

**OIL CREEK BASIN**

**03020500 OIL CREEK AT ROUSEVILLE, PA**

**LOCATION.**--Lat 41°28'54", long 79°41'44", Venango County, Hydrologic Unit 05010003, on right bank 100 ft downstream from bridge on State Highway 8, about 300 ft upstream from Cherrytree Run, and 1 mi north of Rouseville. Records include flow of Cherrytree Run.

**DRAINAGE AREA.**--300 mi<sup>2</sup>, including that of Cherrytree Run.

**PERIOD OF RECORD.**--June 1932 to current year.

**REVISED RECORDS.**--WSP 743: Drainage area. WSP 1053: 1936-37(M), 1943(M).

**GAGE.**--Water-stage recorder. Datum of gage is 1,028.32 ft above sea level. Prior to June 9, 1941, 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. U.S. Army Corps of Engineers satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 5,000 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	1000	*6,500	*7.95	No other peak greater than base discharge.			

**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	28	43	60	e110	486	893	560	349	200	88	58	42
2	29	42	63	e120	1030	575	743	314	222	93	48	39
3	30	42	62	e135	2040	986	587	290	248	82	39	36
4	41	42	60	e155	1370	2080	554	276	216	70	36	34
5	44	42	61	e150	1100	992	664	264	180	63	53	31
6	41	42	64	e145	825	812	543	252	157	58	51	30
7	40	44	65	e135	719	600	445	246	143	438	39	36
8	255	45	62	e130	648	484	383	286	131	228	39	34
9	189	46	59	e125	541	539	825	322	121	130	38	36
10	98	75	56	e115	646	471	2030	323	113	156	36	37
11	67	191	55	e120	578	376	1300	270	110	126	34	35
12	55	140	53	e135	1170	365	1420	247	107	90	33	32
13	49	112	50	e160	1370	316	940	230	94	74	36	30
14	45	86	53	e180	829	316	700	216	102	69	46	32
15	43	74	56	e200	643	296	573	198	111	62	71	32
16	50	66	64	e230	602	292	575	183	107	56	49	32
17	50	64	55	e260	734	419	1020	171	95	52	41	32
18	47	61	63	e500	838	1740	1520	175	92	63	36	29
19	58	59	61	e1050	621	1230	1150	681	85	52	33	27
20	56	62	73	e1100	481	775	1040	439	79	52	33	27
21	53	72	112	e720	390	736	786	279	75	48	41	35
22	48	71	1650	e620	328	790	888	228	74	57	49	36
23	46	66	642	e1500	344	665	1110	273	71	55	40	34
24	44	62	e280	5960	352	678	1440	580	69	47	39	32
25	43	58	e250	3520	282	689	908	1440	71	43	56	32
26	43	63	e200	1420	251	561	714	878	69	42	135	30
27	44	65	e175	878	224	513	596	573	67	38	221	29
28	45	63	e160	914	484	519	499	414	79	36	140	29
29	45	59	e140	895	---	533	438	313	115	42	82	36
30	43	58	e125	658	---	514	378	256	118	44	59	185
31	43	---	e115	493	---	474	---	222	---	43	49	---
TOTAL	1812	2015	5044	22833	19926	21229	25329	11188	3521	2597	1760	1141
MEAN	58.5	67.2	163	737	712	685	844	361	117	83.8	56.8	38.0
MAX	255	191	1650	5960	2040	2080	2030	1440	248	438	221	185
MIN	28	42	50	110	224	292	378	171	67	36	33	27
CFSM	.19	.22	.54	2.46	2.37	2.28	2.81	1.20	.39	.28	.19	.13
IN.	.22	.25	.63	2.83	2.47	2.63	3.14	1.39	.44	.32	.22	.14

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1999, BY WATER YEAR (WY)**

MEAN	259	515	683	692	736	1106	935	589	385	226	172	202
MAX	1260	1560	1784	2385	2124	2574	1958	1706	1491	896	786	1304
(WY)	1991	1986	1978	1937	1976	1936	1940	1953	1989	1987	1980	1990
MIN	34.5	65.0	80.9	108	158	407	266	129	75.2	38.3	38.8	34.5
(WY)	1964	1992	1961	1984	1987	1969	1935	1934	1934	1934	1934	1934

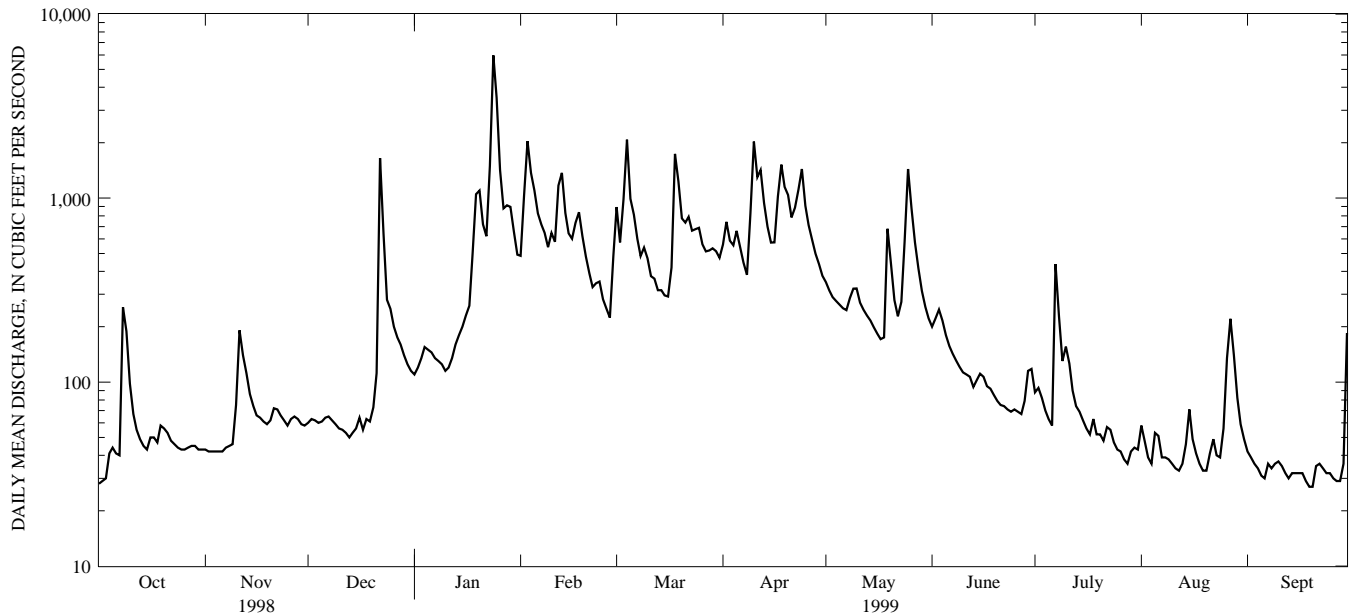
e Estimated.

OIL CREEK BASIN

03020500 OIL CREEK AT ROUSEVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR		WATER YEARS 1933 - 1999		
ANNUAL TOTAL	146928			118395				
ANNUAL MEAN	403			324		541		
HIGHEST ANNUAL MEAN						746	1956	
LOWEST ANNUAL MEAN						303	1962	
HIGHEST DAILY MEAN	7550	Jan	9	5960	Jan	24	16300	Jan 22 1959
LOWEST DAILY MEAN	28	Oct	1	27	Sep	19,20	23	Jul 26 1934
ANNUAL SEVEN-DAY MINIMUM	30	Sep	20	30	Sep	14	24	Sep 2 1934
INSTANTANEOUS PEAK FLOW				6500	Jan	24	<b>a</b> 21000	Jan 22 1959
INSTANTANEOUS PEAK STAGE				7.95	Jan	24	11.97	Jan 22 1959
INSTANTANEOUS LOW FLOW				25	Sep	20	<b>b</b> 16	Oct 12 1993
ANNUAL RUNOFF (CFSM)	1.34			1.08		1.80		
ANNUAL RUNOFF (INCHES)	18.22			14.68		24.48		
10 PERCENT EXCEEDS	972			854		1240		
50 PERCENT EXCEEDS	122			115		294		
90 PERCENT EXCEEDS	39			36		62		

**a** From rating curve extended above 15,000 ft<sup>3</sup>/s.  
**b** Result of upstream pumping.



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