

MONONGAHELA RIVER BASIN

03078000 CASSELMAN RIVER AT GRANTSVILLE, MD

LOCATION.--Lat 39°42'07.9", long 79°08'11.0", 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 mi².

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, frozen well), which are poor. 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than 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. 5	1745	2,070	4.86	Mar. 29	0000	*2,840	*5.79
Jan. 12	0200	1,680	4.34				

Minimum discharge, 1.5 ft³/s, on several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	54	462	e56	e51	e86	286	121	55	11	5.8	16
2	45	48	306	83	e50	e73	418	97	49	9.4	5.4	9.2
3	44	66	213	103	e49	e63	372	89	64	8.5	5.1	6.3
4	39	148	168	232	e48	e67	359	80	77	7.8	4.9	5.3
5	35	224	144	1,260	e54	e71	366	71	53	8.3	4.6	4.6
6	32	127	134	1,210	e61	103	271	66	48	12	4.5	4.2
7	30	98	171	561	82	254	221	64	159	12	5.0	4.0
8	29	82	207	649	190	588	208	62	69	210	7.1	3.8
9	28	71	175	442	573	280	165	55	52	65	8.0	3.7
10	26	64	364	313	606	204	139	51	49	29	6.6	3.6
11	25	60	369	492	284	174	123	48	71	17	5.8	3.2
12	23	128	274	1,050	204	160	108	48	63	13	5.6	3.1
13	23	150	222	442	163	145	99	45	45	11	4.8	3.0
14	23	97	182	421	327	137	88	45	39	12	4.5	2.9
15	22	83	155	297	569	116	79	63	34	12	4.8	2.8
16	33	76	e138	238	358	105	71	50	35	12	6.5	2.6
17	47	71	e118	207	276	93	65	42	42	31	7.4	2.3
18	29	72	e100	165	204	109	61	38	31	25	5.6	2.0
19	53	109	e90	e140	177	147	58	36	26	15	5.0	1.7
20	48	174	e82	e117	152	184	56	284	23	12	5.0	1.5
21	64	137	e73	e91	254	154	52	173	21	9.3	10	1.6
22	46	111	e71	e83	238	138	79	105	22	8.1	8.6	1.6
23	37	102	e73	e76	168	590	263	102	30	7.7	5.8	1.5
24	61	149	e74	e69	145	578	151	185	20	7.1	4.6	1.5
25	62	320	e67	e64	137	349	152	130	15	7.1	4.2	1.5
26	46	224	e61	e61	124	309	155	106	13	8.3	4.1	1.7
27	38	168	e55	e59	114	287	122	88	11	8.9	5.8	1.9
28	36	225	e53	e57	e100	1,130	105	85	10	11	19	1.9
29	41	172	e50	e55	---	1,660	96	91	11	8.4	8.8	2.5
30	124	142	e51	e54	---	590	108	71	19	7.0	6.8	3.0
31	74	---	e53	e53	---	377	---	64	---	6.3	7.4	---
TOTAL	1,314	3,752	4,755	9,200	5,758	9,321	4,896	2,655	1,256	622.2	197.1	104.5
MEAN	42.4	125	153	297	206	301	163	85.6	41.9	20.1	6.36	3.48
MAX	124	320	462	1,260	606	1,660	418	284	159	210	19	16
MIN	22	48	50	53	48	63	52	36	10	6.3	4.1	1.5
CFSM	0.68	2.00	2.45	4.75	3.29	4.81	2.61	1.37	0.67	0.32	0.10	0.06
IN.	0.78	2.23	2.83	5.48	3.43	5.55	2.91	1.58	0.75	0.37	0.12	0.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)

MEAN	45.7	91.0	144	163	196	268	211	139	78.3	48.1	38.0	38.8
MAX	288	449	341	376	414	582	468	312	298	175	202	290
(WY)	(1955)	(1986)	(1973)	(1996)	(1956)	(1963)	(1970)	(1996)	(2003)	(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)

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03078000 CASSELMAN RIVER AT GRANTSVILLE, MD--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005	
ANNUAL TOTAL	54,591.4		43,830.8		121	
ANNUAL MEAN	149		120		203	
HIGHEST ANNUAL MEAN					64.2	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	1,770	Mar 6	1,660	Mar 29	(e)3,600	Jan 19, 1996
LOWEST DAILY MEAN	7.6	Aug 11	1.5	(a)	(b)0.00	Aug 31, 1962
ANNUAL SEVEN-DAY MINIMUM	10	Aug 5	1.6	Sep 19	0.89	Aug 27, 1962
MAXIMUM PEAK FLOW			2,840	Mar 29	(c)8,400	Oct 15, 1954
MAXIMUM PEAK STAGE			5.79	Mar 29	10.70	Oct 15, 1954
INSTANTANEOUS LOW FLOW			1.5	(d)	(b)0.00	Aug 31, 1962
ANNUAL RUNOFF (CFSM)	2.39		1.92		1.94	
ANNUAL RUNOFF (INCHES)	32.49		26.09		26.38	
10 PERCENT EXCEEDS	323		285		282	
50 PERCENT EXCEEDS	91		64		68	
90 PERCENT EXCEEDS	19		5.0		8.3	

a Sept. 20, 23-25.

b Result of regulation from unknown source.

c From rating curve extended above 1,600 ft³/s on basis of contracted-opening measurement at gage height of 8.13 ft.

d Sept. 20-26.

e Estimated.

