

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 mi².

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 50 ft³/s (revised) and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 21	1740	55	5.52	Sept. 14	2340	*77	*5.75

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	.16	.06	.08	.09	e.03	.34	.23	.13	.12	.10	e.01	1.0
2	.11	.42	.07	.10	e.03	.28	.22	.18	.11	.08	.00	.03
3	.09	.10	.07	.10	e.03	.23	.21	.12	.10	.61	.01	.14
4	.74	.06	.06	.22	e.03	.21	.29	.11	.10	.17	.01	.01
5	.67	.06	.06	.12	e.04	.19	.19	.13	.10	.09	.00	.00
6	.19	.05	.86	.10	e.04	.17	.18	.11	.47	.08	.03	.00
7	.13	.04	.17	.10	e.04	.16	.16	.10	.12	.09	.01	.00
8	.11	.05	.13	.09	e.04	.16	.56	.09	.10	.06	.00	.00
9	.10	.05	.11	.15	e.05	.15	.83	.08	.08	.05	.08	.00
10	2.2	.05	.44	.59	e.06	.13	.26	1.4	.08	.09	.00	.00
11	.31	.04	.18	.20	.29	.57	.22	.16	.07	.05	.00	.00
12	.21	.04	.15	.16	.29	.44	.20	.12	.08	.04	.00	.00
13	.18	.04	.26	.15	.22	.20	.18	.58	.09	.04	.00	1.8
14	.17	.04	4.1	.11	.89	.18	.18	.16	.09	.07	.03	2.5
15	.13	.03	.68	e.09	.60	.16	.18	.11	.12	.93	.00	2.7
16	.12	.03	.35	e.10	.87	.28	.54	.10	.11	.09	.06	.19
17	.12	.02	.26	e.08	.54	.53	1.2	.10	.20	.06	.00	.07
18	.14	.02	.22	e.07	.39	.20	.75	.09	.47	.05	.00	.05
19	.10	.02	.18	e.07	2.8	.18	.36	.83	.16	.12	.00	.36
20	.24	.05	.50	e.08	1.1	.18	.29	.79	.08	.08	.00	.12
21	.12	.05	.30	e.06	.72	14	.47	.28	.58	.04	.00	.06
22	.13	.02	.22	e.06	.81	7.6	.28	1.3	.39	.03	.00	.06
23	.11	.02	.20	e.06	.69	.87	.23	.37	.11	.02	.07	.06
24	.09	.02	.18	e.06	.56	.57	.22	1.0	.09	.02	.05	.05
25	.08	.05	.15	e.07	.44	.43	.19	.27	.64	.02	.00	1.4
26	.08	1.2	.14	e.05	.34	.35	.18	.21	.40	.44	.00	2.1
27	.07	1.1	.13	e.05	1.0	.64	.18	.23	.12	e.05	.36	.30
28	.06	.17	.12	e.04	2.2	1.4	.16	.21	.21	e.04	.05	.17
29	.07	.12	.11	e.03	.44	.39	.15	.17	.39	e.03	.00	.12
30	.06	.10	.10	e.03	---	.30	.14	.14	.17	e.02	.03	.11
31	.08	---	.10	e.03	---	.26	---	.13	---	e.02	.02	---
TOTAL	7.17	4.12	10.68	3.31	15.58	31.75	9.43	9.80	5.95	3.68	0.82	13.40
MEAN	.23	.14	.34	.11	.54	1.02	.31	.32	.20	.12	.026	.45
MAX	2.2	1.2	4.1	.59	2.8	14	1.2	1.4	.64	.93	.36	2.7
MIN	.06	.02	.06	.03	.03	.13	.14	.08	.07	.02	.00	.00
CFSM	.72	.43	1.08	.33	1.68	3.20	.98	.99	.62	.37	.08	1.40
IN.	.83	.48	1.24	.38	1.81	3.69	1.10	1.14	.69	.43	.10	1.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	.37	.39	.42	.72	.46	.69	.39	.28	.26	.20	.098	.30
MAX	1.08	.80	1.51	1.95	.54	1.02	.64	.48	.61	.51	.47	1.04
(WY)	1997	1996	1997	2000	2000	1996	1998	1996	1996	1996	1996	1999
MIN	.034	.009	.002	.11	.29	.39	.21	.065	.022	.003	.016	.004
(WY)	1998	1999	1999	2000	1999	1999	1999	1999	1999	1999	1998	1998

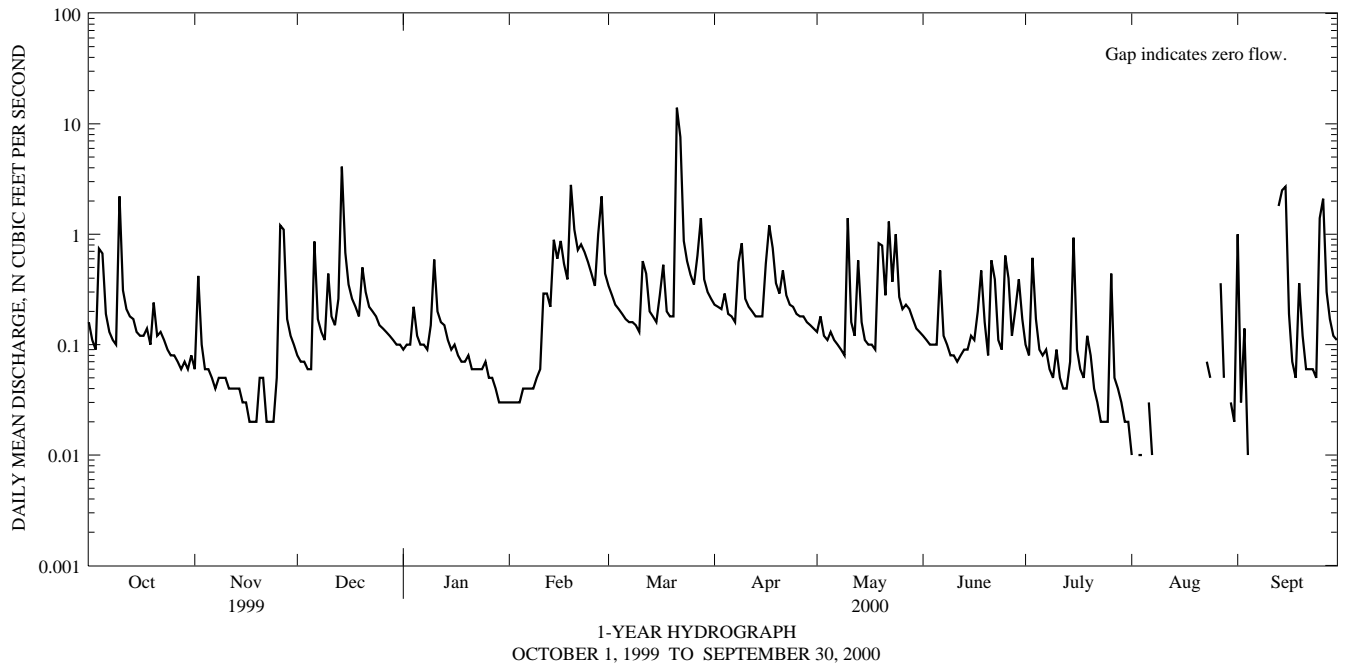
e Estimated.

CONESTOGA RIVER BASIN

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	102.00		115.69			
ANNUAL MEAN	.28		.32		.39	
HIGHEST ANNUAL MEAN					.60	1996
LOWEST ANNUAL MEAN					.23	1999
HIGHEST DAILY MEAN	25	Sep 16	14	Mar 21	28	Jan 19 1996
LOWEST DAILY MEAN	.00	Jan 1a	.00	Aug 2a	.00	May 20 1995a
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 4b	.00	Sep 5	.00	Aug 15 1995b
INSTANTANEOUS PEAK FLOW			c77	Sep 14	c122	Jun 19 1996
INSTANTANEOUS PEAK STAGE			5.75	Sep 14	6.35	Jun 19 1996
INSTANTANEOUS LOW FLOW			.00	Aug 2a	.00	Sep 28 1995a
ANNUAL RUNOFF (CFSM)	.87		.99		1.21	
ANNUAL RUNOFF (INCHES)	11.86		13.45		16.41	
10 PERCENT EXCEEDS	.43		.65		.67	
50 PERCENT EXCEEDS	.09		.12		.12	
90 PERCENT EXCEEDS	.00		.02		.00	

- a Many days.
- b First occurrence.
- c From rating curve extended above 74 ft³/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 1999 TO SEPTEMBER 2000

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)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 1999										
04-04	0742	80020	1028	1.3	--	--	--	--	--	.55
06...	1135	80020	1028	--	.20	9.7	7.8	672	13.3	.38
OCT										
10-10	0515	80020	1028	4.5	--	--	--	--	--	.46
14...	1015	80020	1028	--	.16	8.8	7.7	700	12.7	.27
25...	1100	80020	1028	--	.07	9.1	7.6	708	10.0	.20
NOV										
02...	1105	80020	1028	--	.04	6.4	7.4	732	14.1	.29
NOV										
02-02	1715	80020	1028	2.2	--	--	--	--	--	.53
12...	1200	80020	1028	--	.04	10.7	7.7	732	9.0	.18
22...	1145	80020	1028	--	.02	7.9	7.4	714	12.2	.21
NOV										
26-27	1740	80020	1028	3.7	--	--	--	--	--	.45
DEC										
06-06	0535	80020	1028	2.5	--	--	--	--	--	.48
07...	1015	80020	1028	--	.17	11.0	7.9	634	8.8	.28
DEC										
10-10	1232	80020	1028	1.7	--	--	--	--	--	.44
DEC										
14-14	0757	80020	1028	7.7	--	--	--	--	--	.54
JAN 2000										
05...	1025	80020	1028	--	.11	13.2	7.9	646	6.0	.29
FEB										
09...	1120	80020	1028	--	.05	13.6	7.8	794	1.3	.44
FEB										
27-28	2257	80020	1028	5.5	--	--	--	--	--	1.1
MAR										
11-11	1202	80020	1028	2.2	--	--	--	--	--	.93
MAR										
16-17	2245	80020	1028	1.5	--	--	--	--	--	.51
MAR										
21-21	1215	80020	1028	26	--	--	--	--	--	.69
24...	1010	80020	1028	--	.60	11.6	7.8	745	10.6	.33
APR										
05...	1110	80020	1028	--	.19	14.2	8.1	693	9.2	.37
APR										
08-09	1945	80020	1028	1.6	--	--	--	--	--	.50
APR										
16-16	1727	80020	1028	1.9	--	--	--	--	--	.87
APR										
17-17	0842	80020	1028	1.6	--	--	--	--	--	.61
19...	0945	80020	1028	--	.38	11.0	7.8	689	9.8	.26
25...	0955	80020	1028	--	.20	11.2	7.9	--	10.9	.16
MAY										
08...	0830	80020	1028	--	.10	8.0	7.7	660	15.6	.19
MAY										
10-10	1637	80020	1028	6.2	--	--	--	--	--	3.1
17...	0845	80020	1028	--	.10	8.7	7.7	559	13.7	.20
MAY										
19-19	0820	80020	1028	2.6	--	--	--	--	--	1.2
26...	1005	80020	1028	--	.22	9.0	7.8	662	13.9	.25
JUN										
06-06	0317	80020	1028	1.4	--	--	--	--	--	.89
07...	1030	80020	1028	--	.12	9.3	7.7	601	14.2	.29
JUN										
15-16	2302	80020	1028	.51	--	--	--	--	--	.62
16...	0915	80020	1028	--	.10	8.3	7.6	545	17.8	.41
JUN										
17-17	1707	80020	1028	.90	--	--	--	--	--	.60
23...	0945	80020	1028	--	.12	9.7	7.7	620	17.7	.28
JUL										
05...	1140	80020	1028	--	.10	9.6	7.8	691	19.2	.23
14...	0950	80020	1028	--	.10	10.7	7.8	685	17.7	.22
JUL										
15-15	0032	80020	1028	2.6	--	--	--	--	--	.60
25...	0950	80020	1028	--	.02	9.1	7.8	368	17.0	.28
JUL										
26-26	0817	80020	1028	.93	--	--	--	--	--	.43

CONESTOGA RIVER BASIN

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

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

DATE	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)	TUR- BID- ITY (NTU) (00076)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31673)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 1999										
04-04	1.3	.099	2.45	.018	.136	.104	.340	62	--	135
06...	.30	<.020	10.5	.039	.042	--	.051	3.6	--	84
OCT										
10-10	1.3	.087	1.90	.023	.065	--	.459	89	--	138
14...	.34	<.020	10.7	<.010	.031	--	.035	1.6	690	6
25...	.18	<.020	10.8	.015	.019	--	.018	1.1	--	2
NOV										
02...	.40	<.020	10.6	.037	.019	--	.023	.9	K1700	3
NOV										
02-02	3.3	.083	2.36	.024	.120	.071	.841	140	--	488
12...	.23	<.020	10.7	.010	.016	--	.017	.7	--	9
22...	1.2	<.020	9.65	.045	.013	--	.017	.7	--	10
NOV										
26-27	3.0	.096	1.53	.023	.107	.066	1.23	220	--	788
DEC										
06-06	2.3	.167	1.93	.019	.098	.068	.869	180	--	534
07...	.32	<.020	9.57	<.010	.037	--	.040	4.7	730	8
DEC										
10-10	1.3	.168	2.48	.029	.058	.052	.394	140	--	174
DEC										
14-14	3.1	.072	1.43	.014	.153	.189	1.54	--	--	980
JAN 2000										
05...	.31	<.020	10.1	<.010	.017	--	.021	.9	200	3
FEB										
09...	.44	.144	11.5	.010	.011	--	.011	.6	K17	1
FEB										
27-28	4.9	.213	2.38	.030	.159	.126	2.24	--	--	1980
MAR										
11-11	2.2	.541	2.89	.030	.040	.029	.412	--	--	298
MAR										
16-17	2.5	.127	4.82	.049	.053	.035	.419	--	--	112
MAR										
21-21	2.6	.075	1.20	.012	.264	.261	1.53	--	--	889
24...	.27	<.020	10.5	<.010	.040	--	.049	12	220	12
APR										
05...	.30	<.020	10.8	<.010	.014	--	.018	3.3	--	2
APR										
08-09	1.0	.179	2.72	.024	.019	.017	.176	--	--	103
APR										
16-16	3.6	.378	2.91	.037	.053	.042	1.21	--	--	871
APR										
17-17	1.2	.170	3.47	.024	.050	.034	.230	--	--	100
19...	.28	<.020	9.51	<.010	.021	--	.031	6.5	300	3
25...	.22	<.020	11.0	.010	.017	--	.022	3.2	--	4
MAY										
08...	.23	.026	10.4	.017	.009	--	.012	2.0	--	2
MAY										
10-10	12	.974	3.72	.187	.362	.283	4.17	--	--	2650
17...	.26	<.020	9.86	.011	.019	--	.021	2.6	980	7
MAY										
19-19	3.9	.024	1.76	.034	.190	.107	1.82	--	--	370
26...	.23	.020	10.4	.016	.028	--	.033	4.0	--	11
JUN										
06-06	1.6	.234	2.96	.034	.044	.040	.265	--	--	116
07...	.29	<.020	8.73	.014	.024	--	.029	18	--	9
JUN										
15-16	1.3	.111	5.69	.053	.063	.043	.180	--	--	71
16...	.54	<.020	8.30	.025	.030	--	.042	5.7	--	2
JUN										
17-17	2.1	.131	2.30	.055	.065	.077	.636	--	--	371
23...	.28	<.020	9.75	.013	.050	--	.047	6.3	2600	2
JUL										
05...	.27	.022	9.78	.010	.032	--	.040	5.5	--	12
14...	.27	<.020	10.7	<.010	E.036	--	.030	9.0	16000	13
JUL										
15-15	1.5	.150	1.37	.052	.104	.073	.403	--	--	201
25...	.25	<.020	9.52	<.010	.021	--	.029	3.3	--	2
JUL										
26-26	.80	.049	1.45	.024	.067	.044	.180	--	--	85

CONESTOGA RIVER BASIN

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

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

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)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	
AUG 2000											
02...	1005	80020	1028	--	.00	9.1	7.8	697	20.8	.25	
AUG											
16-16	0532	80020	1028	.31	--	--	--	--	--	.89	
AUG											
23-23	1632	80020	1028	.30	--	--	--	--	--	.95	
AUG											
27-28	2145	80020	1028	1.5	--	--	--	--	--	.57	
SEP											
03-03	1257	80020	1028	.58	--	--	--	--	--	.56	
SEP											
13-13	0337	80020	1028	6.5	--	--	--	--	--	1.0	
14...	1105	80020	1028	--	.03	6.2	7.8	323	18.6	.54	
SEP											
14-15	2237	80020	1028	14	--	--	--	--	--	.68	
28...	1130	80020	1028	--	.18	11.1	8.0	638	14.7	.29	
DATE		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)	TUR- BID- ITY (NTU) (00076)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
AUG 2000											
02...	.38	.022	9.96	.015	.032	--	.054	6.9	--	32	
AUG											
16-16	1.7	.293	3.08	.049	.129	.096	.363	--	--	126	
AUG											
23-23	1.8	.306	2.83	.053	.134	.096	.334	--	--	104	
AUG											
27-28	.69	.030	2.04	.019	.076	.059	.124	--	--	14	
SEP											
03-03	.68	.027	3.20	.034	.067	.052	.101	--	--	16	
SEP											
13-13	1.9	.296	1.72	.069	.553	.531	.847	--	--	109	
14...	.81	.076	2.19	.033	.158	--	.340	150	--	55	
SEP											
14-15	2.2	.181	3.20	.026	.201	.167	.709	--	--	380	
28...	.28	<.020	9.17	<.010	.042	--	.055	4.9	K2000	8	