

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 mi², 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Apr. 8	2000	*5,120	*7.19	No other peak greater than 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	153	67	237	e220	e205	759	269	251	248	241	339	64
2	83	217	229	e220	e202	868	262	441	279	212	406	63
3	58	2920	206	e430	e200	683	525	366	498	198	1100	61
4	48	1390	236	3220	e200	571	2470	292	298	392	747	61
5	46	617	298	2130	e200	506	2000	281	235	334	290	56
6	44	430	549	972	e200	435	1050	266	473	221	322	53
7	43	320	536	698	e200	386	777	246	485	179	853	52
8	40	245	374	562	e200	357	3110	235	314	155	490	51
9	55	209	296	484	e200	333	3700	227	238	144	296	53
10	59	182	425	487	e200	317	1580	290	197	253	316	54
11	60	167	854	765	e330	290	1080	326	183	223	230	61
12	50	149	509	761	e540	381	887	261	385	167	203	105
13	50	135	400	578	628	397	716	246	576	135	169	110
14	207	126	1010	442	559	356	599	239	382	125	153	85
15	201	119	2270	e370	796	331	518	208	405	127	135	87
16	124	115	1180	e300	637	316	467	187	456	131	121	135
17	97	110	790	e240	530	633	420	177	815	140	110	137
18	98	103	576	e235	474	480	400	199	680	132	108	93
19	92	98	455	e235	441	394	364	3670	1100	112	104	80
20	82	110	451	e230	393	365	347	2610	527	102	98	70
21	72	129	663	e230	364	341	776	932	560	97	86	119
22	68	130	471	e228	369	317	1060	650	923	92	81	114
23	67	118	390	e225	658	298	742	531	454	87	92	94
24	153	114	365	e224	1890	271	546	666	332	82	108	117
25	226	112	e340	e220	3560	267	457	795	348	80	97	124
26	149	267	e320	e220	2870	262	393	462	508	77	83	99
27	115	1160	e300	e218	1510	254	341	348	582	72	80	80
28	95	614	e280	e213	1360	280	324	305	465	93	76	71
29	84	376	e260	e211	882	282	290	278	331	153	74	64
30	77	292	e250	e210	---	368	262	250	283	122	71	60
31	70	---	e230	e210	---	314	---	221	---	365	67	---
TOTAL	2866	11141	15750	15988	20798	12412	26732	16456	13560	5043	7505	2473
MEAN	92.5	371	508	516	717	400	891	531	452	163	242	82.4
MAX	226	2920	2270	3220	3560	868	3700	3670	1100	392	1100	137
MIN	40	67	206	210	200	254	262	177	183	72	67	51
CFSM	.31	1.24	1.69	1.72	2.39	1.33	2.97	1.77	1.51	.54	.81	.27
IN.	.36	1.38	1.95	1.98	2.58	1.54	3.31	2.04	1.68	.63	.93	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

MEAN	256	513	681	689	736	1096	935	588	386	225	173	200
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	400	266	129	75.2	38.3	38.8	34.5
(WY)	1964	1992	1961	1984	1987	2000	1935	1934	1934	1934	1934	1934

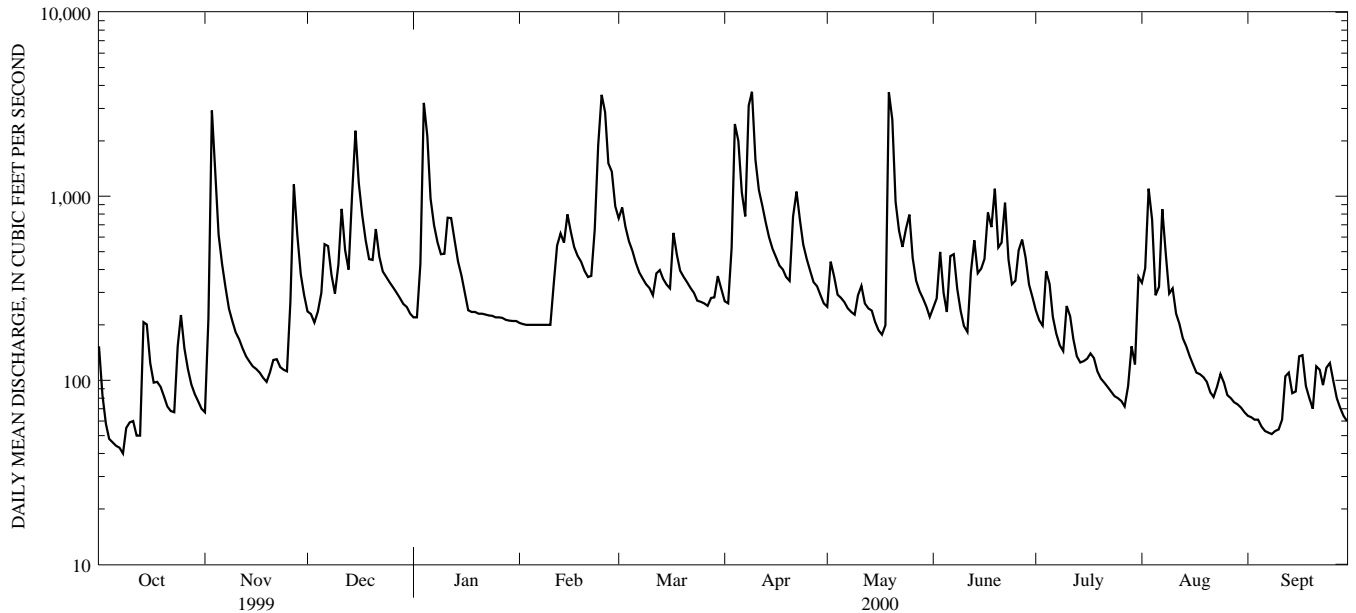
e Estimated.

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03020500 OIL CREEK AT ROUSEVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL TOTAL	139281		150724			
ANNUAL MEAN	382		412		539	
HIGHEST ANNUAL MEAN					746	1956
LOWEST ANNUAL MEAN					303	1962
HIGHEST DAILY MEAN	5960	Jan 24	3700	Apr 9	16300	Jan 22 1959
LOWEST DAILY MEAN	27	Sep 19,20	40	Oct 8	23	Jul 26 1934
ANNUAL SEVEN-DAY MINIMUM	30	Sep 14	48	Oct 3	24	Sep 2 1934
INSTANTANEOUS PEAK FLOW			5120	Apr 8	a 21000	Jan 22 1959
INSTANTANEOUS PEAK STAGE			7.19	Apr 8	11.97	Jan 22 1959
INSTANTANEOUS LOW FLOW			38	Oct 8	b 16	Oct 12 1993
ANNUAL RUNOFF (CFSM)	1.27		1.37		1.80	
ANNUAL RUNOFF (INCHES)	17.27		18.69		24.40	
10 PERCENT EXCEEDS	900		792		1230	
50 PERCENT EXCEEDS	207		262		293	
90 PERCENT EXCEEDS	38		77		62	

a From rating curve extended above 15,000 ft³/s.
b Result of upstream pumping.



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