

## CAPE FEAR RIVER BASIN

02100500 DEEP RIVER AT RAMSEUR, NC

LOCATION.--Lat 35°43'34", long 79°39'20", Randolph County, Hydrologic Unit 03030003, on right bank 0.2 mi downstream of Main Street bridge in Ramseur, 0.5 mi downstream of mill dam, and 1.5 mi downstream of Sandy Creek.

DRAINAGE AREA.--349 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1922 to current year.

REVISED RECORDS.--WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by Oak Hollow Reservoir (station 02098495), High Point Municipal Lake (station 02099096), and small power plant reservoirs. Prior to January 1963, diurnal fluctuation caused by power plant immediately upstream from station. Town of Asheboro diverted an average of 8.4 ft<sup>3</sup>/s from Yadkin River Basin for water supply and discharged an average of 6.7 ft<sup>3</sup>/s of treated effluent upstream from the station. Maximum discharge for period of record from rating curve extended above 18,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow; gage height, 34.04 ft. Minimum discharge for period of record occurred frequently in 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mi upstream; discharge, 30,000 ft<sup>3</sup>/s.

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	121	63	55	65	134	176	2260	71	85	55	94	39
2	129	58	59	68	131	159	1950	85	373	30	71	40
3	41	58	66	72	118	147	755	83	208	45	65	40
4	46	58	87	68	76	578	587	83	108	88	58	40
5	96	61	56	65	72	728	410	81	91	601	e48	39
6	e46	58	58	74	90	493	322	76	69	178	e40	39
7	e44	59	64	75	89	310	289	73	69	105	e30	41
8	e42	64	68	88	85	219	250	61	86	69	33	40
9	e40	69	69	81	83	184	207	64	126	44	36	39
10	e60	76	67	92	84	158	211	68	104	41	37	39
11	e54	83	66	81	84	147	173	74	79	63	e80	36
12	58	76	68	75	95	143	163	74	57	64	e200	49
13	59	71	66	81	131	126	137	50	60	56	e160	49
14	58	78	68	83	176	152	127	65	215	51	122	43
15	57	124	73	84	190	171	131	68	180	45	66	39
16	61	102	83	78	140	603	150	58	94	41	51	37
17	58	82	253	70	2600	383	140	66	129	39	49	e34
18	63	69	260	74	1210	256	111	104	86	40	83	e32
19	76	81	156	92	472	179	108	98	69	39	237	32
20	64	134	120	722	302	174	109	64	60	39	116	33
21	54	63	77	622	241	1380	108	57	45	43	27	35
22	36	38	72	346	206	1170	98	79	42	41	e38	39
23	42	67	83	214	180	558	108	110	209	39	46	42
24	51	67	74	179	195	362	96	88	174	38	65	53
25	58	81	74	159	207	249	135	75	113	37	79	275
26	61	228	72	97	388	197	277	139	76	38	72	138
27	62	e188	71	109	308	178	180	371	84	146	55	63
28	56	137	75	119	203	158	167	191	85	126	50	46
29	56	72	75	78	---	506	113	136	84	100	47	37
30	54	67	74	74	---	4020	88	124	73	90	45	21
31	56	---	71	146	---	1100	---	89	---	121	44	---
TOTAL	1859	2532	2680	4331	8290	15364	9960	2925	3333	2552	2244	1529
MEAN	60.0	84.4	86.5	140	296	496	332	94.4	111	82.3	72.4	51.0
MAX	129	228	260	722	2600	4020	2260	371	373	601	237	275
MIN	36	38	55	65	72	126	88	50	42	30	27	21
CFSM	.17	.24	.25	.40	.85	1.42	.95	.27	.32	.24	.21	.15
IN.	.20	.27	.29	.46	.88	1.64	1.06	.31	.36	.27	.24	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2001, BY WATER YEAR (WY)

MEAN	207	213	340	555	655	646	494	289	211	219	203	241
MAX	1193	1237	1050	1660	1642	1842	1440	944	978	1434	896	1934
(WY)	1991	1986	1933	1937	1979	1975	1936	1978	1982	1975	1939	1928
MIN	8.69	14.1	39.1	40.8	131	144	116	71.3	48.1	36.5	32.4	17.7
(WY)	1942	1942	1934	1942	1931	1967	1967	1986	1933	1986	1956	1954

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1923 - 2001	
ANNUAL TOTAL	89360		57599		354	
ANNUAL MEAN	244		158		665	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					155	
HIGHEST DAILY MEAN	3330	Mar 17	4020	Mar 30	27800	Sep 18 1945
LOWEST DAILY MEAN	25	Jul 22	21	Sep 30	.70	Nov 29 1941
ANNUAL SEVEN-DAY MINIMUM	30	Jul 17	35	Sep 15	3.6	Oct 19 1941
MAXIMUM PEAK FLOW			5630		43000*	
MAXIMUM PEAK STAGE			10.08		34.04*	
INSTANTANEOUS LOW FLOW			20		.40*	
ANNUAL RUNOFF (CFSM)	.70		.45		1.02	
ANNUAL RUNOFF (INCHES)	9.52		6.14		13.79	
10 PERCENT EXCEEDS	547		254		681	
50 PERCENT EXCEEDS	116		78		150	
90 PERCENT EXCEEDS	48		40		37	

e Estimated.  
 \* See REMARKS.

