

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 good 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)
Feb. 23	2000	169	2.42	June 20	2200	*317	*2.90
Mar. 21	0745	148	2.35	Aug. 9	2345	131	2.29
June 4	2315	151	2.36	Sept. 15	1045	304	2.86

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	22	7.9	36	e7.0	e12	20	9.6	37	11	5.0	3.1
2	0.88	9.6	6.3	80	e10	e22	17	9.5	35	11	5.9	20
3	0.68	6.3	e4.8	37	e9.5	e50	16	9.1	15	11	6.5	27
4	0.93	5.1	e3.8	42	e13	e38	15	8.5	100	10	14	33
5	1.2	4.4	e3.9	25	e13	e30	16	8.2	124	11	10	27
6	0.87	11	e4.0	19	e10	e70	15	8.9	50	10	13	13
7	0.80	11	e4.1	17	e7.0	e50	15	8.8	40	11	10	6.9
8	0.73	7.1	e4.0	17	e8.0	e30	18	13	63	10	7.5	4.8
9	0.66	5.1	e4.4	19	e7.0	e44	28	13	37	9.1	14	4.0
10	1.8	4.4	e4.8	18	e8.0	e56	31	13	21	9.4	93	3.7
11	29	8.0	e16	14	e7.0	e26	46	12	16	10	62	3.3
12	45	20	88	12	e7.2	24	59	10	16	9.6	26	3.2
13	21	38	50	11	e7.0	51	24	8.8	34	8.4	13	8.4
14	7.4	18	74	10	e7.0	55	17	7.9	36	7.7	8.9	16
15	3.2	9.5	52	e9.0	e5.0	36	16	7.4	21	7.0	7.0	123
16	20	15	20	e7.8	e3.0	42	15	7.9	15	6.6	6.2	99
17	36	62	e6.0	e6.5	e2.0	48	13	11	13	6.2	5.7	34
18	17	65	e8.8	e5.6	e3.0	36	14	9.5	24	5.9	5.0	12
19	7.4	29	10	e5.8	e3.8	25	15	8.2	23	5.8	4.5	62
20	4.6	13	34	e6.2	e5.0	42	13	7.3	102	5.3	4.0	53
21	3.4	11	43	e5.6	e7.0	124	13	10	252	5.3	3.8	15
22	2.8	12	17	e5.0	e9.0	49	15	10	125	11	3.6	9.2
23	2.4	12	13	e4.2	e30	27	14	9.2	56	26	3.4	77
24	2.1	9.7	12	e3.6	e80	21	12	13	30	16	3.0	100
25	2.6	8.1	22	e4.0	e45	18	11	16	22	9.0	2.9	30
26	11	7.4	32	e4.4	e30	19	16	75	18	6.9	2.8	14
27	10	10	24	e4.0	e18	23	17	75	16	6.0	2.9	12
28	6.6	9.8	16	e3.6	e11	18	13	21	14	5.3	2.8	22
29	5.6	8.1	15	e4.4	---	21	11	12	13	4.6	2.8	25
30	21	8.0	14	e5.0	---	39	10	9.8	12	4.1	3.2	15
31	43	---	16	e6.0	---	34	---	8.7	---	4.0	2.8	---
TOTAL	311.05	459.6	630.8	447.7	372.5	1180	555	451.3	1380	274.2	355.2	875.6
MEAN	10.0	15.3	20.3	14.4	13.3	38.1	18.5	14.6	46.0	8.85	11.5	29.2
MAX	45	65	88	80	80	124	59	75	252	26	93	123
MIN	0.66	4.4	3.8	3.6	2.0	12	10	7.3	12	4.0	2.8	3.1
CFSM	1.17	1.79	2.37	1.69	1.55	4.44	2.16	1.70	5.37	1.03	1.34	3.41
IN.	1.35	1.99	2.74	1.94	1.62	5.12	2.41	1.96	5.99	1.19	1.54	3.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

	7.16	10.7	14.0	14.1	16.4	21.5	18.9	15.0	11.5	8.23	5.72	7.09
MEAN	7.16	10.7	14.0	14.1	16.4	21.5	18.9	15.0	11.5	8.23	5.72	7.09
MAX	25.3	22.8	49.9	35.9	44.8	58.4	47.4	36.7	46.0	34.0	22.1	29.2
(WY)	1997	1997	1997	1978	1971	1994	1983	1989	2003	1984	1971	2003
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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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1966 - 2003	
ANNUAL TOTAL	2743.87		7292.95			
ANNUAL MEAN	7.52		20.0		12.5	
HIGHEST ANNUAL MEAN					23.2	1984
LOWEST ANNUAL MEAN					4.37	2002
HIGHEST DAILY MEAN	88	Dec 12	252	Jun 21	444	Jun 22 1972
LOWEST DAILY MEAN	0.21	Aug 20-22	0.66	Oct 9	0.21	Aug 20-22 2002
ANNUAL SEVEN-DAY MINIMUM	0.24	Aug 16	0.84	Oct 3	0.24	Aug 16 2002
MAXIMUM PEAK FLOW			317	Jun 20,21	a946	Jun 22 1972
MAXIMUM PEAK STAGE			2.90	Jun 20,21	4.68	Jun 22 1972
INSTANTANEOUS LOW FLOW			0.56	Oct 10	0.21	Aug 6 1999b
ANNUAL RUNOFF (CFSM)	0.88		2.33		1.46	
ANNUAL RUNOFF (INCHES)	11.91		31.66		19.85	
10 PERCENT EXCEEDS	18		47		25	
50 PERCENT EXCEEDS	3.7		12		7.6	
90 PERCENT EXCEEDS	0.44		3.8		2.1	

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

b Also Aug. 19-22, 2002.

