



2005 Water Year
CODORUS CREEK BASIN
01574500 Codorus Creek at Spring Grove, PA

Latitude: 39° 52 ' 43"

Longitude: 076° 51 ' 13"

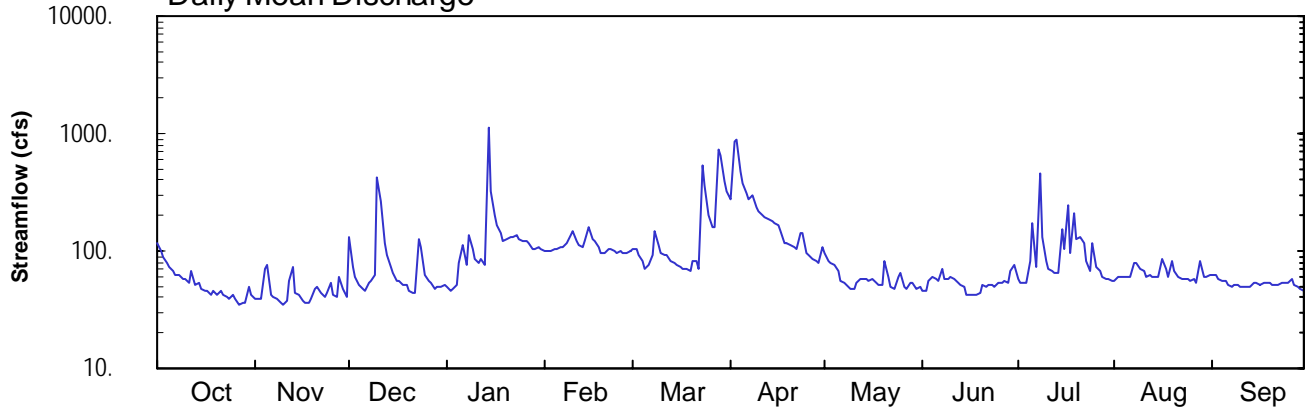
Hydrologic Unit Code: 02050306

York County

Datum: 430.86 feet

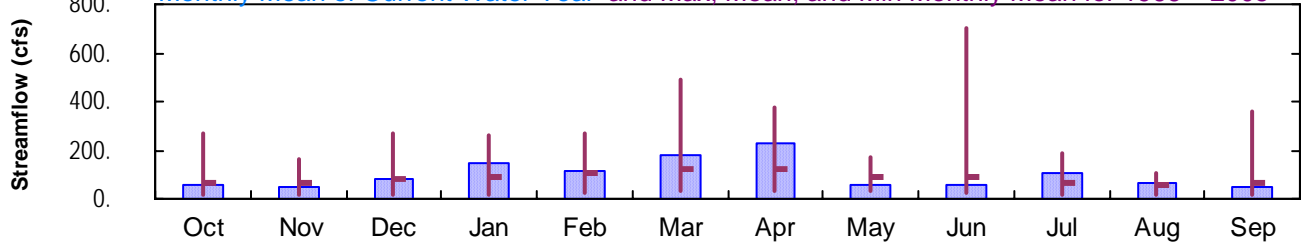
Drainage Area: 75.5 mi²

Daily Mean Discharge

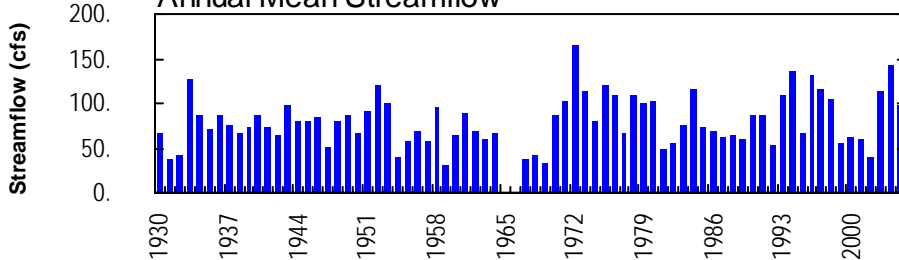


Monthly Statistics

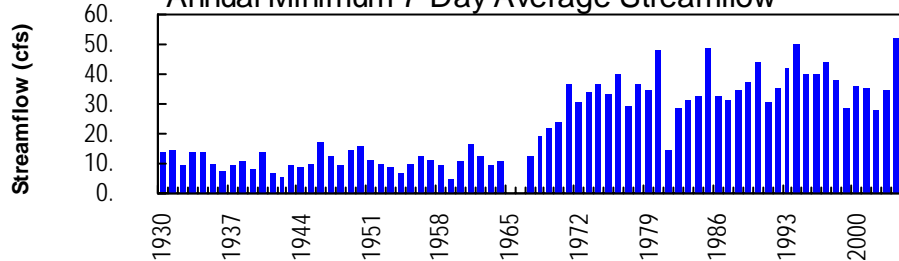
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1966 – 2005



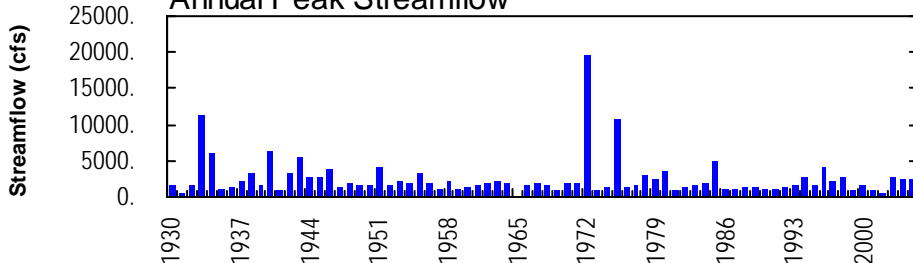
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01574500-Codorus Creek at Spring Grove

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 good. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	39	133	49	100	106	276	95	45	58	56	63
2	99	39	73	46	99	102	856	82	45	54	60	62
3	88	39	60	47	99	93	903	80	55	54	60	59
4	78	70	51	52	102	83	483	77	60	53	60	56
5	72	75	48	80	104	71	370	69	57	83	60	55
6	69	42	45	113	107	76	312	55	56	173	60	52
7	63	40	53	76	110	91	279	53	71	74	78	50
8	62	39	56	137	119	146	303	51	57	462	80	51
9	57	36	62	103	138	112	239	48	57	129	71	51
10	57	35	427	85	147	95	217	47	60	81	68	50
11	54	37	261	80	120	94	203	53	59	71	61	49
12	67	56	119	84	114	92	193	58	54	67	63	50
13	52	72	92	76	108	82	186	57	52	65	60	50
14	54	44	73	1140	122	79	179	57	50	64	60	53
15	48	42	64	320	162	75	171	55	43	155	61	54
16	46	38	56	200	126	73	166	59	43	104	86	52
17	45	36	55	166	120	71	150	53	42	249	71	53
18	42	36	51	140	107	71	118	52	42	96	61	54
19	45	39	52	123	98	69	118	51	44	213	81	54
20	42	48	46	126	96	83	113	82	51	124	68	52
21	45	49	44	131	105	83	110	60	50	131	60	51
22	43	44	44	130	102	71	105	49	51	119	59	52
23	40	41	125	139	99	543	143	48	52	82	59	54
24	39	44	109	124	97	363	141	60	50	69	57	53
25	42	53	62	123	100	199	98	64	54	119	56	54
26	39	42	55	120	97	162	91	50	54	74	57	57
27	35	40	53	115	96	162	86	48	56	68	54	52
28	36	61	48	105	99	739	82	53	54	60	81	50
29	36	48	50	106	---	655	79	54	69	58	60	48
30	50	40	49	109	---	396	108	48	75	57	60	46
31	42	---	51	104	---	321	---	49	---	56	62	---
TOTAL	1705	1364	2567	4549	3093	5458	6878	1817	1608	3322	1990	1587
MEAN	55.0	45.5	82.8	147	110	176	229	58.6	53.6	107	64.2	52.9
MAX	118	75	427	1140	162	739	903	95	75	462	86	63
MIN	35	35	44	46	96	69	79	47	42	53	54	46
(†)	-6.5	+3.4	+24.4	+30.9	-14.4	+26.0	-13.4	-3.3	-26.9	+4.9	-37.4	-43.7

† 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 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	66.2	63.3	80.9	88.2	103	125	121	88.2	90.3	64.1	57.3	69.4
MAX	269	164	270	264	269	492	372	171	699	185	109	360
(WY)	1980	2004	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 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1966 - 2005

ANNUAL TOTAL	41095		35938			
ANNUAL MEAN	112		98.5		85.7	
HIGHEST ANNUAL MEAN					163 1972	
LOWEST ANNUAL MEAN					33.6 1969	
HIGHEST DAILY MEAN	832	Sep 18	1140	Jan 14	11000	Jun 22 1972
LOWEST DAILY MEAN	35	Oct 27	35	Oct 27 ^a	0.60	Sep 4 1966
ANNUAL SEVEN-DAY MINIMUM	38	Oct 23	38	Oct 23	10	Sep 1 1966
MAXIMUM PEAK FLOW			2410	Jan 14	b19400	Jun 22 1972
MAXIMUM PEAK STAGE			7.71	Jan 14	c15.57	Jun 22 1972
10 PERCENT EXCEEDS	196		158		157	
50 PERCENT EXCEEDS	82		62		56	
90 PERCENT EXCEEDS	45		44		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	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
MAXIMUM PEAK FLOW	f11200	Aug 23 1933
MAXIMUM 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 Nov. 10.
- b 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.
- 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.

