

## 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)
Jan. 24	1400	*6,100	*8.91	Sept. 30	1015	5,440	8.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	40	42	e24	186	e145	249	204	70	37	19	47
2	26	40	41	e23	311	e130	267	190	68	43	20	42
3	26	40	37	e70	331	e120	232	179	82	60	19	39
4	39	40	37	e100	250	1110	213	175	81	53	18	36
5	49	40	36	e75	224	588	206	165	67	38	18	37
6	54	40	35	e50	198	465	188	157	62	31	17	72
7	45	40	33	e45	188	425	178	156	59	28	16	309
8	75	40	35	e40	201	312	168	488	56	25	17	180
9	173	41	39	e100	209	291	351	435	52	25	17	97
10	165	44	40	e85	195	279	1180	301	e51	28	16	79
11	90	53	41	e75	174	262	749	254	51	29	15	66
12	60	54	40	e70	175	255	724	225	52	27	14	54
13	49	49	37	e90	221	255	545	215	50	26	19	47
14	45	48	35	e130	183	269	456	207	50	26	207	44
15	43	47	35	e90	160	288	402	177	58	24	106	44
16	40	45	34	e80	157	316	421	160	58	23	49	417
17	38	43	32	e75	163	504	354	150	63	22	34	792
18	37	42	25	e290	172	827	304	142	121	23	27	247
19	36	41	29	e700	155	753	270	135	78	27	24	155
20	36	43	30	e400	141	553	304	125	56	27	32	118
21	36	47	30	e330	129	642	332	116	50	25	161	114
22	36	43	34	e350	e110	1260	403	111	48	62	70	132
23	36	42	30	e500	e105	762	420	122	45	47	42	100
24	36	41	28	e3000	e100	607	401	139	42	29	39	81
25	37	40	27	1410	e100	513	341	134	39	26	31	71
26	37	45	e26	669	e105	427	315	111	37	24	40	65
27	37	54	e25	479	e100	370	292	99	36	22	888	60
28	39	40	e25	396	e110	334	262	91	52	21	228	105
29	40	40	e25	360	---	303	239	84	56	19	108	231
30	e40	45	e24	270	---	267	219	78	40	18	71	3430
31	40	---	e24	221	---	242	---	74	---	18	55	---
TOTAL	1567	1307	1011	10597	4853	13874	10985	5399	1730	933	2437	7311
MEAN	50.5	43.6	32.6	342	173	448	366	174	57.7	30.1	78.6	244
MAX	173	54	42	3000	331	1260	1180	488	121	62	888	3430
MIN	26	40	24	23	100	120	168	74	36	18	14	36
CFSM	.24	.21	.16	1.65	.84	2.16	1.77	.84	.28	.15	.38	1.18
IN.	.28	.23	.18	1.90	.87	2.49	1.97	.97	.31	.17	.44	1.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1999, BY WATER YEAR (WY)

MEAN	145	250	314	327	408	611	545	396	209	118	99.7	102
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

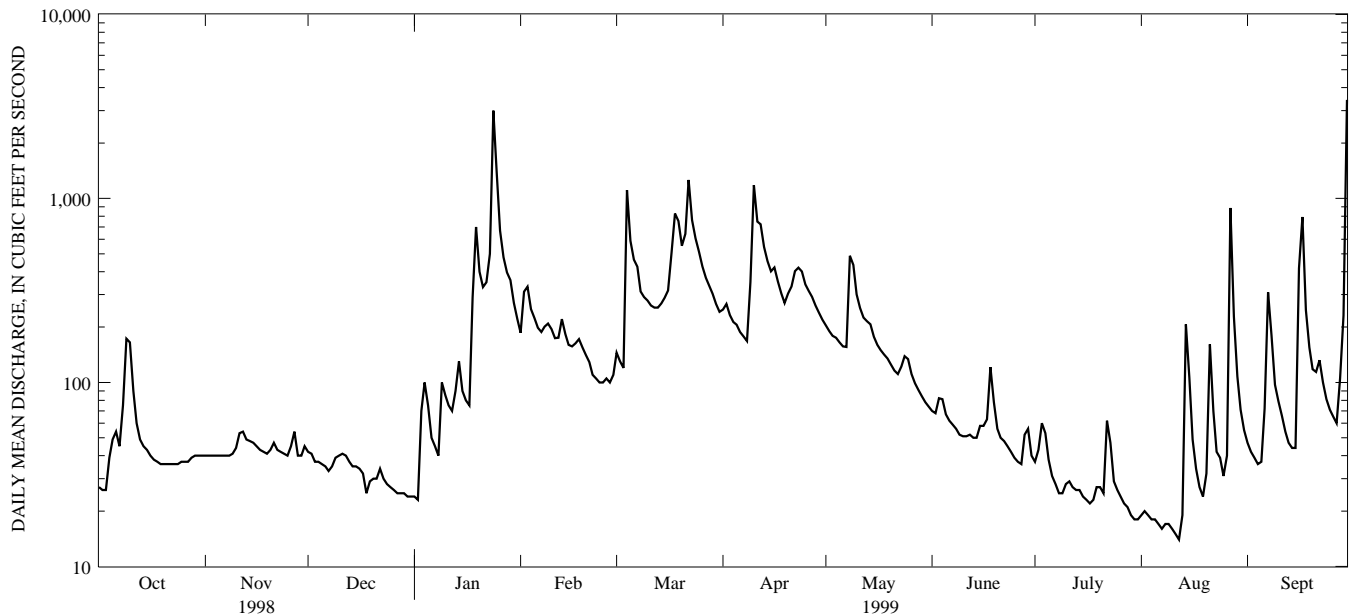
e Estimated.

SHERMAN CREEK BASIN

01568000 SHERMAN CREEK AT SHERMANS DALE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1930 - 1999	
ANNUAL TOTAL	159780		62004			
ANNUAL MEAN	438		170		293	
HIGHEST ANNUAL MEAN					544	
LOWEST ANNUAL MEAN					122	
HIGHEST DAILY MEAN	4750	Jan 9	3430	Sep 30	18300	Jun 23 1972
LOWEST DAILY MEAN	e24	Dec 30	14	Aug 12	10	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	a25	Dec 25	16	Aug 6	11	Dec 19 1930
INSTANTANEOUS PEAK FLOW			6100	Jan 24	b27500	Jun 23 1972
INSTANTANEOUS PEAK STAGE			8.91	Jan 24	18.09	Jun 23 1972
INSTANTANEOUS LOW FLOW			c3.5	Dec 30	3.9	Dec 1 1930
ANNUAL RUNOFF (CFSM)	2.11		.82		1.41	
ANNUAL RUNOFF (INCHES)	28.71		11.14		19.22	
10 PERCENT EXCEEDS	1120		400		654	
50 PERCENT EXCEEDS	108		67		141	
90 PERCENT EXCEEDS	37		26		31	

- a Computed using estimated daily discharges.
- b From rating curve extended above 18,000 ft<sup>3</sup>/s.
- c Result of freeze-up.
- e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999