

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 and concrete control. Elevation of gage is 280 ft above sea level, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	14	63	9.4	36	18	83	2.9	29	9.8	10	10
2	12	14	44	9.4	37	18	89	5.6	37	8.6	10	9.7
3	11	14	13	9.4	37	18	82	7.2	36	7.5	10	9.7
4	11	14	13	11	37	18	46	8.6	33	7.3	10	9.7
5	15	14	13	12	37	18	24	9.9	29	7.8	6.3	5.4
6	15	14	13	12	37	18	26	9.9	27	7.6	9.2	6.8
7	14	14	13	15	37	18	28	10	25	7.0	11	11
8	13	14	13	19	37	18	29	11	22	6.8	10	9.4
9	12	14	13	19	46	18	30	11	20	7.4	10	8.9
10	11	14	13	19	66	18	21	12	18	7.4	10	9.4
11	10	14	13	19	66	16	20	12	17	7.7	5.3	10
12	10	14	13	28	66	16	50	13	16	6.9	1.9	10
13	9.6	14	12	45	66	16	74	14	19	6.3	13	10
14	9.2	14	13	45	66	16	70	13	18	5.7	16	10
15	9.1	14	13	45	66	36	51	13	18	5.4	16	10
16	9.1	14	13	33	66	58	17	12	18	7.5	14	9.4
17	9.1	14	20	13	66	58	45	12	20	9.5	13	8.9
18	10	14	46	13	66	58	68	12	20	9.7	12	8.9
19	30	14	50	14	66	58	67	12	18	10	11	8.9
20	68	14	64	14	66	58	50	12	17	9.0	11	8.9
21	54	14	81	13	66	63	15	16	15	10	11	3.4
22	27	14	73	21	66	67	15	28	14	9.9	12	1.2
23	9.9	14	67	35	48	67	15	38	14	9.4	11	6.7
24	11	14	64	35	18	51	15	38	14	9.2	9.9	11
25	11	14	64	35	18	21	15	34	14	8.4	9.9	16
26	6.4	14	64	35	18	17	15	57	13	8.9	10	47
27	5.8	14	64	35	18	14	35	109	12	10	9.7	63
28	14	42	64	35	18	11	76	117	12	10	9.9	63
29	14	63	46	35	---	11	77	68	11	10	9.7	40
30	14	63	9.4	35	---	29	46	37	10	10	9.2	14
31	14	---	9.4	36	---	57	---	32	---	10	9.8	---
TOTAL	508.2	546	1073.8	754.2	1337	978	1294	787.1	586	260.7	321.8	450.3
MEAN	16.4	18.2	34.6	24.3	47.8	31.5	43.1	25.4	19.5	8.41	10.4	15.0
MAX	68	63	81	45	66	67	89	117	37	10	16	63
MIN	5.8	14	9.4	9.4	18	11	15	2.9	10	5.4	1.9	1.2
(†)	-7.6	-5.0	-4.2	+3.7	-4.5	+19.5	-6.7	+5.4	-3.9	-4.6	+1.8	-7.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

MEAN	19.8	22.9	42.7	41.9	34.2	39.7	43.2	34.1	23.5	20.8	14.3	16.9
MAX	59.5	60.0	148	128	72.4	119	140	83.4	71.2	81.6	31.4	54.3
(WY)	1997	1989	1997	1979	1996	1994	1983	1989	1982	1984	1989	1979
MIN	3.39	3.50	3.01	7.30	.86	.83	.84	.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 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1973 - 2001		
ANNUAL TOTAL	10026.1			8897.1			29.4		
ANNUAL MEAN	27.4			24.4			52.9		
HIGHEST ANNUAL MEAN							11.6		
LOWEST ANNUAL MEAN							1974		
HIGHEST DAILY MEAN	169	Mar	26	117	May	28	462	Jun	18 1982
LOWEST DAILY MEAN	2.7	Jun	3,4	1.2	Sep	22	.20	Sep	7 1999
ANNUAL SEVEN-DAY MINIMUM	5.5	May	30	6.7	Jul	9	.40	Feb	27 1980
MAXIMUM PEAK FLOW				134	May	27	a560	Dec	14 1983
MAXIMUM PEAK STAGE				2.74	May	27	3.70	Dec	14 1983
10 PERCENT EXCEEDS	64			64			65		
50 PERCENT EXCEEDS	15			14			15		
90 PERCENT EXCEEDS	11			9.0			6.5		

a From rating curve extended above 300 ft³/s.

