

Water-Data Report 2007

**02071000 DAN RIVER NEAR WENTWORTH, NC**

Roanoke Basin  
Upper Dan Subbasin

LOCATION.--Lat 36°24'45", long 79°49'34" referenced to North American Datum of 1983, Rockingham County, NC, Hydrologic Unit 03010103, on right bank 600 ft downstream of Settles Bridge on Secondary Road 2150, 3.5 mi northwest of Wentworth, 7.5 mi downstream of Mayo River, and 103.7 mi upstream from mouth.

DRAINAGE AREA.--1,053 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

REVISED RECORDS.--WDR NC-72-1: 1945(M). WRIR 96-4154: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 512.98 ft above NGVD of 1929. Prior to Aug. 3, 1949, water-stage recorder at site 150 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Slight fluctuation and regulation at low flow caused by Talbott and Townes Reservoirs. Maximum gage height for period of record, from high-water mark in gage well. Minimum discharge for current water year also occurred September 14.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 34.9 ft, from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft, from information by local resident.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	453	796	894	15,600	845	968	1,110	874	563	719	468	714
2	429	789	928	16,700	878	9,840	1,020	853	639	573	414	748
3	406	845	861	3,450	864	5,230	995	844	787	463	377	408
4	398	747	809	2,660	823	2,620	959	894	1,350	446	374	310
5	397	687	784	2,350	801	1,830	892	888	854	472	357	271
6	741	653	802	2,590	753	1,500	890	856	680	847	344	244
7	751	684	802	2,240	905	1,340	892	828	616	645	338	226
8	705	1,380	774	6,860	855	1,260	900	800	562	483	325	216
9	682	1,680	751	4,800	787	1,180	911	787	627	474	326	210
10	561	1,100	764	2,750	812	1,130	916	767	654	421	307	203
11	494	923	725	2,140	779	1,070	949	781	541	655	288	196
12	594	1,020	715	1,810	796	1,000	1,670	794	689	597	302	191
13	645	958	757	1,550	816	985	1,420	884	641	478	267	182
14	492	849	781	1,400	4,250	995	1,070	784	593	428	254	260
15	449	816	755	1,330	2,520	978	1,700	744	589	421	236	3,840
16	429	6,910	742	1,260	1,620	4,210	6,010	709	641	428	224	972
17	483	7,300	709	1,170	1,330	6,050	2,530	705	628	941	221	565
18	858	2,630	679	1,120	1,100	2,490	1,760	767	604	751	231	460
19	734	1,590	688	1,150	954	1,850	1,480	769	554	568	229	411
20	695	1,300	692	1,150	954	1,610	1,360	679	665	449	206	386
21	731	1,130	638	1,040	964	1,440	1,180	672	710	413	202	370
22	643	3,240	701	1,130	936	1,270	1,110	650	562	381	237	365
23	562	3,850	1,360	1,190	856	1,190	1,060	648	503	359	311	372
24	518	2,300	1,310	1,100	826	1,160	1,010	623	460	389	306	359
25	491	1,450	1,460	1,030	910	1,120	998	618	557	566	260	332
26	502	1,200	3,660	1,010	1,350	1,080	932	593	518	872	244	315
27	527	1,060	2,030	993	1,160	1,040	979	583	487	559	226	302
28	1,970	1,050	1,510	950	1,030	1,030	1,060	576	489	486	229	287
29	1,920	996	1,320	916	---	1,190	939	548	623	492	217	260
30	1,060	921	1,140	944	---	1,300	891	545	610	1,090	223	244
31	889	---	1,020	901	---	1,190	---	538	---	588	291	---
<b>Total</b>	21,209	50,854	31,561	85,284	31,474	61,146	39,593	22,601	18,996	17,454	8,834	14,219
<b>Mean</b>	684	1,695	1,018	2,751	1,124	1,972	1,320	729	633	563	285	474
<b>Max</b>	1,970	7,300	3,660	16,700	4,250	9,840	6,010	894	1,350	1,090	468	3,840
<b>Min</b>	397	653	638	901	753	968	890	538	460	359	202	182
<b>Cfsm</b>	0.65	1.61	0.97	2.61	1.07	1.87	1.25	0.69	0.60	0.53	0.27	0.45
<b>In.</b>	0.75	1.80	1.11	3.01	1.11	2.16	1.40	0.80	0.67	0.62	0.31	0.50

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	880	917	1,136	1,398	1,572	1,843	1,662	1,264	1,083	897	824	867
<b>Max</b>	3,676	2,963	2,458	3,274	4,308	5,345	4,951	3,149	4,220	2,345	3,067	3,667
<b>(WY)</b>	(1960)	(1958)	(1997)	(1978)	(1960)	(1975)	(1987)	(1972)	(1972)	(1949)	(1940)	(1979)
<b>Min</b>	219	231	398	392	518	661	520	411	233	202	102	166
<b>(WY)</b>	(2002)	(2002)	(2002)	(1956)	(2002)	(1985)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
<b>Annual total</b>	341,500		403,225			
<b>Annual mean</b>	936		1,105		1,194	
<b>Highest annual mean</b>					1,985	1960
<b>Lowest annual mean</b>					373	2002
<b>Highest daily mean</b>	8,360	Jan 14	16,700	Jan 2	47,800	Jun 22, 1972
<b>Lowest daily mean</b>	279	Aug 29	182	Sep 13	63	Aug 12, 2002
<b>Annual seven-day minimum</b>	380	Aug 23	203	Sep 7	65	Aug 9, 2002
<b>Maximum peak flow</b>			24,600	Jan 1	54,200	Jun 22, 1972
<b>Maximum peak stage</b>			22.78	Jan 1	<sup>a</sup> 31.60	Jun 22, 1972
<b>Instantaneous low flow</b>			<sup>a</sup> 178	Sep 13	62	Aug 12, 2002
<b>Annual runoff (cfsm)</b>	0.889		1.05		1.13	
<b>Annual runoff (inches)</b>	12.06		14.24		15.41	
<b>10 percent exceeds</b>	1,420		1,720		2,000	
<b>50 percent exceeds</b>	741		787		829	
<b>90 percent exceeds</b>	440		311		398	

<sup>a</sup> See Remarks.

