

## 0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'29", long 77°47'39", 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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating extension above 3,000 ft<sup>3</sup>/s on basis of slope conveyance of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for current water year also occurred Oct. 3.

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	14	39	28	43	33	121	79	50	486	30	178	38
2	13	38	26	54	32	103	74	46	280	109	142	36
3	14	38	26	54	31	91	69	42	210	511	119	34
4	14	38	26	50	31	79	65	40	185	208	111	48
5	15	39	52	45	30	73	61	38	162	126	117	90
6	15	45	74	42	28	182	50	81	136	91	144	63
7	15	47	63	39	54	283	58	89	117	71	153	54
8	16	45	53	38	64	196	109	69	124	57	136	49
9	18	43	46	36	55	151	247	55	118	45	123	44
10	19	42	42	35	62	116	534	46	105	41	117	41
11	21	43	42	33	79	95	569	40	92	54	214	39
12	37	68	46	32	68	84	372	36	84	72	174	36
13	31	124	51	31	57	76	288	32	79	124	257	34
14	27	90	86	31	50	71	240	30	71	451	171	33
15	23	63	75	30	48	66	203	28	66	283	142	31
16	23	50	62	29	55	68	173	30	78	172	189	29
17	24	72	52	32	263	74	141	29	68	133	395	28
18	23	122	47	31	190	71	116	28	65	248	348	55
19	22	93	43	30	133	66	103	72	63	234	243	186
20	22	73	51	29	105	126	96	80	57	169	167	120
21	23	60	61	29	86	426	91	63	52	140	136	84
22	24	52	54	29	76	307	117	55	48	111	115	70
23	24	46	48	29	99	217	102	226	44	109	101	79
24	25	41	46	27	84	171	79	339	41	183	127	87
25	27	37	57	27	73	135	68	225	32	149	93	80
26	28	35	54	27	64	108	68	474	29	127	74	68
27	29	33	48	27	69	91	70	592	27	167	61	59
28	31	32	44	26	143	83	64	390	26	132	53	56
29	37	30	42	26	---	89	58	275	31	117	48	51
30	39	29	39	28	---	88	54	233	34	180	44	45
31	38	---	38	32	---	86	---	260	---	205	40	---
TOTAL	731	1,607	1,522	1,051	2,162	3,993	4,418	4,093	3,010	4,849	4,532	1,767
MEAN	23.6	53.6	49.1	33.9	77.2	129	147	132	100	156	146	58.9
MAX	39	124	86	54	263	426	569	592	486	511	395	186
MIN	13	29	26	26	28	66	50	28	26	30	40	28
CFSM	0.41	0.93	0.85	0.59	1.34	2.23	2.55	2.29	1.74	2.71	2.53	1.02
IN.	0.47	1.04	0.98	0.68	1.39	2.57	2.85	2.64	1.94	3.13	2.92	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	61.9	47.3	53.4	96.7	87.5	103	77.8	60.3	57.7	48.7	62.6	139
MAX	316	119	133	266	306	230	204	216	201	156	231	1,401
(WY)	(2000)	(1993)	(1993)	(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)

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1988 - 2003
ANNUAL TOTAL	15,475	33,735	
ANNUAL MEAN	42.4	92.4	74.5
HIGHEST ANNUAL MEAN			169
LOWEST ANNUAL MEAN			31.7
HIGHEST DAILY MEAN	367	Apr 1	592
LOWEST DAILY MEAN	10	Aug 6	13
ANNUAL SEVEN-DAY MINIMUM	11	Aug 2	14
MAXIMUM PEAK FLOW			666
MAXIMUM PEAK STAGE		8.34	Apr 10
INSTANTANEOUS LOW FLOW		13*	Apr 10
ANNUAL RUNOFF (CFSM)	0.73	1.60	1.29
ANNUAL RUNOFF (INCHES)	9.98	21.75	17.54
10 PERCENT EXCEEDS	82	199	144
50 PERCENT EXCEEDS	30	61	40
90 PERCENT EXCEEDS	14	28	17

\* See REMARKS.

0208925200 BEAR CREEK AT MAYS STORE, NC—Continued

