

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 poor. 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)
Dec. 17	1800	*15,500	*15.17	No other peak greater than base discharge.			

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	305	93	190	e225	e1730	365	1650	294	130	77	30	33
2	276	96	183	e210	e1370	339	1180	277	155	82	27	32
3	247	154	150	e192	1100	326	980	261	144	67	25	30
4	218	157	124	e186	742	329	844	246	161	63	80	31
5	191	154	117	e184	643	545	733	233	140	63	65	30
6	177	152	113	e190	628	706	678	217	126	63	101	27
7	169	150	108	e196	735	611	690	201	114	61	84	24
8	155	148	115	e205	871	1000	648	192	104	82	60	22
9	145	102	111	e198	740	854	660	189	98	78	47	21
10	142	116	100	e175	828	722	945	186	92	70	43	22
11	139	224	102	e171	799	585	902	181	87	74	50	23
12	129	270	105	e180	567	517	1360	171	83	66	42	22
13	127	195	108	e178	488	1500	1080	160	90	60	41	22
14	121	175	261	e171	486	1550	815	151	302	58	44	25
15	114	170	926	e175	544	905	678	146	172	58	46	21
16	111	162	682	e184	564	773	1240	140	163	55	88	19
17	117	156	9760	e190	799	1040	1780	135	192	49	65	16
18	123	110	4980	e198	761	1120	1190	133	148	42	52	16
19	134	93	1420	e354	502	798	920	132	131	39	43	16
20	181	90	e982	e1900	455	642	707	138	111	38	65	16
21	152	86	e723	e1200	450	941	643	164	103	36	98	16
22	126	87	e585	e760	412	3680	610	263	188	36	122	19
23	118	85	e468	e564	366	1670	564	460	260	35	76	17
24	108	77	e399	e503	355	1080	514	485	327	32	57	45
25	108	77	e360	e469	382	863	467	279	227	30	47	212
26	103	99	e343	e415	498	704	425	217	153	40	42	232
27	101	327	e312	e381	522	612	390	216	124	40	38	182
28	100	329	e291	e361	414	544	357	235	107	31	35	107
29	94	208	e282	e327	---	519	331	203	92	30	32	75
30	94	177	e265	e706	---	5740	307	177	83	30	30	60
31	92	---	e243	e2720	---	3210	---	144	---	30	30	---
TOTAL	4517	4519	24908	14068	18751	34790	24288	6626	4407	1615	1705	1433
MEAN	146	151	803	454	670	1122	810	214	147	52.1	55.0	47.8
MAX	305	329	9760	2720	1730	5740	1780	485	327	82	122	232
MIN	92	77	100	171	355	326	307	132	83	30	25	16
CFSM	.29	.30	1.58	.89	1.31	2.20	1.59	.42	.29	.10	.11	.09
IN.	.33	.33	1.82	1.03	1.37	2.54	1.77	.48	.32	.12	.12	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	275	457	672	785	964	1274	985	653	422	255	219	262
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	185710		141627		600	
ANNUAL MEAN	507		388		1117	
HIGHEST ANNUAL MEAN					154	1972
LOWEST ANNUAL MEAN					154	1931
HIGHEST DAILY MEAN	13400	Mar 22	9760	Dec 17	64000	Sep 26 1975
LOWEST DAILY MEAN	47	Aug 23,26	16	Sep 17-21	2.0	Aug 8 1930
ANNUAL SEVEN-DAY MINIMUM	48	Aug 21	17	Sep 17	3.9	Aug 3 1966
MAXIMUM PEAK FLOW			15500	Dec 17	a 96200	Sep 26 1975
MAXIMUM PEAK STAGE			15.17	Dec 17	b 32.11	Sep 26 1975
INSTANTANEOUS LOW FLOW			14	Sep 24	1.9	Oct 13 1941
ANNUAL RUNOFF (CFSM)	.99		.76		1.18	
ANNUAL RUNOFF (INCHES)	13.55		10.33		15.98	
10 PERCENT EXCEEDS	1010		858		1300	
50 PERCENT EXCEEDS	205		172		250	
90 PERCENT EXCEEDS	90		35		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.

