

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 mi².

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.--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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	45	43	41	41	61	69	42	41	45	60	35
2	47	47	43	42	109	41	65	43	50	53	52	38
3	44	47	45	220	68	46	51	46	67	72	47	41
4	55	48	46	69	48	107	46	44	46	48	44	43
5	46	46	43	48	41	70	51	43	48	45	40	52
6	48	48	44	65	38	84	45	45	46	47	40	64
7	47	46	45	58	42	91	43	46	46	48	39	77
8	116	46	46	54	53	66	41	72	46	47	41	43
9	89	46	50	176	42	61	78	47	50	46	39	48
10	92	55	46	92	39	61	123	45	54	47	40	50
11	49	62	45	57	e38	56	111	44	55	46	37	47
12	43	50	44	57	40	51	128	51	52	44	41	42
13	49	47	44	67	43	47	83	84	53	36	40	39
14	46	49	43	56	35	50	71	43	58	31	46	39
15	43	46	43	60	38	61	63	47	60	30	46	53
16	46	42	43	55	39	70	68	44	45	20	36	389
17	47	43	43	87	53	87	61	40	48	20	40	154
18	46	44	42	435	94	82	52	45	58	23	e36	50
19	46	45	44	148	62	66	47	43	40	40	e41	48
20	49	46	53	72	46	60	51	46	40	45	e45	40
21	48	46	53	54	41	94	47	45	43	42	64	45
22	45	43	50	58	43	157	92	44	41	51	43	42
23	45	45	44	e55	50	90	87	59	42	35	41	32
24	46	43	44	e218	47	80	81	59	43	38	39	39
25	47	43	41	e88	40	72	62	45	41	42	42	39
26	45	61	50	60	44	63	54	43	44	40	45	39
27	46	45	49	47	41	59	50	45	45	43	57	40
28	46	46	55	42	67	56	46	44	50	45	42	48
29	45	45	55	38	---	53	45	42	50	56	40	44
30	44	44	50	36	---	48	41	42	48	63	41	150
31	44	---	42	39	---	44	---	44	---	60	38	---
TOTAL	1598	1409	1428	2694	1382	2134	1952	1472	1450	1348	1342	1910
MEAN	51.5	47.0	46.1	86.9	49.4	68.8	65.1	47.5	48.3	43.5	43.3	63.7
MAX	116	62	55	435	109	157	128	84	67	72	64	389
MIN	43	42	41	36	35	41	41	40	40	20	36	32
(†)	-24.2	-27.1	-34.5	+15.1	+13.7	+33.2	+25.5	-5.7	-28.7	-38.2	-40.5	-3.9

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

e Estimated.

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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 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	67.4	63.0	77.8	90.3	104	126	121	90.5	87.6	63.2	55.9	66.5
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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1966 - 1999

ANNUAL TOTAL	37706			20119			85.6			1972		
ANNUAL MEAN	103			55.1			163			1972		
HIGHEST ANNUAL MEAN							33.6			1969		
LOWEST ANNUAL MEAN							11000			Jun 22 1972		
HIGHEST DAILY MEAN	1090			Jun 24			435			Jan 18		
LOWEST DAILY MEAN	41			Sep 11, 13a			20			Jul 16, 17		
ANNUAL SEVEN-DAY MINIMUM	43			Dec 12			29			Jul 13		
INSTANTANEOUS PEAK FLOW							894			Jan 18		
INSTANTANEOUS PEAK STAGE							4.94			Jan 18		
10 PERCENT EXCEEDS	196						72			154		
50 PERCENT EXCEEDS	63						46			55		
90 PERCENT EXCEEDS	44						40			33		

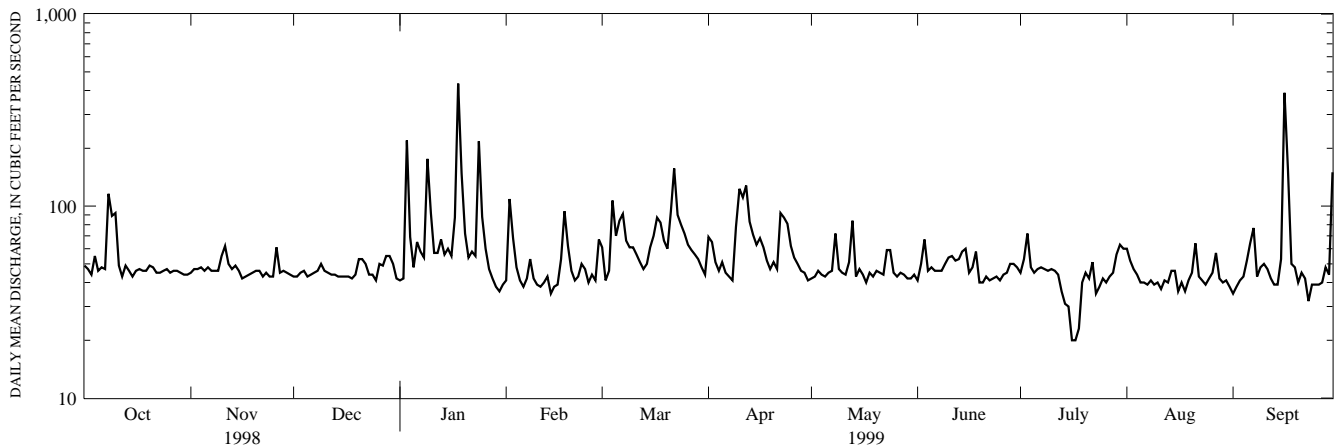
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1964, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	d74.1		
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		
INSTANTANEOUS PEAK FLOW	f11200 Aug 23 1933		
INSTANTANEOUS PEAK STAGE	g11.84 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 Also Dec. 25.
- b From rating curve extended above 1,400 ft³/s on basis of computation of peak discharge at dam at gage height 6.80 ft and at peak flow.
- c From floodmark in gage.
- d Adjusted for diversion since March 1961.
- f From rating curve extended above 2,400 ft³/s on basis of computation of flow at gage height 11.84 ft.
- g Site and datum then in use.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999