

CHRISTINA RIVER BASIN

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA

LOCATION.--Lat 40°03'19", long 75°43'00", Chester County, Hydrologic Unit 02040205, on left bank 1,000 ft downstream from Marsh Creek Dam, 0.2 mi upstream from mouth, and 3.0 mi north of Downingtown.

DRAINAGE AREA.--20.3 mi².

PERIOD OF RECORD.--June 1973 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 280 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated since November 1973 by Marsh Creek Reservoir (station 01480684). Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	170	25	98	59	59	59	88	46	18	11	8.0	5.2
2	143	25	97	60	59	59	78	44	14	17	7.8	5.2
3	121	23	114	59	59	36	162	42	16	15	9.3	5.1
4	101	25	127	59	59	2.3	173	38	21	13	14	5.0
5	85	37	112	60	59	3.6	156	34	21	12	13	5.0
6	75	39	99	60	59	4.0	175	33	22	13	12	5.0
7	39	38	92	60	59	4.5	152	31	26	12	11	5.0
8	11	36	89	60	59	4.5	122	29	23	33	11	5.0
9	13	34	84	60	59	4.4	152	27	22	46	11	5.0
10	13	32	89	60	59	4.5	138	27	20	42	10	5.2
11	13	30	94	60	59	4.4	123	26	18	36	6.1	5.2
12	13	33	90	133	59	4.4	111	25	17	30	4.5	7.4
13	14	43	85	135	59	4.3	102	24	15	25	6.3	8.9
14	19	44	78	31	59	4.2	92	27	15	22	6.1	9.0
15	26	43	73	13	59	4.2	74	29	13	19	5.8	8.9
16	38	41	69	47	59	4.2	29	28	12	18	6.0	8.9
17	39	39	66	73	59	4.2	30	31	11	26	6.5	8.9
18	37	38	63	69	59	4.5	31	33	13	34	6.4	8.9
19	42	36	62	66	59	5.2	38	16	15	35	6.3	8.9
20	46	35	60	64	59	7.0	46	21	9.1	30	6.2	8.9
21	62	36	59	62	59	9.7	43	27	8.7	25	5.9	9.0
22	80	35	60	61	59	11	41	27	8.3	22	5.7	10
23	72	34	61	60	59	18	46	26	8.1	18	5.5	11
24	65	34	60	60	59	34	64	25	7.8	15	5.5	11
25	39	35	60	59	59	38	63	24	7.6	14	5.4	11
26	16	35	60	59	59	38	58	24	7.4	14	5.2	11
27	16	34	60	59	59	38	53	23	7.5	12	5.2	11
28	17	86	60	59	59	50	48	22	8.4	9.9	5.4	11
29	18	145	60	59	---	82	44	22	8.4	9.5	5.5	11
30	24	138	60	59	---	91	44	21	8.4	9.0	5.5	11
31	26	---	60	59	---	101	---	20	---	8.5	5.5	---
TOTAL	1493	1308	2401	1944	1652	739.1	2576	872	421.7	645.9	227.6	241.6
MEAN	48.2	43.6	77.5	62.7	59.0	23.8	85.9	28.1	14.1	20.8	7.34	8.05
MAX	170	145	127	135	59	101	175	46	26	46	14	11
MIN	11	23	59	13	59	2.3	29	16	7.4	8.5	4.5	5.0
(†)	-19.5	+15.1	-21.1	-1.6	-12.6	+34.2	-11.8	-3.2	-1.7	0.0	-1.6	-6.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2005, BY WATER YEAR (WY)

MEAN	20.6	25.0	44.2	42.1	34.7	38.6	43.4	33.3	25.2	21.1	15.2	19.1
MAX	59.5	76.3	148	128	72.4	119	140	83.4	97.9	81.6	36.7	79.4
(WY)	1997	2004	1997	1979	1996	1994	1983	1989	2003	1984	2003	2003
MIN	3.39	3.50	3.01	7.30	0.86	0.83	0.84	0.72	4.06	5.18	6.42	6.47
(WY)	1981	1979	1974	1981	1989	1974	1974	1974	1976	1983	1981	1981

† Change in contents from Marsh Creek Reservoir, equivalent in cubic feet per second.

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01480685 MARSH CREEK NEAR DOWNINGTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1973 - 2005	
ANNUAL TOTAL	15690.7		14521.9			
ANNUAL MEAN	42.9		39.8		30.1	
HIGHEST ANNUAL MEAN					52.9	1984
LOWEST ANNUAL MEAN					10.8	2002
HIGHEST DAILY MEAN	170	Oct 1	175	Apr 6	462	Jun 18 1982
LOWEST DAILY MEAN	6.2	Feb 7	2.3	Mar 4	0.18	Mar 25 2002
ANNUAL SEVEN-DAY MINIMUM	11	Jul 5	4.0	Mar 4	0.28	Mar 20 2002
MAXIMUM PEAK FLOW			249	Jan 12	a560	Dec 14 1983
MAXIMUM PEAK STAGE			3.09	Jan 12	3.70	Dec 14 1983
10 PERCENT EXCEEDS	76		85		66	
50 PERCENT EXCEEDS	37		31		16	
90 PERCENT EXCEEDS	15		5.5		6.5	

a From rating curve extended above 300 ft³/s.

