

Water-Data Report 2010

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 mi².

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.--Records fair except those for estimated daily discharges, which are poor. 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.

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.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	168	1,550	326	802	875	711	981	363	329	215	357	251
2	165	996	468	738	988	619	851	363	477	206	285	234
3	162	444	2,310	625	2,270	618	774	376	968	185	245	225
4	160	321	962	595	1,860	574	752	520	612	217	226	215
5	153	270	756	558	2,600	552	709	368	486	200	209	220
6	159	239	835	483	6,170	550	667	326	457	171	288	191
7	161	217	697	483	2,760	550	624	304	400	170	258	166
8	162	203	542	477	1,890	540	622	292	360	210	217	165
9	146	187	3,740	368	1,430	562	2,030	264	346	269	185	163
10	148	200	2,130	445	1,480	565	1,110	249	366	322	170	166
11	152	3,330	1,190	444	1,220	e720	882	242	349	292	298	149
12	146	7,350	945	464	1,090	e750	760	251	353	213	1,920	160
13	149	2,780	1,410	399	1,010	e2,570	657	253	453	273	569	168
14	161	1,410	1,900	502	924	e2,900	627	243	531	370	427	150
15	188	931	1,040	520	902	e1,550	595	302	473	269	621	137
16	199	678	763	509	921	e1,080	603	283	449	219	550	125
17	171	494	630	2,470	771	e923	521	1,040	440	378	359	121
18	160	412	565	1,820	688	778	390	1,030	378	831	1,140	122
19	145	412	835	1,070	699	723	390	560	329	380	974	121
20	143	371	828	810	745	677	409	401	321	291	1,050	122
21	144	349	799	728	755	647	511	326	347	270	633	123
22	128	301	757	1,150	842	795	525	309	295	257	480	117
23	121	413	705	979	882	879	437	501	313	272	382	307
24	159	523	670	992	850	736	439	414	313	290	328	219
25	173	415	2,760	18,300	836	629	561	365	322	261	335	148
26	138	381	4,540	4,400	744	687	536	343	291	227	331	156
27	142	404	1,920	2,200	755	708	453	270	285	197	288	854
28	484	364	1,290	1,690	719	667	409	248	280	278	276	1,150
29	365	382	1,040	1,360	---	3,460	353	936	281	237	316	647
30	227	337	927	1,220	---	1,810	360	419	252	197	267	4,080
31	204	---	832	982	---	1,260	---	308	---	178	251	---
Total	5,483	26,664	39,112	48,583	37,676	30,790	19,538	12,469	11,856	8,345	14,235	11,172
Mean	177	889	1,262	1,567	1,346	993	651	402	395	269	459	372
Max	484	7,350	4,540	18,300	6,170	3,460	2,030	1,040	968	831	1,920	4,080
Min	121	187	326	368	688	540	353	242	252	170	170	117
Cfsm	0.35	1.77	2.52	3.13	2.69	1.98	1.30	0.80	0.79	0.54	0.92	0.74
In.	0.41	1.98	2.90	3.61	2.80	2.29	1.45	0.93	0.88	0.62	1.06	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	548	468	603	828	832	857	871	733	602	535	361	461
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	328	250	413	350	273	168	136	169	182
(WY)	(1926)	(1926)	(1926)	(1989)	(2009)	(1988)	(1986)	(1986)	(1986)	(1986)	(1925)	(1925)

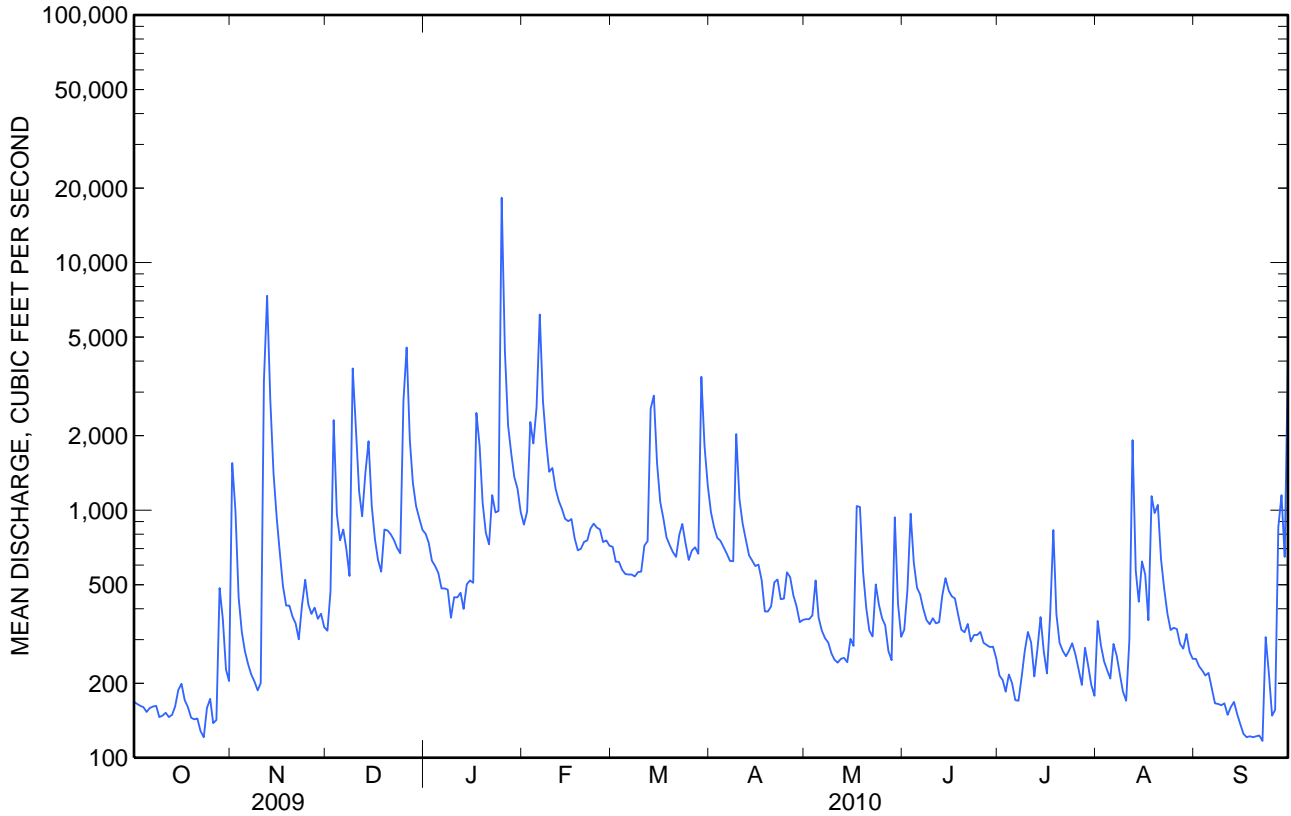
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SUMMARY STATISTICS

	Water Year 2010		Water Years 1924 - 2010 ^a	
Annual total	265,923			
Annual mean	729		685	
Highest annual mean			1,025	1990
Lowest annual mean			378	1988
Highest daily mean	18,300	Jan 25	18,300	Jan 25, 2010
Lowest daily mean	117	Sep 22	65	Sep 9, 1925
Annual seven-day minimum	122	Sep 16	91	Jul 16, 1986
Maximum peak flow	27,800	Jan 25	27,800	Jan 25, 2010
Maximum peak stage	25.77	Jan 25	25.77	Jan 25, 2010
Instantaneous low flow	107	Sep 22	^b Not Determined	
10 percent exceeds	1,320		1,190	
50 percent exceeds	439		454	
90 percent exceeds	165		206	

^a See Period of Record.

^b See Remarks.



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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 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	2.02	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.08	0.00
2	0.00	0.00	1.17	0.00	---	---	0.00	0.00	0.86	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	---	0.00	0.17	0.00	0.00	0.00	0.00
4	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00
5	0.05	0.00	0.35	0.00	1.31	0.00	0.01	0.00	0.00	0.00	0.35	0.00
6	0.02	0.00	0.01	0.00	0.62	0.00	0.00	0.00	0.06	0.00	0.01	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.57	0.01	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.02
9	0.00	0.00	0.80	0.00	0.08	0.00	0.02	0.00	0.00	0.71	0.00	0.00
10	0.22	0.83	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.98	0.00
11	0.00	3.21	0.00	0.00	0.00	0.36	0.00	0.04	0.00	0.00	3.84	0.08
12	0.24	2.37	0.00	0.00	0.00	0.44	0.00	0.00	0.25	0.13	0.30	0.01
13	0.00	0.00	0.95	0.00	0.00	0.37	0.00	0.00	0.85	0.70	0.00	0.00
14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.03	0.00	0.00	0.00
15	0.04	0.00	0.00	0.00	0.12	0.00	0.00	0.01	0.52	0.00	0.03	0.00
16	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.19	0.65	0.00	0.00	0.00
17	0.00	0.00	0.00	1.40	0.00	0.00	0.00	1.77	0.01	1.36	0.14	0.00
18	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.56	0.00
19	0.00	0.09	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00
20	0.00	0.00	---	0.07	0.00	0.00	0.06	0.00	0.00	0.02	0.00	0.00
21	0.00	0.00	0.00	0.50	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.04	0.19	0.27	0.00	0.07	0.00	0.15	0.00	0.64
23	0.02	0.88	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.02	0.00	0.00
24	0.29	0.01	0.00	1.09	0.24	0.00	0.13	0.04	0.12	0.00	0.00	0.00
25	0.00	0.00	1.07	0.89	0.00	0.00	0.07	0.09	0.00	0.00	0.22	0.04
26	0.00	0.02	0.01	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	1.01
27	1.42	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.41	0.00	1.01
28	0.13	0.00	0.00	0.00	0.00	1.44	0.00	0.27	0.05	0.00	0.00	0.01
29	0.00	0.00	0.00	0.00	---	0.34	0.00	0.00	0.00	0.00	0.00	0.66
30	0.00	0.11	0.00	0.00	---	0.01	0.00	0.00	0.00	0.00	0.00	3.99
31	0.67	---	0.10	0.00	---	0.00	---	0.13	---	0.31	0.00	---
Total	3.35	10.30	---	4.02	---	---	1.81	2.90	3.52	3.81	7.43	7.47

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