

Water-Data Report 2011

03213500 PANTHER CREEK NEAR PANTHER, WV

Big Sandy Basin
Tug Subbasin

LOCATION.--Lat 37°26'44", long 81°52'16" referenced to North American Datum of 1983, McDowell County, WV, Hydrologic Unit 05070201, on left bank 200 ft downstream from Cub Branch, 2.1 mi upstream from Trace Fork, 3.0 mi southwest of Panther, and at mile 4.2.

DRAINAGE AREA.--31.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1946 to September 1986, and October 2002 to current year (daily discharge and peaks).

REVISED RECORDS.--WSP 1505: 1955(P). WSP 1908: 1955(M), 1957(M). WDR WV-97-1: 1948(P), 1950(M), 1955(P), 1964-81(P).

GAGE.--Water-stage recorder. Datum of gage is approximately 1,049.36 ft above NAVD 88 (1,050 ft above NGVD 29, from topographic map).

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect, no gage-height record), which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 28	2000	*1,210	*7.06
Apr 5	0800	1,040	6.75

Minimum discharge, 0.85 ft³/s, Oct. 20, gage height, 2.25 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.5	1.6	104	64	41	371	40	45	10	4.5	3.6	1.6
2	1.4	1.5	26	75	35	127	49	33	8.6	3.8	3.1	1.7
3	1.4	1.6	12	50	23	71	46	35	7.7	3.3	3.0	1.6
4	1.5	4.3	8.6	32	19	49	62	101	7.0	7.9	3.0	1.5
5	1.6	5.6	7.5	22	19	38	706	90	6.6	13	2.7	21
6	1.5	4.7	6.2	17	16	133	255	69	6.1	6.4	2.6	117
7	1.4	3.6	5.4	14	13	174	123	50	5.9	4.7	2.7	38
8	1.4	2.7	4.8	12	13	146	80	49	6.1	21	7.7	16
9	1.4	2.3	e3.9	8.9	9.7	142	128	41	5.3	42	5.1	9.6
10	1.3	2.0	e4.0	8.0	9.2	304	207	34	5.5	15	4.8	7.2
11	1.3	1.9	4.3	7.5	e8.7	311	126	44	4.9	8.8	3.9	5.8
12	1.3	1.8	7.8	7.3	9.0	148	95	41	6.3	86	3.0	4.9
13	1.2	1.7	20	6.5	8.3	92	84	34	6.7	33	2.6	4.4
14	1.5	1.6	14	5.4	8.2	63	76	29	5.0	16	4.4	3.9
15	1.6	1.8	9.7	6.4	7.8	50	63	27	4.3	10	4.4	3.8
16	1.4	2.5	11	6.5	7.1	42	60	23	4.1	8.8	4.1	3.9
17	1.4	3.3	41	6.6	6.9	33	54	21	3.8	8.0	3.2	3.5
18	1.4	3.1	28	8.0	7.1	29	50	21	3.8	6.9	2.7	3.2
19	1.4	2.5	19	17	8.1	43	45	19	4.4	6.1	4.3	3.1
20	1.2	2.2	13	26	7.3	56	39	17	4.1	5.4	4.2	3.1
21	1.3	2.0	10	29	7.7	55	31	15	4.6	4.8	2.9	3.1
22	1.3	1.8	9.2	e24	11	48	28	14	12	4.3	3.4	2.9
23	1.4	2.2	8.8	e19	10	43	26	17	6.5	7.5	2.9	3.2
24	1.5	2.7	7.9	16	31	55	23	82	7.0	8.7	2.4	3.8
25	1.5	2.5	7.8	15	215	55	20	177	5.2	16	2.1	3.1
26	1.8	9.3	7.8	25	136	48	18	79	4.6	18	2.0	4.3
27	9.6	9.8	7.2	49	74	43	17	47	4.8	8.9	1.9	28
28	4.2	5.6	5.9	48	350	35	96	32	11	6.2	1.8	11
29	2.4	4.1	6.5	41	---	30	95	23	10	4.9	1.7	7.5
30	1.9	5.3	6.8	44	---	30	61	17	6.1	4.3	1.7	6.0
31	1.7	---	14	46	---	32	---	12	---	3.9	1.6	---
Total	56.7	97.6	442.1	756.1	1,111.1	2,896	2,803	1,338	188.0	398.1	99.5	327.7
Mean	1.83	3.25	14.3	24.4	39.7	93.4	93.4	43.2	6.27	12.8	3.21	10.9
Max	9.6	9.8	104	75	350	371	706	177	12	86	7.7	117
Min	1.2	1.5	3.9	5.4	6.9	29	17	12	3.8	3.3	1.6	1.5
Cfsm	0.06	0.10	0.46	0.79	1.28	3.01	3.01	1.39	0.20	0.41	0.10	0.35
In.	0.07	0.12	0.53	0.91	1.33	3.48	3.36	1.61	0.23	0.48	0.12	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.83	18.4	36.8	57.9	69.3	80.3	68.9	40.9	19.7	10.8	10.6	5.87
Max	65.7	83.1	122	192	241	280	146	149	127	58.9	72.5	59.6
(WY)	(1977)	(1978)	(2010)	(2010)	(2003)	(1955)	(1948)	(2009)	(1979)	(1956)	(1958)	(1966)
Min	0.14	0.24	0.65	1.90	9.66	18.3	9.76	6.98	1.31	1.05	0.61	0.18
(WY)	(1954)	(1954)	(1966)	(1966)	(1968)	(1984)	(1986)	(1957)	(1966)	(1959)	(1955)	(1946)

03213500 PANTHER CREEK NEAR PANTHER, WV—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1946 - 2011	
Annual total	15,768.45	10,513.9		
Annual mean	43.2	28.8	35.0	
Highest annual mean			55.8	1979
Lowest annual mean			15.1	1969
Highest daily mean	688	Jan 25	706	Apr 5
Lowest daily mean	0.79	Sep 7	1.2	Oct 13 ^a
Annual seven-day minimum	0.89	Sep 4	1.3	Oct 7
Maximum peak flow			1,210	Feb 28
Maximum peak stage			7.06	Feb 28
Instantaneous low flow			0.85	Oct 20
Annual runoff (cfsm)	1.39	0.929		1.13
Annual runoff (inches)	18.92	12.62		15.35
10 percent exceeds	122	70		79
50 percent exceeds	10	8.0		12
90 percent exceeds	1.4	1.7		1.3

^a Also Oct. 20.^b Several days in September 1946, August and September, 1955.^c From rating curve extended above 2,800 ft³/s on basis of slope-area measurement.^d From floodmarks.