

Water-Data Report 2007

02113000 FISHER RIVER NEAR COPELAND, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°20'28", long 80°41'09" referenced to North American Datum of 1983, Surry County, NC, Hydrologic Unit 03040101, on left bank 500 ft upstream from bridge on North Carolina Highway 268, 1 mi upstream from Cody Creek, and 2 mi northwest of Copeland.

DRAINAGE AREA.--128 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 1303: 1933(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 909.90, North American Vertical Datum of 1988. Prior to September 5, 1936, twice daily readings at same site, elevation of 913 ft. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor.. Some irrigation diversions at times in the growing season.

Maximum discharge for period of record, from rating curve extended above 7,500 ft³/s on basis of slope-area measurement of peak flow, gage height, 18.4 ft. Minimum discharge for period of record also occurred September 13, 14, 2002. Minimum discharge for current water year also occurred September 13, 14.

02113000 FISHER RIVER NEAR COPELAND, 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	66	90	203	2,230	170	201	148	138	84	117	68	69
2	63	103	201	558	174	2,240	149	136	82	85	57	e58
3	58	90	173	377	170	420	138	134	212	75	51	e47
4	58	82	164	327	166	266	137	138	228	72	87	e40
5	65	80	156	374	162	218	128	140	118	72	62	e34
6	262	78	151	357	e160	199	128	139	100	77	61	30
7	111	99	148	337	e158	182	129	129	90	67	55	29
8	144	405	142	1,370	160	173	126	126	85	65	70	28
9	115	209	139	436	157	163	125	126	81	62	50	27
10	88	148	139	341	156	158	125	123	78	62	45	26
11	79	127	138	302	154	156	132	122	76	96	41	24
12	76	153	136	282	154	147	202	156	80	73	53	25
13	68	125	137	261	177	145	145	130	75	62	41	24
14	64	114	135	248	494	143	138	116	86	62	36	403
15	63	107	132	238	229	141	323	112	90	61	34	233
16	63	2,690	131	228	196	769	427	110	100	57	32	87
17	99	624	129	214	183	447	232	113	89	70	32	63
18	144	350	126	209	179	256	197	107	77	71	33	55
19	92	274	136	210	169	213	189	98	69	61	29	51
20	115	243	134	203	165	196	192	96	115	53	28	48
21	102	205	134	201	175	188	176	94	76	50	27	47
22	85	224	529	223	169	178	168	92	64	47	32	49
23	79	253	797	209	156	171	163	92	63	46	47	49
24	73	202	316	196	154	167	159	91	67	52	41	46
25	71	185	661	191	183	161	157	87	121	122	36	44
26	68	177	580	184	213	156	153	86	90	87	33	43
27	78	168	344	182	180	153	176	88	69	74	44	41
28	319	161	287	182	170	149	157	83	75	98	36	39
29	153	157	259	174	---	157	150	80	134	70	32	35
30	115	156	244	173	---	152	143	77	185	66	35	36
31	98	---	245	171	---	147	---	80	---	62	46	---
Total	3,134	8,079	7,346	11,188	5,133	8,612	5,112	3,439	2,959	2,194	1,374	1,830
Mean	101	269	237	361	183	278	170	111	98.6	70.8	44.3	61.0
Max	319	2,690	797	2,230	494	2,240	427	156	228	122	87	403
Min	58	78	126	171	154	141	125	77	63	46	27	24
Cfsm	0.79	2.10	1.85	2.82	1.43	2.17	1.33	0.87	0.77	0.55	0.35	0.48
In.	0.91	2.35	2.13	3.25	1.49	2.50	1.49	1.00	0.86	0.64	0.40	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2007, BY WATER YEAR (WY)

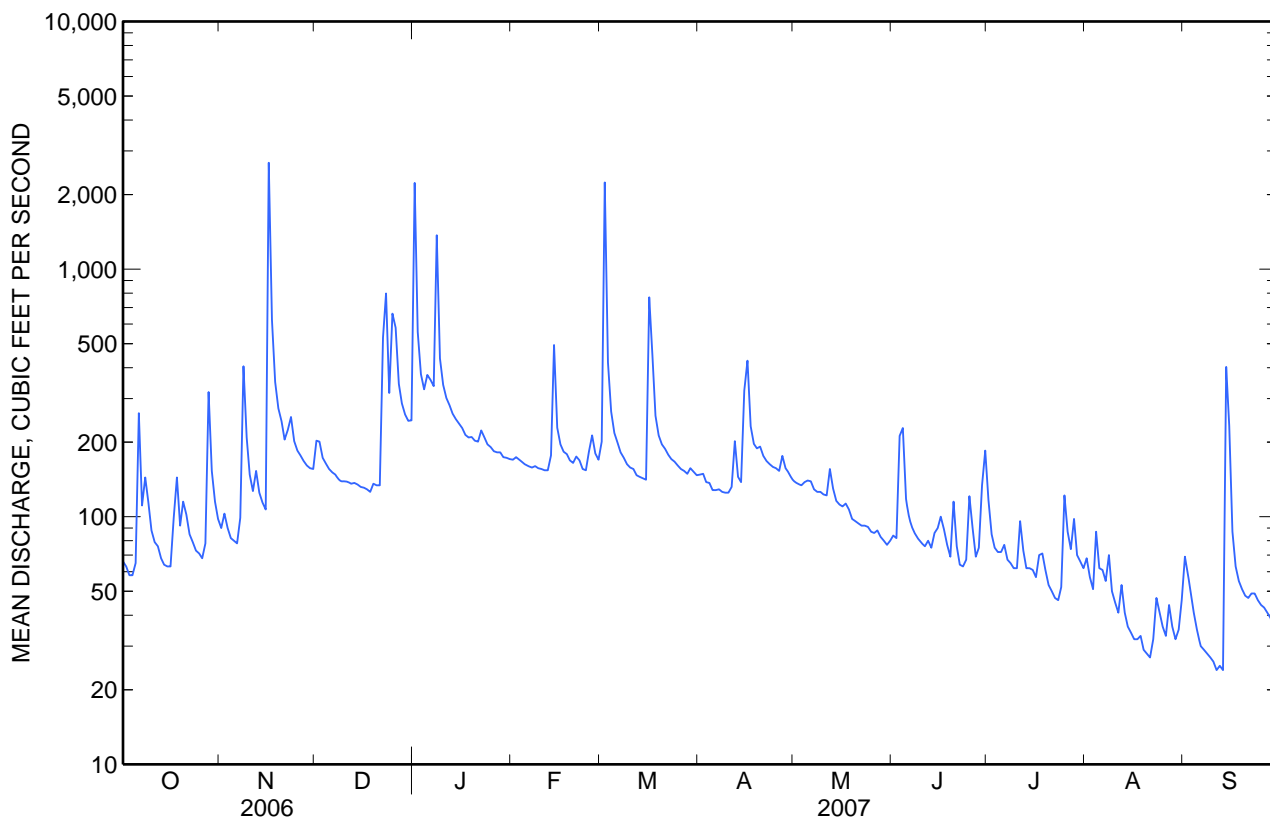
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	145	151	169	202	213	245	240	191	176	148	149	142
Max	580	344	365	526	539	667	746	387	491	397	510	735
(WY)	(1938)	(1935)	(1974)	(1936)	(1960)	(1993)	(1983)	(1950)	(1947)	(1943)	(1940)	(1979)
Min	40.2	48.1	58.1	54.4	68.8	103	102	61.7	29.7	31.3	24.1	27.9
(WY)	(1942)	(2002)	(1956)	(1956)	(1934)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(1954)

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1932 - 2007	
Annual total	54,364		60,400			
Annual mean	149		165		181	
Highest annual mean					281	1979
Lowest annual mean					73.6	2002
Highest daily mean	2,690	Nov 16	2,690	Nov 16	12,100	Sep 22, 1979
Lowest daily mean	40	Jun 23	24	Sep 11	11	Sep 12, 2002
Annual seven-day minimum	44	Jun 18	26	Sep 7	14	Sep 8, 2002
Maximum peak flow			4,910	Mar 2	^a 34,200	Sep 22, 1979
Maximum peak stage			9.22	Mar 2	19.61	Sep 22, 1979
Instantaneous low flow			^a 23	Sep 11	^a 10	Sep 12, 2002
Annual runoff (cfsm)	1.16		1.29		1.41	
Annual runoff (inches)	15.80		17.55		19.19	
10 percent exceeds	213		260		288	
50 percent exceeds	111		129		135	
90 percent exceeds	66		46		65	

^a See Remarks.



02113000 FISHER RIVER NEAR COPELAND, NC—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2002 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.13	0.11	0.06	1.31	0.05	1.38	0.00	0.00	0.00	0.00	0.00	---
2	0.00	0.19	0.00	0.00	0.01	0.57	0.00	0.00	0.00	0.00	0.00	---
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.42	0.00	0.00	---
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	---
5	0.97	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.04	0.60	0.00	---
6	0.08	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00
7	0.00	0.87	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.27	0.26	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00
11	0.09	0.28	0.00	0.00	0.00	0.00	0.76	0.00	0.02	0.02	0.00	0.00
12	0.01	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	1.59	0.01
13	0.00	0.00	0.05	0.00	1.47	0.00	0.01	0.00	0.14	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.02	0.00	0.46	0.00	0.00	0.00	0.00	4.70
15	0.00	0.68	0.00	0.00	0.00	0.00	1.02	0.00	0.03	0.00	0.00	0.00
16	0.01	1.66	0.00	0.00	0.00	1.52	0.00	0.10	0.01	0.00	0.00	0.00
17	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.52	0.26	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
19	0.10	0.00	0.00	0.02	0.00	0.00	0.12	0.00	0.06	0.00	0.00	0.00
20	0.26	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.01	0.00	0.00
21	0.00	0.26	0.06	0.27	0.11	0.03	0.00	0.00	0.00	0.00	0.12	0.00
22	0.00	0.54	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.58	0.00	0.00
25	0.00	0.00	1.20	0.00	0.44	0.00	0.00	0.00	0.57	0.25	0.00	0.00
26	0.00	0.00	0.09	0.00	0.01	0.00	0.05	0.00	0.01	0.00	0.00	0.00
27	1.22	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.01	0.04	0.00	0.01
28	0.19	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.05	0.03	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.19	0.00	0.00	0.66	0.00	0.00	0.00
30	0.00	0.02	0.00	0.00	---	0.00	0.00	0.02	0.16	0.00	0.08	0.00
31	0.00	---	0.79	0.00	---	0.00	---	0.07	---	0.00	0.00	---
Total	4.31	4.87	3.38	3.63	2.11	3.79	2.97	0.35	4.12	2.66	2.06	---

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

