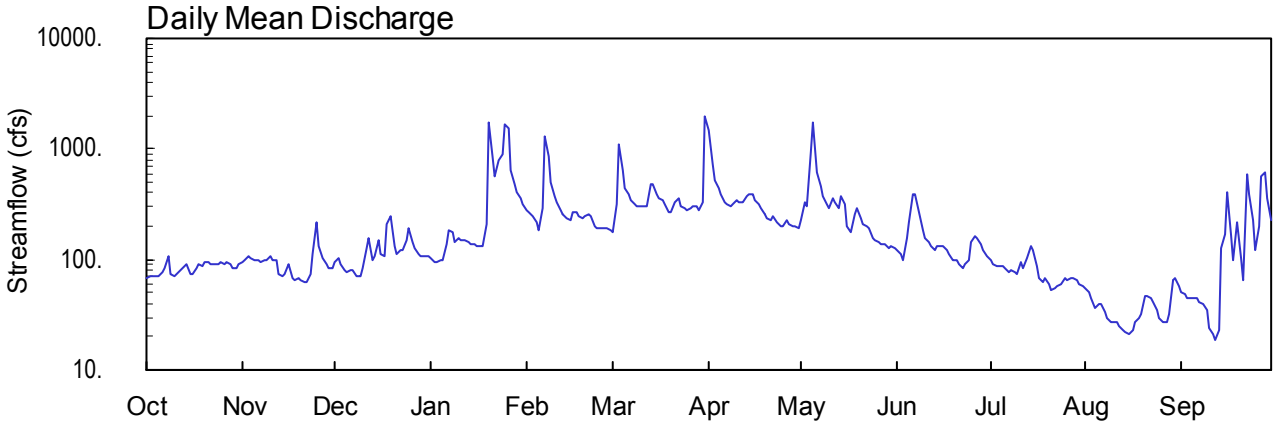
ALTAMAHA RIVER BASIN

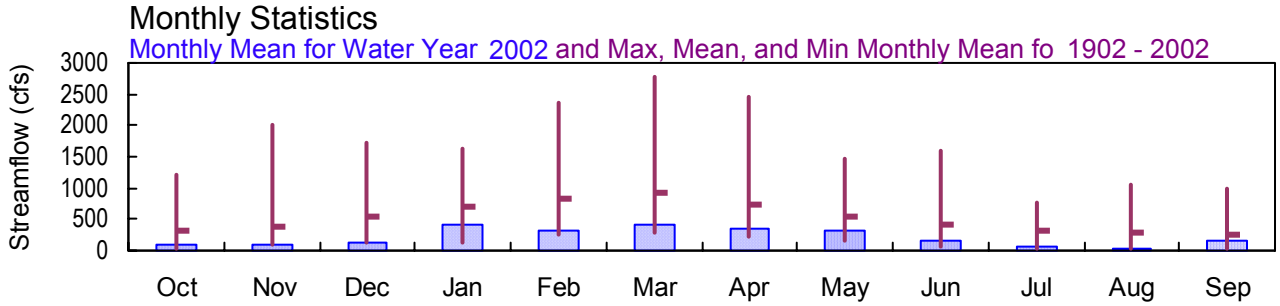
2002 Water Year

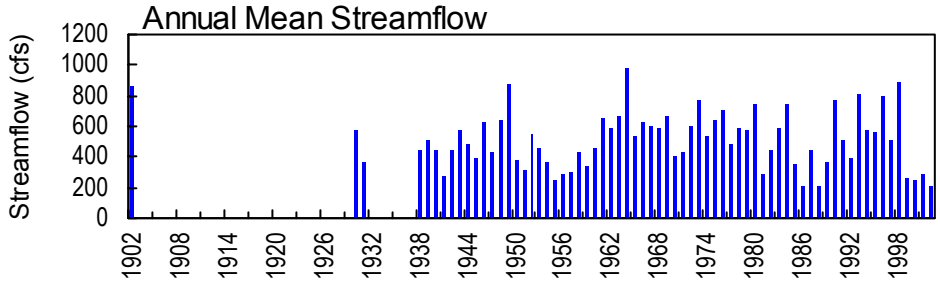
02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA

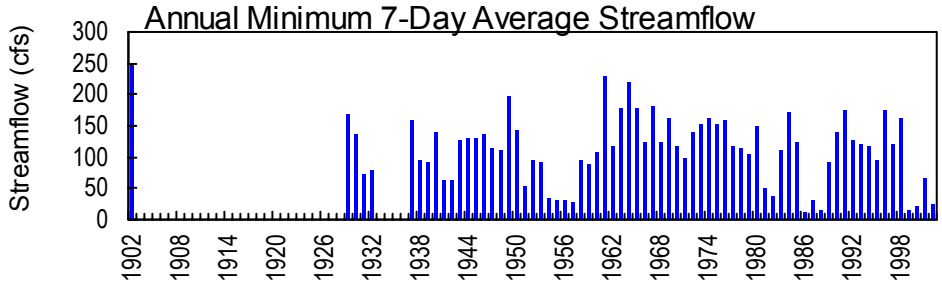
Latitude: 33°56'48" Longitude: 83°25'22" Hydrologic Unit Code: 03070101 Clarke County

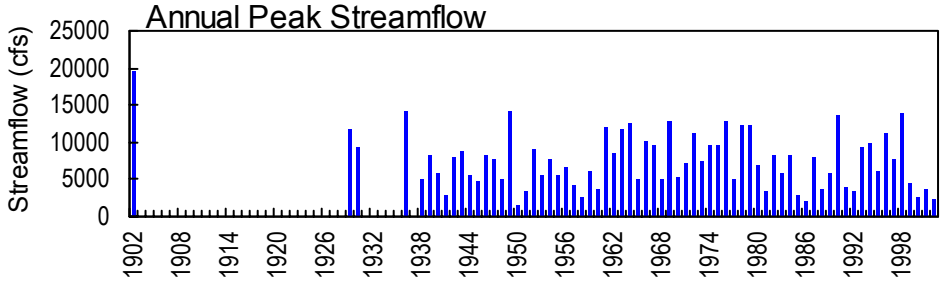
Drainage Area: 398. mi^2 Datum: 555.66 feet











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 mi^2.

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, except periods of estimated discharge which are fair.

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

DATE	TIME	DISCHARGE (ft^3/s)	GAGE-HEIGHT (ft)
Mar. 31	1715	2,510*	6.64*

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, 6.64 feet, March 31; minimum gage-height recorded, 0.41 feet, September 13.

PRECIPITATION RECORDS

PERIOD OF RECORD.—March 2, 2001 to current year.

GAGE.—Tipping-bucket raingage.

REMARKS.—Records fair.

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

STATION NUMBER 02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA SOURCE AGENCY USGS STATE 13 COUNTY 059
LATITUDE 335648 LONGITUDE 0832522 NAD83 DRAINAGE AREA 398.00* CONTRIBUTING DRAINAGE AREA DATUM 555.66 NGVD29
Date Processed: 2003-03-11 09:13 By acday
APPROVED
DD #1, DCP

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	67	96	95	104	283	180	1490	226	120	98	54	51
2	70	100	102	95	266	317	715	330	114	90	51	48
3	70	105	89	96	243	1090	511	298	100	87	45	44
4	70	104	79	100	222	637	437	920	158	87	36	45
5	70	99	78	99	187	450	388	1720	219	86	40	45
6	76	97	80	137	293	384	336	623	389	84	40	44
7	83	96	81	186	1290	344	316	452	386	76	33	42
8	109	97	72	174	846	318	304	378	267	79	30	40
9	73	98	71	143	494	305	315	321	187	77	27	35
10	72	106	85	157	379	307	349	297	158	74	27	24
11	75	99	126	151	325	299	335	355	144	93	27	21
12	79	99	154	148	283	309	323	331	134	82	25	19
13	87	75	99	143	255	473	371	289	123	103	23	23
14	90	72	108	140	237	477	392	380	134	130	22	124
15	75	74	149	135	231	393	394	322	131	122	21	172
16	73	92	114	134	266	353	344	197	130	88	23	402
17	85	67	107	130	263	343	313	180	121	69	27	161
18	89	66	209	133	249	316	296	260	111	63	29	99
19	88	68	245	207	241	273	261	297	98	68	32	214
20	93	66	132	1730	251	270	238	237	97	59	46	101
21	94	63	112	831	260	336	229	211	92	52	46	65
22	90	62	120	578	243	360	244	199	84	56	44	588
23	89	75	122	789	203	305	221	193	92	58	41	e390
24	90	110	147	906	195	286	199	159	97	60	35	e230
25	93	215	190	1680	192	280	204	147	146	67	29	122
26	91	130	144	1530	190	286	228	141	161	65	27	203
27	93	104	127	632	191	299	210	137	156	69	27	576
28	89	89	110	470	186	305	202	135	136	68	32	603
29	84	85	107	402	---	275	198	129	120	66	64	360
30	85	84	108	356	---	335	189	132	109	60	69	227
31	90	---	107	316	---	1950	---	125	---	57	57	---
TOTAL	2582	2793	3669	12832	8764	12855	10552	10121	4514	2393	1129	5118
MEAN	83.3	93.1	118	414	313	415	352	326	150	77.2	36.4	171
MAX	109	215	245	1730	1290	1950	1490	1720	389	130	69	603
MIN	67	62	71	95	186	180	189	125	84	52	21	19
CFSM	0.21	0.23	0.30	1.04	0.79	1.04	0.88	0.82	0.38	0.19	0.09	0.43
IN.	0.24	0.26	0.34	1.20	0.82	1.20	0.99	0.95	0.42	0.22	0.11	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2002, BY WATER YEAR (WY)

MEAN	305	398	529	713	824	939	732	535	399	326	297	243
MAX	1223	2002	1709	1624	2366	2779	2458	1475	1611	778	1056	978
(WY)	1996	1949	1984	1972	1902	1929	1964	1976	1963	1938	1994	1929
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1902 - 2002	
ANNUAL TOTAL	99946		77322			
ANNUAL MEAN	274		212		514	
HIGHEST ANNUAL MEAN					977	1964
LOWEST ANNUAL MEAN					202	1986
HIGHEST DAILY MEAN	3060	Mar 16	1950	Mar 31	19600	Feb 28 1902
LOWEST DAILY MEAN	62	Nov 22	19	Sep 12	8.2	Aug 8 1986
ANNUAL SEVEN-DAY MINIMUM	67	Nov 17	24	Aug 10	12	Jul 17 1986
MAXIMUM PEAK FLOW			2510	Mar 31	19600	Feb 28 1902
MAXIMUM PEAK STAGE			6.64	Mar 31	25.50	Feb 28 1902
INSTANTANEOUS LOW FLOW			17	Sep 13	17	Sep 13 2002
ANNUAL RUNOFF (CFSM)	0.69		0.53		1.29	
ANNUAL RUNOFF (INCHES)	9.34		7.23		17.53	
10 PERCENT EXCEEDS	485		388		905	
50 PERCENT EXCEEDS	175		130		343	
90 PERCENT EXCEEDS	75		46		140	

e Estimated

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

STATION NUMBER 02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA SOURCE AGENCY USGS STATE 13 COUNTY 059
LATITUDE 335648 LONGITUDE 0832522 NAD83 DRAINAGE AREA 398.00* CONTRIBUTING DRAINAGE AREA DATUM 555.66 NGVD29
Date Processed: 2003-03-11 09:13 By acday
APPROVED
DD #2, DCP
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	0.83	0.97	0.99	1.03	1.48	1.23	4.04	1.35	1.08	1.00	0.77	0.74
2	0.84	0.98	1.02	0.99	1.45	1.56	2.41	1.59	1.06	0.96	0.74	0.72
3	0.84	1.01	0.96	1.00	1.40	3.13	2.01	1.52	1.00	0.94	0.70	0.69
4	0.84	1.00	0.92	1.02	1.34	2.26	1.84	2.85	1.18	0.95	0.63	0.70
5	0.84	0.98	0.91	1.01	1.25	1.87	1.72	4.65	1.37	0.94	0.66	0.70
6	0.87	0.97	0.92	1.15	1.50	1.71	1.61	2.23	1.74	0.93	0.66	0.69
7	0.90	0.97	0.92	1.30	3.59	1.62	1.56	1.88	1.73	0.89	0.60	0.68
8	1.02	0.97	0.88	1.27	2.64	1.56	1.53	1.71	1.49	0.91	0.57	0.66
9	0.85	0.98	0.87	1.17	1.97	1.53	1.56	1.60	1.30	0.90	0.54	0.62
10	0.85	1.01	0.95	1.22	1.70	1.54	1.63	1.55	1.21	0.88	0.54	0.51
11	0.86	0.98	1.11	1.20	1.58	1.52	1.60	1.66	1.17	0.97	0.54	0.47
12	0.89	0.98	1.21	1.19	1.49	1.54	1.58	1.62	1.13	0.92	0.52	0.44
13	0.92	0.87	1.01	1.18	1.42	1.92	1.69	1.53	1.10	1.01	0.49	0.49
14	0.94	0.85	1.04	1.17	1.38	1.93	1.73	1.72	1.13	1.12	0.48	1.02
15	0.86	0.86	1.19	1.15	1.36	1.73	1.74	1.60	1.12	1.09	0.47	1.23
16	0.86	0.95	1.07	1.15	1.45	1.64	1.62	1.33	1.12	0.95	0.50	1.77
17	0.92	0.82	1.04	1.13	1.44	1.62	1.56	1.28	1.09	0.85	0.54	1.20
18	0.94	0.82	1.32	1.14	1.41	1.56	1.51	1.47	1.05	0.82	0.56	0.99
19	0.93	0.83	1.44	1.29	1.39	1.46	1.44	1.55	0.99	0.85	0.59	1.37
20	0.95	0.82	1.14	4.72	1.41	1.46	1.38	1.43	0.99	0.80	0.71	1.00
21	0.96	0.80	1.06	2.63	1.43	1.61	1.36	1.37	0.97	0.75	0.71	0.83
22	0.94	0.80	1.10	2.15	1.39	1.66	1.40	1.33	0.93	0.77	0.69	2.02
23	0.94	0.87	1.10	2.55	1.29	1.54	1.34	1.32	0.97	0.79	0.67	---
24	0.94	1.00	1.19	2.77	1.27	1.49	1.28	1.22	0.99	0.80	0.62	---
25	0.95	1.37	1.32	4.62	1.26	1.48	1.30	1.18	1.17	0.84	0.56	1.04
26	0.94	1.13	1.18	4.20	1.26	1.49	1.36	1.16	1.22	0.83	0.54	1.27
27	0.95	1.03	1.12	2.25	1.26	1.52	1.31	1.15	1.21	0.85	0.54	2.12
28	0.94	0.96	1.06	1.92	1.25	1.54	1.29	1.14	1.14	0.85	0.59	2.19
29	0.91	0.95	1.04	1.76	---	1.47	1.28	1.12	1.08	0.84	0.81	1.66
30	0.91	0.94	1.05	1.65	---	1.60	1.25	1.13	1.04	0.80	0.85	1.35
31	0.94	---	1.05	1.56	---	5.27	---	1.10	---	0.78	0.78	---
MEAN	0.91	0.95	1.07	1.76	1.54	1.78	1.63	1.59	1.16	0.89	0.62	---
MAX	1.02	1.37	1.44	4.72	3.59	5.27	4.04	4.65	1.74	1.12	0.85	---
MIN	0.83	0.80	0.87	0.99	1.25	1.23	1.25	1.10	0.93	0.75	0.47	---

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LATITUDE 335648 LONGITUDE 0832522 NAD83 DRAINAGE AREA 398.00* CONTRIBUTING DRAINAGE AREA DATUM 555.66 NGVD29
Date Processed: 2003-03-11 09:13 By acday
APPROVED
DD #3, DCP
PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.30	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	1.63	---	---	---	0.01	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.46	---	---	---	0.00	0.00	0.00
4	0.00	0.00	0.00	0.10	0.00	0.06	---	---	---	0.00	0.00	0.00
5	0.06	0.00	0.00	0.14	0.00	0.00	---	---	---	0.00	0.00	0.00
6	0.12	0.00	0.00	0.74	0.86	0.00	---	---	---	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.84	0.00	---	---	---	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.47	0.00	---	---	---	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.06	---	---	---	0.00	0.00	0.00
10	0.00	0.00	0.09	0.00	0.00	0.00	---	---	---	0.58	0.00	0.00
11	0.00	0.00	0.02	0.00	0.00	0.01	---	---	---	0.01	0.00	0.00
12	0.01	0.00	0.03	0.19	0.00	1.03	---	---	---	0.00	0.00	0.00
13	0.00	0.00	0.03	0.00	0.00	0.17	---	---	---	---	0.00	0.87
14	0.17	0.00	0.00	0.00	0.00	0.00	---	---	---	---	0.00	3.18
15	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	0.00	0.82
16	0.00	0.00	0.01	0.00	0.00	0.00	---	---	---	---	0.00	0.00
17	0.00	0.00	0.01	0.00	0.00	0.00	---	---	---	---	0.03	0.00
18	0.00	0.00	0.01	0.02	0.00	0.00	---	---	---	0.00	0.06	0.45
19	0.00	0.00	0.01	1.92	0.01	0.00	---	---	---	0.00	0.02	0.00
20	0.00	0.00	0.00	0.00	0.24	0.16	---	---	0.00	0.00	0.01	0.01
21	0.00	0.00	0.01	0.17	0.00	0.50	---	---	0.00	0.00	0.00	0.11
22	0.00	0.00	0.81	0.70	0.00	0.00	---	---	0.42	0.00	0.00	0.00
23	0.00	0.57	0.38	0.12	0.00	0.00	---	---	0.01	0.51	0.00	---
24	0.00	0.03	0.00	0.59	0.00	0.00	---	---	0.00	0.08	0.00	---
25	0.00	0.01	0.00	0.41	0.00	0.00	---	---	0.06	0.00	0.43	0.58
26	0.00	0.01	0.00	0.00	0.01	0.26	---	---	0.63	0.00	0.04	0.66
27	0.00	0.00	0.00	0.00	0.00	0.01	---	---	0.11	0.00	0.00	0.09
28	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.42	0.00	0.21	0.00
29	0.00	0.00	0.00	0.00	---	0.00	---	---	0.00	0.00	0.00	0.00
30	0.00	0.02	0.00	0.00	---	0.25	---	---	0.03	0.00	0.02	0.00
31	0.00	---	0.00	0.02	---	---	---	---	---	0.00	0.00	---
TOTAL	0.36	0.64	1.41	5.12	2.44	---	---	---	---	---	0.82	---