

Water-Data Report 2008

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 mi².

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 7.6 ft³/s from Yadkin River Basin for water supply and discharged an average of 5.8 ft³/s of treated effluent upstream from the station. Maximum discharge for period of record from rating curve extended above 18,000 ft³/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 ft³/s.

02100500 DEEP RIVER AT RAMSEUR, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	38	69	45	298	188	73	366	544	52	70	33	229
2	37	60	45	166	401	88	438	397	37	48	38	183
3	38	34	45	107	175	75	335	282	45	51	71	130
4	40	24	44	e75	108	91	548	209	73	33	60	81
5	39	23	46	78	84	958	1,890	183	87	e55	49	84
6	39	23	49	78	90	385	1,600	150	78	e70	37	452
7	38	22	45	74	88	277	1,180	124	70	e193	49	500
8	38	28	91	60	96	530	795	99	75	44	55	187
9	38	35	97	46	83	350	596	125	65	56	45	156
10	39	54	85	39	80	343	483	144	76	75	41	601
11	39	53	48	39	61	310	420	120	67	61	36	996
12	37	55	47	65	53	268	299	496	67	62	35	445
13	37	57	44	59	106	196	337	193	69	64	48	224
14	37	62	43	55	146	241	319	113	71	64	58	185
15	36	59	77	70	116	145	216	95	53	83	74	141
16	35	57	82	62	120	617	212	112	60	56	70	114
17	34	29	70	48	115	471	195	147	69	44	52	801
18	32	36	28	153	86	310	193	129	65	41	31	534
19	28	45	62	129	71	294	187	116	57	32	26	368
20	13	105	64	98	79	389	154	147	62	50	27	174
21	11	58	66	85	76	363	532	205	42	66	44	153
22	12	55	65	77	80	261	543	165	58	42	46	134
23	21	54	50	63	85	277	448	90	65	92	45	107
24	51	51	42	67	87	180	338	86	52	89	47	83
25	98	52	35	68	79	211	219	84	56	77	61	83
26	654	53	41	62	83	193	254	72	56	53	64	138
27	861	56	23	61	171	177	213	70	44	33	3,220	367
28	276	54	43	65	151	182	1,150	71	44	26	4,300	268
29	89	48	100	64	94	166	1,570	124	65	50	1,370	227
30	54	46	403	62	---	172	821	99	70	60	651	139
31	85	---	810	60	---	135	---	82	---	47	421	---
Total	2,924	1,457	2,835	2,533	3,252	8,728	16,851	5,073	1,850	1,887	11,204	8,284
Mean	94.3	48.6	91.5	81.7	112	282	562	164	61.7	60.9	361	276
Max	861	105	810	298	401	958	1,890	544	87	193	4,300	996
Min	11	22	23	39	53	73	154	70	37	26	26	81
Cfs/m	0.27	0.14	0.26	0.23	0.32	0.81	1.61	0.47	0.18	0.17	1.04	0.79
In.	0.31	0.16	0.30	0.27	0.35	0.93	1.80	0.54	0.20	0.20	1.19	0.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	208	218	343	533	629	633	493	283	214	217	206	251
Max	1,193	1,237	1,050	1,660	1,642	1,842	1,493	944	978	1,434	896	1,934
(WY)	(1991)	(1986)	(1933)	(1937)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(1939)	(1928)
Min	8.69	14.1	39.1	40.8	112	143	97.8	45.6	48.1	36.5	32.4	17.7
(WY)	(1942)	(1942)	(1934)	(1942)	(2008)	(2006)	(2002)	(2002)	(1933)	(1986)	(1956)	(1954)

02100500 DEEP RIVER AT RAMSEUR, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1923 - 2008	
Annual total	69,830		66,878			
Annual mean	191		183		351	
Highest annual mean					875	2003
Lowest annual mean					116	2002
Highest daily mean	3,100	Apr 15	4,300	Aug 28	27,800	Sep 18, 1945
Lowest daily mean	11	Aug 12	11	Oct 21	0.70	Nov 29, 1941
Annual seven-day minimum	22	Oct 17	22	Oct 17	3.6	Oct 19, 1941
Maximum peak flow			8,470	Aug 27	^a 43,000	Sep 18, 1945
Maximum peak stage			14.00	Aug 27	^a 34.04	Sep 18, 1945
Instantaneous low flow			10	Oct 21	^a 0.40	May 27, 1941
Annual runoff (cfs)	0.548		0.524		1.01	
Annual runoff (inches)	7.44		7.13		13.66	
10 percent exceeds	364		408		674	
50 percent exceeds	103		75		150	
90 percent exceeds	37		37		37	

^aSee Remarks.