

**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 sea level. 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	41	36	42	103	38	131	43	43	59	46	54
2	48	38	39	46	89	38	112	45	63	61	44	52
3	60	36	37	38	72	36	95	44	45	59	49	48
4	59	36	36	42	61	43	88	57	46	59	84	47
5	51	36	38	42	63	75	78	62	45	67	71	47
6	47	35	37	43	59	58	79	58	55	50	49	48
7	42	35	38	44	60	55	75	51	56	46	49	50
8	41	36	37	43	60	53	69	43	57	51	50	49
9	44	37	35	37	62	51	75	58	58	46	50	46
10	47	57	36	34	79	46	81	49	56	45	50	46
11	46	37	35	35	60	43	86	53	56	52	56	48
12	44	35	36	35	53	43	88	61	63	46	91	43
13	44	41	35	35	52	112	74	61	101	49	111	42
14	44	42	112	34	54	76	64	59	58	68	69	42
15	43	39	63	36	52	62	62	55	55	42	54	42
16	44	37	54	38	53	66	124	50	79	40	53	39
17	46	38	527	36	75	76	96	50	75	46	51	38
18	56	36	109	34	50	68	99	47	63	48	51	37
19	45	36	69	89	45	56	79	50	57	50	51	37
20	44	38	54	120	46	55	73	48	61	46	96	51
21	46	38	46	67	44	180	70	76	60	48	49	116
22	42	40	46	52	40	245	65	81	58	47	48	41
23	41	43	36	55	41	126	61	73	354	46	46	41
24	42	43	48	47	40	99	56	48	86	48	47	64
25	45	44	48	41	46	85	58	56	69	47	45	207
26	45	62	59	36	54	76	56	68	58	46	45	44
27	46	47	57	38	43	68	54	73	54	53	45	38
28	46	35	53	34	37	61	47	58	50	48	45	40
29	41	37	46	36	---	73	43	43	47	47	45	38
30	40	46	46	128	---	449	41	53	52	49	44	38
31	41	---	44	126	---	179	---	47	---	50	51	---
TOTAL	1418	1201	1992	1563	1593	2791	2279	1720	2080	1559	1735	1573
MEAN	45.7	40.0	64.3	50.4	56.9	90.0	76.0	55.5	69.3	50.3	56.0	52.4
MAX	60	62	527	128	103	449	131	81	354	68	111	207
MIN	40	35	35	34	37	36	41	43	43	40	44	37
(†)	-19.5	-20.2	-2.3	+2.9	+23.4	+39.4	+37.2	-4.6	+6.9	-36.8	-35.8	-32.9

† 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 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	66.3	61.7	76.8	87.8	102	125	119	88.5	86.3	62.7	55.8	66.1
MAX	269	159	270	264	269	492	372	171	699	185	109	360
(WY)	1980	1997	1997	1996	1971	1994	1993	1975	1972	1970	1996	1975
MIN	18.1	15.8	16.9	19.5	25.7	33.0	31.2	28.8	21.4	17.4	17.1	19.2
(WY)	1967	1966	1966	1966	1969	1969	1969	1969	1966	1966	1966	1966

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1966 - 2001

ANNUAL TOTAL	22937			21504								
ANNUAL MEAN	62.7			58.9			84.2					
HIGHEST ANNUAL MEAN							163					
LOWEST ANNUAL MEAN							33.6					
HIGHEST DAILY MEAN	655			Mar 22			527			Dec 17		
LOWEST DAILY MEAN	31			Feb 6			34			Jan 10, 14, 18, 28		
ANNUAL SEVEN-DAY MINIMUM	36			Nov 3			35			Jan 9		
MAXIMUM PEAK FLOW							880			Dec 17		
MAXIMUM PEAK STAGE							4.90			Dec 17		
10 PERCENT EXCEEDS	90						81			150		
50 PERCENT EXCEEDS	52						48			55		
90 PERCENT EXCEEDS	37						37			34		

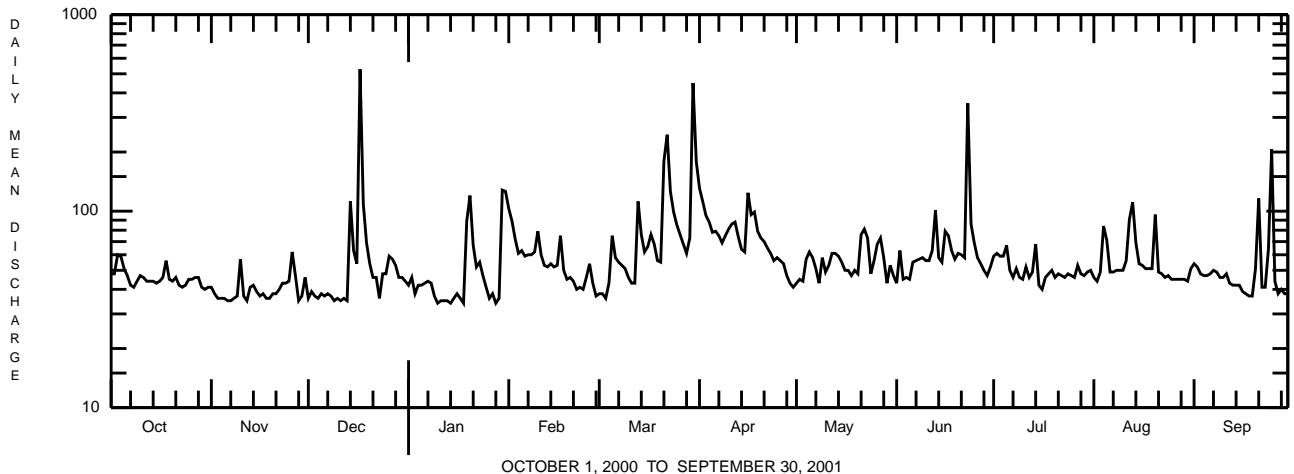
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1964, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	151	148	164	223	244	360	326	206	165	157	321	424
(WY)	1943	1938	1951	1949	1951	1936	1952	1952	1946	1945	1933	1934
MIN	8.76	11.9	18.1	19.5	27.3	50.1	41.3	26.6	19.6	9.09	11.9	8.93
(WY)	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, 2000 TO SEPTEMBER 30, 2001