

02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'29", long 81°33'29", 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 Oct. 9, 14, 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	25	53	29	62	60	125	51	141	169	116
2	18	20	24	50	28	60	56	117	47	395	129	84
3	16	19	24	69	28	54	53	85	68	263	189	81
4	15	19	25	62	34	50	51	73	92	164	184	97
5	14	26	e52	56	30	48	52	106	65	159	128	85
6	13	40	42	52	29	82	48	146	55	183	100	75
7	12	28	34	48	33	65	69	115	280	230	215	70
8	12	26	33	46	30	58	67	93	234	152	186	66
9	12	24	34	44	29	54	112	79	178	157	207	61
10	12	26	34	42	31	49	426	70	125	144	198	58
11	21	182	133	39	31	46	308	65	97	112	151	55
12	16	118	92	37	31	44	184	58	104	96	128	53
13	13	84	145	36	29	43	134	54	94	95	e115	51
14	12	59	147	35	31	41	108	52	109	84	e105	50
15	22	47	96	34	45	40	93	61	131	77	e110	51
16	100	97	75	33	44	183	83	60	319	99	119	47
17	42	135	61	34	43	120	77	58	298	86	99	45
18	28	86	52	32	46	97	298	60	216	77	89	45
19	23	63	47	e33	54	90	201	55	294	70	91	43
20	21	51	100	e32	56	257	149	52	189	65	77	42
21	23	50	71	32	56	196	131	57	141	110	78	41
22	23	44	61	30	298	134	112	78	113	110	76	90
23	19	38	53	e31	214	103	96	81	96	87	72	124
24	18	35	111	30	125	86	85	83	83	72	66	58
25	19	33	113	e29	91	75	81	73	76	64	62	51
26	22	31	84	e29	76	66	78	77	70	59	59	48
0.09	Oct	8	27	19	30	70	e28	73	59	69	74	73
28	22	28	61	28	69	55	64	64	64	53	62	51
29	26	27	54	30	---	56	63	62	66	83	59	44
30	26	26	49	32	---	e84	80	57	117	133	94	43
31	24	---	46	31	---	68	---	58	---	96	121	---
TOTAL	683	1,513	2,048	1,197	1,713	2,525	3,488	2,348	3,945	3,772	3,597	1,876
MEAN	22.0	50.4	66.1	38.6	61.2	81.5	116	75.7	132	122	116	62.5
MAX	100	182	147	69	298	257	426	146	319	395	215	124
MIN	12	19	24	28	28	40	48	52	47	53	59	41
CFSM	0.77	1.75	2.29	1.34	2.12	2.83	4.04	2.63	4.57	4.22	4.03	2.17
IN.	0.88	1.95	2.65	1.55	2.21	3.26	4.51	3.03	5.10	4.87	4.65	2.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	35.4	40.4	44.8	50.6	60.6	72.6	69.2	53.8	48.4	40.0	44.4	35.4
MAX	149	140	98.8	132	143	160	164	125	132	122	194	136
(WY)	(1991)	(1978)	(1974)	(1946)	(1960)	(1993)	(1980)	(1973)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	10,494.7		28,705		49.6	
ANNUAL MEAN	28.8		78.6		78.6	
HIGHEST ANNUAL MEAN					21.0	2003
LOWEST ANNUAL MEAN					21.0	2001
HIGHEST DAILY MEAN	182	Nov 11	426	Apr 10	2,130	Aug 13, 1940
LOWEST DAILY MEAN	3.6	Sep 12	12	Oct 7	3.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	4.1	Sep 7	13	Oct 4	4.1	Sep 7, 2002
MAXIMUM PEAK FLOW			774	Apr 10	16,200*	Aug 13, 1940
MAXIMUM PEAK STAGE			4.06	Apr 10	12.70	Aug 13, 1940
INSTANTANEOUS LOW FLOW			11*	Oct 8	3.0	May 15, 1940
ANNUAL RUNOFF (CFSM)	1.00		2.73		1.72	
ANNUAL RUNOFF (INCHES)	13.56		37.08		23.39	
10 PERCENT EXCEEDS	55		148		88	
50 PERCENT EXCEEDS	22		61		37	
90 PERCENT EXCEEDS	7.1		26		16	

e Estimated.
 * See REMARKS.

