

MONONGAHELA RIVER BASIN

03074500 REDSTONE CREEK AT WALTERSBURG, PA

LOCATION.--Lat 39°58'48", long 79°45'52", Fayette County, Hydrologic Unit 05020005, on right bank, 15 ft upstream from highway bridge at Waltersburg, 400 ft upstream from Bolden Run, and 0.9 mi upstream from Allen Run.

DRAINAGE AREA.--73.7 mi².

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for October 1942, published in WSP 1305.

REVISED RECORDS.--WSP 1435: 1943-45 (M), 1946, 1947 (M), 1948 (P), 1949-50 (M), 1951 (P), 1952 (M).

GAGE.--Water-stage recorder. Datum of gage is 882.28 ft above sea level. Prior to Nov. 15, 1973, nonrecording gage 15 ft downstream and Nov. 15, 1973 to Sept. 30, 1997, at present site at datum 1.00 ft. higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage into stream above station. 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 1,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 6	1300	1,230	5.53	Apr. 9	2300	*2,260	*7.63

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	22	22	22	e21	87	123	83	87	46	24	38	15
2	27	21	22	e20	103	107	78	78	74	114	32	14
3	48	21	21	e23	96	206	70	72	59	61	23	14
4	28	21	21	e26	97	342	77	68	46	32	20	14
5	25	21	21	e24	91	241	70	63	40	26	20	17
6	24	21	21	e23	101	720	61	61	36	24	19	16
7	67	22	22	e22	201	495	56	57	34	22	18	16
8	42	22	40	e24	359	287	52	89	31	21	26	32
9	32	35	36	e280	223	234	825	59	30	20	26	18
10	29	28	26	e100	171	204	888	51	28	43	20	18
11	26	24	25	e72	142	169	479	46	27	29	19	16
12	26	24	24	e90	132	156	325	43	26	22	18	15
13	25	23	24	e200	118	149	229	41	25	20	17	15
14	24	23	23	e400	99	147	180	46	28	20	17	21
15	24	22	23	e375	93	170	151	39	31	19	18	17
16	24	22	22	e220	86	189	167	36	26	19	18	23
17	23	19	24	e190	82	284	133	35	26	18	18	30
18	23	19	24	e240	75	356	126	47	25	18	16	18
19	23	21	23	e230	71	269	111	195	24	18	15	17
20	22	26	23	e180	67	195	261	67	23	18	15	20
21	26	27	24	e210	63	201	218	56	22	17	15	36
22	22	23	73	e210	57	219	193	67	22	17	15	21
23	22	22	39	e190	54	171	342	88	20	18	15	e19
24	21	22	31	e300	55	144	319	163	20	25	20	e18
25	21	22	e25	310	56	125	226	148	20	19	30	17
26	21	30	e24	208	57	111	185	101	20	17	17	17
27	21	25	e24	159	55	100	153	83	30	16	16	17
28	21	23	e25	135	131	92	129	69	28	91	16	18
29	22	22	e25	117	---	88	110	60	57	95	15	19
30	21	22	e24	100	---	84	96	53	40	36	15	70
31	21	---	e21	86	---	80	---	48	---	26	15	---
TOTAL	823	695	822	4785	3022	6458	6393	2216	964	965	602	618
MEAN	26.5	23.2	26.5	154	108	208	213	71.5	32.1	31.1	19.4	20.6
MAX	67	35	73	400	359	720	888	195	74	114	38	70
MIN	21	19	21	20	54	80	52	35	20	16	15	14
CFSM	.36	.31	.36	2.09	1.46	2.83	2.89	.97	.44	.42	.26	.28
IN.	.42	.35	.41	2.42	1.53	3.26	3.23	1.12	.49	.49	.30	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1999, BY WATER YEAR (WY)

MEAN	49.7	69.7	114	134	158	194	162	126	80.0	55.7	49.4	48.2
MAX	225	459	308	284	376	470	310	274	413	187	172	161
(WY)	1980	1986	1973	1994	1986	1994	1948	1996	1972	1990	1980	1987
MIN	11.2	19.0	14.2	23.1	33.0	45.5	49.2	27.3	15.4	9.59	12.4	8.92
(WY)	1964	1967	1961	1967	1954	1969	1971	1963	1962	1962	1962	1991

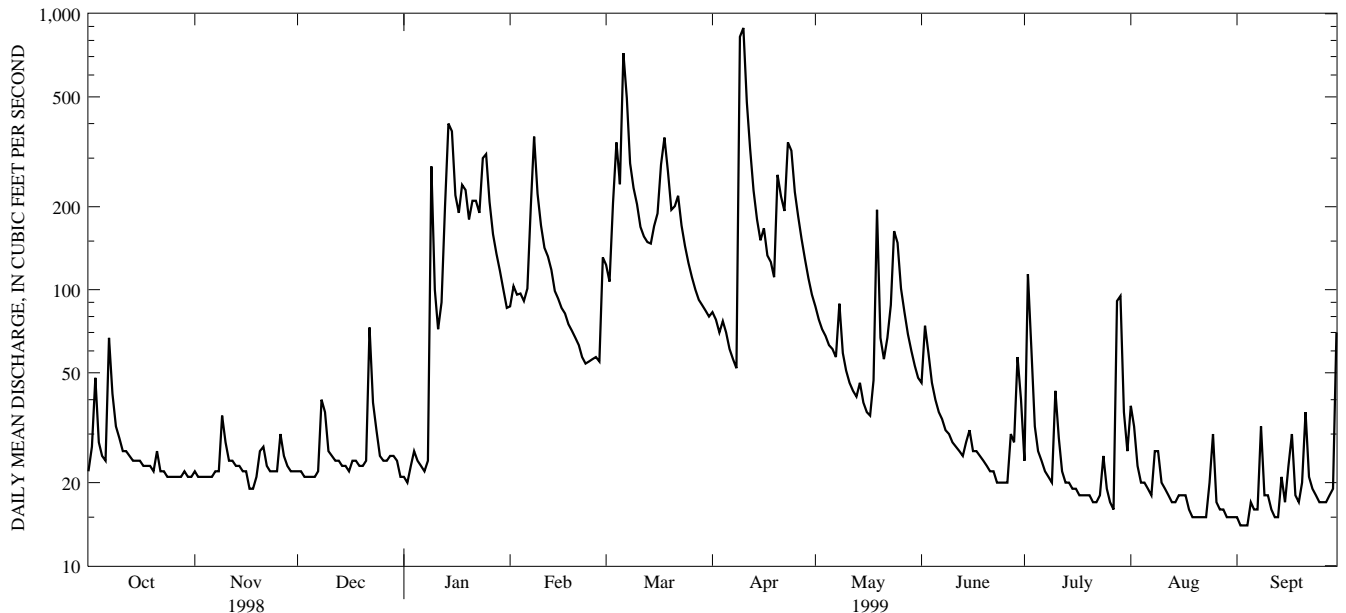
e Estimated.

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03074500 REDSTONE CREEK AT WALTERSBURG, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1943 - 1999	
ANNUAL TOTAL	30629			28363			103	
ANNUAL MEAN	83.9			77.7			166	
HIGHEST ANNUAL MEAN							44.2	
LOWEST ANNUAL MEAN							1954	
HIGHEST DAILY MEAN	831	Jan	8	888	Apr	10	6620	Jun 23 1972
LOWEST DAILY MEAN	e13	Aug	9-11	14	Sep	2-4	4.8	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	a14	Aug	5	15	Aug	29	5.3	Sep 28 1991
INSTANTANEOUS PEAK FLOW				2260	Apr	9	b8660	Jun 23 1972
INSTANTANEOUS PEAK STAGE				7.63	Apr	9	c14.83	Jun 23 1972
INSTANTANEOUS LOW FLOW				13	Sep	3	d4.2	Aug 2 1962
ANNUAL RUNOFF (CFSM)	1.14			1.05			1.40	
ANNUAL RUNOFF (INCHES)	15.46			14.32			19.01	
10 PERCENT EXCEEDS	203			201			211	
50 PERCENT EXCEEDS	39			29			62	
90 PERCENT EXCEEDS	21			18			21	

- a Computed using estimated daily discharges.
- b From rating curve extended above 8,200 ft³/s.
- c From peak-stage indicator.
- d Minimum observed.
- e Estimated.



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