

**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 mi<sup>2</sup>.

**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 daly 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 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)
Mar. 22	1445	*17,000	*13.12	June 26	0915	10,200	9.06
Mar. 28	1415	4,650	5.97				

**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	1160	328	387	396	e350	1180	1170	567	501	654	268	454
2	682	351	361	388	e330	1050	1100	571	476	565	262	770
3	567	631	336	387	e315	935	1050	581	458	531	280	605
4	567	575	325	401	302	836	1090	526	445	557	498	390
5	893	409	321	467	301	785	1190	511	428	508	426	253
6	786	359	429	443	292	736	948	522	529	473	305	228
7	594	337	848	373	285	680	867	509	929	441	300	207
8	507	326	515	359	283	643	842	486	555	412	285	195
9	468	316	403	350	275	626	1350	465	461	394	261	189
10	1170	306	430	441	283	606	1330	524	425	402	250	184
11	1690	297	555	856	308	713	950	655	400	433	238	181
12	842	298	508	594	382	1440	867	513	385	376	228	178
13	728	296	425	463	394	1120	813	474	951	344	219	564
14	671	289	943	e420	426	768	759	647	642	395	222	332
15	635	282	2110	389	765	694	744	516	520	734	223	1800
16	558	281	1010	369	711	657	767	434	495	568	255	595
17	527	279	761	e340	844	1190	897	407	484	424	292	339
18	526	267	691	e320	761	1160	976	395	421	374	234	276
19	509	252	625	e300	1080	767	861	582	621	358	216	277
20	486	249	584	e330	1330	717	744	1040	455	370	210	380
21	514	267	697	e300	1040	2060	746	1110	393	359	202	369
22	483	277	642	e280	882	13900	989	740	976	350	190	268
23	469	272	557	e270	1000	4970	840	1360	678	389	187	239
24	463	276	518	e260	1210	2510	736	1450	464	324	244	231
25	431	251	e480	e300	1430	1990	688	1240	411	313	209	242
26	400	334	458	e280	1500	1750	653	821	5700	340	189	1410
27	373	1490	450	e270	1240	1530	629	664	1460	377	180	828
28	359	903	442	e265	2150	2860	630	649	863	362	255	481
29	354	536	432	e260	1590	1810	611	614	811	315	198	383
30	345	427	415	e250	---	1430	587	562	839	289	199	337
31	334	---	403	e380	---	1270	---	525	---	282	210	---
TOTAL	19091	11761	18061	11501	22059	53383	26424	20660	23176	13013	7735	13185
MEAN	616	392	583	371	761	1722	881	666	773	420	250	440
MAX (WY)	1690	1490	2110	856	2150	13900	1350	1450	5700	734	498	1800
MIN	334	249	321	250	275	606	587	395	385	282	180	178
CFSM	1.31	.83	1.24	.79	1.62	3.66	1.87	1.42	1.64	.89	.53	.94
IN.	1.51	.93	1.43	.91	1.75	4.23	2.09	1.64	1.83	1.03	.61	1.04

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)**

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	413	554	719	797	807	1132	871	752	522	492	348	441				
MAX (WY)	1183	1348	2339	1887	1264	3145	2508	2148	1277	1202	659	1252				
MIN (WY)	1997	1997	1997	1996	1986	1994	1993	1989	1989	1988	1986	1987				
MIN (WY)	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000	
ANNUAL TOTAL	198806		240049			
ANNUAL MEAN	545		656		653	
HIGHEST ANNUAL MEAN					993	
LOWEST ANNUAL MEAN					389	
HIGHEST DAILY MEAN	14100	Sep 17	13900	Mar 22	14100	Sep 17 1999
LOWEST DAILY MEAN	58	Aug 7	178	Sep 12	58	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	67	Aug 5	195	Sep 6	67	Aug 5 1999
INSTANTANEOUS PEAK FLOW			17000	Mar 22	19000	Sep 9 1987
INSTANTANEOUS PEAK STAGE			13.12	Mar 22	14.37	Sep 9 1987
INSTANTANEOUS LOW FLOW			1.09	Jan 18	52	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.16		1.40		1.39	
ANNUAL RUNOFF (INCHES)	15.74		19.00		18.89	
10 PERCENT EXCEEDS	897		1160		1210	
50 PERCENT EXCEEDS	418		468		449	
90 PERCENT EXCEEDS	97		258		192	

a Result of freeze-up.

