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^2.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	39	38	43	40	82	57	67	52	52	60	71
2	49	35	40	38	37	68	56	67	53	52	60	59
3	41	43	38	50	36	61	57	56	48	52	58	109
4	67	35	35	43	38	56	85	53	40	59	63	80
5	74	37	34	40	35	52	61	52	41	50	61	56
6	44	37	59	38	31	47	55	52	67	46	58	54
7	39	36	37	46	35	46	50	46	56	45	60	53
8	44	37	37	38	41	44	68	43	46	50	51	49
9	39	38	35	39	39	43	212	40	49	50	57	56
10	187	39	56	74	40	44	89	49	44	53	56	64
11	85	36	52	67	45	86	74	53	47	48	56	53
12	57	37	35	44	60	130	68	40	54	36	55	50
13	50	35	37	38	41	70	60	38	64	33	53	55
14	41	37	267	36	84	59	58	41	62	36	48	55
15	46	36	152	e34	99	56	57	38	59	108	49	112
16	43	38	76	e38	85	54	58	42	73	67	47	55
17	39	40	58	e34	79	85	95	44	62	56	45	50
18	43	41	51	e45	66	56	230	38	72	57	41	49
19	37	36	45	e39	208	52	136	54	57	64	53	100
20	45	38	49	e37	144	51	91	44	52	73	52	109
21	39	39	58	e35	100	505	118	44	59	58	48	53
22	40	38	44	e37	84	655	169	43	131	50	48	49
23	40	36	38	e36	79	220	135	46	59	46	49	48
24	38	39	34	e34	75	146	101	129	59	49	53	47
25	37	39	31	e34	76	115	85	66	55	51	55	54
26	39	43	33	e39	72	94	74	52	93	56	52	145
27	45	66	51	e37	64	86	67	47	57	64	55	70
28	41	36	67	e39	244	126	62	60	64	55	72	56
29	39	42	e73	e38	100	78	57	90	78	93	54	46
30	39	38	e52	e38	---	68	53	64	69	57	54	50
31	38	---	43	44	---	63	---	56	---	65	54	---
TOTAL	1557	1166	1755	1272	2177	3398	2638	1654	1822	1731	1677	1957
MEAN	50.2	38.9	56.6	41.0	75.1	110	87.9	53.4	60.7	55.8	54.1	65.2
MAX	187	66	267	74	244	655	230	129	131	108	72	145
MIN	37	35	31	34	31	43	50	38	40	33	41	46
(†)	-1.3	-15.0	+8.1	+2.1	+44.5	+73.4	+78.6	+15.4	-10.4	-26.0	-40.0	-16.6

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

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 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	66.9	62.3	77.2	88.9	103	126	120	89.5	86.8	63.0	55.8	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

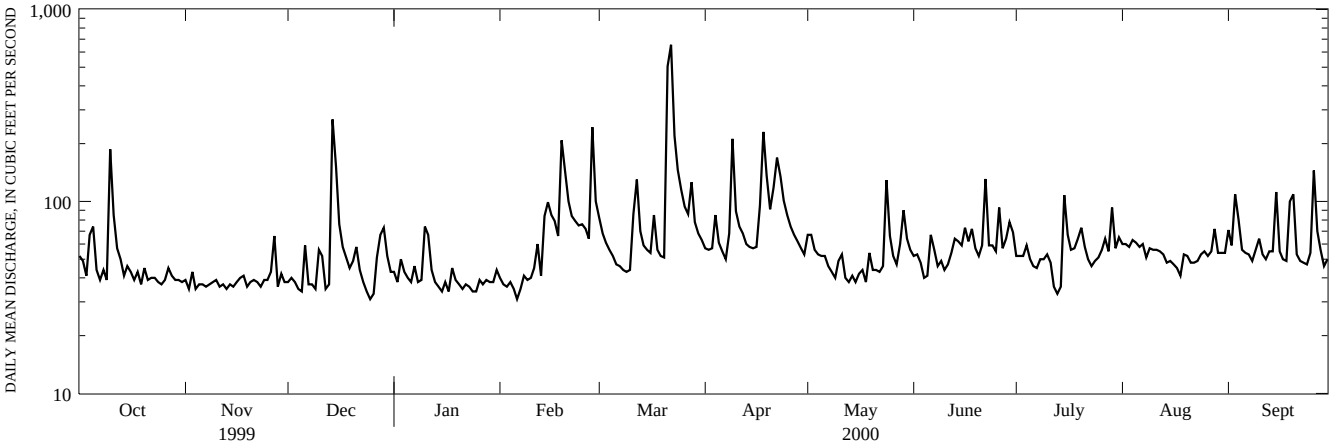
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	20162		22804			
ANNUAL MEAN	55.2		62.3		85.0	
HIGHEST ANNUAL MEAN					163	1972
LOWEST ANNUAL MEAN					33.6	1969
HIGHEST DAILY MEAN	435	Jan 18	655	Mar 22	11000	Jun 22 1972
LOWEST DAILY MEAN	20	Jul 16,17	31	Dec 25,Feb 6	.60	Sep 4 1966
ANNUAL SEVEN-DAY MINIMUM	29	Jul 13	36	Jan 19	10	Sep 1 1966
INSTANTANEOUS PEAK FLOW			1550	Mar 21	**a**19400	Jun 22 1972
INSTANTANEOUS PEAK STAGE			6.58	Mar 21	**b**15.57	Jun 22 1972
10 PERCENT EXCEEDS	76		90		152	
50 PERCENT EXCEEDS	45		52		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	**c**74.1	
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	**d**11200	Aug 23 1933
INSTANTANEOUS PEAK STAGE	**f**11.84	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^3/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^3/s on basis of computation of flow at gage height 11.84 ft.
f Site and datum then in use.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000