



2005 Water Year  
RIDLEY CREEK BASIN  
01476480 Ridley Creek at Media, PA

Latitude: 39° 54 ' 58"

Longitude: 075° 24 ' 13"

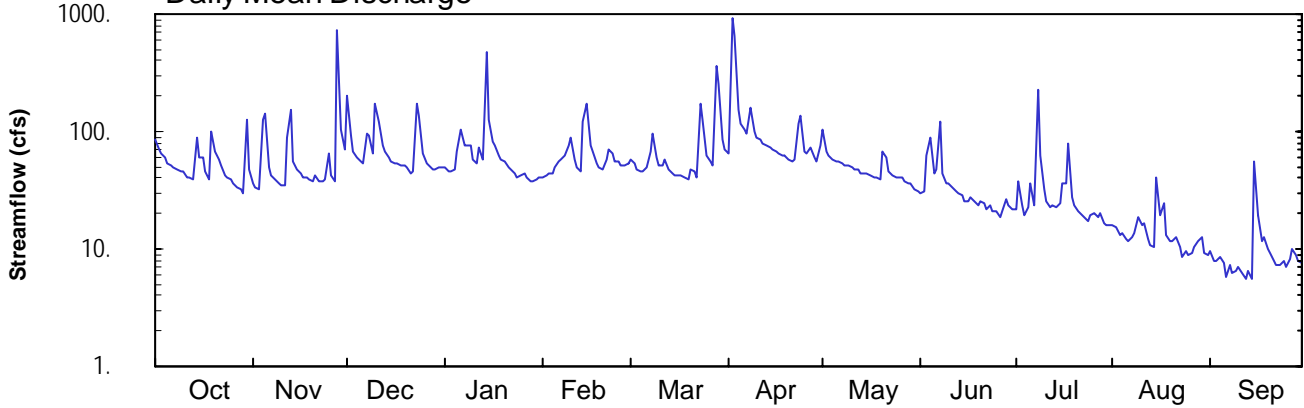
Hydrologic Unit Code: 02040202

Delaware County

Datum: 110 feet

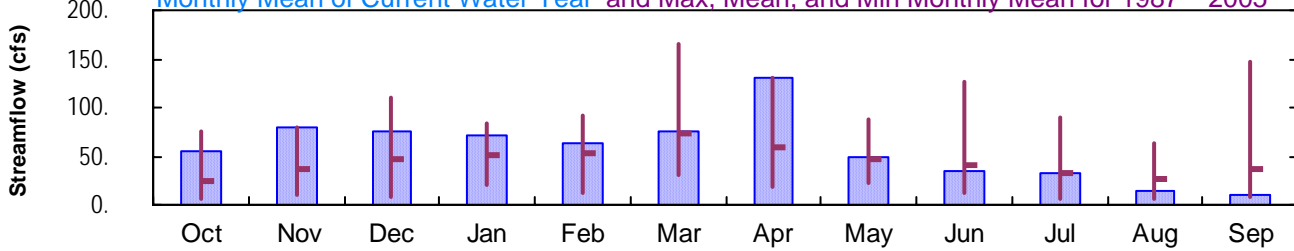
Drainage Area: 30.5 mi<sup>2</sup>

### Daily Mean Discharge

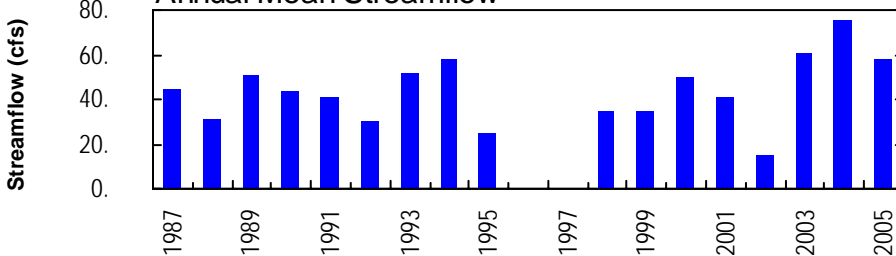


### Monthly Statistics

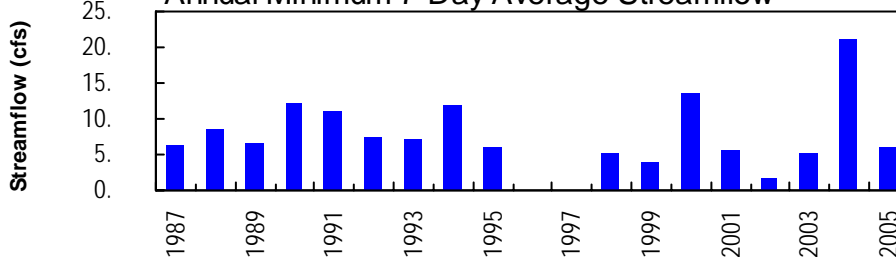
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1987 – 2005



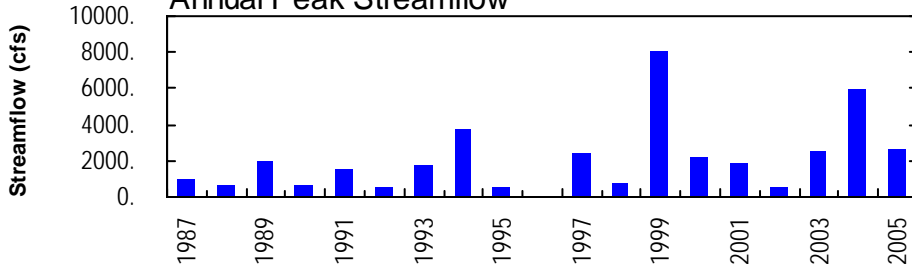
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



Looking downstream  
01476480-Ridley Creek at Media

## 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. 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. 28	1215	1,820	7.36	Mar. 28	2315	981	5.93
Jan. 14	1200	1,010	5.98	Apr. 2	2145	*2,590	*8.54

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	36	202	49	e41	57	66	104	30	22	16	9.5
2	69	34	92	46	e42	53	930	67	30	38	15	7.9
3	65	33	68	46	43	48	643	63	63	23	13	7.9
4	60	125	60	47	45	46	154	59	90	20	13	8.6
5	54	142	57	67	49	46	116	56	44	22	12	7.6
6	51	49	53	104	56	49	104	55	49	36	12	5.7
7	49	42	98	77	59	67	98	54	122	24	13	7.3
8	47	39	94	75	62	96	162	52	44	226	14	6.2
9	46	36	66	76	77	60	101	51	37	62	19	6.4
10	45	35	170	57	89	51	90	49	36	32	16	7.0
11	41	35	122	53	58	51	84	48	34	26	16	6.2
12	40	90	76	72	49	57	79	47	31	23	12	5.7
13	39	151	66	58	46	48	76	44	30	24	11	6.6
14	89	56	60	483	119	45	73	44	28	23	10	5.6
15	61	47	56	128	170	43	69	45	25	24	41	56
16	61	45	54	83	76	42	67	42	25	36	19	19
17	45	41	54	75	68	42	66	41	27	36	25	12
18	40	41	52	62	55	41	63	40	26	81	13	13
19	99	39	52	59	49	40	62	39	24	28	12	9.8
20	69	38	49	e55	48	47	59	68	26	24	12	9.2
21	58	43	44	e50	59	46	55	60	24	21	12	7.8
22	51	38	46	e47	70	41	57	45	22	20	10	7.3
23	43	37	175	e44	65	171	119	43	23	19	8.6	7.3
24	41	39	136	e40	56	126	135	40	21	17	9.6	7.8
25	39	64	64	e42	56	63	69	41	21	20	8.9	7.0
26	37	42	54	e44	52	55	64	41	19	20	9.4	8.3
27	34	37	52	e40	52	51	73	37	21	18	11	9.9
28	32	745	47	e37	53	369	60	37	26	20	12	8.9
29	30	104	48	e38	---	256	57	37	24	17	13	7.8
30	127	69	49	e39	---	85	75	32	22	16	9.4	7.7
31	47	---	49	e40	---	72	---	31	---	16	8.8	---
TOTAL	1693	2372	2365	2233	1764	2364	3926	1512	1044	1034	426.7	297.0
MEAN	54.6	79.1	76.3	72.0	63.0	76.3	131	48.8	34.8	33.4	13.8	9.90
MAX	127	745	202	483	170	369	930	104	122	226	41	56
MIN	30	33	44	37	41	40	55	31	19	16	8.6	5.6
(†)	3.7	4.4	5.6	4.2	4.3	4.1	4.3	4.1	4.2	3.7	3.9	3.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	25.3	37.4	46.6	50.9	52.5	72.8	59.2	46.3	39.9	33.3	25.8	36.6
MAX	75.0	79.1	110	82.7	91.4	164	131	87.8	126	89.6	63.5	147
(WY)	2004	2005	2004	1990	2004	1994	2005	1989	2003	1989	2004	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.

RIDLEY CREEK BASIN

01476480 RIDLEY CREEK AT MEDIA, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	26133		21030.7			
ANNUAL MEAN	71.4		57.6		43.8	
HIGHEST ANNUAL MEAN					75.5	2004
LOWEST ANNUAL MEAN					15.2	2002
HIGHEST DAILY MEAN	1510	Sep 29	930	Apr 2	2860	Sep 16 1999
LOWEST DAILY MEAN	17	Jul 11	5.6	Sep 14	0.57	Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	21	Jul 5	6.2	Sep 8	1.6	Aug 14 2002
MAXIMUM PEAK FLOW			a2590	Apr 2	a8000	Sep 16 1999
MAXIMUM PEAK STAGE			8.54	Apr 2	b15.10	Sep 16 1999
10 PERCENT EXCEEDS	111		95		76	
50 PERCENT EXCEEDS	47		45		29	
90 PERCENT EXCEEDS	30		12		9.8	

a From rating curve extended above 1,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 15.10 ft.  
 b From floodmark.

