

Water-Data Report 2010

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 National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

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 6.6 ft³/s from Yadkin River Basin for water supply and discharged an average of 6.1 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. Minimum discharge for current water year also occurred on October 13.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	65	306	284	379	378	273	641	92	512	89	68	36
2	65	394	545	338	417	e221	478	86	389	63	57	41
3	60	351	2,520	299	1,520	e428	325	88	216	36	41	39
4	39	234	1,030	179	1,700	539	282	86	218	43	73	31
5	42	197	656	210	3,930	474	247	91	181	49	57	32
6	49	90	575	e189	7,410	338	215	92	157	63	39	43
7	67	126	443	179	2,440	347	197	89	144	55	67	44
8	66	85	375	181	1,340	157	182	70	88	35	56	52
9	54	41	2,150	e200	899	242	203	67	82	41	45	47
10	29	66	1,710	e180	816	223	303	77	79	62	35	29
11	67	2,280	848	e165	622	217	257	74	68	52	49	58
12	47	6,200	544	150	492	263	190	70	54	35	171	48
13	46	4,830	462	127	422	1,280	179	77	191	68	664	42
14	69	1,800	560	104	411	1,120	166	68	169	125	481	54
15	59	906	495	122	350	709	151	76	482	135	248	40
16	45	563	427	126	396	553	118	78	399	125	170	41
17	60	398	e350	1,280	386	388	146	256	300	108	154	39
18	38	245	302	1,510	290	332	112	1,450	248	306	130	45
19	53	217	574	864	272	294	111	1,490	134	283	70	36
20	61	248	624	589	264	244	115	656	136	171	110	31
21	54	183	543	481	238	197	103	420	85	136	155	47
22	51	118	469	866	278	222	128	270	68	144	138	48
23	61	813	384	661	524	219	128	828	75	127	98	61
24	52	1,040	348	505	443	209	114	1,060	62	69	70	39
25	26	627	1,640	5,400	533	185	147	666	67	61	89	55
26	44	453	3,560	3,370	458	e183	179	479	e51	59	106	30
27	72	526	1,540	1,460	359	e168	167	299	e53	26	69	85
28	181	477	897	829	277	e171	147	202	e62	106	59	70
29	99	360	594	568	---	e849	112	437	e86	106	53	71
30	81	232	447	528	---	e1,910	98	438	141	80	34	3,650
31	70	---	343	497	---	e1,300	---	299	---	67	41	---
Total	1,872	24,406	26,239	22,536	27,865	14,255	5,941	10,531	4,997	2,925	3,697	4,984
Mean	60.4	814	846	727	995	460	198	340	167	94.4	119	166
Max	181	6,200	3,560	5,400	7,410	1,910	641	1,490	512	306	664	3,650
Min	26	41	284	104	238	157	98	67	51	26	34	29
Cfsm	0.17	2.33	2.43	2.08	2.85	1.32	0.57	0.97	0.48	0.27	0.34	0.48
In.	0.20	2.60	2.80	2.40	2.97	1.52	0.63	1.12	0.53	0.31	0.39	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	205	223	350	533	627	633	488	282	215	214	203	248
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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1923 - 2010	
Annual total	125,236.4		150,248			
Annual mean	343		412		350	
Highest annual mean					875	2003
Lowest annual mean					116	2002
Highest daily mean	6,200	Nov 12	7,410	Feb 6	27,800	Sep 18, 1945
Lowest daily mean	8.4	Sep 7	26	Oct 25	0.70	Nov 29, 1941
Annual seven-day minimum	37	Sep 6	36	Aug 30	3.6	Oct 19, 1941
Maximum peak flow			10,800	Feb 6	^a 43,000	Sep 18, 1945
Maximum peak stage			17.07	Feb 6	^a 34.04	Sep 18, 1945
Instantaneous low flow			^a 11	Oct 6	^a 0.40	May 27, 1941
Annual runoff (cfsm)	0.983		1.18		1.00	
Annual runoff (inches)	13.35		16.01		13.64	
10 percent exceeds	781		855		674	
50 percent exceeds	141		171		150	
90 percent exceeds	47		45		37	

^a See Remarks.

