

TENNESSEE RIVER BASIN

03524000 CLINCH RIVER AT CLEVELAND, VA

LOCATION.--Lat 36°56'41", long 82°09'18", Russell County, Hydrologic Unit 06010205, on right bank 500 ft upstream from highway bridge at Cleveland, 0.5 mi downstream from Muddy Hollow, 2.3 mi downstream from Weaver Creek, 4.4 mi downstream from Thompson Creek, and at mile 271.6.

DRAINAGE AREA.--528 mi².

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1921-23(M), 1926(M), 1929-31(M). WSP 1706: 1927(M).

GAGE.--Water-stage recorder. Datum of gage is 1,500.24 ft above sea level. Prior to Nov. 1, 1931, nonrecording gage on highway bridge 500 ft downstream at datum 1.0 ft lower.

REMARKS.--Records good except for period of no gage-height record, May 18-20, which is fair. National Weather Service gage-height telemeter at station. Maximum discharge, 34,500 ft³/s, from rating curve extended above 26,000 ft³/s on basis of contracted-opening measurement at gage height 24.40 ft. Minimum gage height, 0.96 ft, Feb. 10, 1934. Several measurements of water temperature made during the year. Water-quality records for some prior periods have been collected at this location.

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)
Jan 24	1545	*5,010	*8.24	No other peak greater than base discharge.			

Minimum discharge, 47 ft³/s, Sep 4-5, gage height, 1.19 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	87	82	225	490	1780	479	815	193	221	564	55
2	185	86	80	219	470	1430	480	673	182	155	767	53
3	131	92	78	838	451	1840	454	577	173	128	457	51
4	121	93	77	1230	418	3390	424	505	163	118	296	48
5	112	94	79	700	384	2480	401	456	155	106	223	52
6	104	98	84	523	352	2410	372	438	146	97	180	90
7	99	94	90	417	341	2560	352	413	139	90	152	211
8	113	88	208	354	348	2030	337	519	133	84	136	182
9	154	87	782	492	337	1580	334	578	128	79	144	129
10	168	86	557	1040	320	1520	324	459	123	90	128	115
11	144	106	315	833	304	1430	495	398	119	218	113	109
12	119	116	224	599	308	1240	1690	356	114	184	102	86
13	105	115	503	485	353	1080	1120	337	108	251	95	74
14	96	108	848	434	333	1050	825	428	106	200	89	69
15	90	103	565	2310	318	1400	717	434	106	158	86	66
16	86	95	364	2490	325	1790	700	366	106	127	101	63
17	85	92	282	1380	351	2330	597	315	114	109	96	61
18	83	88	243	1360	594	2310	523	e290	113	100	82	58
19	82	85	207	1930	926	2020	476	e390	106	97	75	55
20	83	84	188	1380	1130	1580	451	e375	101	98	85	56
21	82	85	180	984	968	1350	428	320	97	109	103	57
22	81	84	235	743	776	1240	397	278	93	141	122	65
23	80	84	416	836	647	1050	364	267	90	245	104	60
24	78	84	630	3860	572	938	361	347	93	263	85	56
25	78	83	598	3780	528	853	340	508	93	296	80	53
26	78	88	449	2030	504	758	337	398	93	300	77	52
27	78	91	350	1330	472	681	440	321	98	277	82	56
28	81	91	297	978	994	616	1350	274	154	215	74	61
29	89	87	271	758	---	566	1450	246	206	268	70	88
30	86	86	261	619	---	527	1060	224	287	465	64	125
31	86	---	253	522	---	487	---	208	---	863	59	---
TOTAL	3258	2760	9796	35679	14314	46316	18078	12513	3932	6152	4891	2356
MEAN	105	92.0	316	1151	511	1494	603	404	131	198	158	78.5
MAX	201	116	848	3860	1130	3390	1690	815	287	863	767	211
MIN	78	83	77	219	304	487	324	208	90	79	59	48
CFSM	.20	.17	.60	2.18	.97	2.83	1.14	.76	.25	.38	.30	.15
IN.	.23	.19	.69	2.51	1.01	3.26	1.27	.88	.28	.43	.34	.17

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	262	396	772	1141	1374	1439	1019	799	484	326	313	208
MAX	1389	2011	3043	2817	3360	4572	3414	2254	2016	972	1640	1003
(WY)	1977	1978	1927	1937	1957	1955	1987	1958	1923	1938	1940	1989
MIN	53.8	64.0	80.7	92.1	206	309	228	195	79.7	78.2	63.2	55.3
(WY)	1931	1940	1940	1940	1941	1988	1942	1941	1930	1930	1988	1930

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1921 - 1999
ANNUAL TOTAL	330057	160045	
ANNUAL MEAN	904	438	708
HIGHEST ANNUAL MEAN			1076
LOWEST ANNUAL MEAN			287
HIGHEST DAILY MEAN	10900	Apr 17	3860
LOWEST DAILY MEAN	73	aSep 19	48
ANNUAL SEVEN-DAY MINIMUM	75	Sep 15	55
INSTANTANEOUS PEAK FLOW			5010
INSTANTANEOUS PEAK STAGE			8.24
INSTANTANEOUS LOW FLOW			47
ANNUAL RUNOFF (CFSM)	1.71	.83	1.34
ANNUAL RUNOFF (INCHES)	23.25	11.28	18.22
10 PERCENT EXCEEDS	2230	1100	1560
50 PERCENT EXCEEDS	451	224	373
90 PERCENT EXCEEDS	85	80	97

- a Also Sep 20, 1998.
- b Also Sep 28, 1964.
- c Also Sep 5, 1999.
- e Estimated.

