

CONESTOGA RIVER BASIN

01576527 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN AT LAMPETER, PA

LOCATION.--Lat 39°59'47", long 76°14'59", Lancaster County, Hydrologic unit 02050306, on right bank 30 ft upstream of box culvert on Mentzer Road, and 0.5 mi northwest of Lampeter.

DRAINAGE AREA.--0.36 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1993 to July 2001 (discontinued).

GAGE.--Water-stage recorder and wooden weir control. Datum of gage is 344.19 ft above sea level.

REMARKS.--No estimated daily discharges. Records poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 22	1925	*150	*4.77	No other peak greater than base discharge.			

REVISIONS.--The annual maximum reported for water years 1996, 1999, and 2000 have been revised as shown in the following table.

Water Year	Date	Discharge ft ³ /s	Gage Height (ft)
1996	June 19, 1996	*138	*4.25
1999	Sept. 16, 1999	*131	*4.08
2000	Sept. 14, 2000	*104	*3.60

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.08	.06	.12	.74	.26	.59	.17	.33	.36	---	---
2	.12	.08	.06	.12	.52	.26	.48	.17	.24	.21	---	---
3	.12	.08	.06	.10	.33	.20	.41	.17	.16	.16	---	---
4	.16	.08	.06	.10	.29	.37	.36	.17	.12	.28	---	---
5	.13	.08	.06	.11	.33	.52	.33	.16	.11	.43	---	---
6	.12	.08	.06	.12	.36	.36	.42	.15	.11	.20	---	---
7	.10	.08	.05	.14	.39	.64	.33	.15	.12	.16	---	---
8	.10	.07	.05	.14	.34	.46	.33	.15	.12	.25	---	---
9	.10	.07	.05	.14	1.3	.39	.46	.17	.11	.35	---	---
10	.10	.29	.05	.13	1.5	.32	.35	.15	.10	.22	---	---
11	.10	.08	.05	.12	.42	.30	.58	.15	.12	.16	---	---
12	.10	.08	.06	.12	.33	.28	.39	.15	.12	.13	---	---
13	.10	.06	.06	.12	.32	1.4	.35	.13	.10	.12	---	---
14	.10	.15	1.6	.12	.35	.47	.31	.13	.10	.12	---	---
15	.10	.07	.14	.31	.33	.35	.42	.13	.12	.10	---	---
16	.10	.06	.29	.16	.56	.48	.81	.13	.95	.09	---	---
17	.14	.06	4.9	.15	.57	.54	.56	.14	.39	.09	---	---
18	.18	.06	.39	.15	.31	.39	1.0	.14	.13	.09	---	---
19	.10	.06	.25	3.1	.29	.30	.44	.12	.11	.08	---	---
20	.09	.06	.19	1.4	.27	.29	.38	.12	.75	.07	---	---
21	.09	.06	.16	.42	.24	1.8	.35	.51	.21	.06	---	---
22	.09	.06	.15	.28	.20	.71	.31	.30	15	.06	---	---
23	.09	.06	.14	.26	.22	.45	.26	.21	1.5	.05	---	---
24	.09	.05	.13	.21	.19	.36	.26	.13	.42	.05	---	---
25	.09	.05	.15	.19	.51	.29	.23	.16	.31	.05	---	---
26	.09	.35	.12	.17	.37	.30	.22	.82	.26	.04	---	---
27	.09	.07	.12	.17	.29	.29	.21	.55	.24	.04	---	---
28	.09	.06	.12	.15	.27	.26	.20	.21	.22	.04	---	---
29	.08	.10	.18	.14	---	.80	.18	.17	.23	.04	---	---
30	.08	.08	.12	1.8	---	5.1	.18	.14	.24	.04	---	---
31	.08	---	.12	1.7	---	.84	---	.11	---	.03	---	---
TOTAL	3.25	2.67	10.00	12.46	12.14	19.78	11.70	6.26	23.04	4.17	---	---
MEAN	.10	.089	.32	.40	.43	.64	.39	.20	.77	.13	---	---
MAX	.18	.35	4.9	3.1	1.5	5.1	1.0	.82	.15	.43	---	---
MIN	.08	.05	.05	.10	.19	.20	.18	.11	.10	.03	---	---
CFSM	.29	.25	.90	1.12	1.20	1.77	1.08	.56	2.13	.37	---	---
IN.	.34	.28	1.03	1.29	1.25	2.04	1.21	.65	2.38	.43	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

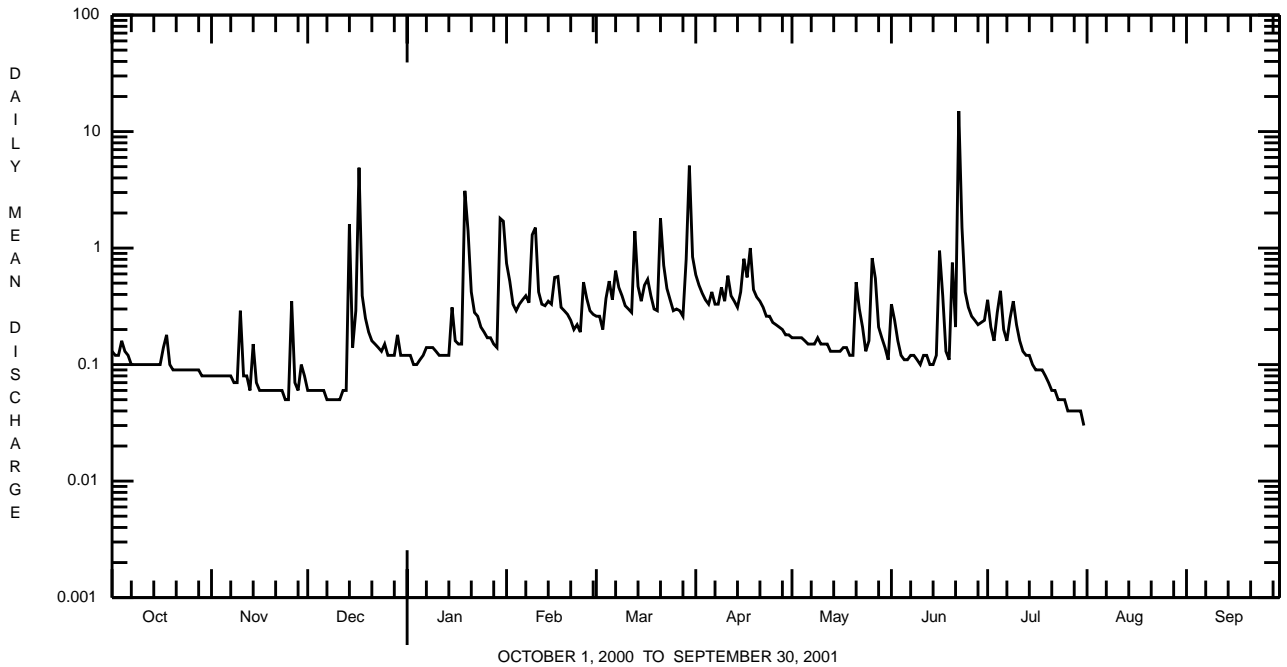
MEAN	.34	.43	.60	.65	.80	.98	.47	.36	.42	.27	.19	.36
MAX	1.10	1.04	1.88	1.90	2.27	2.36	.81	.77	.77	.53	.54	1.14
(WY)	1997	1997	1997	1996	1995	1994	1998	1998	2001	1996	1994	1999
MIN	.026	.006	.001	.15	.42	.53	.19	.18	.093	.003	.031	.003
(WY)	1998	1999	1999	2000	1999	1999	1995	1999	1999	1999	1999	1998

CONESTOGA RIVER BASIN

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	134.22					
ANNUAL MEAN	.37				.48	
HIGHEST ANNUAL MEAN					.66 1996	
LOWEST ANNUAL MEAN					.29 1999	
HIGHEST DAILY MEAN	11	Mar 21	15	Jun 22	27	Feb 6 1995
LOWEST DAILY MEAN	e.00	Aug 13a	.03	Jul 31	.00	Aug 29 1995b
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 6c	.04	Jul 25	.00	Aug 29 1995d
MAXIMUM PEAK FLOW			f150	Jun 22	f150	Jun 22 2001
MAXIMUM PEAK STAGE			4.77	Jun 22	4.77	Jun 22 2001
INSTANTANEOUS LOW FLOW			.03	Jul 31	.00	Aug 28 1995d
ANNUAL RUNOFF (CFSM)	1.02				1.32	
ANNUAL RUNOFF (INCHES)	13.87				17.95	
10 PERCENT EXCEEDS	.77		.53		.87	
50 PERCENT EXCEEDS	.17		.16		.20	
90 PERCENT EXCEEDS	.05		.06		.00	

- a Also Aug. 19-22, Sept. 9-12.
- b Many days.
- c Computed using estimated daily discharges.
- d First occurrence.
- e Estimated.
- f From rating curve extended above 100 ft³/s.



CONESTOGA RIVER BASIN

01576527 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN AT LAMPETER, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1993 to July 2001 (discontinued).

INSTRUMENTATION.--Automatic pumping sampler since March 1994.

REMARKS.--Fixed-time, base flow, and stormflow samples collected at streamflow control. Constituent values for stormflow water quality are for discharge-weighted composite samples. Samples with two dates are composited samples; sample time is the composite start time, discharge is the mean for the composited period. Some values for "dissolved ortho-phosphorus" exceed values for "dissolved phosphorus". 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 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 0000												
04...	0900	80020	1028	--	.12	1100	13.3	8.2	2440	16.1	--	--
16...	1020	80020	1028	--	.10	4.1	7.0	7.6	782	14.2	E.029	.29
24...	0920	80020	1028	--	.09	2.8	9.2	7.6	779	12.4	<.041	.15
NOV 02...	0820	80020	1028	--	.08	7.6	10.2	7.8	746	9.5	E.026	.29
NOV 10-10	0407	1028	1028	1.4	--	--	--	--	--	--	.516	1.6
NOV 14-14	0925	80020	1028	.94	--	--	--	--	--	--	.182	.88
14...	1100	80020	1028	--	.39	--	9.7	7.9	--	10.5	.305	.86
DEC 12...	0915	80020	1028	--	.05	4.3	12.3	8.8	745	5.7	.050	.26
DEC 14-14	0322	80020	1028	5.1	--	--	--	--	--	--	.397	1.2
DEC 16-16	1515	80020	1028	1.1	--	--	--	--	--	--	.132	1.9
JAN 2001 09...	0945	80020	1028	--	.14	5.5	14.2	--	1040	2.4	<.041	.20
JAN 30-30	1145	80020	1028	3.2	--	--	--	--	--	--	.852	2.7
JAN 31-31	1445	80020	1028	4.2	--	--	--	--	--	--	.273	1.2
FEB 13...	0910	80020	1028	--	.33	2.7	14.6	8.1	781	5.3	<.041	.17
MAR 12...	0910	80020	1028	--	.26	1.4	13.9	7.7	764	5.1	<.041	.24
MAR 12-13	2345	80020	1028	3.4	--	--	--	--	--	--	.047	1.0
MAR 21-21	1525	80020	1028	4.2	--	--	--	--	--	--	.161	1.1
29...	0945	80020	1028	--	.26	1.7	15.3	8.2	727	6.9	<.041	.22
MAR 29-30	2215	80020	1028	8.9	--	--	--	--	--	--	.119	.87
APR 10...	0930	80020	1028	--	.33	6.0	11.8	8.0	700	10.8	<.041	.22
19...	0930	80020	1028	--	.43	5.9	13.0	7.7	675	7.7	<.041	.27
MAY 01...	0930	80020	1028	--	.18	3.8	9.9	7.3	748	11.6	E.026	.21
09...	0800	80020	1028	--	.18	15	7.9	7.2	750	12.6	<.041	.24
16...	1200	80020	1028	--	.14	31	10.7	7.6	763	16.0	.046	.52
MAY 21-21	0815	80020	1028	.92	--	--	--	--	--	--	.276	.98
MAY 21-21	1752	80020	1028	.90	--	--	--	--	--	--	.128	1.0
MAY 26-26	0635	80020	1028	1.8	--	--	--	--	--	--	.062	1.2
29...	1000	80020	1028	--	.20	11	8.0	7.5	726	14.4	.047	.38
JUN 01-01	2015	80020	1028	1.7	--	--	--	--	--	--	E.026	.60
07...	0930	80020	1028	--	.12	12	7.2	7.4	749	15.1	E.030	.23
JUN 16-16	1247	80020	1028	2.7	--	--	--	--	--	--	.268	.39
19...	0945	80020	1028	--	.12	9.3	7.1	8.0	752	17.2	.091	.28
JUN 20-20	1850	80020	1028	4.1	--	--	--	--	--	--	.540	1.6
JUN 22-22	1357	80020	1028	51	--	--	--	--	--	--	<.040	.97
JUL 03...	1015	80020	1028	--	.16	16	9.0	7.8	745	17.5	E.028	.23

CONESTOGA RIVER BASIN

01576527 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN AT LAMPETER, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)
OCT 2000								
04...	210	--	--	--	--	30.6	--	1300
16...	.48	7.97	.035	.091	--	.147	--	3
24...	.27	8.01	.021	.053	--	.074	33000	18
NOV								
02...	.37	7.89	.023	.056	--	.091	--	38
NOV								
10-10	3.9	3.15	.237	.235	.211	.989	--	249
NOV								
14-14	1.9	4.19	.057	.136	.097	.410	--	96
14...	1.1	3.06	.048	.167	--	.247	98000	35
DEC								
12...	.29	8.18	.022	.049	--	.064	10000	6
DEC								
14-14	2.4	1.74	.031	.231	.236	.688	--	260
DEC								
16-16	3.9	3.68	.038	.103	.018	.594	--	154
JAN 2001								
09...	.10	9.91	.007	.009	--	.011	58000	11
JAN								
30-30	3.2	2.88	.030	.257	.203	.372	--	56
JAN								
31-31	2.2	3.03	.028	.360	.312	.719	--	152
FEB								
13...	.24	10.6	.006	.013	--	.020	160k	7
MAR								
12...	.18	10.9	.011	.006	E.009	.008	9k	6
MAR								
12-13	2.8	3.16	.038	.145	.043	.684	--	245
MAR								
21-21	3.3	2.41	.027	.178	.145	1.28	--	634
29...	.18	10.2	E.005	E.004	--	.007	--	6
MAR								
29-30	2.6	1.96	.021	.222	.223	1.04	--	439
APR								
10...	.29	9.31	.013	E.005	--	.015	--	15
19...	.30	8.97	.009	.006	--	.016	--	21
MAY								
01...	.21	9.93	.025	.015	--	.021	750	9
09...	.55	9.57	.035	.034	--	.086	--	21
16...	.99	--	.071	.116	--	.238	--	13
MAY								
21-21	1.7	2.30	.069	.111	.072	.387	--	150
MAY								
21-21	1.6	2.27	.085	.154	.080	.330	--	72
MAY								
26-26	2.3	1.68	.092	.287	.183	.585	--	109
29...	.45	9.47	.037	.062	--	.101	20000	18
JUN								
01-01	1.7	2.45	.063	.124	.076	.427	--	153
07...	.42	8.87	.056	.055	--	.075	--	14
JUN								
16-16	2.2	1.50	.101	.244	.230	.677	--	182
19...	.40	7.77	.049	.066	.057	.094	14000	93
JUN								
20-20	3.8	1.82	.087	.456	.372	1.33	--	302
JUN								
22-22	7.9	3.37	.081	.579	.456	4.31	--	2100
JUL								
03...	.43	8.66	.024	.055	.025	.090	--	40