

02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'27", 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.--No estimated daily discharges. Records good. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	36	64	54	39	47	50	43	37	56	30	38
2	40	36	59	53	39	47	45	47	34	76	29	210
3	40	36	57	53	74	46	42	44	32	65	29	112
4	40	35	62	52	59	45	41	41	63	59	27	66
5	39	40	66	55	52	44	39	39	43	55	26	50
6	38	56	62	51	182	49	38	38	37	47	26	45
7	38	47	58	48	170	45	38	36	35	44	24	231
8	39	42	56	48	102	44	38	34	35	42	24	1,400
9	45	39	54	48	80	43	37	44	34	39	23	444
10	46	38	115	47	71	42	36	36	47	38	23	219
11	41	38	137	45	66	41	36	34	45	39	33	146
12	39	37	97	45	67	41	78	34	37	41	42	111
13	38	36	83	45	63	40	178	40	43	36	33	91
14	40	35	87	44	60	40	130	37	41	34	27	83
15	40	36	79	44	61	41	85	34	126	33	26	75
16	37	35	75	43	58	51	69	39	370	32	25	69
17	37	35	99	43	54	44	61	66	159	33	24	205
18	37	36	89	50	53	47	55	58	108	41	30	217
19	36	509	81	44	52	45	52	46	80	34	26	136
20	35	192	73	42	51	42	50	46	66	31	49	104
21	36	116	67	42	51	42	48	40	86	30	28	88
22	35	89	64	41	49	40	45	51	253	29	26	78
23	35	76	63	40	48	39	44	88	111	29	26	71
24	35	78	75	40	48	39	43	78	82	28	111	67
25	35	68	65	43	46	38	42	53	82	65	57	63
26	39	62	63	43	47	38	62	47	89	41	41	60
27	81	59	60	42	49	38	50	44	69	39	37	62
28	44	81	58	40	49	38	43	40	64	40	49	265
29	40	76	58	41	48	37	41	38	58	32	44	127
30	38	69	61	41	---	41	41	37	53	34	38	95
31	37	---	55	40	---	59	---	44	---	33	38	---
TOTAL	1,242	2,168	2,242	1,407	1,888	1,333	1,657	1,396	2,419	1,275	1,071	5,028
MEAN	40.1	72.3	72.3	45.4	65.1	43.0	55.2	45.0	80.6	41.1	34.5	168
MAX	81	509	137	55	182	59	178	88	370	76	111	1,400
MIN	35	35	54	40	39	37	36	34	32	28	23	38
CFSM	1.39	2.51	2.51	1.58	2.26	1.49	1.92	1.56	2.80	1.43	1.20	5.82
IN.	1.60	2.80	2.90	1.82	2.44	1.72	2.14	1.80	3.12	1.65	1.38	6.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	35.5	40.9	45.3	50.6	60.7	72.1	69.0	53.7	48.9	40.0	44.2	37.4
MAX	149	140	98.8	132	143	160	164	125	132	122	194	168
(WY)	(1991)	(1978)	(1974)	(1946)	(1960)	(1993)	(1980)	(1973)	(2003)	(2003)	(1940)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	30,113		23,126		49.8	
ANNUAL MEAN	82.5		63.2		78.6	
HIGHEST ANNUAL MEAN					21.0	2003
LOWEST ANNUAL MEAN					21.0	2001
HIGHEST DAILY MEAN	509	Nov 19	1,400	Sep 8	2,130	Aug 13, 1940
LOWEST DAILY MEAN	28	Jan 27	23	Aug 9	3.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	29	Jan 22	25	Aug 4	4.1	Sep 7, 2002
MAXIMUM PEAK FLOW			2,660	Sep 8	16200*	Aug 13, 1940
MAXIMUM PEAK STAGE			6.90	Sep 8	12.70	Aug 13, 1940
INSTANTANEOUS LOW FLOW			21	Aug 11	3.0	May 15, 1940
ANNUAL RUNOFF (CFSM)	2.86		2.19		1.73	
ANNUAL RUNOFF (INCHES)	38.90		29.87		23.49	
10 PERCENT EXCEEDS	150		89		88	
50 PERCENT EXCEEDS	64		44		37	
90 PERCENT EXCEEDS	35		34		16	

* See REMARKS.

