

ROANOKE RIVER BASIN

02071000 DAN RIVER NEAR WENTWORTH, NC

LOCATION.--Lat 36°24'45", long 79°49'35", Rockingham County, 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 mi².

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). WDR NC-81-1: Drainage area. WRIR 96-4154: Drainage area.

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Slight fluctuation and regulation at low flow caused by Talbott and Townes Reservoirs (stations 02067800 and 02067820). Maximum gage height for period of record, from high-water mark in gage well. Minimum discharge for current water year also occurred Sept. 20.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	287	351	350	530	613	2880	473	555	359	506	266
2	451	287	344	433	484	573	2800	473	639	325	426	419
3	429	293	368	378	467	554	1710	475	576	310	374	409
4	440	296	331	326	452	687	1450	460	501	337	333	312
5	465	295	310	432	461	877	1200	437	475	657	316	322
6	460	291	405	457	456	806	1010	432	551	513	301	298
7	438	294	374	410	444	689	941	430	845	339	317	306
8	415	304	345	428	439	650	877	408	631	320	297	257
9	312	340	336	474	430	592	815	402	525	481	300	243
10	298	515	335	370	443	564	794	399	464	454	285	242
11	303	573	347	372	438	533	743	399	424	394	e300	242
12	306	407	353	430	424	524	717	382	420	347	e1000	278
13	330	353	339	377	463	584	728	368	412	314	e800	237
14	310	365	346	386	506	627	740	342	402	273	e2400	215
15	298	372	388	367	515	624	672	332	420	256	713	207
16	300	344	413	363	508	964	649	546	497	238	452	203
17	298	357	646	354	1120	868	624	853	474	262	367	199
18	296	383	856	399	1120	728	599	741	384	222	396	197
19	302	341	615	851	774	647	584	560	331	224	791	185
20	289	366	518	2920	656	625	575	778	316	233	918	198
21	290	371	361	2140	612	2480	566	853	328	216	955	238
22	290	403	551	1120	578	3370	559	1720	381	203	492	264
23	292	405	355	824	565	1720	545	1920	670	225	386	258
24	284	371	410	715	587	1240	544	1090	709	203	520	247
25	292	358	494	645	612	1050	772	922	502	190	431	630
26	308	470	377	568	812	936	665	1280	449	318	334	527
27	296	523	420	543	765	796	563	1050	509	533	301	326
28	295	431	483	521	665	699	528	813	446	567	292	281
29	287	378	383	495	---	954	505	727	396	568	345	260
30	284	356	423	516	---	7330	481	657	373	905	290	233
31	284	---	351	572	---	2570	---	567	---	780	262	---
TOTAL	10417	11129	12928	19536	16326	36474	26836	21289	14605	11566	16200	8499
MEAN	336	371	417	630	583	1177	895	687	487	373	523	283
MAX	475	573	856	2920	1120	7330	2880	1920	845	905	2400	630
MIN	284	287	310	326	424	524	481	332	316	190	262	185
CFSM	.32	.35	.40	.60	.55	1.12	.85	.65	.46	.35	.50	.27
IN.	.37	.39	.46	.69	.58	1.29	.95	.75	.52	.41	.57	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	891	901	1128	1398	1604	1864	1684	1298	1079	895	820	847																																																		
MAX	3676	2963	2458	3274	4308	5345	4951	3149	4220	2345	3067	3667																																																		
(WY)	1960	1958	1997	1978	1960	1975	1987	1972	1972	1949	1940	1979																																																		
MIN	237	297	417	392	583	661	592	515	333	268	218	166																																																		
(WY)	1954	1954	2001	1956	2001	1985	1985	1981	1986	1986	1981	1954																																																		

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1940 - 2001
ANNUAL TOTAL	246377	205805	
ANNUAL MEAN	673	564	1199
HIGHEST ANNUAL MEAN			1985
LOWEST ANNUAL MEAN			564
HIGHEST DAILY MEAN	5630	Mar 21	7330
LOWEST DAILY MEAN	198	Aug 24	185
ANNUAL SEVEN-DAY MINIMUM	209	Aug 21	201
MAXIMUM PEAK FLOW			10000
MAXIMUM PEAK STAGE			13.53
INSTANTANEOUS LOW FLOW			176*
ANNUAL RUNOFF (CFSM)	.64	.54	1.14
ANNUAL RUNOFF (INCHES)	8.70	7.27	15.48
10 PERCENT EXCEEDS	1160	861	2000
50 PERCENT EXCEEDS	539	432	821
90 PERCENT EXCEEDS	294	284	407

e Estimated.

* See REMARKS.

02071000 DAN RIVER NEAR WENTWORTH, NC--Continued

