

## 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 mi<sup>2</sup>.

## 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 ft<sup>3</sup>/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. 25, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	56	83	61	55	64	80	50	40	52	54	43
2	76	55	73	58	53	55	140	48	75	65	47	39
3	71	54	70	57	63	53	115	46	51	85	45	37
4	67	110	67	56	61	53	97	45	45	76	43	35
5	63	86	63	55	57	57	85	47	41	61	41	34
6	60	71	63	54	55	59	76	45	39	53	41	33
7	57	65	65	52	54	56	73	44	62	298	47	33
8	56	60	61	53	54	59	78	43	91	207	49	32
9	55	56	86	50	53	53	73	41	78	106	49	31
10	54	54	101	50	51	51	66	42	103	79	49	30
11	52	53	93	49	49	50	63	42	88	75	44	30
12	51	110	82	48	48	49	61	48	73	82	40	29
13	68	98	76	57	49	48	76	47	336	68	38	29
14	62	79	69	218	51	50	115	46	171	65	43	28
15	53	72	65	110	49	47	84	62	97	74	40	28
16	50	67	63	88	48	49	74	53	75	118	38	28
17	49	63	61	77	46	55	69	45	63	126	47	29
18	48	61	60	69	45	50	65	43	57	141	252	27
19	55	59	58	67	45	49	62	42	64	183	132	26
20	51	57	55	66	47	48	59	54	65	180	81	26
21	49	55	56	63	51	47	57	44	72	133	63	25
22	50	54	52	61	48	48	65	41	56	100	56	25
23	56	64	206	57	46	76	63	42	50	82	51	25
24	56	160	144	e56	52	68	55	39	47	70	48	24
25	52	168	105	54	48	61	53	38	45	63	44	25
26	50	110	90	54	46	57	52	37	44	57	42	28
27	53	92	80	51	46	61	53	36	42	53	40	27
28	70	87	73	49	72	265	49	36	42	53	39	24
29	68	76	69	e49	---	164	59	35	57	76	47	24
30	66	72	66	e51	---	110	53	35	56	60	63	23
31	61	---	63	58	---	89	---	34	---	61	55	---
TOTAL	1,811	2,324	2,418	1,998	1,442	2,101	2,170	1,350	2,225	3,002	1,768	877
MEAN	58.4	77.5	78.0	64.5	51.5	67.8	72.3	43.5	74.2	96.8	57.0	29.2
MAX	82	168	206	218	72	265	140	62	336	298	252	43
MIN	48	53	52	48	45	47	49	34	39	52	38	23
CFSM	2.03	2.69	2.71	2.24	1.79	2.35	2.51	1.51	2.58	3.36	1.98	1.02
IN.	2.34	3.00	3.12	2.58	1.86	2.71	2.80	1.74	2.87	3.88	2.28	1.13

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	35.9	41.4	45.7	50.8	60.6	72.1	69.0	53.5	49.3	40.9	44.4	37.3
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	24,027		23,486		50.0	
ANNUAL MEAN	65.6		64.3		78.6	
HIGHEST ANNUAL MEAN					21.0	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,400	Sep 8	336	Jun 13	2,130	Aug 13, 1940
LOWEST DAILY MEAN	23	Aug 9	23	Sep 30	3.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Aug 4	25	Sep 24	4.1	Sep 7, 2002
MAXIMUM PEAK FLOW			1,440	Jun 13	16,200*	Aug 13, 1940
MAXIMUM PEAK STAGE			5.40	Jun 13	12.70	Aug 13, 1940
INSTANTANEOUS LOW FLOW			23*	Sep 24	3.0	May 15, 1940
ANNUAL RUNOFF (CFSM)	2.28		2.23		1.74	
ANNUAL RUNOFF (INCHES)	31.03		30.34		23.59	
10 PERCENT EXCEEDS	96		92		88	
50 PERCENT EXCEEDS	50		55		37	
90 PERCENT EXCEEDS	34		38		16	

\* See REMARKS.

e Estimated.

