

02124742 ROCKY RIVER NEAR STANFIELD, NC

LOCATION.--Lat 35°10'10", long 80°28'24", Union County, Hydrologic Unit 03040105, on right bank at bridge on Secondary Road 1606, 1.3 mi upstream from Crooked Creek, and 5.0 mi southwest of Stanfield

DRAINAGE AREA.--628 mi².

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 440 ft above sea level (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. WSACC Rocky River waste water treatment plant discharged an average of 21.9 ft³/s during period April to September 2000, and an average of 26.0 ft³/s during the current water year as treated effluent 16.5 mi upstream from station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred Sept. 3, 15, 16, 17, 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD APRIL TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e280	415	99	92	132	56
2	---	---	---	---	---	---	e240	319	94	76	245	290
3	---	---	---	---	---	---	e280	315	93	64	169	484
4	---	---	---	---	---	---	e400	371	104	57	662	785
5	---	---	---	---	---	---	e300	271	430	55	571	540
6	---	---	---	---	---	---	271	239	264	60	179	190
7	---	---	---	---	---	---	250	218	161	76	105	107
8	---	---	---	---	---	---	257	205	112	120	84	81
9	---	---	---	---	---	---	925	196	99	108	75	72
10	---	---	---	---	---	---	434	185	92	82	108	63
11	---	---	---	---	---	---	324	184	83	73	197	53
12	---	---	---	---	---	---	281	176	80	170	102	49
13	---	---	---	---	---	---	322	166	84	383	71	49
14	---	---	---	---	---	---	478	182	84	203	58	48
15	---	---	---	---	---	---	1200	186	81	191	60	48
16	---	---	---	---	---	---	1650	153	80	116	54	45
17	---	---	---	---	---	---	751	142	83	80	49	37
18	---	---	---	---	---	---	621	137	80	67	49	35
19	---	---	---	---	---	---	541	133	75	60	131	203
20	---	---	---	---	---	---	386	125	80	63	116	218
21	---	---	---	---	---	---	319	119	77	88	58	99
22	---	---	---	---	---	---	283	417	76	64	52	64
23	---	---	---	---	---	---	252	241	72	57	49	2440
24	---	---	---	---	---	---	238	153	71	122	47	1490
25	---	---	---	---	---	---	366	140	67	122	48	297
26	---	---	---	---	---	---	425	137	67	148	56	909
27	---	---	---	---	---	---	311	124	99	100	61	275
28	---	---	---	---	---	---	489	105	75	78	42	168
29	---	---	---	---	---	---	1180	104	177	114	44	131
30	---	---	---	---	---	---	584	119	151	95	42	109
31	---	---	---	---	---	---	---	110	---	65	44	---
TOTAL	---	---	---	---	---	---	14638	6087	3290	3249	3760	9435
MEAN	---	---	---	---	---	---	488	196	110	105	121	314
MAX	---	---	---	---	---	---	1650	417	430	383	662	2440
MIN	---	---	---	---	---	---	238	104	67	55	42	35
CFSM	---	---	---	---	---	---	.78	.31	.17	.17	.19	.50
IN.	---	---	---	---	---	---	.87	.36	.19	.19	.22	.56

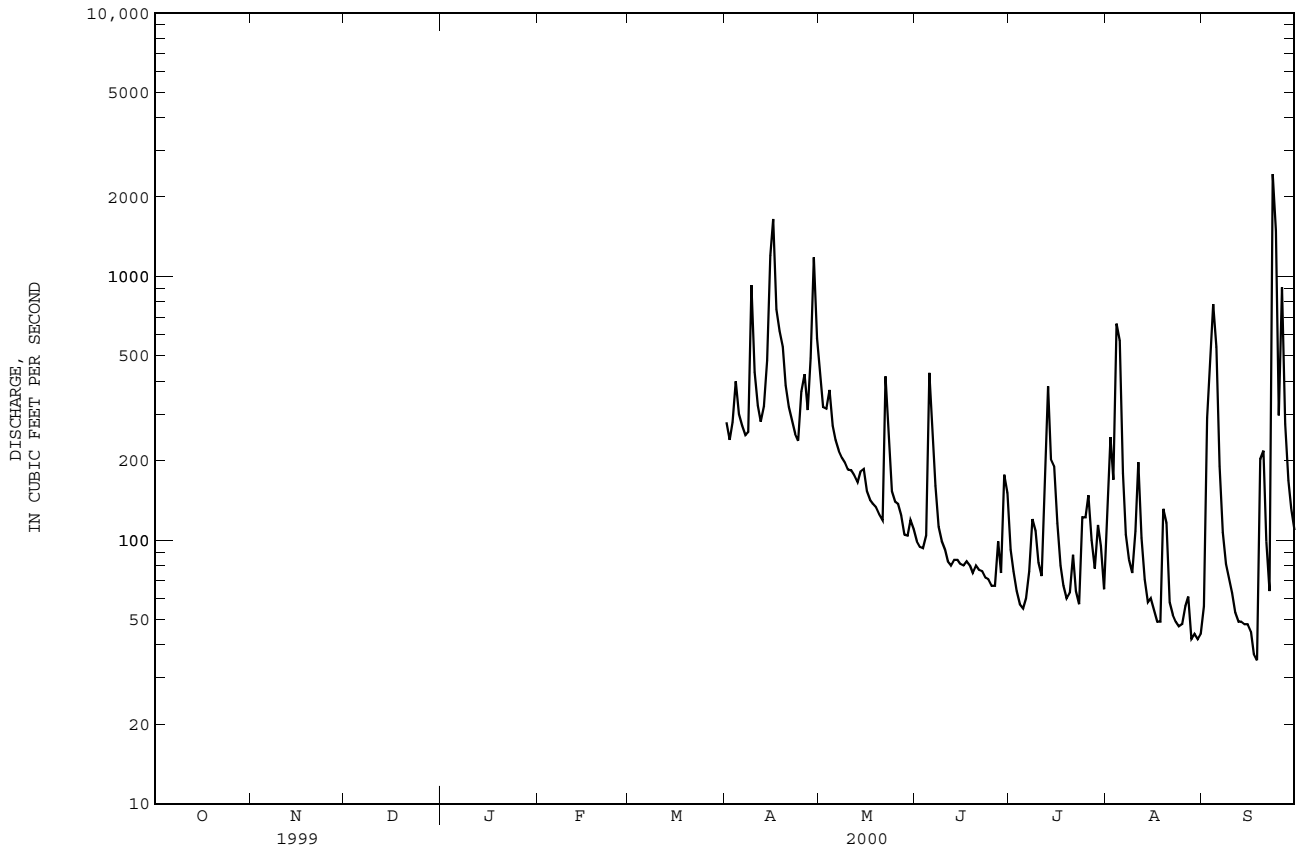
SUMMARY STATISTICS

FOR PERIOD APRIL TO SEPTEMBER 2000

MAXIMUM PEAK FLOW 4370 Sep 23
 MAXIMUM PEAK STAGE 6.45 Sep 23
 INSTANTANEOUS LOW FLOW 30* Sep 18

e Estimated.
 * See REMARKS.

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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	95	71	113	e89	145	199	686	128	115	117	83	61
2	89	71	106	e90	127	182	534	127	317	97	75	53
3	86	70	100	e92	124	172	401	120	204	88	72	55
4	83	66	105	e93	116	1160	385	119	125	89	67	254
5	78	63	109	e95	113	845	335	112	102	1320	63	518
6	76	65	106	e97	121	439	296	106	95	383	62	208
7	74	73	107	e100	118	312	274	100	90	264	64	113
8	69	73	105	102	117	251	254	98	85	154	60	90
9	63	79	101	142	116	224	238	e94	97	156	58	75
10	67	113	96	136	117	207	228	90	96	136	76	68
11	68	128	97	113	127	186	216	88	82	112	717	72
12	70	92	104	116	129	181	207	85	78	97	558	64
13	71	77	100	152	155	207	201	82	77	91	211	58
14	73	84	97	152	185	228	250	83	587	99	215	56
15	66	152	119	124	196	312	207	83	246	101	111	53
16	64	121	117	114	166	781	192	81	166	82	86	54
17	70	101	165	114	701	440	184	76	184	74	74	50
18	69	117	262	110	696	314	167	117	116	72	84	51
19	68	111	168	121	312	253	161	91	88	87	326	51
20	e66	163	139	450	232	282	160	272	79	137	118	55
21	e63	168	128	441	200	3520	158	150	73	111	84	164
22	e60	126	113	266	230	1760	154	164	75	81	68	104
23	60	103	107	202	378	627	152	217	690	69	62	76
24	66	86	e96	170	258	411	151	163	305	73	61	559
25	67	123	e93	157	216	326	222	121	864	125	73	1160
26	72	420	e91	140	391	276	329	210	566	181	62	250
27	68	239	e89	133	307	250	200	245	666	175	60	139
28	68	161	e88	128	226	222	160	137	236	119	65	103
29	63	133	e87	123	---	998	141	241	256	93	61	88
30	63	121	e87	131	---	6030	131	203	186	86	57	77
31	73	---	e88	161	---	1970	---	133	---	88	59	---
TOTAL	2188	3570	3483	4654	6319	23565	7374	4136	6946	4957	3892	4779
MEAN	70.6	119	112	150	226	760	246	133	232	160	126	159
MAX	95	420	262	450	701	6030	686	272	864	1320	717	1160
MIN	60	63	87	89	113	172	131	76	73	69	57	50
CFSM	.11	.19	.18	.24	.36	1.21	.39	.21	.37	.25	.20	.25
IN.	.13	.21	.21	.28	.37	1.40	.44	.24	.41	.29	.23	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2001
MEAN	70.6	119	112	150	226	760	367	165	171	132	123	237
MAX	70.6	119	112	150	226	760	488	196	232	160	126	314
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001	2001	2000
MIN	70.6	119	112	150	226	760	246	133	110	105	121	159
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	75863	
ANNUAL MEAN	208	212
HIGHEST ANNUAL MEAN		221
LOWEST ANNUAL MEAN		208
HIGHEST DAILY MEAN	6030	6030
LOWEST DAILY MEAN	50	35
ANNUAL SEVEN-DAY MINIMUM	53	44
MAXIMUM PEAK FLOW	6550	6550
MAXIMUM PEAK STAGE	8.03	8.03
INSTANTANEOUS LOW FLOW	48*	30*
ANNUAL RUNOFF (CFSM)	.33	.34
ANNUAL RUNOFF (INCHES)	4.49	4.59
10 PERCENT EXCEEDS	331	400
50 PERCENT EXCEEDS	116	117
90 PERCENT EXCEEDS	66	63

e Estimated.

* See REMARKS.

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