

PEE DEE RIVER BASIN

02112250 YADKIN RIVER AT ELKIN, NC

LOCATION.--Lat 36°14'30", long 80°50'49", Yadkin County, Hydrologic Unit 03040101, on right bank at downstream side of bridge on U.S. Highway 21 at Elkin, 0.3 mi downstream of Elkin River, and 362 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--869 mi².

PERIOD OF RECORD.--April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft above sea level. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation by W. Kerr Scott Reservoir (station 02111391). Maximum gage height for period of record, from graph based on hourly gage-height readings and floodmark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 ft³/s was measured on Sept. 19, 1956.

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	441	344	384	e454	594	557	1980	656	488	443	1050	550
2	423	359	371	e450	583	535	1600	708	518	433	1070	583
3	414	361	402	e448	570	531	1380	646	466	484	960	534
4	408	362	391	e446	571	634	1310	604	473	456	901	589
5	400	366	377	e444	569	650	1210	594	499	654	1050	526
6	398	355	392	e442	562	591	1110	606	572	483	656	477
7	393	351	403	e440	558	576	1060	590	566	431	620	459
8	388	362	392	e438	552	583	983	578	487	475	604	448
9	377	436	385	e436	565	576	883	585	473	553	591	467
10	373	878	395	e434	548	569	857	579	455	461	565	487
11	354	513	397	e434	501	561	835	573	444	466	628	517
12	346	433	383	e432	510	562	819	564	432	429	853	455
13	345	413	375	e432	510	629	834	561	422	437	710	437
14	354	392	452	e430	542	586	819	530	459	429	888	428
15	358	380	488	e430	540	647	797	516	486	459	689	427
16	351	377	496	e428	543	754	795	539	519	450	620	421
17	339	387	1280	e428	688	658	769	787	443	442	584	413
18	343	387	727	e480	608	628	763	651	415	404	592	373
19	342	391	591	1120	549	595	742	585	399	399	879	372
20	348	397	532	1740	531	588	676	593	376	457	935	463
21	352	376	507	912	525	e1650	774	1090	370	399	828	424
22	365	371	e490	706	528	1340	767	686	475	384	511	384
23	362	381	e480	646	530	1650	753	603	881	366	503	370
24	351	385	e485	654	533	1290	739	503	470	359	520	926
25	352	416	e480	641	638	1070	743	610	430	443	498	706
26	355	538	e475	621	735	879	763	657	730	781	507	446
27	359	454	e470	621	615	672	733	527	678	824	496	422
28	358	410	e466	606	581	654	675	482	459	777	527	410
29	359	397	e462	598	---	1390	665	509	403	825	495	409
30	351	389	e458	640	---	4610	658	480	400	2210	496	403
31	345	---	e456	636	---	2800	---	458	---	1630	522	---
TOTAL	11404	12361	14842	18067	15879	30015	27492	18650	14688	18243	21348	14326
MEAN	368	412	479	583	567	968	916	602	490	588	689	478
MAX	441	878	1280	1740	735	4610	1980	1090	881	2210	1070	926
MIN	339	344	371	428	501	531	658	458	370	359	495	370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	1108	1128	1217	1469	1607	1892	1844	1521	1360	1069	1130	980
MEAN	1108	1128	1217	1469	1607	1892	1844	1521	1360	1069	1130	980
MAX	2911	3871	2591	3129	2978	3885	4510	2887	2942	1922	3323	2910
(WY)	1991	1978	1974	1978	1990	1975	1980	1973	1975	1989	1994	1979
MIN	368	412	479	583	567	745	737	602	490	433	361	416
(WY)	2001	2001	2001	2001	2001	1988	1986	2001	2001	1988	1988	1988

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	261981	217315		
ANNUAL MEAN	716	595	1363	
HIGHEST ANNUAL MEAN			1951	1973
LOWEST ANNUAL MEAN			595	2001
HIGHEST DAILY MEAN	4210	Mar 21	4610	Mar 30
LOWEST DAILY MEAN	339	Oct 17	339	Oct 17
ANNUAL SEVEN-DAY MINIMUM	347	Oct 13	347	Oct 13
MAXIMUM PEAK FLOW			7450	Mar 30
MAXIMUM PEAK STAGE			9.85	Mar 30
INSTANTANEOUS LOW FLOW			330	Oct 17
10 PERCENT EXCEEDS	1150		865	
50 PERCENT EXCEEDS	590		509	
90 PERCENT EXCEEDS	377		373	
			21500	Aug 10 1970
			246	Aug 31 1981
			257	Aug 25 1981
			29100	Aug 17 1994
			24.88*	Apr 10 1983
			239	Aug 31 1981

e Estimated.

* See REMARKS.

02112250 YADKIN RIVER AT ELKIN, NC--Continued

