

CONODOGUINET CREEK BASIN

01570000 CONODOGUINET CREEK NEAR HOGESTOWN, PA

LOCATION.--Lat 40°15'08", long 77°01'17", Cumberland County, Hydrologic Unit 02050305, on left bank 1,000 ft upstream from highway bridge on Township Route 596 (Sample Bridge Road), 0.4 mi downstream from Hogestown Run, and 1.0 mi northeast of Hogestown.

DRAINAGE AREA.--470 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to September 1917, October 1929 to September 1958, July 1967 to current year. October 1917 to December 1919 (gage heights and discharge measurements only), in reports of Water Supply Commission of Pennsylvania. Published as "*at Brysons Bridge*" 1912-17.

REVISED RECORDS.--WSP 1722: 1913, 1917.

GAGE.--Water-stage recorder. Datum of gage is 351.00 ft above sea level. Prior to December 1919, nonrecording gage at site 2 mi downstream at different datum. Oct. 1, 1929, to Aug. 3, 1931, nonrecording gage at site 1,000 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since June 1969 the Pennsylvania American Water Co. has diverted water upstream from station for municipal supply. Diversion for the year was equivalent to a mean daily discharge of 8.9 ft³/s. Satellite and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 1	0945	4,610	6.97	Mar. 22	1815	*4,740	*7.07

**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	3760	149	468	282	e190	1810	625	648	448	436	1140	232
2	1440	154	398	265	e190	1570	566	592	397	371	660	383
3	903	260	356	255	e180	1350	545	559	355	334	443	878
4	678	384	326	264	e180	1150	733	505	317	321	353	427
5	943	311	300	261	e180	988	1270	465	301	327	302	299
6	952	248	296	243	e180	847	904	444	525	294	263	234
7	657	227	291	223	e190	704	768	431	879	267	279	202
8	483	214	262	209	e195	577	714	396	605	245	344	183
9	396	200	235	202	e200	478	1170	366	451	228	272	166
10	614	194	229	258	e200	441	1020	350	381	230	227	157
11	1780	190	257	493	e200	477	828	333	333	233	205	161
12	1170	183	270	503	e230	1700	740	314	314	229	184	169
13	796	172	243	426	e300	2030	673	307	327	211	170	199
14	680	170	469	367	e500	1320	605	341	358	202	162	202
15	582	171	2200	e270	e1200	1040	565	321	441	454	157	197
16	446	162	1600	e250	e1100	886	541	280	484	641	151	160
17	376	159	1080	e230	e800	940	595	266	557	497	144	144
18	340	152	819	e250	e700	885	815	256	599	417	140	140
19	300	148	666	e240	e600	721	1330	319	467	317	135	156
20	282	143	575	e230	e550	651	1280	442	397	285	134	210
21	292	148	682	e220	e500	945	1140	447	371	279	134	238
22	272	155	679	e230	e600	3950	1960	427	1140	265	127	191
23	246	152	547	e250	e700	3180	2320	602	960	228	127	163
24	226	148	481	e230	e900	1970	1930	897	600	209	125	149
25	216	169	398	e200	e1100	1520	1480	1210	486	199	126	163
26	195	227	355	e210	e1300	1290	1210	760	605	200	123	337
27	182	1090	406	e220	e1200	1080	1050	557	730	197	125	491
28	174	1340	354	e210	e1600	1020	963	500	677	189	204	374
29	165	809	324	e200	2030	916	843	554	753	958	207	288
30	156	598	298	e200	---	811	738	743	539	1060	168	240
31	154	---	291	e190	---	704	---	533	---	549	150	---
TOTAL	19856	8827	16155	8081	17995	37951	29921	15165	15797	10872	7481	7533
MEAN	641	294	521	261	621	1224	997	489	527	351	241	251
MAX	3760	1340	2200	503	2030	3950	2320	1210	1140	1060	1140	878
MIN	154	143	229	190	180	441	541	256	301	189	123	140
CFSM	1.36	.63	1.11	.55	1.32	2.60	2.12	1.04	1.12	.75	.51	.53
IN.	1.57	.70	1.28	.64	1.42	3.00	2.37	1.20	1.25	.86	.59	.60

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

	355	481	647	709	811	1086	940	684	485	328	301	309
MEAN	355	481	647	709	811	1086	940	684	485	328	301	309
MAX	1838	1436	1940	1850	2257	3463	2693	1753	3120	1184	1584	1684
(WY)	1977	1971	1997	1996	1984	1994	1993	1998	1972	1989	1915	1996
MIN	55.1	53.4	57.3	83.5	150	287	268	194	148	98.0	86.5	68.0
(WY)	1931	1931	1931	1931	1931	1931	1915	1941	1991	1930	1932	1932

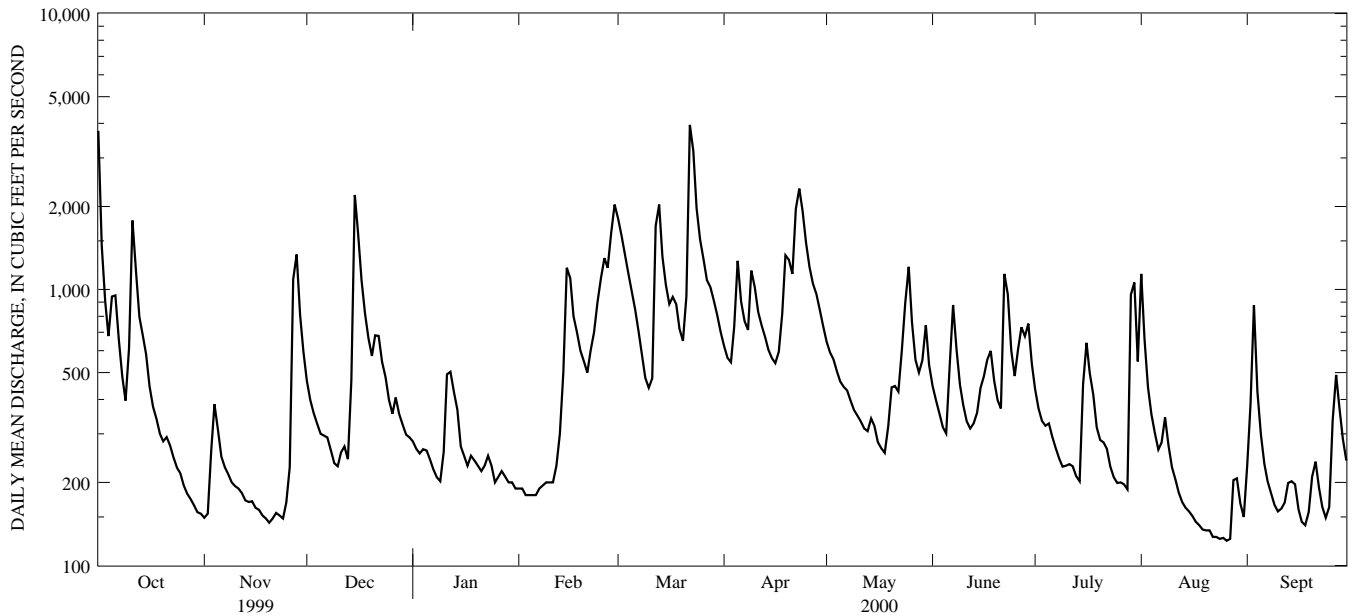
e Estimated.

CONODOGUINET CREEK BASIN

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	172703		195634			
ANNUAL MEAN	473		535		594	
HIGHEST ANNUAL MEAN					1045	1972
LOWEST ANNUAL MEAN					234	1931
HIGHEST DAILY MEAN	4890	Jan 25	3950	Mar 22	24500	Jun 23 1972
LOWEST DAILY MEAN	e70	Jan 2	123	Aug 26	26	Dec 23 1930
ANNUAL SEVEN-DAY MINIMUM	84	Aug 2	127	Aug 21	27	Dec 19 1930
INSTANTANEOUS PEAK FLOW			4740	Mar 22	a33700	Jun 23 1972
INSTANTANEOUS PEAK STAGE			7.07	Mar 22	b17.01	Jun 23 1972
INSTANTANEOUS LOW FLOW			111	Aug 22	24	Dec 16 1930
ANNUAL RUNOFF (CFSM)	1.01		1.14		1.26	
ANNUAL RUNOFF (INCHES)	13.67		15.48		17.17	
10 PERCENT EXCEEDS	1070		1140		1260	
50 PERCENT EXCEEDS	283		354		346	
90 PERCENT EXCEEDS	103		163		120	

a From rating curve extended above 27,100 ft³/s.
 b From floodmark in gage.
 e Estimated.



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

CONODOGUINET CREEK BASIN

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1965, 1967-68, 1971-72, 1974, 1996 to current year.

REMARKS.--These data in the following table were collected as part of a Chesapeake Bay Watershed project to document nutrient and suspended-sediment concentrations, nutrient loads, and trends in nutrient loading.

Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	AGENCY COLLECTING SAMPLE NUMBER (00027)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	
DATE		CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 1999													
26...	1118	80020	1028	237	743	100	11.3	8.3	410	11.0	8.9	--	--
NOV													
22...	1055	80020	1028	162	748	94	10.5	8.0	430	13.8	9.5	190	190
27...	1700	1028	1028	1640	738	93	9.8	--	337	17.8	11.5	--	--
DEC													
09...	1050	80020	1028	242	752	97	12.4	8.2	328	4.6	4.6	130	130
15...	1315	80020	1028	2680	742	98	12.0	7.8	208	10.8	5.5	--	--
JAN 2000													
12...	0950	80020	1028	514	747	90	11.9	8.0	314	3.8	3.0	130	130
FEB													
17...	1415	80020	1028	1710	755	99	13.1	--	255	3.4	3.4	91	91
MAR													
09...	1100	80020	1028	492	736	119	12.5	8.3	354	12.4	11.4	150	150
13...	1045	80020	1028	2070	750	95	11.4	--	224	7.2	6.7	--	--
22...	1310	80020	1028	4390	750	96	11.6	--	219	11.6	6.6	--	--
APR													
14...	1130	80020	1028	606	753	113	12.7	--	340	10.4	9.7	--	--
MAY													
08...	0955	80020	1028	397	741	--	7.4	--	392	27.0	21.4	--	--
08...	0956	80020	1028	--	--	--	--	--	--	--	--	--	--
25...	1110	80020	1028	1270	737	89	8.2	--	292	21.3	17.4	--	--
JUN													
09...	1100	80020	1028	453	749	105	9.6	--	339	23.9	18.9	140	140
JUL													
17...	1130	80020	1028	487	746	98	8.6	--	345	--	20.4	140	140
AUG													
17...	1148	80020	1028	142	750	127	11.0	--	475	--	21.6	--	--
28...	1102	80020	1028	275	--	--	--	8.1	480	--	21.0	--	--
SEP													
19...	1400	80020	1028	161	--	--	12.8	8.3	448	--	17.2	--	--

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, TOTAL (MG/L AS N) (00605)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTH, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	QUALITY ASSUR- ANCE DATA INDICA- TOR CODE (99111)	SAMPLE PURPOSE CODE (71999)	SAMPLER TYPE CODE (84164)	SAM- PLING METHOD, CODES (82398)
OCT 1999												
26...	<.020	--	--	3.8	--	3.8	--	3.58	--	<.010	--	--
NOV												
22...	<.020	--	--	3.7	--	3.6	--	3.43	--	<.010	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
09...	<.020	--	--	3.2	--	3.1	--	2.92	--	<.010	--	--
15...	.060	2.05	.40	4.1	.08	2.5	9.07	2.06	.039	.012	2.0	.055
JAN 2000												
12...	.021	2.96	.19	3.3	.03	3.2	13.1	2.99	.089	.027	.26	--
FEB												
17...	.027	3.22	.19	3.8	.03	3.4	14.2	3.23	.033	.010	.51	.031
MAR												
09...	<.020	--	--	3.6	--	3.5	--	3.34	--	<.010	--	--
13...	.060	2.36	.60	3.1	.08	3.0	10.4	2.37	.043	.013	.68	.046
22...	.132	2.22	.34	4.1	.17	2.7	9.83	2.23	.043	.013	1.7	.055
APR												
14...	<.020	--	--	3.0	--	3.0	--	2.79	--	<.010	--	--
MAY												
08...	.021	2.94	.19	3.2	.03	3.2	13.0	2.97	.072	.022	.25	--
08...	<.020	2.99	--	3.3	--	3.2	13.2	3.01	.076	.023	--	--
25...	.090	2.58	.38	3.4	.12	3.1	11.4	2.62	.118	.036	.65	.086
JUN												
09...	.021	3.07	.29	3.4	.03	3.4	13.6	3.08	.049	.015	.34	.058
JUL												
17...	.045	3.31	.37	4.6	.06	3.7	14.7	3.34	.079	.024	1.2	.064
AUG												
17...	<.020	3.73	--	4.1	--	4.0	16.5	3.74	.053	.016	--	.043
28...	.023	3.90	.18	4.2	.03	4.1	17.3	3.92	.046	.014	.25	.034
SEP												
19...	<.020	--	--	3.8	--	3.7	--	3.47	--	<.010	--	.037

CONODOGUINET CREEK BASIN

01570000 CONODOGUINET CREEK NEAR HOGESTOWN, PA--Continued

REMARKS.--The following analyses are quality control samples processed during the 2000 water year and are defined in the explanation of records section entitled, "Water Quality-Control Data".

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	
MAR 2000 09...	1101	80020	1028	<.02	<.01	<.2	<.1	<.3	<.1	<.1	<.3	
DATE		NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)
MAR 2000 09...		<.10	<.10	<.020	<.050	<.010	<.006	<.010	<.008	<10	<10	<2