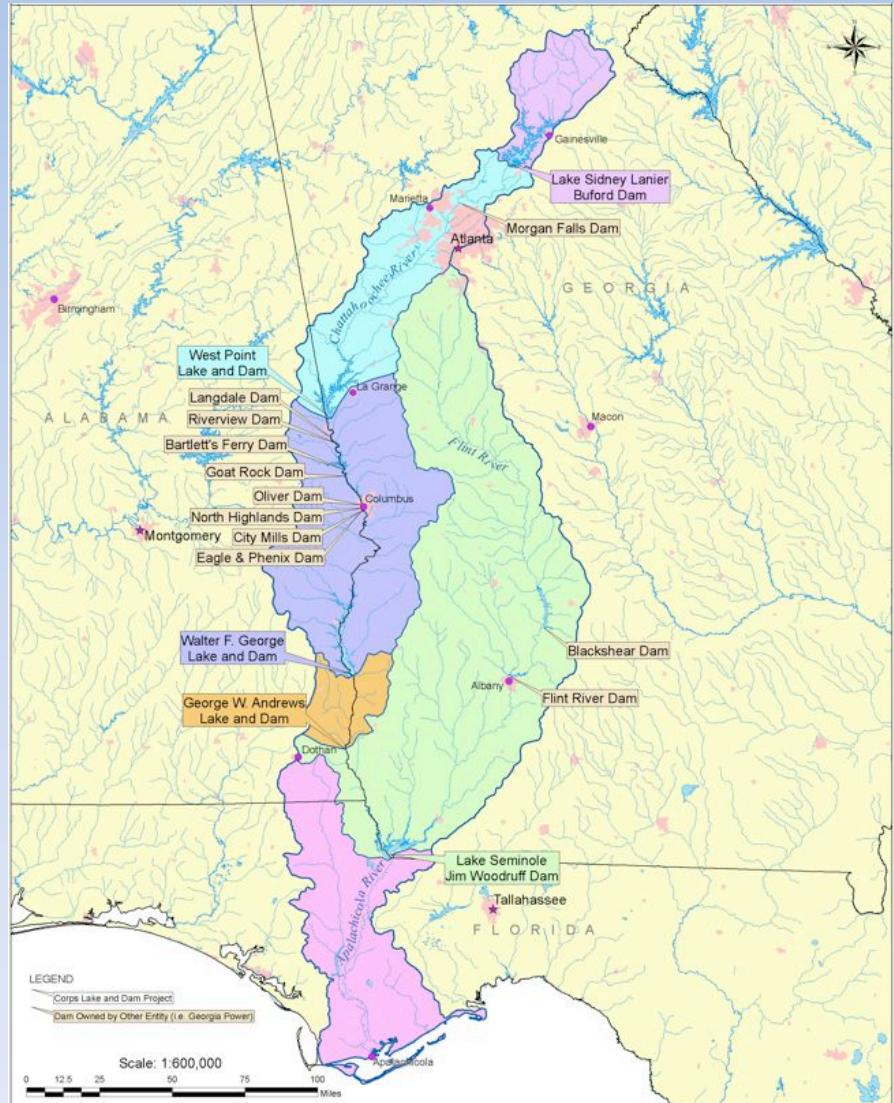
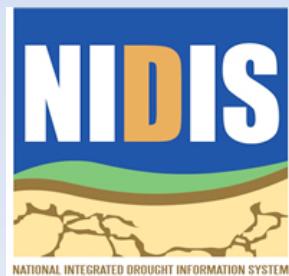


National Integrated Drought Information System

Southeast US Pilot for Apalachicola- Flint-Chattahoochee River Basin

10 April 2012



Current drought status from Drought Monitor

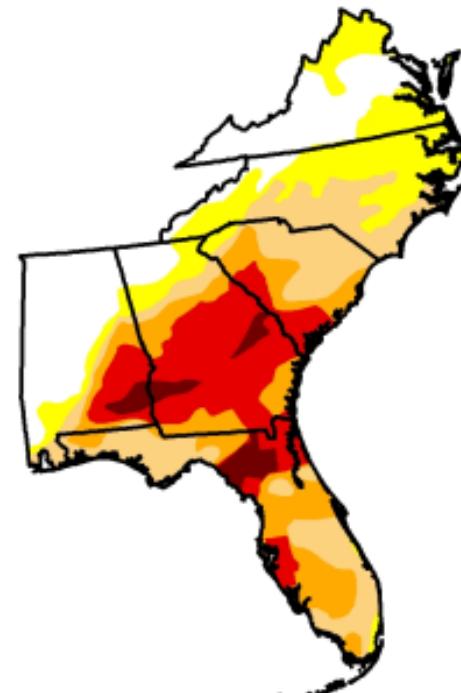
U.S. Drought Monitor Southeast

April 3, 2012
Valid 7 a.m. EST

Drought Conditions (Percent Area)						
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.46	77.54	58.79	36.74	20.92	3.32
Last Week (03/27/2012 map)	22.86	77.14	58.78	35.92	19.90	1.86
3 Months Ago (01/03/2012 map)	33.81	66.19	45.62	28.62	18.71	0.00
Start of Calendar Year (12/27/2011 map)	40.38	59.62	43.05	28.62	18.71	0.00
Start of Water Year (09/27/2011 map)	42.24	57.76	41.82	31.77	23.48	0.00
One Year Ago (03/29/2011 map)	22.51	77.49	53.24	22.40	6.25	0.00

Intensity:

- | | |
|--|--------------------------|
| ■ | D0 Abnormally Dry |
| ■ | D1 Drought - Moderate |
| ■ | D2 Drought - Severe |
| ■ | D3 Drought - Extreme |
| ■ | D4 Drought - Exceptional |



The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.

<http://droughtmonitor.unl.edu>



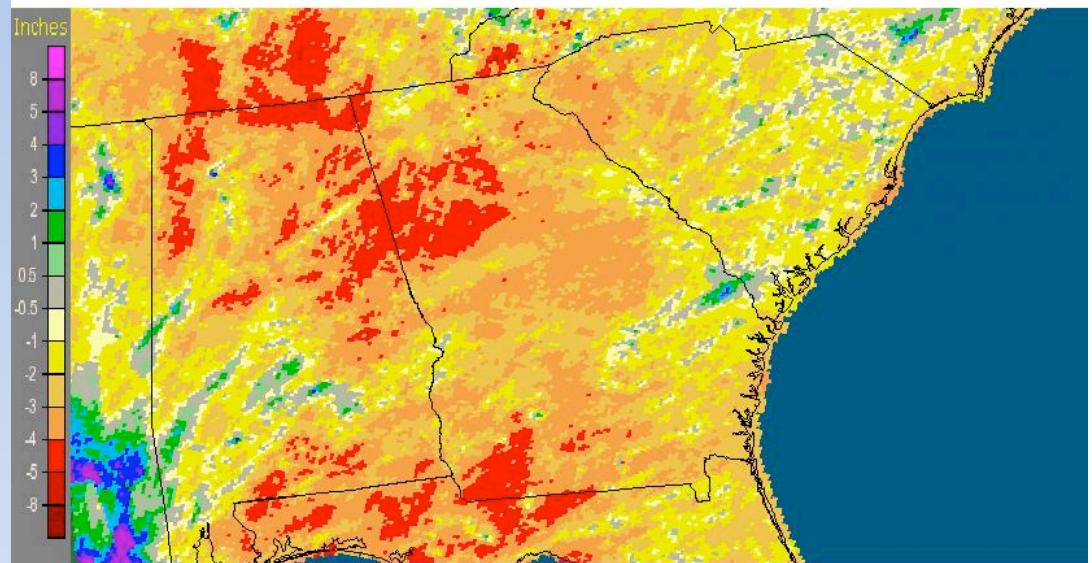
Released Thursday, April 5, 2012
Brian Fuchs, National Drought Mitigation Center

<http://www.drought.unl.edu/dm/monitor.html>

Cumulative Rainfall Deficits

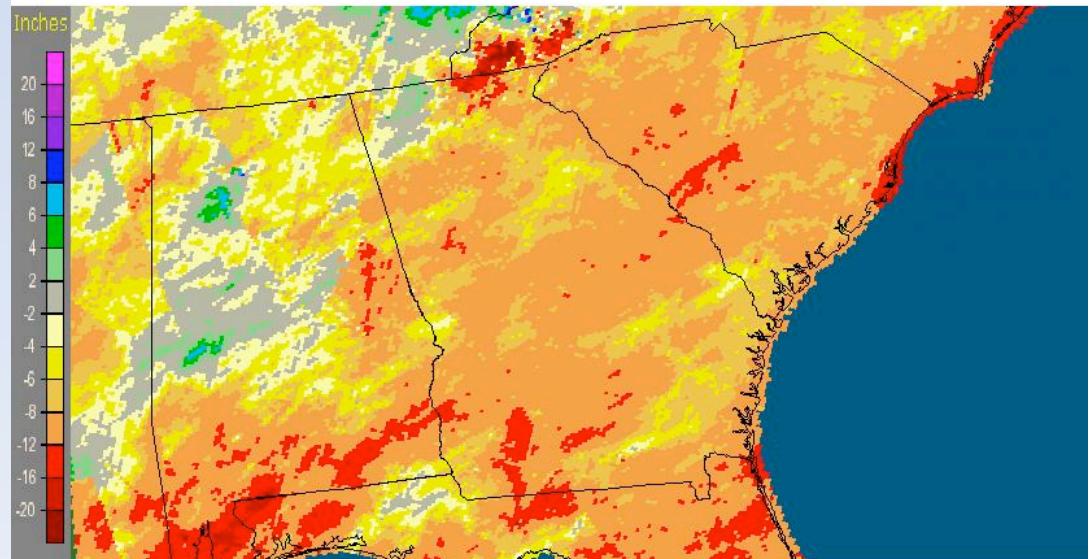
Past 30 days

Georgia: Current 30-Day Departure from Normal Precipitation
Valid at 4/9/2012 1200 UTC - Created 4/9/12 16:07 UTC



Past 180 days

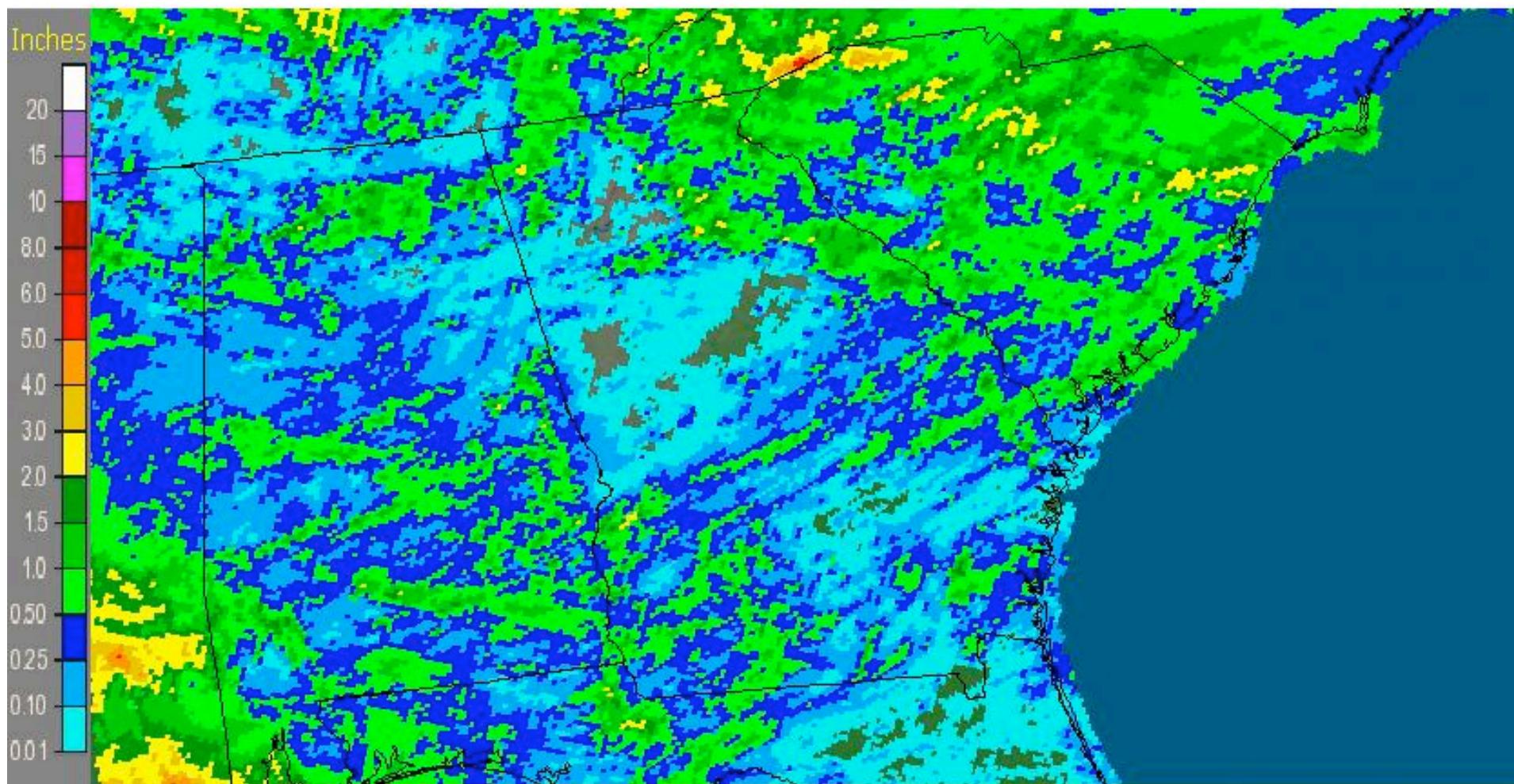
Georgia: Current 180-Day Departure from Normal Precipitation
Valid at 4/9/2012 1200 UTC - Created 4/9/12 16:21 UTC



<http://water.weather.gov/precip/>

7-day Rainfall Totals

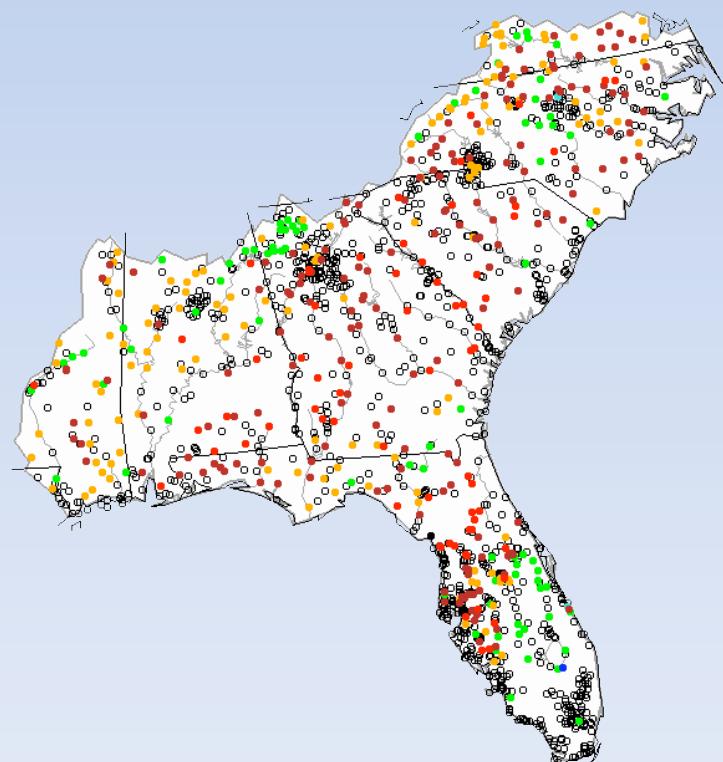
Georgia: Current 7-Day Observed Precipitation
Valid at 4/9/2012 1200 UTC - Created 4/9/12 17:55 UTC



Realtime stream flow compared with historical monthly averages

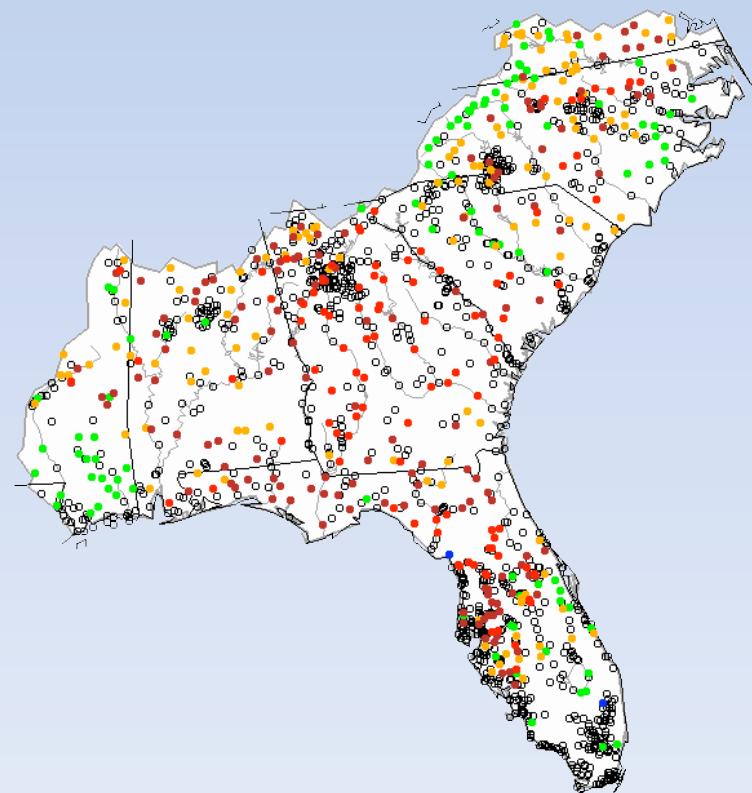
Previous Month:

Tuesday, March 20, 2012 07:30ET



Current:

Monday, April 09, 2012 08:30ET



<http://waterwatch.usgs.gov>

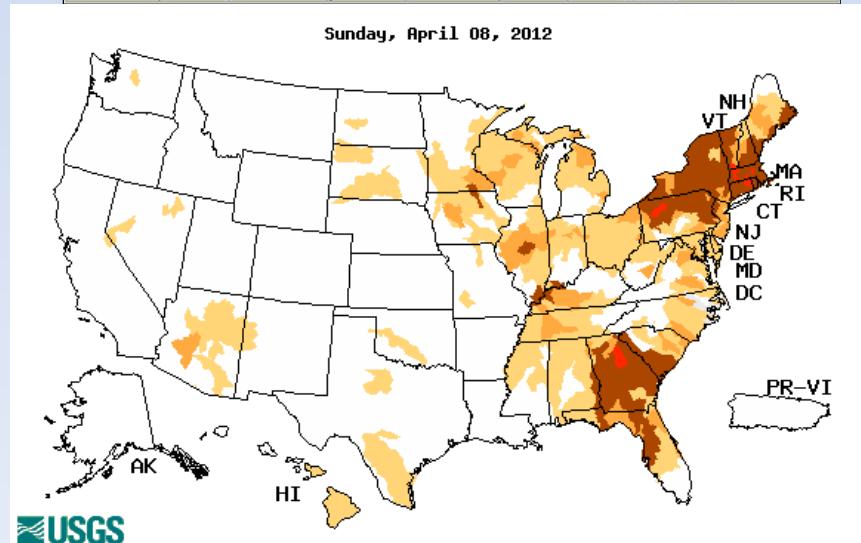
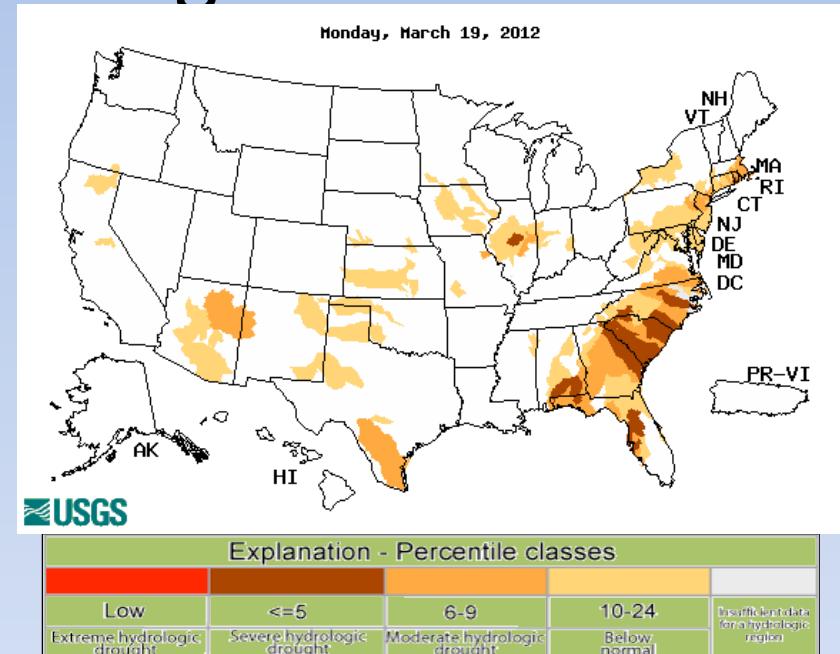
Below Normal 7-day Average Streamflows

Previous month:

Below normal 7-day average streamflow as compared with historical streamflow for day shown

Current:

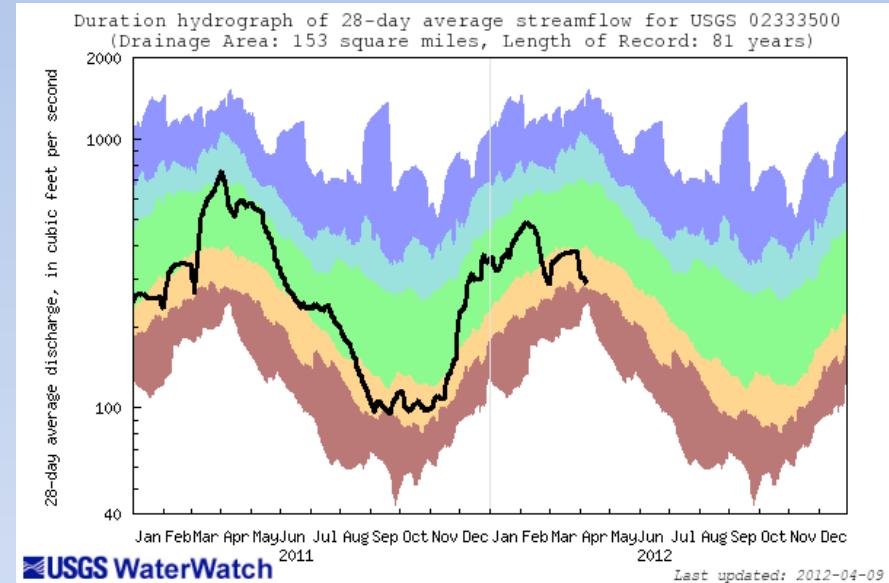
<http://waterwatch.usgs.gov>



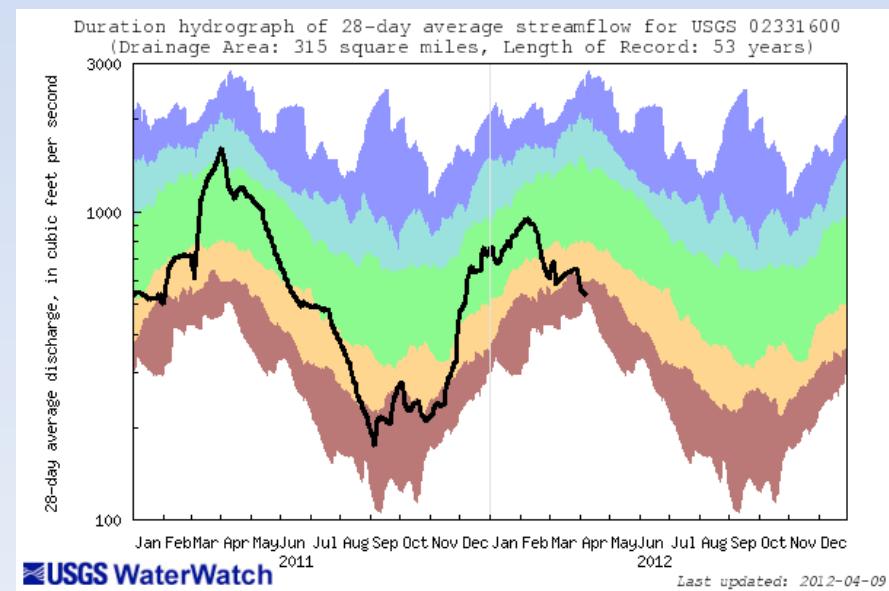
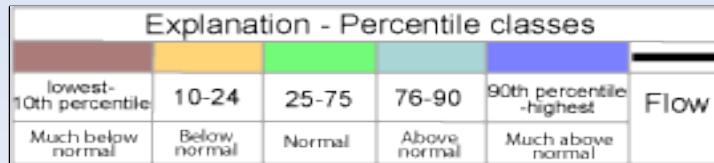
Lake Lanier Inflows

Chestatee near
Dahlonega
(02333500)

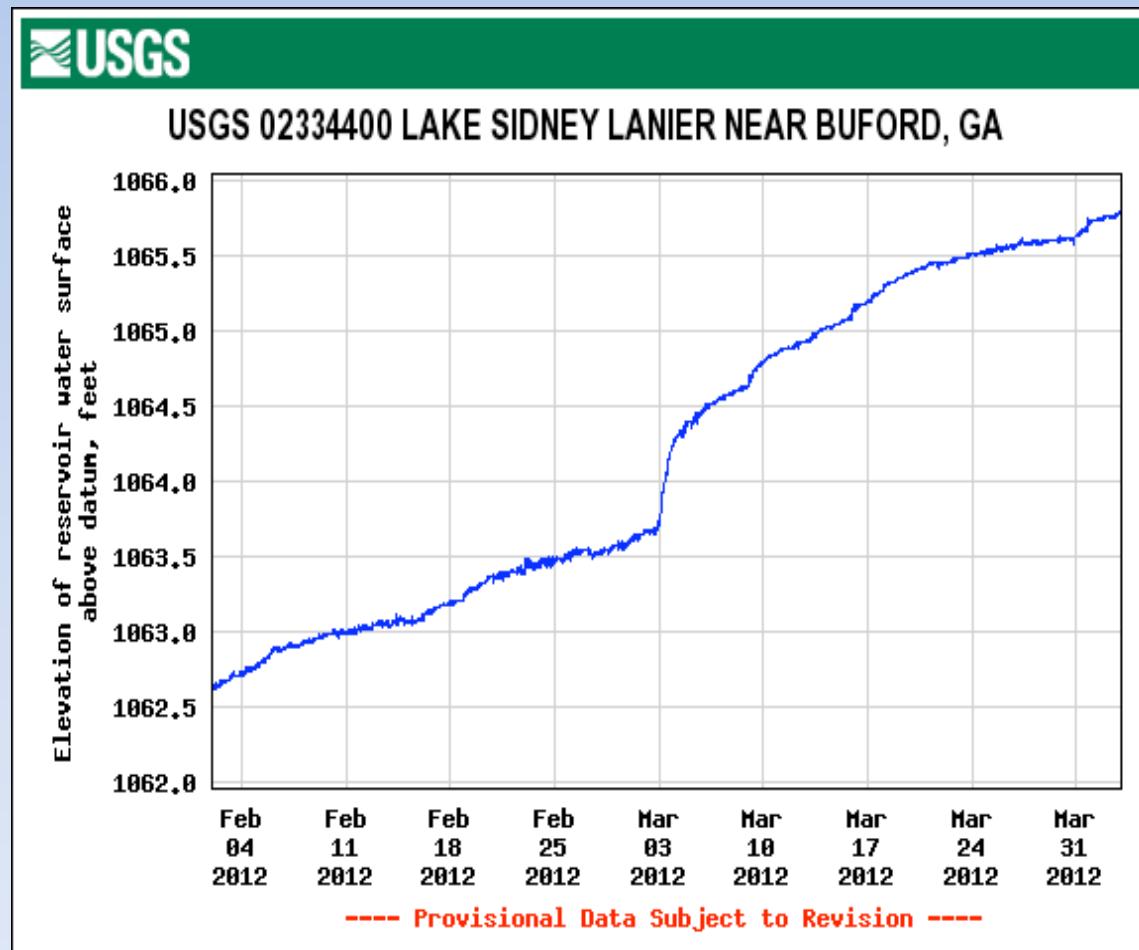
<http://waterwatch.usgs.gov>



Chattahoochee near
Cornelia (02331600)



Lake Lanier Levels (02334400) for Previous 60 Days



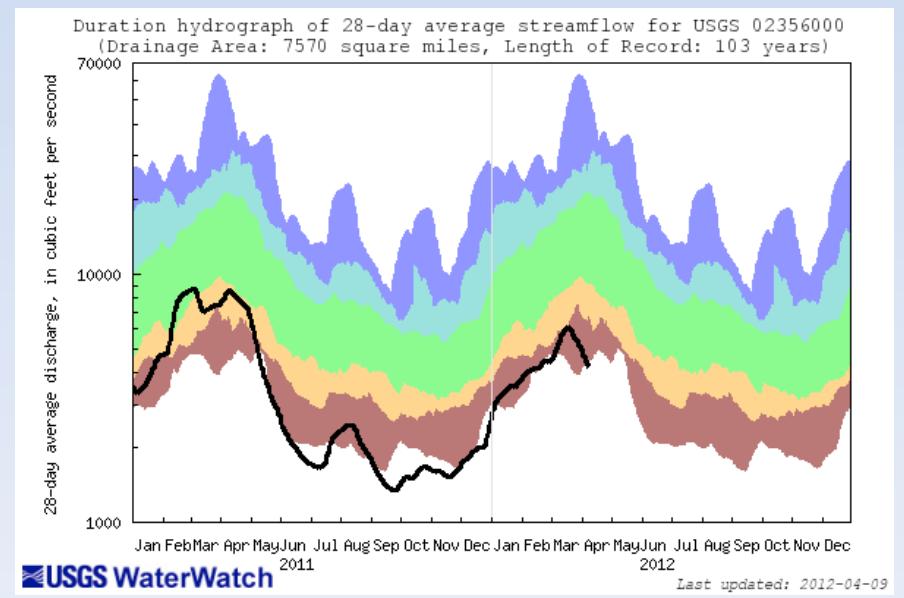
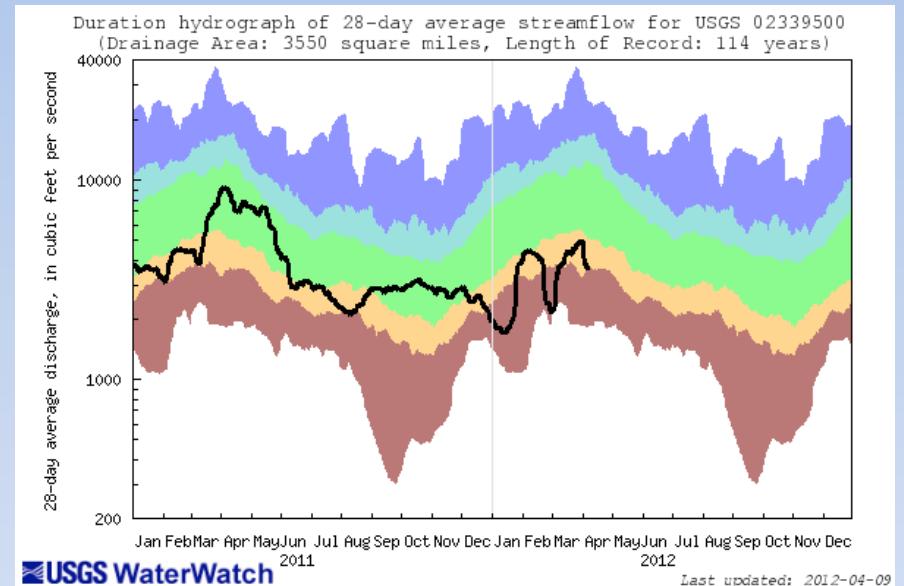
Current Streamflows

Chattahoochee at West Point (02339500)

<http://waterwatch.usgs.gov>

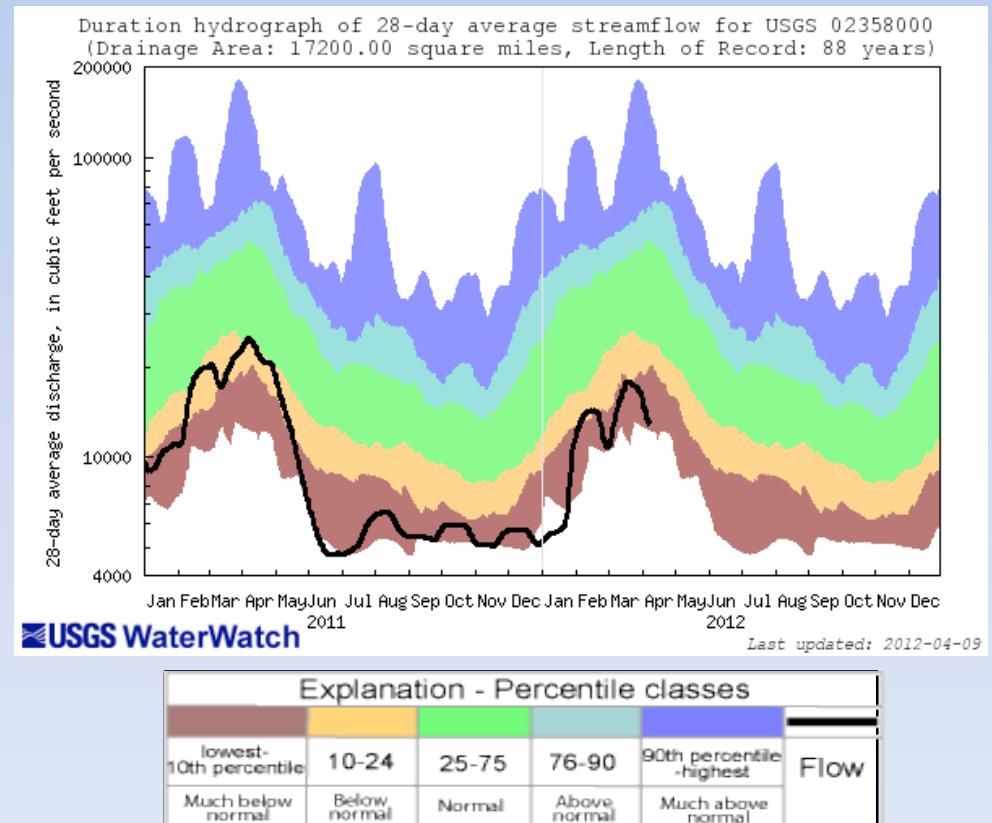
Flint at Bainbridge (02356000)

Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	



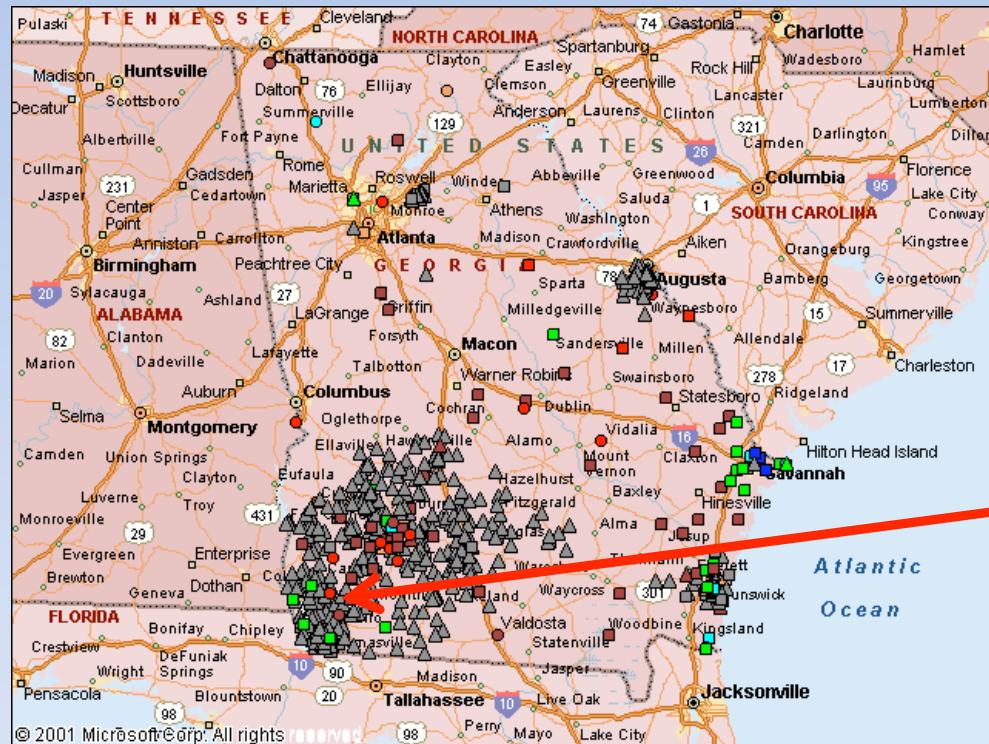
Streamflows

Apalachicola at
Chattahoochee
(02358000)



<http://waterwatch.usgs.gov>

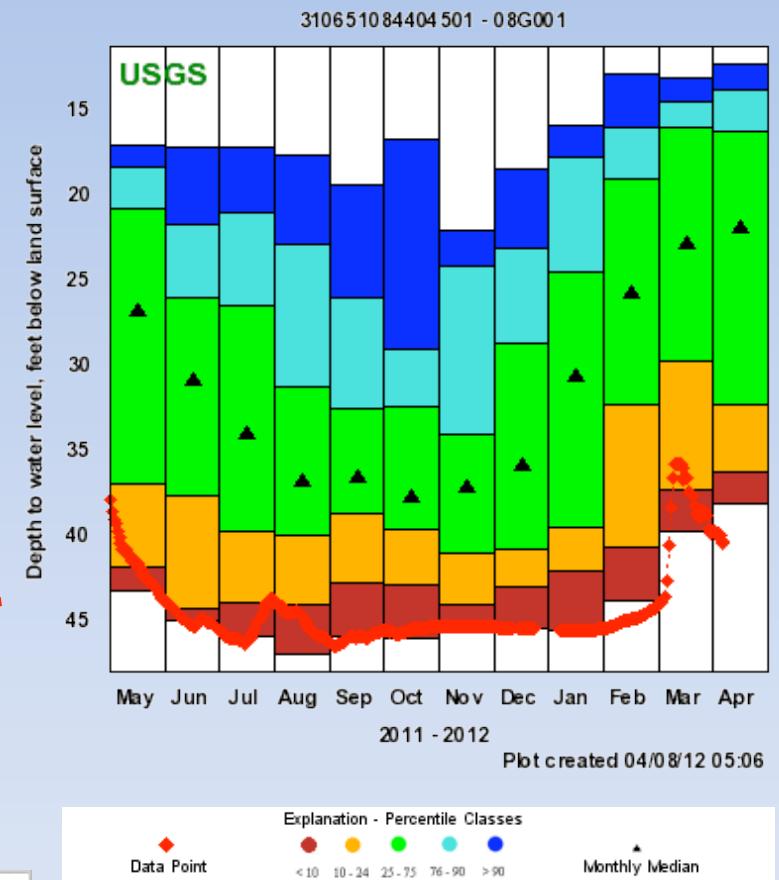
Groundwater Status



Explanation - Percentile classes (symbol color based on most recent measurement)

●	●	●
Low	<10	10-24
	Much Below Normal	Below Normal

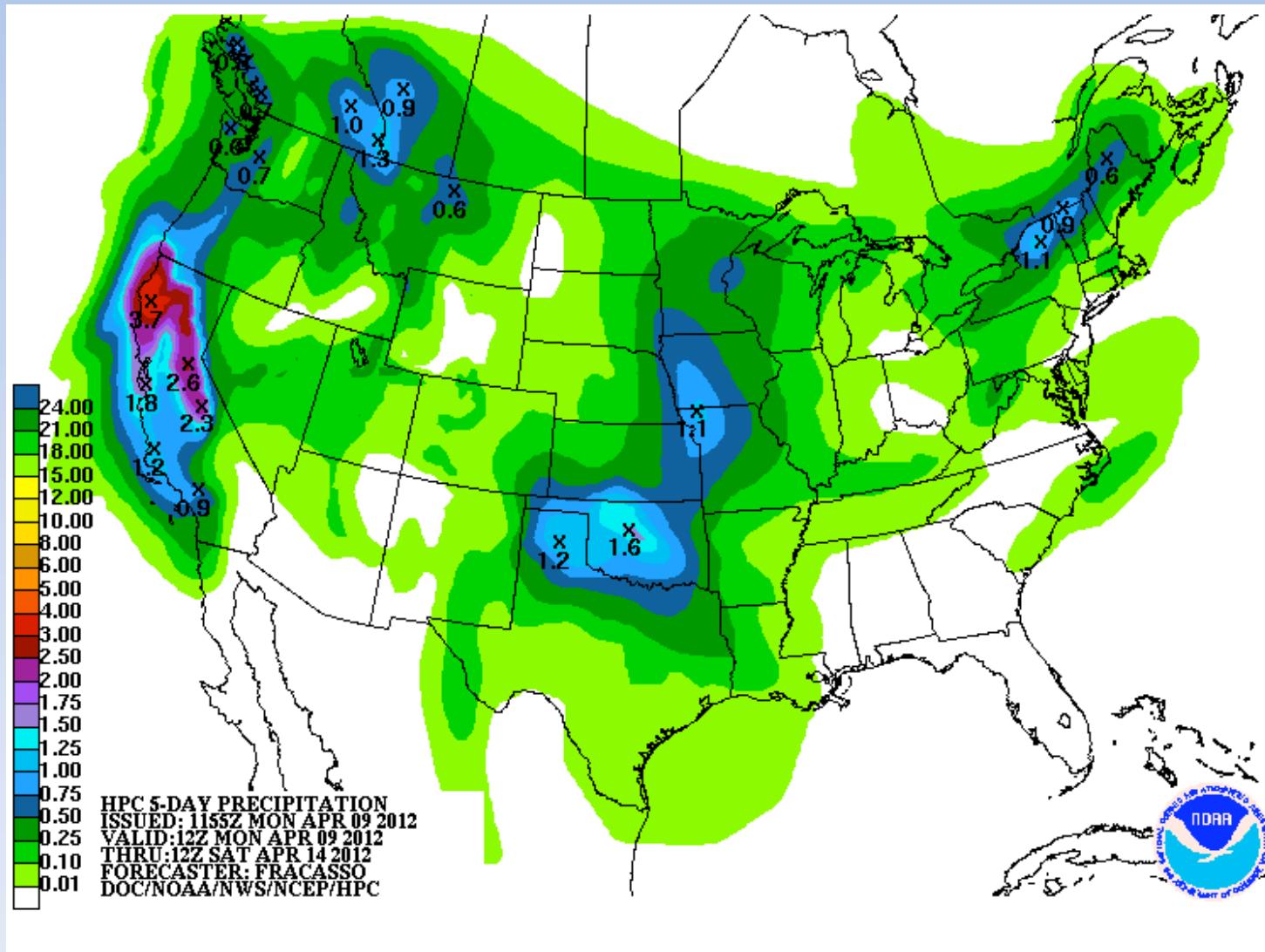
- Real Time
- Continuous
- Periodic
- Measurements



Miller County, GA
(Upper Floridan Aquifer)

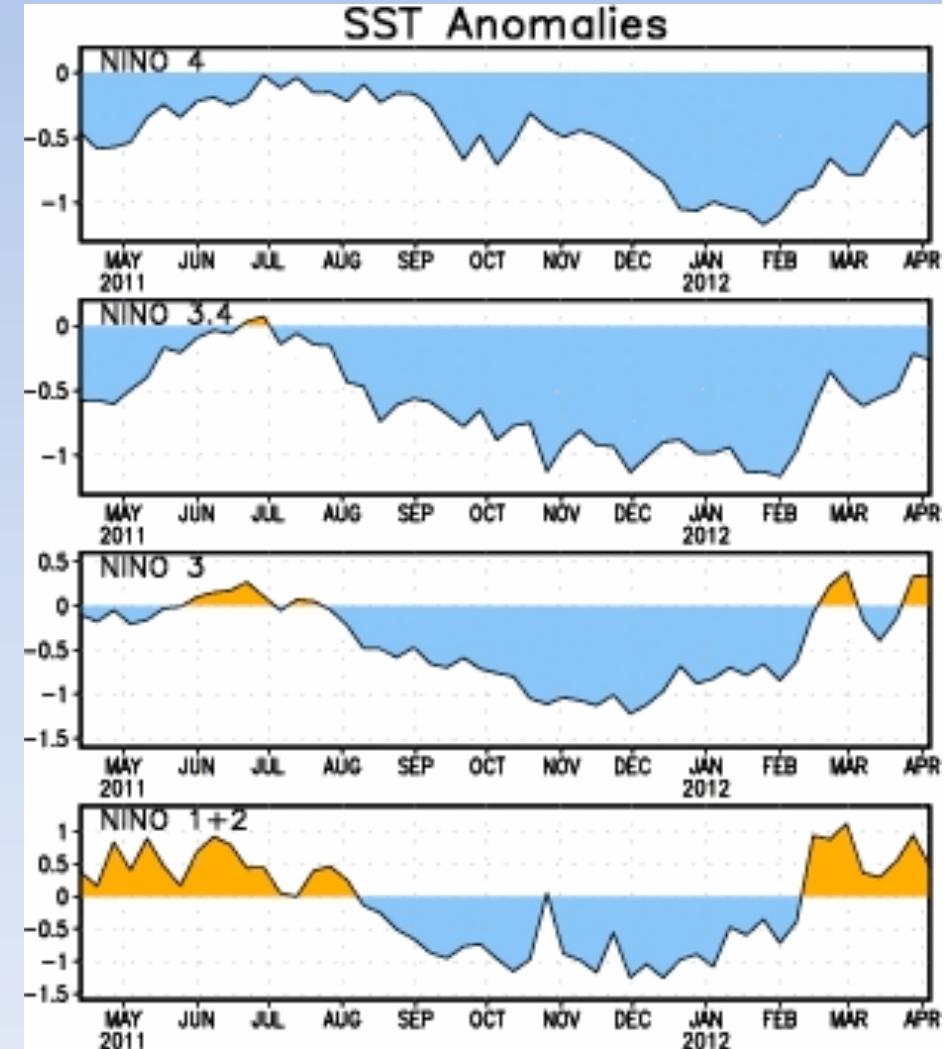
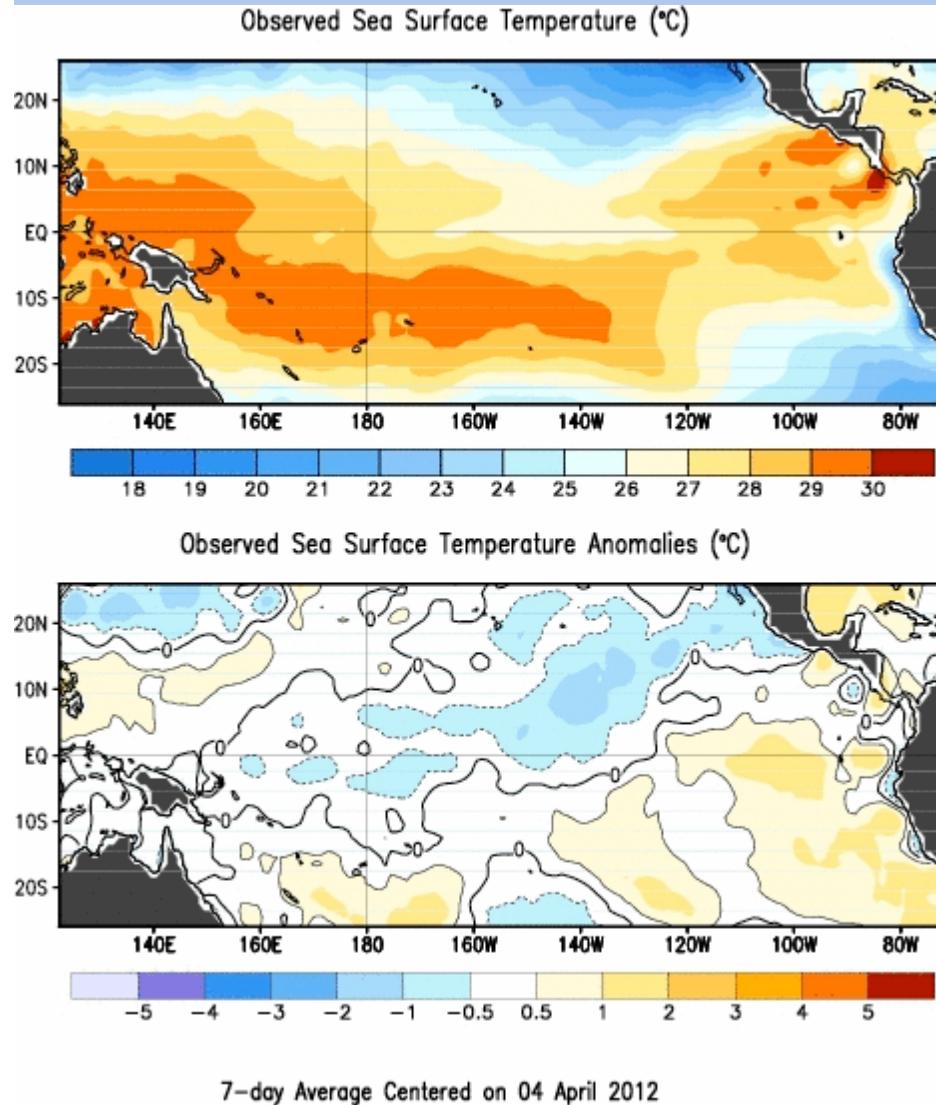
<http://groundwaterwatch.usgs.gov>

5-Day Precipitation Forecast



<http://www.hpc.ncep.noaa.gov/qpf/day1-5.shtml>

7-day average Pacific Ocean SST Anomalies

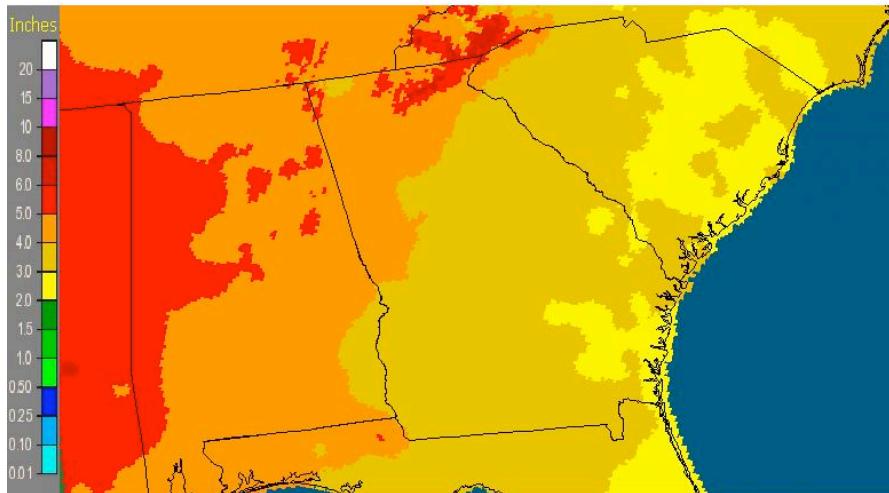


<http://www.cpc.ncep.noaa.gov/products/precip/CWlink/MJO/enso.shtml>

Normal Rainfall

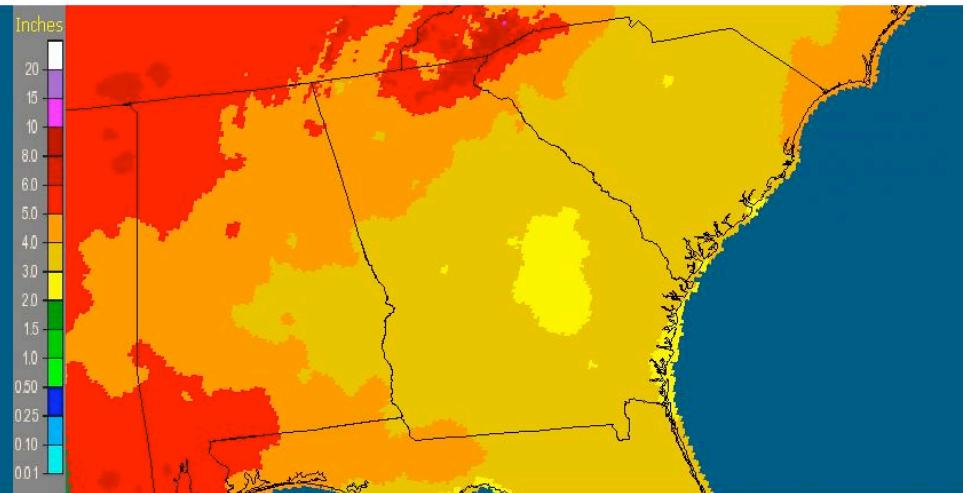
April

Georgia: April, 2011 Monthly Normal Precipitation
Valid at 5/1/2011 1200 UTC- Created 7/6/11 15:24 UTC



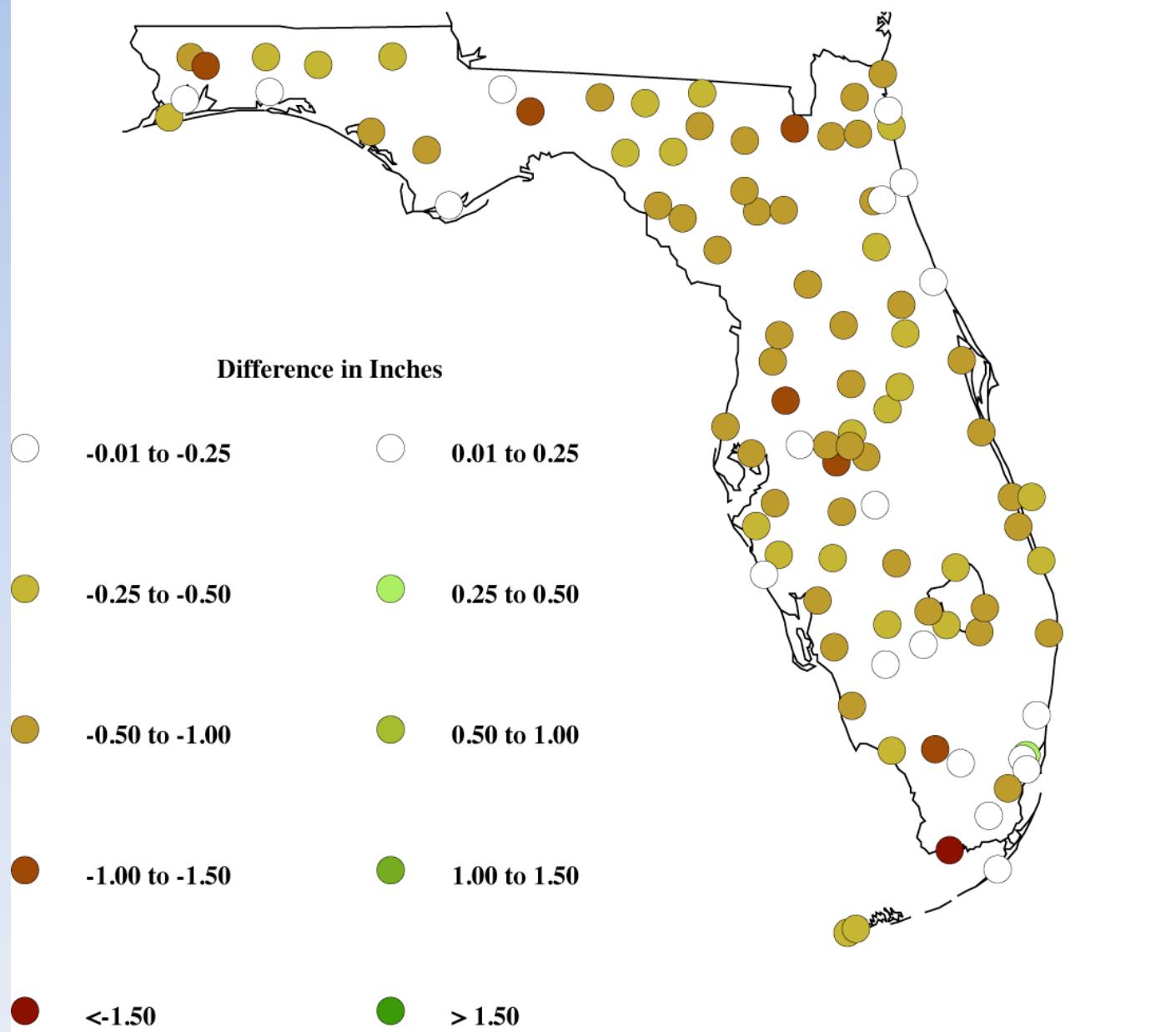
May

Georgia: May, 2011 Monthly Normal Precipitation
Valid at 6/1/2011 1200 UTC- Created 6/3/11 21:39 UTC



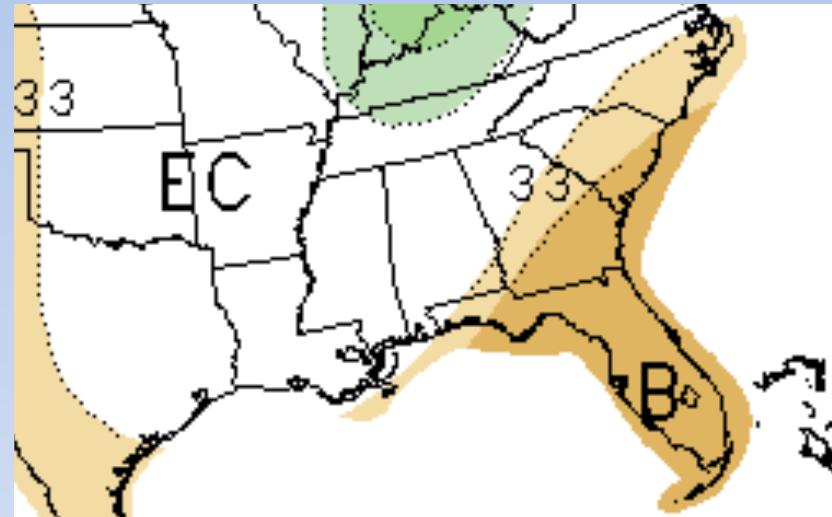
Differences in the Precipitation Normals (1981 vs. 1971)

MAY

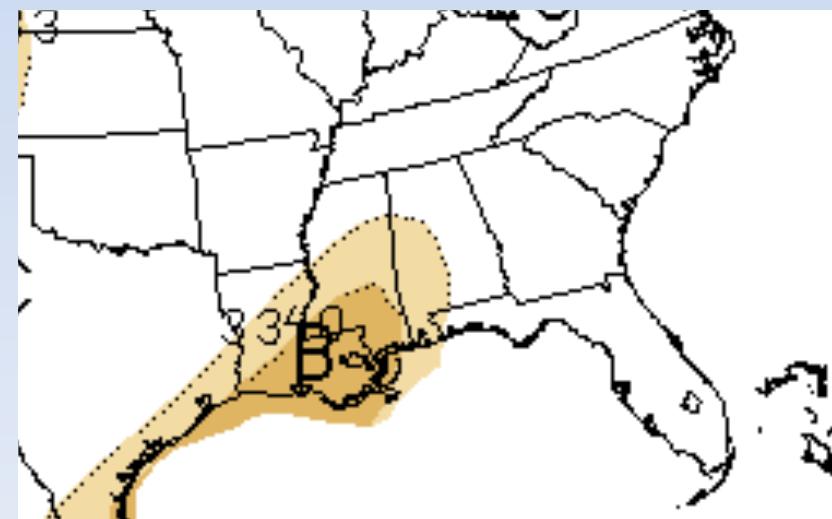


Precipitation Outlook

1-month

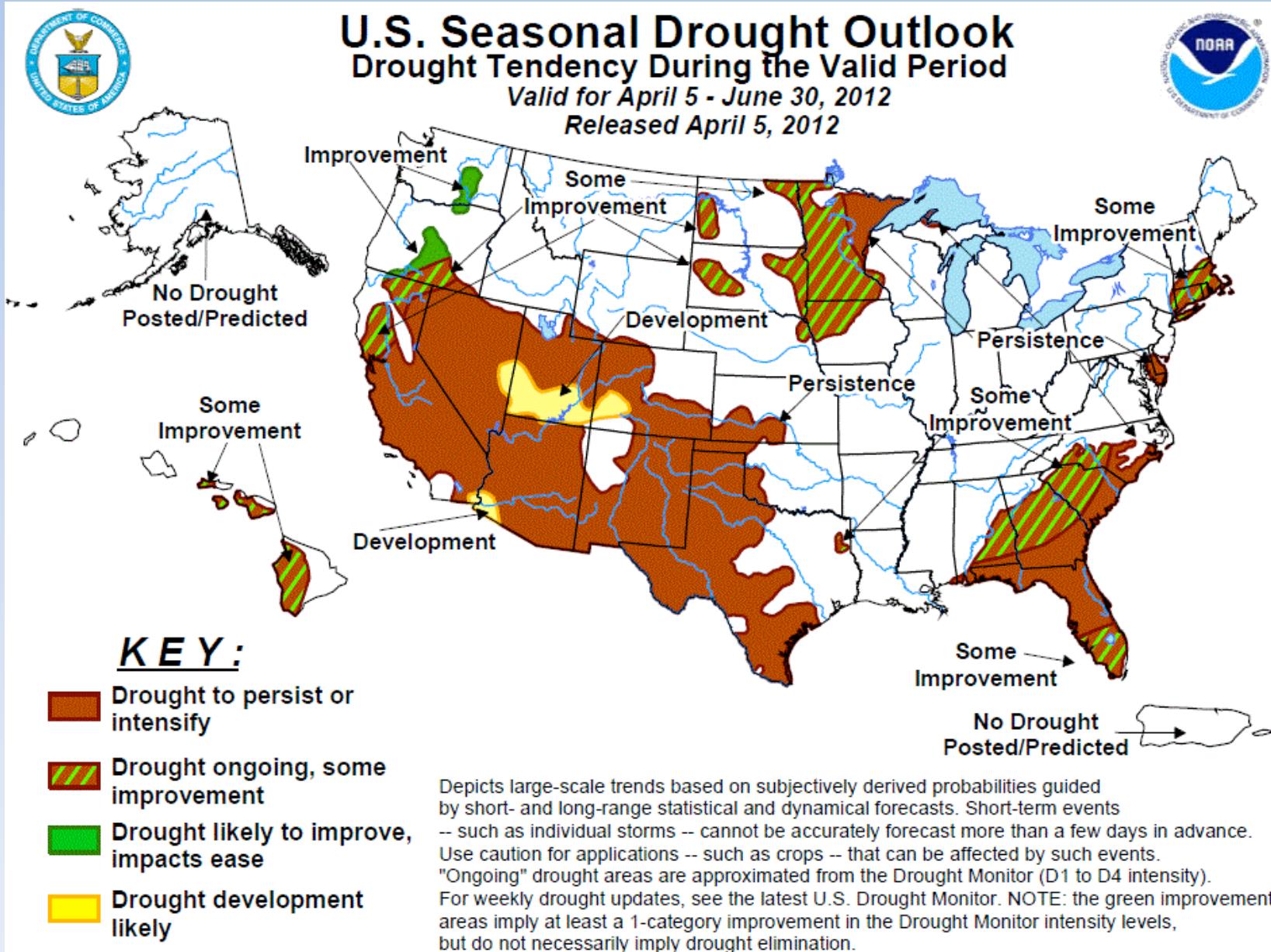


3-month (MAM)



<http://www.cpc.ncep.noaa.gov/products/predictions/30day/>

U.S. Drought Outlook



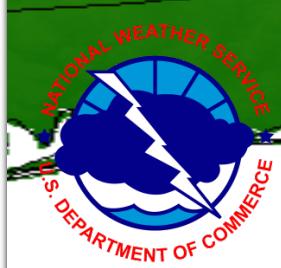
1-Month Streamflow Forecasts

Apalachicola Watershed

Southeast River Forecast Center

April 10 – May 10
2012

- Above Normal
- Near Normal
- Below Normal

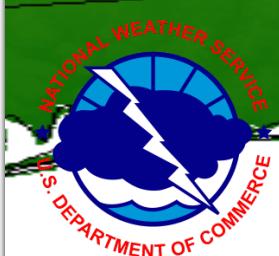
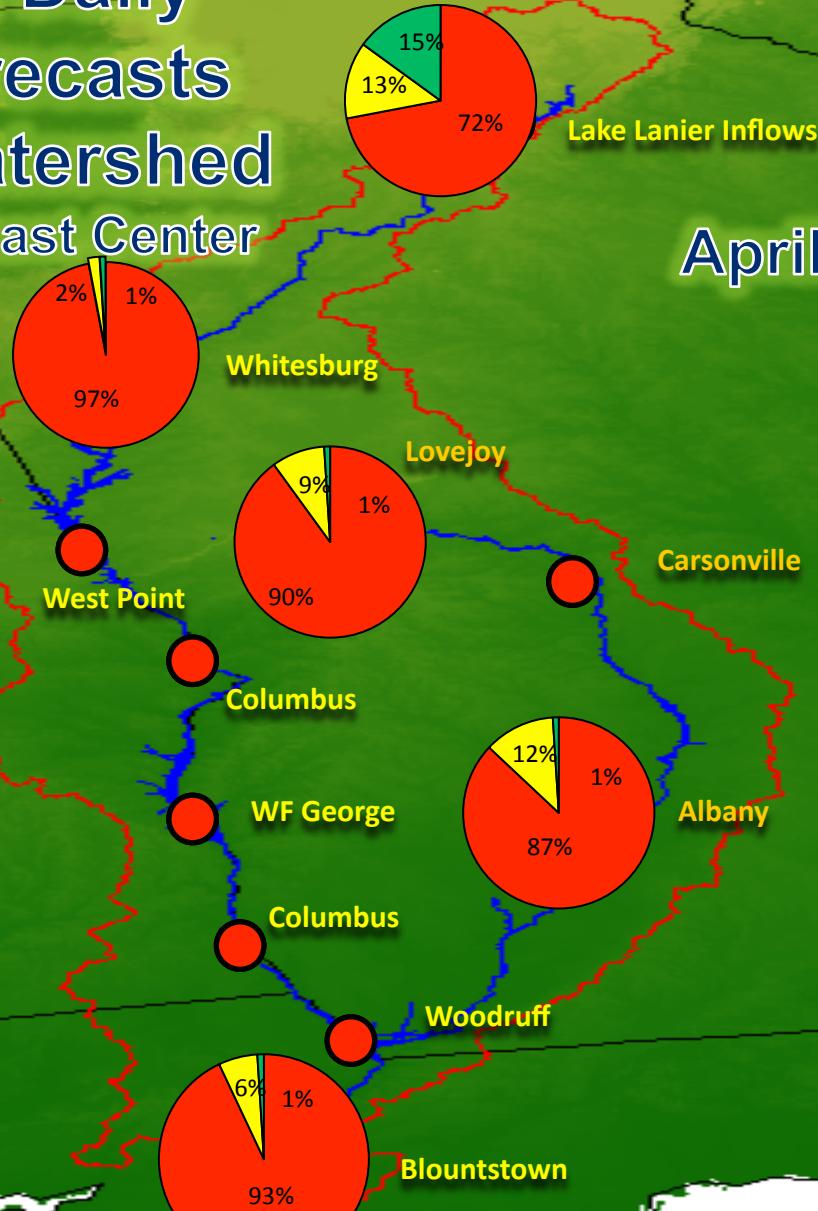


3-Month Mean Daily Streamflow Forecasts Apalachicola Watershed

Southeast River Forecast Center

April 10 – July 10
2012

- Above Normal
- Near Normal
- Below Normal



Summary

- Drought and heat continue through most of the basin with extreme to exceptional drought in the central part of the basin
- Streamflows are all in the lowest 25% of observed values with the lower part of the basin in the lowest 10% of observed values
- Lake Lanier levels have continued to increase, but have not yet reached full pool
- Ground water levels in Miller County, GA have returned to levels that are lower than any previously observed
- Outlooks for rainfall and streamflows all indicate that drought and heat will continue or intensify through May and into June with slightly more chance of chance of recovery in the northern part of the basin than to the south

References

Speakers

David Zierden, FSU

Brian McCallum, USGS

Jeffry Dobur, SERFC

Moderator

Keith Ingram

Additional information

General drought information

<http://drought.gov>

<http://www.drought.unl.edu>

General climate and El Niño information

<http://agroclimate.org/climate/>

Streamflow monitoring

<http://waterwatch.usgs.gov>

Groundwater monitoring

<http://groundwaterwatch.usgs.gov>

Next briefing

1:00 pm EDT
24 April 2012

