

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 1,180 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)
Dec. 17	0915	*3,590	*9.97	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	34	39	e46	93	60	118	55	64	34	23	24
2	41	35	36	e42	76	59	102	54	149	35	22	22
3	39	35	34	e44	63	57	91	53	74	32	21	22
4	39	35	39	e48	56	72	85	51	61	33	21	44
5	38	35	34	e46	357	108	81	50	55	38	21	45
6	39	35	33	e45	182	81	83	48	52	37	21	25
7	37	35	33	e46	129	81	83	47	53	32	20	23
8	35	35	32	e48	101	83	78	47	49	33	18	23
9	36	36	32	e52	85	77	79	48	46	49	18	22
10	37	61	32	e44	97	67	96	47	44	55	34	22
11	37	40	34	e42	70	61	98	46	42	69	264	23
12	36	34	34	e40	62	59	113	45	58	35	194	21
13	35	34	32	e38	66	184	89	42	44	32	88	20
14	34	42	151	e34	66	89	78	40	41	31	43	23
15	34	42	64	e56	68	76	76	40	41	30	33	24
16	34	36	52	e43	72	95	122	39	263	29	30	21
17	35	35	1280	e37	123	129	95	40	182	28	29	21
18	39	33	148	e34	69	83	88	42	69	29	28	21
19	39	33	82	e350	61	71	77	44	54	30	28	20
20	36	33	67	e300	61	66	73	42	49	27	32	159
21	36	35	59	e110	60	272	72	75	46	26	27	161
22	35	33	52	e80	52	169	71	103	45	25	26	35
23	35	32	e51	e74	65	97	68	92	45	25	26	28
24	35	32	e55	e70	56	83	65	56	43	24	26	27
25	35	32	e52	e52	70	76	61	50	40	24	25	169
26	35	137	e49	e54	117	71	61	279	38	24	24	46
27	36	61	e53	e43	74	67	60	335	36	25	27	33
28	35	43	e48	e41	65	66	58	97	35	23	26	30
29	34	40	e46	e40	---	68	55	72	34	23	23	28
30	34	46	e46	554	---	703	56	63	34	26	23	27
31	34	---	e46	156	---	159	---	55	---	24	26	---
TOTAL	1126	1229	2845	2709	2516	3489	2432	2197	1886	987	1267	1209
MEAN	36.3	41.0	91.8	87.4	89.9	113	81.1	70.9	62.9	31.8	40.9	40.3
MAX	42	137	1280	554	357	703	122	335	263	69	264	169
MIN	34	32	32	34	52	57	55	39	34	23	18	20
CFSM	.61	.69	1.55	1.48	1.52	1.90	1.37	1.20	1.06	.54	.69	.68
IN.	.71	.77	1.79	1.70	1.58	2.19	1.53	1.38	1.19	.62	.80	.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	59.5	59.4	96.7	92.7	96.9	133	98.6	72.9	52.7	37.5	43.3	76.7
MAX	143	119	246	134	134	191	126	90.3	64.4	59.3	96.2	231
(WY)	1997	1997	1997	1997	1997	2000	1997	1998	1998	2000	1996	1999
MIN	25.8	29.2	26.6	63.4	64.3	83.6	68.2	44.9	27.7	21.0	23.2	20.6
(WY)	1998	1999	1999	2000	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	28985		23892			
ANNUAL MEAN	79.2		65.5		75.6	
HIGHEST ANNUAL MEAN					105	1997
LOWEST ANNUAL MEAN					62.4	1999
HIGHEST DAILY MEAN	1860	Mar 22	1280	Dec 17	4930	Sep 16 1999
LOWEST DAILY MEAN	27	Aug 26	18	Aug 8,9	8.9	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	29	Aug 20	20	Aug 3	10	Aug 2 1999
MAXIMUM PEAK FLOW			3590	Dec 17	a 14400	Sep 16 1999
MAXIMUM PEAK STAGE			9.97	Dec 17	b 16.71	Sep 16 1999
INSTANTANEOUS LOW FLOW			17	Aug 9	8.3	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.34		1.11		1.28	
ANNUAL RUNOFF (INCHES)	18.21		15.01		17.35	
10 PERCENT EXCEEDS	129		101		130	
50 PERCENT EXCEEDS	54		44		52	
90 PERCENT EXCEEDS	34		25		23	

a From rating curve extended above 1,180 ft³/s on basis of runoff comparison with nearby station.
b From floodmark in gage.

