

## WEST CONEWAGO CREEK BASIN

## 01574000 WEST CONEWAGO CREEK NEAR MANCHESTER, PA

**LOCATION.**--Lat 40°04'56", long 76°43'13", York County, Hydrologic Unit 02050306, on left bank 500 ft upstream from bridge on State Highway 181, 0.6 mi downstream from Little Conewago Creek, and 1.5 mi north of Manchester.

**DRAINAGE AREA.**--510 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1928 to current year. Prior to October 1931, published as Conewago Creek near Manchester.

**REVISED RECORDS.**--WSP 741: Drainage area. WSP 1502: 1930, 1936.

**GAGE.**--Water-stage recorder. Datum of gage is 263.68 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are fair. Occasional slight regulation since October 1959 by Conewago Lake about 13 miles upstream, capacity, 3,570 acre-ft. Gage height record affected at times by backwater from the Susquehanna River. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 10,800 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	0800	*16,000	*15.49	No other peak greater than base discharge.			

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	1890	133	212	211	e120	1360	636	456	303	280	148	195
2	642	134	200	205	e120	1100	575	428	265	173	164	861
3	412	155	206	210	e110	844	542	415	230	140	138	1140
4	389	180	198	219	e110	719	626	363	202	129	115	295
5	1320	209	152	223	e110	634	800	333	190	122	99	211
6	972	154	187	215	e100	536	588	315	245	123	108	149
7	532	133	226	200	e100	471	489	333	310	108	102	114
8	382	124	248	187	e100	432	458	298	291	90	98	99
9	308	179	201	187	e100	405	2340	265	211	83	112	88
10	1280	197	198	279	e110	381	1550	240	179	88	95	81
11	2510	192	291	1000	e130	471	928	235	160	78	80	79
12	917	187	367	760	e160	3210	759	253	160	74	69	78
13	591	185	272	496	e200	1850	644	225	157	70	68	139
14	485	182	1440	384	e240	970	558	224	146	69	62	128
15	443	181	3880	e220	e800	762	512	209	149	170	59	581
16	363	139	1310	e190	e650	648	501	196	197	565	57	490
17	315	197	865	e220	e1500	909	596	167	232	287	54	229
18	295	192	642	e190	e1000	989	2070	156	204	196	52	156
19	269	187	520	e180	e1300	647	3030	224	171	156	52	958
20	241	188	476	e160	e2500	562	1310	299	153	137	50	3540
21	229	189	583	e150	e1400	2930	1040	393	141	132	48	877
22	229	192	578	e140	e1000	13400	2390	420	205	136	48	432
23	216	194	433	e150	e800	3750	1900	580	378	111	47	278
24	195	193	363	e160	e700	2060	1300	1270	219	94	49	233
25	180	198	290	e150	e640	1420	964	1260	161	90	48	242
26	171	163	274	e140	e580	1180	779	639	230	88	47	1980
27	160	256	295	e150	e500	972	699	389	533	87	48	1770
28	150	429	289	e140	4250	1790	653	348	242	185	132	748
29	144	259	269	e120	2300	1360	594	450	197	150	176	479
30	138	210	219	e110	---	992	519	625	333	396	139	367
31	136	---	224	e110	---	801	---	375	---	211	99	---
TOTAL	16504	5711	15908	7456	21730	48555	30350	12383	6794	4818	2663	17017
MEAN	532	190	513	241	749	1566	1012	399	226	155	85.9	567
MAX	2510	429	3880	1000	4250	13400	3030	1270	533	565	176	3540
MIN	136	124	152	110	100	381	458	156	141	69	47	78
CFSM	1.04	.37	1.01	.47	1.47	3.07	1.98	.78	.44	.30	.17	1.11
IN.	1.20	.42	1.16	.54	1.59	3.54	2.21	.90	.50	.35	.19	1.24

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	277	461	670	790	968	1276	988	659	426	258	221	265
MAX	1783	1534	2578	3126	2526	4510	3273	2874	4445	1419	2423	3862
(WY)	1977	1933	1997	1996	1998	1994	1993	1989	1972	1969	1933	1975
MIN	9.71	14.7	43.3	37.7	86.2	345	253	135	52.7	12.2	13.3	12.0
(WY)	1942	1932	1966	1981	1934	1931	1995	1941	1965	1966	1930	1964

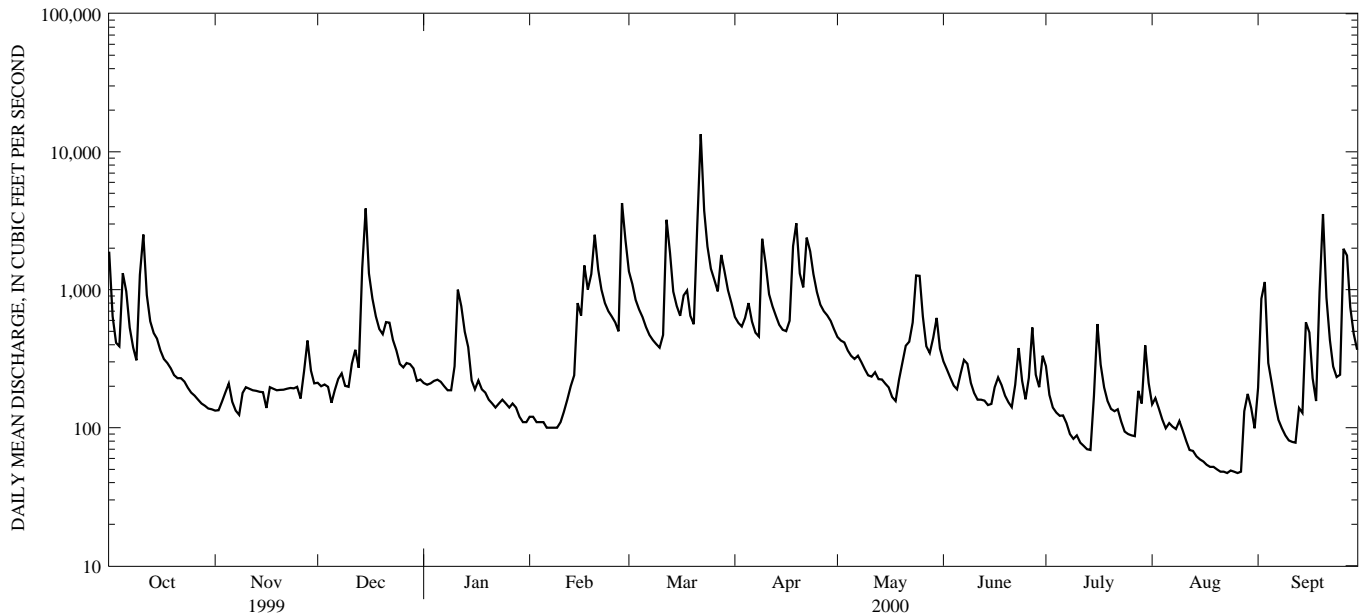
e Estimated.

WEST CONEWAGO CREEK BASIN

01574000 WEST CONEWAGO CREEK NEAR MANCHESTER, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	152704		189889			
ANNUAL MEAN	418		519		603	
HIGHEST ANNUAL MEAN					1117	1972
LOWEST ANNUAL MEAN					154	1931
HIGHEST DAILY MEAN	6130	Jan 24	13400	Mar 22	64000	Sep 26 1975
LOWEST DAILY MEAN	23	Aug 13,20	47	Aug 23,26	2.0	Aug 8 1930
ANNUAL SEVEN-DAY MINIMUM	26	Aug 7	48	Aug 21	3.9	Aug 3 1966
INSTANTANEOUS PEAK FLOW			16000	Mar 22	<b>a</b> 96200	Sep 26 1975
INSTANTANEOUS PEAK STAGE			15.49	Mar 22	<b>b</b> 32.11	Sep 26 1975
INSTANTANEOUS LOW FLOW			43	Aug 27	1.9	Oct 13 1941
ANNUAL RUNOFF (CFSM)	.82		1.02		1.18	
ANNUAL RUNOFF (INCHES)	11.14		13.85		16.06	
10 PERCENT EXCEEDS	917		1200		1300	
50 PERCENT EXCEEDS	220		229		250	
90 PERCENT EXCEEDS	40		99		46	

**a** From rating curve extended above 45,000 ft<sup>3</sup>/s on basis of slope-area computation at gage height 30.26 ft.  
**b** From floodmark.



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000