

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 mi².

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 sea level. 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1645	*4,370	*8.37	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	45	56	75	e102	e310	164	568	151	52	96	48	33
2	43	54	67	e99	e272	163	469	142	67	134	41	31
3	42	52	60	e94	e260	160	394	133	117	88	38	27
4	41	51	e71	e90	e230	153	363	125	121	84	46	24
5	104	50	e80	e85	e214	168	306	119	85	112	120	24
6	109	52	e76	e84	e209	151	333	110	73	105	91	28
7	86	46	e69	e84	e208	150	445	102	66	81	58	27
8	72	45	e65	e81	e207	168	406	97	60	70	45	23
9	62	45	e61	e81	e224	204	377	95	55	74	40	20
10	56	62	e62	e78	392	222	364	91	52	72	38	21
11	52	82	63	e78	406	222	332	87	51	88	119	19
12	49	65	60	e76	313	219	334	84	48	69	77	18
13	45	56	61	e75	272	410	317	79	95	55	60	17
14	41	52	57	e75	252	536	290	74	77	51	172	18
15	40	52	73	e77	272	446	272	71	59	48	103	18
16	40	49	93	e78	261	392	449	69	63	44	68	18
17	41	46	3090	e74	299	379	592	66	175	42	56	17
18	203	45	1920	e72	274	363	718	67	154	41	51	16
19	365	43	917	e87	e257	330	613	65	105	38	45	16
20	236	41	610	e160	e249	314	493	63	86	35	42	17
21	172	41	e433	e168	e222	329	424	62	253	32	38	22
22	135	e41	e320	e149	200	523	368	85	434	30	37	24
23	109	e40	e261	e135	e184	477	320	113	392	29	33	22
24	96	e38	e231	e121	e178	416	285	84	339	28	32	31
25	88	e38	e203	e107	e177	360	250	68	245	61	31	332
26	82	e46	e175	e98	218	317	224	64	189	451	29	175
27	76	97	e160	e95	192	278	207	68	151	143	26	90
28	71	89	e137	e92	178	249	192	65	126	90	25	62
29	64	72	e124	e92	---	231	170	69	109	71	24	48
30	61	73	e115	e115	---	714	159	63	100	61	24	40
31	58	---	e104	e224	---	728	---	53	---	54	24	---
TOTAL	2784	1619	9893	3126	6930	9936	11034	2684	3999	2477	1681	1278
MEAN	89.8	54.0	319	101	248	321	368	86.6	133	79.9	54.2	42.6
MAX	365	97	3090	224	406	728	718	151	434	451	172	332
MIN	40	38	57	72	177	150	159	53	48	28	24	16
CFSM	.55	.33	1.97	.62	1.53	1.98	2.27	.53	.82	.49	.33	.26
IN.	.64	.37	2.27	.72	1.59	2.28	2.53	.62	.92	.57	.39	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

MEAN	126	208	283	278	310	428	368	277	176	99.5	75.6	97.5
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 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1930 - 2001		
ANNUAL TOTAL	80322.0			57441			227		
ANNUAL MEAN	219			157			454		
HIGHEST ANNUAL MEAN							1972		
LOWEST ANNUAL MEAN							70.7		
HIGHEST DAILY MEAN	3090	Dec 17		3090	Dec 17		39000	Jun 22 1972	
LOWEST DAILY MEAN	34	Aug 27		16	Sep 18,19		1.5	Sep 21 1932	
ANNUAL SEVEN-DAY MINIMUM	38	Sep 6		17	Sep 13		1.7	Sep 16 1932	
MAXIMUM PEAK FLOW				4370	Dec 17		a69900	Jun 22 1972	
MAXIMUM PEAK STAGE				8.37	Dec 17		b26.62	Jun 22 1972	
INSTANTANEOUS LOW FLOW				15	Sep 20		1.3	Oct 7 1957c	
ANNUAL RUNOFF (CFSM)	1.35			.97			1.40		
ANNUAL RUNOFF (INCHES)	18.44			13.19			19.01		
10 PERCENT EXCEEDS	454			363			492		
50 PERCENT EXCEEDS	117			85			120		
90 PERCENT EXCEEDS	45			33			23		

- a From rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow.
- b From floodmark in gage.
- c Also Nov. 3, 1964.

