

Water-Data Report 2007

**02100500 DEEP RIVER AT RAMSEUR, NC**

Cape Fear Basin  
Deep Subbasin

LOCATION.--Lat 35°43'35", long 79°39'20" referenced to North American Datum of 1983, Randolph County, NC, 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>.

**SURFACE-WATER RECORDS**

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 NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow slightly regulated by Oak Hollow Reservoir, High Point Municipal Lake, 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 8.0 ft<sup>3</sup>/s from Yadkin River Basin for water supply and discharged an average of 5.6 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.

## 02100500 DEEP RIVER AT RAMSEUR, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	185	188	342	318	301	343	191	129	103	76	95	45
2	183	179	356	383	363	1,990	162	142	102	91	93	46
3	183	179	309	320	338	703	162	116	119	84	82	45
4	183	173	290	300	288	417	174	128	153	56	55	44
5	182	180	275	305	283	373	166	140	119	49	77	38
6	183	182	e270	562	284	369	159	160	113	46	68	44
7	180	231	e260	488	281	366	177	157	125	62	55	45
8	198	455	256	1,810	277	353	147	98	111	67	57	44
9	192	317	253	786	271	326	123	125	104	67	57	40
10	189	236	249	461	269	340	143	127	94	67	49	38
11	188	212	248	380	258	342	162	123	93	85	32	37
12	185	522	251	342	265	337	784	147	106	114	11	36
13	183	367	241	332	279	341	364	170	114	103	11	35
14	181	259	249	324	1,950	346	259	138	111	100	37	40
15	171	227	245	319	683	333	3,100	123	163	98	74	41
16	180	1,180	240	315	429	421	2,930	115	165	91	66	45
17	231	717	247	307	368	621	712	114	212	86	59	53
18	469	335	228	305	341	397	365	116	140	86	56	51
19	239	269	240	321	319	327	313	116	188	83	45	48
20	196	247	232	313	319	333	283	115	152	92	36	42
21	190	323	232	309	331	324	265	113	135	90	30	35
22	190	5,030	324	607	328	316	241	113	131	90	15	35
23	185	1,950	651	490	298	314	215	112	85	90	40	36
24	182	635	368	390	277	312	210	111	113	89	50	36
25	179	433	1,400	352	387	309	203	109	133	86	36	38
26	186	366	1,160	324	716	299	205	109	132	88	35	37
27	186	332	491	313	427	301	209	107	122	89	43	36
28	248	317	362	309	368	296	268	91	120	89	45	37
29	226	305	329	301	---	222	186	85	113	84	43	37
30	197	298	303	298	---	196	133	109	72	104	45	37
31	197	---	292	290	---	182	---	105	---	109	47	---
<b>Total</b>	6,247	16,644	11,193	12,974	11,298	12,449	13,011	3,763	3,743	2,611	1,544	1,221
<b>Mean</b>	202	555	361	419	404	402	434	121	125	84.2	49.8	40.7
<b>Max</b>	469	5,030	1,400	1,810	1,950	1,990	3,100	170	212	114	95	53
<b>Min</b>	171	173	228	290	258	182	123	85	72	46	11	35
<b>Cfsm</b>	0.58	1.59	1.03	1.20	1.16	1.15	1.24	0.35	0.36	0.24	0.14	0.12
<b>In.</b>	0.67	1.77	1.19	1.38	1.20	1.33	1.39	0.40	0.40	0.28	0.16	0.13

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	210	220	346	538	635	638	492	284	215	219	204	251
<b>Max</b>	1,193	1,237	1,050	1,660	1,642	1,842	1,493	944	978	1,434	896	1,934
<b>(WY)</b>	(1991)	(1986)	(1933)	(1937)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(1939)	(1928)
<b>Min</b>	8.69	14.1	39.1	40.8	119	143	97.8	45.6	48.1	36.5	32.4	17.7
<b>(WY)</b>	(1942)	(1942)	(1934)	(1942)	(2002)	(2006)	(2002)	(2002)	(1933)	(1986)	(1956)	(1954)

02100500 DEEP RIVER AT RAMSEUR, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1923 - 2007	
<b>Annual total</b>	83,489		96,698			
<b>Annual mean</b>	229		265		353	
<b>Highest annual mean</b>					875	2003
<b>Lowest annual mean</b>					116	2002
<b>Highest daily mean</b>	5,030	Nov 22	5,030	Nov 22	27,800	Sep 18, 1945
<b>Lowest daily mean</b>	29	Sep 6	11	Aug 12	0.70	Nov 29, 1941
<b>Annual seven-day minimum</b>	47	Aug 24	35	Aug 20	3.6	Oct 19, 1941
<b>Maximum peak flow</b>			7,050	Nov 22	<sup>a</sup> 43,000	Sep 18, 1945
<b>Maximum peak stage</b>			12.08	Nov 22	<sup>a</sup> 34.04	Sep 18, 1945
<b>Instantaneous low flow</b>			9.8	Aug 12	<sup>a</sup> 0.40	May 27, 1941
<b>Annual runoff (cfsm)</b>	0.655		0.759		1.01	
<b>Annual runoff (inches)</b>	8.90		10.31		13.73	
<b>10 percent exceeds</b>	359		388		678	
<b>50 percent exceeds</b>	180		185		151	
<b>90 percent exceeds</b>	80		45		37	

<sup>a</sup> See Remarks.

