

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929. 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 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)
Mar. 20	1600	1,310	5.73	Apr. 28	1130	1,010	4.98
Mar. 26	1830	*2,470	*8.05	May 18	0600	2,140	7.39

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	23	21	44	e30	107	52	181	208	92	35	22	14
2	22	22	38	e27	89	51	142	334	59	33	21	14
3	21	45	35	e27	79	79	134	221	53	33	19	14
4	20	27	33	e26	76	69	116	163	54	30	18	14
5	20	24	31	e24	67	64	104	135	65	48	28	14
6	36	23	31	e24	62	64	96	117	229	31	40	14
7	25	22	34	e23	61	62	87	165	143	28	20	14
8	21	22	40	e25	58	59	80	159	81	25	18	14
9	21	22	50	e27	53	58	80	395	63	32	18	15
10	20	22	41	e39	60	56	73	233	56	38	17	15
11	20	21	38	213	123	52	64	171	49	25	17	15
12	21	21	35	141	87	52	61	175	51	23	18	15
13	23	21	38	102	78	53	62	317	190	22	19	15
14	29	20	42	80	70	52	67	413	121	27	17	15
15	41	20	42	73	67	50	112	267	174	23	16	16
16	27	20	36	63	65	118	79	202	174	22	16	20
17	29	20	53	59	63	255	89	174	122	20	16	17
18	25	20	199	55	57	434	106	1160	95	34	15	17
19	24	21	107	52	54	254	91	437	75	50	20	28
20	24	29	81	51	54	791	91	295	63	40	19	16
21	23	24	65	50	84	506	130	227	57	26	16	15
22	23	22	57	49	64	287	182	182	51	22	15	15
23	23	21	55	47	60	213	139	150	47	125	16	19
24	32	21	63	135	57	169	116	131	44	65	57	15
25	27	69	e41	147	56	142	106	119	41	33	28	15
26	24	47	e37	112	66	924	88	100	38	43	18	21
27	23	82	e33	92	61	589	76	89	41	142	17	104
28	24	61	e30	80	55	313	491	78	78	57	16	49
29	23	48	e29	72	---	237	369	72	54	35	17	22
30	22	48	e27	101	---	189	238	65	40	28	15	18
31	21	---	e29	139	---	169	---	63	---	26	15	---
TOTAL	757	906	1514	2185	1933	6463	3850	7017	2500	1221	624	609
MEAN	24.4	30.2	48.8	70.5	69.0	208	128	226	83.3	39.4	20.1	20.3
MAX	41	82	199	213	123	924	491	1160	229	142	57	104
MIN	20	20	27	23	53	50	61	63	38	20	15	14
CFSM	0.33	0.41	0.66	0.96	0.94	2.83	1.74	3.07	1.13	0.53	0.27	0.28
IN.	0.38	0.46	0.76	1.10	0.98	3.26	1.94	3.54	1.26	0.62	0.31	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

MEAN	48.7	68.3	111	131	158	192	161	125	80.1	55.0	48.7	47.1
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.

MONONGAHELA RIVER BASIN

03074500 REDSTONE CREEK AT WALTERSBURG, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1943 - 2002	
ANNUAL TOTAL	23833		29579		102	
ANNUAL MEAN	65.3		81.0		166	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	529	Jan 30	1160	May 18	6620	Jun 23 1972
LOWEST DAILY MEAN	18	Aug 7 <sup>a</sup>	14	Sep 1-8	4.8	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	19	Aug 16	14	Sep 1	5.3	Sep 28 1991
MAXIMUM PEAK FLOW			2470	Mar 26	<sup>b</sup> 8660	Jun 23 1972
MAXIMUM PEAK STAGE			8.05	Mar 26	<sup>c</sup> 14.83	Jun 23 1972
INSTANTANEOUS LOW FLOW			12	Sep 4,8	4.2	Aug 2 1962
ANNUAL RUNOFF (CFSM)	0.89		1.10		1.38	
ANNUAL RUNOFF (INCHES)	12.03		14.93		18.78	
10 PERCENT EXCEEDS	132		174		209	
50 PERCENT EXCEEDS	40		49		61	
90 PERCENT EXCEEDS	20		17		21	

- a** Also Aug. 8, 9, 22, Sept. 18, 19, 23.
- b** From rating curve extended above 8,200 ft<sup>3</sup>/s.
- c** From peak-stage indicator.

