

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)
Feb. 10	0900	*4,790	*6.99	(No peaks above base discharge.)			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	69	468	e280	873	339	737	276	220	139	46	86
2	57	68	376	e270	608	341	625	261	989	147	44	75
3	56	67	276	e260	431	308	561	250	687	105	47	51
4	69	71	279	e255	441	295	537	234	478	100	69	42
5	181	72	264	e250	416	300	472	218	425	118	67	39
6	690	74	217	e245	385	245	520	200	307	112	51	35
7	419	73	228	e240	365	289	719	187	263	99	44	33
8	257	71	215	e240	340	259	598	183	228	95	40	32
9	314	113	207	e235	1150	245	606	211	196	89	37	30
10	398	185	234	e235	4260	236	632	204	176	80	36	29
11	432	244	217	e230	2320	222	552	191	250	86	33	27
12	251	228	1030	e230	963	222	483	478	281	79	30	26
13	184	170	831	e230	817	715	405	445	195	68	30	30
14	152	144	565	e225	1050	1660	354	296	161	64	32	54
15	133	135	467	e225	2590	1070	337	247	141	61	32	45
16	122	129	470	e255	1440	928	1120	219	130	59	30	35
17	117	124	3280	e250	958	1080	1070	192	146	60	33	33
18	114	134	2500	e230	692	934	896	182	129	60	33	31
19	112	136	1010	e220	600	755	684	177	112	58	33	29
20	105	130	699	e215	580	724	593	162	102	61	37	35
21	95	123	e600	e210	641	765	918	174	145	68	40	37
22	87	98	e500	e205	445	1450	1130	515	1090	59	37	40
23	84	124	e420	e205	471	1070	832	815	494	51	45	56
24	86	152	e360	e200	420	831	683	468	336	48	67	51
25	94	162	e350	e200	448	693	559	359	241	47	46	63
26	99	352	e340	e200	738	602	467	531	184	74	44	60
27	94	1140	e320	e195	514	531	419	426	153	91	70	57
28	88	1100	e310	e195	407	486	374	386	135	62	67	75
29	81	697	e300	e190	---	551	333	359	120	52	50	77
30	81	544	e295	e340	---	824	301	306	111	49	43	59
31	72	---	e280	e700	---	1050	---	250	---	49	45	---
TOTAL	5181	6929	17908	7660	25363	20020	18517	9402	8625	2390	1358	1372
MEAN	167	231	578	247	906	646	617	303	288	77.1	43.8	45.7
MAX	690	1140	3280	700	4260	1660	1130	815	1090	147	70	86
MIN	56	67	207	190	340	222	301	162	102	47	30	26
CFSM	.56	.77	1.93	.82	3.02	2.15	2.06	1.01	.96	.26	.15	.15
IN.	.64	.86	2.22	.95	3.15	2.48	2.30	1.17	1.07	.30	.17	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

MEAN	255	508	679	683	738	1090	930	584	384	223	171	198
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1933 - 2001	
ANNUAL TOTAL	150985		124725			
ANNUAL MEAN	413		342		536	
HIGHEST ANNUAL MEAN					746	1956
LOWEST ANNUAL MEAN					303	1962
HIGHEST DAILY MEAN	3700	Apr 9	4260	Feb 10	16300	Jan 22 1959
LOWEST DAILY MEAN	51	Sep 8	26	Sep 12	23	Jul 26 1934
ANNUAL SEVEN-DAY MINIMUM	54	Sep 4	30	Sep 7	24	Sep 2 1934
MAXIMUM PEAK FLOW			4790	Feb 10	a 21000	Jan 22 1959
MAXIMUM PEAK STAGE			6.99	Feb 10	11.97	Jan 22 1959
INSTANTANEOUS LOW FLOW			b 19	Nov 22	b 16	Oct 12 1993
ANNUAL RUNOFF (CFSM)	1.38		1.14		1.79	
ANNUAL RUNOFF (INCHES)	18.72		15.47		24.27	
10 PERCENT EXCEEDS	782		785		1220	
50 PERCENT EXCEEDS	262		220		290	
90 PERCENT EXCEEDS	80		45		62	

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

