

PARADISE CREEK BASIN

01440485 SWIFTWATER CREEK AT SWIFTWATER, PA

LOCATION.--Lat 41°05'38", long 75°19'21", Monroe County, Hydrologic Unit 02040104, on left bank at Aventis Pasteur Laboratories complex, at Discovery Drive in Swiftwater, Pocono Township, and 3.0 mi above mouth.

DRAINAGE AREA.--6.59 mi².

PERIOD OF RECORD.--April 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,114.73 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 18, 2001, nonrecording gage at site 500 ft downstream (datum undetermined).

REMARKS.--Records good except those for estimated daily discharges, 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 base discharge of 250 ft³/s (revised) and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 21	0045	265	2.33	Sept. 15	1215	551	2.92
June 12	2145	723	3.17	Sept. 23	0700	*996	*3.49
June 21	1930	418	2.68				

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	7.2	17	19	32	12	14	36	16	103	24	11	17
2	6.9	17	18	43	12	16	41	15	59	22	12	19
3	6.7	16	17	32	12	15	36	15	38	21	12	20
4	7.5	16	16	29	15	e15	32	15	42	20	19	20
5	8.0	15	17	27	13	15	33	14	33	19	43	15
6	6.9	19	16	25	12	16	30	14	28	18	42	14
7	6.7	17	15	24	12	16	28	14	42	19	23	13
8	6.3	16	15	24	e11	15	26	14	50	18	18	12
9	6.2	15	15	23	e11	15	26	14	37	17	17	12
10	7.4	15	14	23	11	15	27	13	31	16	20	12
11	72	15	17	21	11	e15	31	13	28	17	19	11
12	115	17	24	20	11	14	30	13	68	15	19	11
13	55	20	21	19	e11	15	26	13	123	14	17	14
14	32	18	37	19	e11	15	24	12	69	14	16	22
15	23	17	39	18	11	15	23	12	50	13	15	219
16	59	20	34	17	e14	22	22	12	39	13	15	100
17	61	52	28	17	e42	37	21	12	33	12	15	58
18	42	53	24	e17	e45	64	21	12	35	14	14	38
19	31	44	23	e16	13	63	20	11	30	13	13	42
20	24	35	50	16	10	71	19	11	50	12	13	35
21	21	30	49	e15	10	147	18	12	251	13	13	27
22	19	31	35	e15	15	101	18	11	219	25	12	24
23	17	30	32	e15	19	74	17	11	102	17	12	255
24	16	26	28	e15	17	52	17	14	75	16	11	67
25	16	24	29	14	15	45	16	13	56	13	11	47
26	27	23	26	13	15	41	20	22	45	12	11	40
27	24	22	24	e13	14	37	19	18	38	12	11	34
28	20	21	22	e12	14	32	17	17	33	12	11	40
29	18	20	21	12	---	50	16	16	29	11	11	32
30	18	20	20	12	---	54	16	16	26	10	11	29
31	18	---	21	12	---	41	---	22	---	10	10	---
TOTAL	797.8	701	766	610	419	1157	726	437	1862	482	497	1299
MEAN	25.7	23.4	24.7	19.7	15.0	37.3	24.2	14.1	62.1	15.5	16.0	43.3
MAX	115	53	50	43	45	147	41	22	251	25	43	255
MIN	6.2	15	14	12	10	14	16	11	26	10	10	11
CFSM	3.91	3.55	3.75	2.99	2.27	5.66	3.67	2.14	9.42	2.36	2.43	6.57
IN.	4.50	3.96	4.32	3.44	2.37	6.53	4.10	2.47	10.51	2.72	2.81	7.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

	2001	2002	2003	2001	2002	2003	2001	2002	2003	2001	2002	2003
MEAN	15.7	14.6	18.0	13.7	12.7	27.6	21.3	17.1	32.8	10.8	9.49	19.5
MAX	25.7	23.4	24.7	19.7	15.0	37.3	24.2	24.0	62.1	15.5	16.0	43.3
(WY)	2003	2003	2003	2003	2003	2003	2003	2002	2003	2003	2003	2003
MIN	5.65	5.90	11.3	7.81	10.5	18.0	18.4	13.1	15.2	8.36	5.59	7.63
(WY)	2002	2002	2002	2002	2002	2002	2002	2001	2001	2002	2002	2002

e Estimated.

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01440485 SWIFTWATER CREEK AT SWIFTWATER, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	5947.3		9753.8			
ANNUAL MEAN	16.3		26.7		19.4	
HIGHEST ANNUAL MEAN					26.7	2003
LOWEST ANNUAL MEAN					12.0	2002
HIGHEST DAILY MEAN	115	Oct 12	255	Sep 23	255	Sep 23 2003
LOWEST DAILY MEAN	4.2	Sep 9 ^a	6.2	Oct 9	4.2	Sep 9 2002 ^a
ANNUAL SEVEN-DAY MINIMUM	4.2	Sep 8	6.9	Oct 3	4.2	Sep 8 2002
MAXIMUM PEAK FLOW			996	Sep 23	996	Sep 23 2003
MAXIMUM PEAK STAGE			3.49	Sep 23	3.49	Sep 23 2003
ANNUAL RUNOFF (CFSM)	2.47		4.06		2.94	
ANNUAL RUNOFF (INCHES)	33.57		55.06		39.93	
10 PERCENT EXCEEDS	28		48		35	
50 PERCENT EXCEEDS	15		18		15	
90 PERCENT EXCEEDS	6.0		11		5.6	

^a Also Sept. 10, 11, 13, 14.

