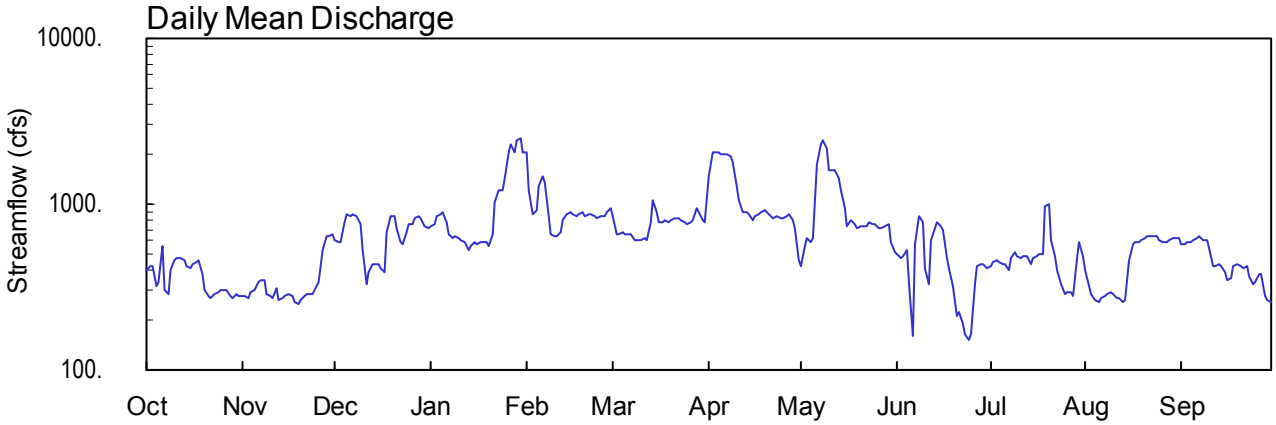
MOBILE RIVER BASIN

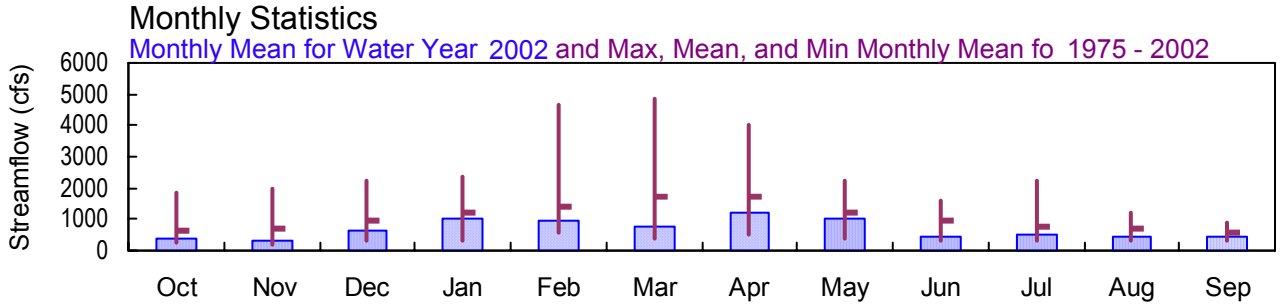
2002 Water Year

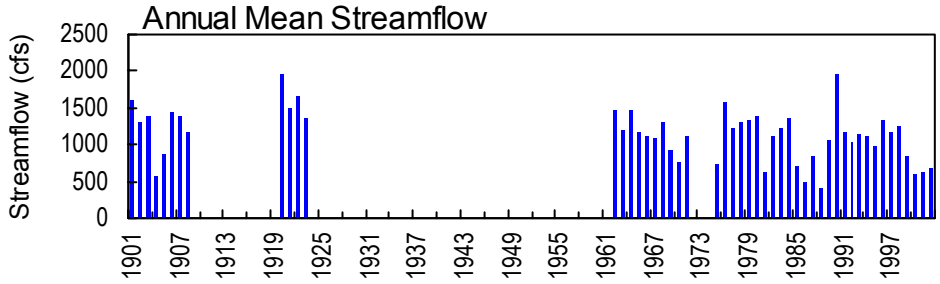
02382500 COOSAWATTEE RIVER AT CARTERS, GA

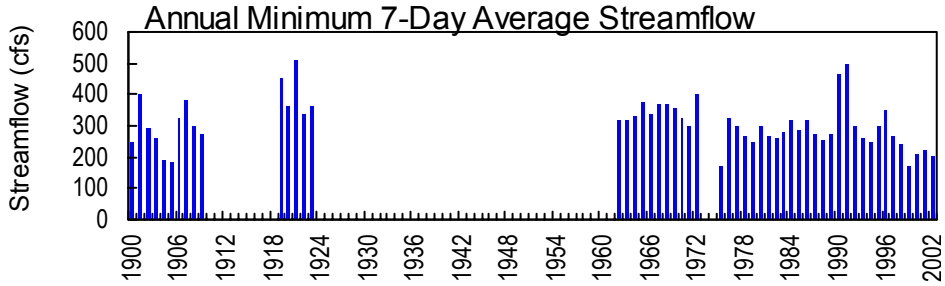
Latitude: 34°36'13" Longitude: 84°41'44" Hydrologic Unit Code: 03150102 Murray County

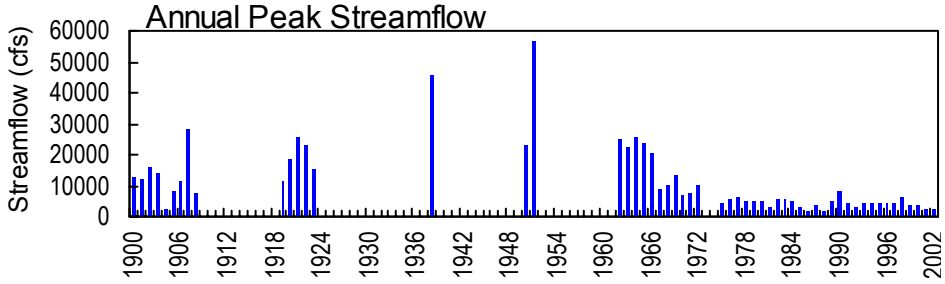
Drainage Area: 521. mi^2 Datum: 650.67 feet











MOBILE RIVER BASIN
2002 Water Year

02382500 COOSAWATTEE RIVER AT CARTERS, GA

LOCATION.—Lat 34°36'13", long 84°41'44" referenced to North American Datum (NAD) of 1927, Murray County, Hydrologic Unit 03150102, on downstream side of center bridge pier on US 411 at Carters, 200.0 feet upstream from Louisville & Nashville Railroad bridge, 0.4 miles downstream from Carters re-regulation dam, and 0.6 miles downstream from Talking Rock Creek.

DRAINAGE AREA.—521 mi^2.

COOPERATION.—U.S. Army Corps of Engineers, Mobile District.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—September 1896 to December 1908, October 1918 to September 1923, October 1961 to September 1972, October 1974 to current year. Monthly discharge only for October to November 1918 published in WSP 1304.

REVISED RECORDS.—WDR GA-80-1: Drainage area.

GAGE.—Phone telemetry with a water-stage recorder. Datum of gage is 650.67 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by Corps of Engineers). Prior to September 1923, a non-recording gage was located at a site 0.2 miles upstream at datum 2.00 feet higher.

REMARKS.—Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. Statistics prior to regulation are available upon request.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of March 29 or 30, 1951, reached a stage of about 36 feet, from flood marks; discharge 57,000 ft^3/s, from rating curve extended above 24,000 ft^3/s.

WATER-STAGE RECORDS

PERIOD OF RECORD.—September 1896 to December 1908, October 1918 to September 1923, October 1961 to September 1972, October 1974 to current year.

GAGE.—Phone telemetry with a water-stage recorder. Datum of gage is 650.67 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by Corps of Engineers). Prior to September 1923, a non-recording gage was located at a site 0.2 miles upstream at datum 2.00 feet higher.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 8.54 feet, June 30; minimum gage-height recorded, 2.40 feet, January 31, due to regulation of upstream dam.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02382500 COOSAWATTEE RIVER AT CARTERS, GA SOURCE AGENCY USGS STATE 13 COUNTY 213
LATITUDE 343613 LONGITUDE 0844144 NAD27 DRAINAGE AREA 521.00* CONTRIBUTING DRAINAGE AREA 521 DATUM 650.67 NGVD29
Date Processed: 2003-03-11 12:58 By acday
APPROVED
DD #2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	280	603	743	2040	848	1480	429	504	424	402	579
2	425	278	584	767	1220	654	2040	555	476	447	319	575
3	422	272	584	851	878	658	2060	630	492	460	287	584
4	325	298	781	876	922	675	2080	597	523	444	266	589
5	335	304	881	890	1280	664	2000	624	339	430	254	602
6	551	335	850	789	1480	651	2010	1760	159	435	270	618
7	300	351	870	668	1360	652	2020	2300	582	399	281	635
8	288	344	850	624	853	614	1960	2460	838	473	287	605
9	404	284	757	639	661	600	1770	2170	770	511	291	600
10	458	283	532	618	645	606	1280	1600	414	489	287	537
11	468	269	332	614	645	623	1070	1600	328	475	271	419
12	469	315	393	589	671	615	896	1590	614	484	270	428
13	456	262	432	527	798	775	906	1430	725	484	259	433
14	429	271	440	552	880	1050	860	1220	787	436	263	426
15	414	282	435	587	889	897	811	956	727	478	458	393
16	430	289	407	578	866	772	849	737	703	488	577	351
17	450	280	392	587	852	778	880	793	474	506	592	363
18	459	260	673	590	870	793	896	768	413	503	590	422
19	375	247	841	594	906	784	912	710	324	974	599	434
20	302	265	858	560	858	801	883	742	214	998	620	426
21	282	280	709	652	867	816	842	727	225	601	633	408
22	270	290	597	1030	871	814	825	733	191	488	635	428
23	284	287	576	1230	846	800	843	781	167	403	634	371
24	293	286	672	1230	813	770	828	755	151	329	643	333
25	300	318	767	1440	846	767	834	764	163	286	610	340
26	307	342	765	2070	847	775	853	720	334	294	584	382
27	305	525	819	2290	886	796	861	707	425	295	594	382
28	283	639	853	2040	955	934	794	743	435	279	613	283
29	275	649	834	2410	---	890	711	763	431	479	622	266
30	287	664	745	2530	---	792	457	590	410	593	625	255
31	283	---	724	2030	---	785	---	507	---	492	616	---
TOTAL	11330	10049	20556	32195	26505	23449	35511	31461	13338	14877	14252	13467
MEAN	365	335	663	1039	947	756	1184	1015	445	480	460	449
MAX	551	664	881	2530	2040	1050	2080	2460	838	998	643	635
MIN	270	247	332	527	645	600	457	429	151	279	254	255
CFSM	0.70	0.64	1.27	1.99	1.82	1.45	2.27	1.95	0.85	0.92	0.88	0.86
IN.	0.81	0.72	1.47	2.30	1.89	1.67	2.54	2.25	0.95	1.06	1.02	0.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

MEAN	608	734	947	1222	1423	1727	1694	1222	932	790	674	552
MAX	1852	2008	2211	2384	4651	4861	4004	2217	1573	2247	1219	871
(WY)	1990	1978	1983	1978	1990	1990	1977	1984	1989	1976	1984	1990
MIN	224	222	289	309	572	369	530	407	330	328	311	299
(WY)	1999	1999	1989	1988	2000	1988	1986	1986	1988	1988	1993	1998

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1975 - 2002	
ANNUAL TOTAL	239782		246990			
ANNUAL MEAN	657		677		1042	
HIGHEST ANNUAL MEAN					1945	1990
LOWEST ANNUAL MEAN					399	1988
HIGHEST DAILY MEAN	2450	Jun 5	2530	Jan 30	6580	Feb 16 1990
LOWEST DAILY MEAN	187	Jan 8	151	Jun 24	122	Nov 15 1974
ANNUAL SEVEN-DAY MINIMUM	221	Jan 12	205	Jun 19	172	Nov 27 1998
MAXIMUM PEAK FLOW			2720	Jan 30	8370	Feb 16 1990
MAXIMUM PEAK STAGE			8.53	Jan 30	18.94	Feb 16 1990
ANNUAL RUNOFF (CFSM)	1.26		1.30		2.00	
ANNUAL RUNOFF (INCHES)	17.12		17.64		27.16	
10 PERCENT EXCEEDS	1190		1010		2070	
50 PERCENT EXCEEDS	602		600		784	
90 PERCENT EXCEEDS	283		283		315	

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LATITUDE 343613 LONGITUDE 0844144 NAD27 DRAINAGE AREA 521.00 CONTRIBUTING DRAINAGE AREA 521* DATUM 650.67 NGVD29
Date Processed: 2003-03-11 12:56 By acday
APPROVED
DD #3
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.29	3.97	4.81	5.13	7.42	5.34	6.44	4.37	4.87	4.66	4.30	4.75
2	4.36	3.96	4.76	5.18	6.05	4.92	7.43	4.68	4.80	4.72	4.07	4.74
3	4.35	3.95	4.76	5.36	5.41	4.93	7.46	4.87	4.84	4.76	3.99	4.76
4	4.09	4.02	5.20	5.41	5.50	4.97	7.49	4.79	4.92	4.71	3.93	4.77
5	4.12	4.03	5.42	5.44	6.16	4.95	7.37	4.86	4.45	4.68	3.90	4.80
6	4.62	4.12	5.35	5.23	6.53	4.92	7.38	6.88	3.98	4.69	3.94	4.84
7	4.02	4.16	5.40	4.95	6.31	4.92	7.39	7.85	4.94	4.60	3.97	4.88
8	3.99	4.14	5.35	4.85	5.35	4.83	7.30	8.11	5.53	4.79	3.99	4.81
9	4.30	3.98	5.16	4.89	4.94	4.80	6.99	7.64	5.41	4.89	4.00	4.80
10	4.44	3.98	4.61	4.84	4.90	4.81	6.19	6.73	4.62	4.83	3.99	4.64
11	4.47	3.94	4.11	4.83	4.90	4.85	5.79	6.73	4.41	4.80	3.94	4.34
12	4.47	4.06	4.27	4.77	4.96	4.83	5.45	6.72	5.07	4.82	3.94	4.36
13	4.44	3.92	4.37	4.62	5.24	5.18	5.47	6.47	5.33	4.82	3.91	4.38
14	4.37	3.94	4.40	4.68	5.42	5.75	5.38	6.15	5.44	4.70	3.92	4.36
15	4.33	3.97	4.38	4.77	5.44	5.45	5.27	5.72	5.33	4.81	4.43	4.27
16	4.37	3.99	4.31	4.74	5.39	5.19	5.35	5.35	5.29	4.83	4.74	4.16
17	4.42	3.97	4.27	4.77	5.36	5.20	5.42	5.45	4.76	4.88	4.78	4.19
18	4.45	3.91	4.94	4.78	5.39	5.23	5.45	5.41	4.63	4.87	4.78	4.35
19	4.22	3.89	5.34	4.78	5.47	5.22	5.48	5.30	4.41	5.65	4.80	4.38
20	4.03	3.93	5.37	4.70	5.37	5.25	5.42	5.36	4.12	5.62	4.85	4.36
21	3.97	3.97	5.04	4.91	5.39	5.28	5.34	5.33	4.15	4.80	4.88	4.31
22	3.94	3.99	4.79	5.71	5.40	5.28	5.30	5.34	4.07	4.52	4.88	4.36
23	3.98	3.99	4.74	6.09	5.35	5.25	5.34	5.43	4.01	4.30	4.88	4.21
24	4.00	3.99	4.96	6.10	5.28	5.18	5.31	5.38	3.97	4.10	4.90	4.11
25	4.02	4.07	5.18	6.45	5.35	5.18	5.32	5.40	4.00	3.99	4.82	4.13
26	4.04	4.14	5.17	7.49	5.35	5.19	5.36	5.32	4.43	4.01	4.76	4.24
27	4.03	4.60	5.29	7.84	5.43	5.24	5.38	5.29	4.67	4.01	4.78	4.24
28	3.98	4.89	5.36	7.43	5.57	5.52	5.24	5.36	4.69	3.97	4.83	3.98
29	3.96	4.91	5.32	8.04	---	5.43	5.05	5.40	4.68	4.48	4.85	3.93
30	3.99	4.95	5.13	8.22	---	5.23	4.43	5.05	4.63	4.78	4.86	3.91
31	3.98	---	5.08	7.17	---	5.22	---	4.88	---	4.53	4.84	---
MEAN	4.19	4.11	4.92	5.62	5.52	5.15	5.93	5.73	4.68	4.67	4.43	4.41