

CHRISTINA RIVER BASIN

01480638 BROAD RUN AT NORTHBROOK, PA

LOCATION.--Lat 39°55'49", long 75°41'06", Chester County, Hydrologic Unit 02040205, on right bank 50 ft upstream from Northbrook Road and 2.2 mi south of Marshelton.

DRAINAGE AREA.--6.39 mi².

PERIOD OF RECORD.--December 2002 to April 30, 2004. (discontinued)

GAGE.--Water-stage recorder, crest-stage gage. Elevation of gage is 190.78 ft above NAVD of 1988.

REMARKS.--Records fair except those for estimated daily discharges and those above 100 ft³/s, which are poor. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	33	22	18	e8.9	11	13	---	---	---	---	---
2	19	31	20	19	e9.0	11	14	---	---	---	---	---
3	18	30	19	19	30	11	15	---	---	---	---	---
4	19	28	19	19	25	12	20	---	---	---	---	---
5	17	34	21	22	15	12	13	---	---	---	---	---
6	16	34	21	17	59	19	11	---	---	---	---	---
7	15	28	20	16	50	14	11	---	---	---	---	---
8	15	24	19	e15	25	14	11	---	---	---	---	---
9	14	23	18	e14	21	12	11	---	---	---	---	---
10	14	22	26	e13	21	12	10	---	---	---	---	---
11	14	22	65	14	17	12	10	---	---	---	---	---
12	14	28	38	15	16	11	12	---	---	---	---	---
13	13	22	32	15	15	10	25	---	---	---	---	---
14	14	21	40	14	15	10	19	---	---	---	---	---
15	35	20	36	e13	13	10	15	---	---	---	---	---
16	19	19	31	e12	12	12	13	---	---	---	---	---
17	18	19	46	e12	12	12	13	---	---	---	---	---
18	19	18	35	e10	13	12	12	---	---	---	---	---
19	17	35	33	e11	13	19	13	---	---	---	---	---
20	16	38	31	e12	13	15	13	---	---	---	---	---
21	16	27	28	e12	13	13	13	---	---	---	---	---
22	16	25	27	e12	12	12	13	---	---	---	---	---
23	15	24	26	e10	12	11	16	---	---	---	---	---
24	14	23	35	e10	12	11	19	---	---	---	---	---
25	14	23	26	e9.4	11	11	14	---	---	---	---	---
26	14	22	23	e9.5	11	11	23	---	---	---	---	---
27	73	21	21	e9.6	11	11	20	---	---	---	---	---
28	42	33	21	e9.7	10	11	15	---	---	---	---	---
29	56	29	20	e9.4	10	10	13	---	---	---	---	---
30	39	23	20	e9.1	---	11	e12	---	---	---	---	---
31	36	---	19	e8.9	---	13	---	---	---	---	---	---
TOTAL	682	779	858	409.6	504.9	376	432	---	---	---	---	---
MEAN	22.0	26.0	27.7	13.2	17.4	12.1	14.4	---	---	---	---	---
MAX	73	38	65	22	59	19	25	---	---	---	---	---
MIN	13	18	18	8.9	8.9	10	10	---	---	---	---	---
CFSM	3.44	4.06	4.33	2.07	2.72	1.90	2.25	---	---	---	---	---
IN.	3.97	4.54	4.99	2.38	2.94	2.19	2.51	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

MEAN	22.0	26.0	24.7	12.6	14.9	17.5	13.7	9.63	27.3	11.2	9.56	29.9
MAX	22.0	26.0	27.7	13.2	17.4	23.0	14.4	9.63	27.3	11.2	9.56	29.9
(WY)	2004	2004	2004	2004	2004	2003	2004	2003	2003	2003	2003	2003
MIN	22.0	26.0	13.3	12.0	12.3	12.1	13.0	9.63	27.3	11.2	9.56	29.9
(WY)	2004	2004	2003	2003	2003	2004	2003	2003	2003	2003	2003	2003

e Estimated.

CHRISTINA RIVER BASIN

01480638 BROAD RUN AT NORTHBROOK, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	6794.4		4041.5			
ANNUAL MEAN	18.6		19.0		17.5	
HIGHEST ANNUAL MEAN					19.0	2004
LOWEST ANNUAL MEAN					16.3	2003
HIGHEST DAILY MEAN	277	Sep 15	73	Oct 27	277	Sep 15 2003
LOWEST DAILY MEAN	5.6	Aug 25	e8.9	Jan 31, Feb 1	5.6	Aug 25 2003
ANNUAL SEVEN-DAY MINIMUM	5.9	Aug 23	9.2	Jan 27	5.9	Aug 23 2003
MAXIMUM PEAK FLOW			a114	Feb 6	a4700	Sep 15 2003
MAXIMUM PEAK STAGE			5.67	Feb 6	8.04	Sep 15 2003
INSTANTANEOUS LOW FLOW			8.3	Feb 1	5.2	Aug 25 2003
ANNUAL RUNOFF (CFSM)	2.91		2.97		2.73	
ANNUAL RUNOFF (INCHES)	39.55		23.53		37.12	
10 PERCENT EXCEEDS	34		33		31	
50 PERCENT EXCEEDS	15		15		14	
90 PERCENT EXCEEDS	6.6		11		7.1	

a From rating curve extended above 76 ft³/s on basis of slope-area measurement at gage height 8.04 ft.
 e Estimated.

