

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)
Jan. 30	1400	*999	*4.95	(No peaks above base discharge.)			
June 20	2300	999	4.95				

**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	26	27	69	e31	261	62	92	49	44	64	20	58
2	25	27	63	e30	184	60	103	46	68	65	19	26
3	24	27	55	e29	139	58	91	43	123	40	19	22
4	23	27	51	e28	117	78	84	40	76	40	26	21
5	28	26	52	e28	106	129	80	39	60	79	24	21
6	35	26	48	e28	96	98	136	36	284	74	19	20
7	27	26	48	e27	86	89	154	34	230	45	18	20
8	24	26	48	e27	77	89	130	34	157	99	18	20
9	25	28	46	e27	78	104	123	36	107	60	18	20
10	26	49	44	e27	96	91	123	32	78	68	25	23
11	24	41	46	e27	87	85	185	31	63	95	61	21
12	23	33	49	e26	78	80	165	42	55	53	33	20
13	24	31	36	e26	73	176	140	33	51	44	39	20
14	23	36	98	e26	96	235	123	28	78	39	25	31
15	22	32	75	e30	248	172	123	28	46	35	21	21
16	22	31	74	e40	386	276	150	29	118	32	20	19
17	30	31	141	e36	444	439	130	28	101	30	19	19
18	171	30	105	e33	240	281	122	28	58	31	19	18
19	60	29	89	e50	174	210	109	49	47	28	19	18
20	46	30	72	e90	143	168	105	30	136	26	19	35
21	40	30	62	76	121	173	111	31	218	24	19	25
22	36	28	57	66	103	158	98	60	92	23	18	19
23	33	28	46	62	95	134	87	50	105	22	41	18
24	32	29	49	62	85	166	80	36	78	22	24	63
25	32	31	42	59	80	143	70	67	61	21	20	106
26	30	48	38	52	73	127	63	50	53	22	19	47
27	30	45	e36	62	67	112	62	47	46	23	21	33
28	31	41	e35	57	65	102	58	66	41	21	32	29
29	29	56	e34	55	---	96	53	50	38	26	36	28
30	28	83	e33	529	---	118	50	42	35	23	21	24
31	28	---	e32	486	---	98	---	36	---	21	30	---
TOTAL	1057	1032	1773	2232	3898	4407	3200	1250	2747	1295	762	865
MEAN	34.1	34.4	57.2	72.0	139	142	107	40.3	91.6	41.8	24.6	28.8
MAX	171	83	141	529	444	439	185	67	284	99	61	106
MIN	22	26	32	26	65	58	50	28	35	21	18	18
CFSM	.46	.47	.78	.98	1.89	1.93	1.45	.55	1.24	.57	.33	.39
IN.	.53	.52	.89	1.13	1.97	2.22	1.62	.63	1.39	.65	.38	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	49.1	68.9	112	132	159	192	162	124	80.1	55.3	49.2	47.6
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	31361		24518			
ANNUAL MEAN	85.7		67.2		102	
HIGHEST ANNUAL MEAN					166	1994
LOWEST ANNUAL MEAN					44.2	1954
HIGHEST DAILY MEAN	1650	Feb 14	529	Jan 30	6620	Jun 23 1972
LOWEST DAILY MEAN	21	Sep 2	18	Aug 7 ^a	4.8	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	23	Jan 25 ^b	19	Aug 16	5.3	Sep 28 1991
MAXIMUM PEAK FLOW			999	Jan 30 ^c	d8660	Jun 23 1972
MAXIMUM PEAK STAGE			4.95	Jan 30 ^c	f14.83	Jun 23 1972
INSTANTANEOUS LOW FLOW			16	Aug 9	g4.2	Aug 2 1962
ANNUAL RUNOFF (CFSM)	1.16		.91		1.39	
ANNUAL RUNOFF (INCHES)	15.83		12.38		18.85	
10 PERCENT EXCEEDS	180		135		210	
50 PERCENT EXCEEDS	46		45		61	
90 PERCENT EXCEEDS	24		21		21	

- a Also Aug. 8, 9, 22, Sept. 18, 19, 23.
- b Computed using estimated daily discharges.
- c Also June 20.
- d From rating curve extended above 8,200 ft³/s.
- f From peak-stage indicator.
- g Minimum observed.

