

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC

LOCATION.--Lat 34°57'07", long 80°45'21", Union County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on State Highway 16, 680 ft downstream of West Fork Twelve Mile Creek, and 2.5 mi north of Waxhaw.

DRAINAGE AREA.--76.5 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-60. October 1960 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above NGVD of 1929. Prior to Mar. 13, 1962, water-stage recorder at site 20 ft upstream, Mar. 13, 1962 to June 4, 1997, water-stage recorder at site 100 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for current water year from floodmark. No flow also occurred Oct. 6, 1968, Oct. 7-15, 1970, Oct. 1-22, 1983 and Aug. 26, 2001. Minimum discharge for current water year also occurred Oct. 6.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900 is 23.6 ft, Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

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	1.4	15	12	40	95	130	83	28	73	35	33	41
2	1.1	11	12	46	62	253	60	28	37	1,520	29	29
3	0.76	9.0	11	40	48	e110	49	30	32	203	103	27
4	0.64	7.9	11	39	86	e80	43	41	69	65	e150	27
5	0.53	9.5	167	34	78	69	39	32	47	40	383	31
6	0.43	189	129	32	49	1,890	40	1,210	33	32	64	28
7	0.54	42	47	30	437	e650	881	777	769	27	35	25
8	2.5	19	28	29	123	e120	283	125	408	24	27	25
9	2.4	15	22	29	70	83	e900	69	105	23	24	24
10	1.2	13	18	28	96	62	e3,000	48	52	25	26	23
11	189	111	108	27	88	e50	e1,600	39	37	29	51	22
12	44	504	65	26	56	e44	236	35	43	116	25	21
13	36	177	868	25	45	42	119	32	53	306	22	22
14	44	46	522	26	41	45	77	29	32	211	429	21
15	16	e27	99	25	45	40	58	29	28	60	1,450	21
16	81	65	60	25	120	289	48	378	26	36	196	27
17	30	492	45	26	191	135	41	60	308	30	362	24
18	15	130	37	26	133	151	302	41	1,410	43	64	20
19	11	48	32	26	110	121	478	40	474	28	42	19
20	8.3	30	84	25	70	e800	152	37	116	32	e34	19
21	6.9	24	68	26	59	e500	96	32	56	28	31	18
22	6.0	20	40	29	832	e170	91	680	39	26	29	19
23	6.3	18	33	30	828	e110	59	767	34	29	27	141
24	6.4	16	495	29	108	e76	43	149	31	30	26	23
25	6.2	15	770	28	70	e60	46	540	29	27	e24	16
26	6.3	15	147	28	55	50	79	487	28	23	e24	14
27	6.3	14	79	32	101	45	56	106	26	21	e28	13
28	14	13	58	29	167	41	39	80	25	20	27	12
29	67	12	48	28	---	39	34	56	27	19	27	13
30	58	12	42	315	---	e350	31	63	27	24	27	11
31	22	---	38	258	---	166	---	42	---	169	32	---
TOTAL	691.20	2,119.4	4,195	1,436	4,263	6,771	9,063	6,110	4,474	3,301	3,851	776
MEAN	22.3	70.6	135	46.3	152	218	302	197	149	106	124	25.9
MAX	189	504	868	315	832	1,890	3,000	1,210	1,410	1,520	1,450	141
MIN	0.43	7.9	11	25	41	39	31	28	25	19	22	11
CFSM	0.29	0.92	1.77	0.61	1.99	2.86	3.95	2.58	1.95	1.39	1.62	0.34
IN.	0.34	1.03	2.04	0.70	2.07	3.29	4.41	2.97	2.18	1.61	1.87	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY)

MEAN	48.9	35.9	63.7	129	156	160	94.7	46.0	34.1	36.2	43.1	29.6
MAX	372	161	261	331	351	425	302	197	149	238	318	161
(WY)	(1991)	(1986)	(1984)	(1978)	(1990)	(1980)	(2003)	(2003)	(2003)	(1978)	(1995)	(1987)
MIN	0.39	0.36	4.27	11.5	22.4	25.8	12.9	4.45	1.26	1.51	0.34	0.15
(WY)	(1984)	(2002)	(2002)	(1981)	(2002)	(1985)	(2001)	(2001)	(1986)	(2002)	(2001)	(1968)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1961 - 2003	
ANNUAL TOTAL	12,177.47		47,050.60		72.7	
ANNUAL MEAN	33.4		129		150	
HIGHEST ANNUAL MEAN					1991	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	868	Dec 13	3,000	Apr 10	6,700	Aug 27, 1995
LOWEST DAILY MEAN	0.06	Jul 6	0.43	Oct 6	0.00	Oct 6, 1968
ANNUAL SEVEN-DAY MINIMUM	0.07	Jul 18	0.77	Oct 1	0.00	Oct 7, 1970
MAXIMUM PEAK FLOW			6,120	Apr 10	9,970	Aug 27, 1995
MAXIMUM PEAK STAGE			18.58*	Apr 10	21.94	Aug 27, 1995
INSTANTANEOUS LOW FLOW			0.42*	Oct 5	0.00*	Oct 5, 1968
ANNUAL RUNOFF (CFSM)	0.44		1.69		0.95	
ANNUAL RUNOFF (INCHES)	5.92		22.88		12.91	
10 PERCENT EXCEEDS	65		311		131	
50 PERCENT EXCEEDS	9.0		39		18	
90 PERCENT EXCEEDS	0.25		14		2.3	

e Estimated.  
 \* See REMARKS.

