

## OSWAYO CREEK BASIN

## 03010655 OSWAYO CREEK AT SHINGLEHOUSE, PA

**LOCATION.**--Lat 41°57'42", long 78°11'54", Potter County, Hydrologic Unit 05010001, on right bank 200 ft upstream from bridge on State Highway 44 at Shinglehouse and 0.7 mi upstream from Honeoye Creek.

**DRAINAGE AREA.**--98.7 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1974 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,460.34 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark).

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 1,000 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	0600	*1,940	*9.72	Aug. 10	1200	1,730	9.37
July 22	1500	1,620	9.17	Aug. 12	1200	1,840	9.55
Aug. 1	1700	1,400	8.78	Sept. 4	0800	1,190	8.32
Aug. 3	0400	1,110	8.12				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	20	e41	e151	e48	e170	249	58	161	58	924	120
2	11	22	e39	e184	e48	e159	333	87	158	52	919	446
3	12	21	e38	e222	e45	e143	336	75	165	47	919	380
4	13	21	e36	e201	e59	e135	381	74	171	43	772	1010
5	12	20	e34	e186	e114	e128	772	80	177	46	546	649
6	11	25	e33	e169	e83	e115	740	87	149	39	431	400
7	9.7	26	e32	e149	e75	100	589	85	142	37	348	286
8	8.8	25	e31	e138	e73	92	465	87	134	35	286	220
9	8.3	24	e31	e127	e67	142	382	80	153	42	368	176
10	8.4	23	e30	e113	e65	126	315	76	125	39	1480	145
11	8.4	31	e38	e100	e61	129	268	79	128	53	1080	121
12	8.8	29	e47	e88	e60	108	248	98	159	36	1520	101
13	9.2	30	e78	e80	e58	107	226	95	218	31	1030	89
14	9.8	28	e120	e74	e57	94	204	94	233	28	600	83
15	8.5	26	e177	e70	e56	120	184	92	235	25	403	77
16	11	29	e136	e65	59	252	168	111	206	30	309	87
17	19	119	e110	e61	e69	629	150	107	174	25	244	65
18	16	118	e97	e58	e71	1250	136	103	155	175	191	58
19	23	89	e116	e58	e71	1250	123	100	132	124	154	64
20	27	77	e246	e56	e67	1140	112	96	111	85	127	71
21	20	70	372	e53	e60	1530	110	116	224	345	107	58
22	16	111	319	e53	75	1840	110	96	197	1420	93	55
23	15	122	257	e50	e148	1280	99	89	196	1150	81	121
24	13	115	208	e51	240	846	88	102	180	1250	70	94
25	13	109	e182	e49	e231	649	81	92	155	977	63	106
26	34	97	160	e50	e198	614	77	88	130	593	67	103
27	29	88	136	e48	e185	495	73	84	109	432	116	103
28	24	78	e112	e47	e178	396	67	82	91	354	69	724
29	22	e63	e100	e46	---	360	64	78	76	256	62	617
30	20	e48	97	e48	---	311	59	72	68	204	100	429
31	19	---	116	e51	---	272	---	112	---	168	68	---
TOTAL	471.9	1704	3569	2896	2621	14982	7209	2775	4712	8199	13547	7058
MEAN	15.2	56.8	115	93.4	93.6	483	240	89.5	157	264	437	235
MAX	34	122	372	222	240	1840	772	116	235	1420	1520	1010
MIN	8.3	20	30	46	45	92	59	58	68	25	62	55
CFSM	0.15	0.58	1.17	0.95	0.95	4.90	2.43	0.91	1.59	2.68	4.43	2.38
IN.	0.18	0.64	1.35	1.09	0.99	5.65	2.72	1.05	1.78	3.09	5.11	2.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2003, BY WATER YEAR (WY)

MEAN	89.0	148	178	159	197	282	310	170	127	72.3	65.1	66.8
MAX	331	371	318	388	561	517	755	489	612	264	437	452
(WY)	1991	1997	1978	1979	1976	1979	1993	1996	1989	2003	2003	1977
MIN	8.35	9.35	28.7	27.0	41.2	120	131	50.8	6.28	7.69	7.12	6.08
(WY)	1992	1999	1999	2001	1987	1981	1976	1993	1993	1993	1991	1991

e Estimated.

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## 03010655 OSWAYO CREEK AT SHINGLEHOUSE, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1975 - 2003	
ANNUAL TOTAL	51525.7		69743.9			
ANNUAL MEAN	141		191		155	
HIGHEST ANNUAL MEAN					222	1994
LOWEST ANNUAL MEAN					85.0	2001
HIGHEST DAILY MEAN	1530	Jun 7	1840	Mar 22	3270	Jun 21 1989
LOWEST DAILY MEAN	6.6	Sep 26	8.3	Oct 9	3.2	Sep 13 1989
ANNUAL SEVEN-DAY MINIMUM	7.4	Sep 8	8.8	Oct 9	4.1	Aug 31 1999
MAXIMUM PEAK FLOW			1940	Mar 22	<b>a</b> 4660	Jan 19 1996
MAXIMUM PEAK STAGE			9.72	Mar 22	<b>b</b> 12.74	Jan 19 1996
INSTANTANEOUS LOW FLOW			8.0	Oct 8-10,15,16	3.5	Sep 6 1999
ANNUAL RUNOFF (CFSM)	1.43		1.94		1.57	
ANNUAL RUNOFF (INCHES)	19.42		26.29		21.35	
10 PERCENT EXCEEDS	352		431		354	
50 PERCENT EXCEEDS	91		97		85	
90 PERCENT EXCEEDS	11		25		15	

**a** From rating curve extended above 2,600 ft<sup>3</sup>/s.

**b** From peak-stage indicator.

