2004 Water Year

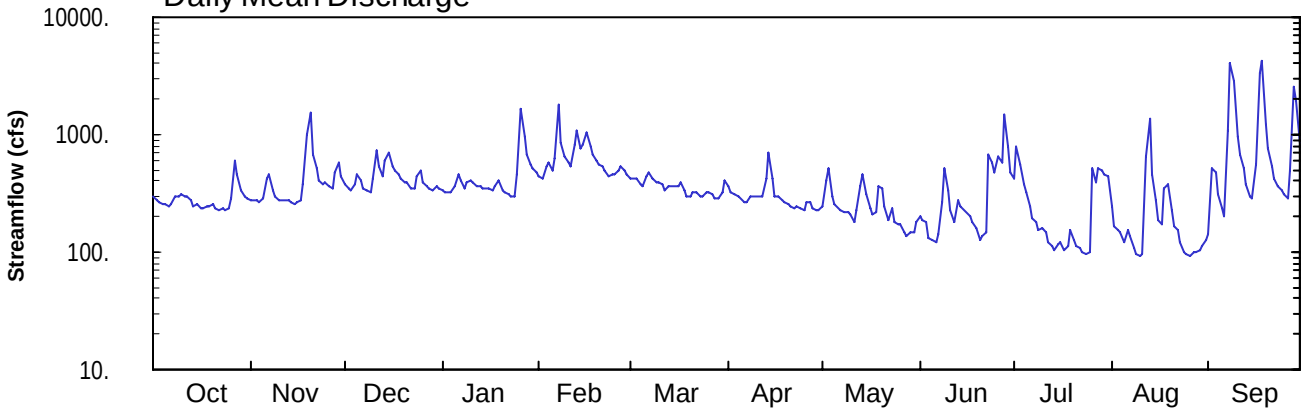
ALTAMAHA RIVER BASIN

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA

Latitude: 33°56'48" Longitude: 083°25'22" Hydrologic Unit Code: 03070101

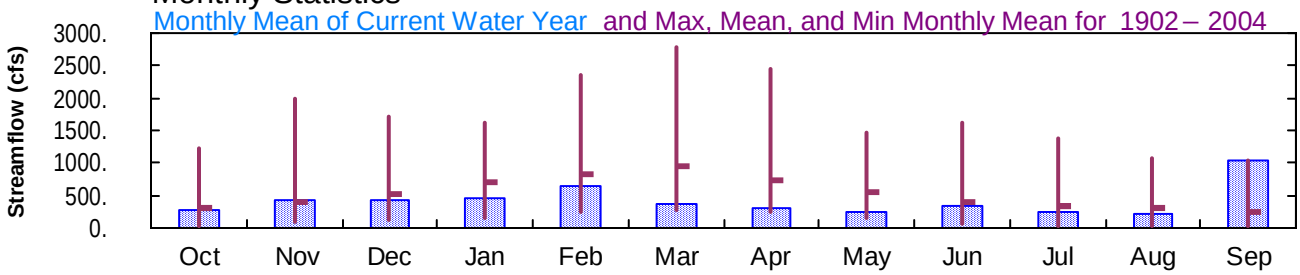
Clarke County Datum: 555.66 feet Drainage Area: 398. mi^2

Daily Mean Discharge

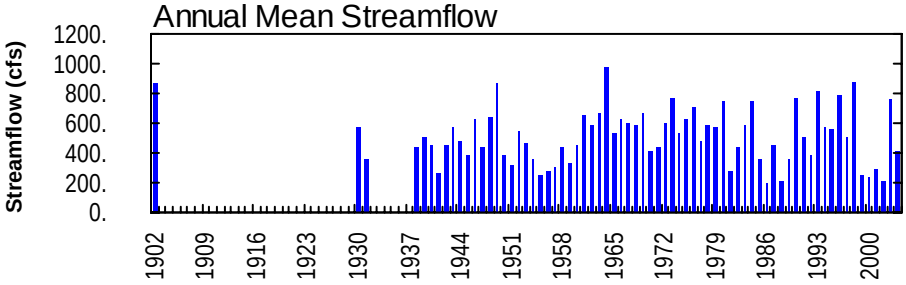


Monthly Statistics

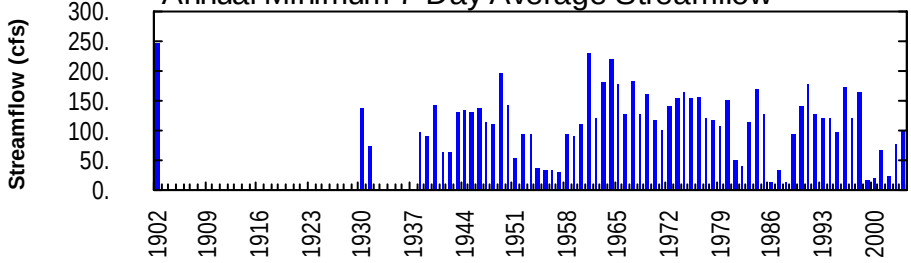
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1902 – 2004



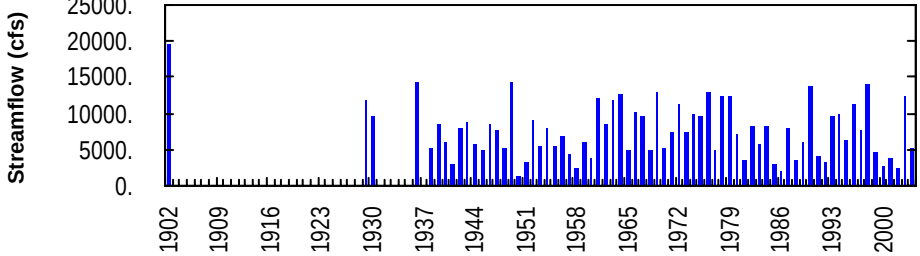
Annual Mean Streamflow

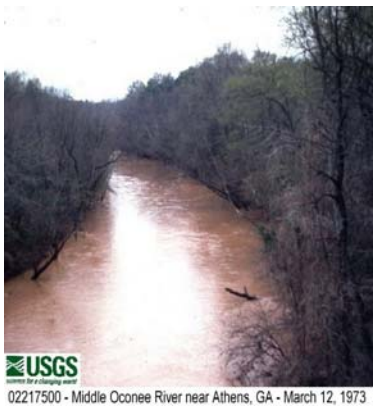


Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow





02217500 - Middle Oconee River near Athens, GA - March 12, 1973

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA

LOCATION.—Lat 33°56'48", long 83°25'22" (revised) referenced to North American Datum (NAD) of 1983, Clarke County, Hydrologic Unit 03070101, on left bank 0.5 miles upstream from US 78 and US 29 Business, 2.0 miles west of Athens, and 5.0 miles upstream from Barber Creek.

DRAINAGE AREA.—398 square miles.

COOPERATION.—Upper Oconee Water Authority.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1901 to September 1902, January 1929 to March 1932, May 1937 to current year.

REVISED RECORDS.—WDR GA-95-1: Drainage area.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 555.66 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 11, 1901 to October 25, 1902, a non-recording gage was located at site 1.0 mile upstream at different datum. From January 16, 1929 to March 15, 1932, and from April 29, 1937 to September 30, 1940, a water-stage recorder was located at a site 4.0 miles downstream at different datum.

REMARKS.—Records good.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,800 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
09/08	2200	4,780	10.70
09/18	0715	5,330*	11.54*

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—October 1901 to September 1902, January 1929 to March 1932, May 1937 to current year.

REVISED RECORDS.—WDR GA-95-1: Drainage area.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 555.66 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 11, 1901 to October 25, 1902, a non-recording gage was located at site 1.0 mile upstream at different datum. From January 16, 1929 to March 15, 1932, and from April 29, 1937 to September 30, 1940, a water-stage recorder was located at a site 4.0 miles downstream at different datum.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 11.54 feet, September 18; minimum gage-height recorded, 0.93 feet, July 17, 18, August 27.

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

STATION NUMBER 02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 059
LATITUDE 335648 LONGITUDE 0832522 NAD83 DRAINAGE AREA 398.00* CONTRIBUTING DRAINAGE AREA DATUM 555.66 NGVD29

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	295	281	384	330	435	424	357	250	199	423	245	143
2	281	276	354	323	429	416	328	410	190	800	167	513
3	269	271	336	324	545	416	309	508	177	567	151	480
4	258	269	379	324	573	375	298	296	134	380	147	306
5	251	292	451	367	486	363	285	250	126	324	123	237
6	246	427	407	457	630	433	265	236	123	246	155	205
7	256	456	352	406	1800	470	264	230	142	196	137	1070
8	298	334	331	355	846	429	300	217	270	176	108	4110
9	294	297	316	385	647	393	300	218	525	151	96	2850
10	305	281	432	411	569	397	297	210	332	161	94	969
11	301	278	720	393	530	371	294	183	229	148	95	666
12	294	280	542	366	809	333	295	224	177	121	648	506
13	279	275	443	356	1090	364	430	367	279	113	1350	377
14	243	262	596	350	762	357	697	462	241	102	455	301
15	256	257	694	345	838	360	430	311	227	116	277	288
16	240	260	533	344	1050	368	304	232	222	121	189	557
17	237	272	493	330	795	389	295	208	205	105	171	3360
18	243	371	462	367	671	336	280	220	183	111	343	4180
19	250	1010	421	400	600	303	270	356	159	151	379	1200
20	253	1530	388	341	551	294	259	352	127	126	224	765
21	232	671	387	328	525	318	249	246	135	112	164	536
22	231	515	355	308	498	324	238	188	148	110	153	426
23	234	409	353	302	440	304	245	233	684	102	121	366
24	230	380	443	294	461	297	235	179	583	98	100	336
25	233	389	501	452	461	326	226	171	482	98	97	306
26	283	361	395	1630	499	325	268	173	652	515	94	290
27	596	344	365	975	529	308	270	145	570	386	102	486
28	463	473	353	690	500	286	236	139	1500	522	101	2570
29	336	574	339	565	452	285	224	149	782	490	104	1950
30	301	441	356	518	---	320	224	148	481	467	113	845
31	284	---	354	471	---	405	---	177	---	436	125	---
TOTAL	8772	12536	13235	13807	19021	11089	8972	7688	10284	7974	6828	31194
MEAN	283	418	427	445	656	358	299	248	343	257	220	1040
MAX	596	1530	720	1630	1800	470	697	508	1500	800	1350	4180
MIN	230	257	316	294	429	285	224	139	123	98	94	143
CFSM	0.71	1.05	1.07	1.12	1.65	0.90	0.75	0.62	0.86	0.65	0.55	2.61
IN.	0.82	1.17	1.24	1.29	1.78	1.04	0.84	0.72	0.96	0.75	0.64	2.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2004, BY WATER YEAR (WY)

MEAN	304	402	532	705	820	938	724	537	406	340	298	256
MAX	1223	2002	1709	1624	2366	2779	2458	1475	1611	1374	1056	1040
(WY)	1996	1949	1984	1972	1902	1929	1964	1976	1963	2003	1994	2004
MIN	42.3	93.1	118	140	251	285	233	162	63.6	25.3	36.4	44.6
(WY)	1955	2002	2002	1956	1986	1988	1986	1988	1988	1986	2002	1999

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1902 - 2004	
ANNUAL TOTAL	256430		151400			
ANNUAL MEAN	703		414		516	
HIGHEST ANNUAL MEAN					977	1964
LOWEST ANNUAL MEAN					202	1986
HIGHEST DAILY MEAN	10700	Mar 21	4180	Sep 18	19600	Feb 28 1902
LOWEST DAILY MEAN	230	Oct 24	94	Aug 10 a	8.2	Aug 8 1986
ANNUAL SEVEN-DAY MINIMUM	238	Oct 19	102	Aug 24	12	Jul 17 1986
MAXIMUM PEAK FLOW			5330	Sep 18	19600	Feb 28 1902
MAXIMUM PEAK STAGE			11.54	Sep 18	25.50	Feb 28 1902
INSTANTANEOUS LOW FLOW			86	Jul 17 b	17	Sep 13 2002
ANNUAL RUNOFF (CFSM)	1.77		1.04		1.30	
ANNUAL RUNOFF (INCHES)	23.97		14.15		17.60	
10 PERCENT EXCEEDS	1050		649		905	
50 PERCENT EXCEEDS	495		324		345	
90 PERCENT EXCEEDS	290		144		140	

a Also Aug 26
b Also Jul 18, Aug 27

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LATITUDE 335648 LONGITUDE 0832522 NAD83 DRAINAGE AREA 398.00* CONTRIBUTING DRAINAGE AREA DATUM 555.66 NGVD29

Gage height, feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.43	1.52	1.72	1.62	1.80	1.78	1.67	1.45	1.32	1.77	1.44	1.15
2	1.41	1.51	1.67	1.61	1.79	1.77	1.62	1.75	1.30	2.45	1.23	1.90
3	1.40	1.50	1.63	1.61	1.97	1.77	1.58	1.91	1.26	2.00	1.18	1.86
4	1.39	1.49	1.71	1.61	2.01	1.71	1.56	1.55	1.12	1.70	1.16	1.57
5	1.39	1.54	1.82	1.69	1.87	1.68	1.53	1.45	1.10	1.61	1.09	1.42
6	1.39	1.78	1.75	1.82	2.14	1.79	1.49	1.42	1.09	1.44	1.19	1.34
7	1.43	1.82	1.66	1.75	4.84	1.85	1.48	1.40	1.14	1.31	1.13	3.23
8	1.53	1.63	1.62	1.67	2.52	1.79	1.56	1.37	1.49	1.26	1.03	9.61
9	1.54	1.56	1.60	1.72	2.14	1.73	1.56	1.37	1.93	1.18	0.98	7.01
10	1.57	1.52	1.79	1.76	2.00	1.74	1.55	1.35	1.62	1.21	0.97	2.79
11	1.56	1.52	2.27	1.73	1.94	1.69	1.55	1.28	1.40	1.17	0.97	2.17
12	1.55	1.52	1.96	1.69	2.47	1.63	1.55	1.39	1.26	1.08	2.22	1.90
13	1.52	1.51	1.81	1.67	3.06	1.68	1.79	1.67	1.51	1.05	3.76	1.70
14	1.43	1.48	2.05	1.66	2.35	1.67	2.23	1.84	1.43	1.00	1.82	1.56
15	1.47	1.47	2.23	1.65	2.50	1.68	1.78	1.58	1.40	1.06	1.51	1.54
16	1.43	1.48	1.94	1.65	2.97	1.69	1.57	1.41	1.38	1.08	1.29	2.04
17	1.42	1.50	1.88	1.63	2.42	1.72	1.55	1.35	1.34	1.01	1.24	8.16
18	1.44	1.69	1.83	1.69	2.18	1.63	1.52	1.38	1.28	1.04	1.59	9.56
19	1.45	3.00	1.77	1.74	2.05	1.57	1.50	1.63	1.21	1.18	1.70	3.33
20	1.46	4.19	1.72	1.64	1.97	1.55	1.47	1.66	1.10	1.09	1.39	2.36
21	1.41	2.18	1.72	1.62	1.93	1.60	1.45	1.44	1.13	1.05	1.22	1.95
22	1.41	1.91	1.67	1.58	1.89	1.61	1.42	1.29	1.17	1.04	1.19	1.78
23	1.41	1.75	1.66	1.57	1.80	1.57	1.44	1.41	2.27	1.00	1.08	1.69
24	1.40	1.71	1.81	1.55	1.83	1.56	1.42	1.27	2.03	0.98	1.00	1.63
25	1.41	1.72	1.90	1.82	1.83	1.62	1.39	1.24	1.87	0.99	0.98	1.57
26	1.52	1.68	1.73	4.43	1.89	1.62	1.49	1.25	2.16	1.92	0.97	1.54
27	2.05	1.65	1.68	2.81	1.93	1.58	1.50	1.16	2.01	1.71	1.00	1.88
28	1.84	1.85	1.66	2.21	1.89	1.53	1.42	1.14	4.10	1.94	1.00	6.62
29	1.63	2.01	1.64	1.99	1.82	1.53	1.39	1.18	2.40	1.88	1.01	5.14
30	1.56	1.80	1.67	1.92	---	1.60	1.39	1.17	1.86	1.84	1.05	2.52
31	1.53	---	1.67	1.84	---	1.75	---	1.26	---	1.79	1.09	---
MEAN	1.50	1.78	1.78	1.84	2.20	1.67	1.55	1.42	1.59	1.38	1.31	3.08
MAX	2.05	4.19	2.27	4.43	4.84	1.85	2.23	1.91	4.10	2.45	3.76	9.61
MIN	1.39	1.47	1.60	1.55	1.79	1.53	1.39	1.14	1.09	0.98	0.97	1.15