

CONESTOGA RIVER BASIN

015765265 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA

LOCATION.--Lat 39°59'54", long 76°14'50", Lancaster County, Hydrologic Unit 02050306, on left bank 1000 ft downstream of Lampeter Road, and 0.7 mi northwest of Lampeter.

DRAINAGE AREA.--0.32 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1995 to current year.

GAGE.--Water-stage recorder and wooden weir. Datum of gage is 360.24 ft above sea level.

REMARKS.--Records poor.

PEAK DISCHARGES FOR CURRENT PERIOD.--Peak discharges greater than a base discharge of 30 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Jan. 18	1500	42	5.37	Sept. 16	1345	*113	*6.16

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	.11	.25	.28	e.08	.00	.00	.00	.00
2	.00	.00	.00	.00	.97	.18	.16	e.07	.11	.05	.00	.00
3	.00	.00	.00	1.8	.29	.45	.14	e.07	.03	.00	.00	.00
4	.09	.00	.00	.08	.21	1.0	.15	e.01	.00	.00	.00	.00
5	.00	.00	.00	.01	.17	.36	.13	e.00	.00	.00	.00	.08
6	.00	.00	.00	.00	.16	.45	.12	e.00	.00	.00	.00	.08
7	.00	.00	.00	.00	.17	.28	.11	e.00	.00	.00	.00	1.9
8	1.8	.00	.05	.00	.28	.22	.10	e.28	.00	.00	.00	.00
9	1.6	.00	.00	1.3	.18	.20	.87	e.08	.00	.00	.00	.11
10	.38	.00	.00	.07	.15	.19	.44	e.06	.00	.03	.00	.01
11	.03	.06	.00	.03	.14	.17	.59	.03	.00	.00	.00	.00
12	.00	.00	.00	.03	.91	.15	.43	.16	.00	.00	.00	.00
13	.00	.00	.00	.03	.41	.14	.24	.22	.00	.00	.00	.00
14	.00	.00	.00	.01	.22	.16	.20	.07	.04	.00	.70	.00
15	.00	.00	.00	.96	.19	.38	.19	.06	.00	.00	.00	.22
16	.00	.00	.00	.39	.17	.53	.20	.04	.00	.00	.00	25
17	.00	.00	.00	.78	.22	.44	.16	.03	.41	.00	.00	.63
18	.00	.00	.00	7.7	1.1	.30	.14	.03	.07	.00	.00	.14
19	.00	.00	.00	.38	.32	.22	.12	.12	.00	.00	.00	.05
20	.00	.00	.00	.22	.24	.19	.13	.08	.00	.00	.00	.14
21	.00	.00	.00	.30	.20	1.9	.11	.06	.01	.00	.00	.28
22	.00	.00	.00	.26	.16	1.9	.31	.04	.00	.00	.00	.46
23	.00	.00	.00	.25	.14	.41	.30	.09	.00	.00	.00	.14
24	.00	.00	.00	2.6	.14	.31	.15	.21	.00	.00	.00	.10
25	.00	.00	.00	.41	.13	.25	.13	e.04	.00	.00	.00	.07
26	.00	.20	.00	.25	.12	.22	.12	e.03	.00	.00	.15	.04
27	.00	.00	.00	.20	.11	.20	e.10	e.02	.00	.00	.01	.04
28	.00	.00	.00	.18	.48	.23	e.09	.02	.00	.00	.00	.04
29	.00	.00	.00	.15	---	.18	e.08	.00	.00	.00	.00	.03
30	.00	.00	.00	.13	---	.16	e.08	.00	.00	.00	.00	1.6
31	.00	---	.00	.11	---	.15	---	.00	---	.00	.00	---
TOTAL	3.90	0.26	0.05	18.63	8.09	12.17	6.37	2.00	0.67	0.08	0.86	31.16
MEAN	.13	.009	.002	.60	.29	.39	.21	.065	.022	.003	.028	1.04
MAX	1.8	.20	.05	7.7	1.1	1.9	.87	.28	.41	.05	.70	.25
MIN	.00	.00	.00	.00	.11	.14	.08	.00	.00	.00	.00	.00
CFSM	.39	.03	.01	1.88	.90	1.23	.66	.20	.07	.01	.09	3.25
IN.	.45	.03	.01	2.17	.94	1.41	.74	.23	.08	.01	.10	3.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999		
MEAN	.40	.45	.44	.87	.44	.61	.41	.27	.27	.22	.11	.26
MAX	1.08	.80	1.51	1.95	.53	.88	.64	.48	.61	.51	.47	1.04
(WY)	1997	1996	1997	1996	1998	1998	1996	1998	1996	1996	1996	1999
MIN	.034	.009	.002	.43	.29	.39	.21	.065	.022	.003	.016	.004
(WY)	1998	1999	1999	1997	1999	1999	1999	1999	1999	1999	1998	1998

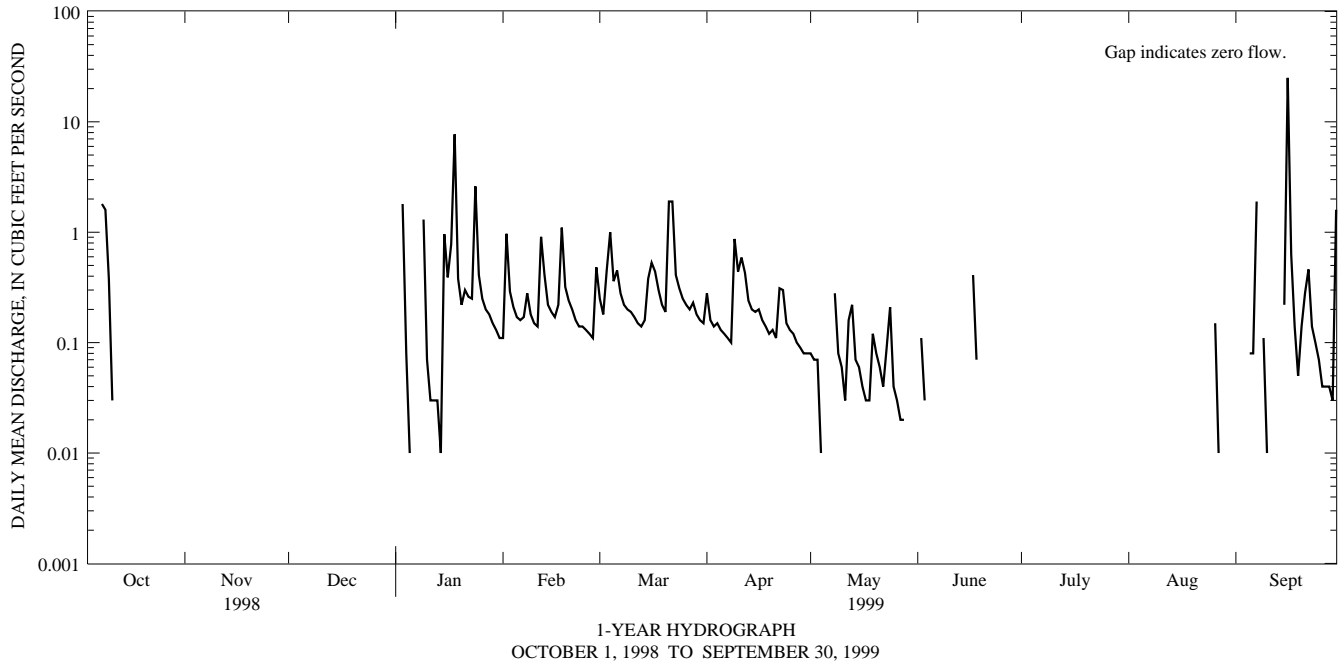
e Estimated.

CONESTOGA RIVER BASIN

015765265 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1995 - 1999	
ANNUAL TOTAL	108.80		84.24			
ANNUAL MEAN	.30		.23		.40	
HIGHEST ANNUAL MEAN					.60	1996
LOWEST ANNUAL MEAN					.23	1999
HIGHEST DAILY MEAN	7.9	Mar 21	25	Sep 16	28	Jan 19 1996
LOWEST DAILY MEAN	.00	Aug 5 <sup>a</sup>	.00	Oct 1 <sup>a</sup>	.00	May 20 1995 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 19 <sup>b</sup>	.00	Oct 12 <sup>b</sup>	.00	Aug 15 1995 <sup>b</sup>
INSTANTANEOUS PEAK FLOW			c113	Sep 16	c122	Jun 19 1996
INSTANTANEOUS PEAK STAGE			6.16	Sep 16	6.35	Jun 19 1996
INSTANTANEOUS LOW FLOW			.00	Oct 1 <sup>a</sup>	.00	Sep 28 1995 <sup>a</sup>
ANNUAL RUNOFF (CFSM)	.93		.72		1.26	
ANNUAL RUNOFF (INCHES)	12.65		9.79		17.16	
10 PERCENT EXCEEDS	.73		.38		.68	
50 PERCENT EXCEEDS	.11		.00		.12	
90 PERCENT EXCEEDS	.00		.00		.00	

- a Many days.
- b First occurrence.
- c From rating curve extended above 74 ft<sup>3</sup>/s.



## CONESTOGA RIVER BASIN

015765265 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1995 to current year.

INSTRUMENTATION.--Automatic pumping sampler for stormflow since May 1995, nutrient and sediment samples since January 1995.

REMARKS.--Fixed-time, base flow, and stormflow samples collected at streamflow control. Constituent values for stormflow water quality are for discharge-weighted composited 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 and some values for dissolved ortho-phosphorus exceed values for dissolved phosphorus. 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)	AGENCY COL- LECTING SAMPLE (CODE NUMBER)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 1998										
08-08	0815	80020	1028	4.8	--	--	--	--	--	.055
OCT										
09-10	1957	80020	1028	5.8	--	--	--	--	--	.082
NOV										
26-26	0527	80020	1028	.51	--	--	--	--	--	.250
JAN 1999										
13...	1035	80020	1028	--	.03	--	7.8	585	2.0	.050
FEB										
02-02	0815	80020	1028	2.2	--	--	--	--	--	.133
09...	1005	80020	1028	--	.18	14.2	7.9	656	4.5	.022
MAR										
03-04	2245	80020	1028	2.7	--	--	--	--	--	.099
09...	1040	80020	1028	--	.20	17.4	8.0	689	3.8	<.020
MAR										
21-22	2017	80020	1028	5.8	--	--	--	--	--	.062
APR										
08...	1030	80020	1028	--	.11	12.5	8.0	636	12.1	<.020
APR										
09-09	1315	80020	1028	2.0	--	--	--	--	--	.331
APR										
09-09	1945	80020	1028	2.4	--	--	--	--	--	.186
APR										
11-11	1802	80020	1028	2.0	--	--	--	--	--	.128
20...	1035	80020	1028	--	.14	12.0	7.9	632	8.4	.028
APR										
22-22	0515	80020	1028	.98	--	--	--	--	--	.080
29...	0845	80020	1028	--	.00	11.2	7.9	618	9.7	.030
MAY										
11...	0700	80020	1028	--	.03	9.3	7.4	700	11.4	.047
MAY										
12-13	2247	80020	1028	1.6	--	--	--	--	--	.482
MAY										
13-13	0212	80020	1028	.85	--	--	--	--	--	.200
19...	0930	80020	1028	--	.33	7.7	7.4	454	16.5	.042
MAY										
24-24	0952	80020	1028	.67	--	--	--	--	--	.186
28...	0920	80020	1028	--	.02	6.6	7.5	696	12.7	.077
JUN										
02-02	1650	80020	1028	.45	--	--	--	--	--	.329
JUN										
17-18	1915	80020	1028	1.8	--	--	--	--	--	.202
18...	1100	80020	1028	--	.03	10.3	7.6	352	16.2	.021
SEP										
16-16	0915	80020	1028	61	--	--	--	--	--	.030
22...	1115	80020	1028	--	.31	8.7	7.3	468	14.6	<.020
28...	1010	80020	1028	--	.03	6.1	7.3	757	17.4	<.020
SEP										
30-30	0157	80020	1028	4.6	--	--	--	--	--	.041

## CONESTOGA RIVER BASIN

## 015765265 NORTH FORK UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

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

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, 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)	TUR- BID- ITY (NTU) (00076)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31673)	SEDI- MENT, SUS- PENDEd (MG/L) (80154)
OCT 1998										
08-08	.37	1.2	.584	.011	.204	.181	.307	--	--	103
OCT										
09-10	.49	.98	.762	.011	.196	.172	.328	--	--	117
NOV										
26-26	.69	1.2	2.44	.020	.113	.099	.280	--	--	95
JAN 1999										
13...	.39	.48	9.19	.013	.063	--	.072	3.0	440	1
FEB										
02-02	.57	1.1	2.76	.021	.089	.074	.236	--	--	132
09...	.19	.22	12.2	<.010	.018	--	.021	1.0	43	1
MAR										
03-04	.40	1.6	2.25	.017	.040	.035	.397	--	--	324
09...	.16	.17	12.4	.012	.007	--	.010	1.5	51	2
MAR										
21-22	1.2	2.7	1.72	.048	.202	.068	.774	--	--	378
APR										
08...	.31	.27	12.6	.013	.004	--	.014	2.5	--	12
APR										
09-09	.75	2.1	2.16	.026	.049	.042	.429	--	--	308
APR										
09-09	.65	1.8	2.09	.083	.068	.056	.201	--	--	216
APR										
11-11	.53	1.1	2.59	.013	.031	.027	.145	--	--	84
20...	.22	.22	9.77	.014	.005	--	.008	1.0	200	4
APR										
22-22	.43	--	2.91	.021	.010	.012	.044	--	--	28
29...	.17	.19	10.3	<.010	.004	--	.008	1.5	--	1
MAY										
11...	.23	.24	10.1	.010	.011	--	.015	1.0	--	3
MAY										
12-13	1.0	2.2	3.10	.050	.020	.015	.291	--	--	200
MAY										
13-13	.58	.93	2.86	.041	.018	.011	.082	--	--	34
19...	.48	.77	6.69	.045	.020	--	.080	11	40000	26
MAY										
24-24	.61	1.3	3.13	.038	.029	.024	.177	40	--	101
28...	.24	.26	12.3	.042	.024	--	.029	1.5	--	18
JUN										
02-02	1.6	2.9	3.95	.101	.091	.068	.460	82	--	191
JUN										
17-18	.67	1.1	1.37	.028	.086	.068	.173	26	--	58
18...	.32	.41	4.79	.013	.050	--	.063	5.0	--	2
SEP										
16-16	.43	2.8	2.30	.014	.232	.233	1.37	190	--	1190
22...	.44	.58	6.58	<.010	.066	--	.088	11	2000	9
28...	.22	.16	8.42	.012	.043	--	.042	.70	--	1
SEP										
30-30	.66	1.7	.264	.027	.167	<.010	.598	120	--	198