

Water-Data Report 2008

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 and crest-stage gage. Datum of gage is 909.9, 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.--No estimated daily discharges. Records good. 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 August 25, 26.

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	114	67	188	178	78	103	173	67	52	54	58
2	35	103	68	150	192	77	96	157	65	41	36	52
3	35	96	67	124	130	75	92	143	62	37	30	47
4	34	91	65	135	126	80	136	137	64	38	30	43
5	36	86	65	129	142	159	137	128	61	60	25	40
6	37	84	65	104	134	115	1,060	121	55	88	24	39
7	37	78	64	100	177	163	366	113	53	87	23	37
8	36	76	63	95	143	254	245	118	53	62	28	36
9	33	76	66	93	127	185	203	221	51	61	27	172
10	38	77	66	95	114	149	181	130	61	75	24	127
11	30	75	64	109	104	133	166	125	51	63	21	114
12	27	74	63	102	102	123	162	155	57	51	17	84
13	27	74	65	93	122	112	151	118	62	44	17	74
14	32	78	64	88	115	107	140	108	129	91	21	64
15	33	79	64	82	100	109	136	108	116	56	23	57
16	30	73	125	79	97	126	129	119	67	44	34	95
17	31	71	99	87	94	103	125	111	54	40	27	90
18	32	72	76	101	103	96	121	101	48	36	21	63
19	34	70	72	96	98	102	120	99	46	34	19	55
20	37	68	69	89	89	255	182	94	43	34	17	53
21	38	68	77	79	91	156	178	90	42	33	16	50
22	35	68	79	99	86	136	149	85	45	28	15	50
23	35	67	122	81	86	123	137	80	63	28	15	46
24	49	64	206	78	84	113	130	81	47	59	17	45
25	613	67	127	72	81	106	124	79	39	40	15	42
26	2,800	77	117	74	87	102	118	75	35	32	20	68
27	777	89	109	73	94	100	144	72	39	32	487	797
28	261	76	118	71	80	96	408	78	52	30	265	328
29	178	70	308	70	77	97	303	88	48	32	128	166
30	145	68	268	74	---	99	202	75	90	33	83	122
31	126	---	323	70	---	102	---	71	---	62	64	---
Total	5,727	2,329	3,271	2,980	3,253	3,831	5,944	3,453	1,765	1,503	1,643	3,114
Mean	185	77.6	106	96.1	112	124	198	111	58.8	48.5	53.0	104
Max	2,800	114	323	188	192	255	1,060	221	129	91	487	797
Min	27	64	63	70	77	75	92	71	35	28	15	36
Cfsm	1.44	0.61	0.82	0.75	0.88	0.97	1.55	0.87	0.46	0.38	0.41	0.81
In.	1.66	0.68	0.95	0.87	0.95	1.11	1.73	1.00	0.51	0.44	0.48	0.91

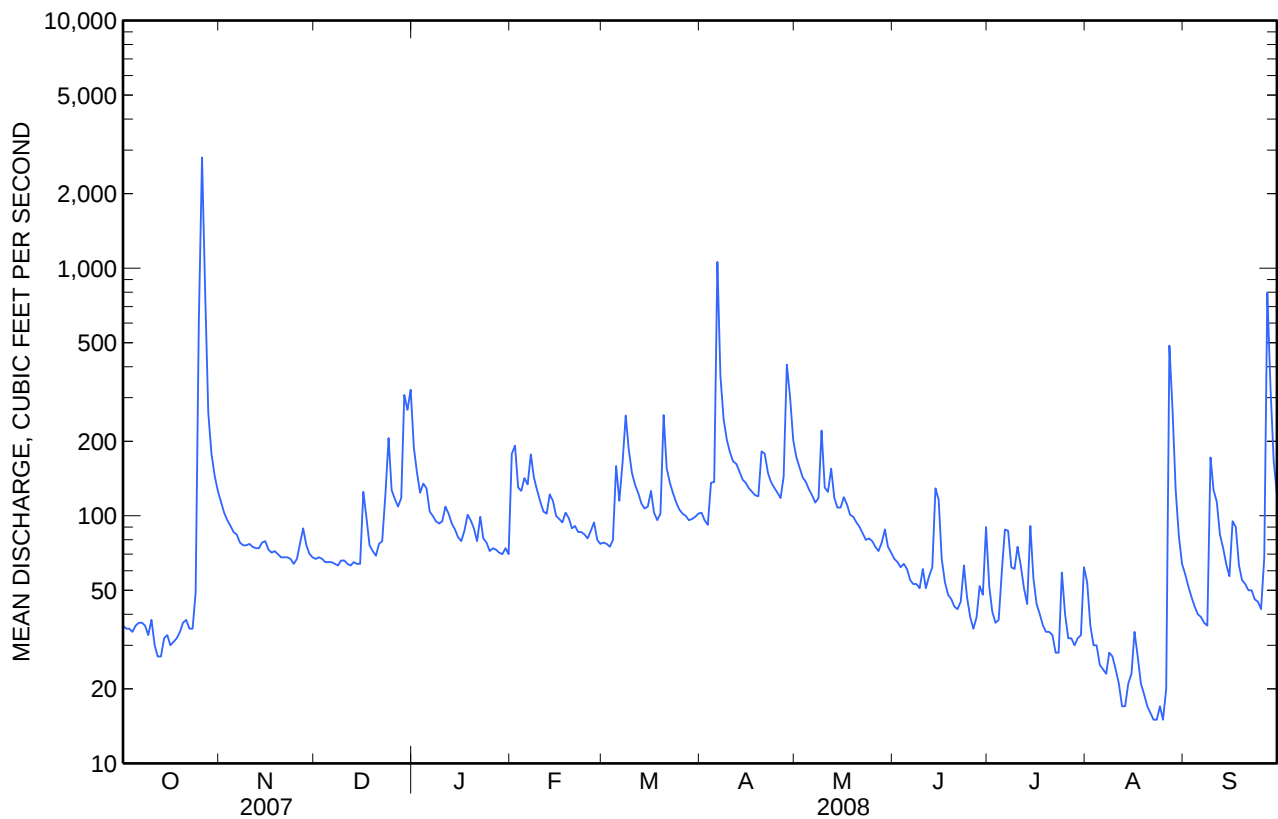
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	145	150	168	200	211	244	240	190	174	147	148	141
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 2007		Water Year 2008		Water Years 1932 - 2008	
Annual total	53,168		38,813			
Annual mean	146		106		180	
Highest annual mean					281	1979
Lowest annual mean					73.6	2002
Highest daily mean	2,800	Oct 26	2,800	Oct 26	12,100	Sep 22, 1979
Lowest daily mean	24	Sep 11	15	Aug 22	11	Sep 12, 2002
Annual seven-day minimum	26	Sep 7	16	Aug 19	14	Sep 8, 2002
Maximum peak flow			4,130	Oct 26	^a 34,200	Sep 22, 1979
Maximum peak stage			8.30	Oct 26	19.61	Sep 22, 1979
Instantaneous low flow			^a 14	Aug 23	^a 10	Sep 12, 2002
Annual runoff (cfs)	1.14		0.828		1.40	
Annual runoff (inches)	15.45		11.28		19.09	
10 percent exceeds	228		162		286	
50 percent exceeds	90		78		134	
90 percent exceeds	36		33		65	

^aSee 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 may be poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	1.27	0.00	0.07	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00
3	0.00	0.00	0.01	0.00	0.13	0.00	0.60	0.00	0.03	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.32	0.50	0.30	0.01	0.00	0.82	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.57	0.00	0.00	1.90	0.00	0.00
6	0.00	0.02	0.00	0.00	0.17	0.00	0.70	0.00	0.00	0.10	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.01	0.01	0.00
8	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.82	0.00	0.08	0.00	0.00
9	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.04	0.69	0.00	0.20
10	0.01	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.09
11	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.01
12	0.00	0.00	0.00	0.00	0.03	0.00	0.18	0.00	0.00	0.00	0.00	0.02
13	0.00	0.03	0.01	0.00	0.55	0.00	0.00	0.00	0.00	0.09	0.06	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.02	0.24	0.00
15	0.00	0.15	0.49	0.00	0.00	0.33	0.00	0.02	0.00	0.00	0.41	0.00
16	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.88
17	0.00	0.00	0.00	0.12	0.09	0.00	0.00	0.00	0.00	0.00	0.04	0.00
18	0.00	0.00	0.00	0.32	0.05	0.00	0.00	0.08	0.00	0.00	0.00	0.00
19	0.07	0.00	0.00	0.00	0.00	0.42	0.52	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00
21	0.00	0.00	0.23	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.04	0.00	0.00	0.00
23	0.06	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
24	0.66	0.00	0.00	0.00	0.03	0.00	0.00	0.08	0.00	0.00	0.00	0.00
25	2.96	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	1.81	0.15	0.38	0.00	0.29	0.00	0.01	0.00	0.08	0.00	1.53	2.91
27	0.01	0.01	0.00	0.00	0.00	0.00	0.95	0.00	0.78	0.00	2.13	0.34
28	0.00	0.00	0.94	0.00	0.00	0.00	0.25	0.12	0.00	0.02	0.01	0.00
29	0.00	0.00	0.02	0.04	0.00	0.06	0.00	0.00	0.31	1.07	0.00	0.00
30	0.00	0.00	0.83	0.06	---	0.05	0.00	0.00	0.16	0.00	0.00	0.03
31	0.00	---	0.01	0.00	---	0.32	---	0.00	---	0.62	0.00	---
Total	5.61	0.43	3.69	1.17	2.96	2.51	4.28	2.03	1.67	5.95	5.18	4.49

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

