

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 National Geodetic Vertical Datum of 1929, 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)
May 14	1830	*67	*2.06	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.6	2.9	e1.2	12	2.1	7.3	7.5	3.7	1.7	0.40	1.3
2	1.9	1.7	2.6	e1.2	9.4	2.2	6.0	10	2.7	1.5	0.38	1.5
3	1.8	1.9	2.3	e1.1	6.0	30	5.8	13	2.3	1.3	e0.99	1.1
4	1.7	2.0	2.2	e1.1	4.9	17	7.6	8.4	2.0	1.2	e1.3	0.89
5	1.5	1.9	2.2	e1.3	3.1	5.9	5.8	5.0	2.2	1.1	e0.92	0.68
6	1.4	1.7	2.2	2.4	3.0	4.3	4.5	3.9	7.3	1.0	0.56	0.53
7	1.4	1.6	2.3	6.5	3.4	4.3	3.6	3.4	18	1.0	0.48	0.48
8	1.4	1.7	3.3	5.7	3.7	3.5	3.5	3.0	11	0.98	0.45	0.43
9	1.4	1.7	11	4.6	3.4	3.3	3.6	9.1	5.2	0.95	0.44	0.41
10	1.3	1.6	7.0	4.6	3.4	4.2	4.9	13	3.4	0.98	0.38	0.39
11	1.4	1.7	4.2	14	5.1	3.2	3.9	6.4	2.7	0.83	0.34	0.39
12	1.2	1.6	3.2	18	3.3	2.9	3.5	5.3	2.6	0.76	0.34	0.32
13	1.2	1.7	3.2	10	3.1	5.6	3.6	18	2.7	0.75	0.37	0.31
14	1.3	1.7	6.5	5.6	2.5	8.3	4.8	63	7.8	0.93	0.30	0.32
15	2.7	1.8	8.9	4.7	2.5	5.6	4.3	31	7.9	0.89	0.31	0.39
16	2.6	1.8	5.0	4.2	2.9	4.4	3.7	9.5	6.6	0.76	0.27	0.69
17	3.1	1.7	3.8	3.7	3.2	3.6	3.1	5.8	4.4	0.69	0.26	0.46
18	2.6	1.8	11	3.3	2.7	11	2.7	24	3.8	0.69	0.26	0.39
19	2.2	1.9	8.6	2.7	2.5	14	2.6	28	4.0	0.69	0.23	0.35
20	1.9	2.2	5.1	2.8	2.6	31	2.6	11	3.4	0.83	0.21	0.32
21	1.7	2.1	3.4	2.8	3.7	45	2.6	6.9	3.0	0.68	0.21	0.30
22	1.7	2.0	2.7	3.0	3.4	12	7.2	5.4	2.5	0.61	0.21	0.30
23	1.7	1.9	2.5	4.1	2.8	7.2	7.2	4.6	2.0	0.58	0.31	0.30
24	1.7	2.0	5.4	32	2.5	5.8	4.1	4.0	1.9	0.60	e1.2	0.28
25	1.5	5.1	4.2	39	2.4	4.9	4.6	3.6	1.8	0.58	e1.9	0.27
26	1.4	9.3	3.2	11	2.4	5.1	6.2	3.4	1.7	0.52	e0.95	0.46
27	1.4	6.0	2.4	6.9	2.9	16	4.4	3.7	2.1	0.54	0.36	4.7
28	1.3	3.8	1.9	5.3	2.3	11	22	4.1	3.0	0.58	0.34	12
29	1.4	3.1	e1.7	4.8	---	6.5	30	4.0	2.4	0.52	1.6	7.2
30	1.5	2.9	e1.5	5.5	---	5.2	12	3.4	2.1	0.43	0.87	3.0
31	1.5	---	e1.4	12	---	4.9	---	2.9	---	0.41	0.84	---
TOTAL	52.9	73.5	127.8	225.1	105.1	290.0	187.7	324.3	126.2	25.58	17.98	40.46
MEAN	1.71	2.45	4.12	7.26	3.75	9.35	6.26	10.5	4.21	0.83	0.58	1.35
MAX	3.1	9.3	11	39	12	45	30	63	18	1.7	1.9	12
MIN	1.2	1.6	1.4	1.1	2.3	2.1	2.6	2.9	1.7	0.41	0.21	0.27
CFSM	0.20	0.29	0.48	0.85	0.44	1.09	0.73	1.22	0.49	0.10	0.07	0.16
IN.	0.23	0.32	0.55	0.98	0.46	1.26	0.81	1.41	0.55	0.11	0.08	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	7.08	10.6	13.9	14.1	16.5	21.0	18.9	15.0	10.5	8.21	5.57	6.50
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	1.71	2.45	2.07	1.19	3.75	6.58	4.84	4.97	2.30	0.83	0.58	0.88
(WY)	2002	2002	1981	1981	2002	1981	1985	1969	1999	2002	2002	1980

e Estimated.

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01480675 MARSH CREEK NEAR GLENMOORE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	3190.64		1596.62		12.3	
ANNUAL MEAN	8.74		4.37		23.2	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	97	Mar 30	63	May 14	444	Jun 22 1972
LOWEST DAILY MEAN	0.83	Sep 18	0.21	Aug 20-22	0.21	Aug 20-22 2002
ANNUAL SEVEN-DAY MINIMUM	0.89	Sep 13	0.24	Aug 16	0.24	Aug 16 2002
MAXIMUM PEAK FLOW			67	May 14	a946	Jun 22 1972
MAXIMUM PEAK STAGE			2.06	May 14	4.68	Jun 22 1972
INSTANTANEOUS LOW FLOW			0.21	Aug 19-22	0.21	Aug 6 1999b
ANNUAL RUNOFF (CFSM)	1.02		0.51		1.44	
ANNUAL RUNOFF (INCHES)	13.85		6.93		19.52	
10 PERCENT EXCEEDS	19		9.3		24	
50 PERCENT EXCEEDS	4.5		2.6		7.5	
90 PERCENT EXCEEDS	1.4		0.44		2.1	

a From rating curve extended above 903 ft³/s based on straight-line extension.

b Also Aug. 19-22,2002.

