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 mi^2.

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 sea level. 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 fair except those for estimated daily discharges, which are poor. Maximum discharge, for period of record, from rating curve extended above 1,400 ft^3/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, result of freezeup.

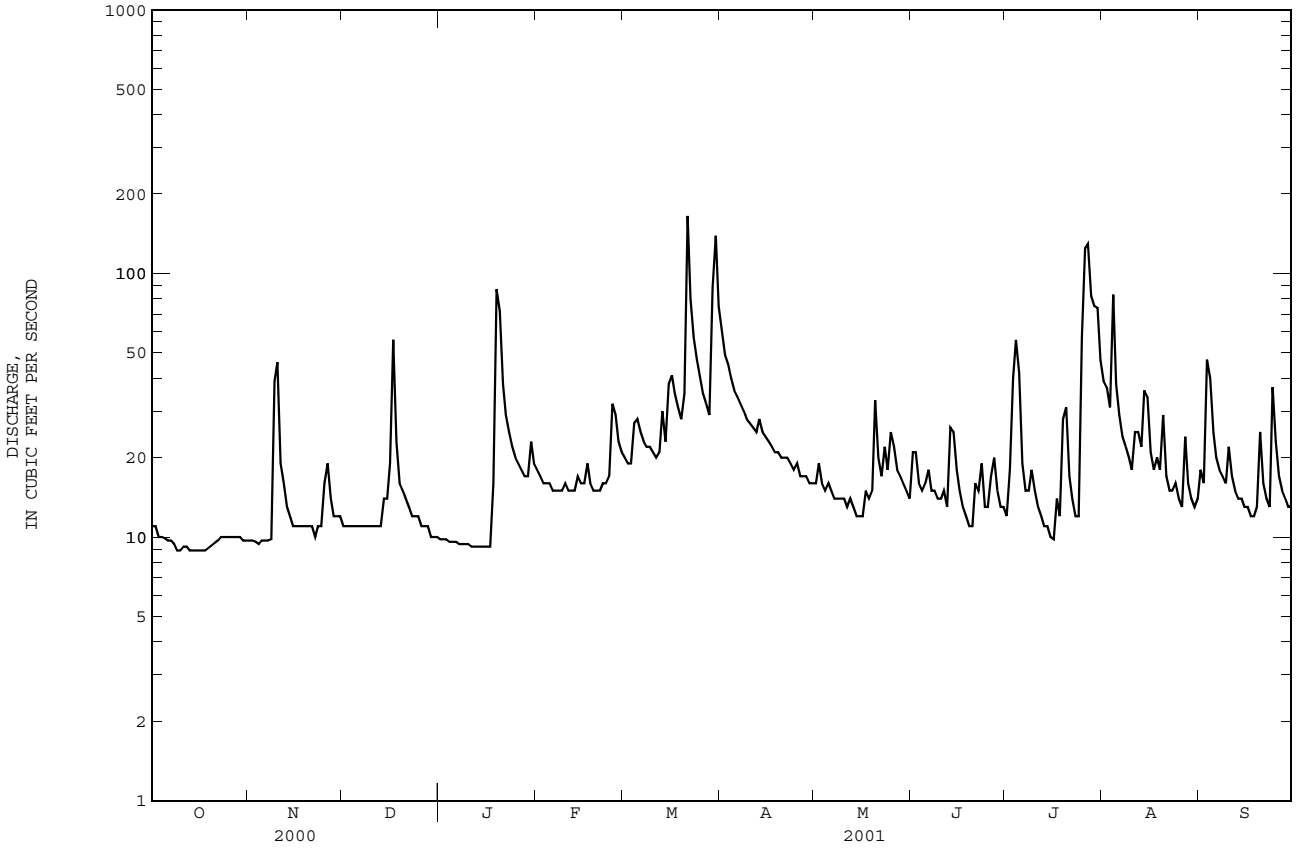
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.7	11	e9.8	18	20	61	16	21	12	39	18
2	11	9.7	11	e9.8	17	19	49	19	21	18	37	16
3	10	9.6	11	e9.8	16	19	45	16	16	40	31	47
4	10	9.4	11	e9.6	16	27	40	15	15	56	83	40
5	9.9	9.7	11	e9.6	16	28	36	16	16	42	38	25
6	9.7	9.7	11	e9.6	15	25	34	15	18	19	29	20
7	9.7	9.7	11	e9.4	15	23	32	14	15	15	24	18
8	9.4	9.8	11	e9.4	15	22	30	14	15	15	22	17
9	8.9	39	11	e9.4	15	22	28	14	14	18	20	16
10	8.9	46	11	e9.4	16	21	27	14	14	15	18	22
11	9.2	19	11	e9.2	15	20	26	13	15	13	25	17
12	9.2	16	11	e9.2	15	21	25	14	13	12	25	15
13	8.9	13	11	e9.2	15	30	28	13	26	11	22	14
14	8.9	12	14	e9.2	17	23	25	12	25	11	36	14
15	8.9	11	14	e9.2	16	38	24	12	18	10	34	13
16	8.9	11	19	e9.2	16	41	23	12	15	9.8	21	13
17	8.9	11	56	e9.2	19	35	22	15	13	14	18	12
18	8.9	11	23	e16	16	31	21	14	12	12	20	12
19	9.1	11	e16	87	15	28	21	15	11	28	18	13
20	9.3	11	e15	72	15	35	20	33	11	31	29	25
21	9.5	11	e14	38	15	165	20	20	16	17	17	16
22	9.7	10	e13	29	16	80	20	17	15	14	15	14
23	10	11	e12	25	16	57	19	22	19	12	15	13
24	10	11	e12	22	17	47	18	18	13	12	16	37
25	10	16	e12	20	32	40	19	25	13	57	14	23
26	10	19	e11	19	29	35	17	22	17	124	13	17
27	10	14	e11	18	23	32	17	18	20	129	24	15
28	10	12	e11	17	21	29	17	17	15	82	16	14
29	10	12	e10	17	---	88	16	16	13	75	14	13
30	9.7	12	e10	23	---	139	16	15	13	74	13	13
31	9.7	---	e10	19	---	75	---	14	---	47	14	---
TOTAL	297.3	416.3	426	582.2	487	1315	796	510	478	1044.8	760	562
MEAN	9.59	13.9	13.7	18.8	17.4	42.4	26.5	16.5	15.9	33.7	24.5	18.7
MAX	11	46	56	87	32	165	61	33	26	129	83	47
MIN	8.9	9.4	10	9.2	15	19	16	12	11	9.8	13	12
CFSM	.33	.48	.48	.65	.60	1.47	.92	.57	.55	1.17	.85	.65
IN.	.38	.54	.55	.75	.63	1.70	1.03	.66	.62	1.35	.98	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	36.0	40.7	44.8	51.2	61.2	72.9	69.0	54.0	47.7	39.1	43.8	35.2
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	9.05	6.95
(WY)	1955	1982	1956	1956	2001	1988	1981	2001	1956	1988	1988	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	9237.4		7674.6			
ANNUAL MEAN	25.2		21.0		49.6	
HIGHEST ANNUAL MEAN					78.3	1973
LOWEST ANNUAL MEAN					21.0	2001
HIGHEST DAILY MEAN	208	Mar 20	165	Mar 21	2130	Aug 13 1940
LOWEST DAILY MEAN	8.6	Aug 28	8.9	Oct 9	5.3	Sep 30 1954
ANNUAL SEVEN-DAY MINIMUM	8.9	Aug 25	8.9	Oct 13	5.7	Sep 25 1954
MAXIMUM PEAK FLOW			350	Jul 26	16200*	Aug 13 1940
MAXIMUM PEAK STAGE			2.71	Jul 26	12.70	Aug 13 1940
INSTANTANEOUS LOW FLOW			7.2*	Dec 31	3.0	May 15 1940
ANNUAL RUNOFF (CFSM)	.88		.73		1.72	
ANNUAL RUNOFF (INCHES)	11.93		9.91		23.38	
10 PERCENT EXCEEDS	47		37		87	
50 PERCENT EXCEEDS	19		16		37	
90 PERCENT EXCEEDS	9.8		9.7		16	

e Estimated.
* See REMARKS.

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