

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 less than 2 ft³/s and those for estimated daily discharges, which are fair. 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)
Nov. 28	1745	222	2.60	Mar. 29	0400	201	2.53
Jan. 14	2045	201	2.53	Apr. 3	0615	*310	*2.88

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	53	17	e12	14	20	21	5.7	4.5	2.1	1.5
2	13	11	50	15	13	16	106	16	5.5	3.6	1.9	1.3
3	13	10	20	15	13	13	257	14	7.8	2.6	1.8	1.1
4	12	22	17	16	14	13	91	13	14	2.3	1.6	1.0
5	11	55	16	27	16	13	42	12	10	2.5	1.6	0.93
6	9.9	22	16	51	18	14	36	12	9.4	4.5	1.6	0.89
7	9.5	13	24	29	19	22	34	12	13	3.7	1.6	0.85
8	9.5	11	36	30	21	46	60	11	8.4	38	1.9	0.78
9	9.5	10	23	35	27	21	37	10	6.0	35	2.3	0.78
10	9.7	9.8	66	18	38	15	24	9.6	5.3	10	2.2	0.74
11	9.1	10	63	18	20	15	21	9.2	4.9	4.6	1.9	0.73
12	8.8	20	25	30	15	17	20	8.6	4.4	3.3	1.7	0.68
13	8.5	47	19	21	14	15	19	8.1	4.1	2.9	1.6	0.68
14	18	22	17	129	26	14	18	7.9	3.9	2.9	1.5	0.84
15	24	13	15	99	87	12	17	8.1	3.5	3.0	1.5	1.3
16	34	12	15	27	28	12	17	8.4	3.3	3.0	1.6	1.2
17	21	11	15	22	20	12	16	7.9	3.2	11	1.8	1.8
18	13	11	15	16	15	12	16	7.5	3.1	42	1.5	1.7
19	30	11	15	15	12	12	16	7.2	3.1	17	1.5	1.4
20	37	12	11	16	12	13	15	12	3.2	6.1	1.7	1.2
21	18	16	11	15	14	16	15	15	3.1	3.8	1.6	1.1
22	16	13	12	13	19	13	14	11	3.0	2.9	1.3	0.93
23	14	12	48	e12	22	34	30	9.0	2.7	2.5	1.1	0.87
24	12	13	89	e11	17	70	53	8.4	2.5	2.2	1.1	0.80
25	11	18	22	e12	15	21	22	8.9	2.4	2.9	0.99	0.77
26	11	15	15	e13	15	16	16	9.8	2.3	2.7	0.97	0.83
27	11	12	13	e12	15	15	15	8.5	2.5	3.0	1.0	1.1
28	10	152	12	e11	14	70	15	7.7	3.3	4.4	2.2	0.95
29	11	95	13	e11	---	147	13	8.3	3.1	3.7	2.3	0.96
30	21	22	15	e12	---	35	17	7.1	2.9	2.8	2.1	0.95
31	19	---	17	e12	---	21	---	6.2	---	2.3	1.8	---
TOTAL	473.5	713.8	798	780	571	779	1092	315.4	149.6	235.7	51.36	30.66
MEAN	15.3	23.8	25.7	25.2	20.4	25.1	36.4	10.2	4.99	7.60	1.66	1.02
MAX	37	152	89	129	87	147	257	21	14	42	2.3	1.8
MIN	8.5	9.8	11	11	12	12	13	6.2	2.3	2.2	0.97	0.68
CFSM	1.78	2.78	3.00	2.94	2.38	2.93	4.25	1.19	0.58	0.89	0.19	0.12
IN.	2.06	3.10	3.46	3.39	2.48	3.38	4.74	1.37	0.65	1.02	0.22	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	7.80	11.4	14.9	14.3	16.7	21.4	19.4	14.7	11.2	8.49	5.81	7.36
MAX	25.3	25.6	49.9	35.9	44.8	58.4	47.4	36.7	46.0	34.0	22.1	29.2
(WY)	1997	2004	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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01480675 MARSH CREEK NEAR GLENMOORE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	6550.6		5990.02		12.8	
ANNUAL MEAN	17.9		16.4		23.2	
HIGHEST ANNUAL MEAN					4.37	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	170	Feb 7	257	Apr 3	444	Jun 22 1972
LOWEST DAILY MEAN	2.8	Jul 11	0.68	Sep 12,13	0.21	Aug 20 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	Jun 30	0.75	Sep 8	0.24	Aug 16 2002
MAXIMUM PEAK FLOW			310	Apr 3	a946	Jun 22 1972
MAXIMUM PEAK STAGE			2.88	Apr 3	4.68	Jun 22 1972
INSTANTANEOUS LOW FLOW			0.68	Sep 12-14	0.21	Aug 6 1999b
ANNUAL RUNOFF (CFSM)	2.09		1.91		1.49	
ANNUAL RUNOFF (INCHES)	28.43		26.00		20.30	
10 PERCENT EXCEEDS	36		34		25	
50 PERCENT EXCEEDS	12		12		7.8	
90 PERCENT EXCEEDS	5.2		1.5		2.1	

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

b Also Aug. 19-22, 2002.

