

## SHERMAN CREEK BASIN

## 01568000 SHERMAN CREEK AT SHERMANS DALE, PA

**LOCATION.**--Lat 40°19'24", long 77°10'09", Perry County, Hydrologic Unit 02050305, on left bank on downstream side of bridge on State Highway 34 at Shermans Dale, and 1.2 mi upstream from Fishing Run.

**DRAINAGE AREA.**--207 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1929 to current year. Prior to October 1962, published as "*at Shermandale*".

**REVISED RECORDS.**--WSP 1302: 1930(M). WSP 1502: 1933, 1934(M), 1935-36. WDR PA-97-2: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 422.63 ft above sea level. Prior to Jan. 29, 1930, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of July 22, 1927, reached a stage of 20.34 ft, from floodmark, discharge, about 44,000 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 3,000 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	0230	*2,610	*5.77	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	951	102	293	170	e130	792	320	363	209	100	168	71
2	515	113	260	160	e120	671	301	362	188	91	183	207
3	359	482	240	161	e110	541	298	325	168	87	136	132
4	369	226	223	163	e110	466	800	294	153	94	122	86
5	704	171	206	162	e110	413	581	281	152	90	101	77
6	400	154	203	142	e100	360	469	274	518	79	96	62
7	306	143	189	133	e100	321	415	246	381	73	146	56
8	252	134	167	128	e100	302	418	226	247	67	121	54
9	225	128	157	124	e95	283	784	217	206	63	94	53
10	518	125	161	185	e95	264	566	204	183	70	81	53
11	512	121	181	318	e110	328	491	186	174	77	73	52
12	331	112	154	216	e200	1480	455	176	173	63	66	57
13	276	108	149	186	e250	838	399	180	178	58	62	65
14	384	108	696	156	e600	626	365	184	214	59	61	57
15	289	104	1170	e140	e1100	519	345	153	220	235	59	51
16	234	100	619	e130	623	450	331	143	219	286	58	47
17	216	97	461	e130	581	636	403	140	263	305	54	46
18	201	93	374	e120	441	472	779	135	216	158	53	45
19	176	91	318	e110	423	409	999	218	186	109	55	53
20	188	91	316	e140	383	387	719	327	164	102	53	88
21	194	96	481	e130	361	815	865	256	179	92	48	71
22	166	94	346	e120	398	2090	1230	240	493	94	45	51
23	160	90	305	e110	490	1180	1270	416	250	79	45	46
24	147	89	282	e110	589	868	929	633	181	71	50	47
25	134	121	e240	e120	732	712	751	437	154	74	48	55
26	126	534	e230	e130	852	615	638	312	204	72	45	164
27	120	1430	e240	e130	678	535	567	264	154	69	43	129
28	114	651	225	e120	1690	504	521	275	163	71	98	82
29	110	444	206	e120	1030	438	454	367	136	270	94	66
30	107	349	191	e120	---	387	403	283	115	152	60	57
31	104	---	181	e140	---	348	---	229	---	189	54	---
TOTAL	8888	6701	9464	4524	12601	19050	17866	8346	6441	3499	2472	2180
MEAN	287	223	305	146	435	615	596	269	215	113	79.7	72.7
MAX	951	1430	1170	318	1690	2090	1270	633	518	305	183	207
MIN	104	89	149	110	95	264	298	135	115	58	43	45
CFSM	1.39	1.08	1.47	.71	2.10	2.97	2.88	1.30	1.04	.55	.39	.35
IN.	1.60	1.20	1.70	.81	2.26	3.42	3.21	1.50	1.16	.63	.44	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	147	250	314	324	408	611	545	394	209	117	99.4	101
MAX	905	924	968	1144	1253	1941	1675	1196	1969	1187	777	954
(WY)	1977	1971	1997	1996	1984	1936	1993	1978	1972	1989	1933	1996
MIN	18.5	22.1	22.7	22.0	54.2	133	161	88.8	48.4	18.9	18.1	18.6
(WY)	1964	1931	1931	1981	1931	1931	1997	1941	1965	1966	1930	1930

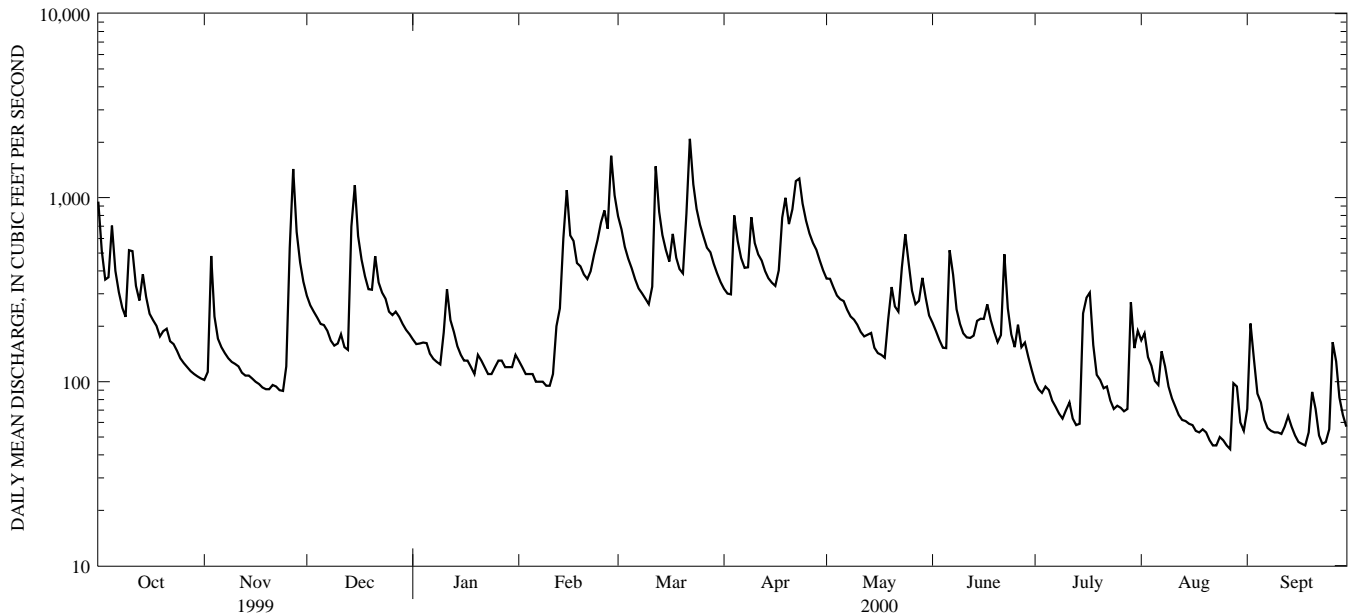
e Estimated.

SHERMAN CREEK BASIN

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	83172		102032			
ANNUAL MEAN	228		279		293	
HIGHEST ANNUAL MEAN					544	1972
LOWEST ANNUAL MEAN					122	1931
HIGHEST DAILY MEAN	3430	Sep 30	2090	Mar 22	18300	Jun 23 1972
LOWEST DAILY MEAN	14	Aug 12	43	Aug 27	10	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	16	Aug 6	46	Aug 21	11	Dec 19 1930
INSTANTANEOUS PEAK FLOW			2610	Mar 22	<sup>a</sup> 27500	Jun 23 1972
INSTANTANEOUS PEAK STAGE			5.77	Mar 22	18.09	Jun 23 1972
INSTANTANEOUS LOW FLOW			42	Aug 27	3.9	Dec 1 1930
ANNUAL RUNOFF (CFSM)	1.10		1.35		1.41	
ANNUAL RUNOFF (INCHES)	14.95		18.34		19.21	
10 PERCENT EXCEEDS	481		620		653	
50 PERCENT EXCEEDS	149		181		143	
90 PERCENT EXCEEDS	28		62		31	

a From rating curve extended above 18,000 ft<sup>3</sup>/s.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000