

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	2245	*8,910	*10.83	(No peaks above 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	52	63	83	e42	317	464	377	335	107	50	39	55
2	47	58	75	e41	505	445	590	300	108	58	35	49
3	43	57	72	e100	1140	328	557	280	184	81	32	45
4	54	57	67	823	688	692	443	273	178	66	30	43
5	62	59	65	406	503	1150	405	258	170	62	28	44
6	55	65	63	202	413	701	431	243	123	61	26	52
7	78	66	60	187	363	808	379	235	107	56	24	412
8	117	66	61	133	401	618	311	278	100	50	25	119
9	157	65	66	200	517	462	375	613	93	45	29	87
10	396	64	69	e380	438	423	2340	410	87	43	28	94
11	291	69	69	e300	361	406	1500	290	81	41	26	72
12	191	70	68	322	319	380	2110	242	76	37	25	61
13	135	71	66	323	322	337	1380	318	76	37	23	54
14	103	72	61	599	328	314	918	650	85	38	49	49
15	85	71	59	489	283	363	696	351	105	36	71	56
16	79	72	58	329	251	523	696	277	94	34	38	1960
17	116	72	58	311	254	938	764	247	100	33	29	3320
18	137	72	57	1490	442	1760	606	225	125	30	27	730
19	133	72	56	4130	687	1050	504	200	100	30	25	332
20	132	74	55	1840	477	728	480	186	96	30	23	220
21	129	77	55	1040	372	733	534	171	96	31	37	193
22	122	76	58	1350	311	3510	662	156	87	66	43	201
23	118	75	57	1920	257	1600	1250	163	81	80	34	210
24	118	75	e54	6130	227	1030	1250	206	77	45	37	194
25	118	75	e50	4170	218	835	832	224	70	37	59	150
26	118	96	e48	1460	215	677	625	189	64	34	69	120
27	120	110	e46	930	214	546	537	156	61	35	121	103
28	122	98	e45	701	278	499	459	138	58	40	81	98
29	121	114	e47	546	---	468	406	125	56	40	89	105
30	96	94	e44	451	---	422	367	114	53	40	68	2570
31	68	---	e42	373	---	370	---	109	---	42	62	---
TOTAL	3713	2225	1834	31718	11101	23580	22784	7962	2898	1408	1332	11798
MEAN	120	74.2	59.2	1023	396	761	759	257	96.6	45.4	43.0	393
MAX	396	114	83	6130	1140	3510	2340	650	184	81	121	3320
MIN	43	57	42	41	214	314	311	109	53	30	23	43
CFSM	.23	.15	.12	2.01	.78	1.49	1.49	.50	.19	.09	.08	.77
IN.	.27	.16	.13	2.31	.81	1.72	1.66	.58	.21	.10	.10	.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

MEAN	273	465	672	798	971	1272	987	662	429	259	223	261
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.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1929 - 1999	
ANNUAL TOTAL	328403		122353		604	
ANNUAL MEAN	900		335		1117	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					154	
HIGHEST DAILY MEAN	10400	Feb 24	6130	Jan 24	64000	Sep 26 1975
LOWEST DAILY MEAN	39	Sep 21	23	Aug 13,20	2.0	Aug 8 1930
ANNUAL SEVEN-DAY MINIMUM	43	Sep 15	26	Aug 7	3.9	Aug 3 1966
INSTANTANEOUS PEAK FLOW			8910	Jan 24	a 96200	Sep 26 1975
INSTANTANEOUS PEAK STAGE			10.83	Jan 24	b 32.11	Sep 26 1975
INSTANTANEOUS LOW FLOW			21	Aug 20	1.9	Oct 13 1941
ANNUAL RUNOFF (CFSM)	1.76		.66		1.18	
ANNUAL RUNOFF (INCHES)	23.95		8.92		16.09	
10 PERCENT EXCEEDS	2300		712		1300	
50 PERCENT EXCEEDS	226		118		251	
90 PERCENT EXCEEDS	55		40		46	

a From rating curve extended above 45,000 ft³/s on basis of slope-area computation at gage height 30.26 ft.
b From floodmark.

