



Water-Data Report 2010

02112360 MITCHELL RIVER NEAR STATE ROAD, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°18'41", long 80°48'26" referenced to North American Datum of 1983, Surry County, NC, Hydrologic Unit 03040101, on right bank 280 ft upstream from bridge on Secondary Road 1001, 1.8 mi upstream from Grass Creek, and 3.3 mi east of State Road.

DRAINAGE AREA.--78.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1964 to current year. Occasional low-flow measurements, water years 1952-58, 1963.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 927.12 ft above NGVD of 1929. Prior to August 29, 1964, nonrecording gage at same site and datum. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year affected by regulation of unknown origin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident; estimated discharge, 9,000 ft³/s. A discharge of 16 ft³/s was measured on September 19, 1956.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	67	147	89	158	178	167	189	115	115	77	168	65
2	65	111	224	149	212	170	173	113	133	72	111	63
3	64	92	341	141	245	171	168	144	123	70	102	62
4	61	83	172	152	217	162	164	128	125	69	97	59
5	62	78	158	150	342	156	160	114	113	67	126	58
6	63	75	139	139	559	152	157	110	102	65	125	58
7	64	73	125	124	299	150	154	106	96	62	94	57
8	59	72	121	118	259	149	166	104	91	61	85	58
9	58	70	521	120	235	148	228	99	95	65	81	64
10	58	78	243	136	223	149	165	99	96	72	86	57
11	58	350	175	136	201	157	157	104	90	63	92	58
12	59	387	150	112	194	181	153	106	93	146	88	62
13	62	214	188	128	189	399	149	102	129	165	77	57
14	65	150	172	113	181	254	145	99	103	128	77	53
15	81	126	148	99	186	215	144	128	106	89	99	51
16	71	113	133	100	178	189	140	147	109	87	83	50
17	65	104	125	399	171	177	136	330	97	89	80	49
18	61	112	128	236	168	171	132	182	88	82	134	49
19	60	173	152	185	166	166	131	144	86	85	107	49
20	60	140	126	169	167	165	130	126	105	77	130	48
21	59	123	122	179	173	163	151	118	87	71	96	47
22	59	113	120	193	189	352	134	130	84	68	95	48
23	59	119	119	163	198	254	130	124	81	68	82	48
24	73	113	119	331	198	215	128	114	80	65	80	46
25	70	105	671	1,550	189	196	150	121	82	62	93	45
26	62	101	463	389	177	212	132	110	83	59	82	65
27	67	97	269	279	172	183	126	104	81	148	80	170
28	136	93	219	237	171	198	124	105	137	181	75	230
29	87	91	187	211	---	276	119	105	85	120	72	91
30	77	91	170	226	---	207	117	99	79	88	70	107
31	78	---	164	191	---	201	---	98	---	97	67	---
Total	2,090	3,794	6,253	7,013	6,037	6,105	4,452	3,828	2,974	2,718	2,934	2,024
Mean	67.4	126	202	226	216	197	148	123	99.1	87.7	94.6	67.5
Max	136	387	671	1,550	559	399	228	330	137	181	168	230
Min	58	70	89	99	166	148	117	98	79	59	67	45
Cfsm	0.86	1.60	2.56	2.87	2.74	2.50	1.88	1.57	1.26	1.11	1.20	0.86
In.	0.99	1.79	2.95	3.31	2.85	2.88	2.10	1.81	1.40	1.28	1.39	0.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	103	104	116	130	139	163	163	140	124	106	100	102
Max	248	211	230	232	258	373	426	264	280	260	247	313
(WY)	(1991)	(1980)	(1974)	(1998)	(1966)	(1993)	(1983)	(1973)	(2003)	(2003)	(1970)	(1979)
Min	32.7	32.0	47.0	48.3	54.2	70.4	69.1	52.0	31.0	35.9	24.6	37.9
(WY)	(2002)	(2002)	(1989)	(1981)	(2002)	(2008)	(1981)	(2002)	(2002)	(1986)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010	
Annual total	43,237		50,222			
Annual mean	118		138		124	
Highest annual mean					182	2003
Lowest annual mean					51.5	2002
Highest daily mean	1,190	May 27	1,550	Jan 25	3,260	Aug 10, 1970
Lowest daily mean	45	Sep 6	45	Sep 25	14	Aug 21, 2008
Annual seven-day minimum	47	Sep 2	47	Sep 19	14	Aug 19, 2008
Maximum peak flow			3,480	Jan 25	7,470	Sep 22, 1979
Maximum peak stage			7.75	Jan 25	16.42	Sep 22, 1979
Instantaneous low flow			^a 43	Sep 25	12	Aug 15, 2002
Annual runoff (cfsm)	1.50		1.75		1.58	
Annual runoff (inches)	20.41		23.71		21.41	
10 percent exceeds	187		214		198	
50 percent exceeds	89		119		100	
90 percent exceeds	62		62		52	

^a See Remarks.

