

CHRISTINA RIVER BASIN

01478245 WHITE CLAY CREEK NEAR STRICKERSVILLE, PA

LOCATION.--Lat 39°44'51", long 75°46'15", Chester County, Hydrologic Unit 02040205, on right bank 0.1 mi downstream from West Branch White Clay Creek, in the White Clay Creek State Preserve, and 1.5 mi northeast of Strickersville.

DRAINAGE AREA.--59.2 mi².

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 120 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those greater than 430 ft³/s, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Sept. 16	Unknown	*14,400	*a16.71	No other peak greater than base discharge.			

a From floodmark in gage.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	27	e25	46	108	60	47	30	23	12	16
2	18	24	26	e18	141	60	63	46	30	29	11	16
3	18	24	27	383	87	54	55	47	33	108	9.8	15
4	27	24	27	83	60	76	54	48	29	29	9.7	16
5	25	23	27	e48	52	56	59	46	28	25	10	26
6	21	25	27	e42	48	60	53	45	28	22	9.5	42
7	20	26	26	e37	49	68	53	47	28	21	9.1	26
8	42	26	28	e30	73	50	51	47	27	19	11	23
9	102	27	41	e50	61	49	63	46	24	19	13	19
10	101	27	29	e74	52	50	148	43	24	19	11	44
11	32	38	27	e38	47	48	115	41	26	19	11	24
12	26	35	26	e37	52	45	152	41	25	18	10	19
13	24	28	26	e65	99	43	84	65	30	19	9.9	18
14	25	28	26	79	58	48	69	44	37	18	9.9	17
15	22	28	24	346	50	83	65	40	35	18	13	20
16	22	27	25	146	49	90	71	39	27	17	12	e4930
17	22	28	25	109	49	97	73	39	28	16	11	e680
18	22	27	24	550	167	85	61	38	31	16	9.7	e90
19	22	27	24	161	87	58	57	42	27	15	8.9	e60
20	21	28	24	79	63	53	57	41	29	18	19	e52
21	21	29	24	66	54	184	55	36	34	19	17	e90
22	21	28	26	65	48	493	71	35	30	19	14	165
23	22	27	25	63	e51	109	67	40	27	18	13	68
24	22	27	26	231	46	87	77	110	25	16	12	53
25	22	27	e25	103	45	75	59	69	24	15	13	46
26	23	67	e24	70	45	66	55	42	24	14	103	42
27	24	40	28	58	44	63	51	37	23	13	238	41
28	24	30	26	54	78	65	50	35	24	12	33	41
29	24	28	28	49	---	60	49	33	23	12	22	41
30	23	28	30	45	---	55	48	32	22	12	18	193
31	24	---	e27	42	---	53	---	31	---	12	17	---
TOTAL	882	875	825	3246	1801	2591	2045	1392	832	650	720.5	6933
MEAN	28.5	29.2	26.6	105	64.3	83.6	68.2	44.9	27.7	21.0	23.2	231
MAX	102	67	41	550	167	493	152	110	37	108	238	4930
MIN	18	23	24	18	44	43	48	31	22	12	8.9	15
CFSM	.48	.49	.45	1.77	1.09	1.41	1.15	.76	.47	.35	.39	3.90
IN.	.55	.55	.52	2.04	1.13	1.63	1.29	.87	.52	.41	.45	4.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	65.7	64.7	105	104	98.0	120	97.2	70.4	45.7	32.1	44.6	89.8
MAX	143	119	246	134	134	146	126	90.3	64.4	39.7	96.2	231
(WY)	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1996	1999
MIN	25.8	29.2	26.6	73.8	64.3	83.6	68.2	44.9	27.7	21.0	23.2	20.6
(WY)	1998	1999	1999	1998	1999	1999	1999	1999	1999	1999	1999	1998

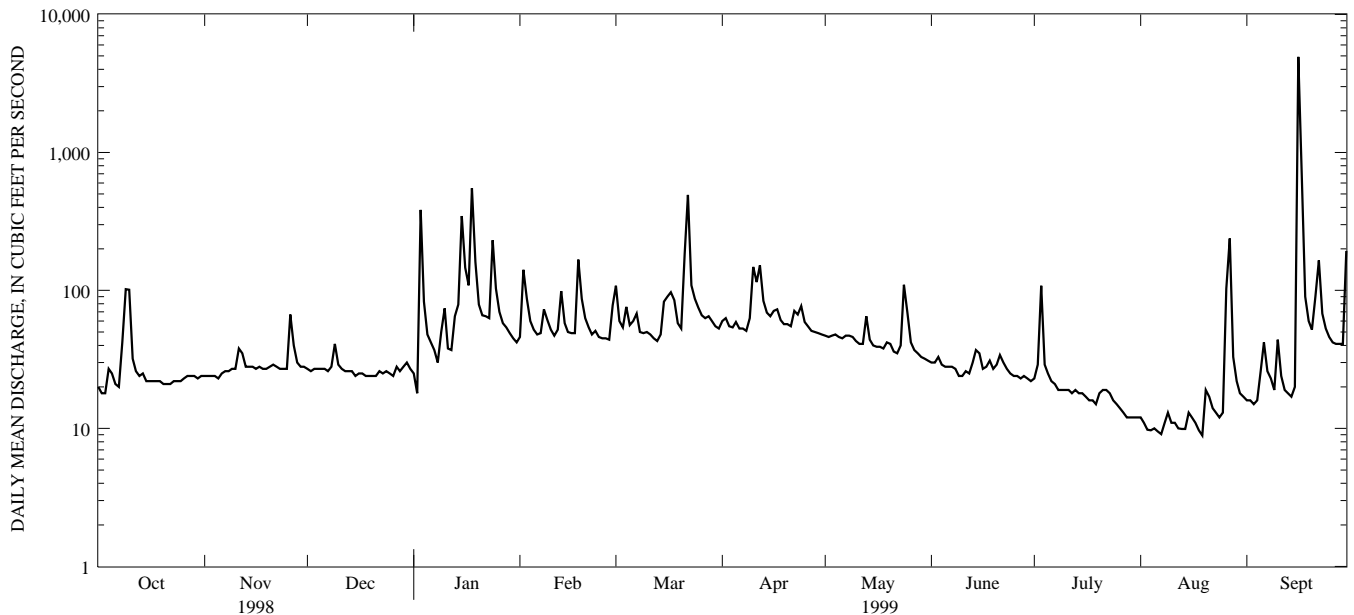
e Estimated.

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01478245 WHITE CLAY CREEK NEAR STRICKERSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1996 - 1999	
ANNUAL TOTAL	22077		22792.5		76.8	
ANNUAL MEAN	60.5		62.4		105	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	433	Mar 9	e4930	Sep 16	e4930	Sep 16 1999
LOWEST DAILY MEAN	17	Sep 14	8.9	Aug 19	8.9	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	18	Sep 10	10	Aug 2	10	Aug 2 1999
INSTANTANEOUS PEAK FLOW			b14400	Sep 16	b14400	Sep 16 1996
INSTANTANEOUS PEAK STAGE			a16.71	Sep 16	a16.71	Sep 16 1999
INSTANTANEOUS LOW FLOW			8.3	Aug 7,8c	8.3	Aug 7,8 1999c
ANNUAL RUNOFF (CFSM)	1.02		1.05		1.30	
ANNUAL RUNOFF (INCHES)	13.87		14.32		17.62	
10 PERCENT EXCEEDS	107		84		136	
50 PERCENT EXCEEDS	43		31		51	
90 PERCENT EXCEEDS	21		16		21	

- a From floodmark in gage.
- b From rating curve extended above 426 ft³/s on basis of runoff comparison with nearby station.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999