

ROANOKE RIVER BASIN

02068500 DAN RIVER NEAR FRANCISCO, NC

LOCATION.--Lat 36°30'53", long 80°18'10", Stokes County, Hydrologic Unit 03010103, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream of remains of Georges Mill, 0.2 mi downstream of Elk Creek, 3 mi east of Francisco, and 7.9 mi downstream of Little Dan River.

DRAINAGE AREA.--129 mi².

PERIOD OF RECORD.--August 1924 to September 1987, December 1991 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1938-50 (monthly runoff). WSP 1433: 1925-26, 1928-29, 1931, 1942, 1948. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 831.99 ft above NGVD of 1929. Prior to Nov. 15, 1929, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those for discharges above 1,000 ft³/s, which are fair. Since 1938, considerable diurnal fluctuation and regulation by Talbott and Townes Reservoirs (stations 02067800 and 02067820, respectively) and Pinnacles Hydroelectric Plant in Virginia, 28 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 15 ft, from information by local residents, discharge, 16,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	100	91	179	110	205	291	307	320	457	446	292
2	60	92	92	198	120	210	238	276	276	717	365	241
3	62	88	110	237	117	199	187	267	183	665	519	268
4	61	87	112	230	145	169	189	422	338	570	482	529
5	60	94	125	213	141	170	246	372	485	527	458	289
6	59	148	101	202	127	223	298	381	358	496	471	253
7	60	118	114	200	127	227	357	362	1,130	461	e2,000	247
8	60	106	119	192	126	187	383	343	1,210	417	e1,000	232
9	59	101	120	186	120	187	e640	327	1,480	450	663	225
10	60	92	115	184	131	188	e1,400	258	694	501	791	222
11	87	349	200	177	130	173	e1,000	260	501	384	905	218
12	82	503	184	e174	133	161	724	277	814	377	567	216
13	66	330	269	e170	171	135	598	179	1,030	395	540	228
14	64	180	351	e168	172	129	540	172	1,520	366	619	230
15	65	154	185	e164	206	130	511	175	898	398	454	217
16	166	219	156	e160	291	313	491	197	1,060	336	410	236
17	116	428	143	e158	263	300	479	209	951	323	377	234
18	97	304	134	e156	181	246	559	271	826	314	351	232
19	74	219	129	e152	193	277	665	286	1,280	431	331	208
20	70	161	247	e148	203	1,610	556	167	973	443	335	160
21	73	149	271	e146	204	684	509	290	731	357	364	157
22	73	143	203	e144	1,540	452	505	281	669	372	412	160
23	78	118	156	e142	788	384	483	256	626	496	361	478
24	78	111	221	e138	365	342	473	242	557	455	311	200
25	79	108	312	e136	239	317	475	376	467	336	274	226
26	92	105	185	e134	211	298	595	365	414	335	257	219
27	84	99	169	e132	228	283	467	231	440	356	247	224
28	95	96	171	e126	223	273	295	193	487	330	239	267
29	125	96	193	125	---	234	251	188	440	314	243	215
30	142	95	172	124	---	305	248	188	423	342	250	202
31	120	---	153	114	---	313	---	193	---	447	270	---
TOTAL	2,529	4,993	5,303	5,109	7,005	9,324	14,653	8,311	21,581	13,168	15,312	7,325
MEAN	81.6	166	171	165	250	301	488	268	719	425	494	244
MAX	166	503	351	237	1,540	1,610	1,400	422	1,520	717	2,000	529
MIN	59	87	91	114	110	129	187	167	183	314	239	157
†	+3	+27	+10	-3	+11	-5	0	+1	+9	-15	-10	+1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2003,*@ BY WATER YEAR (WY)

MEAN	147	154	175	197	220	259	268	218	202	168	169	148
MAX	543	327	479	424	463	571	677	405	719	425	514	630
(WY)	(1938)	(1980)	(1997)	(1978)	(1960)	(1993)	(1980)	(1949)	(2003)	(2003)	(1940)	(1979)
MIN	49.7	61.3	77.5	76.2	94.9	94.2	119	95.3	77.9	54.8	52.5	50.4
(WY)	(1964)	(1954)	(1998)	(1956)	(1956)	(1981)	(2002)	(2000)	(2002)	(1986)	(1981)	(1968)

02068500 DAN RIVER NEAR FRANCISCO, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1938 - 2003* [@]	
ANNUAL TOTAL	39,453		114,613		(UNADJUSTED)	
ANNUAL MEAN	108		314		194	
HIGHEST ANNUAL MEAN					314 2003	
LOWEST ANNUAL MEAN					93.6 2002	
HIGHEST DAILY MEAN	503	Nov 12	2,000	Aug 7	6,830	Sep 22, 1979
LOWEST DAILY MEAN	45	Sep 12	59	Oct 6	21	Sep 4, 1999
ANNUAL SEVEN-DAY MINIMUM	47	Sep 7	60	Oct 4	28	Aug 24, 1981
MAXIMUM PEAK FLOW			6,830	Aug 7	21,200	Aug 17, 1985
MAXIMUM PEAK STAGE			9.22	Aug 7	19.50	Aug 17, 1985
INSTANTANEOUS LOW FLOW			57	Oct 4	7.1	Sep 8, 1932
10 PERCENT EXCEEDS	164		568		320	
50 PERCENT EXCEEDS	99		234		154	
90 PERCENT EXCEEDS	58		98		80	

e Estimated.

† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs provided by city of Danville, Virginia.

* Regulated period only (1938-2003). See REMARKS.

[@] See PERIOD OF RECORD.

‡ Adjusted for change in contents.

