02053200 POTECASI CREEK NEAR UNION, NC

LOCATION.--Lat 36°22'14", long 77°01'36", Hertford County, Hydrologic Unit 03010204, on right bank at downstream side of bridge on State Highway 11, 2.8 mi north of Union, 3 mi downstream of Cutawhiskie Swamp, and 3.5 mi upstream from Bells Branch.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1953-57. March 1958 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.53 ft above sea level. Prior to Dec. 1, 1958, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those below 50 ft^3/s and those for estimated daily discharges which are poor. Maximum discharge for period of record from rating curve extended above 5,800 ft^3/s on basis of discharge-conveyance ratios of peak flow; gage height from outside floodmarks. Minimum discharge for current water year also occurred July 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1929 reached a stage of 19.1 ft; discharge, 4,050 ft^3/s; and flood of August 1940 reached a stage of 24.1 ft; discharge, 7,000 ft^3/s, from rating curve extended above 4,000 ft^3/s, from information furnished by North Carolina State Highway Commission.

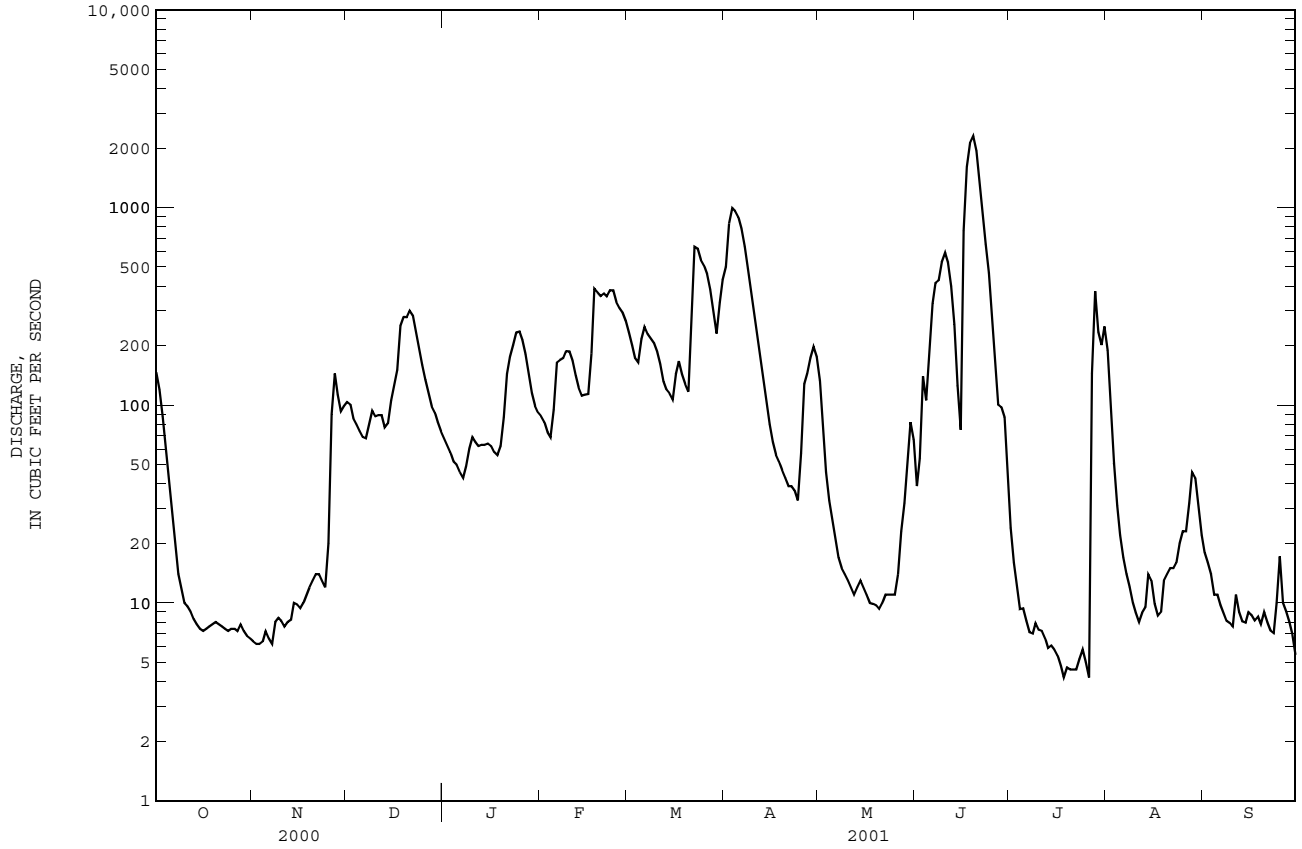
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	e6.4	104	e68	88	233	500	133	39	24	190	18
2	120	e6.2	101	e62	82	201	833	75	54	16	102	16
3	88	e6.2	86	e58	73	174	995	46	140	12	51	14
4	58	e6.4	80	52	69	165	962	33	106	9.3	31	11
5	39	e7.2	74	50	95	216	896	26	188	9.4	22	11
6	27	e6.6	69	46	164	249	779	21	328	8.1	17	9.8
7	19	e6.2	68	43	169	229	636	17	416	7.1	14	8.9
8	14	e8.0	80	49	173	218	489	15	429	7.0	12	8.1
9	12	e8.4	94	60	188	207	369	14	532	7.9	10	7.9
10	10	e8.1	88	69	187	187	280	13	589	7.3	8.9	7.6
11	9.6	e7.6	89	65	168	161	215	12	527	7.2	8.0	11
12	9.0	e8.0	89	62	141	132	169	11	401	6.6	8.9	e9.0
13	8.3	e8.2	77	63	123	120	133	12	257	5.9	9.5	e8.0
14	7.8	e10	81	63	112	115	102	13	126	6.1	14	e7.9
15	7.4	e9.8	106	64	113	107	80	12	75	5.8	13	e9.0
16	7.2	e9.4	124	62	114	144	65	11	762	5.4	9.9	e8.7
17	e7.4	e10	151	58	183	167	56	10	1610	4.8	8.6	e8.1
18	e7.6	e11	252	56	389	143	52	9.9	2120	4.2	9.0	e8.5
19	e7.8	e12	280	62	372	128	47	9.7	2300	4.7	13	e7.8
20	e8.0	e13	279	87	357	117	43	9.3	1940	4.6	14	e9.0
21	e7.8	e14	301	144	368	250	39	10	1450	4.6	15	e8.0
22	e7.6	e14	284	175	356	634	39	11	996	4.6	15	e7.3
23	e7.4	e13	231	201	382	619	37	11	652	5.2	16	e7.0
24	e7.2	e12	e191	233	382	544	33	11	467	5.8	20	e10
25	e7.4	e20	e160	236	332	509	57	11	308	5.0	23	e17
26	e7.4	e90	e134	214	310	463	128	14	176	4.2	23	e10
27	e7.2	145	e115	181	295	386	144	23	101	145	32	e9.0
28	e7.8	113	e99	146	268	296	173	32	98	377	46	e8.0
29	e7.2	93	e92	115	---	231	197	49	87	234	43	e7.0
30	e6.8	99	e82	99	---	331	176	82	49	202	31	e5.5
31	e6.6	---	e74	92	---	431	---	67	---	250	22	---
TOTAL	694.5	781.7	4135	3035	6053	8107	8724	823.9	17323	1400.8	851.8	288.1
MEAN	22.4	26.1	133	97.9	216	262	291	26.6	577	45.2	27.5	9.60
MAX	147	145	301	236	389	634	995	133	2300	377	190	18
MIN	6.6	6.2	68	43	69	107	33	9.3	39	4.2	8.0	5.5
CFSM	.10	.12	.59	.44	.96	1.16	1.29	.12	2.57	.20	.12	.04
IN.	.11	.13	.68	.50	1.00	1.34	1.44	.14	2.86	.23	.14	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

MEAN	131	97.9	198	406	491	461	302	147	117	105	154	141
MAX	1108	619	619	957	1135	1439	994	925	700	531	1131	2515
(WY)	1960	1986	1990	1987	1960	1989	1983	1979	1979	1975	1992	1999
MIN	2.12	5.64	12.0	51.3	54.9	46.7	27.7	5.36	4.71	2.32	2.50	1.65
(WY)	1995	1982	1995	1981	1991	1988	1995	1994	1986	1983	1987	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1959 - 2001	
ANNUAL TOTAL	70913.5		52217.8			
ANNUAL MEAN	194		143		228	
HIGHEST ANNUAL MEAN					458	1979
LOWEST ANNUAL MEAN					73.0	1981
HIGHEST DAILY MEAN	1320	Apr 19	2300	Jun 19	15200	Sep 17 1999
LOWEST DAILY MEAN	6.2	Nov 2	4.2	Jul 18	.30	Jun 30 1959
ANNUAL SEVEN-DAY MINIMUM	6.5	Nov 1	4.7	Jul 17	.51	Jun 25 1959
MAXIMUM PEAK FLOW			2360	Jun 19	17000*	Sep 17 1999
MAXIMUM PEAK STAGE			15.31	Jun 19	28.90*	Sep 17 1999
INSTANTANEOUS LOW FLOW			4.0*	Jul 18	.20	Jul 1 1959
ANNUAL RUNOFF (CFSM)	.86		.64		1.01	
ANNUAL RUNOFF (INCHES)	11.72		8.63		13.77	
10 PERCENT EXCEEDS	528		368		640	
50 PERCENT EXCEEDS	90		58		76	
90 PERCENT EXCEEDS	9.4		7.4		5.4	

e Estimated.
* See REMARKS.

02053200 POTECASI CREEK NEAR UNION, NC--Continued