

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)
Mar. 22	0730	*307	*2.87	No other peak greater than base discharge.			

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	17	5.2	5.6	8.1	e6.0	16	17	12	9.2	19	6.0	3.4
2	10	10	5.9	8.2	e6.0	14	16	13	8.2	11	9.9	4.5
3	6.4	24	6.2	9.7	e6.4	13	16	13	7.2	8.3	13	5.6
4	6.9	17	6.7	13	e6.0	12	30	12	6.4	8.2	27	5.3
5	12	8.9	6.4	21	e5.8	11	25	11	6.2	7.4	16	4.0
6	11	6.5	19	14	e5.6	11	17	12	15	6.6	9.4	3.4
7	8.0	5.7	27	9.7	e5.4	10	15	11	17	5.8	7.5	3.2
8	5.7	5.3	13	8.3	e5.5	10	15	10	11	5.1	6.5	3.1
9	4.8	5.1	9.0	8.0	e6.0	10	33	9.3	8.1	5.3	6.9	3.0
10	18	5.1	11	12	e7.0	10	30	11	6.5	6.3	6.2	2.8
11	30	5.1	15	18	e6.6	12	18	15	5.8	5.6	6.1	2.7
12	15	4.8	11	13	e6.2	25	16	12	9.4	5.1	7.6	2.5
13	8.6	4.8	9.8	10	e6.0	20	14	12	19	4.8	9.6	13
14	6.5	5.0	27	6.0	e8.0	13	13	21	13	4.8	9.2	15
15	5.5	5.2	41	5.8	e16	11	14	14	12	5.2	8.8	18
16	5.0	4.8	20	6.2	e12	11	16	9.8	11	5.1	7.4	15
17	5.1	4.4	12	4.9	e11	37	20	9.1	9.9	5.2	5.8	8.4
18	7.5	4.1	10	3.8	e10	25	29	8.6	18	5.0	5.4	5.0
19	6.3	4.4	9.4	3.6	e23	14	20	17	72	5.7	5.2	8.8
20	8.3	4.9	11	4.6	e20	12	16	40	44	5.9	4.6	14
21	9.3	6.0	17	4.8	e17	41	35	42	15	5.3	4.1	11
22	8.1	5.5	14	4.7	e15	227	72	25	36	5.1	3.9	6.7
23	8.8	5.7	10	e4.5	e20	76	32	28	29	4.5	3.8	4.9
24	7.7	7.3	8.4	e4.3	e30	33	19	31	13	4.6	3.7	4.5
25	6.4	6.9	6.7	e4.0	40	26	17	24	9.9	4.5	3.4	5.4
26	5.5	11	6.2	e5.0	41	23	16	16	8.9	8.3	3.2	43
27	5.2	47	6.9	e4.5	28	21	15	12	12	13	3.1	43
28	5.0	29	7.0	e5.0	38	50	15	11	14	11	2.9	15
29	4.8	11	6.9	e4.8	26	33	15	11	14	7.9	2.5	7.8
30	4.8	7.6	7.0	e4.5	---	21	13	10	26	6.4	2.9	5.5
31	5.0	---	7.9	e6.4	---	18	---	9.6	---	5.8	3.4	---
TOTAL	268.2	277.3	374.0	240.4	433.5	866	639	492.4	486.7	211.8	215.0	287.5
MEAN	8.65	9.24	12.1	7.75	14.9	27.9	21.3	15.9	16.2	6.83	6.94	9.58
MAX	30	47	41	21	41	227	72	42	72	19	27	43
MIN	4.8	4.1	5.6	3.6	5.4	10	13	8.6	5.8	4.5	2.5	2.5
CFSM	1.01	1.08	1.41	.90	1.74	3.26	2.49	1.85	1.89	.80	.81	1.12
IN.	1.16	1.20	1.62	1.04	1.88	3.76	2.77	2.14	2.11	.92	.93	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	7.31	11.0	14.2	14.5	16.8	21.3	19.4	15.2	10.8	8.60	5.70	6.73
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

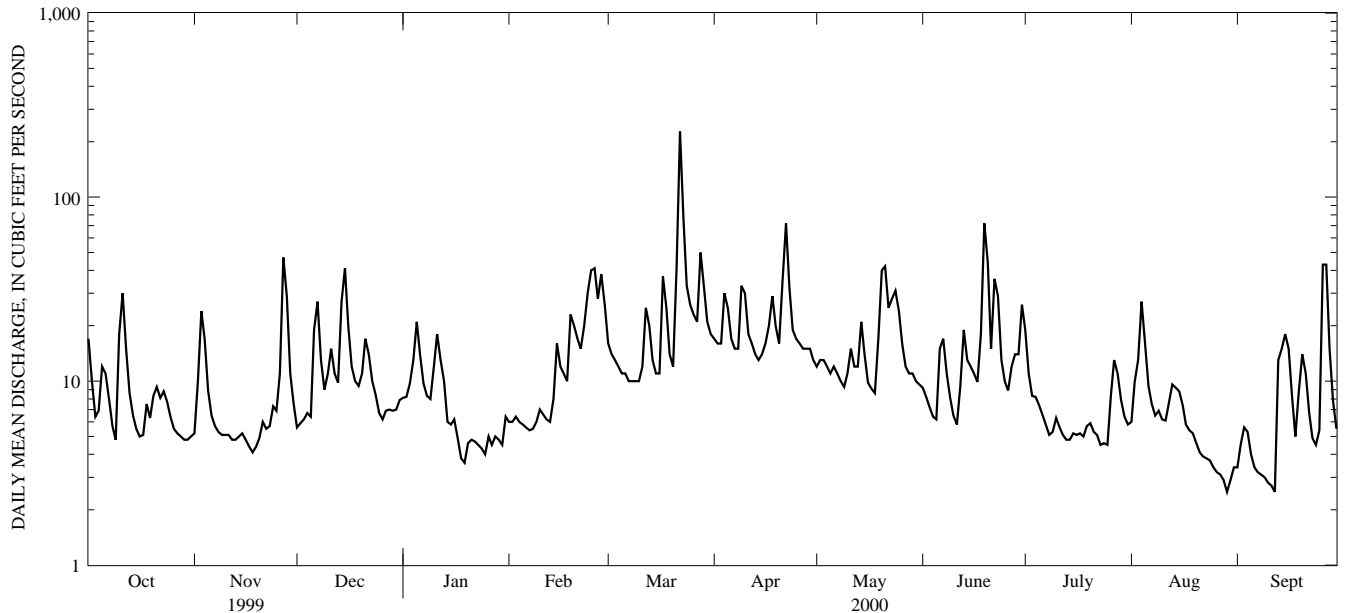
e Estimated.

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01480675 MARSH CREEK NEAR GLENMOORE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	3731.41		4791.8			
ANNUAL MEAN	10.2		13.1		12.6	
HIGHEST ANNUAL MEAN					23.2	
LOWEST ANNUAL MEAN					4.99	
HIGHEST DAILY MEAN	275	Sep 17	227	Mar 22	444	Jun 22 1972
LOWEST DAILY MEAN	.25	Aug 6	2.5	Aug 29, Sept 12	.25	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	.29	Aug 2	3.0	Sep 6	.29	Aug 2 1999
INSTANTANEOUS PEAK FLOW			307	Mar 22	946	Jun 22 1972
INSTANTANEOUS PEAK STAGE			2.87	Mar 22	4.68	Jun 22 1972
INSTANTANEOUS LOW FLOW			1.8	Jan 14	.21	Aug 6 1999
ANNUAL RUNOFF (CFSM)	1.19		1.53		1.47	
ANNUAL RUNOFF (INCHES)	16.20		20.80		19.99	
10 PERCENT EXCEEDS	19		26		25	
50 PERCENT EXCEEDS	6.2		9.4		7.7	
90 PERCENT EXCEEDS	.76		4.6		2.2	

a Result of freeze-up.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000