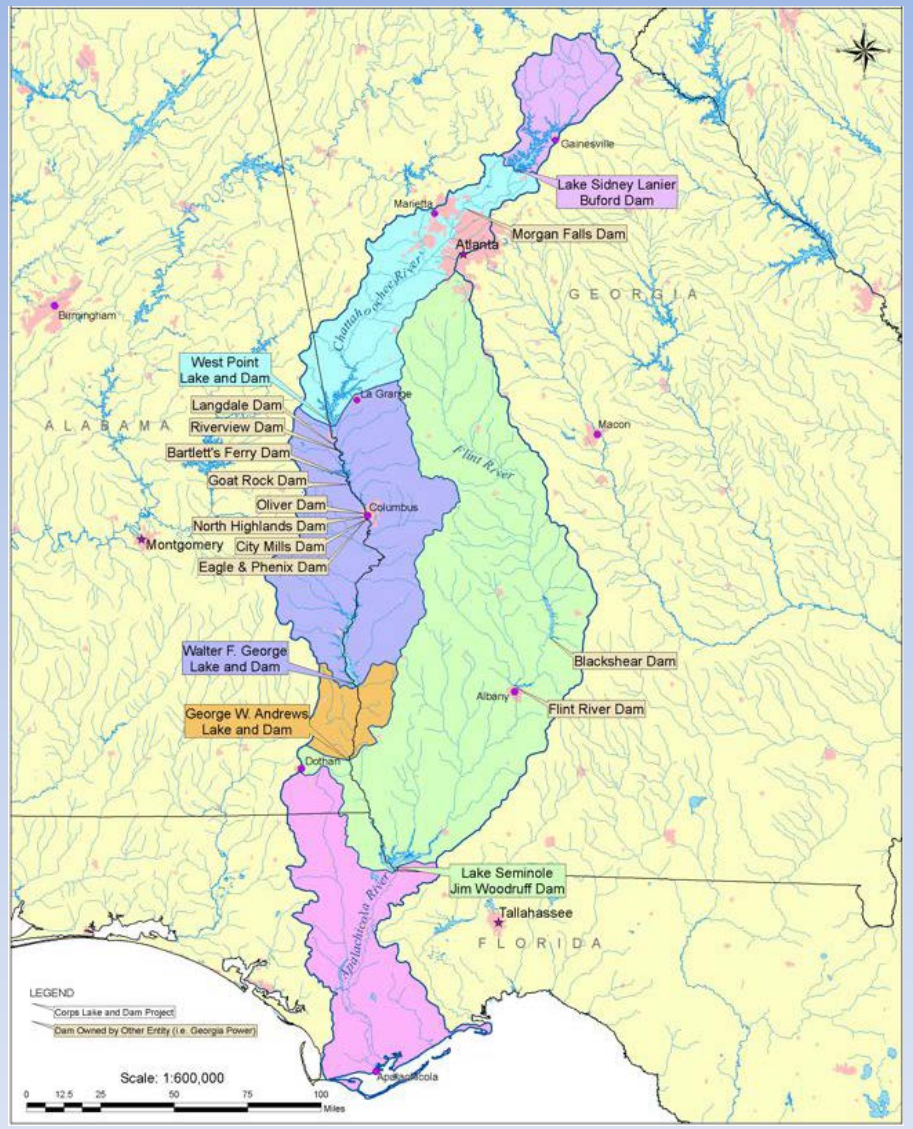
National Integrated Drought Information System

Drought Early Warning for the Apalachicola-Chattahoochee-Flint River Basin

19 January 2016

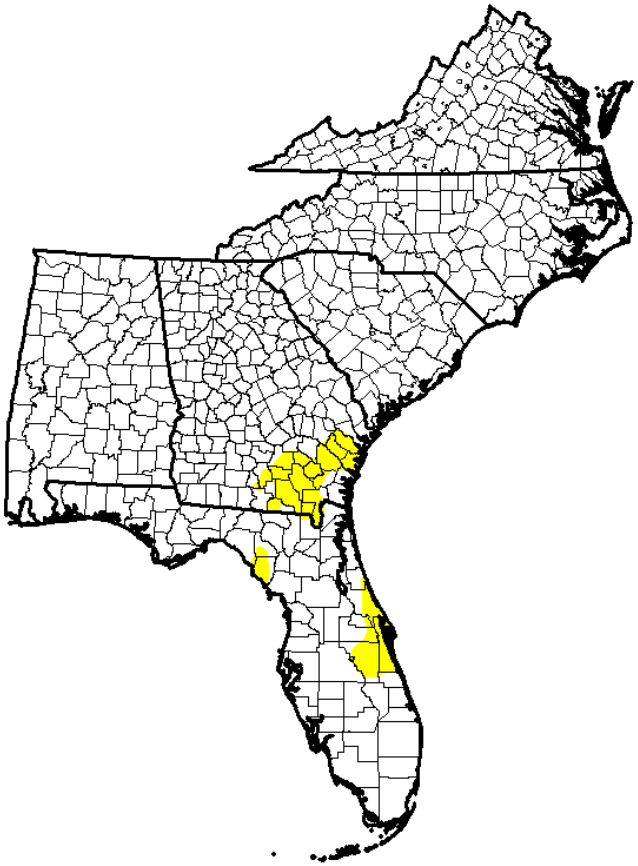


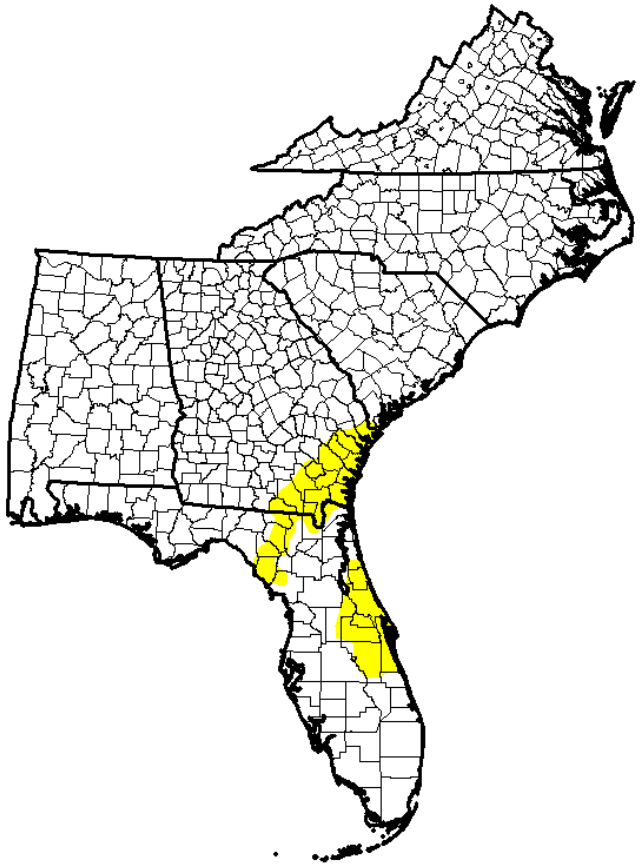
Outline

Welcome – Eric Reutebuch, AU Water Resources Center

- Drought conditions & outlook – Eric Reutebuch, AU
- Streamflows and groundwater – Paul Ankcorn, USGS
- Streamflow forecasts – Jeff Dobur, SERFC
- Summary and Discussion

Current drought status





Intensity:

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

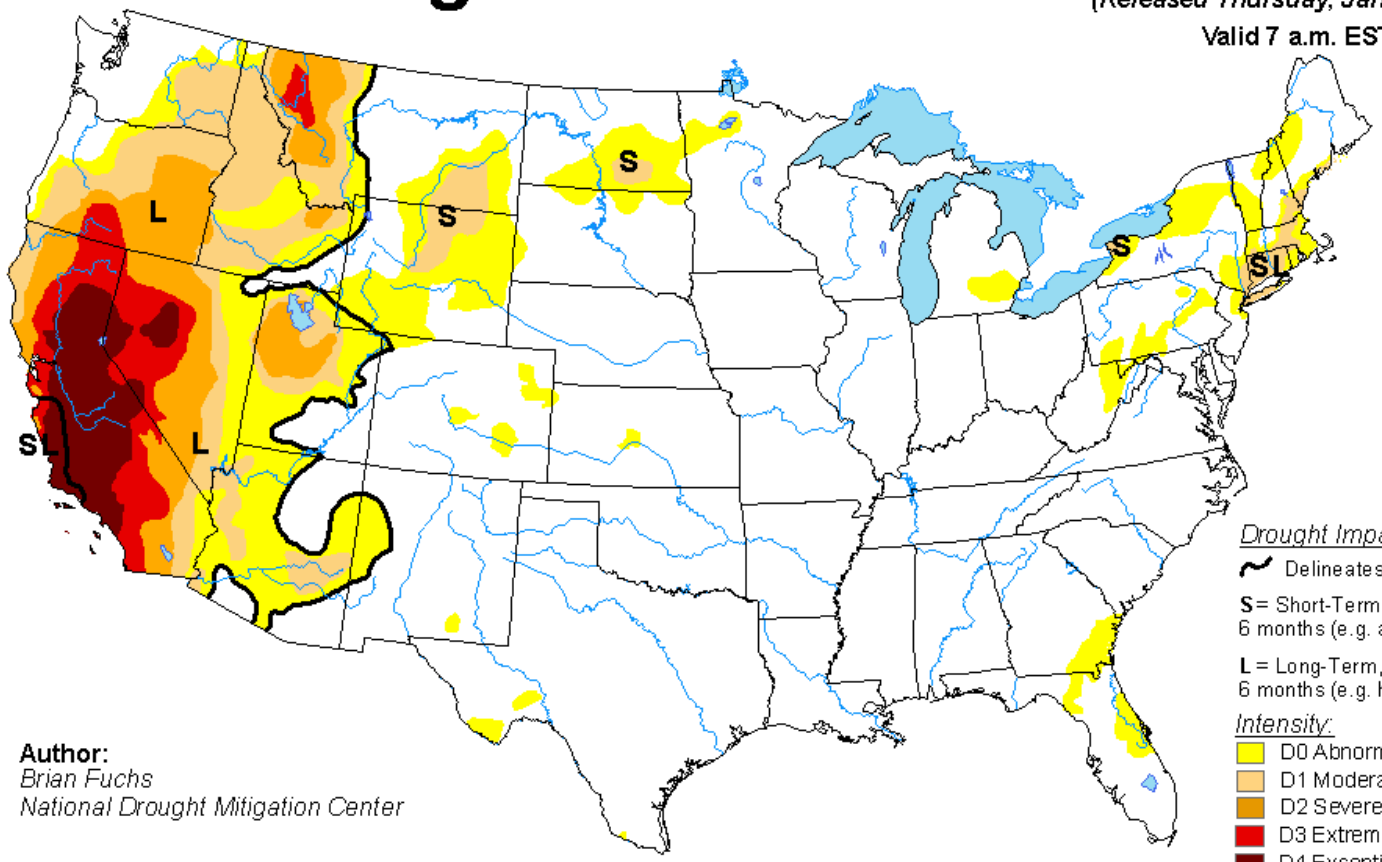
*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.*

U.S. Drought Monitor

January 12, 2016

(Released Thursday, Jan. 14, 2016)

Valid 7 a.m. EST



Author:
Brian Fuchs
National Drought Mitigation Center

Drought Impact Types:

Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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

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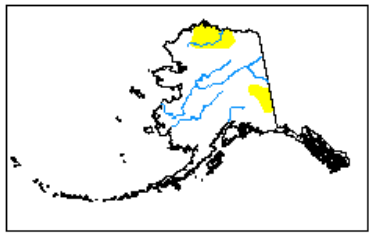
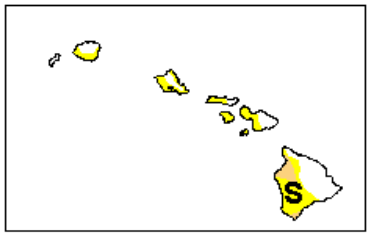
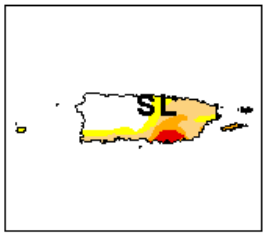




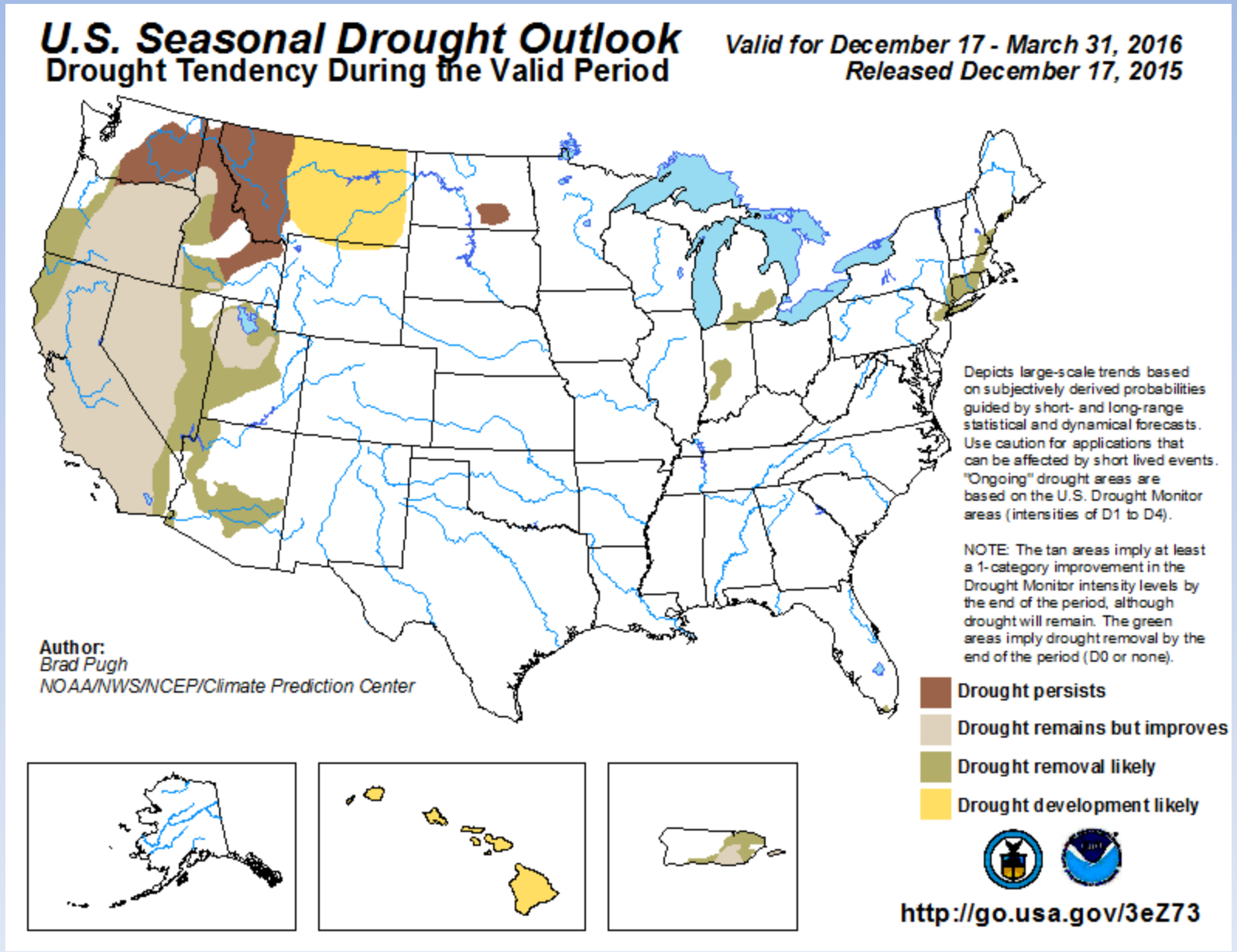


USDA

National Drought Mitigation Center

http://droughtmonitor.unl.edu/

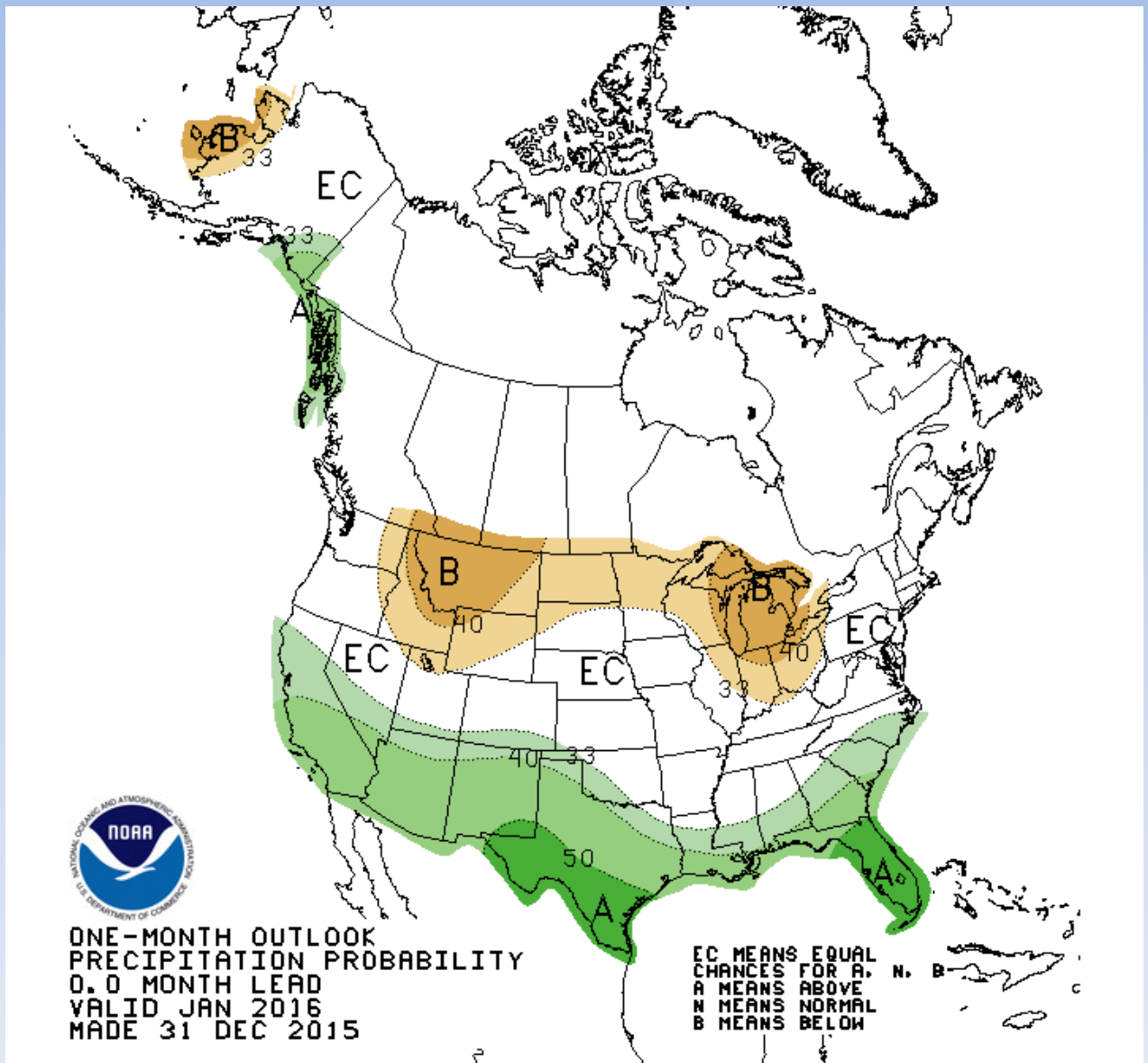
U.S. Drought Outlook



National Weather Service Climate Prediction Center

Revised OFFICIAL Forecasts – One Month Outlook for Precipitation

January 2016

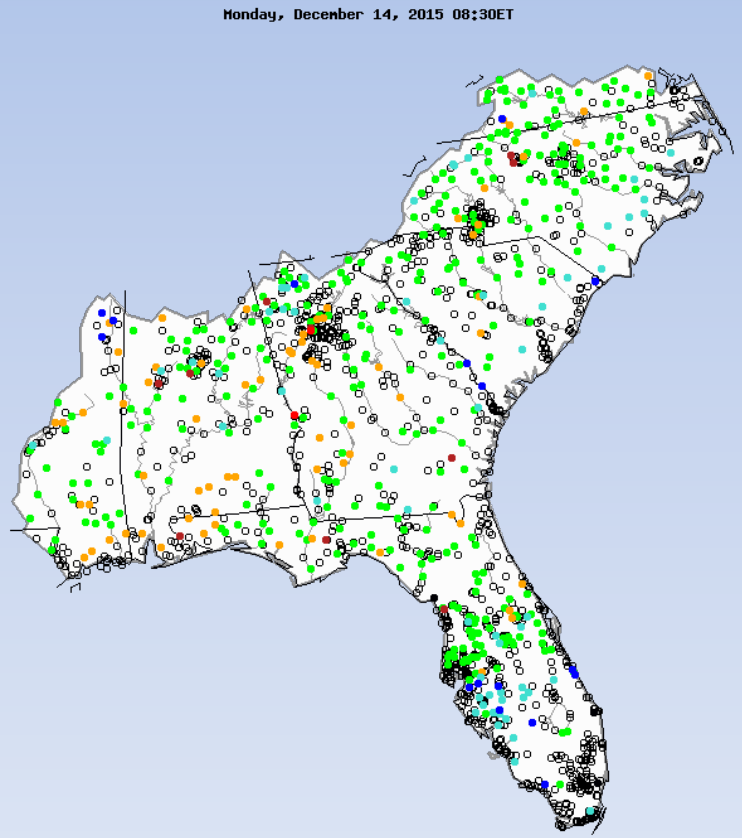


Streamflows and Groundwater

Paul Ankcorn

Realtime stream flow compared with historical monthly averages

Previous Brief:



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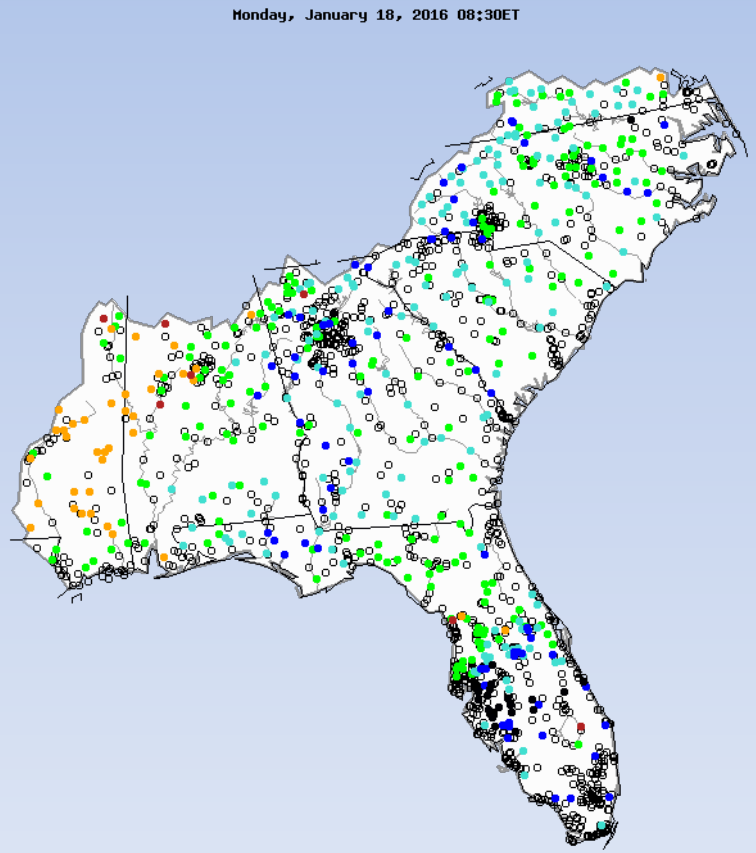


USGS Explanation - Percentile classes

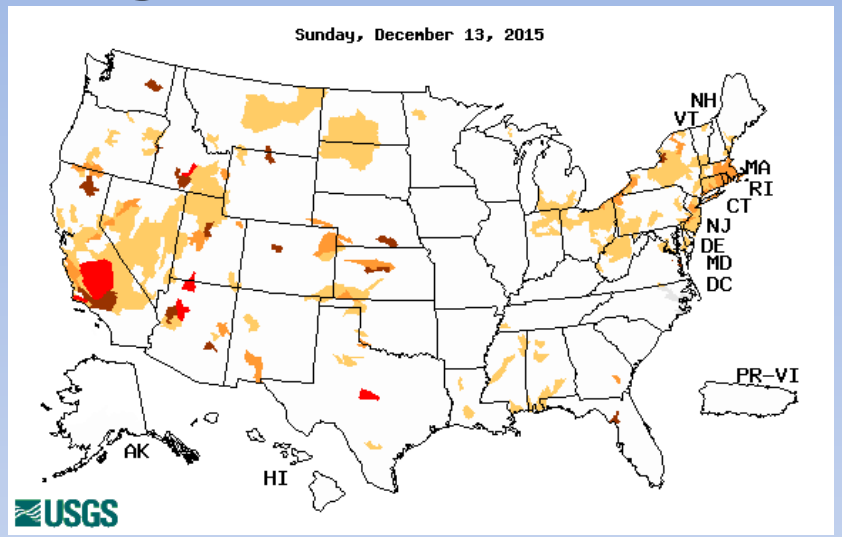
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High

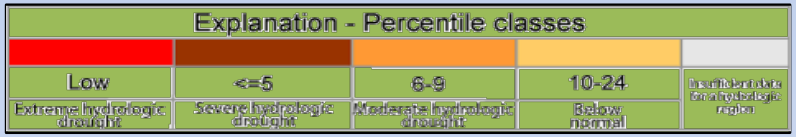
USGS http://waterwatch.usgs.gov

Below Normal 7-day Average Streamflows

Previous brief:

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





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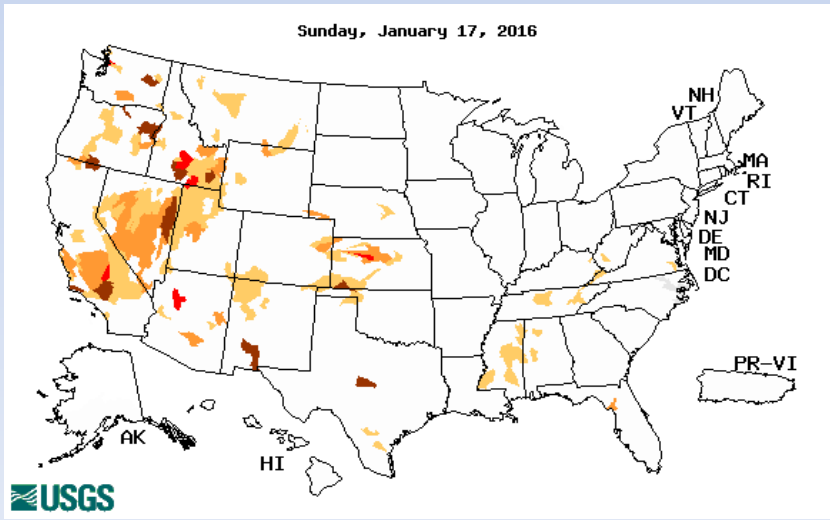


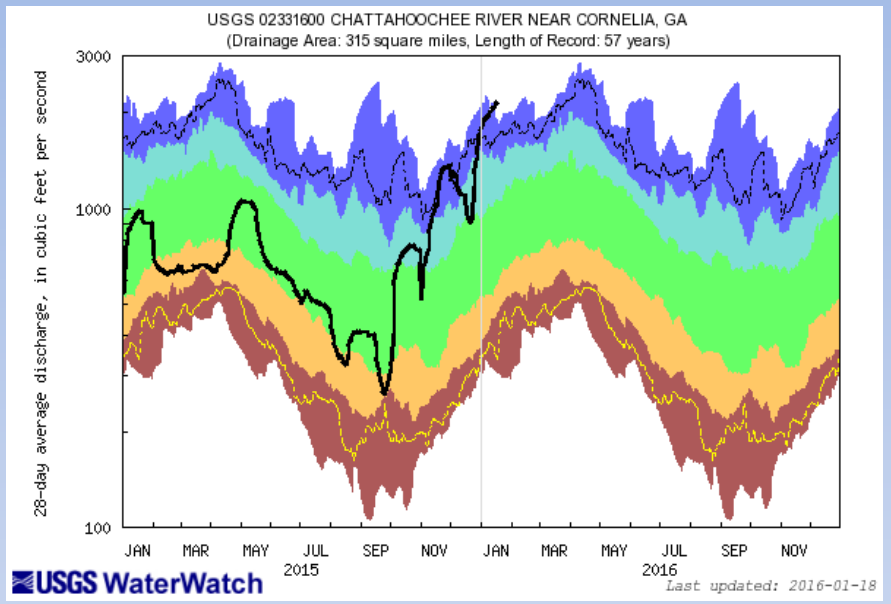
http://waterwatch.usgs.gov

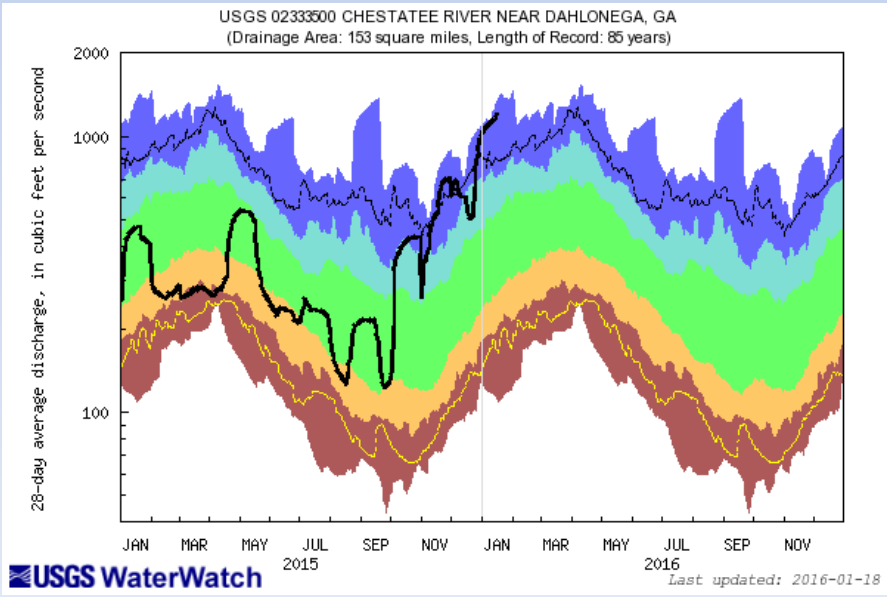
Lake Lanier Inflows

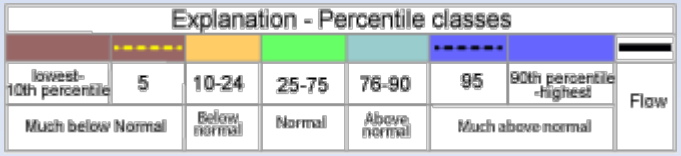
Chattahoochee near Cornelia (02331600)

http://waterwatch.usgs.gov

Chestatee near Dahlonega (02333500)





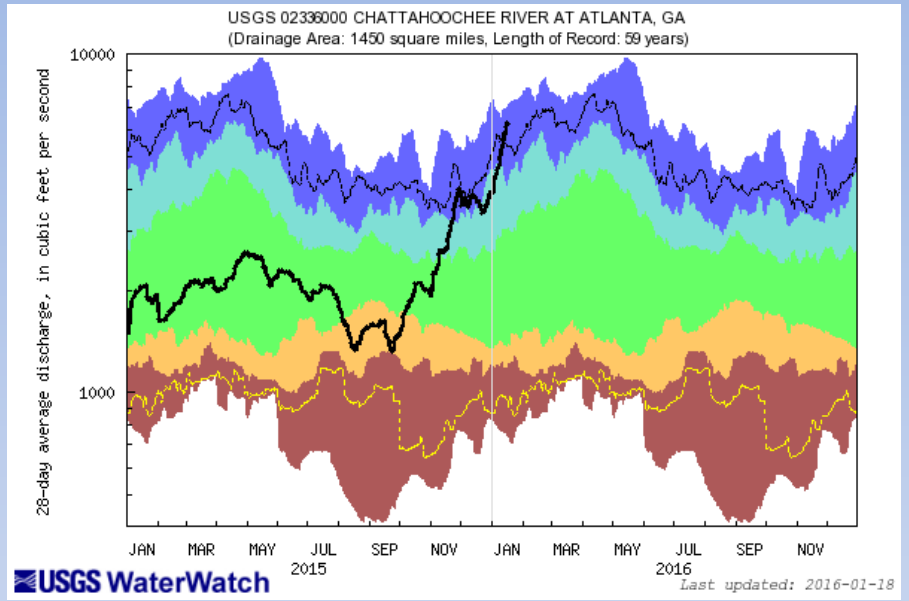


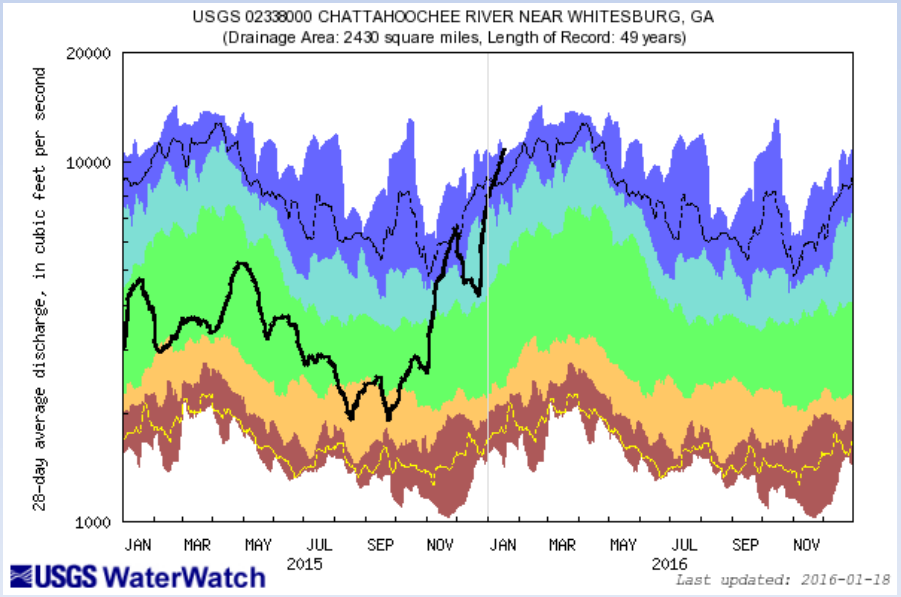
Current Streamflows

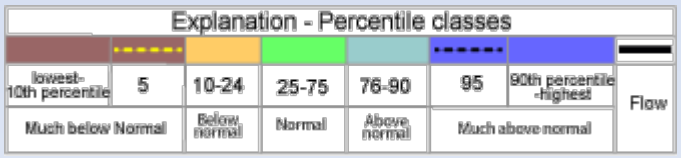
Chattahoochee at Atlanta (02336000)

http://waterwatch.usgs.gov

Chattahoochee near Whitesburg (02338000)

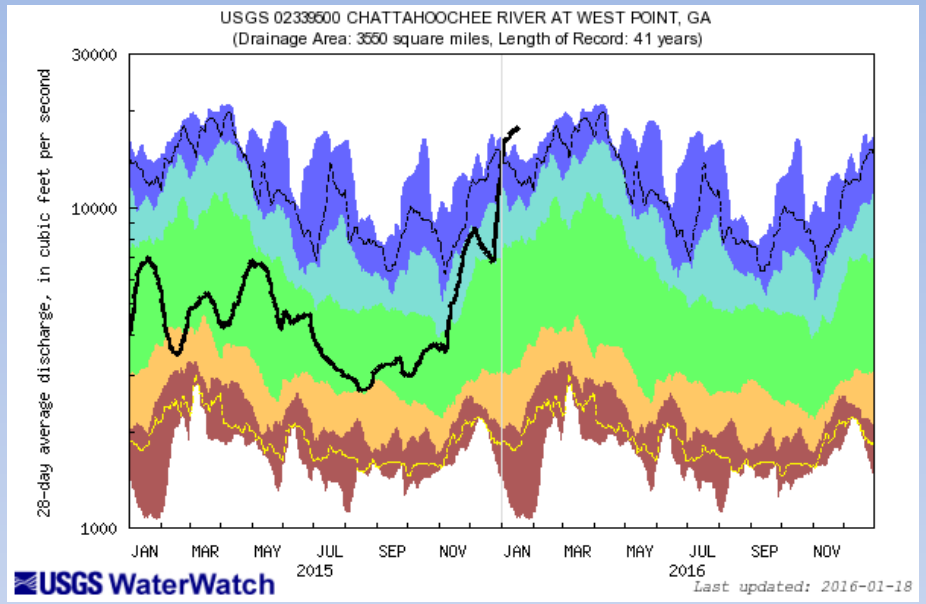






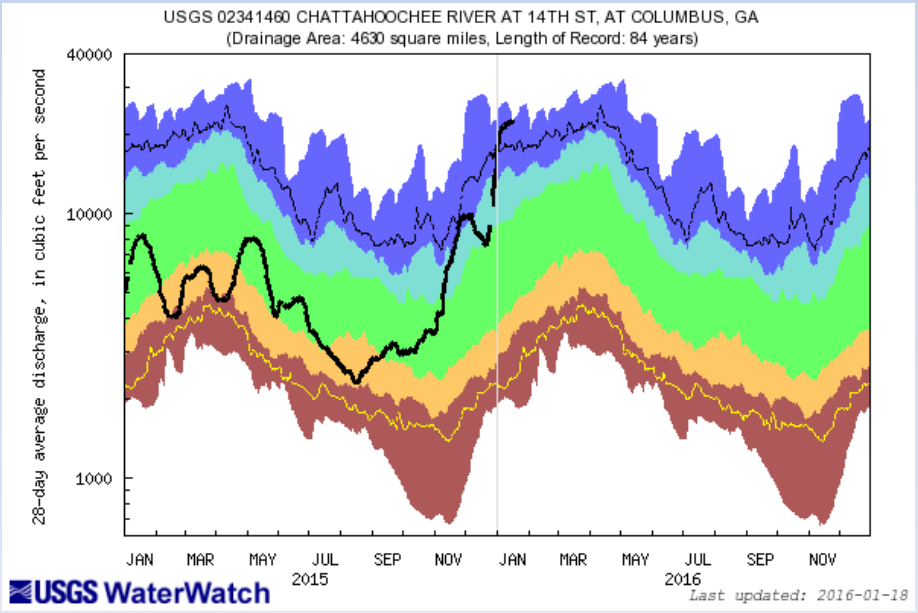
Current Streamflows

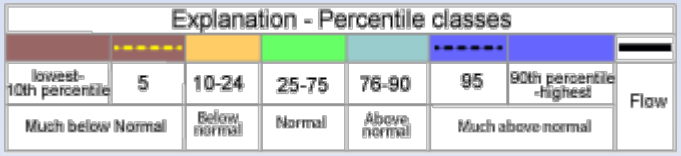
Chattahoochee at West Point (02339500)



http://waterwatch.usgs.gov

Chattahoochee at Columbus(02341460)



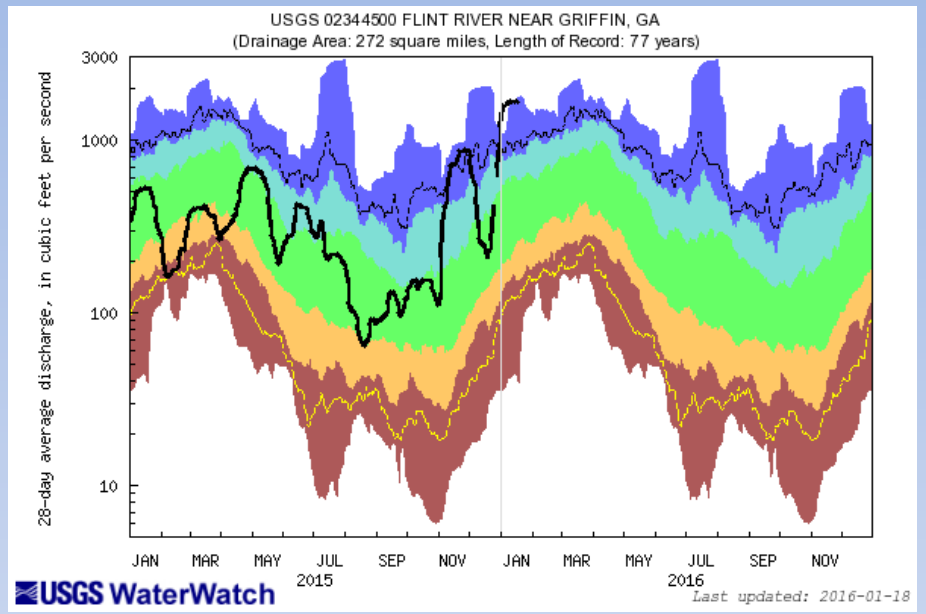


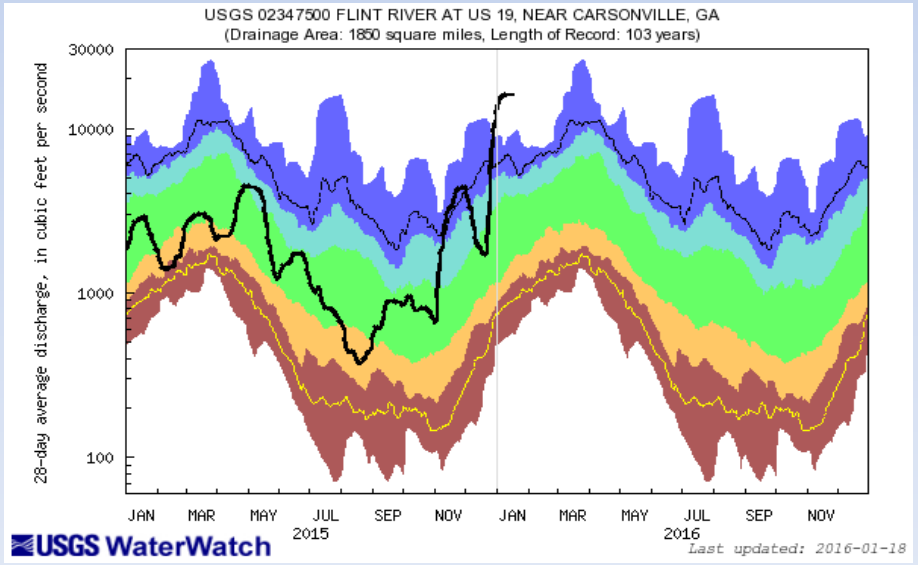
Current Streamflows

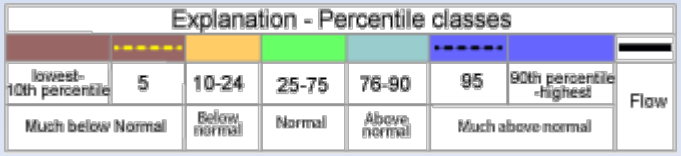
Flint River near Griffin (02344500)

http://waterwatch.usgs.gov

Flint River near Carsonville (02347500)



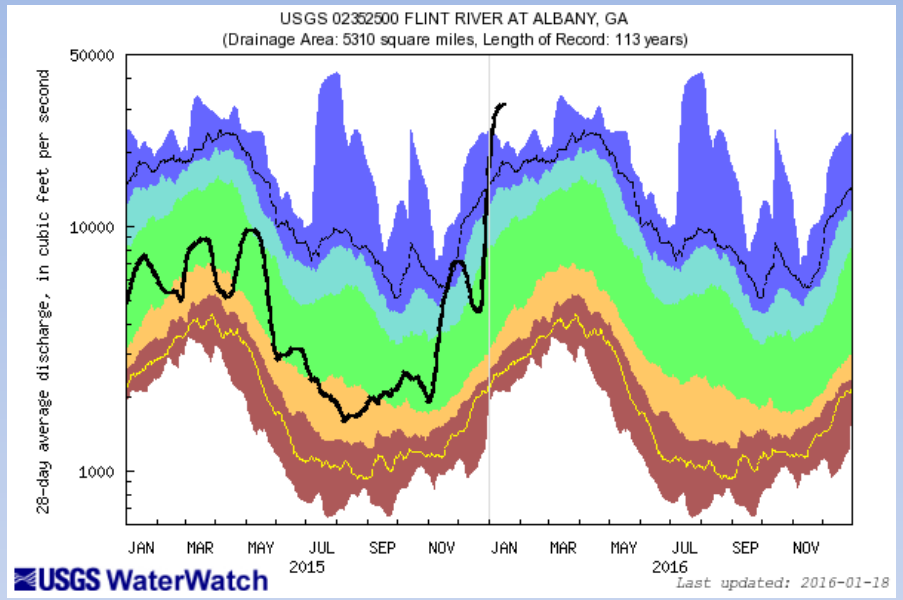




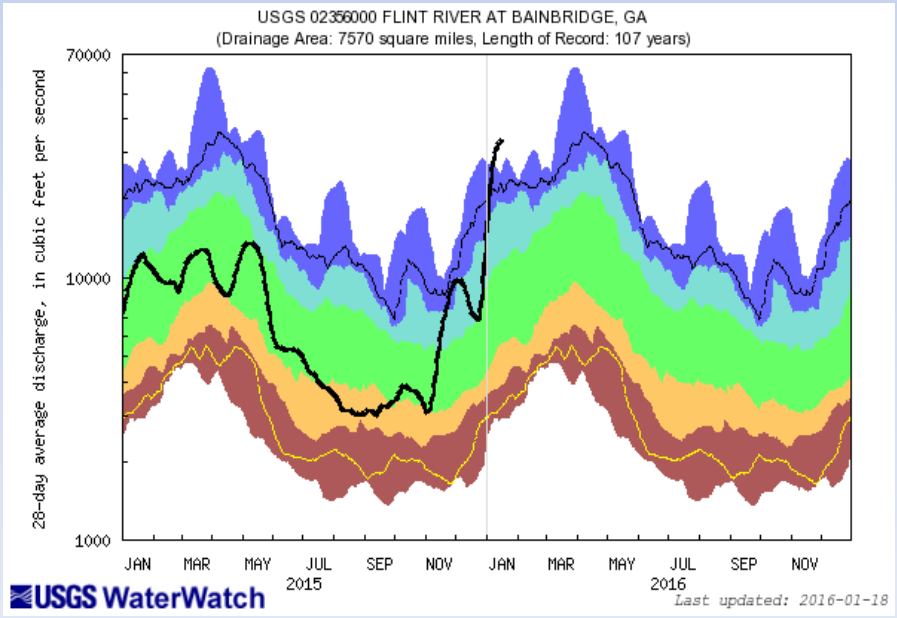
Current Streamflows

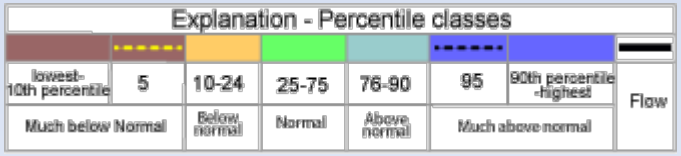
Flint River at Albany (02352500)

http://waterwatch.usgs.gov



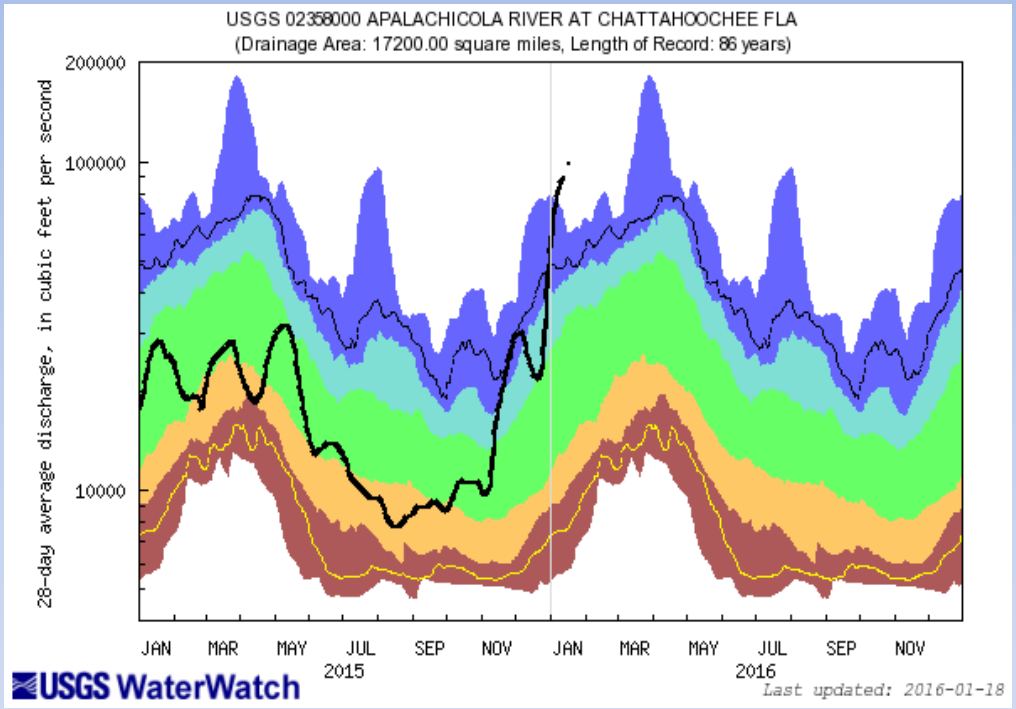
Flint at Bainbridge (02356000)



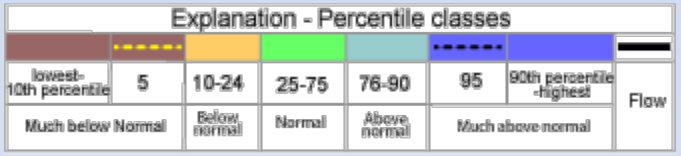


Streamflows

Apalachicola at Chattahoochee (02358000)

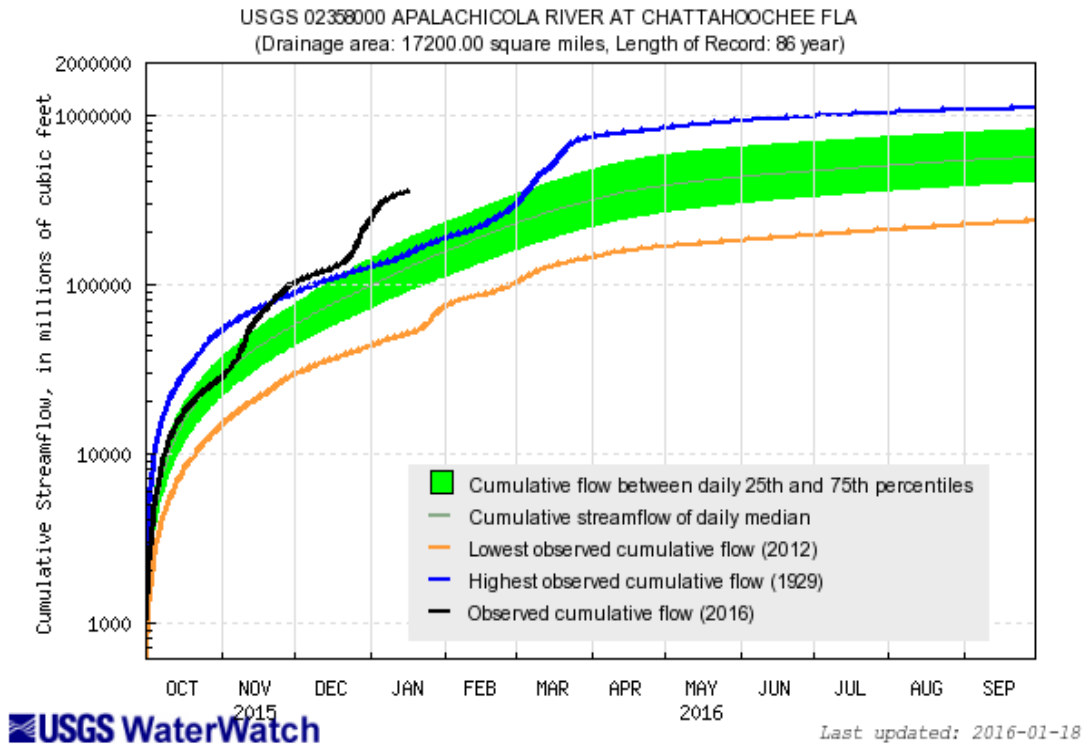


http://waterwatch.usgs.gov



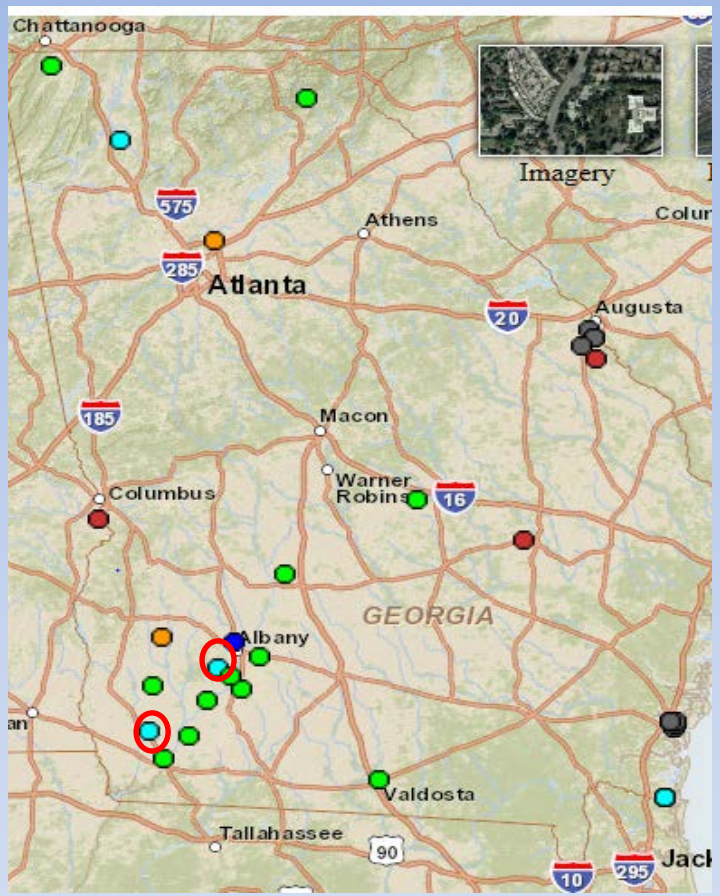
Streamflows

Apalachicola at Chattahoochee (02358000)

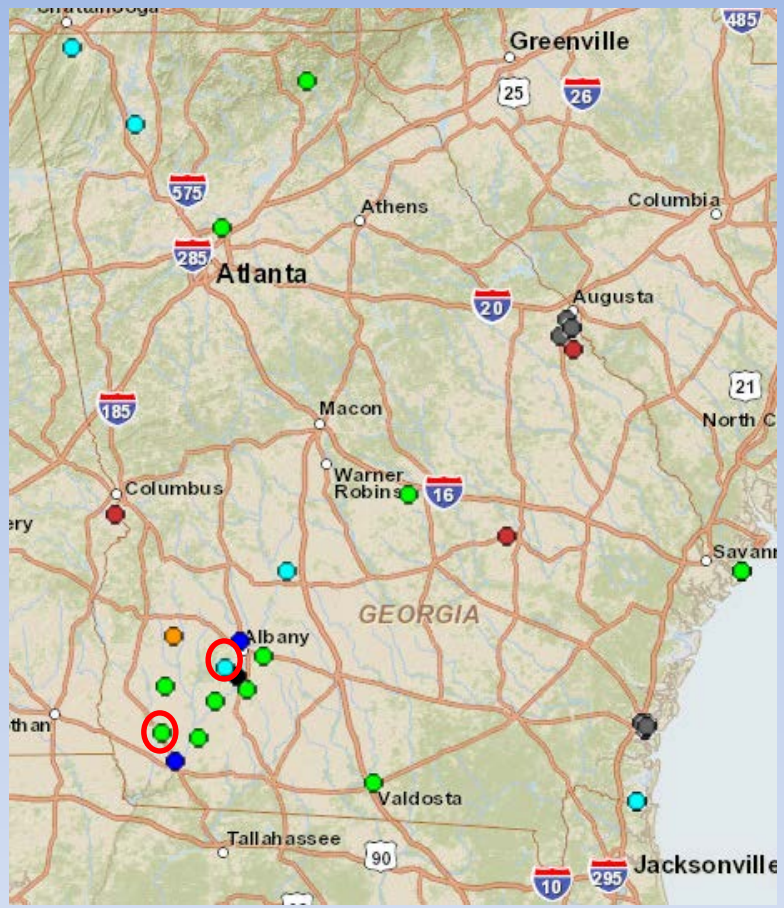


http://waterwatch.usgs.gov

Groundwater Conditions



Previous brief



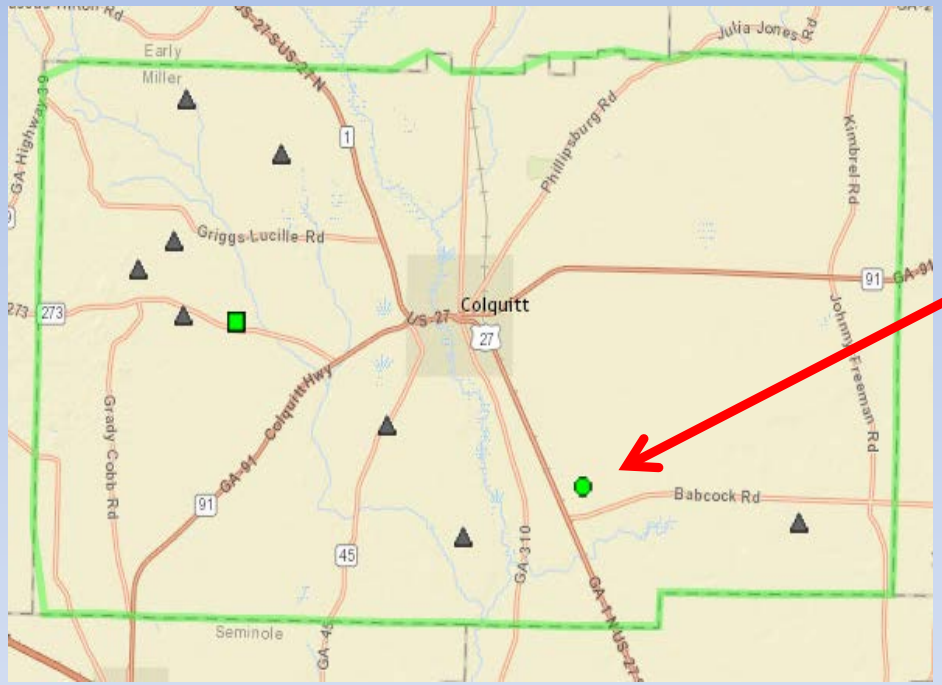
Current brief

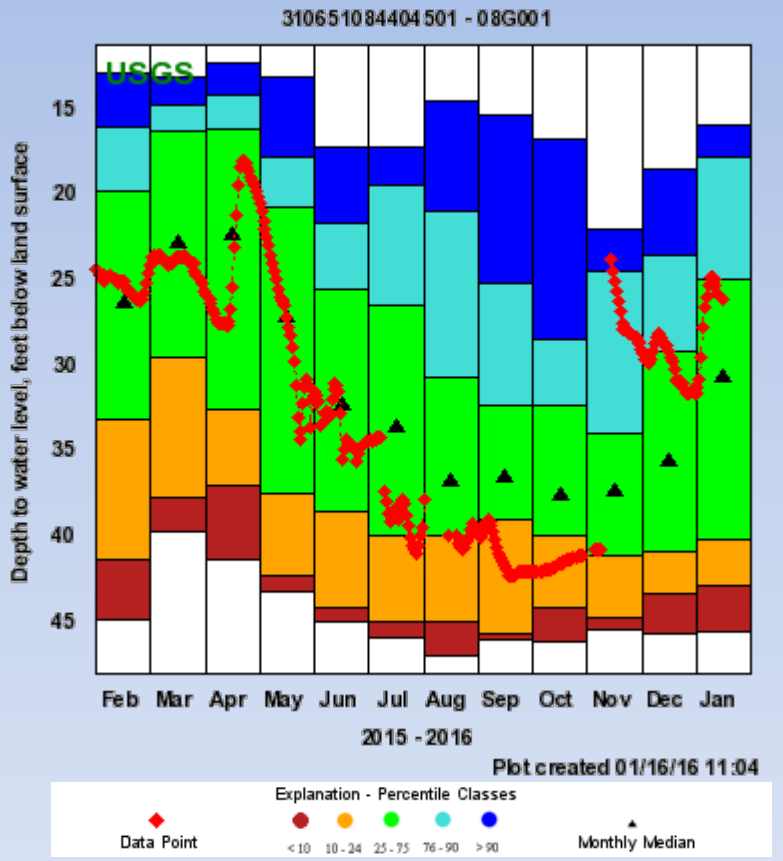
Explanation - Percentile classes (symbol color based on most recent measurement)							
Low	<10	10-24	25-75	76-90	>90	High	Not Ranked
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal		

Wells	Springs
Real-Time	
Continuous	
Periodic Measurements	

http://groundwaterwatch.usgs.gov

Groundwater Status – Miller County 08G001





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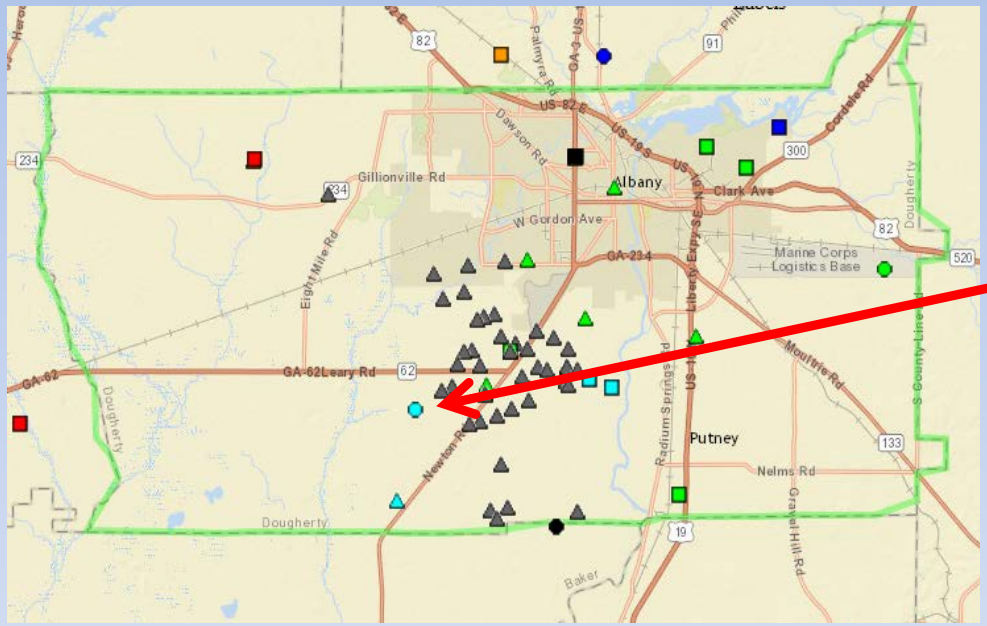
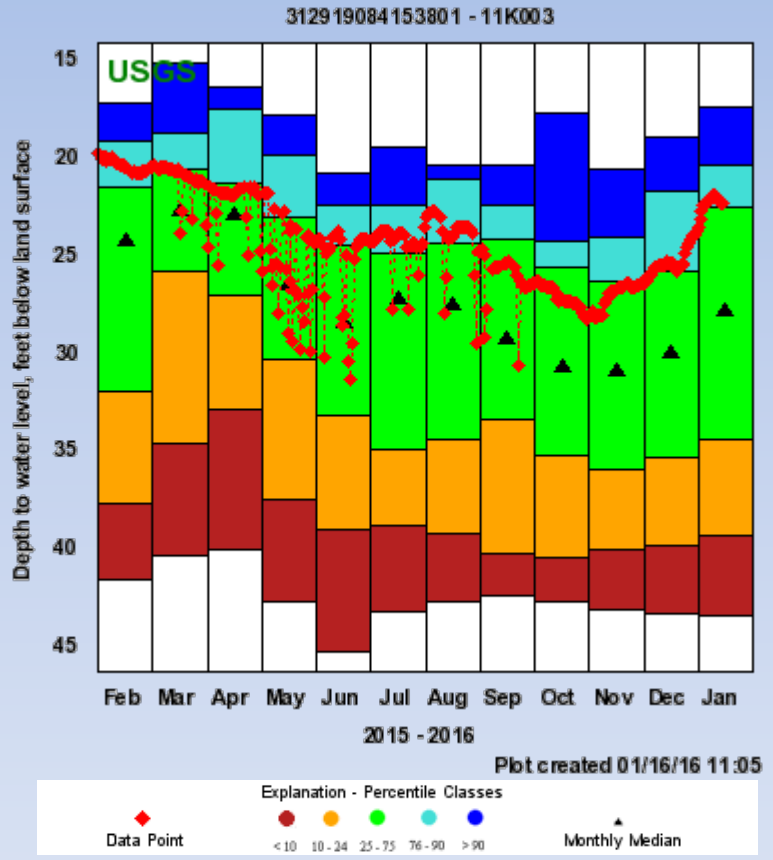
Wells	Springs
Real-Time	
Continuous	
Periodic Measurements	

(Upper Floridan Aquifer)

Groundwater Status – Dougherty County 11K003





Explanation - Percentile classes (symbol color based on most recent measurement)							
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Wells / Springs
Real-Time
Continuous
Periodic Measurements

(Upper Floridan Aquifer)

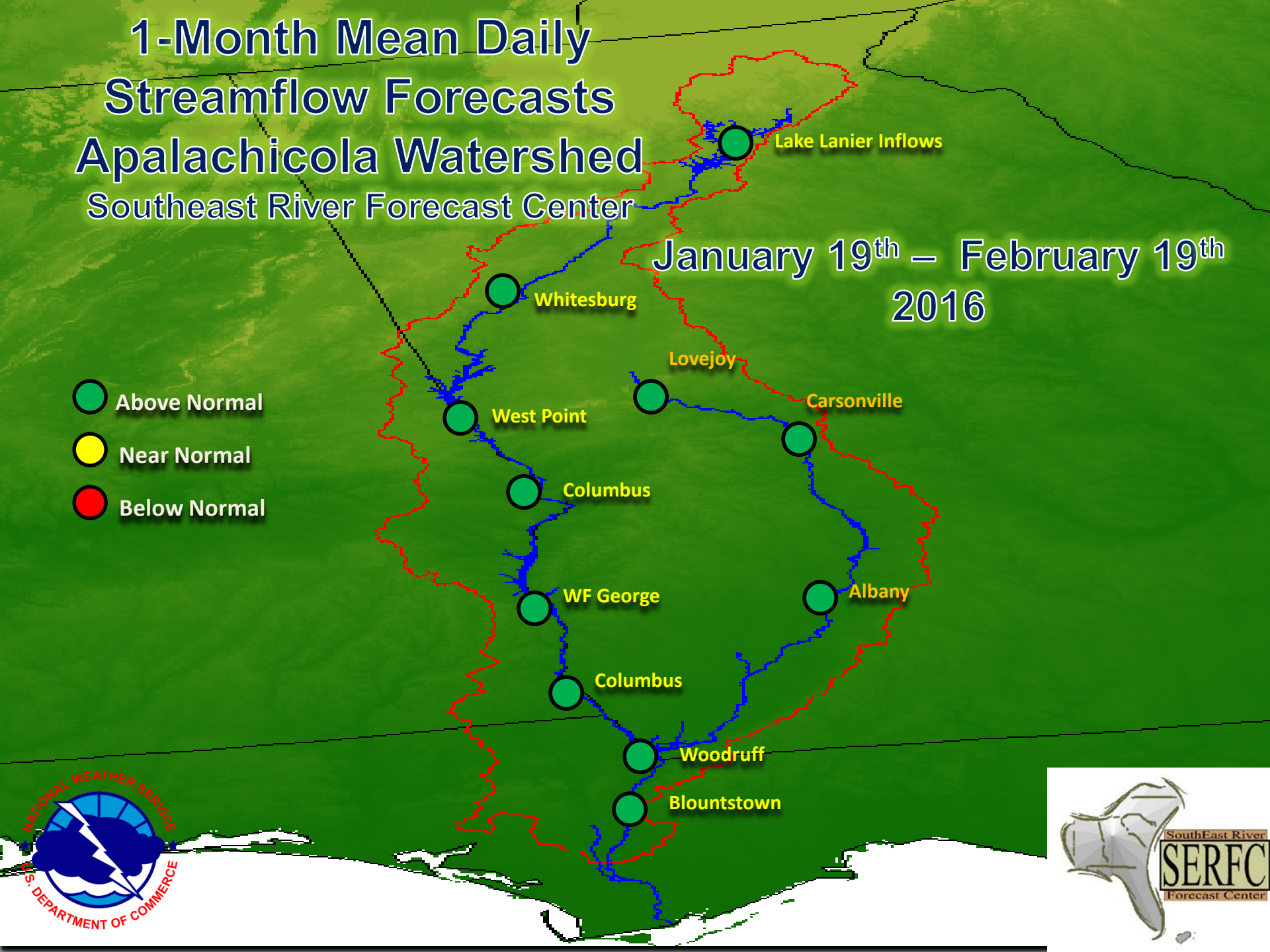
Streamflow Forecasts

Jeff Dobur

1-Month Mean Daily Streamflow Forecasts Apalachicola Watershed

Southeast River Forecast Center

January 19th – February 19th 2016

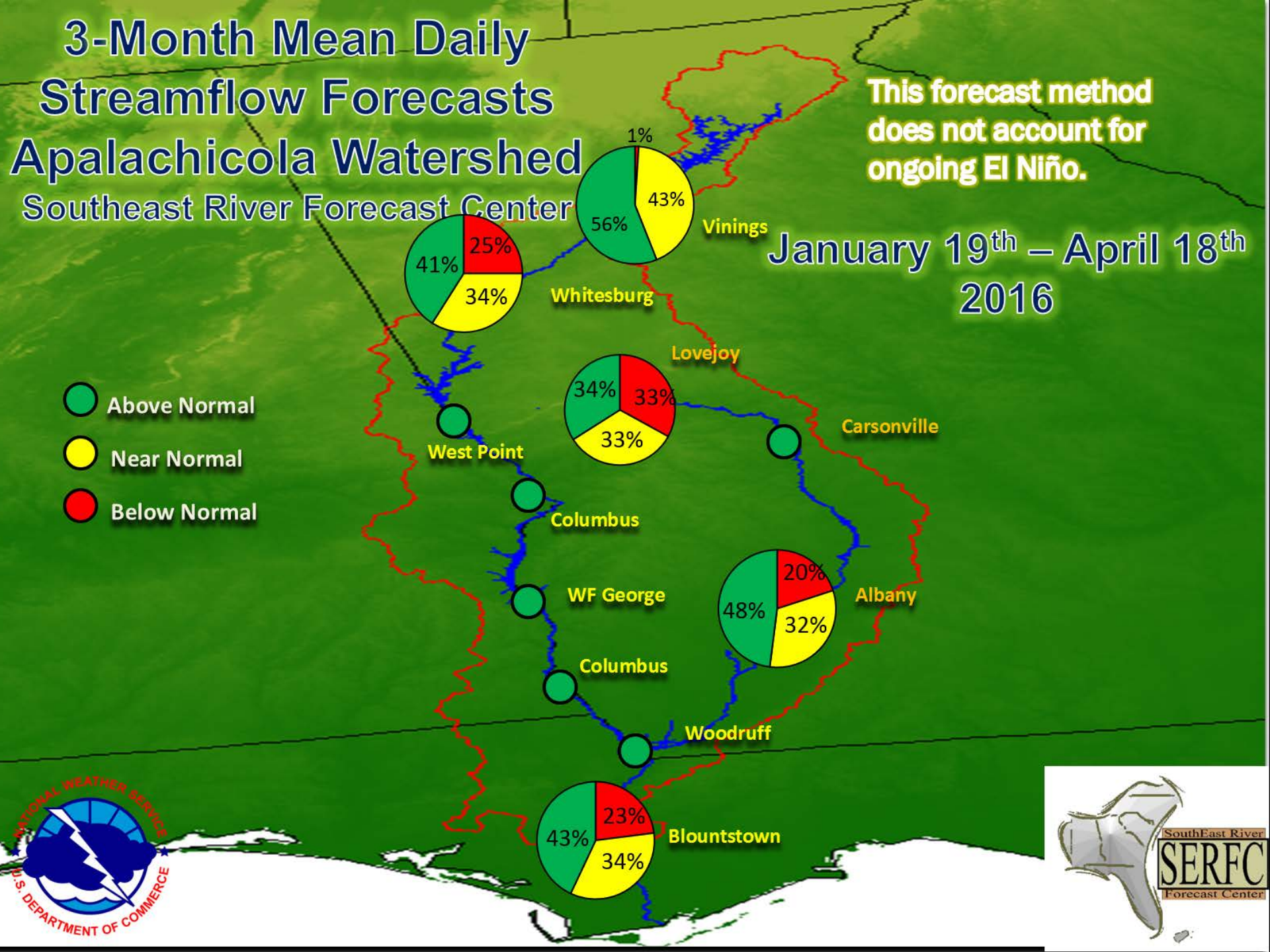


3-Month Mean Daily Streamflow Forecasts Apalachicola Watershed

Southeast River Forecast Center

This forecast method does not account for ongoing El Niño.

January 19th – April 18th 2016



NATIONAL WEATHER SERVICE
U.S. DEPARTMENT OF COMMERCE

SouthEast River
SERFC
Forecast Center

Summary – Eric Reutebuch

- All portions of ACF Basin completely drought-free according to the US Drought Monitor.
- Climate Prediction Center's one-month outlook favors a pattern of above-normal rainfall for all the Southern U.S.
- CPC El Niño Advisory: A strong El Niño is expected to gradually weaken through spring 2016, and to transition to ENSO-neutral during late spring or early summer (see www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/index.shtml)
- Drought very unlikely to develop in the basin over the next several months.

Summary-Paul Ankcorn

- Realtime streamflows range from normal to much above normal for most of the ACF basin, with the majority of stream gages in the above normal to much above normal range.
- 28-day average streamflows into Lake Lanier are much above normal.
- 28-day average streamflows for the Flint River are period of record highs for January.
- Groundwater levels are in the normal to above normal range in Southwest Georgia.

Summary – Jeff Dobur

- 1 Month Streamflow forecast - Above Normal
- 3 Month Streamflow forecast – Favor Above Normal
- Pie Charts do not bias toward any future forecast such as ENSO, CPC or other. Based on soil conditions relative to normal in concert with historical precipitation.

Questions, Comments, Discussion

References

Speakers

Eric Reutebuch, AU

Paul Ankcorn, USGS

Jeff Dobur, SERFC

Moderator

Eric Reutebuch, AU WRC

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 & forecasting
  http://waterwatch.usgs.gov
  http://www.srh.noaa.gov/serfc/
- Groundwater monitoring
  http://groundwaterwatch.usgs.gov

Thank you!

Next briefing

February 16, 2016, 1:00 pm EDT

Moderator: Eric Reutebuch

Slides from this briefing will be posted at

http://drought.gov/drought/content/regional-programs/regional-drought-webinars

Please send comments and suggestions to:

reuteem@auburn.edu