

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 current year.

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

REMARKS.--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)
Sept. 16	1450	*148	*4.08	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.19	.41	.44	.19	.10	.00	.00	.00
2	.00	.00	.00	.00	1.1	.30	.30	.19	.23	.04	.00	.00
3	.00	.00	.00	1.5	.46	.50	.26	.22	.17	.03	.00	.00
4	.03	.00	.00	.08	.35	1.3	.22	.19	.11	.02	.00	.00
5	.00	.00	.00	.04	.29	.56	.25	.19	.11	.00	.00	.05
6	.00	.00	.00	.02	.28	.65	.22	.19	.10	.00	.00	.08
7	.00	.00	.00	.02	.27	.44	.16	.19	.08	.00	.00	2.2
8	1.8	.00	.01	.01	.43	.33	.16	.47	.05	.00	.00	.01
9	1.4	.00	.01	1.3	.28	.31	1.0	.19	.04	.00	.00	.11
10	.53	.00	.00	.10	.26	.31	.69	.17	.04	.00	.00	.04
11	.10	.02	.00	.06	.24	.29	.80	.15	.03	.00	.00	.00
12	.07	.01	.00	.06	.97	.27	.67	.27	.03	.00	.00	.00
13	.04	.00	.00	.06	.63	.25	.49	.40	.03	.00	.00	.00
14	.02	.00	.00	.04	.36	.28	.42	.17	.06	.00	.80	.00
15	.02	.00	.00	1.1	.31	.54	.36	.13	.08	.00	.00	.14
16	.01	.00	.00	.49	.28	.73	.43	.10	.04	.00	.00	e26
17	.01	.00	.00	.88	.34	.65	.23	.12	.87	.00	.00	.67
18	.01	.00	.00	6.2	1.3	.49	.27	.13	.37	.00	.00	.17
19	.01	.00	.00	.67	.52	.37	.27	.20	.05	.00	.00	.13
20	.01	.00	.00	.35	.38	.33	.25	.11	.03	.00	.00	.26
21	.01	.00	.00	.43	.33	1.6	.24	.09	.03	.00	.00	.41
22	.00	.00	.00	.39	.28	2.0	.48	.09	.03	.00	.00	.69
23	.00	.00	.00	.37	.24	.64	.47	.18	.03	.00	.00	.26
24	.00	.00	.00	2.4	.24	.53	.28	.34	.02	.00	.00	.23
25	.00	.00	.00	.63	.24	.43	.24	.15	.02	.00	.00	.20
26	.00	.15	.00	.40	.23	.37	.24	.15	.02	.00	.16	.17
27	.00	.01	.00	.32	.21	.35	.24	.15	.01	.00	.00	.18
28	.00	.00	.00	.29	.65	.39	.22	.15	.00	.00	.00	.17
29	.00	.00	.00	.26	---	.31	.21	.13	.00	.00	.00	.16
30	.00	.00	.00	.23	---	.29	.20	.15	.00	.00	.00	1.9
31	.00	---	.00	.20	---	.28	---	.12	---	.00	.00	---
TOTAL	4.07	0.19	0.02	18.90	11.66	16.50	10.71	5.67	2.78	0.09	0.96	34.23
MEAN	.13	.006	.001	.61	.42	.53	.36	.18	.093	.003	.031	1.14
MAX	1.8	.15	.01	6.2	1.3	2.0	1.0	.47	.87	.04	.80	.26
MIN	.00	.00	.00	.00	.19	.25	.16	.09	.00	.00	.00	.00
CFSM	.36	.02	.00	1.69	1.16	1.48	.99	.51	.26	.01	.09	3.17
IN.	.42	.02	.00	1.95	1.20	1.70	1.11	.59	.29	.01	.10	3.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	.38	.52	.68	.78	.88	1.03	.49	.37	.37	.29	.21	.33
MAX	1.10	1.04	1.88	1.90	2.27	2.36	.81	.77	.68	.53	.54	1.14
(WY)	1997	1997	1997	1996	1995	1994	1998	1998	1996	1996	1994	1999
MIN	.026	.006	.001	.29	.42	.53	.19	.18	.093	.003	.031	.003
(WY)	1998	1999	1999	1994	1999	1999	1995	1999	1999	1999	1999	1998

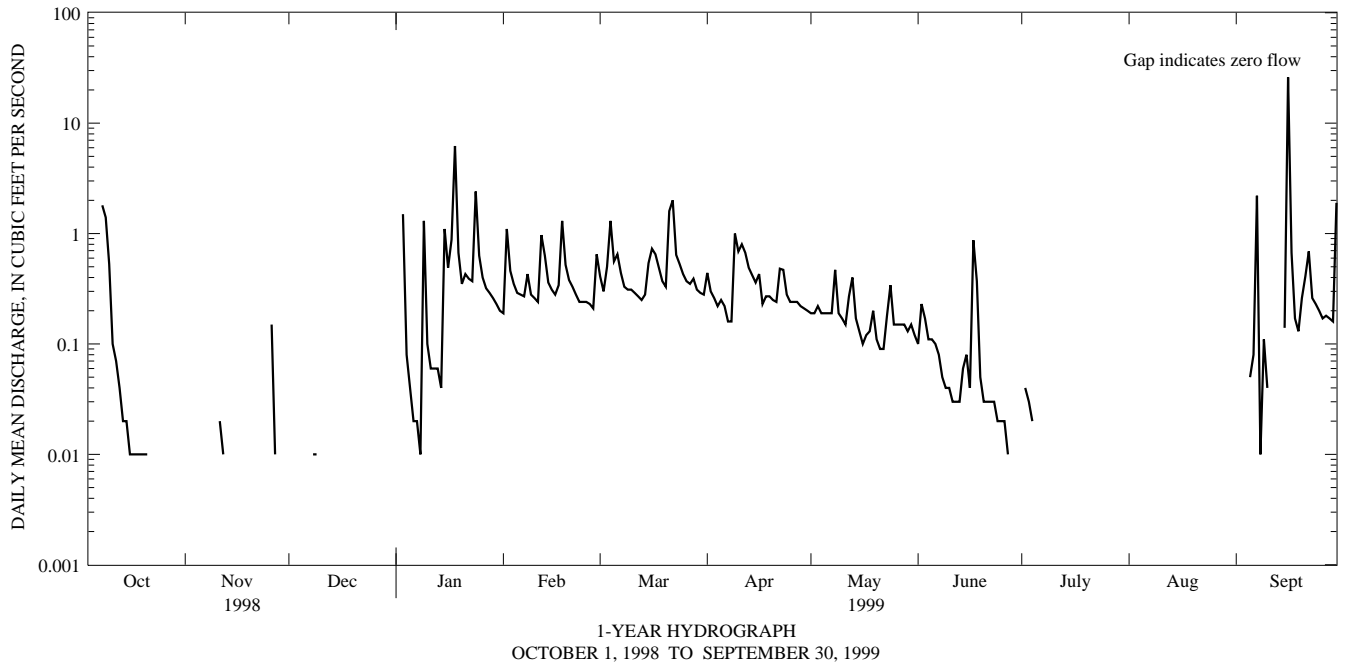
e Estimated.

CONESTOGA RIVER BASIN

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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	164.71		105.78			
ANNUAL MEAN	.45		.29		.49	
HIGHEST ANNUAL MEAN					.66	
LOWEST ANNUAL MEAN					.29	
HIGHEST DAILY MEAN	8.8	Mar 21	26	Sep 16	27	Feb 6 1995
LOWEST DAILY MEAN	.00	Aug 27	.00	Oct 1 ^a	.00	Aug 29 1995 ^a
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 27	.00	Oct 22 ^b	.00	Aug 29 1995 ^b
INSTANTANEOUS PEAK FLOW			c148	Sep 16	c157	Jun 19 1996
INSTANTANEOUS PEAK STAGE			d4.08	Sep 16	4.25	Jun 19 1996
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Aug 28 1995
ANNUAL RUNOFF (CFSM)	1.25		.81		1.36	
ANNUAL RUNOFF (INCHES)	17.02		10.93		18.50	
10 PERCENT EXCEEDS	1.3		.53		.93	
50 PERCENT EXCEEDS	.18		.05		.20	
90 PERCENT EXCEEDS	.00		.00		.00	

- a Many days.
- b First occurrence.
- c From rating curve extended above 100 ft³/s.
- d Maximum recorded, may have been higher during period of recorder malfunction, Sept. 16.



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 current year.

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" 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 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT 1998											
08-08	0845	80020	1028	3.4	--	--	--	--	--	--	--
OCT											
09-10	2037	80020	1028	6.9	--	--	--	--	--	--	--
15...	1005	80020	1028	--	.02	5.5	7.7	714	12.1	--	--
NOV											
26-26	0602	80020	1028	.38	--	--	--	--	--	--	--
JAN 1999											
13...	1010	80020	1028	--	.05	--	7.8	716	5.8	110	15
JAN											
24-24	0727	80020	1028	6.3	--	--	--	--	--	--	--
FEB											
02-02	0815	80020	1028	2.8	--	--	--	--	--	--	--
09...	1025	80020	1028	--	.28	16.0	7.9	680	5.7	--	--
FEB											
18-18	0745	80020	1028	3.4	--	--	--	--	--	--	--
MAR											
03-04	2245	80020	1028	3.5	--	--	--	--	--	--	--
09...	1110	80020	1028	--	.31	16.4	7.9	704	5.2	--	--
MAR											
21-22	2015	80020	1028	7.2	--	--	--	--	--	--	--
APR											
08...	0920	80020	1028	--	.19	12.3	7.7	693	11.4	--	--
APR											
09-09	1345	80020	1028	2.5	--	--	--	--	--	--	--
APR											
09-09	1952	80020	1028	3.0	--	--	--	--	--	--	--
APR											
11-11	1817	80020	1028	2.6	--	--	--	--	--	--	--
20...	1100	80020	1028	--	.28	11.9	7.7	651	8.9	--	--
APR											
22-22	0545	80020	1028	1.2	--	--	--	--	--	--	--
29...	0825	80020	1028	--	.24	11.1	7.7	658	10.3	--	--
MAY											
11...	0725	80020	1028	--	.16	9.7	7.4	740	11.2	--	--
MAY											
12-13	2307	80020	1028	2.2	--	--	--	--	--	--	--
MAY											
13-13	0245	80020	1028	1.1	--	--	--	--	--	--	--
19...	0945	80020	1028	--	.21	7.7	7.3	658	15.6	--	--
MAY											
24-24	1022	80020	1028	.90	--	--	--	--	--	--	--
28...	0900	80020	1028	--	.16	7.3	7.4	746	13.8	--	--
JUN											
02-02	1727	80020	1028	.67	--	--	--	--	--	--	--
10...	0920	80020	1028	--	.04	--	7.5	744	17.5	--	--
JUN											
17-18	1945	80020	1028	3.2	--	--	--	--	--	--	--
18...	1035	80020	1028	--	.24	11.1	7.5	552	18.0	--	--
AUG											
14-14	1610	80020	1028	4.2	--	--	--	--	--	--	--
SEP											
08...	0840	80020	1028	--	.02	3.4	7.4	616	20.9	--	--
SEP											
16-16	1015	80020	1028	91	--	--	--	--	--	--	--
22...	1010	80020	1028	--	.60	8.0	7.1	471	15.2	--	--
22...	1011	80020	1028	--	.60	8.0	7.1	471	15.2	--	--
28...	0945	80020	1028	--	.16	9.1	7.4	805	18.3	--	--
SEP											
30-30	0203	80020	1028	4.6	--	--	--	--	--	--	--

CONESTOGA RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT LAB MG/L AS CACO3 (39087)	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, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT 1998											
08-08	--	--	--	--	--	--	--	.072	.55	1.0	.916
OCT											
09-10	--	--	--	--	--	--	--	.103	.55	.89	1.06
15...	--	--	--	--	--	--	--	.054	.47	.67	6.90
NOV											
26-26	--	--	--	--	--	--	--	.371	1.4	2.2	4.06
JAN 1999											
13...	4.0	24	204	49	.16	8.7	61	.041	.26	.32	9.12
JAN											
24-24	--	--	--	--	--	--	--	.298	1.4	2.3	6.51
FEB											
02-02	--	--	--	--	--	--	--	.202	.81	1.5	2.67
09...	--	--	--	--	--	--	--	.029	3.2	3.7	10.2
FEB											
18-18	--	--	--	--	--	--	--	.197	.87	1.7	2.96
MAR											
03-04	--	--	--	--	--	--	--	.237	.86	5.1	2.86
09...	--	--	--	--	--	--	--	<.020	.17	.22	10.6
MAR											
21-22	--	--	--	--	--	--	--	.065	.78	2.6	2.57
APR											
08...	--	--	--	--	--	--	--	<.020	.72	.54	10.2
APR											
09-09	--	--	--	--	--	--	--	.309	.93	3.4	2.51
APR											
09-09	--	--	--	--	--	--	--	.174	.82	2.3	2.51
APR											
11-11	--	--	--	--	--	--	--	.120	.56	1.5	3.09
20...	--	--	216	--	--	--	--	.029	.34	.38	9.69
APR											
22-22	--	--	--	--	--	--	--	<.020	.54	--	3.66
29...	--	--	--	--	--	--	--	.042	.35	.47	8.42
MAY											
11...	--	--	--	--	--	--	--	.060	.29	.31	7.86
MAY											
12-13	--	--	--	--	--	--	--	.482	1.1	2.4	3.43
MAY											
13-13	--	--	--	--	--	--	--	<.020	1.0	1.4	2.95
19...	--	--	--	--	--	--	--	.112	.32	.58	8.22
MAY											
24-24	--	--	--	--	--	--	--	.084	.77	2.7	3.76
28...	--	--	--	--	--	--	--	.100	.38	.47	7.78
JUN											
02-02	--	--	--	--	--	--	--	.274	1.7	5.3	3.52
10...	--	--	--	--	--	--	--	.135	.70	1.8	4.75
JUN											
17-18	--	--	--	--	--	--	--	.345	1.8	3.2	1.82
18...	--	--	--	--	--	--	--	.068	.49	.81	4.34
AUG											
14-14	--	--	--	--	--	--	--	.416	2.1	6.2	1.99
SEP											
08...	--	--	--	--	--	--	--	.329	1.0	1.6	1.50
SEP											
16-16	--	--	--	--	--	--	--	.032	.41	2.2	2.55
22...	--	--	--	--	--	--	--	.023	.44	.67	5.35
22...	--	--	--	--	--	--	--	.021	.42	.71	5.84
28...	--	--	--	--	--	--	--	.448	.80	1.1	7.75
SEP											
30-30	--	--	--	--	--	--	--	.065	1.2	2.2	1.16

CONESTOGA RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	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)	TUR- BID- ITY (NTU) (00076)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	SEDI- MENT, SUS- PENDEd (MG/L) (80154)
OCT 1998 08-08	.023	.424	.386	.514	--	--	--	--	--	43
OCT 09-10	.019	.304	.284	.442	--	--	--	--	--	51
15...	.045	.258	.258	.338	2.5	--	--	--	--	3
NOV 26-26	.076	.319	.261	.513	--	--	--	--	--	66
JAN 1999 13...	.010	.088	--	.095	1.0	8800	.012	<10	<3.0	2
JAN 24-24	.055	.356	.353	1.15	--	--	--	--	--	263
FEB 02-02	.036	.166	.139	.390	--	--	--	--	--	144
09...	<.010	.081	--	.182	3.0	16000	--	--	--	9
FEB 18-18	.025	.209	.185	.491	--	--	--	--	--	85
MAR 03-04	.049	.479	.468	3.25	--	--	--	--	--	764
09...	.011	.009	--	.014	1.5	230	--	--	--	2
MAR 21-22	.022	.259	.228	.873	--	--	--	--	--	386
APR 08...	.085	.047	--	.100	4.0	--	--	--	--	16
APR 09-09	.058	.119	.089	.743	--	--	--	--	--	357
APR 09-09	.058	.139	.111	.575	--	--	--	--	--	257
APR 11-11	.019	.052	.041	.286	--	--	--	--	--	141
20...	.018	.026	--	.038	2.5	4200	--	--	--	5
APR 22-22	.048	.039	.012	.116	--	--	--	--	--	28
29...	.012	.034	--	.075	3.0	--	--	--	--	15
MAY 11...	.024	.033	--	.046	1.0	--	--	--	--	5
MAY 12-13	.085	.060	.038	.341	--	--	--	--	--	116
MAY 13-13	.109	.080	<.010	.299	--	--	--	--	--	39
19...	.054	.037	--	.060	1.5	16000	--	--	--	2
MAY 24-24	.094	.109	.081	.550	42	--	--	--	--	160
28...	.075	.091	--	.125	3.0	--	--	--	--	32
JUN 02-02	.375	.173	.126	1.02	57	--	--	--	--	247
10...	.203	.376	--	.705	7.0	K150000	--	--	--	19
JUN 17-18	.140	.369	.281	.718	28	--	--	--	--	58
18...	.061	.126	--	.191	6.5	--	--	--	--	16
AUG 14-14	.149	1.01	.895	2.17	56	--	--	--	--	181
SEP 08...	.091	1.45	--	1.64	4.5	--	--	--	--	7
SEP 16-16	.017	.321	.315	1.33	240	--	--	--	--	930
22...	.012	.101	--	.150	12	7200	--	--	--	14
22...	.012	.113	--	.150	12	7200	--	--	--	14
28...	.057	.194	--	.470	2.6	--	--	--	--	3
SEP 30-30	.026	.350	.219	1.41	120	--	--	--	--	273