	56	39	28	19	22	14
9	20	23	28	31	e21	37	101	39	27	17	20	14
10	82	23	41	52	e21	37	77	40	25	e27	18	14
11	49	22	54	65	e20	46	60	56	23	21	17	13
12	27	21	32	38	e30	106	58	39	29	16	e190	13
13	22	21	34	35	e34	51	53	41	50	15	e134	32
14	20	21	214	31	e95	42	52	75	33	e43	88	19
15	18	20	107	28	e80	39	54	39	32	e71	e69	181
16	18	20	54	e27	e70	43	83	35	30	35	e36	28
17	20	19	43	e26	e68	241	85	37	26	46	22	21
18	25	19	38	e25	e55	68	107	35	166	32	21	18
19	19	19	36	e24	e200	52	68	69	e197	23	21	38
20	61	19	43	e26	e140	47	60	74	50	28	19	71
21	44	21	61	e24	e110	280	82	56	33	25	18	25
22	27	20	39	e23	e80	1180	150	48	68	24	16	19
23	36	20	34	e22	64	157	72	52	43	22	16	18
24	27	21	33	e21	71	107	62	74	30	20	17	21
25	24	28	30	e25	76	92	58	73	28	18	17	38
26	22	37	31	e23	69	84	55	44	27	e110	17	364
27	22	198	31	e22	56	78	54	39	24	343	16	63
28	21	46	29	e21	75	222	53	43	e46	e76	20	36
29	21	32	28	e20	54	92	51	39	e89	e49	31	28
30	20	28	28	e20	---	77	48	35	37	e39	19	25
31	20	---	27	e35	---	71	---	33	---	e41	32	---
TOTAL	908	1043	1361	1025	1681	3584	2066	1467	1372	1350	1113	1235
MEAN	29.3	34.8	43.9	33.1	58.0	116	68.9	47.3	45.7	43.5	35.9	41.2
MAX	82	198	214	116	200	1180	150	75	197	343	190	364
MIN	18	19	24	20	20	37	48	33	23	15	16	13
(†)	5.8	4.6	3.8	4.0	4.4	4.3	4.4	4.7	4.6	4.3	1.3	4.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	20.5	34.0	39.8	52.9	49.5	73.2	54.8	46.4	34.7	33.9	24.4	33.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	15069.5		18205			
ANNUAL MEAN	41.3		49.7		41.2	
HIGHEST ANNUAL MEAN					57.6	1994
LOWEST ANNUAL MEAN					24.9	1995
HIGHEST DAILY MEAN	2860	Sep 16	1180	Mar 22	2860	Sep 16 1999
LOWEST DAILY MEAN	3.6	Aug 7	13	Sep 11,12	3.0	Oct 3 1998
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 3	14	Sep 6	4.0	Aug 3 1999
INSTANTANEOUS PEAK FLOW			a2220	Mar 22	a8000	Sep 16 1999
INSTANTANEOUS PEAK STAGE			8.19	Mar 22	b15.10	Sep 16 1999
10 PERCENT EXCEEDS	61		82		73	
50 PERCENT EXCEEDS	23		33		28	
90 PERCENT EXCEEDS	6.0		19		11	

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

