



APALACHICOLA RIVER BASIN

2002 Water Year

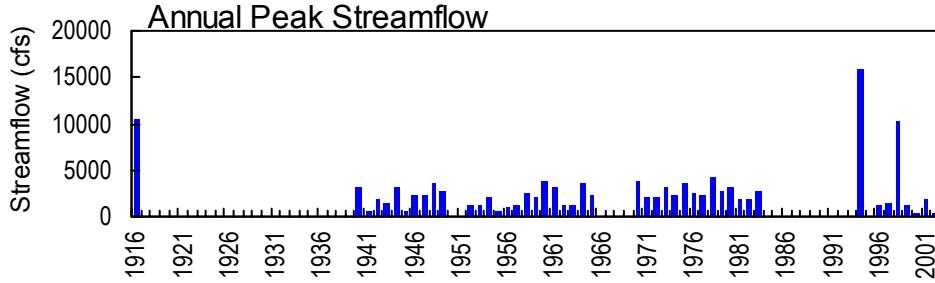
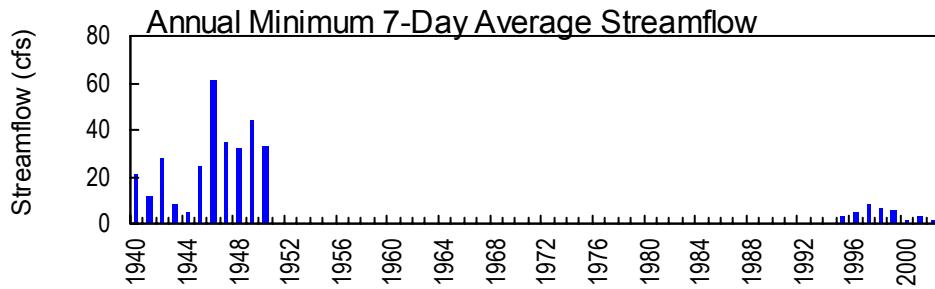
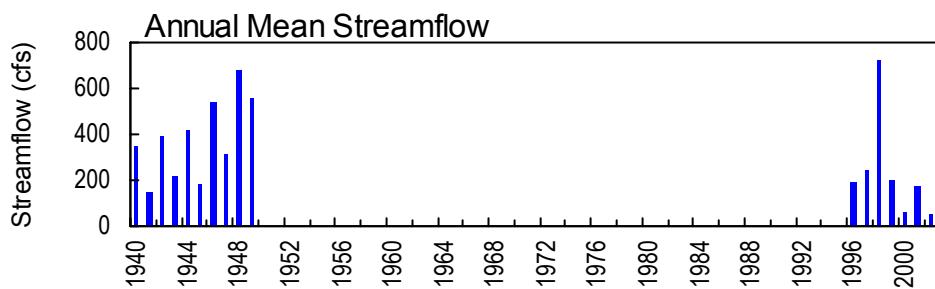
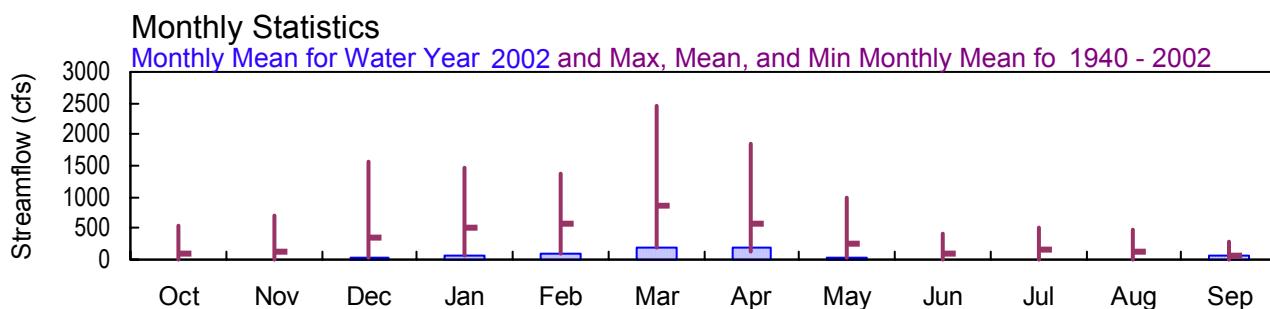
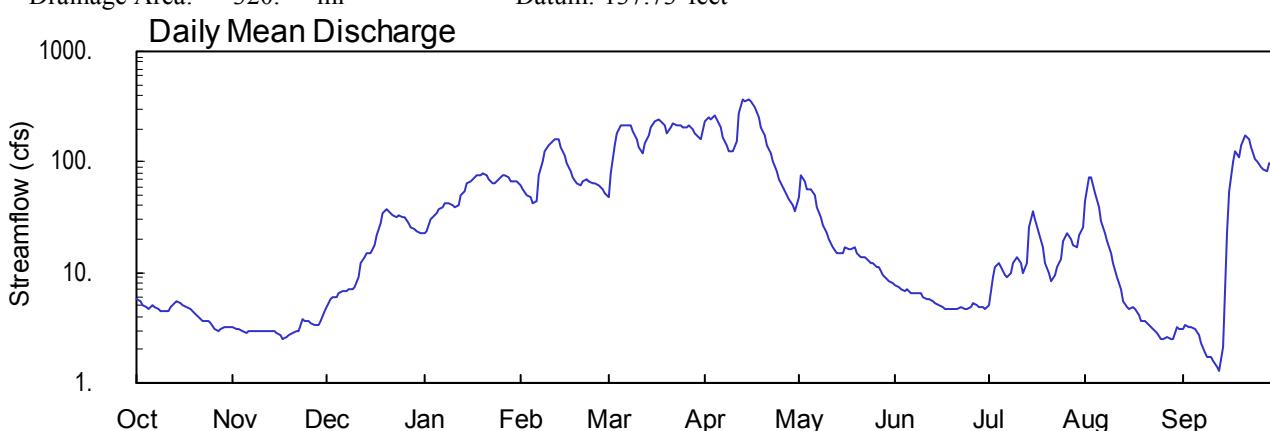
02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA

Latitude: $31^{\circ}21'02''$ Longitude: $84^{\circ}28'57''$ Hydrologic Unit Code: 03130009

Baker County

Drainage Area: 320. mi²

Datum: 137.73 feet



NO PHOTOS AVAILABLE FOR THIS SITE

**APALACHICOLA RIVER BASIN
2002 Water Year**

02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA

LOCATION.—Lat 31°21'02", long 84°28'57" referenced to North American Datum (NAD) of 1927, Baker County, Hydrologic Unit 03130009, at bridge on GA 37 at Elmodel, 2.0 miles upstream from confluence with Ichawaynochaway Creek.

DRAINAGE AREA.—320 mi².

COOPERATION.—Albany-Dougherty Planning Commission.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1939 to December 1949, water years 1952-65 and 1970-83 (annual maximum), July 1995 to current year.

GAGE.—Water-stage recorder. Datum of gage is 137.7 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by the Georgia Department of Transportation). From October 1, 1939 to October 30, 1941, a non-recording gage was located at site approximately 100 feet upstream at present datum. From October 31, 1941 to December 31, 1949, a recording gage was located at present datum. From September 25, 1951 to September 1965 and October 1970 to September 1983, a non-recording gage was located at site 100 feet upstream and present datum.

REMARKS.—Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of July 8, 1994 reached a stage of 20.0 feet, discharge 16,000 ft³/s from rating curve extended above 9,400 ft³/s. Minimum discharge observed 1.2 ft³/s, October 21, 1954.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1500 ft³/s and maximum (*):

DATE	TIME	DISCHARGE (ft ³ /s)	GAGE-HEIGHT (ft)
Apr.13	1030	396*	2.39*

No other peaks greater than base discharge

**APALACHICOLA RIVER BASIN
2002 Water Year**

02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—October 1939 to December 1949, water years 1952-65 and 1970-83 (annual maximum), July 1995 to current year.

GAGE.—Water-stage recorder. Datum of gage is 137.7 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by the Georgia Department of Transportation). From October 1, 1939 to October 30, 1941, a non-recording gage was located at site approximately 100 feet upstream at present datum. From October 31, 1941 to December 31, 1949, a recording gage was located at present datum. From September 25, 1951 to September 1965 and October 1970 to September 1983, a non-recording gage was located at site 100 feet upstream and present datum.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 2.39 feet, April 13; minimum gage-height recorded, -0.39 feet, September 12-14.

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

STATION NUMBER 02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA SOURCE AGENCY USGS STATE 13 COUNTY 007
 LATITUDE 312102 LONGITUDE 0842857 NAD27 DRAINAGE AREA 320.00* CONTRIBUTING DRAINAGE AREA DATUM 137.73 NGVD29

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DD #1

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	5.8	3.2	4.9	23	62	48	231	48	7.7	5.0	45	3.1
2	5.5	3.1	5.7	24	56	80	256	75	7.4	9.1	74	3.3
3	5.1	3.1	6.0	30	51	139	245	66	7.0	11	73	3.2
4	4.9	3.0	6.0	31	47	184	260	57	6.8	12	53	3.2
5	4.7	2.8	6.4	34	43	212	243	56	7.1	11	39	3.1
6	5.0	2.9	6.7	37	44	213	205	49	6.6	9.4	29	2.7
7	4.9	2.9	6.9	39	75	214	169	39	6.6	8.9	23	2.3
8	4.6	3.0	7.0	42	103	214	144	32	6.6	10	19	1.9
9	4.5	3.0	7.0	42	126	189	124	27	6.5	12	15	1.7
10	4.5	2.9	7.4	40	140	157	125	23	6.0	14	12	1.7
11	4.5	3.0	8.9	39	152	133	155	20	5.8	12	9.1	1.6
12	4.9	3.0	12	40	161	122	270	17	5.7	10	7.0	1.4
13	5.3	3.0	14	50	158	145	373	15	5.4	12	5.6	1.3
14	5.5	3.0	15	55	137	173	360	15	5.2	26	4.9	2.1
15	5.2	2.8	15	65	114	208	366	15	5.0	36	4.6	24
16	5.0	2.7	18	67	98	232	351	17	4.8	30	4.9	55
17	4.8	2.5	22	73	84	243	308	16	4.7	23	4.7	102
18	4.6	2.6	28	76	74	237	253	16	4.7	17	4.1	126
19	4.4	2.7	34	75	65	212	208	17	4.7	12	3.7	109
20	4.2	2.8	37	78	61	185	172	15	4.6	10	3.6	141
21	3.9	2.9	36	75	68	206	144	14	4.6	8.5	3.3	172
22	3.7	2.9	33	69	69	219	120	14	4.8	9.6	3.2	157
23	3.6	3.8	32	65	68	216	101	13	4.7	11	3.0	133
24	3.6	3.6	33	64	65	212	84	12	4.7	13	2.8	106
25	3.5	3.6	32	70	65	207	70	12	4.9	19	2.5	103
26	3.1	3.5	31	76	62	203	59	11	5.3	23	2.5	89
27	3.0	3.4	28	77	57	214	50	11	5.0	20	2.6	85
28	3.1	3.4	26	73	52	201	46	9.5	4.9	18	2.5	83
29	3.2	3.6	25	67	---	178	40	8.8	4.8	17	2.5	96
30	3.2	4.5	24	66	---	165	36	8.4	4.7	22	3.2	97
31	3.2	---	23	66	---	161	---	8.0	---	26	3.1	---
TOTAL	135.0	93.2	590.9	1728	2357	5722	5568	756.7	167.3	477.5	465.4	1710.6
MEAN	4.35	3.11	19.1	55.7	84.2	185	186	24.4	5.58	15.4	15.0	57.0
MAX	5.8	4.5	37	78	161	243	373	75	7.7	36	74	172
MIN	3.0	2.5	4.9	23	43	48	36	8.0	4.6	5.0	2.5	1.3
CFSM	0.01	0.01	0.06	0.17	0.26	0.58	0.58	0.08	0.02	0.05	0.05	0.18
IN.	0.02	0.01	0.07	0.20	0.27	0.67	0.65	0.09	0.02	0.06	0.05	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	110	135	345	506	583	846	567	247	109	153	133	78.3
MAX	540	714	1571	1479	1370	2470	1848	1004	401	507	472	275
(WY)	1949	1948	1998	1998	1998	1944	1946	1946	1940	1946	1946	1945
MIN	3.96	3.48	19.1	55.7	84.2	185	125	16.1	2.55	2.29	2.00	3.84
(WY)	2001	2002	2002	2002	2002	1999	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	62602.6	19784.9		
ANNUAL MEAN	172	54.2	320	
HIGHEST ANNUAL MEAN			723	1998
LOWEST ANNUAL MEAN			54.2	2002
HIGHEST DAILY MEAN	1780	Mar 24	9850	Mar 11 1998
LOWEST DAILY MEAN	3.1	Nov 17	1.3	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	3.2	Nov 15	1.4	Aug 23 2000
MAXIMUM PEAK FLOW		396	10400	Mar 11 1998
MAXIMUM PEAK STAGE		2.39	17.09	Mar 11 1998
INSTANTANEOUS LOW FLOW		1.2	1.2	Sep 12 2002
ANNUAL RUNOFF (CFSM)	0.54	0.17	1.000	
ANNUAL RUNOFF (INCHES)	7.28	2.30	13.59	
10 PERCENT EXCEEDS	488	172	890	
50 PERCENT EXCEEDS	39	17	130	
90 PERCENT EXCEEDS	3.8	3.3	9.3	

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DD #2

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	-0.24	-0.31	-0.26	0.02	0.33	0.24	1.41	0.22	-0.24	-0.30	0.21	-0.32
2	-0.25	-0.31	-0.24	0.03	0.29	0.43	1.58	0.41	-0.24	-0.21	0.40	-0.32
3	-0.26	-0.31	-0.23	0.09	0.26	0.80	1.51	0.36	-0.25	-0.16	0.39	-0.32
4	-0.26	-0.32	-0.23	0.10	0.23	1.11	1.60	0.30	-0.26	-0.15	0.27	-0.32
5	-0.27	-0.32	-0.23	0.13	0.20	1.29	1.50	0.29	-0.25	-0.18	0.16	-0.32
6	-0.26	-0.32	-0.23	0.15	0.21	1.30	1.25	0.24	-0.26	-0.20	0.07	-0.34
7	-0.26	-0.32	-0.22	0.17	0.41	1.31	1.00	0.16	-0.26	-0.21	0.0	-0.35
8	-0.27	-0.32	-0.22	0.19	0.57	1.31	0.83	0.10	-0.26	-0.19	-0.04	-0.36
9	-0.27	-0.32	-0.22	0.19	0.71	1.14	0.70	0.04	-0.26	-0.15	-0.09	-0.37
10	-0.27	-0.32	-0.21	0.17	0.80	0.92	0.71	0.00	-0.27	-0.11	-0.13	-0.37
11	-0.28	-0.32	-0.18	0.17	0.88	0.76	0.91	-0.04	-0.28	-0.14	-0.18	-0.38
12	-0.26	-0.32	-0.12	0.18	0.95	0.69	1.66	-0.07	-0.28	-0.19	-0.22	-0.38
13	-0.25	-0.32	-0.10	0.25	0.93	0.83	2.26	-0.10	-0.29	-0.16	-0.25	-0.39
14	-0.25	-0.32	-0.08	0.28	0.78	1.03	2.19	-0.10	-0.29	0.04	-0.27	-0.36
15	-0.25	-0.32	-0.08	0.35	0.64	1.27	2.23	-0.10	-0.30	0.13	-0.28	0.01
16	-0.26	-0.33	-0.04	0.36	0.54	1.43	2.14	-0.08	-0.31	0.08	-0.27	0.29
17	-0.27	-0.33	0.01	0.39	0.46	1.50	1.89	-0.09	-0.31	0.00	-0.28	0.56
18	-0.27	-0.33	0.07	0.41	0.40	1.46	1.56	-0.09	-0.31	-0.08	-0.30	0.71
19	-0.28	-0.32	0.13	0.41	0.35	1.30	1.27	-0.08	-0.31	-0.14	-0.31	0.61
20	-0.28	-0.32	0.15	0.42	0.33	1.12	1.02	-0.10	-0.31	-0.19	-0.31	0.81
21	-0.29	-0.32	0.14	0.40	0.37	1.25	0.83	-0.11	-0.31	-0.22	-0.32	1.02
22	-0.30	-0.32	0.12	0.37	0.37	1.34	0.67	-0.12	-0.31	-0.20	-0.32	0.92
23	-0.30	-0.30	0.11	0.35	0.36	1.32	0.56	-0.13	-0.31	-0.17	-0.33	0.75
24	-0.30	-0.30	0.12	0.34	0.35	1.29	0.46	-0.14	-0.31	-0.13	-0.33	0.59
25	-0.30	-0.30	0.11	0.38	0.35	1.26	0.38	-0.15	-0.30	-0.05	-0.34	0.57
26	-0.31	-0.30	0.10	0.41	0.33	1.24	0.31	-0.17	-0.29	0.00	-0.34	0.49
27	-0.32	-0.30	0.07	0.42	0.30	1.31	0.25	-0.18	-0.30	-0.03	-0.34	0.47
28	-0.31	-0.30	0.05	0.39	0.27	1.22	0.21	-0.20	-0.30	-0.06	-0.34	0.45
29	-0.31	-0.30	0.04	0.36	---	1.07	0.16	-0.21	-0.31	-0.08	-0.34	0.53
30	-0.31	-0.28	0.03	0.36	---	0.98	0.13	-0.22	-0.31	0.0	-0.32	0.54
31	-0.31	---	0.02	0.35	---	0.95	---	-0.23	---	0.03	-0.32	---
MEAN	-0.28	-0.31	-0.05	0.28	0.46	1.11	1.11	-0.02	-0.29	-0.11	-0.16	0.15
MAX	-0.24	-0.28	0.15	0.42	0.95	1.50	2.26	0.41	-0.24	0.13	0.40	1.02
MIN	-0.32	-0.33	-0.26	0.02	0.20	0.24	0.13	-0.23	-0.31	-0.30	-0.34	-0.39