

PEE DEE RIVER BASIN

02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, Hydrologic Unit 03040101, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mi upstream from Warrior Creek, 0.5 mi south of Patterson, 2.0 mi downstream of Walnut Branch, and at mile 416.

DRAINAGE AREA.--28.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1940(M), 1947-48(M). WSP 1553: 1948(P). WDR NC-80-1: 1975(P), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft above NGVD of 1929. Prior to Feb. 9, 1940, nonrecording gage at present site, at datum 1,212.47 ft. Feb. 9, 1940, to Oct. 20, 1970, recording gage at present site, at datum 1,212.47 ft. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge, for period of record, from rating curve extended above 1,400 ft³/s on basis of computation of peak flow over dam 1 mi upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft. Minimum discharge for current water year also occurred Sept. 11, 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	16	20	28	19	45	23	14	12	7.7	7.8
2	12	12	14	19	25	28	39	23	13	12	7.2	7.1
3	11	11	13	19	25	37	37	24	12	29	7.0	6.3
4	11	11	13	19	24	26	33	25	13	15	6.7	6.5
5	11	11	12	e18	23	24	32	24	34	12	6.3	5.7
6	11	11	12	e18	24	23	30	22	18	10	6.0	5.1
7	11	11	12	e18	47	23	28	22	16	9.0	5.6	4.8
8	11	11	12	e19	47	22	28	26	14	8.5	5.5	4.7
9	11	11	12	19	36	22	37	21	13	8.1	5.5	4.3
10	11	11	24	19	36	22	56	19	12	8.1	5.3	4.1
11	11	11	62	19	33	21	40	19	11	8.0	5.2	3.9
12	13	11	32	18	31	26	39	19	11	8.0	5.2	3.6
13	14	11	37	18	29	56	53	21	11	8.3	4.9	3.6
14	48	10	36	18	28	49	49	24	21	10	4.8	4.9
15	24	11	30	18	27	39	44	19	13	51	4.8	22
16	15	11	26	17	26	35	40	18	11	15	12	25
17	13	11	34	17	25	131	40	17	11	11	11	9.8
18	12	11	54	18	24	121	38	34	10	9.8	15	7.7
19	12	11	37	38	23	78	36	19	11	9.3	7.3	37
20	12	11	32	44	24	63	34	18	10	8.6	6.1	12
21	12	11	28	33	24	53	33	17	9.3	8.3	5.5	11
22	11	10	26	28	23	43	31	17	8.8	8.4	5.1	12
23	11	11	27	81	22	38	28	16	8.9	13	5.2	17
24	11	23	32	73	21	35	28	16	9.1	14	6.8	11
25	11	27	26	73	21	33	31	15	8.5	18	5.7	10
26	11	18	25	53	21	39	27	15	9.4	36	5.5	61
27	11	14	23	44	20	43	26	23	14	14	7.9	153
28	11	13	23	37	19	35	26	16	17	11	6.9	69
29	11	12	22	34	---	33	25	15	16	9.5	6.5	34
30	11	17	21	31	---	35	23	15	11	8.7	6.5	24
31	12	---	20	29	---	44	---	14	---	7.8	6.7	---
TOTAL	409	377	793	929	756	1296	1056	616	391.0	411.4	207.4	587.9
MEAN	13.19	12.57	25.58	29.97	27.00	41.81	35.20	19.87	13.03	13.27	6.690	19.60
MAX	48	27	62	81	47	131	56	34	34	51	15	153
MIN	11	10	12	17	19	19	23	14	8.5	7.8	4.8	3.6
CFSM	0.46	0.44	0.89	1.04	0.94	1.45	1.22	0.69	0.45	0.46	0.23	0.68
IN.	0.53	0.49	1.02	1.20	0.98	1.67	1.36	0.80	0.51	0.53	0.27	0.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	35.65	40.24	44.49	50.83	60.63	72.43	68.46	53.47	47.10	38.71	43.21	34.96
MEAN	35.65	40.24	44.49	50.83	60.63	72.43	68.46	53.47	47.10	38.71	43.21	34.96
MAX	149	140	98.8	132	143	160	164	125	122	98.9	194	136
(WY)	1991	1978	1974	1946	1960	1993	1980	1973	1992	1941	1940	1979
MIN	8.45	9.07	11.8	11.4	17.4	23.7	26.5	16.5	13.0	9.04	6.69	6.95
(WY)	1955	1982	1956	1956	2001	1988	1981	2001	2002	1988	2002	1954

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	8114.0	7829.7	
ANNUAL MEAN	22.23	21.45	49.11
HIGHEST ANNUAL MEAN			78.3
LOWEST ANNUAL MEAN			21.0
HIGHEST DAILY MEAN	165	Mar 21	2130
LOWEST DAILY MEAN	9.2	Jan 11	3.6
ANNUAL SEVEN-DAY MINIMUM	9.2	Jan 11	4.1
MAXIMUM PEAK FLOW			292
MAXIMUM PEAK STAGE			2.49
INSTANTANEOUS LOW FLOW			3.3*
ANNUAL RUNOFF (CFSM)	0.77		0.74
ANNUAL RUNOFF (INCHES)	10.48		10.11
10 PERCENT EXCEEDS	37		39
50 PERCENT EXCEEDS	16		17
90 PERCENT EXCEEDS	11		7.1

e Estimated.
* See REMARKS.

02111000 YADKIN RIVER AT PATTERSON, NC--Continued

