Water-Data Report 2012

02069000 DAN RIVER AT PINE HALL, NC

Roanoke Basin
Upper Dan Subbasin

LOCATION.--Lat 36°19′09″, long 80°03′01″ referenced to North American Datum of 1927, Stokes County, NC, Hydrologic Unit 03010103, Located on the left bank of Secondary Road 2023, at Pine Hall, 1.5 miles upstream of Belews Creek and 2.5 miles downstream of Town Fork Creek.

DRAINAGE AREA.--501.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1923 to March 1926, April 1986 to October 1990, December 2008 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 598 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1923 to March 1926, nonrecording gage at different elevation. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. Some diurnal fluctuation and slight regulation at low flow caused by Talbott and Townes Reservoirs (station numbers 02067800, 02067820) and other upstream development. Minimum for period of record not determined, occurred during period of no gage-height record, July 1986. Minimum discharge for current water year also occurred October 10.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 17, 1985 reached a stage of 25 ft, present datum, from floodmarks, discharge not determined. Flood of September 22, 1979 reached a stage of 27.5 ft, present datum, information supplied by local resident.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02069000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02069000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	171	207	724	522	432	422	602	351	438	284	206	234
2	162	203	545	490	457	404	575	410	490	290	224	236
3	172	200	501	455	424	451	544	354	404	238	206	337
4	158	641	423	425	398	528	575	317	356	256	215	370
5	156	550	365	429	471	431	562	308	335	233	233	685
6	155	328	339	420	447	389	544	381	317	239	208	475
7	150	277	1,810	410	411	371	494	314	365	249	209	422
8	153	255	4,010	402	399	365	470	307	312	227	204	325
9	160	241	1,250	405	397	394	453	3,270	290	199	209	313
10	149	234	867	380	383	389	441	2,760	312	202	216	264
11	156	227	692	384	379	358	411	1,020	278	248	315	244
12	558	218	633	1,040	361	354	371	686	2,070	312	330	234
13	579	232	590	716	357	358	372	494	2,410	246	233	231
14	479	213	511	558	362	353	365	4,010	713	591	212	226
15	383	211	466	463	347	340	351	5,260	499	404	209	222
16	263	285	458	425	319	346	325	1,880	401	405	211	272
17	224	1,460	593	424	356	359	316	1,220	397	378	207	302
18	208	768	508	490	346	370	425	850	356	304	201	444
19	208	439	461	463	348	355	465	719	376	308	210	1,170
20	240	354	440	436	463	337	374	640	301	412	297	521
21	235	316	438	513	511	346	349	537	313	275	351	405
22	208	294	464	640	482	336	351	544	343	335	289	358
23	200	385	868	555	515	328	376	1,330	438	314	489	357
24	213	498	843	573	519	1,180	337	1,090	340	250	268	312
25	197	343	666	528	543	5,270	320	641	278	246	238	291
26	190	311	600	497	453	3,350	360	509	282	237	236	277
27	189	300	900	493	425	1,540	468	454	248	265	213	247
28	185	298	1,490	505	410	1,030	363	417	235	357	228	235
29	221	2,080	837	467	385	863	349	393	243	287	535	288
30	259	1,300	641	451	---	725	325	445	246	217	315	465
31	219	---	572	440	---	677	---	452	---	206	264	---
Total	7,200	13,668	24,505	15,399	12,100	23,319	12,633	32,363	14,386	9,014	7,981	10,762
Mean	232	456	790	497	417	752	421	1,044	480	291	257	359
Max	579	2,080	4,010	1,040	543	5,270	602	5,260	2,410	591	535	1,170
Min	149	200	339	380	319	328	316	307	235	199	201	222

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	526	452	605	750	746	856	817	743	562	482	333	433
Max	1,696	889	1,262	1,567	1,894	1,551	2,901	1,437	1,435	1,246	797	953
(WY)	(1991)	(2010)	(2010)	(2010)	(1990)	(1990)	(1987)	(1990)	(1989)	(1989)	(1989)	(1924)
Min	168	303	254	303	250	413	350	273	168	136	154	182
(WY)	(1926)	(1926)	(1926)	(2011)	(2009)	(1988)	(1986)	(1986)	(1986)	(1986)	(2011)	(1925)

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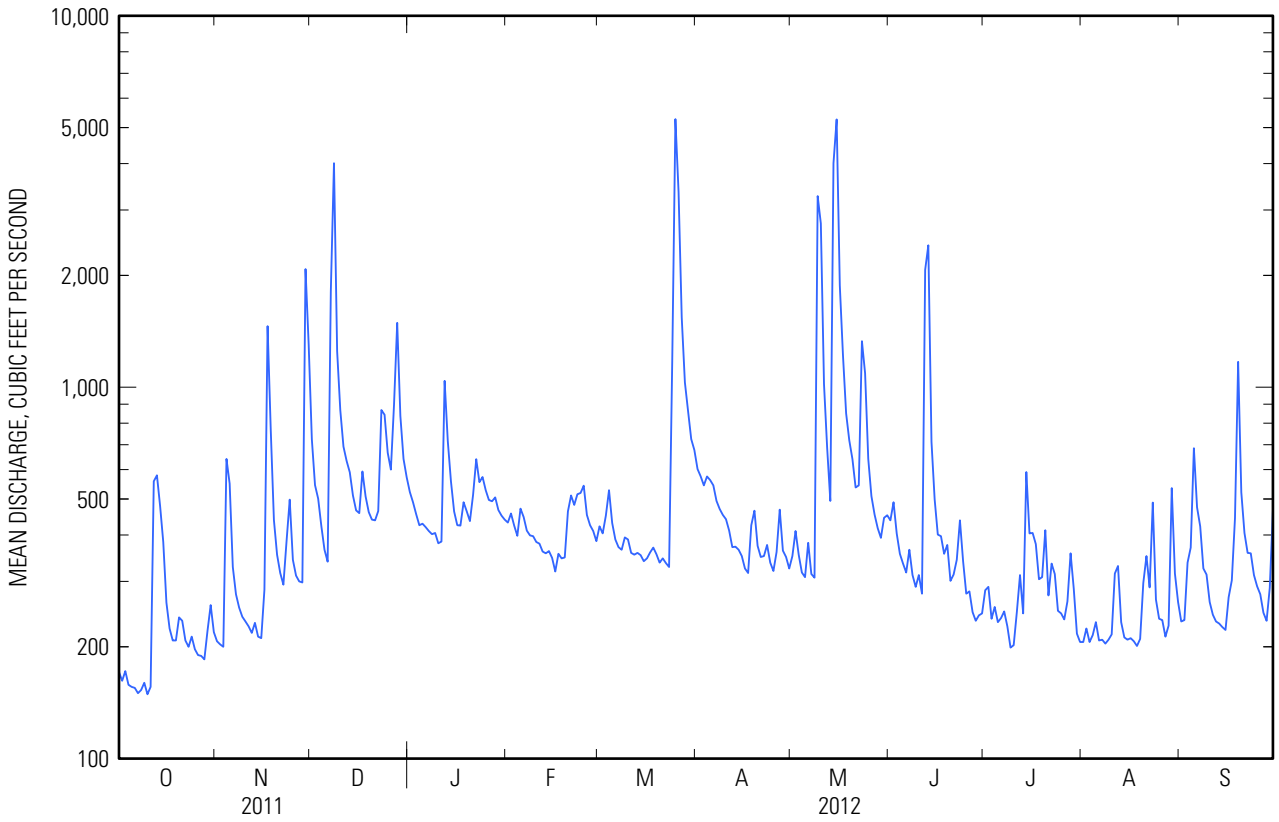
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1924 - 2012[a]	
Annual total	158,053		183,330			
Annual mean	433		501		636	
Highest annual mean					1,025	1990
Lowest annual mean					378	1988
Highest daily mean	4,010	Dec 8	5,270	Mar 25	18,300	Jan 25, 2010
Lowest daily mean	111	Aug 31	149	Oct 10	65	Sep 9, 1925
Annual seven-day minimum	130	Aug 19	154	Oct 5	91	Jul 16, 1986
Maximum peak flow			11,100	May 14	27,800	Jan 25, 2010
Maximum peak stage			17.58	May 14	25.77	Jan 25, 2010
Instantaneous low flow			[b]147	Oct 9	[b]Not determined	
10 percent exceeds	791		717		1,110	
50 percent exceeds	306		365		420	
90 percent exceeds	154		211		200	

[a] See Period of Record.
[b] See Remarks.



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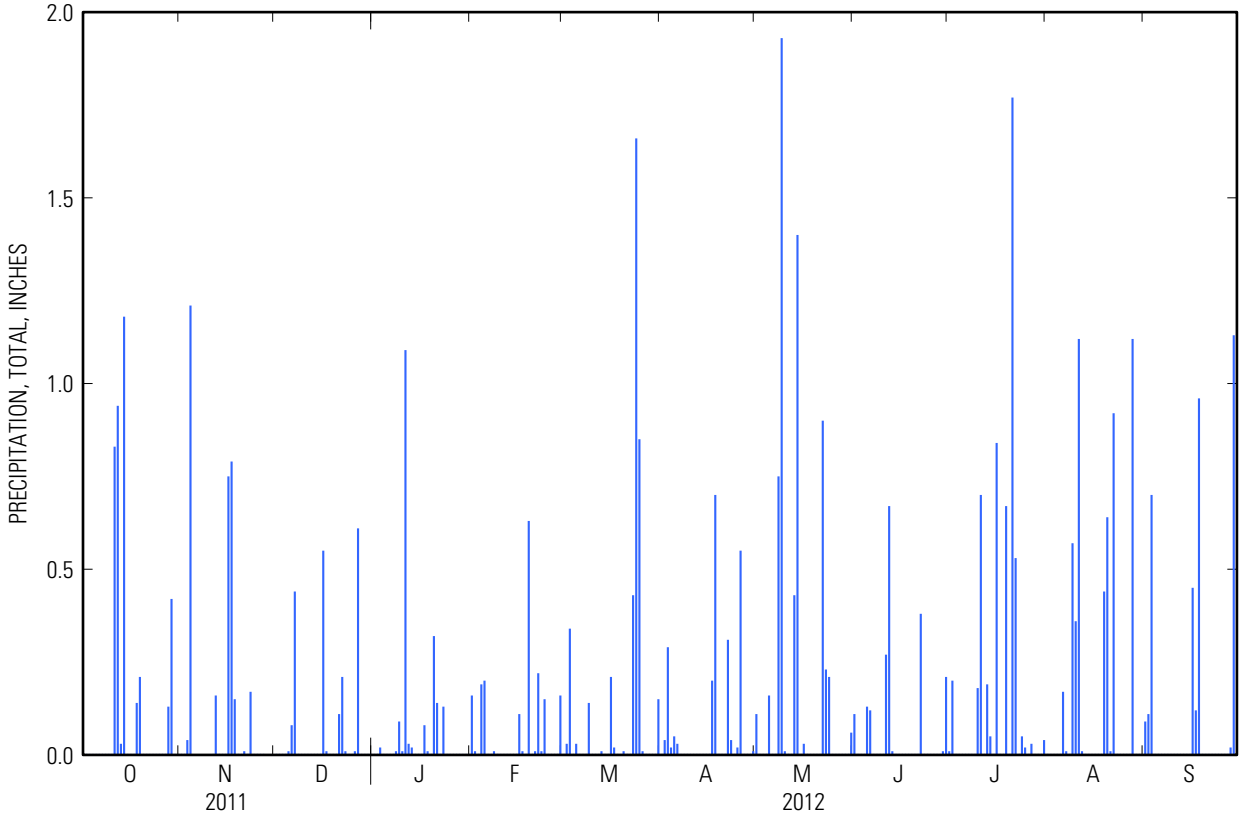
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--December 2008 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.11	0.11	0.01	0.00	0.09
2	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.00	0.00	0.20	0.00	0.11
3	0.00	0.04	0.00	0.02	0.00	0.34	0.29	0.00	0.00	0.00	0.00	0.70
4	0.00	1.21	0.00	0.00	0.19	0.00	0.02	0.00	0.00	0.00	0.00	0.00
5	0.00	---	0.01	0.00	0.20	0.03	0.05	0.16	0.13	0.00	0.00	0.00
6	0.00	---	0.08	0.00	0.00	0.00	0.03	0.00	0.12	0.00	0.17	0.00
7	0.00	---	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
8	0.00	---	0.00	0.01	0.01	0.00	0.00	0.75	0.00	0.00	0.00	0.00
9	0.00	---	0.00	0.09	0.00	0.14	0.00	1.93	0.00	0.00	0.57	0.00
10	0.00	---	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.18	0.36	0.00
11	0.83	0.00	0.00	1.09	0.00	0.00	0.00	0.00	0.27	0.70	1.12	0.00
12	0.94	0.16	0.00	0.03	0.00	0.00	0.00	0.00	0.67	0.00	0.01	0.00
13	0.03	0.00	0.00	0.02	0.00	0.01	0.00	0.43	0.01	0.19	0.00	0.00
14	1.18	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.05	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.75	0.55	0.00	0.11	0.21	0.00	0.03	0.00	0.84	0.00	0.45
17	0.00	0.79	0.01	0.08	0.01	0.02	0.20	0.00	0.00	0.00	0.00	0.12
18	0.14	0.15	0.00	0.01	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.96
19	0.21	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.67	0.44	0.00
20	0.00	0.00	0.00	0.32	0.00	0.01	0.00	0.00	0.00	0.00	0.64	0.00
21	0.00	0.01	0.11	0.14	0.01	0.00	0.00	0.00	0.00	1.77	0.01	0.00
22	0.00	0.00	0.21	0.00	0.22	0.00	0.31	0.90	0.38	0.53	0.92	0.00
23	0.00	0.17	0.01	0.13	0.01	0.43	0.04	0.23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.15	1.66	0.00	0.21	0.00	0.05	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.85	0.02	0.00	0.00	0.02	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.01	0.55	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
28	0.13	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.02
29	0.42	---	0.00	0.00	0.16	0.00	0.00	0.00	0.01	0.00	0.00	1.13
30	0.00	---	0.00	0.00	---	0.00	0.01	0.00	0.21	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.15	---	0.06	---	0.04	0.00	---
Total	3.88	---	2.04	1.95	1.87	3.89	2.26	6.22	1.91	5.28	5.37	3.58

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