

## MONONGAHELA RIVER BASIN

## 03078000 CASSELMAN RIVER AT GRANTSVILLE, MD

**LOCATION.**--Lat 39°42'08", long 79°08'12", Garrett County, Hydrologic Unit 05020006, on left bank at downstream side of highway bridge, 0.3 mi upstream from Slaubaugh Run, 0.7 mi downstream from U.S. Highway 40, and 1.0 mi northeast of Grantsville.

**DRAINAGE AREA.**--62.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--July 1947 to current year.

**REVISED RECORDS.**--WSP 1143: 1948.

**GAGE.**--Water-stage recorder and concrete control. Datum of gage is 2,088.97 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records good except those for estimated daily discharges (ice effect), which are fair. U.S. Army Corps of Engineers satellite data collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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	6.9	9.8	30	e37	138	70	462	422	185	13	11	6.3
2	6.5	8.9	23	e35	113	76	257	478	120	12	28	6.1
3	6.5	20	19	e33	97	178	200	336	96	11	13	5.8
4	6.2	23	18	e32	93	134	164	237	93	10	13	5.6
5	6.1	14	16	e31	87	98	140	193	80	9.6	14	5.1
6	6.0	11	15	e32	112	94	126	157	121	9.1	43	4.8
7	6.0	10	18	e33	77	81	112	247	145	8.5	17	4.6
8	6.1	9.4	35	e35	78	73	100	314	86	7.9	11	4.4
9	6.1	9.7	111	72	77	69	99	388	68	7.7	8.8	4.1
10	6.3	9.2	59	163	82	63	118	244	58	50	7.9	3.9
11	6.3	8.8	45	395	250	54	90	179	49	35	7.3	3.7
12	6.4	8.4	39	185	152	54	79	194	44	14	6.6	3.6
13	6.8	8.3	38	123	130	54	80	310	123	10	6.5	3.5
14	12	8.0	e50	103	108	52	93	353	153	36	6.3	3.6
15	37	8.1	e64	86	99	47	263	248	95	31	5.9	4.1
16	18	8.2	e50	76	93	92	161	185	82	16	5.8	4.7
17	18	8.1	69	70	90	87	121	174	62	11	5.7	4.9
18	15	8.1	285	66	81	263	103	928	51	9.6	8.1	4.6
19	11	8.3	168	84	77	251	94	463	43	13	19	5.2
20	9.8	9.2	122	97	89	992	92	313	37	11	9.2	4.7
21	9.4	11	91	81	121	679	145	245	32	9.4	7.3	4.9
22	8.6	9.6	77	71	98	368	526	197	27	8.0	6.3	5.5
23	8.2	8.9	68	63	83	279	274	160	24	7.1	9.6	11
24	8.1	8.5	78	546	75	239	194	139	21	6.8	39	7.9
25	8.2	38	67	438	71	203	168	144	19	7.3	20	5.8
26	7.9	54	e62	223	70	271	142	116	17	22	11	12
27	8.3	50	e56	164	69	400	121	99	16	156	8.1	113
28	9.3	66	e52	138	61	244	807	268	20	59	7.1	82
29	9.6	37	e47	123	---	196	512	418	19	24	7.0	27
30	9.7	30	e43	128	---	167	316	188	15	15	7.1	14
31	10	---	e40	184	---	223	---	139	---	11	6.6	---
TOTAL	300.3	521.5	1955	3947	2771	6151	6159	8476	2001	651.0	376.2	376.4
MEAN	9.69	17.4	63.1	127	99.0	198	205	273	66.7	21.0	12.1	12.5
MAX	37	66	285	546	250	992	807	928	185	156	43	113
MIN	6.0	8.0	15	31	61	47	79	99	15	6.8	5.7	3.5
CFSM	0.15	0.28	1.01	2.04	1.58	3.17	3.28	4.37	1.07	0.34	0.19	0.20
IN.	0.18	0.31	1.16	2.35	1.65	3.66	3.67	5.04	1.19	0.39	0.22	0.22

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

MEAN	44.7	85.9	144	160	197	261	211	137	74.9	48.6	38.2	33.5
MAX	288	449	341	376	414	582	468	312	200	175	202	290
(WY)	1955	1986	1973	1996	1956	1963	1970	1996	1951	1996	1956	1996
MIN	1.65	3.38	13.8	26.4	60.3	57.0	77.1	40.1	10.0	4.30	2.87	1.58
(WY)	1954	1954	1999	1977	1964	1990	1968	1976	1965	1965	1991	1991

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1947 - 2002	
ANNUAL TOTAL	37299.9		33685.4			
ANNUAL MEAN	102		92.3		119	
HIGHEST ANNUAL MEAN					203	1996
LOWEST ANNUAL MEAN					64.2	1954
HIGHEST DAILY MEAN	1340	Jun 7	992	Mar 20	(e) 3600	Jan 19 1996
LOWEST DAILY MEAN	6.0	Oct 6	3.5	Sep 13	(a) 0.00	Aug 31 1962
ANNUAL SEVEN-DAY MINIMUM	6.1	Oct 4	3.8	Sep 9	0.89	Aug 27 1962
MAXIMUM PEAK FLOW			1400	Mar 20	(b) 8400	Oct 15 1954
MAXIMUM PEAK STAGE			3.89	Mar 20	10.70	Oct 15 1954
INSTANTANEOUS LOW FLOW			3.4	(c)	(a) 0.00	(d)
ANNUAL RUNOFF (CFSM)	1.64		1.48		1.91	
ANNUAL RUNOFF (INCHES)	22.20		20.05		25.94	
10 PERCENT EXCEEDS	264		244		279	
50 PERCENT EXCEEDS	45		50		66	
90 PERCENT EXCEEDS	8.3		6.4		8.1	

- a Result of regulation from unknown source.
- b From rating curve extended above 1,600 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height of 8.13 ft.
- c Sept. 13, 14.
- d Aug. 31, Sept. 1, 1962.
- e Estimated.

