

0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'29", long 77°47'40", Lenoir County, Hydrologic Unit 03020202, at downstream side of bridge on Secondary Road 1326, 0.7 mi west of Mays Store, and 1.0 mi downstream of Secondary Road 1002.

DRAINAGE AREA.--57.7 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating extension above 3,000 ft³/s on basis of slope conveyance of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for current water year occurred on several days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	23	58	54	54	74	62	32	23	20	250	16
2	33	22	52	51	49	64	72	31	27	19	181	15
3	32	22	49	48	48	56	77	30	31	27	124	14
4	74	22	46	52	56	50	64	27	30	21	84	14
5	53	23	43	50	53	46	55	26	29	18	63	13
6	42	22	42	47	49	43	49	221	26	17	51	13
7	36	21	41	42	46	41	46	470	44	15	44	13
8	32	27	41	38	44	42	61	296	61	14	38	13
9	30	22	40	38	42	44	58	190	43	14	97	13
10	29	20	45	37	40	41	50	125	39	13	279	13
11	27	20	46	34	37	39	45	91	33	13	136	13
12	26	27	43	42	35	38	41	73	29	13	83	13
13	30	163	42	36	34	37	60	63	26	13	62	14
14	32	120	38	67	34	36	249	55	24	18	51	e29
15	30	84	35	108	36	36	194	50	22	34	47	42
16	30	63	34	84	35	40	129	47	20	19	42	29
17	27	53	34	70	36	156	99	44	19	16	42	25
18	26	47	34	59	34	188	96	40	19	15	39	23
19	27	43	33	52	32	137	77	39	18	66	35	21
20	28	40	33	50	31	128	61	39	17	97	31	21
21	28	39	32	50	31	118	53	40	16	80	27	29
22	27	37	32	48	32	97	48	36	16	48	25	32
23	26	56	33	46	31	124	44	34	15	405	24	25
24	25	73	33	42	46	191	43	32	15	148	33	22
25	25	72	32	42	63	142	39	31	14	80	28	21
26	25	63	38	41	56	111	36	30	15	51	24	20
27	24	48	47	40	49	93	36	28	14	39	21	20
28	23	78	44	37	64	85	33	26	16	32	20	20
29	23	75	43	35	---	81	32	25	26	65	19	18
30	24	65	51	51	---	71	32	24	24	147	18	17
31	24	---	55	61	---	65	---	24	---	85	17	---
TOTAL	953	1,490	1,269	1,552	1,197	2,514	2,041	2,319	751	1,662	2,035	591
MEAN	30.7	49.7	40.9	50.1	42.8	81.1	68.0	74.8	25.0	53.6	65.6	19.7
MAX	74	163	58	108	64	191	249	470	61	405	279	42
MIN	23	20	32	34	31	36	32	24	14	13	17	13
CFSM	0.53	0.86	0.71	0.87	0.74	1.41	1.18	1.30	0.43	0.93	1.14	0.34
IN.	0.61	0.96	0.82	1.00	0.77	1.62	1.32	1.50	0.48	1.07	1.31	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	60.9	49.4	58.0	91.7	84.9	98.7	76.2	64.2	56.2	49.1	64.0	129
MAX	316	119	148	266	306	230	204	216	201	156	231	1,401
(WY)	(2000)	(1993)	(2004)	(1993)	(1998)	(1998)	(1998)	(1989)	(1995)	(2003)	(1992)	(1999)
MIN	17.2	15.8	21.5	29.0	40.1	35.3	26.5	19.8	13.2	12.5	12.8	17.6
(WY)	(1995)	(1995)	(1995)	(1995)	(2001)	(1988)	(1995)	(1994)	(1994)	(1993)	(1993)	(1994)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	23,087		18,374		73.4	
ANNUAL MEAN	63.1		50.3		169	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					31.7	
HIGHEST DAILY MEAN	576	May 4	470	May 7	8,000	Sep 16, 1999
LOWEST DAILY MEAN	17	Aug 11	13	Jul 10	8.4	Aug 18, 1997
ANNUAL SEVEN-DAY MINIMUM	20	Jul 26	13	Sep 5	9.2	Aug 12, 1997
MAXIMUM PEAK FLOW			542	May 7	11,000*	Sep 16, 1999
MAXIMUM PEAK STAGE			7.81	May 7	16.04*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			12*	Jul 11	7.7	Aug 18, 1997
ANNUAL RUNOFF (CFSM)	1.09		0.872		1.27	
ANNUAL RUNOFF (INCHES)	14.88		11.85		17.27	
10 PERCENT EXCEEDS	116		85		142	
50 PERCENT EXCEEDS	45		38		41	
90 PERCENT EXCEEDS	24		18		18	

* See REMARKS.

e Estimated.

