

## CONOCOCHEAGUE CREEK BASIN

## 01614137 DENNIS CREEK NEAR CHAMBERSBURG, PA

**LOCATION.**--Lat 39°56'51", long 77°44'26", Franklin County, Hydrologic Unit 02070004, on left bank 160 ft upstream from bridge on Township Route 458, 250 ft upstream from Back Creek, and 4.2 mi west of Chambersburg.

**DRAINAGE AREA.**--13.2 mi<sup>2</sup>.

**PERIOD OF RECORD.**--April 1997 to May 2001, published as a partial-record station. June 2001 to September 2002. (discontinued)

**GAGE.**--Water-stage recorder and crest-stage gage. Elevation of gage is 540 ft above National Geodetic Vertical Datum of 1929, from topographic map.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station. Diversions above station used for irrigation of land in the drainage basin above the station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 150 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 20	1530	*81.0	*2.63	(No peaks above base discharge.)			
Aug. 24	0415	81.0	2.63				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.8	3.1	e1.7	4.6	1.9	17	27	14	3.7	1.8	2.5
2	2.6	2.8	3.0	e1.7	4.5	2.1	15	26	13	3.4	1.9	2.5
3	2.7	3.1	3.0	e1.8	4.2	7.2	14	23	12	3.5	1.9	2.2
4	2.6	2.7	2.9	2.3	3.9	5.2	13	20	11	3.4	2.3	2.1
5	2.5	2.5	2.7	3.0	e3.7	e4.5	12	19	10	3.1	2.5	2.0
6	2.6	2.7	2.7	2.5	e3.5	4.0	11	17	10	3.5	2.6	1.8
7	2.6	2.8	2.8	e3.8	3.2	3.8	11	17	9.7	3.3	2.2	1.9
8	2.7	2.8	3.2	e3.1	3.0	3.5	9.9	16	8.9	2.9	2.0	1.9
9	2.8	2.7	3.7	2.7	2.8	3.4	9.9	16	8.4	3.0	1.9	1.7
10	2.9	2.8	3.0	3.0	2.8	3.4	9.8	15	7.9	3.4	1.8	1.7
11	2.9	2.8	2.9	3.9	e2.7	3.0	9.0	14	7.6	3.2	1.8	1.7
12	2.5	2.8	2.6	3.5	2.7	3.0	8.6	13	7.3	2.7	1.8	1.7
13	2.4	2.7	2.6	3.0	2.6	3.0	8.8	13	7.6	2.4	1.8	1.6
14	2.9	2.8	3.5	2.7	e2.5	3.0	10	13	8.6	3.2	1.7	1.5
15	3.7	2.8	3.1	2.5	2.4	2.8	20	12	8.0	2.9	1.6	1.8
16	3.0	2.7	2.8	2.3	2.3	3.0	16	11	7.5	2.7	1.5	1.9
17	3.0	2.7	2.7	2.2	2.3	3.1	14	11	6.8	2.6	1.5	1.7
18	2.8	2.7	3.4	2.0	2.2	7.0	23	32	6.3	2.4	1.5	1.6
19	2.7	2.7	3.1	2.1	2.2	7.6	26	25	5.9	2.6	1.5	1.8
20	2.7	2.6	2.8	2.2	2.1	47	23	21	5.7	2.7	1.5	1.6
21	2.6	2.6	2.5	e2.0	2.1	43	21	19	5.3	2.8	1.4	1.7
22	2.6	3.0	2.3	2.0	2.1	28	22	17	5.2	2.7	1.4	1.9
23	2.6	2.5	2.3	2.2	2.0	22	20	16	5.1	3.5	1.7	2.3
24	2.7	2.6	2.3	6.1	1.9	18	19	15	4.9	4.2	14	1.8
25	2.7	3.9	2.2	6.5	1.9	16	18	14	4.8	3.0	4.2	1.7
26	2.8	3.7	e2.1	5.1	2.0	19	16	14	4.5	2.7	3.3	2.3
27	2.8	3.3	e2.0	4.3	2.0	28	15	18	4.4	2.6	2.8	6.9
28	2.8	3.0	e1.8	4.0	1.9	22	34	17	4.3	2.4	2.9	6.9
29	2.7	2.9	e1.8	3.7	---	19	37	18	4.2	2.4	3.1	4.2
30	2.7	3.1	e1.8	3.6	---	16	31	16	4.0	2.2	2.8	3.2
31	3.0	---	e1.7	4.2	---	16	---	14	---	2.2	2.6	---
TOTAL	85.3	85.6	82.4	95.7	76.1	368.5	514.0	539	222.9	91.3	77.3	70.1
MEAN	2.75	2.85	2.66	3.09	2.72	11.9	17.1	17.4	7.43	2.95	2.49	2.34
MAX	3.7	3.9	3.7	6.5	4.6	47	37	32	14	4.2	14	6.9
MIN	2.4	2.5	1.7	1.7	1.9	1.9	8.6	11	4.0	2.2	1.4	1.5
CFSM	0.21	0.22	0.20	0.23	0.21	0.90	1.30	1.32	0.56	0.22	0.19	0.18
IN.	0.24	0.24	0.23	0.27	0.21	1.04	1.45	1.52	0.63	0.26	0.22	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	2.75	2.85	2.66	3.09	2.72	11.9	17.1	17.4	14.6	5.51	3.05	2.54
MAX	2.75	2.85	2.66	3.09	2.72	11.9	17.1	17.4	21.7	8.07	3.61	2.74
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001	2001
MIN	2.75	2.85	2.66	3.09	2.72	11.9	17.1	17.4	7.43	2.95	2.49	2.34
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

e Estimated.

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SUMMARY STATISTICS	FOR 2002 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL TOTAL	2308.2			
ANNUAL MEAN	6.32		6.32	
HIGHEST ANNUAL MEAN			6.32	2002
LOWEST ANNUAL MEAN			6.32	2002
HIGHEST DAILY MEAN	47	Mar 20	189	Jun 23 2001
LOWEST DAILY MEAN	1.4	Aug 21,22	1.4	Aug 21,22 2002
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 16	1.5	Aug 16 2002
MAXIMUM PEAK FLOW	81	Mar 20, Aug 24	a960	Feb 18 1998
MAXIMUM PEAK STAGE	2.63	Mar 20, Aug 24	5.97	Feb 18 1998
ANNUAL RUNOFF (CFSM)	0.48		0.48	
ANNUAL RUNOFF (INCHES)	6.50		6.51	
10 PERCENT EXCEEDS	17		17	
50 PERCENT EXCEEDS	3.0		3.0	
90 PERCENT EXCEEDS	1.8		1.8	

a From rating curve extended above 136 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 5.97 ft.

