

CHRISTINA RIVER BASIN

01480675 MARSH CREEK NEAR GLENMOORE, PA

LOCATION.--Lat 40°05'52", long 75°44'31", Chester County, Hydrologic Unit 02040205, on left bank 200 ft north of Pennsylvania Turnpike, 1.2 mi downstream from Lyons Run, 1.8 mi upstream from Black Horse Creek, and 3.0 mi northeast of Glenmoore.

DRAINAGE AREA.--8.57 mi².

PERIOD OF RECORD.--July 1966 to current year.

REVISED RECORDS.--WDR PA-74-1: 1967(M), 1971-72(P) WDR PA-93-1: 1992.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 450 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. Satellite and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1345	*234	*2.64	Aug. 12	2315	177	2.45

**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	4.5	3.0	5.5	e3.1	37	9.9	26	7.9	9.1	3.1	1.4	1.3
2	4.1	3.0	4.4	e3.0	23	9.3	18	7.4	19	3.1	1.3	1.1
3	3.8	3.1	3.4	e3.0	14	9.2	e16	6.9	15	2.9	1.2	1.1
4	4.7	3.3	2.9	e3.0	11	10	e16	6.6	10	3.2	5.0	1.2
5	11	3.4	2.9	e3.1	11	12	e15	6.1	8.1	3.6	3.1	1.2
6	10	3.1	2.8	e3.2	14	12	e18	5.6	7.3	3.5	2.0	1.1
7	6.9	3.0	2.8	e3.5	17	13	16	5.4	6.9	3.0	1.7	1.0
8	5.0	3.0	2.9	e4.1	15	17	15	5.3	6.3	2.9	1.5	1.0
9	4.2	3.5	3.0	e4.5	14	18	15	5.7	5.6	3.5	1.3	1.0
10	3.9	8.8	2.9	e4.5	61	16	16	5.4	5.1	3.4	2.7	1.1
11	3.7	8.8	3.3	e4.2	44	12	17	5.0	5.0	3.5	2.9	1.2
12	3.5	5.4	4.4	e4.1	15	11	22	4.8	e5.3	2.8	32	.99
13	3.3	4.0	3.9	e3.9	12	40	17	4.7	e6.6	2.3	63	.94
14	3.1	5.5	20	e3.7	14	28	13	4.3	9.7	2.2	28	.99
15	3.1	6.2	26	e6.0	17	15	12	4.2	7.5	2.1	9.5	.95
16	3.2	5.0	12	e9.5	17	17	25	4.1	9.9	2.0	4.6	.86
17	3.7	4.0	144	8.9	24	26	22	4.3	16	1.9	2.8	.84
18	6.7	3.5	100	7.3	14	19	25	4.6	12	2.0	2.2	.83
19	8.8	3.2	17	21	10	13	21	4.8	7.5	2.2	2.0	.84
20	7.4	3.1	e9.5	61	10	11	14	4.6	5.6	2.1	2.7	2.2
21	5.3	3.4	e7.0	22	11	30	12	10	4.8	1.8	2.2	5.9
22	4.4	3.1	e6.0	14	8.3	70	12	39	4.9	1.7	2.1	4.5
23	4.0	2.8	e4.8	11	8.4	23	11	38	6.4	1.6	1.9	3.1
24	3.8	2.7	e4.5	8.7	9.2	15	11	13	7.2	1.6	1.9	2.6
25	3.6	2.7	e3.7	7.4	13	13	9.5	7.6	5.8	1.6	1.7	23
26	3.7	16	e3.3	6.6	26	12	8.8	31	4.6	1.7	1.6	20
27	3.8	22	e3.2	6.6	17	11	8.5	85	3.8	1.7	1.5	9.8
28	3.7	10	e3.1	6.2	12	11	8.5	42	3.2	1.5	1.5	4.7
29	3.4	6.1	e3.0	5.5	---	12	7.8	14	3.1	1.5	1.4	2.7
30	3.0	6.7	e3.0	19	---	97	7.5	10	3.2	1.6	1.3	2.1
31	3.0	---	e3.1	42	---	63	---	8.7	---	1.5	1.2	---
TOTAL	146.3	161.4	418.3	313.6	498.9	675.4	455.6	406.0	224.5	73.1	189.2	100.14
MEAN	4.72	5.38	13.5	10.1	17.8	21.8	15.2	13.1	7.48	2.36	6.10	3.34
MAX	11	22	144	61	61	97	26	85	19	3.6	63	23
MIN	3.0	2.7	2.8	3.0	8.3	9.2	7.5	4.1	3.1	1.5	1.2	.83
CFSM	.55	.63	1.57	1.18	2.08	2.54	1.77	1.53	.87	.28	.71	.39
IN.	.64	.70	1.82	1.36	2.17	2.93	1.98	1.76	.97	.32	.82	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	7.23	10.8	14.1	14.3	16.9	21.3	19.3	15.1	10.7	8.42	5.71	6.64
MAX	25.3	22.8	49.9	35.9	44.8	58.4	47.4	36.7	42.2	34.0	22.1	23.8
(WY)	1997	1997	1997	1978	1971	1994	1983	1989	1972	1984	1971	1999
MIN	2.33	3.10	2.07	1.19	5.09	6.58	4.84	4.97	2.30	.92	.93	.88
(WY)	1982	1999	1981	1981	1980	1981	1985	1969	1999	1999	1999	1980

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1966 - 2001		
ANNUAL TOTAL	4598.3			3662.44					
ANNUAL MEAN	12.6			10.0			12.5		
HIGHEST ANNUAL MEAN							23.2		
LOWEST ANNUAL MEAN							4.99		
HIGHEST DAILY MEAN	227	Mar 22		144	Dec 17		444	Jun 22	1972
LOWEST DAILY MEAN	2.5	Aug 29, Sep 12		.83	Sep 18		.25	Aug 6	1999
ANNUAL SEVEN-DAY MINIMUM	2.9	Dec 4		.89	Sep 13		.29	Aug 2	1999
MAXIMUM PEAK FLOW				234	Dec 17		946	Jun 22	1972
MAXIMUM PEAK STAGE				2.64	Dec 17		4.68	Jun 22	1972
INSTANTANEOUS LOW FLOW				.81	Sep 17		.21	Aug 6	1999
ANNUAL RUNOFF (CFSM)	1.47			1.17			1.46		
ANNUAL RUNOFF (INCHES)	19.96			15.90			19.88		
10 PERCENT EXCEEDS	25			21			25		
50 PERCENT EXCEEDS	8.1			5.3			7.6		
90 PERCENT EXCEEDS	3.2			1.6			2.1		

