

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)
Dec. 17	1130	5,480	6.47	Dec. 18	0300	*7,610	*7.63

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	193	247	309	1010	490	1160	494	348	247	139	137
2	296	189	226	294	839	470	992	485	458	289	124	143
3	284	190	204	286	712	462	895	470	456	260	120	140
4	271	187	193	282	599	481	818	450	366	259	118	123
5	445	185	179	283	576	605	768	435	333	286	168	126
6	410	184	176	278	648	587	751	422	317	267	158	120
7	302	185	173	269	651	530	792	403	309	235	130	112
8	272	187	171	266	671	633	730	388	294	234	122	108
9	256	188	172	267	618	604	714	385	281	348	112	111
10	246	275	171	257	1220	596	787	381	266	389	119	123
11	241	291	169	247	1190	536	751	369	262	338	462	173
12	234	247	170	239	760	503	873	354	259	279	641	156
13	226	211	164	236	667	1000	755	345	255	235	934	135
14	220	208	461	231	656	1100	673	338	265	215	339	123
15	215	211	635	248	745	766	627	330	259	201	236	106
16	212	210	398	279	739	698	814	316	296	194	197	102
17	222	195	3890	288	896	825	965	306	376	192	176	103
18	273	189	3840	276	759	810	1050	310	358	190	164	99
19	327	175	962	524	617	698	e968	315	272	190	153	100
20	278	177	721	1820	578	619	e772	306	243	177	271	131
21	237	174	602	915	568	803	e718	379	316	166	194	228
22	220	175	530	601	538	1410	e697	506	330	161	164	196
23	210	172	475	493	511	920	701	549	1910	164	151	161
24	208	166	444	451	516	744	671	438	591	161	142	141
25	208	164	394	423	508	689	638	350	391	152	138	695
26	206	265	377	392	681	648	608	459	325	151	136	567
27	201	283	381	369	653	616	582	852	291	151	130	264
28	200	287	352	360	538	581	567	834	269	140	130	192
29	195	234	330	344	---	576	543	519	259	140	134	166
30	205	261	326	494	---	2180	512	418	247	144	134	159
31	196	---	319	1410	---	1850	---	368	---	152	128	---
TOTAL	7824	6258	17852	13431	19664	24030	22892	13274	11202	6707	6464	5240
MEAN	252	209	576	433	702	775	763	428	373	216	209	175
MAX	445	291	3890	1820	1220	2180	1160	852	1910	389	934	695
MIN	195	164	164	231	508	462	512	306	243	140	112	99
CFSM	.54	.44	1.23	.92	1.49	1.65	1.62	.91	.79	.46	.44	.37
IN.	.62	.50	1.41	1.06	1.56	1.90	1.81	1.05	.89	.53	.51	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

	403	534	710	776	801	1111	865	733	514	475	340	425
MEAN	403	534	710	776	801	1111	865	733	514	475	340	425
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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01576754 CONESTOGA RIVER AT CONESTOGA, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL TOTAL	223070		154838			
ANNUAL MEAN	609		424		640	
HIGHEST ANNUAL MEAN					993	1994
LOWEST ANNUAL MEAN					389	1992
HIGHEST DAILY MEAN	13900	Mar 22	3890	Dec 17	14100	Sep 17 1999
LOWEST DAILY MEAN	164	Nov 25	99	Sep 18	58	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	170	Dec 7	109	Sep 14	67	Aug 5 1999
MAXIMUM PEAK FLOW			7610	Dec 18	19000	Sep 9 1987
MAXIMUM PEAK STAGE			7.63	Dec 18	14.37	Sep 9 1987
INSTANTANEOUS LOW FLOW			92	Sep 18	52	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.30		.90		1.36	
ANNUAL RUNOFF (INCHES)	17.66		12.26		18.50	
10 PERCENT EXCEEDS	1110		770		1180	
50 PERCENT EXCEEDS	394		296		439	
90 PERCENT EXCEEDS	195		143		187	

a Result of freeze-up.

