

03418070 ROARING RIVER ABOVE GAINESBORO, TN

LOCATION.--Lat 36°21'04", long 85°32'44", Jackson County, Hydrologic Unit 05130106, near left bank of downstream end of county road bridge. 1.1 mi upstream from Blackburn Fork, 6.3 mi east of Gainesboro, and at mile 9.9.

DRAINAGE AREA.--210 mi², includes 34 mi² without surface drainage.

PERIOD OF RECORD.--October 1974 to September 1991. October 1992 to September 1997, crest-stage partial record station. October 2001 to current year. Prior to December 1942 monthly discharges only, published in WSP 1306.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 520.56 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair, and those below 5.0 ft³/s, which are poor. Minimum discharge for current year and period of record, no flow many days each year. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s, Mar. 12, 1975, gage height 21.83 ft, from high-water marks; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	2030	*13,700	*18.17	Dec 9	1500	10,000	16.02
Dec 7	1130	8,310	14.76				

Minimum discharge, 0.00 ft³/s, no flow many 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	14	74	7,150	113	385	355	478	764	0.01	0.00	0.00	0.00
2	13	54	1,700	128	335	271	1,350	327	5.4	3.5	0.00	0.00
3	12	41	814	140	422	234	989	179	1.8	0.12	0.00	0.00
4	7.6	238	492	124	389	209	618	120	0.84	0.00	0.00	0.00
5	3.4	191	316	117	343	187	411	88	0.02	0.00	0.00	0.00
6	0.18	114	457	195	306	164	291	70	0.76	0.00	0.00	0.00
7	0.00	83	4,140	526	273	154	443	55	3.9	0.00	0.00	0.00
8	0.00	61	1,700	2,890	270	182	726	43	0.30	0.00	0.00	0.00
9	0.00	43	5,070	1,240	247	171	492	34	0.01	0.00	0.00	0.00
10	0.00	33	2,900	832	227	149	331	28	0.00	0.00	0.00	0.00
11	0.00	27	1,570	1,160	208	142	255	22	0.06	0.00	0.00	0.00
12	0.68	403	1,000	1,680	195	134	224	18	0.03	0.00	0.00	0.00
13	21	300	702	1,210	337	121	198	14	0.00	1.0	0.00	0.00
14	20	159	493	1,660	933	108	191	13	0.05	6.2	0.00	0.00
15	18	110	347	1,020	749	99	162	19	3.7	85	0.00	0.00
16	14	87	272	769	580	104	134	12	0.99	42	0.00	0.00
17	3.2	72	e220	598	425	107	115	9.1	0.00	8.0	0.00	0.00
18	2.8	59	e190	446	342	98	103	7.1	0.00	0.16	0.30	0.00
19	494	52	e180	389	292	92	91	5.3	0.00	0.00	0.00	0.00
20	275	47	e170	347	607	85	80	726	0.00	0.00	0.00	0.00
21	109	44	e145	307	1,820	79	71	234	0.00	0.00	0.00	0.00
22	65	37	139	270	1,400	77	72	67	0.00	0.00	0.00	0.00
23	42	37	1,380	238	758	90	77	37	0.00	0.00	0.00	0.00
24	40	693	635	217	560	83	65	24	0.00	0.00	0.00	0.00
25	31	608	387	210	391	77	58	16	0.00	0.00	0.00	0.00
26	21	340	279	209	300	75	57	11	0.00	0.00	0.00	0.00
27	16	245	220	185	251	73	60	7.3	0.00	0.15	0.00	0.00
28	406	239	183	167	317	128	57	4.7	0.00	0.00	0.00	0.00
29	457	189	164	566	---	149	321	2.2	0.00	0.00	0.00	0.00
30	183	4,830	146	777	---	122	2,140	1.0	0.00	0.00	0.06	0.00
31	109	---	128	515	---	434	---	0.00	---	0.00	0.00	---
TOTAL	2,377.86	9,510	33,689	19,245	13,662	4,553	10,660	2,957.70	17.87	146.13	0.36	0.00
MEAN	76.7	317	1,087	621	488	147	355	95.4	0.60	4.71	0.01	0.00
MAX	494	4,830	7,150	2,890	1,820	434	2,140	764	5.4	85	0.30	0.00
MIN	0.00	27	128	113	195	73	57	0.00	0.00	0.00	0.00	0.00
CFSM	0.44	1.80	6.17	3.53	2.77	0.83	2.02	0.54	0.00	0.03	0.00	0.00
IN.	0.50	2.01	7.12	4.07	2.89	0.96	2.25	0.63	0.00	0.03	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

	MEAN	68.7	182	439	520	600	560	374	279	84.9	34.0	41.7	72.1
MAX	476	539	1,440	1,271	1,671	2,507	1,015	1,361	483	147	331	261	
(WY)	(1990)	(1980)	(1991)	(1979)	(2003)	(1975)	(1979)	(1984)	(1981)	(1989)	(1982)	(1982)	
MIN	0.00	0.39	0.43	0.22	74.3	36.6	8.05	0.46	0.00	0.06	0.00	0.00	
(WY)	(1979)	(1981)	(1981)	(1981)	(1981)	(1983)	(1986)	(1985)	(1984)	(1984)	(1975)	(1976)	

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	132,708.73		96,818.92		270	
ANNUAL MEAN	363		265		455	
HIGHEST ANNUAL MEAN					83.0	
LOWEST ANNUAL MEAN					15,800	
HIGHEST DAILY MEAN	12,800	Feb 6	7,150	Dec 1	Mar 13, 1975	
LOWEST DAILY MEAN	0.00	Jul 18	0.00	Oct 7	Oct 28, 1974	
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 13	0.00	Jun 17	Oct 28, 1974	
MAXIMUM PEAK FLOW			13,700	Nov 30	22,400	
MAXIMUM PEAK STAGE			18.17	Nov 30	21.83	
INSTANTANEOUS LOW FLOW			a0.00	Oct 6	Mar 12, 1975	
ANNUAL RUNOFF (CFSM)	2.06		1.51		1.53	
ANNUAL RUNOFF (INCHES)	28.05		20.46		20.83	
10 PERCENT EXCEEDS	669		612		640	
50 PERCENT EXCEEDS	120		65		45	
90 PERCENT EXCEEDS	0.65		0.00		0.00	

a See REMARKS.

e Estimated