

OIL CREEK BASIN

03020500 OIL CREEK AT ROUSEVILLE, PA
(Pennsylvania Water-Quality Network Station)

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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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)
May 13	1900	*6,080	*7.72	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	163	989	e278	3070	349	1020	749	309	108	154	38
2	44	148	548	e251	2220	347	819	1140	266	103	114	37
3	40	159	376	e244	1060	872	1970	1060	230	96	94	41
4	37	185	299	e237	782	862	1780	707	218	89	77	54
5	35	151	261	e224	589	470	1000	571	229	82	70	46
6	40	162	239	e210	529	500	828	492	1700	75	68	42
7	43	160	221	e203	466	471	709	450	831	73	62	38
8	58	134	205	e210	437	432	616	418	483	72	57	34
9	49	136	195	e203	413	390	718	524	356	74	54	34
10	45	137	181	e230	398	497	937	605	290	123	52	33
11	41	128	166	266	775	452	687	457	258	85	50	30
12	41	119	155	286	640	410	559	1730	236	71	48	29
13	42	102	166	290	504	405	843	5230	226	66	49	28
14	46	95	228	335	373	370	1850	5520	381	64	51	29
15	66	90	440	269	410	336	2830	2890	419	62	60	79
16	76	87	356	304	399	554	1590	1380	432	60	65	220
17	111	82	465	282	424	552	1040	1790	468	57	100	122
18	178	78	2440	258	332	446	798	1870	302	55	88	74
19	117	60	1350	244	332	416	705	1410	235	55	66	58
20	87	185	784	274	369	537	690	954	198	53	61	51
21	70	253	628	302	568	954	709	772	170	51	52	48
22	103	188	516	258	579	696	585	659	153	43	62	43
23	232	152	669	253	448	580	519	563	143	86	103	41
24	290	134	1930	610	372	608	451	491	136	114	115	40
25	295	584	937	1260	357	664	433	432	130	72	83	39
26	238	687	604	695	373	870	452	669	150	70	65	38
27	259	367	470	542	466	2290	385	616	179	81	56	95
28	365	275	415	506	387	1300	774	418	190	85	52	265
29	271	509	356	504	---	1170	1610	359	150	789	48	145
30	225	808	295	1180	---	2540	1010	348	121	570	44	90
31	204	---	e288	1710	---	1530	---	353	---	252	41	---
TOTAL	3797	6518	17172	12918	18072	22870	28917	35627	9589	3736	2161	1961
MEAN	122	217	554	417	645	738	964	1149	320	121	69.7	65.4
MAX	365	808	2440	1710	3070	2540	2830	5520	1700	789	154	265
MIN	35	60	155	203	332	336	385	348	121	43	41	28
CFSM	0.41	0.72	1.85	1.39	2.15	2.46	3.21	3.83	1.07	0.40	0.23	0.22
IN.	0.47	0.81	2.13	1.60	2.24	2.84	3.59	4.42	1.19	0.46	0.27	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY)

MEAN	253	504	677	679	737	1084	931	592	383	221	170	196
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

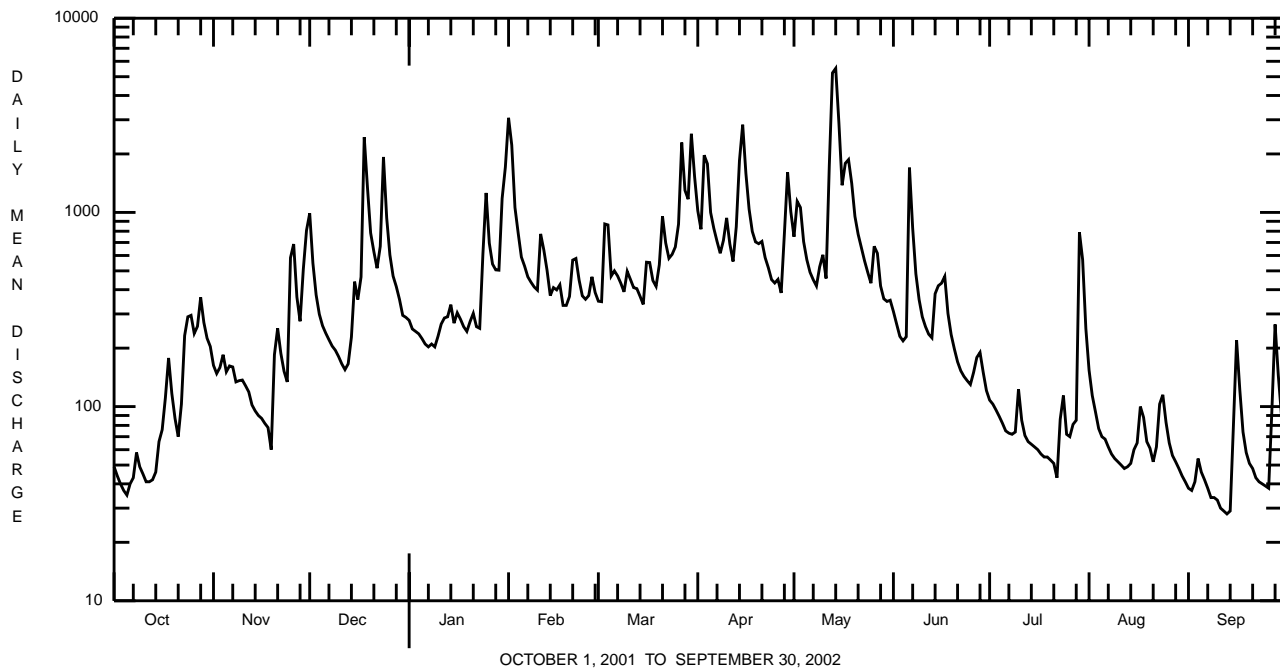
e Estimated.

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03020500 OIL CREEK AT ROUSEVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1933 - 2002	
ANNUAL TOTAL	122194		163338			
ANNUAL MEAN	335		448		535	
HIGHEST ANNUAL MEAN					746	1956
LOWEST ANNUAL MEAN					303	1962
HIGHEST DAILY MEAN	4260	Feb 10	5520	May 14	16300	Jan 22 1959
LOWEST DAILY MEAN	26	Sep 12	28	Sep 13	23	Jul 26 1934
ANNUAL SEVEN-DAY MINIMUM	30	Sep 7	31	Sep 8	24	Sep 2 1934
MAXIMUM PEAK FLOW			6080	May 13	a 21000	Jan 22 1959
MAXIMUM PEAK STAGE			7.72	May 13	11.97	Jan 22 1959
INSTANTANEOUS LOW FLOW			b 17	Jul 22	b 16	Oct 12 1993
ANNUAL RUNOFF (CFSM)	1.12		1.49		1.78	
ANNUAL RUNOFF (INCHES)	15.15		20.25		24.21	
10 PERCENT EXCEEDS	773		968		1210	
50 PERCENT EXCEEDS	219		266		290	
90 PERCENT EXCEEDS	41		49		61	

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



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03020500 OIL CREEK AT ROUSEVILLE, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 210-233.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	
APR 2002	24...	0945	9813	456	40	8.8	7.2	149	6.9	54	15.9	3.6	40	<.2
JUN	12...	0830	9813	237	40	6.8	7.4	215	21.3	69	20.2	4.4	56	<.2
AUG	14...	0900	9813	52	40	8.2	7.8	269	23.6	110	34.1	6.6	94	<.2

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	CYANIDE AMEN-ABLE TO CHLOR-INATION UNFLTRD (MG/L) (00722)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	
APR 2002	24...	11.5	124	<2	<.020	.31	<.040	.50	.01	.020	2.5	<10	<1.00	350
JUN	12...	10.8	102	6	<.020	<.04	<.040	.54	.01	.020	3.2	<10	<1.00	310
AUG	14...	12.7	164	8	<.020	<.04	<.040	.24	.02	.040	2.8	<10	<1.00	240

Date	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)	
APR 2002	24...	<1.0	20	<50	<10	<5
JUN	12...	<1.0	30	<50	<10	<5
AUG	14...	<1.0	30	<50	<10	<5