

## EAST MAHANTANGO CREEK BASIN

## 01555500 EAST MAHANTANGO CREEK NEAR DALMATIA, PA

**LOCATION.**--Lat 40°36'40", long 76°54'44", Northumberland County, Hydrologic Unit 02050301, on right bank at bridge on SR 3017, 2.0 mi upstream from mouth, and 3.2 mi south of Dalmatia.

**DRAINAGE AREA.**--162 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1929 to current year. Prior to October 1945, published as Mahantango Creek East near Dalmatia.

**REVISED RECORDS.**--WSP 891: 1933(M). WSP 1302: 1930(M), 1938(M).

**GAGE.**--Water-stage recorder. Datum of gage is 401.22 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1929, to Feb. 11, 1930, nonrecording gage, and Feb. 12, 1930, to Nov. 18, 1973, water-stage recorder at present site at datum 0.72 ft lower. Nov. 19, 1973, to June 18, 1974, nonrecording gage at site 2 mi upstream at different datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Intermittent regulation evident during low flows. 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 1,900 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)
May 18	1900	*1,320	*4.56	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	20	71	e37	101	44	341	217	117	58	13	17
2	34	21	84	e37	109	43	277	364	109	52	13	16
3	30	21	65	e38	96	156	240	512	97	48	12	16
4	28	21	54	e40	94	225	212	384	89	43	11	17
5	26	21	46	e38	e84	151	188	323	87	36	12	15
6	25	20	45	e39	e77	142	181	279	97	32	11	12
7	23	19	43	e50	e76	127	166	251	149	30	10	10
8	22	19	44	e46	e77	116	151	226	111	29	11	9.4
9	21	19	67	e42	71	107	148	234	89	31	11	9.0
10	20	19	84	e41	67	160	174	228	81	47	8.7	8.4
11	20	18	69	e50	116	161	151	183	75	44	7.9	7.5
12	21	18	60	e57	124	135	132	166	71	34	8.3	6.8
13	22	18	56	e86	112	133	131	193	86	30	8.7	6.2
14	21	18	56	e75	e92	129	150	225	120	29	8.8	6.0
15	25	18	67	e67	e88	121	387	204	190	27	8.6	7.3
16	47	18	64	e62	91	117	417	170	163	27	9.7	22
17	38	18	58	e59	86	110	350	158	128	23	11	51
18	35	18	136	e58	76	131	302	792	105	20	20	32
19	33	17	250	e58	67	185	268	890	92	21	16	22
20	29	19	190	e69	68	237	252	567	78	24	13	18
21	27	19	141	e62	69	532	227	433	69	23	11	17
22	26	20	111	e58	66	430	209	350	62	22	9.4	21
23	25	19	93	e55	58	337	185	293	57	20	11	90
24	24	19	e80	e70	53	283	162	254	55	21	12	82
25	23	25	e69	e192	51	241	151	222	54	29	13	43
26	23	150	e56	e166	50	233	151	197	51	24	14	33
27	22	89	e50	e143	53	866	134	183	53	21	14	162
28	21	55	e44	124	50	658	151	162	145	21	12	682
29	21	44	e40	110	---	486	272	153	93	27	12	317
30	21	45	e39	105	---	394	213	138	69	24	15	171
31	20	---	e38	104	---	326	---	125	---	17	18	---
TOTAL	809	865	2370	2238	2222	7516	6473	9076	2842	934	366.1	1926.6
MEAN	26.1	28.8	76.5	72.2	79.4	242	216	293	94.7	30.1	11.8	64.2
MAX	47	150	250	192	124	866	417	890	190	58	20	682
MIN	20	17	38	37	50	43	131	125	51	17	7.9	6.0
CFSM	0.16	0.18	0.47	0.45	0.49	1.50	1.33	1.81	0.58	0.19	0.07	0.40
IN.	0.19	0.20	0.54	0.51	0.51	1.73	1.49	2.08	0.65	0.21	0.08	0.44

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

MEAN	124	206	280	275	307	425	366	278	175	98.6	74.7	97.0
MAX	1025	553	852	1259	831	1212	1160	986	2361	504	585	1112
(WY)	1977	1951	1997	1996	1981	1994	1993	1989	1972	1947	1933	1975
MIN	5.14	8.65	14.0	12.4	54.3	111	126	67.5	29.7	13.5	9.36	3.98
(WY)	1931	1931	1931	1981	1934	1931	1965	1941	1965	1965	1957	1932

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	47189		37637.7			
ANNUAL MEAN	129		103		225	
HIGHEST ANNUAL MEAN					454	1972
LOWEST ANNUAL MEAN					70.7	1931
HIGHEST DAILY MEAN	728	Mar 31	890	May 19	39000	Jun 22 1972
LOWEST DAILY MEAN	16	Sep 18,19	6.0	Sep 14	1.5	Sep 21 1932
ANNUAL SEVEN-DAY MINIMUM	17	Sep 13	7.3	Sep 9	1.7	Sep 16 1932
MAXIMUM PEAK FLOW			1320	May 18	<b>a</b> 69900	Jun 22 1972
MAXIMUM PEAK STAGE			4.56	May 18	<b>b</b> 26.62	Jun 22 1972
INSTANTANEOUS LOW FLOW			5.7	Sep 15	1.3	Oct 7 1957 <sup>c</sup>
ANNUAL RUNOFF (CFSM)	0.80		0.64		1.39	
ANNUAL RUNOFF (INCHES)	10.84		8.64		18.87	
10 PERCENT EXCEEDS	332		238		489	
50 PERCENT EXCEEDS	75		58		118	
90 PERCENT EXCEEDS	21		14		23	

- a** From rating curve extended above 5,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- b** From floodmark in gage.
- c** Also Nov. 3, 1964.

