

## OHIO RIVER MAIN STEM

03010500 ALLEGHENY RIVER AT ELDRED, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 41°57'48", long 78°23'11", McKean County, Hydrologic Unit 05010001, on right bank at site of former highway bridge, 600 ft upstream from bridge on State Highway 346, 1,000 ft upstream from Knapp Creek, 0.5 mi north of Eldred, at mile 267.8.

**DRAINAGE AREA.**--550 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--July 1939 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,416.53 ft above National Geodetic Vertical Datum of 1929.

**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)
May 15	2400	*6,030	*13.91	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	177	455	1790	e476	3480	759	2820	1970	1210	432	266	57
2	159	423	1580	e427	3850	724	2370	2030	1000	385	206	53
3	147	477	1410	e403	3510	994	2290	2120	849	344	168	51
4	135	501	1230	e373	2740	1360	2080	1710	756	306	159	51
5	124	429	1080	e361	2060	1030	1670	1520	1530	273	170	50
6	118	397	945	e337	1620	1180	1510	1330	3530	239	315	47
7	118	372	839	e325	1350	1120	1390	1200	4470	216	223	43
8	122	354	745	e313	1180	1020	1270	1080	4680	203	180	40
9	120	354	701	e307	1020	927	1250	1230	3770	188	155	38
10	113	350	655	e301	914	1040	1480	2080	2230	206	139	36
11	108	324	584	e295	1680	988	1240	1660	1540	212	123	33
12	103	301	528	e301	1580	902	1120	2180	1190	171	113	32
13	102	278	507	e289	1350	874	1190	3950	998	155	106	29
14	106	262	608	e289	1140	838	2050	4780	1650	147	99	27
15	145	252	1170	e289	1150	786	3440	5760	3400	140	96	41
16	268	244	987	e289	1110	838	3840	5790	3630	130	99	124
17	323	236	1090	e283	1060	823	3540	4920	3480	121	108	119
18	529	222	2760	e283	923	761	2670	4190	2770	115	135	82
19	378	213	3190	e294	822	804	2030	4030	2020	110	108	61
20	314	240	2740	e289	789	834	1740	3640	1520	109	98	57
21	281	294	2270	e295	902	1110	1480	2880	1190	108	90	79
22	292	254	1820	e298	1050	1060	1260	2240	985	99	80	65
23	292	232	1520	347	908	1030	1130	1790	1520	97	87	55
24	632	221	1610	508	830	1070	960	1470	1050	133	142	49
25	944	456	1360	1310	806	1060	859	1240	835	128	105	44
26	726	1440	1100	1230	811	1170	838	1340	715	103	92	40
27	665	1040	977	1170	945	2800	726	1210	682	100	79	67
28	718	935	e868	1150	849	2630	1040	946	812	506	71	528
29	603	1010	e769	1190	---	2520	2470	883	636	1250	67	307
30	543	1200	e646	1870	---	3080	2160	1590	500	492	64	152
31	501	---	e552	2440	---	3210	---	1370	---	296	61	---
TOTAL	9906	13766	38631	18332	40429	39342	53913	74129	55148	7514	4004	2457
MEAN	320	459	1246	591	1444	1269	1797	2391	1838	242	129	81.9
MAX	944	1440	3190	2440	3850	3210	3840	5790	4680	1250	315	528
MIN	102	213	507	283	789	724	726	883	500	97	61	27
CFSM	0.58	0.83	2.27	1.08	2.63	2.31	3.27	4.35	3.34	0.44	0.23	0.15
IN.	0.67	0.93	2.61	1.24	2.73	2.66	3.65	5.01	3.73	0.51	0.27	0.17

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	448	814	1067	1036	1112	1856	2053	1189	788	412	246	310
MAX	1894	3175	2390	3359	3250	4697	5314	3273	6490	3893	1699	2340
(WY)	1991	1951	1973	1952	1976	1945	1940	1943	1972	1942	1994	1977
MIN	41.6	62.0	55.1	87.3	213	728	385	292	109	57.8	43.4	34.6
(WY)	1965	1965	1961	1961	1980	1993	1946	1985	1991	1966	1957	1959

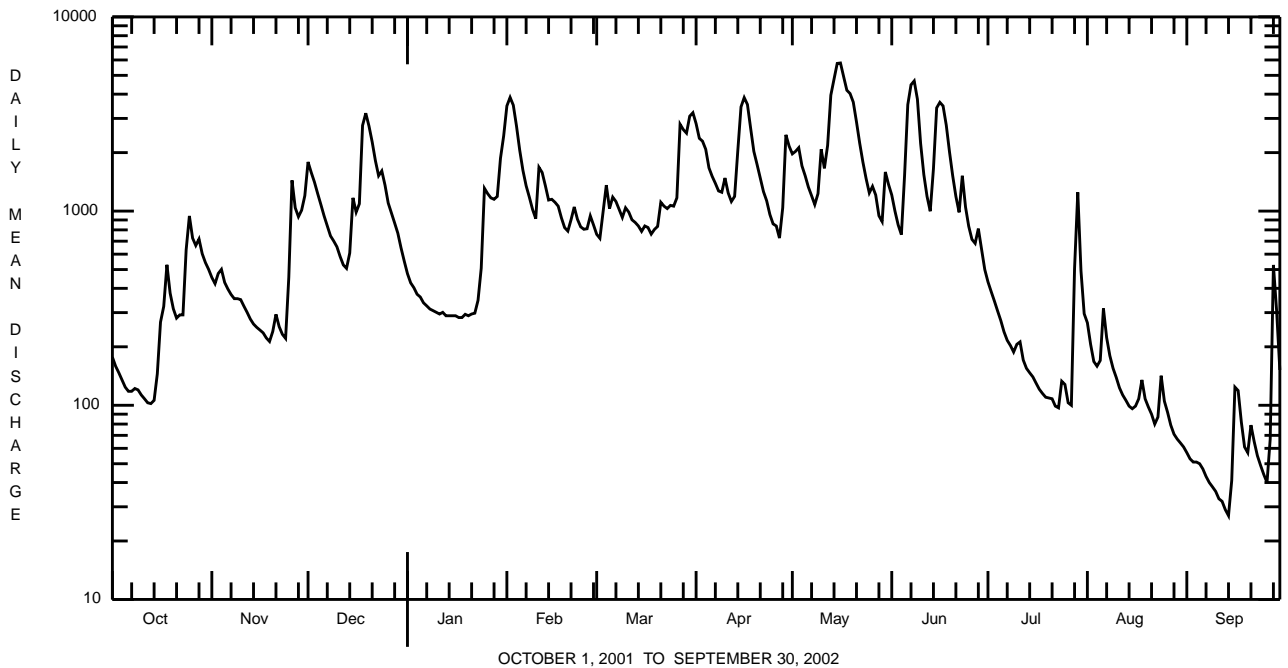
e Estimated.

OHIO RIVER MAIN STEM

03010500 ALLEGHENY RIVER AT ELDRED, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	249465		357571			
ANNUAL MEAN	683		980		942	
HIGHEST ANNUAL MEAN					1475	1972
LOWEST ANNUAL MEAN					631	1962
HIGHEST DAILY MEAN	5580	Apr 11	5790	May 16	55700	Jun 23 1972
LOWEST DAILY MEAN	39	Aug 16	27	Sep 14	16	Sep 6 1999
ANNUAL SEVEN-DAY MINIMUM	49	Aug 13	34	Sep 8	20	Sep 1 1999
MAXIMUM PEAK FLOW			6030	May 15	<b>a</b> 65400	Jun 23 1972
MAXIMUM PEAK STAGE			13.91	May 15	<b>b</b> 29.05	Jun 23 1972
INSTANTANEOUS LOW FLOW			26	Sep 14	15	Sep 6 1999
ANNUAL RUNOFF (CFSM)	1.24		1.78		1.71	
ANNUAL RUNOFF (INCHES)	16.87		24.18		23.28	
10 PERCENT EXCEEDS	1800		2400		2260	
50 PERCENT EXCEEDS	354		726		520	
90 PERCENT EXCEEDS	83		98		84	

**a** From rating curve extended above 21,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 27.6 ft.  
**b** From floodmark.



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03010500 ALLEGHENY RIVER AT ELDRED, 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 NUMBER (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER 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 CAC03) (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 CAC03) (00417)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	
APR 2002	18...	0815	9813	2790	40	8.7	7.0	58	15.1	21	5.8	1.6	12	9.2
JUN	26...	0815	9813	715	40	8.7	7.2	74	20.4	28	7.6	2.1	19	8.7
AUG	15...	0900	9813	96	40	6.5	7.4	129	23.7	43	11.8	3.2	36	8.5

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE 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)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	
APR 2002	18...	64	8	<.020	.43	<.040	.69	.04	.040	2.2	<10	460	<1.0	50
JUN	26...	58	10	<.020	.33	<.040	.51	.01	.030	1.8	<10	1550	<1.0	100
AUG	15...	82	8	.020	.19	<.040	.42	.02	.030	2.2	<10	610	<1.0	140

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	
APR 2002	18...	<50	<10
JUN	26...	<50	<10
AUG	15...	<50	<10