TENNESSEE RIVER BASIN

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC

LOCATION.--Lat 35°28'54", long 82°38'05", Buncombe County, Hydrologic Unit 06010105, on right bank 70 ft below trail footbridge, 300 ft downstream from culvert under Bent Creek Gap Road, 0.4 mi west of Lake Powhatan, and at Bent Creek Research Station well cluster number 2.

DRAINAGE AREA.--1.03 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2004 to November 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,177.77 ft above NGVD of 1929 (levels by North Carolina Department of Environment and Natural Resources). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for 2005 water year also occurred Sept. 24, 25. Minimum discharge for 2006 water year also occurred Oct. 18.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

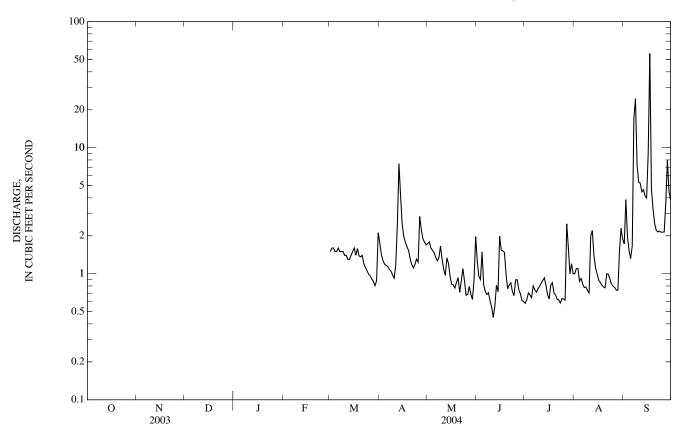
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	 	 	 	 	 	e1.5 e1.6 e1.6 e1.5	1.8 1.4 1.3 1.2	1.7 1.8 1.6 1.5	1.3 0.95 0.90 1.5	0.58 0.62 0.71 0.68	e1.0 e1.1 e1.1 0.87	1.7 3.9 2.0 1.5
5						e1.5	1.2	1.5	0.82	0.65	0.92	1.3
6 7 8		 		 		e1.6 e1.5 e1.5	1.1 1.1 1.1	1.4 1.3 1.3	0.72 0.68 0.71	0.80 0.75 0.71	0.83 0.78 0.79	1.7 17 24
9 10						e1.5 e1.4	0.98 0.92	1.7 1.3	0.61 0.54	0.76 0.79	0.74 0.70	7.4 5.3
11						e1.4	1.2	1.1	0.45	0.84	2.0	5.2
12 13						e1.3 e1.3	2.5 7.5	0.97 1.3	0.55 0.81	0.88 0.93	2.2 1.4	4.5 4.6
14						e1.4	4.2	1.2	0.72	0.81	1.1	4.1
15						e1.5	2.5	0.95	2.0	0.68	1.0	4.0
16 17						e1.6	2.0	0.82 0.82	1.5	0.63	0.89	9.2 e56
18						e1.4 1.6	1.8 1.6	0.82	1.5 1.5	0.81 0.85	0.85 0.81	4.7
19						1.4	1.5	0.86	0.99	0.71	0.79	3.3
20						1.4	1.3	0.93	0.76	0.68	0.77	2.5
21 22						e1.4 e1.2	1.2 1.1	0.71 0.87	0.81 0.85	0.63 0.62	1.00 0.99	2.2 2.1
23						1.1	1.2	1.1	0.72	0.59	0.91	2.2
24						1.1	1.3	0.88	0.67	0.64	0.83	2.1
25						0.99	1.2	0.67	0.89	0.63	0.80	2.1
26 27						0.96 0.91	2.8 2.2	0.69 0.79	0.90 0.75	0.62 2.5	0.78 0.74	2.1 3.7
28						0.91	1.9	0.79	0.73	1.6	0.74	7.9
29						0.80	1.8	0.62	0.61	e1.0	1.5	4.5
30						0.88	1.7	0.91	0.60	e1.2	2.3	3.9
31						2.1		2.0		e1.0	1.9	
TOTAL						41.81	54.60	34.75	27.00	25.90	33.13	196.7
MEAN						1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX						2.1	7.5	2.0	2.0	2.5	2.3	56
MIN						0.80	0.92	0.62	0.45	0.58	0.70	1.3
CFSM						1.31 1.51	1.77	1.09	0.87 0.98	0.81 0.94	1.04 1.20	6.37
IN.							1.97	1.26		0.94	1.20	7.10
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	5 2004 - 2004	, BY WATE	ER YEAR (V	VY)			
MEAN						1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX						1.35	1.82	1.12	0.90	0.84	1.07	6.56
(WY)						(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN (WY)						1.35 (2004)	1.82 (2004)	1.12 (2004)	0.90 (2004)	0.84 (2004)	1.07 (2004)	6.56 (2004)

SUMMARY STATISTICS

FOR 2004 WATER YEAR

INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE INSTANTANEOUS LOW FLOW NOT DETERMINED 4.91 Sep 17 0.34 Jun 12

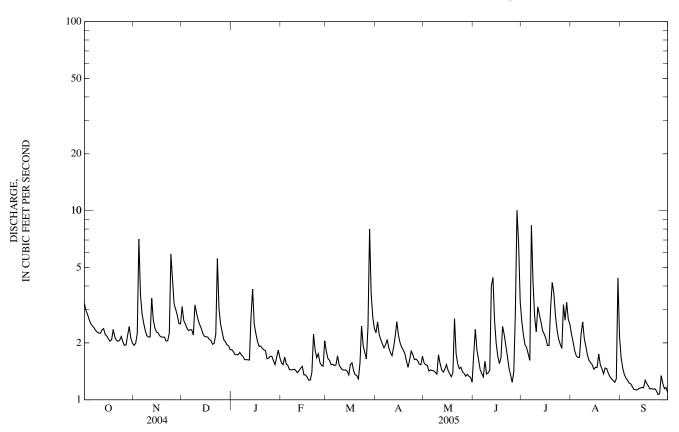
e Estimated.



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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.2 3.0 2.8 2.7 2.5	1.9 2.0 2.2 7.1 3.6	3.1 2.6 2.5 2.4 2.3	1.8 1.8 1.7 1.7	1.6 1.5 1.7 1.5 1.5	1.8 1.7 1.6 1.5 1.5	2.3 2.6 2.2 2.1 2.0	1.6 1.5 1.5 1.4 1.4	1.8 2.4 1.8 1.6 1.4	2.6 2.2 2.0 1.9 1.7	2.2 2.0 1.8 1.7 1.7	1.7 1.5 1.4 1.3 1.3
6 7 8 9 10	2.5 2.4 2.3 2.3 2.3	2.8 2.5 2.3 2.2 2.1	2.3 2.3 2.2 3.2 2.9	1.8 1.7 1.7 1.6 1.6	1.4 1.4 1.4 1.5 1.4	1.5 1.5 1.7 1.5 1.5	1.9 2.0 2.1 1.9 1.8	1.4 1.4 1.4 1.4	1.4 1.3 1.6 1.4 1.4	1.6 8.4 4.2 2.8 2.3	1.7 2.2 2.6 2.1 1.9	1.2 1.2 1.2 1.1 1.1
11 12 13 14 15	2.2 2.3 2.4 2.2 2.2	2.1 3.4 2.6 2.4 2.3	2.6 2.5 2.4 2.2 2.2	1.6 1.6 2.8 3.9 2.5	1.4 1.4 1.5 1.5	1.4 1.4 1.4 1.4	1.7 1.9 2.2 2.6 2.2	1.6 1.4 1.4 1.5 1.5	1.4 4.0 4.4 2.6 2.0	3.1 2.8 2.6 2.3 2.2	1.7 1.6 1.6 1.5 1.4	1.1 1.1 1.2 1.2 1.2
16 17 18 19 20	2.1 2.0 2.1 2.4 2.1	2.3 2.2 2.1 2.1 2.1	2.2 2.1 2.1 2.1 2.0	2.2 2.0 1.9 1.9	1.4 1.3 1.3 1.3 1.4	1.5 1.6 1.4 1.4 1.3	2.0 1.9 1.8 1.8 1.6	1.4 1.4 1.3 1.4 2.7	1.7 1.6 1.7 2.4 2.2	2.1 1.9 1.9 3.1 4.2	1.5 1.5 1.7 1.5 1.5	1.3 1.2 1.2 1.1 1.1
21 22 23 24 25	2.1 2.0 2.1 2.2 2.0	2.0 2.1 2.3 5.9 4.3	2.0 2.2 5.6 3.0 2.5	1.8 1.8 1.6 1.7	2.2 1.8 1.7 1.8 1.6	1.3 1.6 2.5 1.9 1.8	1.5 1.6 1.8 1.7 1.6	1.7 1.6 1.5 1.5	1.9 1.7 1.5 1.4 1.2	3.7 2.8 2.3 2.1 2.0	1.4 1.5 1.5 1.4 1.3	1.1 1.1 1.1 1.1 1.1
26 27 28 29 30 31	1.9 2.0 2.2 2.4 2.1 2.0	3.2 3.0 2.8 2.5 2.5	2.3 2.1 2.0 2.0 1.9 1.8	1.7 1.6 1.5 1.7 1.8 1.7	1.5 1.5 2.1 	1.6 2.4 8.0 3.6 2.7 2.4	1.6 1.6 1.5 1.5 1.7	1.4 1.3 1.4 1.3 1.3	1.4 2.9 10 6.7 3.3	1.9 3.2 2.6 3.3 2.7 2.5	1.3 1.3 1.2 1.3 4.4 2.2	1.3 1.2 1.1 1.2 1.1
TOTAL MEAN MAX MIN CFSM IN.	71.0 2.29 3.2 1.9 2.22 2.56	82.9 2.76 7.1 1.9 2.68 2.99	75.6 2.44 5.6 1.8 2.37 2.73	58.0 1.87 3.9 1.5 1.82 2.09	43.0 1.54 2.2 1.3 1.49 1.55	59.8 1.93 8.0 1.3 1.87 2.16	56.7 1.89 2.6 1.5 1.83 2.05	45.9 1.48 2.7 1.2 1.44 1.66	72.1 2.40 10 1.2 2.33 2.60	85.0 2.74 8.4 1.6 2.66 3.07	54.2 1.75 4.4 1.2 1.70 1.96	36.1 1.20 1.7 1.1 1.17 1.30
STATIST	TICS OF MO	ONTHLY M	EAN DATA	A FOR WAT	ER YEARS	2004 - 2005	, BY WATE	ER YEAR (W	VY)			
MEAN MAX (WY) MIN (WY)	2.29 2.29 (2005) 2.29 (2005)	2.76 2.76 (2005) 2.76 (2005)	2.44 2.44 (2005) 2.44 (2005)	1.87 1.87 (2005) 1.87 (2005)	1.54 1.54 (2005) 1.54 (2005)	1.64 1.93 (2005) 1.35 (2004)	1.85 1.89 (2005) 1.82 (2004)	1.30 1.48 (2005) 1.12 (2004)	1.65 2.40 (2005) 0.90 (2004)	1.79 2.74 (2005) 0.84 (2004)	1.41 1.75 (2005) 1.07 (2004)	3.88 6.56 (2004) 1.20 (2005)
SUMMA	RY STATIS	STICS		FOR 2004 C	CALENDAR	YEAR	FOR 2005 WATER YEAR			WATER YEARS 2004 - 2005		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				56 Sep 17 0.45 Jun 11 0.61 Jun 6			:	1.1 Se 1.1 Se 53 Ju 3.19 Ju	n 28 p 9 p 19 n 28 n 28 p 23	2.03 2.03 2.03 56 Sep 17, 2004 0.45 Jun 11, 2004 0.61 Jun 6, 2004 NOT DETERMINED 4.91 Sep 17, 2004 1.97 26.75 2.8 1.8 1.3		

^{*} See REMARKS.



DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1.1	0.92												
2	1.1	0.90												
3 4	1.1 1.1	0.90 0.92												
5	1.1	0.92												
6	2.7	0.92												
7 8	1.9 1.6	0.92 0.92												
9	1.3	0.92												
10	1.3	1.0												
11	1.2	0.98												
12 13	1.2 1.2	0.98 1.00												
14	1.2	1.0												
15	1.1	1.1												
16 17	1.1 0.91	2.1 1.1												
18	0.85	1.0												
19 20	$0.86 \\ 0.88$	0.98 0.98												
21	0.91	2.7												
22	0.91	2.3												
23 24	0.92 0.91	1.3 1.1												
25	0.91	1.0												
26	0.92	0.99												
27	0.92	1.00												
28 29	0.92 0.92	2.7 11												
30	0.92	3.1												
31	0.92													
TOTAL MEAN	34.88 1.13	47.65 1.59												
MAX	2.7	11												
MIN CFSM	0.85 1.09	0.90 1.54												
IN.	1.26	1.72												
STATIST	TICS OF MO	ONTHLY M	EAN DAT	A FOR WAT	ΓER YEARS	S 2004 - 200	6, BY WATE	ER YEAR (V	VY)					
MEAN	1.71	2.18	2.44	1.87	1.54	1.64	1.85	1.30	1.65	1.79	1.41	3.88		
MAX	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	6.56		
(WY) MIN	(2005) 1.13	(2005) 1.59	(2005) 2.44	(2005) 1.87	(2005) 1.54	(2005) 1.35	(2005) 1.82	(2005) 1.12	(2005) 0.90	(2005) 0.84	(2005) 1.07	(2004) 1.20		
(WY)	(2006)	(2006)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)		
SUMMA	RY STATIS	STICS		FOR 2005 (CALENDAF	R YEAR	FOR 200	06 WATER	YEAR	WATER YEARS 2004 - 2006				
ANNUAI HIGHES	L MEAN Γ ANNUAI	L MEAN		1 011 2000	0.100.1011		101120	00 1111210	22.21	2.03 2.03 2.03 2.03 2.03 2.005 56 Sep 17, 2004				
	Γ ANNUAL Γ DAILY M			1	1 Nov	29		11 No	v 29					
LOWEST	DAILY M	IEAN			0.85 Oc	t 18		0.85 Oct 18			0.45 Jun 11, 2004			
	L SEVEN-L JM PEAK I	DAY MINIM FLOW	IUM		0.89 Oc	t 17			et 17 v 29	0.61 Jun 6, 2004 NOT DETERMINED 4.91 Sep 17, 2004 0.34 Jun 12, 2004 1.97 26.75				
MAXIMU	JM PEAK	STAGE						2.98 No	v 29					
	L RUNOFF	LOW FLOV (CFSM)	V					0.80* Oc	et 17					
ANNUAI	L RUNOFF	(INCHÉS)												
	ENT EXCE ENT EXCE										2.8 1.8			
	90 PERCENT EXCEEDS 1.3													

^{*} See REMARKS.

