

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 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	57	37	260	38	56	109	48	179	84	68	73
2	32	46	36	430	37	134	98	46	143	83	89	191
3	33	41	35	321	36	221	88	45	145	88	63	89
4	59	39	33	225	61	98	83	43	440	80	64	306
5	34	39	37	137	43	141	86	46	362	74	65	133
6	34	54	38	112	36	417	75	50	248	96	227	93
7	33	41	35	97	41	198	85	44	634	198	79	81
8	33	38	35	102	34	169	109	56	550	89	71	76
9	31	35	34	96	33	521	166	72	409	82	70	72
10	33	35	32	78	35	242	134	76	310	172	68	69
11	164	35	191	67	33	137	150	70	258	90	281	70
12	89	70	245	59	37	149	135	79	227	80	131	67
13	48	84	170	57	43	230	105	71	226	72	88	108
14	37	46	338	55	46	210	93	56	234	70	75	103
15	42	42	178	52	40	159	86	48	194	71	71	98
16	148	49	117	47	35	154	81	192	171	66	104	223
17	89	176	85	50	47	157	77	194	160	70	397	205
18	52	250	70	45	49	138	73	143	160	73	118	194
19	43	87	66	43	37	112	79	121	151	71	88	152
20	42	69	128	43	38	316	70	106	267	65	80	72
21	38	78	73	42	40	426	66	105	322	64	74	75
22	34	95	70	39	320	211	70	98	377	67	72	75
23	29	63	59	39	547	153	66	94	218	94	71	1310
24	30	55	57	41	208	126	58	112	183	113	67	283
25	38	51	78	42	98	110	56	116	160	68	65	244
26	83	47	72	42	70	124	77	209	140	65	69	235
27	46	52	62	40	58	127	64	168	121	63	70	201
28	37	46	56	38	55	98	54	359	106	63	65	238
29	45	42	60	41	---	94	53	283	94	64	66	189
30	96	40	54	35	---	149	50	194	86	60	68	159
31	91	---	59	34	---	141	---	167	---	60	65	---
TOTAL	1674	1902	2640	2809	2195	5718	2596	3511	7275	2555	3049	5484
MEAN	54.0	63.4	85.2	90.6	78.4	184	86.5	113	242	82.4	98.4	183
MAX	164	250	338	430	547	521	166	359	634	198	397	1310
MIN	29	35	32	34	33	56	50	43	86	60	63	67
(†)	+22.3	+43.2	+72.7	+70.4	+55.1	+79.8	+41.5	+5.5	-7.4	-11.7	-4.9	+6.4

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

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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 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	65.4	61.1	76.0	86.6	99.4	124	116	88.0	89.4	62.6	56.6	68.4
MAX (WY)	269	159	270	264	269	492	372	171	699	185	109	360
MIN (WY)	1980	1997	1997	1996	1971	1994	1993	1975	1972	1970	1996	1975
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
MIN (WY)	1967	1966	1966	1966	1969	1969	1969	1969	1966	1966	1966	1966

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1966 - 2003

ANNUAL TOTAL	17456		41408			
ANNUAL MEAN	47.8		113		83.8	
HIGHEST ANNUAL MEAN					163 1972	
LOWEST ANNUAL MEAN					33.6 1969	
HIGHEST DAILY MEAN	338	Dec 14	1310	Sep 23	11000	Jun 22 1972
LOWEST DAILY MEAN	23	Jun 21	29	Oct 23	0.60	Sep 4 1966
ANNUAL SEVEN-DAY MINIMUM	28	Jun 15	35	Dec 4	10	Sep 1 1966
MAXIMUM PEAK FLOW			a2790	Sep 23	a19400	Jun 22 1972
MAXIMUM PEAK STAGE			8.17	Sep 23	b15.57	Jun 22 1972
10 PERCENT EXCEEDS	71		228		152	
50 PERCENT EXCEEDS	38		74		55	
90 PERCENT EXCEEDS	32		37		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)	1943	1938	1951	1949	1951	1936	1952	1952	1946	1945	1933	1934
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
MIN (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 2,000 ft³/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 ft³/s on basis of computation of flow at gage height 11.84 ft.
- f Site and datum then in use.

