



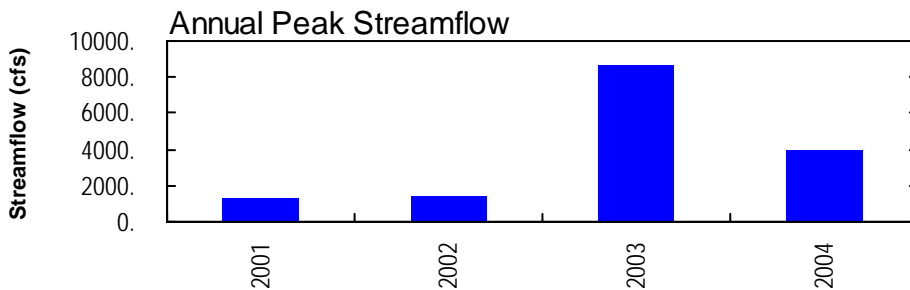
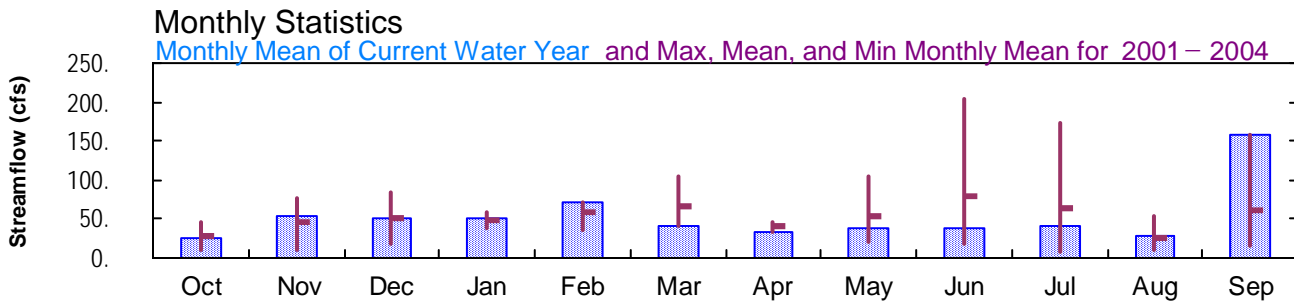
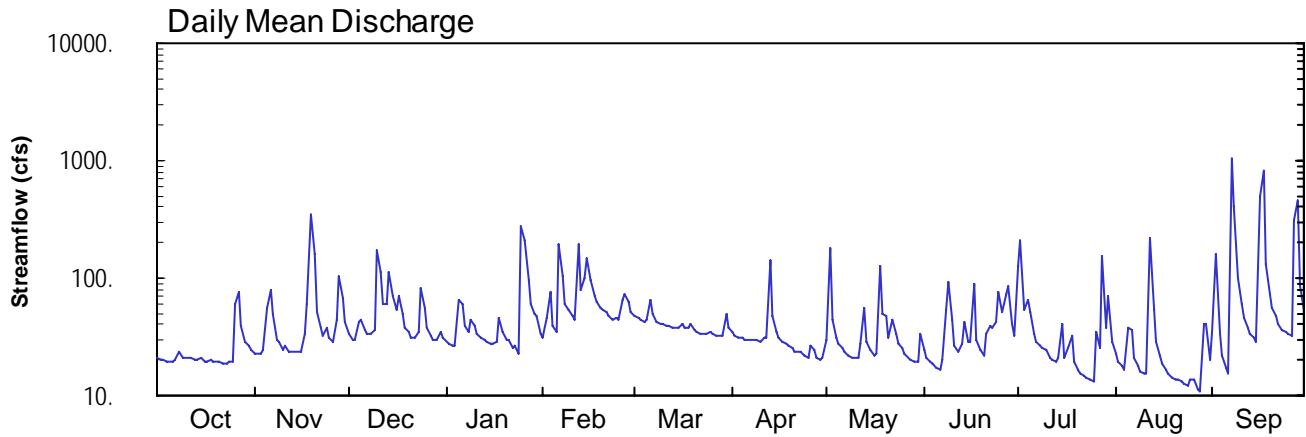
2004 Water Year ALTAMAHA RIVER BASIN

02208150 ALCOVY RIVER AT NEW HOPE ROAD, NEAR GRAYSON, GA

Latitude: 33° 55 ' 03"
Gwinnett County

Longitude: 083° 53 ' 17"
Datum: 850.00 feet

Hydrologic Unit Code: 03070103
Drainage Area: 30.8 mi²



**ALTAMAHA RIVER BASIN
2004 Water Year**

02208150 ALCOVY RIVER AT NEW HOPE ROAD, NEAR GRAYSON, GA

LOCATION.—Lat 33°55'03", long 83°53'17" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070103, 8.0 feet downstream of bridge at New Hope Road, and 4.2 miles northeast of Grayson.

DRAINAGE AREA.—30.8 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 7, 2001 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 850.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

REMARKS.—Records good, except for periods of estimated discharge, which are fair.

WATER-STAGE RECORDS

PERIOD OF RECORD.—March 7, 2001 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 850.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height, 12.14 feet, September 17; minimum gage-height, 2.73 feet, August 28, 29.

PRECIPITATION RECORDS

PERIOD OF RECORD.—March 7, 2001 to current year.

GAGE.—Tipping-bucket raingage.

REMARKS.—Records good.

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

STATION NUMBER 02208150 ALCOVY RIVER AT NEW HOPE ROAD, NEAR GRAYSON, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135
 LATITUDE 335503 LONGITUDE 0835317 NAD27 DRAINAGE AREA 30.8 CONTRIBUTING DRAINAGE AREA 30.8* DATUM 850.00 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	21	e23	e34	e28	31	48	35	30	24	125	22	35
2	21	e23	e30	e27	46	45	32	182	21	209	20	158
3	20	e22	e29	e26	76	45	31	44	19	54	18	33
4	20	e25	e43	e26	39	43	31	31	18	65	17	22
5	19	e56	e43	e65	35	43	30	27	17	52	38	17
6	19	e79	e36	e60	196	65	29	26	16	33	37	16
7	20	e49	e33	e40	105	49	29	24	20	29	21	1050
8	24	e30	e33	e34	61	42	30	22	53	26	18	407
9	21	e29	e36	e44	53	41	29	21	92	25	16	99
10	21	e25	e174	e40	47	41	28	21	45	24	16	60
11	21	e26	e114	e34	44	39	31	21	27	21	16	46
12	21	e23	e59	e31	194	39	31	27	23	21	221	38
13	20	e23	e60	e30	80	38	144	56	27	19	53	34
14	20	e23	e111	e29	98	37	48	28	42	21	28	31
15	21	e23	e70	e28	150	37	35	24	28	41	22	29
16	20	e23	e54	e28	95	41	31	22	29	21	19	500
17	20	e33	e71	e28	e70	38	29	23	90	26	17	809
18	20	e59	e49	e47	e62	37	27	125	30	32	16	129
19	20	e345	e38	e35	56	41	27	50	25	19	14	73
20	19	e160	e34	e29	54	36	25	48	22	17	14	55
21	19	e51	e32	e29	51	35	24	31	34	15	14	48
22	19	e37	e31	e25	47	34	23	45	39	15	13	41
23	19	e32	e34	e26	45	33	24	34	38	14	13	37
24	19	e38	e83	e23	46	33	22	27	42	13	12	35
25	19	e31	e57	e271	44	34	21	26	76	13	14	34
26	61	e28	e38	e209	65	33	26	23	52	35	14	33
27	e76	e45	e32	e96	73	32	25	21	74	25	11	313
28	e39	e103	e30	e59	62	32	21	20	87	152	11	450
29	e28	e67	e30	e50	51	32	20	19	42	38	41	86
30	e27	e43	e35	e48	---	49	21	19	33	70	41	54
31	e24	---	e31	33	---	38	---	34	---	28	20	---
TOTAL	758	1574	1584	1578	2076	1230	959	1151	1185	1298	847	4772
MEAN	24.5	52.5	51.1	50.9	71.6	39.7	32.0	37.1	39.5	41.9	27.3	159
MAX	76	345	174	271	196	65	144	182	92	209	221	1050
MIN	19	22	29	23	31	32	20	19	16	13	11	16
CFSM	0.79	1.70	1.66	1.65	2.32	1.29	1.04	1.21	1.28	1.36	0.89	5.16
IN.	0.92	1.90	1.91	1.91	2.51	1.49	1.16	1.39	1.43	1.57	1.02	5.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	2001	2002	2003	2004	2001	2002	2003	2004	2001	2002	2003	2004
MEAN	27.2	46.8	50.4	49.5	59.4	66.7	40.8	53.0	79.3	64.2	25.9	61.5
MAX	46.9	76.9	83.3	59.4	71.6	104	46.5	104	205	173	53.8	159
(WY)	2003	2003	2003	2002	2004	2003	2003	2003	2003	2003	2003	2004
MIN	10.2	11.1	16.7	38.4	36.5	39.7	32.0	21.6	18.6	8.75	9.27	14.9
(WY)	2002	2002	2002	2003	2002	2004	2004	2001	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	28958	19012		
ANNUAL MEAN	79.3	51.9	55.9	
HIGHEST ANNUAL MEAN			86.0	2003
LOWEST ANNUAL MEAN			29.8	2002
HIGHEST DAILY MEAN	2240	Jun 17	1050	Sep 7
LOWEST DAILY MEAN	19	Oct 5	11	Aug 27 a
ANNUAL SEVEN-DAY MINIMUM	19	Oct 19	13	Aug 22
MAXIMUM PEAK FLOW			3920	Sep 17
MAXIMUM PEAK STAGE			12.14	Sep 17
ANNUAL RUNOFF (CFSM)	2.58		1.69	1.82
ANNUAL RUNOFF (INCHES)	34.98		22.96	24.67
10 PERCENT EXCEEDS	124		81	92
50 PERCENT EXCEEDS	42		32	32
90 PERCENT EXCEEDS	23		19	9.6

e Estimated
 a Also Aug 28

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

STATION NUMBER 02208150 ALCOVY RIVER AT NEW HOPE ROAD, NEAR GRAYSON, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135
 LATITUDE 335503 LONGITUDE 0835317 NAD27 DRAINAGE AREA 30.8 CONTRIBUTING DRAINAGE AREA 30.8* DATUM 850.00 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	3.23	---	---	---	3.48	3.66	3.42	3.38	3.15	4.11	3.11	3.35
2	3.22	---	---	---	3.65	3.62	3.35	4.97	3.06	5.12	3.03	4.70
3	3.20	---	---	---	4.17	3.61	3.33	3.67	3.02	3.77	2.99	3.37
4	3.19	---	---	---	3.65	3.58	3.31	3.41	2.99	3.81	2.94	3.09
5	3.18	---	---	---	3.56	3.59	3.30	3.32	2.96	3.72	3.29	2.96
6	3.18	---	---	---	4.88	3.91	3.28	3.28	2.94	3.38	3.43	2.91
7	3.20	---	---	---	4.44	3.68	3.28	3.23	3.04	3.28	3.07	7.66
8	3.30	---	---	---	3.88	3.57	3.30	3.18	3.73	3.21	2.99	6.34
9	3.24	---	---	---	3.74	3.55	3.28	3.15	4.21	3.18	2.93	4.38
10	3.22	---	---	---	3.65	3.54	3.26	3.15	3.58	3.16	2.91	3.86
11	3.22	---	---	---	3.59	3.51	3.33	3.16	3.22	3.08	2.91	3.63
12	3.23	---	---	---	5.04	3.50	3.34	3.30	3.13	3.06	4.85	3.48
13	3.21	---	---	---	4.14	3.47	4.80	3.83	3.23	3.01	3.73	3.39
14	3.20	---	---	---	4.36	3.47	3.73	3.35	3.54	3.04	3.25	3.32
15	3.24	---	---	---	4.81	3.47	3.50	3.25	3.26	3.49	3.09	3.27
16	3.19	---	---	---	4.34	3.54	3.42	3.19	3.26	3.07	3.00	5.10
17	3.19	---	---	---	---	3.49	3.36	3.21	4.12	3.14	2.95	7.25
18	3.21	---	---	---	---	3.46	3.33	4.26	3.29	3.32	2.91	4.71
19	3.19	---	---	---	3.79	3.53	3.31	3.68	3.17	3.02	2.86	4.05
20	3.17	---	---	---	3.76	3.44	3.27	3.65	3.10	2.94	2.85	3.79
21	3.17	---	---	---	3.73	3.43	3.24	3.31	3.32	2.90	2.85	3.66
22	3.17	---	---	---	3.65	3.39	3.22	3.56	3.48	2.89	2.83	3.53
23	3.17	---	---	---	3.61	3.38	3.23	3.39	3.46	2.86	2.81	3.46
24	3.17	---	---	---	3.63	3.37	3.19	3.24	3.53	2.84	2.80	3.41
25	3.18	---	---	---	3.60	3.40	3.16	3.19	3.87	2.83	2.85	3.39
26	3.78	---	---	---	3.92	3.38	3.29	3.12	3.71	3.40	2.84	3.36
27	---	---	---	---	4.06	3.36	3.26	3.07	3.80	3.14	2.77	4.83
28	---	---	---	---	3.89	3.35	3.16	3.03	4.20	4.65	2.75	6.34
29	---	---	---	---	3.72	3.34	3.14	3.02	3.55	3.45	3.22	4.22
30	---	---	---	---	---	3.67	3.16	3.02	3.36	3.91	3.49	3.76
31	---	---	---	3.54	---	3.48	---	3.35	---	3.25	3.04	---
MEAN	---	---	---	---	---	3.51	3.35	3.38	3.41	3.36	3.08	4.15
MAX	---	---	---	---	---	3.91	4.80	4.97	4.21	5.12	4.85	7.66
MIN	---	---	---	---	---	3.34	3.14	3.02	2.94	2.83	2.75	2.91

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Precipitation, total, inches
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 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	0.36	0.00	1.82	0.00	0.47
2	0.00	---	---	---	0.57	0.00	0.00	1.05	0.00	0.16	0.00	1.99
3	0.00	---	---	---	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.00
4	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
5	0.00	---	---	---	0.04	0.00	0.00	0.00	0.00	0.00	0.63	0.00
6	0.00	---	---	---	---	0.27	0.00	0.00	0.00	0.01	0.00	0.21
7	0.02	---	---	---	---	0.00	0.00	0.00	0.27	0.00	0.00	4.97
8	0.20	---	---	---	---	0.00	0.18	0.00	0.40	0.00	0.00	0.06
9	0.00	---	---	---	---	0.03	0.00	0.00	0.77	0.00	0.00	0.00
10	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.03	---	---	---	---	0.00	0.09	0.32	0.00	0.00	0.00	0.00
12	0.00	---	---	---	---	0.00	0.47	0.41	0.01	0.00	1.80	0.00
13	0.00	---	---	---	0.00	0.00	0.51	0.06	1.22	0.00	0.00	0.00
14	0.07	---	---	---	0.55	0.00	0.01	0.00	0.77	0.37	0.00	0.00
15	0.00	---	---	---	0.53	0.00	0.00	0.00	0.18	0.00	0.00	0.00
16	0.00	---	---	---	0.00	0.07	0.00	0.00	0.77	0.00	0.00	3.07
17	0.14	---	---	---	0.00	0.00	0.00	0.00	0.02	0.28	0.00	0.21
18	0.01	---	---	---	0.00	0.00	0.00	0.87	0.03	0.00	0.00	0.00
19	0.00	---	---	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
20	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00
21	0.00	---	---	---	0.01	0.02	0.00	0.00	0.04	0.00	0.00	0.00
22	0.00	---	---	---	0.00	0.00	0.00	0.40	0.25	0.00	0.00	0.00
23	0.00	---	---	---	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00
24	0.00	---	---	---	0.10	0.00	0.00	0.00	0.02	0.00	0.02	0.00
25	0.00	---	---	---	0.16	0.00	0.00	0.00	0.41	1.25	0.00	0.00
26	2.17	---	---	---	0.07	0.00	0.25	0.00	0.02	0.29	0.00	0.00
27	---	---	---	---	0.73	0.00	0.00	0.00	1.29	0.10	0.00	3.18
28	---	---	---	---	0.00	0.00	0.00	0.01	0.17	0.00	0.00	0.03
29	---	---	---	---	0.00	0.00	0.00	0.03	0.01	0.32	1.05	0.00
30	---	---	---	---	---	0.41	0.05	0.00	0.22	0.00	0.25	0.00
31	---	---	---	0.00	---	0.11	---	0.33	---	0.00	0.01	---
TOTAL	---	---	---	---	---	0.91	1.56	3.85	7.39	4.65	4.08	14.19