Water-Data Report 2011

03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV

Kanawha Basin
Gauley Subbasin

LOCATION.--Lat 38°17′27″, long 80°38′28″ referenced to North American Datum of 1927, Nicholas County, WV, Hydrologic Unit 05050005, on right bank at downstream side of highway bridge on State Highway 20, 200 ft downstream from Cherry River, 1.8 mi downstream from Cranberry River, 2.7 mi south of Craigsville, and at mile 61.5.

DRAINAGE AREA.--529 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1964 to September 1966 (daily discharge and annual maxima), October 1966 to September 1982 (daily discharge and peaks), October 1982 to September 1983 (daily mean gage height and annual maxima), October 1985 to current year (daily discharge and peaks).

REVISED RECORDS.--WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,869.55 ft above NAVD 88 (1,870.00 ft above NGVD 29).

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1932, is estimated as 65,000 ft^3/s and flood of July 19, 1954, is estimated as 55,000 ft^3/s on the basis of discharge-area comparison with Gauley River at Camden on Gauley (03187000) and Gauley River near Summersville (03189500).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1000	*23,100	*18.78
Mar 1	0000	16,700	17.16
Mar 6	1500	14,700	16.59
Mar 10	2300	13,700	16.32
Apr 16	2100	13,900	16.36
Apr 28	1230	12,500	15.95

Minimum discharge, 37 ft^3/s, Sept. 3, gage height, 9.55 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03189100, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03189100.2011.pdf

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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	478	299	14,300	3,610	1,100	10,200	1,020	2,240	612	446	83	54
2	394	258	5,760	8,110	5,500	4,730	994	1,710	498	335	68	49
3	233	232	3,090	4,660	4,740	2,980	1,020	1,340	396	260	59	40
4	190	449	2,070	2,820	2,820	2,110	1,430	1,540	313	237	55	41
5	398	1,410	1,580	1,990	2,210	1,630	6,150	1,740	1,000	958	48	65
6	776	1,110	1,250	1,460	2,330	9,360	5,250	1,580	728	655	43	2,440
7	1,110	842	1,110	1,220	1,890	5,960	3,490	1,370	477	432	48	2,800
8	662	701	966	1,010	1,590	3,750	2,590	1,210	374	321	58	1,070
9	452	630	836	753	1,200	3,670	3,200	1,040	294	580	118	664
10	340	562	e801	648	1,080	10,500	3,740	863	248	434	140	471
11	261	498	766	e596	835	9,070	2,880	759	240	307	98	348
12	212	429	1,040	e561	867	4,790	2,840	837	413	274	71	271
13	177	382	1,580	e530	809	4,010	7,950	1,420	378	242	57	213
14	253	348	1,170	503	817	3,110	4,680	1,280	267	200	47	172
15	692	333	971	e488	786	2,370	3,040	1,180	193	155	44	148
16	585	373	846	e478	731	1,980	5,610	1,240	153	122	50	134
17	517	818	e787	468	866	1,750	6,680	1,890	132	99	45	123
18	410	921	e727	480	2,060	1,580	3,700	4,490	113	91	50	106
19	342	733	e673	755	4,300	2,630	2,580	4,060	841	409	53	90
20	294	622	e631	1,080	2,660	2,250	1,950	3,020	3,550	413	76	93
21	254	538	e601	908	2,460	1,850	1,480	2,710	1,910	209	64	114
22	223	474	576	691	5,570	4,700	1,220	1,970	1,120	143	298	141
23	193	438	557	e658	3,450	4,330	2,730	1,570	765	381	157	127
24	170	412	542	628	2,560	7,030	2,640	1,270	652	310	98	119
25	155	363	e535	745	5,890	4,910	2,210	1,160	518	302	82	125
26	147	457	e532	827	5,220	3,180	1,830	896	413	884	90	248
27	449	748	526	1,170	3,330	2,320	1,710	1,010	574	460	82	379
28	798	622	533	982	6,090	1,720	7,920	1,920	766	284	77	353
29	518	532	531	849	---	1,380	5,450	1,470	1,010	187	64	302
30	403	555	623	850	---	1,150	3,200	1,020	632	136	55	259
31	346	---	953	944	---	1,060	---	778	---	106	52	---
Total	12,432	17,089	47,463	41,472	73,761	122,060	101,184	50,583	19,580	10,372	2,430	11,559
Mean	401	570	1,531	1,338	2,634	3,937	3,373	1,632	653	335	78.4	385
Max	1,110	1,410	14,300	8,110	6,090	10,500	7,950	4,490	3,550	958	298	2,800
Min	147	232	526	468	731	1,060	994	759	113	91	43	40
Cfsm	0.76	1.08	2.89	2.53	4.98	7.44	6.38	3.08	1.23	0.63	0.15	0.73
In.	0.87	1.20	3.34	2.92	5.19	8.58	7.12	3.56	1.38	0.73	0.17	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	719	1,379	1,878	1,931	2,025	2,667	2,042	1,698	928	755	606	499
Max	3,531	4,464	3,561	3,722	3,928	4,968	3,525	3,575	2,730	2,270	2,819	2,056
(WY)	(1977)	(1986)	(1979)	(1996)	(1994)	(1967)	(1987)	(1996)	(1974)	(2001)	(1989)	(2003)
Min	31.4	78.7	341	464	551	1,157	676	463	100	58.3	67.9	26.9
(WY)	(2009)	(2002)	(1966)	(1977)	(1978)	(2006)	(1995)	(1991)	(1991)	(1999)	(1988)	(2008)

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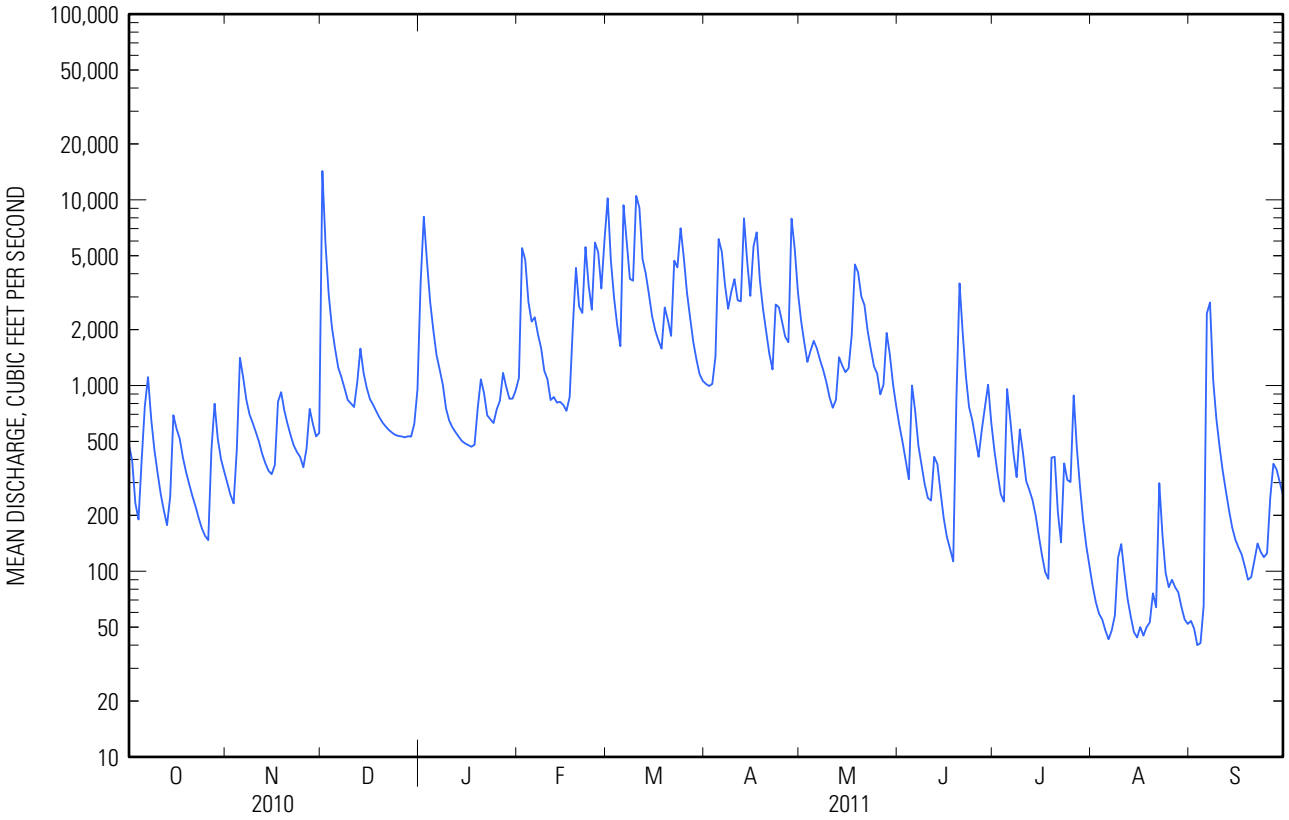
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1965 - 2011	
Annual total	476,005		509,985			
Annual mean	1,304		1,397		1,425	
Highest annual mean					1,944	1996
Lowest annual mean					854	1999
Highest daily mean	23,200	Jan 25	14,300	Dec 1	29,800	Oct 9, 1976
Lowest daily mean	24	Sep 26	40	Sep 3	8.2	Sep 12, 1995
Annual seven-day minimum	31	Sep 21	49	Aug 13	9.0	Sep 10, 1995
Maximum peak flow			23,100	Dec 1	[a]63,500	Nov 19, 2003
Maximum peak stage			18.78	Dec 1	25.94	Nov 19, 2003
Instantaneous low flow			37	Sep 3	7.6	Aug 22, 1987
Annual runoff (cfsm)	2.47		2.64		2.69	
Annual runoff (inches)	33.47		35.86		36.61	
10 percent exceeds	3,380		3,680		3,260	
50 percent exceeds	622		701		827	
90 percent exceeds	75		103		107	

[a] From rating curve extended above 35,000 ft³/s, highest since 1932.