

## CODORUS CREEK BASIN

## 01574500 CODORUS CREEK AT SPRING GROVE, PA

**LOCATION.**--Lat 39°52'43", long 76°51'13", York County, Hydrologic Unit 02050306, on right bank 15 ft downstream from abutments of dismantled county highway bridge on Township Route 452, 0.1 mi downstream from small left-bank tributary, 0.3 mi downstream from east boundary of Spring Grove, and 7.0 mi southwest of York.

**DRAINAGE AREA.**--75.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--May 1929 to September 1964, November 1965 to current year. October 1962 to September 1964, November 1965 to September 1968, published as West Branch Codorus Creek at Spring Grove.

**REVISED RECORDS.**--WSP 1302: 1929-30. WSP 1502: 1932(M), 1933, 1935(M), 1940, 1942(M), 1943, 1944-46(M), 1951(M), 1955(m).

**GAGE.**--Water-stage recorder and concrete control. Datum of gage is 430.86 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 18, 1930, nonrecording gage, Jan. 18, 1930, to Sept. 9, 1941, water-stage recorder at site 0.9 mi upstream, and Sept. 10, 1941, to Sept. 30, 1964, water-stage recorder at site 0.8 mi upstream, all at datum 5.64 ft higher. Nov. 1 to Dec. 20, 1965, nonrecording gage about 40 ft downstream at unknown datum, Dec. 21, 1965, to Mar. 31, 1966, nonrecording gage at present site and datum.

**REMARKS.**--No estimated daily discharges. Records fair. Daily discharges include water diverted around station by waste treatment plant of P.H. Glatfelter Company. Flow regulated by dam on Lake Marburg (station 01574390) about 20 miles upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**COOPERATION.**--Records of change in lake contents and daily diversion furnished by P.H. Glatfelter Company.

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	35	33	38	34	50	37	39	30	48	44	39	38
2	39	33	35	36	43	38	34	58	46	43	41	34
3	39	46	34	38	36	64	36	41	44	37	41	26
4	42	44	36	37	35	37	40	32	44	44	42	33
5	46	42	35	35	35	31	37	37	46	45	42	37
6	47	42	36	37	36	35	30	36	102	44	40	34
7	46	39	37	40	37	34	29	35	127	41	39	30
8	39	43	41	36	36	36	30	35	43	39	37	30
9	36	43	48	34	35	37	36	38	44	39	34	31
10	37	44	32	39	33	41	41	38	45	39	33	33
11	42	39	40	71	35	35	33	35	47	38	34	32
12	48	39	39	53	35	38	30	38	47	35	38	32
13	44	38	37	39	32	41	33	71	52	35	41	35
14	44	36	46	34	36	40	44	94	58	45	40	34
15	54	36	40	39	39	38	70	31	31	37	39	35
16	46	35	33	36	35	43	32	32	25	37	41	36
17	50	36	34	33	36	44	38	37	29	39	42	35
18	42	38	50	33	33	54	48	91	34	40	40	35
19	44	37	40	35	37	45	50	41	24	43	42	35
20	40	35	35	35	34	140	50	33	29	47	44	32
21	37	35	40	32	36	75	49	35	23	59	42	34
22	43	30	52	38	37	39	39	31	33	51	37	40
23	44	31	48	37	36	32	25	34	36	40	40	47
24	48	32	46	82	36	30	32	39	45	38	93	32
25	45	52	35	54	34	31	30	43	40	37	37	32
26	46	60	47	36	38	40	29	50	42	42	39	44
27	50	37	36	32	39	88	36	49	42	39	38	107
28	47	35	36	37	37	37	66	41	42	35	45	78
29	38	34	37	33	---	32	34	46	42	48	98	36
30	36	38	33	37	---	30	27	43	41	44	44	33
31	36	---	34	52	---	32	---	45	---	37	31	---
TOTAL	1330	1162	1210	1244	1021	1374	1147	1339	1351	1281	1333	1150
MEAN	42.9	38.7	39.0	40.1	36.5	44.3	38.2	43.2	45.0	41.3	43.0	38.3
MAX	54	60	52	82	50	140	70	94	127	59	98	107
MIN	35	30	32	32	32	30	25	30	23	35	31	26
(†)	-22.9	-40.0	-23.3	-13.7	-21.1	-3.1	-9.8	-4.9	-25.2	-31.9	-35.3	-20.7

† Change in contents from Lake Marburg, equivalent in cubic feet per second.

CODORUS CREEK BASIN

01574500 CODORUS CREEK AT SPRING GROVE, PA--Continued

REMARKS.--Daily and monthly discharge figures (and those data determined from them) include water diverted around station by P.H. Glatfelter Co. Instantaneous data reflect actual streamflow past gage and do not include diverted streamflow.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	65.7	61.1	75.8	86.5	100	122	117	87.3	85.2	62.1	55.5	65.4
MAX (WY)	269	159	270	264	269	492	372	171	699	185	109	360
MIN (WY)	18.1	15.8	16.9	19.5	25.7	33.0	31.2	28.8	21.4	17.4	17.1	19.2
	1967	1966	1966	1966	1969	1969	1969	1969	1966	1966	1966	1966

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 2002

ANNUAL TOTAL	20595		14942			
ANNUAL MEAN	56.4		40.9		83.0	
HIGHEST ANNUAL MEAN					163 1972	
LOWEST ANNUAL MEAN					33.6 1969	
HIGHEST DAILY MEAN	449	Mar 30	140	Mar 20	11000	Jun 22 1972
LOWEST DAILY MEAN	30	Nov 22	23	Jun 21	0.60	Sep 4 1966
ANNUAL SEVEN-DAY MINIMUM	34	Nov 18	28	Jun 15	10	Sep 1 1966
MAXIMUM PEAK FLOW			425	Jun 7	a19400	Jun 22 1972
MAXIMUM PEAK STAGE			3.56	Jun 7	b15.57	Jun 22 1972
10 PERCENT EXCEEDS	79		50		149	
50 PERCENT EXCEEDS	48		38		54	
90 PERCENT EXCEEDS	36		32		35	

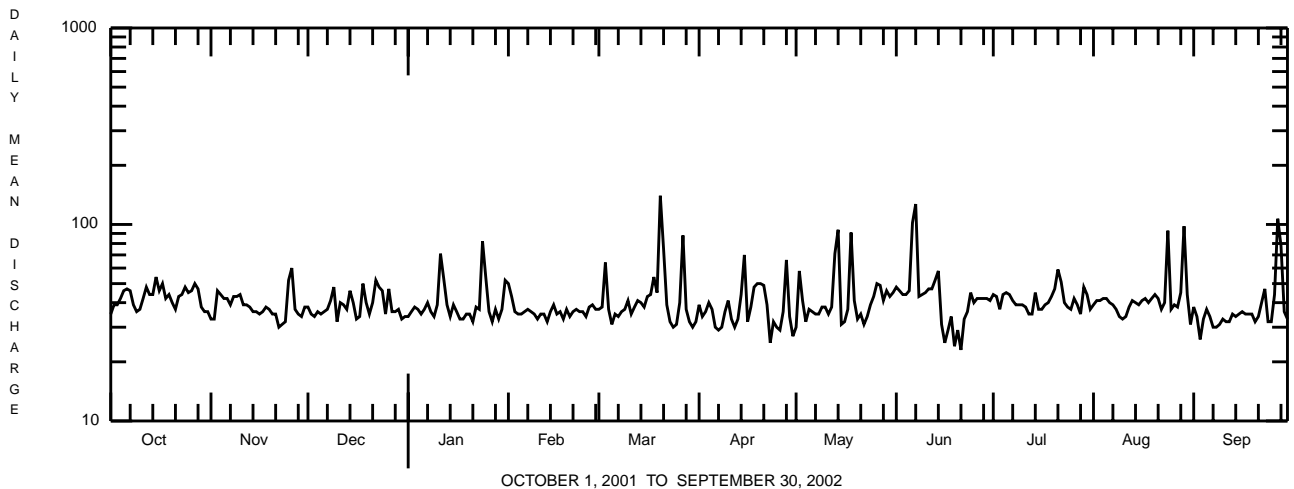
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1964, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	38.4	52.7	64.4	87.4	114	144	125	86.1	55.6	38.7	44.0	41.7
MAX (WY)	151	148	164	223	244	360	326	206	165	157	321	424
MIN (WY)	8.76	11.9	18.1	19.5	27.3	50.1	41.3	26.6	19.6	9.09	11.9	8.93
	1942	1937	1959	1942	1932	1959	1947	1963	1959	1954	1935	1941

SUMMARY STATISTICS WATER YEARS 1929 - 1964

ANNUAL MEAN	c74.1	
HIGHEST ANNUAL MEAN	127	1933
LOWEST ANNUAL MEAN	31.4	1959
HIGHEST DAILY MEAN	3920	Sep 16 1934
LOWEST DAILY MEAN	.80	Oct 26 1947
ANNUAL SEVEN-DAY MINIMUM	5.0	Jul 9 1959
MAXIMUM PEAK FLOW	d11200	Aug 23 1933
MAXIMUM PEAK STAGE	f11.84	Aug 23 1933
INSTANTANEOUS LOW FLOW	.00	Oct 26 1947
ANNUAL RUNOFF (CFSM)	.98	
ANNUAL RUNOFF (INCHES)	13.34	
10 PERCENT EXCEEDS	151	
50 PERCENT EXCEEDS	42	
90 PERCENT EXCEEDS	14	

- a From rating curve extended above 1,400 ft<sup>3</sup>/s on basis of computation of peak discharge at dam at gage height 6.80 ft and at peak flow.
- b From floodmark in gage.
- c Adjusted for diversion since March 1961.
- d From rating curve extended above 2,400 ft<sup>3</sup>/s on basis of computation of flow at gage height 11.84 ft.
- f Site and datum then in use.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002