

CONESTOGA RIVER BASIN

01576754 CONESTOGA RIVER AT CONESTOGA, PA

LOCATION.--Lat 39°56'47", long 76°22'05", Lancaster County, Hydrologic Unit 02050306, on left bank on SR 3030, 1,500 ft downstream from Little Conestoga Creek, 1.0 mi west of Conestoga, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--470 mi².

PERIOD OF RECORD.--October 1984 to current year.

REVISED RECORDS.--WDR PA-86-2: 1985(M).

GAGE.--Water-stage recorder. Datum of gage is 180.45 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 19	0145	13,300	10.81	Sept. 17	0900	*18,700	*14.17

**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	148	188	179	e115	457	989	561	398	206	169	76	87
2	133	190	167	e106	805	694	604	385	209	137	77	82
3	133	188	164	778	1450	535	551	378	269	146	79	79
4	178	182	161	1280	794	934	515	380	249	127	75	78
5	180	180	160	374	654	905	525	368	222	115	71	89
6	173	165	165	284	571	676	509	353	202	126	67	319
7	164	176	165	260	529	756	466	345	194	126	58	1250
8	853	162	166	201	571	655	449	377	200	115	59	872
9	1800	170	178	399	591	557	521	415	193	93	67	290
10	2160	187	166	1500	521	539	1290	350	180	90	70	482
11	843	201	163	559	476	537	943	326	174	107	74	353
12	490	183	153	378	476	509	1110	308	178	109	73	218
13	391	195	148	433	837	486	892	361	160	113	76	189
14	326	199	152	468	640	477	700	311	180	106	363	173
15	286	169	137	512	522	572	634	291	215	102	427	179
16	260	168	152	1240	472	694	627	278	215	98	264	5780
17	242	178	143	682	485	708	712	269	201	91	176	14100
18	237	168	136	4640	689	691	634	262	362	86	129	1780
19	238	161	151	7340	1030	621	565	278	302	79	95	1060
20	235	164	133	1310	656	531	546	273	219	87	103	812
21	219	160	139	844	567	550	552	260	209	96	122	796
22	222	165	142	984	519	2250	612	245	195	180	111	946
23	210	155	131	868	479	1410	635	260	190	120	82	862
24	209	166	136	1580	441	948	608	313	185	100	98	639
25	206	159	135	2110	432	836	542	335	166	91	94	556
26	204	226	130	1080	418	744	484	283	168	91	131	500
27	208	313	132	818	409	677	458	251	162	89	166	463
28	204	258	134	715	499	662	443	242	159	90	141	439
29	201	198	137	630	---	671	429	220	185	80	121	430
30	199	180	e140	548	---	589	413	217	153	77	102	1290
31	201	---	e128	498	---	544	---	211	---	77	94	---
TOTAL	11753	5554	4623	33534	16990	22947	18530	9543	6102	3313	3741	35193
MEAN	379	185	149	1082	607	740	618	308	203	107	121	1173
MAX	2160	313	179	7340	1450	2250	1290	415	362	180	427	14100
MIN	133	155	128	106	409	477	413	211	153	77	58	78
CFSM	.81	.39	.32	2.30	1.29	1.57	1.31	.65	.43	.23	.26	2.50
IN.	.93	.44	.37	2.65	1.34	1.82	1.47	.76	.48	.26	.30	2.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

MEAN	399	565	728	825	810	1092	871	758	506	496	355	441
MAX	1183	1348	2339	1887	1264	3145	2508	2148	1277	1202	659	1252
(WY)	1997	1997	1997	1996	1986	1994	1993	1989	1989	1988	1986	1987
MIN	158	185	149	343	323	366	274	308	203	107	121	166
(WY)	1998	1999	1999	1992	1992	1985	1985	1999	1999	1999	1999	1995

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1985 - 1999	
ANNUAL TOTAL	247612		171823			
ANNUAL MEAN	678		471		653	
HIGHEST ANNUAL MEAN					993	1994
LOWEST ANNUAL MEAN					389	1992
HIGHEST DAILY MEAN	4430	Jun 14	14100	Sep 17	14100	Sep 17 1999
LOWEST DAILY MEAN	e128	Dec 31	58	Aug 7	58	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	a134	Dec 23	67	Aug 5	67	Aug 5 1999
INSTANTANEOUS PEAK FLOW			18700	Sep 17	19000	Sep 9 1987
INSTANTANEOUS PEAK STAGE			14.17	Sep 17	14.37	Sep 9 1987
INSTANTANEOUS LOW FLOW			52	Aug 7	52	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.44		1.00		1.39	
ANNUAL RUNOFF (INCHES)	19.60		13.60		18.88	
10 PERCENT EXCEEDS	1380		843		1220	
50 PERCENT EXCEEDS	490		245		446	
90 PERCENT EXCEEDS	164		97		189	

a Computed using estimated daily discharges.
 e Estimated.

