

**CONESTOGA RIVER BASIN**

**01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA**

**LOCATION.**--Lat 39°59'57", long 76°15'52", Lancaster County, Hydrologic Unit 02050306, on left bank 70 ft upstream from bridge on Morningside Drive near the intersection with Long Rifle Road and Gypsy Hill Road, and 1.0 mi northwest of Lampeter.

**DRAINAGE AREA.**--1.42 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**--October 1993 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 290.25 ft above sea level.

**REMARKS.**--Records fair except those for estimated daily discharges and those discharges below 1.0 ft<sup>3</sup>/s, which are poor. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 140 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)
Sept. 16	1515	*342	*6.00	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	.19	.25	.27	.20	.65	1.2	1.3	.73	.40	.24	.17	.13
2	.17	.26	.23	.20	2.3	.89	1.1	.64	.47	.23	.15	.12
3	.17	.27	.27	4.4	1.2	.92	1.0	.63	.55	.29	.15	.12
4	.32	.27	.23	.54	1.0	3.1	.98	.67	.43	.24	.13	.12
5	.25	.25	.25	.33	.85	1.5	.91	.60	.40	.22	.13	.12
6	.21	.24	.24	.29	.80	1.6	.86	.65	.36	.23	.12	.17
7	.22	.24	.24	.28	.77	1.4	.83	.63	.37	.23	.12	4.4
8	4.2	.24	.28	.27	1.1	1.1	.77	1.0	.35	.23	.16	.27
9	3.2	.23	.30	4.6	.81	1.1	2.2	.63	.33	.23	.17	.18
10	2.8	.24	.26	.60	.75	1.1	1.9	.55	.32	.23	.13	.36
11	.60	.29	.24	.39	.70	1.0	1.8	.56	.31	.23	.12	.18
12	.46	.26	.24	e.34	2.0	.90	1.7	.59	.31	.21	.09	1.16
13	.38	.23	.24	e.34	1.6	.86	1.3	1.3	.29	.23	.09	.15
14	.35	.27	.24	.34	1.1	.94	1.1	.64	.33	.22	1.5	.14
15	.31	.26	.22	3.6	.93	1.4	1.1	.58	.34	.20	.41	.32
16	.29	.26	.23	1.9	.82	1.7	1.1	.57	.29	.18	.20	56
17	.27	.27	.24	3.5	.90	1.6	1.0	.56	.58	.17	.17	3.7
18	.27	.27	.24	26	2.6	1.3	.95	.57	.82	.18	.12	1.5
19	.28	.27	.21	1.8	1.4	1.1	.89	.69	.36	.18	.08	1.0
20	.28	.27	.22	1.0	1.1	1.1	.88	.57	.34	.18	.07	.66
21	.28	.28	.22	1.1	1.0	2.9	.86	.52	.34	.16	.08	1.3
22	.24	.26	.23	1.2	.86	5.0	1.3	.52	.34	.21	.08	1.7
23	.22	.25	.20	1.0	.82	1.9	1.3	.60	.34	.19	.08	.75
24	.24	.26	.20	4.8	.80	1.6	1.1	.81	.33	.16	.09	.57
25	.24	.24	.20	1.6	.80	1.4	.87	.57	.29	.16	.09	.51
26	.24	.61	.20	1.1	.77	1.3	.90	.48	.29	.16	.29	.45
27	.26	.31	.20	.98	.70	1.2	.80	.45	.28	.15	.21	.43
28	.28	.26	.20	.84	1.4	1.2	.75	.42	.26	.14	.16	.41
29	.28	.24	.22	.86	---	1.1	.73	.40	.26	.15	.13	.40
30	.27	.27	.24	.77	---	1.1	.72	.39	.24	.16	.13	3.9
31	.27	---	.22	.69	---	1.0	---	.40	---	.16	.13	---
TOTAL	18.04	8.12	7.22	65.86	30.53	45.51	33.00	18.92	10.92	6.15	5.75	80.22
MEAN	.58	.27	.23	2.12	1.09	1.47	1.10	.61	.36	.20	.19	2.67
MAX	4.2	.61	.30	.26	2.6	5.0	2.2	1.3	.82	.29	1.5	.56
MIN	.17	.23	.20	.20	.65	.86	.72	.39	.24	.14	.07	.12
CFSM	.41	.19	.16	1.50	.77	1.03	.77	.43	.26	.14	.13	1.88
IN.	.47	.21	.19	1.73	.80	1.19	.86	.50	.29	.16	.15	2.10

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

	1994	1995	1996	1997	1998	1999
MEAN	1.28	1.69	1.97	2.34	1.99	3.50
MAX	3.90	3.51	4.89	5.02	2.54	9.49
(WY)	1997	1997	1997	1996	1994	1996
MIN	.19	.27	.23	1.20	1.09	1.47
(WY)	1998	1999	1999	1994	1999	1999

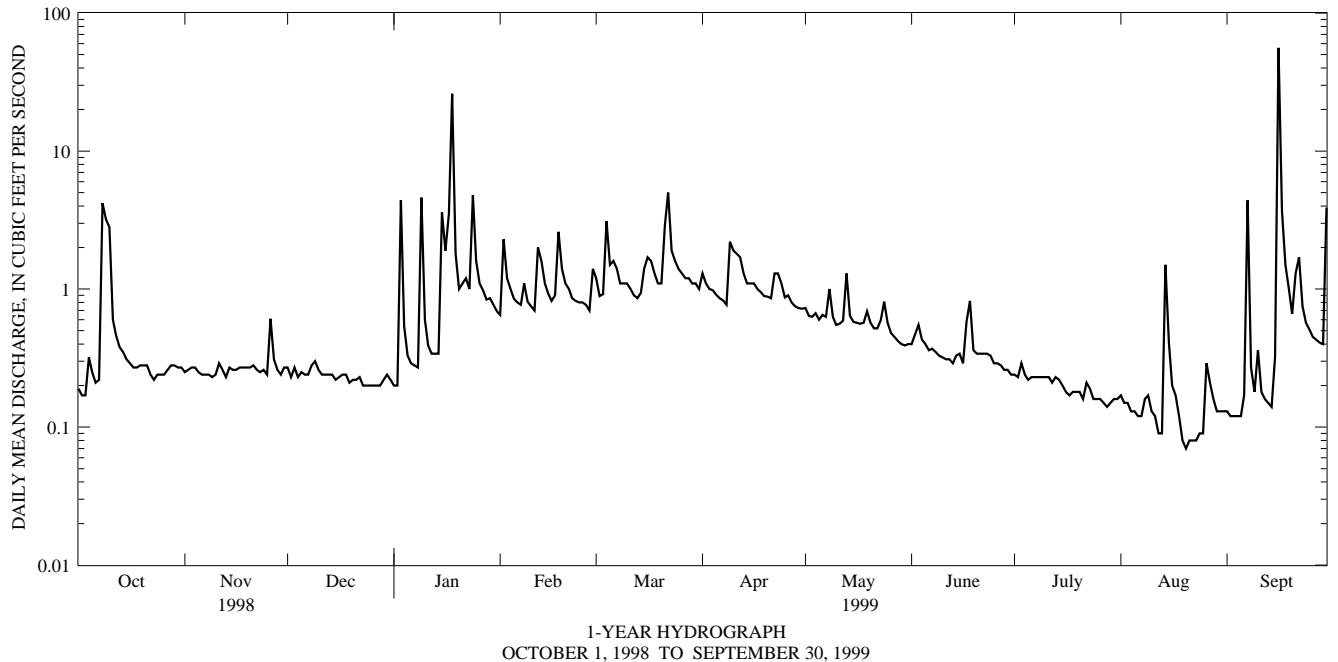
e Estimated.

CONESTOGA RIVER BASIN

01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	492.75		330.24			
ANNUAL MEAN	1.35		.90		1.74	
HIGHEST ANNUAL MEAN					2.58	
LOWEST ANNUAL MEAN					.90	
HIGHEST DAILY MEAN	17	Mar 21	56	Sep 16	56	Sep 16 1999
LOWEST DAILY MEAN	.17	Oct 2	.07	Aug 20	.07	Aug 24 1995
ANNUAL SEVEN-DAY MINIMUM	.20	Sep 27	.08	Aug 19	.08	Sep 10 1995
INSTANTANEOUS PEAK FLOW			a342	Sep 16	a430	Jun 12 1994
INSTANTANEOUS PEAK STAGE			6.00	Sep 16	6.31	Jun 12 1994
INSTANTANEOUS LOW FLOW			.07	Aug 13,14,20	.05	Aug 25 1995
ANNUAL RUNOFF (CFSM)	.95		.64		1.23	
ANNUAL RUNOFF (INCHES)	12.91		8.65		16.67	
10 PERCENT EXCEEDS	2.7		1.4		2.8	
50 PERCENT EXCEEDS	1.0		.34		1.1	
90 PERCENT EXCEEDS	.24		.16		.24	

a From rating curve extended above 140 ft<sup>3</sup>/s on basis of calculation of flow through culvert at gage heights 4.60, 5.30, 6.00 and 6.65 ft.



## CONESTOGA RIVER BASIN

## 01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1993 to current year.

INSTRUMENTATION.--Automatic pumping sampler since December 1993.

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 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 ANALYZING SAMPLE (CODE NUMBER)	AGENCY COLLECTING 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)	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)
OCT 1998												
07...	0755	80020	1028	--	.22	8.3	7.9	596	14.2	--	--	--
07...	0756	80020	1028	--	.22	--	--	--	--	--	--	--
OCT												
08-08	0952	80020	1028	9.8	--	--	--	--	--	--	--	--
OCT												
09-10	2137	80020	1028	12	--	--	--	--	--	--	--	--
15...	0920	80020	1028	--	.31	10.7	8.0	602	11.0	--	--	--
27...	0800	80020	1028	--	.27	11.9	7.9	593	12.6	--	--	--
NOV												
05...	0920	80020	1028	--	.24	15.1	8.2	560	5.6	--	--	--
DEC												
15...	0920	80020	1028	--	.22	16.3	8.0	658	1.6	--	--	--
JAN 1999												
03-03	0652	80020	1028	12	--	--	--	--	--	--	--	--
JAN												
03-03	0653	80020	1028	12	--	--	--	--	--	--	--	--
JAN												
09-09	1207	80020	1028	19	--	--	--	--	--	--	--	--
13...	0900	80020	1028	--	.34	--	7.7	662	4.8	98	17	6.4
JAN												
24-24	0753	80020	1028	8.4	--	--	--	--	--	--	--	--
FEB												
02-02	0807	80020	1028	4.0	--	--	--	--	--	--	--	--
09...	0925	80020	1028	--	.80	14.6	8.1	677	3.7	--	--	--
FEB												
18-18	0822	80020	1028	4.8	--	--	--	--	--	--	--	--
MAR												
03-04	2337	80020	1028	5.0	--	--	--	--	--	--	--	--
09...	0955	80020	1028	--	1.1	17.3	8.1	693	3.5	--	--	--
09...	0956	80020	1028	--	1.1	--	--	--	--	--	--	--
MAR												
21-22	2107	80020	1028	9.6	--	--	--	--	--	--	--	--
APR												
08...	1115	80020	1028	--	.80	16.4	8.7	594	15.5	--	--	--
APR												
09-09	1437	80020	1028	3.7	--	--	--	--	--	--	--	--
APR												
09-10	2022	80020	1028	4.7	--	--	--	--	--	--	--	--
APR												
11-11	1922	80020	1028	3.6	--	--	--	--	--	--	--	--
20...	0935	80020	1028	--	.88	11.9	8.0	608	8.8	--	--	--
APR												
22-22	0607	80020	1028	2.3	--	--	--	--	--	--	--	--
29...	1020	80020	1028	--	.75	15.0	8.5	570	14.1	--	--	--
MAY												
11...	0750	80020	1028	--	.57	11.4	7.8	618	12.1	--	--	--
11...	0751	80020	1028	--	.57	--	--	--	--	--	--	--
11...	0830	80020	1028	--	.57	--	--	--	--	--	--	--
MAY												
13-13	0037	80020	1028	2.5	--	--	--	--	--	--	--	--
19...	0820	80020	1028	--	.70	8.8	7.6	611	17.5	--	--	--
28...	0810	80020	1028	--	.43	10.2	7.6	602	13.1	--	--	--
JUN												
10...	0810	80020	1028	--	.34	7.3	7.6	651	19.2	--	--	--
JUN												
17-18	2207	80020	1028	2.8	--	--	--	--	--	--	--	--
18...	0945	80020	1028	--	.61	13.0	7.6	471	17.3	--	--	--
18...	0946	80020	1028	--	.61	--	--	--	--	--	--	--
28...	0955	80020	1028	--	.27	9.3	7.7	649	23.1	--	--	--
JUL												
07...	0810	80020	1028	--	.23	4.3	7.4	623	23.1	--	--	--
20...	0930	80020	1028	--	.20	5.9	6.9	657	21.6	--	--	--
28...	0800	80020	1028	--	.15	6.8	6.7	670	20.0	--	--	--
28...	0801	80020	1028	--	.15	6.8	6.7	670	20.0	--	--	--
AUG												
04...	0730	80020	1028	--	.17	6.7	7.0	682	17.1	--	--	--

## CONESTOGA RIVER BASIN

## 01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

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

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LITY 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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 1998												
07...	--	206	24	--	--	43	.035	.32	.38	6.88	.029	.071
07...	--	--	--	--	--	--	.035	.27	.40	6.89	.033	.076
OCT												
08-08	--	--	--	--	--	--	.298	1.8	2.5	2.55	.079	.726
OCT												
09-10	--	--	--	--	--	--	.163	.92	3.2	1.85	.049	.520
15...	--	--	--	--	--	--	.032	.40	.47	8.36	.059	.101
27...	--	--	--	--	--	--	.028	.34	.35	7.73	.027	.057
NOV												
05...	--	212	--	--	--	--	.024	.27	.35	8.93	.023	.069
DEC												
15...	--	220	--	--	--	--	.094	.34	.30	7.99	.054	E.033
JAN 1999												
03-03	--	--	--	--	--	--	1.01	2.7	7.8	3.46	.093	.851
JAN												
03-03	--	--	--	--	--	--	1.01	2.7	8.1	3.49	.098	.796
JAN												
09-09	--	--	--	--	--	--	1.14	3.9	5.1	1.98	.075	1.22
13...	22	196	44	.14	7.8	46	.093	.48	.65	8.51	.031	.179
JAN												
24-24	--	--	--	--	--	--	.359	1.3	3.2	4.89	.052	.434
FEB												
02-02	--	--	--	--	--	--	.492	1.4	2.6	4.61	.067	.370
09...	--	--	--	--	--	--	.056	.42	.45	10.4	.025	.030
FEB												
18-18	--	--	--	--	--	--	.413	1.4	2.1	4.22	.042	.330
MAR												
03-04	--	--	--	--	--	--	.294	1.0	3.7	4.47	.055	.307
09...	--	--	--	--	--	--	<.020	.24	.39	9.98	.017	.068
09...	--	--	--	--	--	--	<.020	.23	.41	9.68	.021	.065
MAR												
21-22	--	--	--	--	--	--	<.020	1.6	3.2	3.27	.052	.292
APR												
08...	--	--	--	--	--	--	<.020	.26	.46	9.76	.040	.061
APR												
09-09	--	--	--	--	--	--	.312	1.1	2.5	5.24	.101	.182
APR												
09-10	--	--	--	--	--	--	.291	1.3	2.7	4.12	.083	.215
APR												
11-11	--	--	--	--	--	--	.154	.84	1.9	5.30	.038	.191
20...	--	204	--	--	--	--	.024	.32	.40	8.05	.037	.009
APR												
22-22	--	--	--	--	--	--	<.020	.52	--	6.57	.062	.049
29...	--	--	--	--	--	--	.032	.44	.53	8.07	.031	.047
MAY												
11...	--	--	--	--	--	--	.050	.41	.46	6.96	.062	.030
11...	--	--	--	--	--	--	.052	.31	.51	7.17	.062	.029
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13-13	--	--	--	--	--	--	<.020	.87	1.8	6.08	.117	.093
19...	--	--	--	--	--	--	.026	.38	.58	6.95	.166	.046
28...	--	--	--	--	--	--	.079	.44	.46	7.87	.079	.093
JUN												
10...	--	--	--	--	--	--	.502	.69	.52	--	--	--
JUN												
17-18	--	--	--	--	--	--	.422	2.3	3.5	2.87	.171	.428
18...	--	--	--	--	--	--	.079	.75	1.1	4.08	.068	.151
18...	--	--	--	--	--	--	.076	.80	1.0	4.04	.068	.153
28...	--	--	--	--	--	--	.059	.49	.84	5.14	.066	.145
JUL												
07...	--	205	--	--	--	--	.032	.38	.50	4.19	.056	.098
20...	--	--	--	--	--	--	.024	.47	.41	4.56	.038	.081
28...	--	--	--	--	--	--	.031	.35	.33	4.26	.039	.099
28...	--	--	--	--	--	--	.034	.37	.35	4.26	.040	.099
AUG												
04...	--	--	--	--	--	--	.039	.27	.34	3.50	.021	.109



## CONESTOGA RIVER BASIN

## 01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

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

DATE	TIME	AGENCY ANALYZING 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)	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)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	
AUG 1999													
14-14	1837	80020	1028	10	--	--	--	--	--	.561	2.8	4.6	
17...	0950	80020	1028	--	.19	7.0	7.1	689	21.9	.039	.39	.46	
27...	0845	80020	1028	--	.24	6.3	7.5	627	20.7	.030	.62	.69	
SEP													
07-07	0422	80020	1028	13	--	--	--	--	--	.294	1.3	4.2	
08...	0735	80020	1028	--	.27	5.8	7.4	584	20.6	.031	.42	.70	
08...	0830	80020	1028	--	.24	--	--	--	--	--	--	--	
SEP													
16-17	0800	80020	1028	71	--	--	--	--	--	.190	.74	3.0	
22...	0910	80020	1028	--	2.7	8.7	6.8	576	14.1	.193	.94	1.5	
28...	0830	80020	1028	--	.39	8.6	7.0	777	17.5	.975	1.6	1.9	
SEP													
30-30	0322	80020	1028	9.2	--	--	--	--	--	.299	1.6	2.9	
DATE		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)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M <sup>2</sup> ) (70957)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M <sup>2</sup> ) (70958)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M) (00573)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
AUG 1999													
14-14	3.06	.241	.611	.458	1.35	71	--	--	--	--	--	--	255
17...	4.10	.022	.129	--	.163	.70	--	--	--	--	--	--	16
27...	3.65	.028	.186	--	.192	1.2	--	--	--	--	--	--	1
SEP													
07-07	1.45	.074	--	.686	2.18	--	--	--	--	--	--	--	622
08...	3.45	.034	.190	--	.273	4.3	--	--	--	--	--	--	12
08...	--	--	--	--	--	--	--	17.0	1.20	369.5	384.5	--	--
SEP													
16-17	2.66	.032	.500	.489	1.57	160	--	--	--	--	--	--	606
22...	4.42	.059	.322	--	.436	11	55000	--	--	--	--	--	9
28...	8.12	.205	.199	--	.529	4.3	--	--	--	--	--	--	1
SEP													
30-30	2.57	.062	.489	.396	1.38	110	--	--	--	--	--	--	240

## CONESTOGA RIVER BASIN

## 01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

BIOLOGICAL DATA, MAY AND SEPTEMBER 1999  
BENTHIC MACROINVERTEBRATES

REMARKS.--Rapid bioassessments for benthic macroinvertebrates were conducted in May and September 1999. Samples represent counts per 200-organism (approximate) subsamples.

Benthic Macroinvertebrate	May 1999	Sept. 1999
Platyhelminthes	--	--
Turbellaria (FLATWORMS)	--	--
Tricladida	--	--
Planariidae	3	4
Nematoda	--	1
Annelida	--	--
Oligochaeta (AQUATIC EARTHWORMS)	--	--
Haplotaxida	--	--
Tubificidae	--	38
<i>Limnodrilus hoffmeisteri</i>	6	--
<i>Limnodrilus</i> sp	14	--
Naididae	--	--
<i>Nais bretscheri</i>	85	--
<i>Nais</i> sp	48	--
Hirudinea (LEECHES)	--	--
Pharyngobdellida	--	--
Erpobdellidae	--	--
<i>Erpobdella punctata</i>	--	2
Mollusca	--	--
Gastropoda (SNAILS)	--	--
Basommatophora	--	--
Physidae	--	--
<i>Physella</i> sp	--	3
Pelecypoda (CLAMS)	--	--
Veneroida	--	--
Sphaeriidae	3	--
Arthropoda	--	--
Crustacea	--	--
Isopoda (AQUATIC SOWBUGS)	--	--
Asellidae	--	--
<i>Caecidotea communis</i>	--	6
Amphipoda (SCUDS)	--	9
Gammaridae	--	--
<i>Gammarus</i> sp	--	1
Talitridae	--	--
<i>Hyalella azteca</i>	--	50
Copepoda (COPEPODS)	2	--
Insecta	--	--
Ephemeroptera (MAYFLIES)	--	--
Siphonuridae	--	--
<i>Siphonurus</i> sp	--	2
Baetidae	--	--
<i>Baetis flavistriga</i>	2	--
Odonata	--	--
Coenagrionidae (DAMSELFLIES)	--	4
<i>Argia</i> sp	--	1
<i>Enallagma</i> sp	--	2
Libellulidae	--	--
<i>Libellula</i> sp	--	1
Hemiptera (TRUE BUGS)	--	--
Corixidae (WATER BOATMEN)	--	6
<i>Sigara</i> sp	--	1
Coleoptera (BEETLES)	--	--
Halipidae (CRAWLING WATER BEETLES)	--	--
<i>Peltodytes</i> sp	--	1
Dytiscidae (PREDACEOUS DIVING BEETLES)	--	--
<i>Agabus</i> sp	1	--
Psephenidae (RIFFLE BEETLES)	--	--
<i>Ectopria nervosa</i>	--	1
Sciirtidae	--	1
Elmidae	1	--
<i>Dubiraphia</i> sp	--	1
<i>Optioservus</i> sp	2	1
<i>Stenelmis</i> sp	6	15
Trichoptera (CADDIS FLIES)	--	--
Hydropsychidae	--	--
<i>Cheumatopsyche</i> sp	--	4
Hydroptilidae	--	--
<i>Orthotrichia</i> sp	--	2

## CONESTOGA RIVER BASIN

01576529 UNNAMED TRIBUTARY TO BIG SPRING RUN NEAR LAMPETER, PA--Continued

BIOLOGICAL DATA, MAY AND SEPTEMBER 1999  
BENTHIC MACROINVERTEBRATES--Continued

Benthic Macroinvertebrate	May 1999	Sept. 1999
Diptera	--	--
Ceratopogonidae (BITING MIDGES)	--	--
<i>Bezzia/Palpomia</i> sp	--	1
Simuliidae (BLACK FLIES)	--	--
<i>Simulium</i> sp	1	--
Tabanidae (HORSEFLIES)	--	--
<i>Chrysops</i> sp	--	1
Chironomidae (MIDGES)	--	--
Tanypodinae	1	--
<i>Clinotanytus</i> sp	--	28
<i>Thienemannimyia</i> gr sp	1	2
Orthoclaadiinae	--	--
<i>Orthocladus obumbratus</i>	2	--
<i>Orthocladus</i> sp	7	--
<i>Parakiefferiella</i> sp	4	--
<i>Parametriocnemus</i> sp	1	--
<i>Thienemanniella</i> sp	--	1
Chironominae	--	--
<i>Micropsectra</i> sp	7	--
<i>Paratendipes</i> sp	2	--
<i>Polypedilum convictum</i>	--	4
<i>Rheotanytarsus</i> sp	1	19
<i>Tanytarsus</i> sp	1	--
Total organisms	201	213