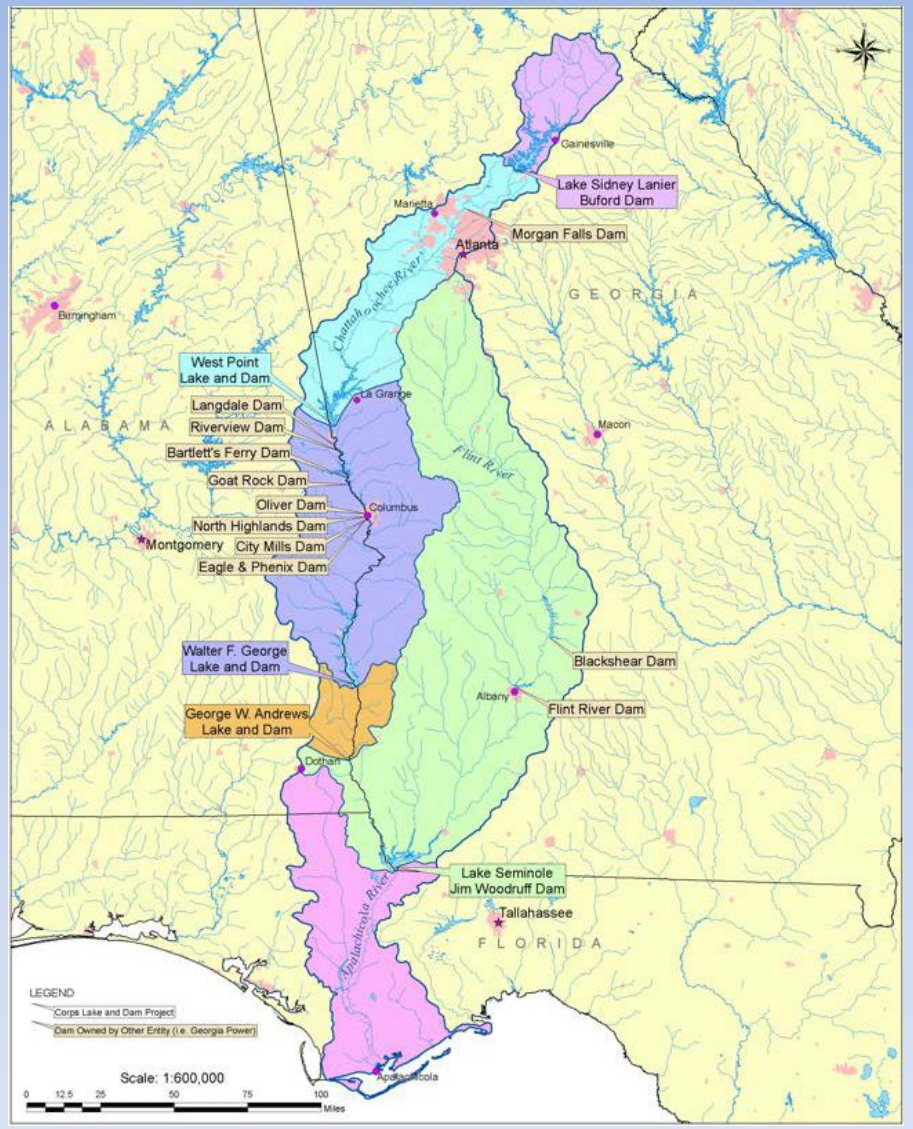
National Integrated Drought Information System

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

17 February 2015



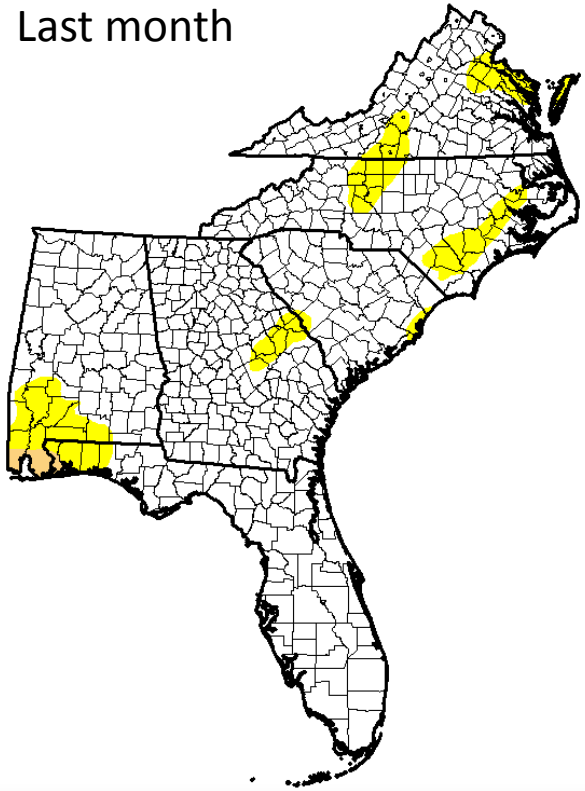
Outline

Welcome – Eric Reutebuch, AU Water Resources Center

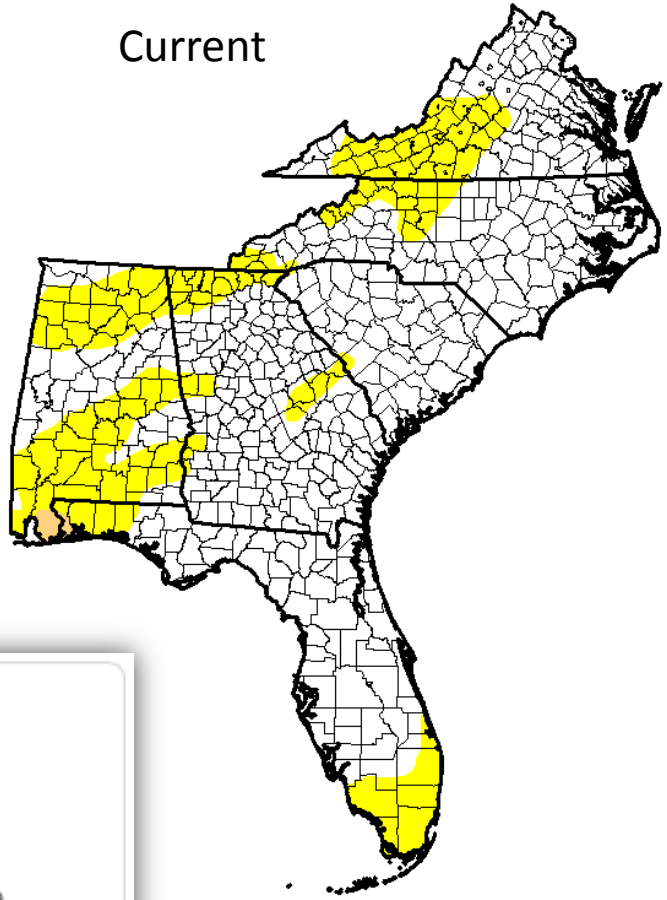
- Current drought status, seasonal forecasts
- Streamflows and groundwater – Tony Gotvald, USGS
- Deterministic precipitation – new product from NOAA
- Summary and Discussion

Current drought status

Last month



Current



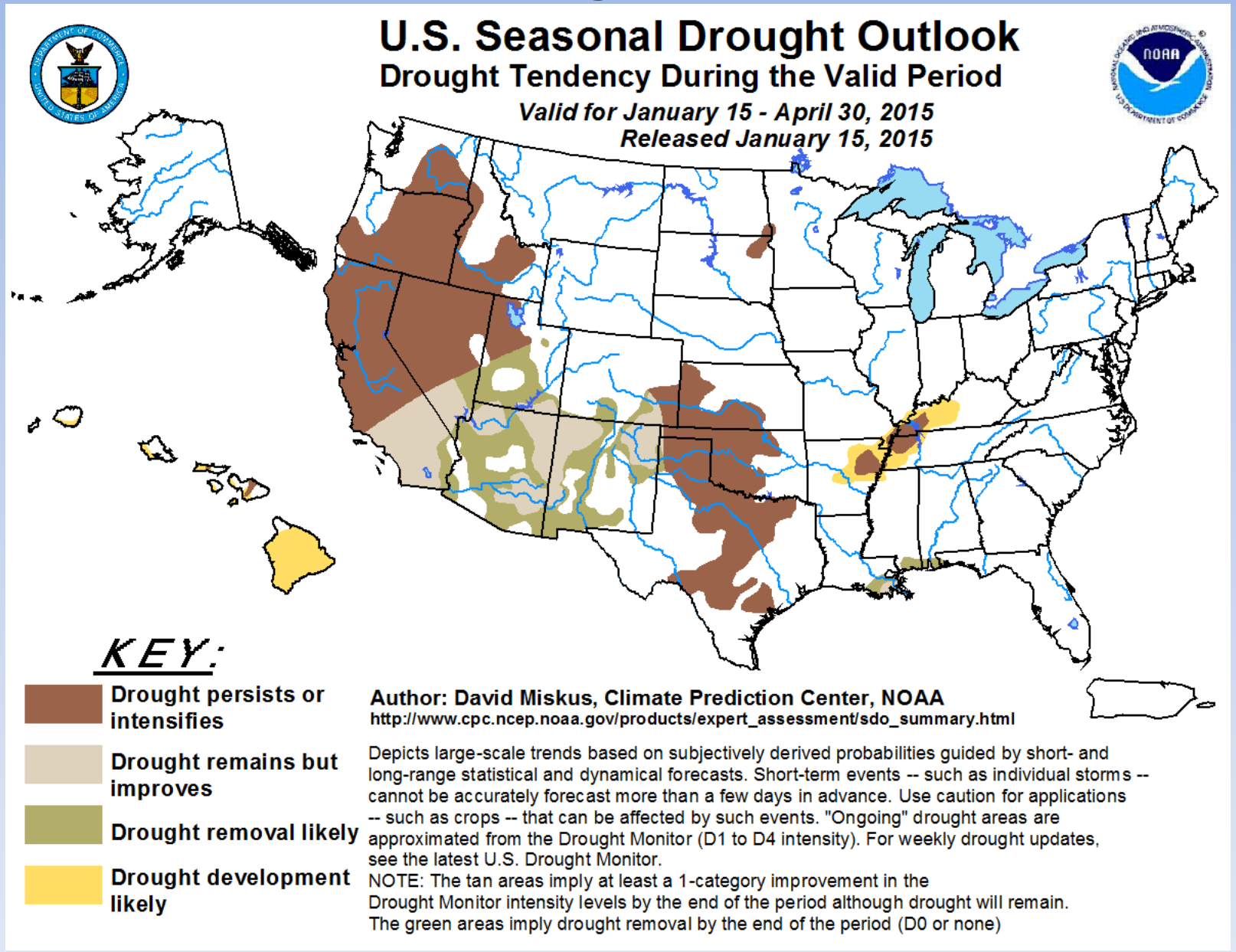
Intensity:

- 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.*

http://droughtmonitor.unl.edu/

U.S. Drought Outlook

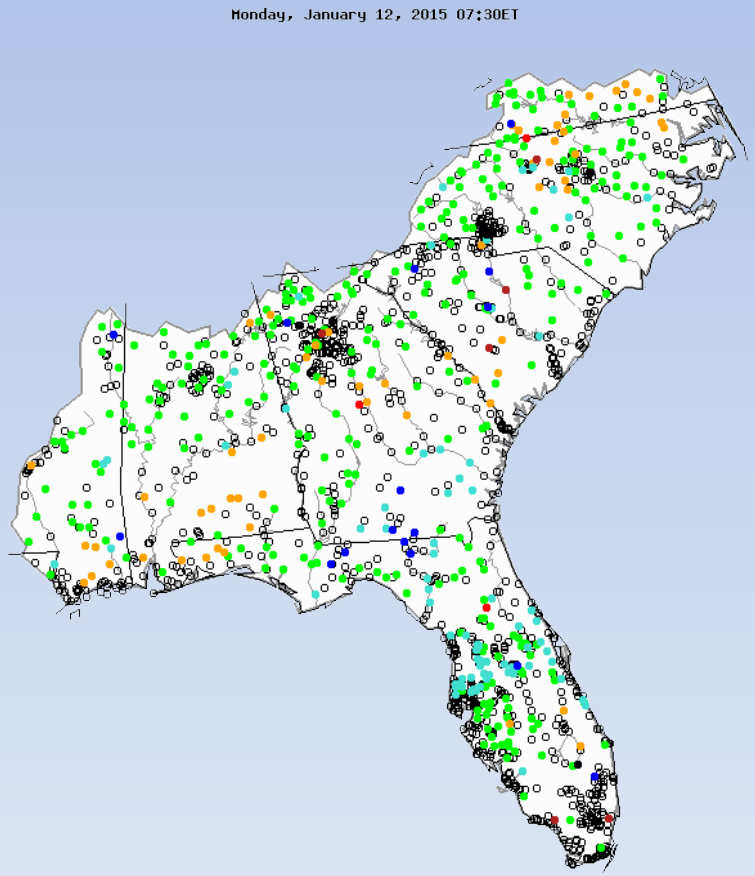


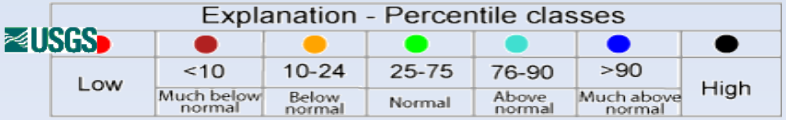
Streamflows and Groundwater

Tony Gotvald

Realtime stream flow compared with historical monthly averages

Previous Brief:





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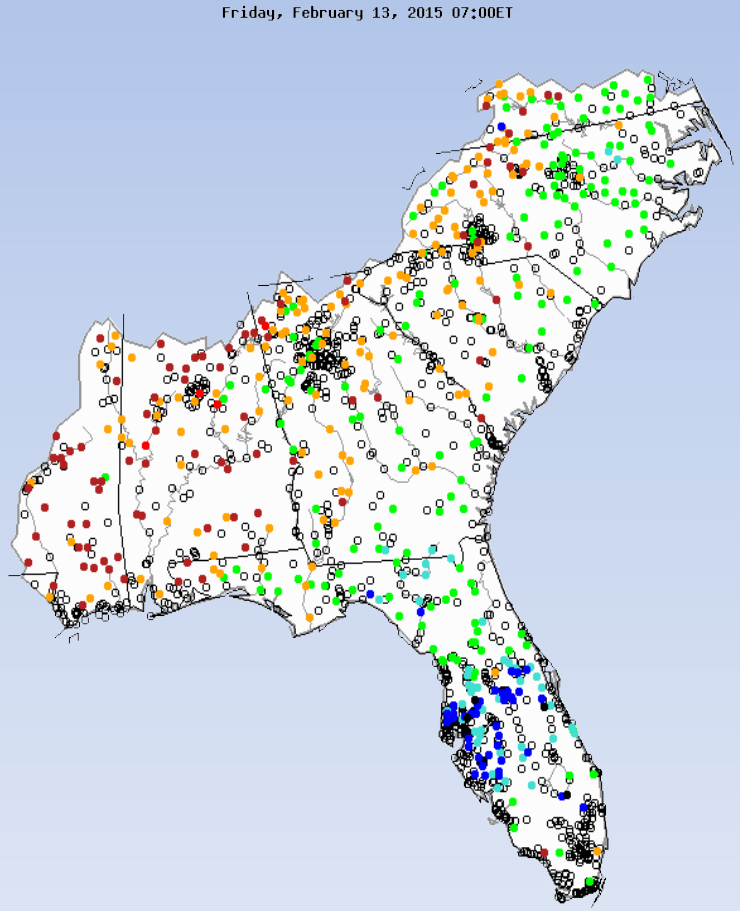
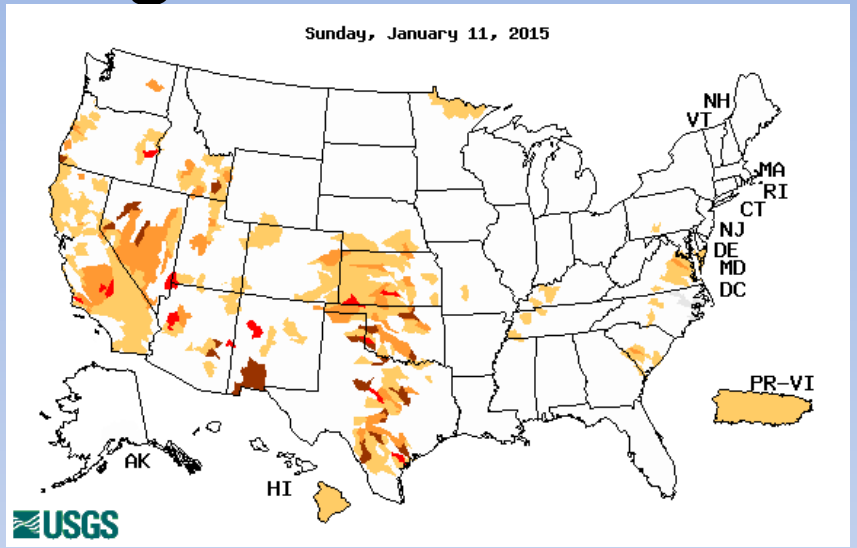


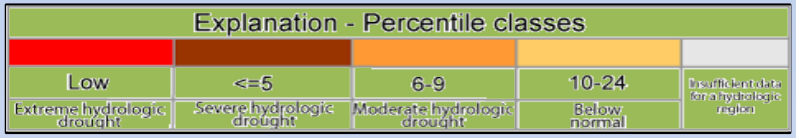
http://waterwatch.usgs.gov

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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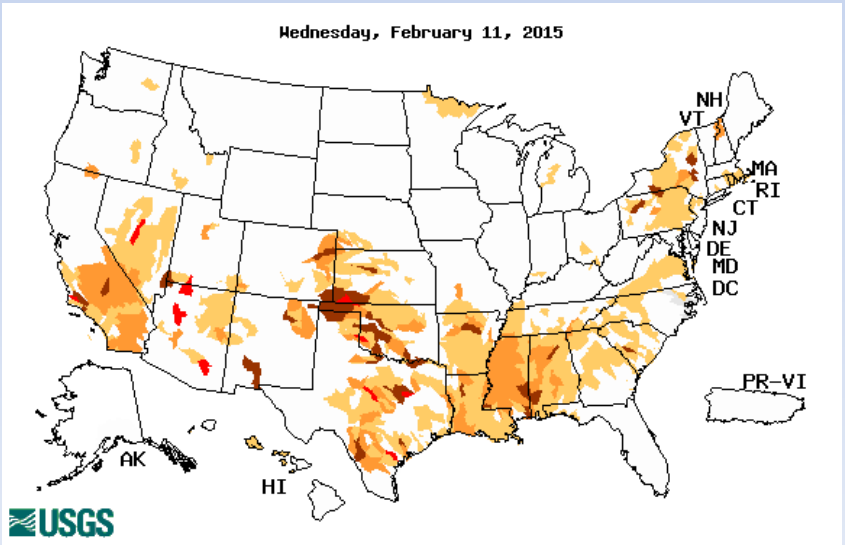
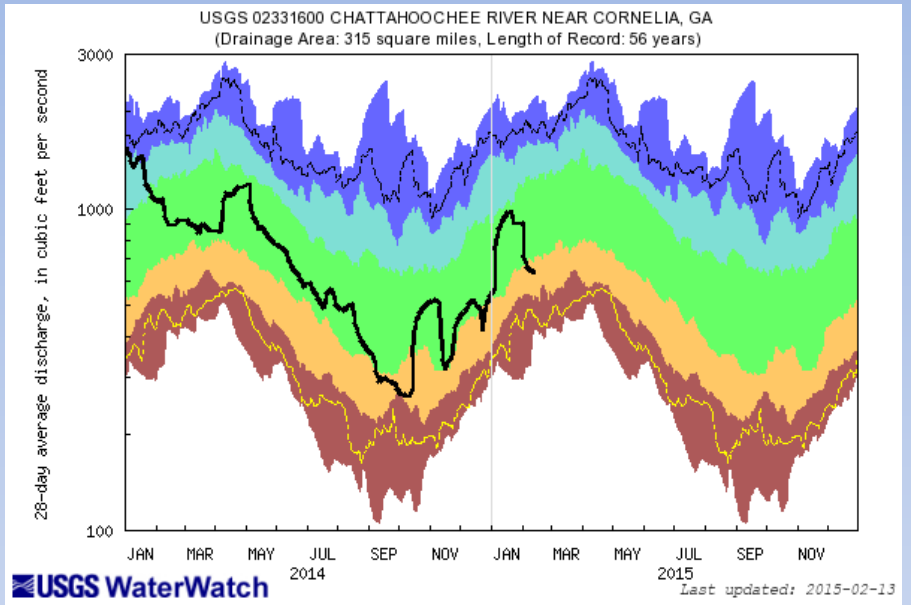


http://waterwatch.usgs.gov

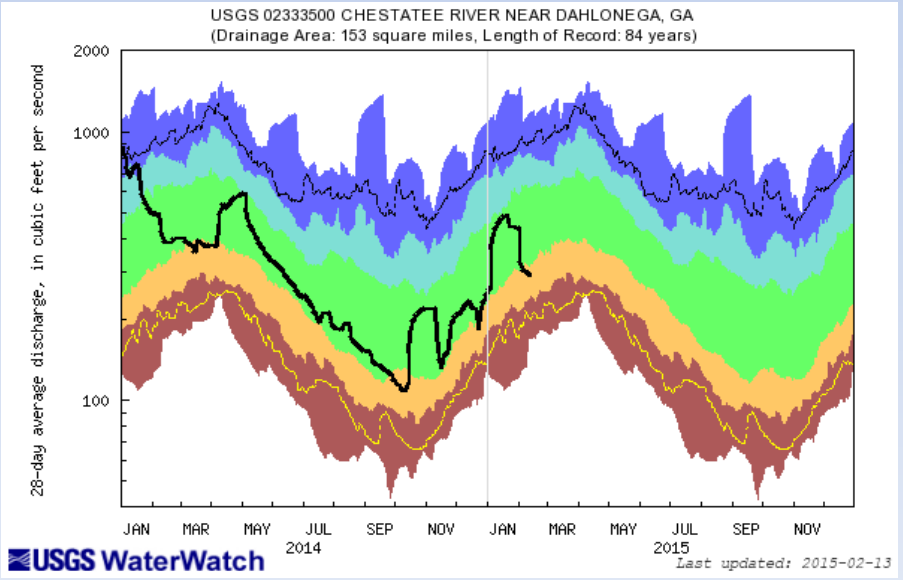
Lake Lanier Inflows

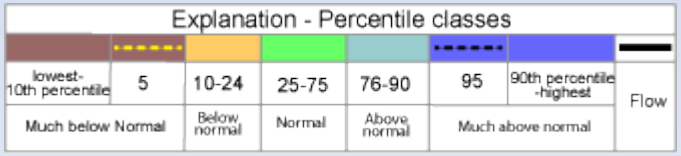
Chattahoochee near Cornelia (02331600)



http://waterwatch.usgs.gov

Chestatee near Dahlonega (02333500)



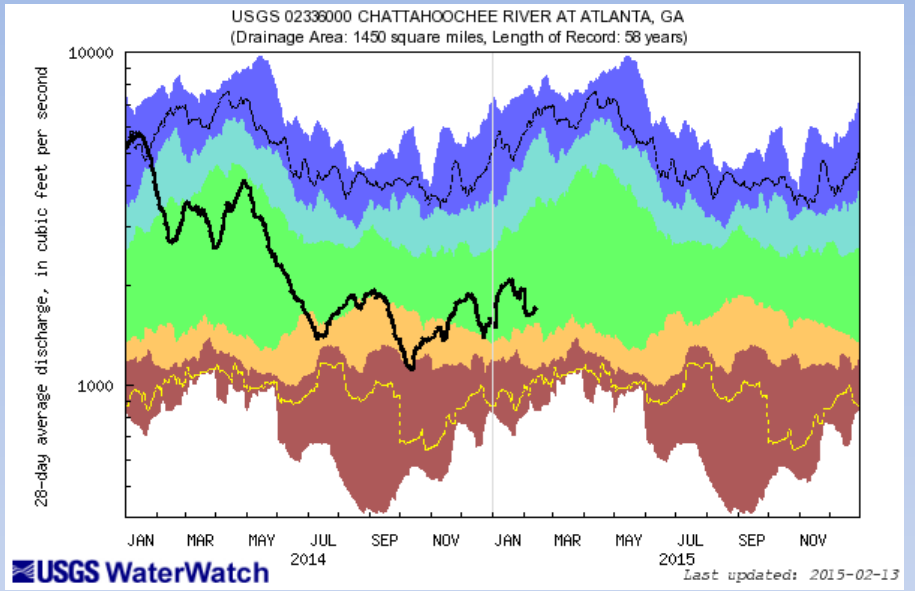


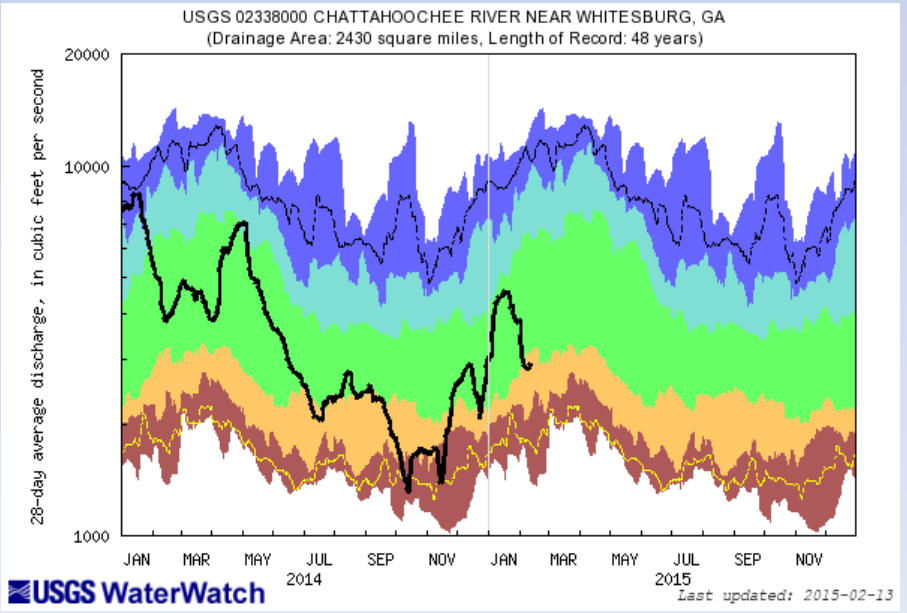
Current Streamflows

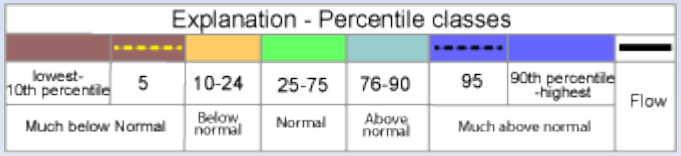
Chattahoochee at Atlanta (02336000)

http://waterwatch.usgs.gov

Chattahoochee near Whitesburg (02338000)

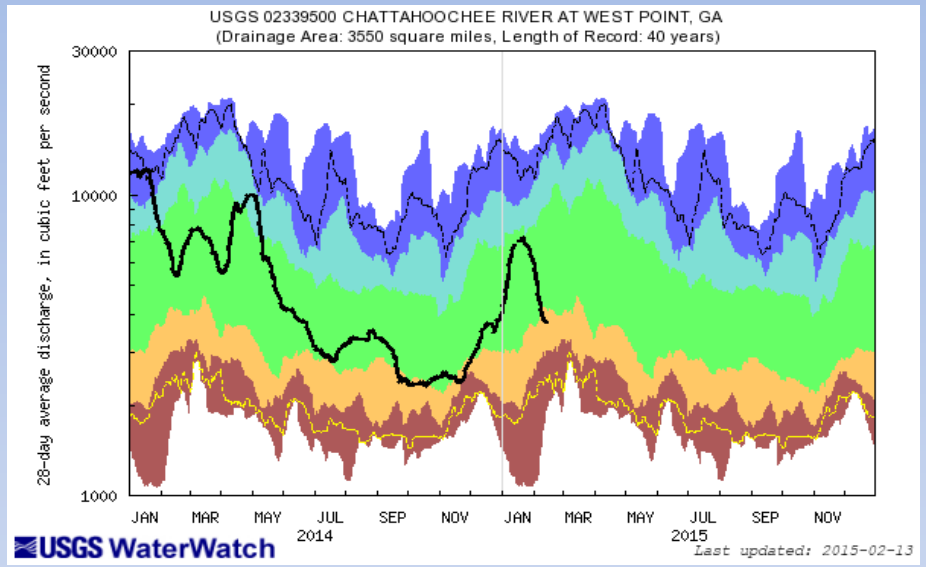






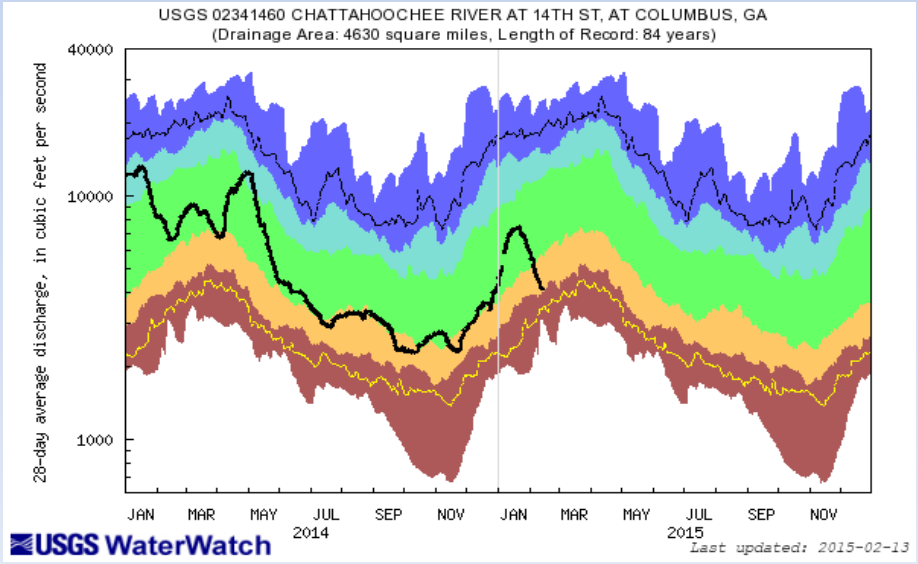
Current Streamflows

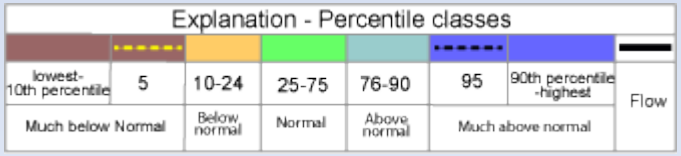
Chattahoochee at West Point (02339500)



http://waterwatch.usgs.gov

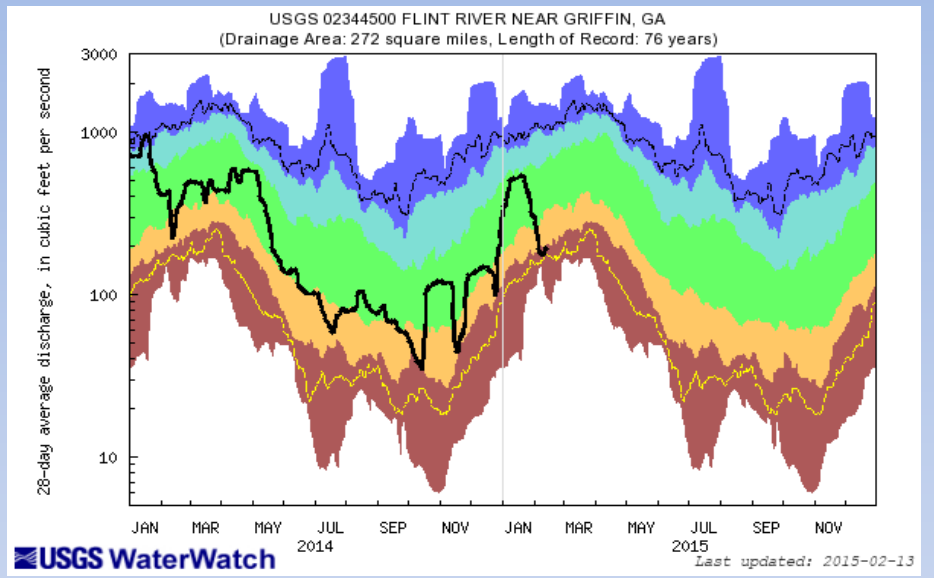
Chattahoochee at Columbus(02341460)





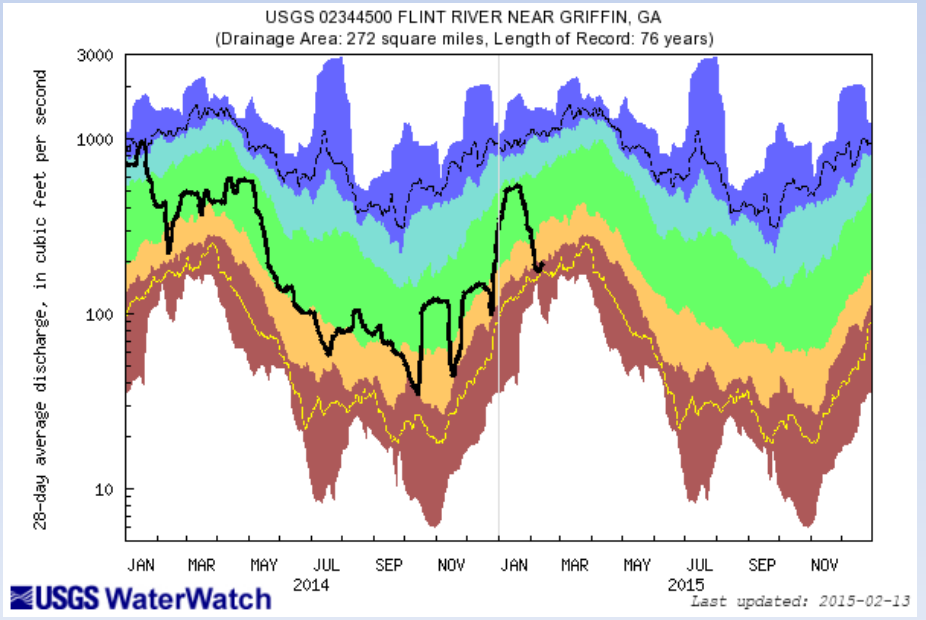
Current Streamflows

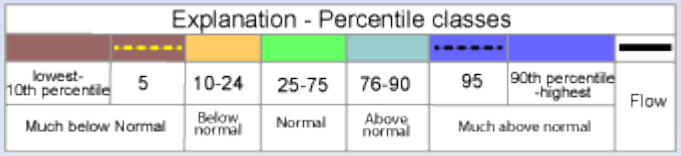
Flint River near Griffin (02344500)



http://waterwatch.usgs.gov

Flint River near Carsonville (02347500)

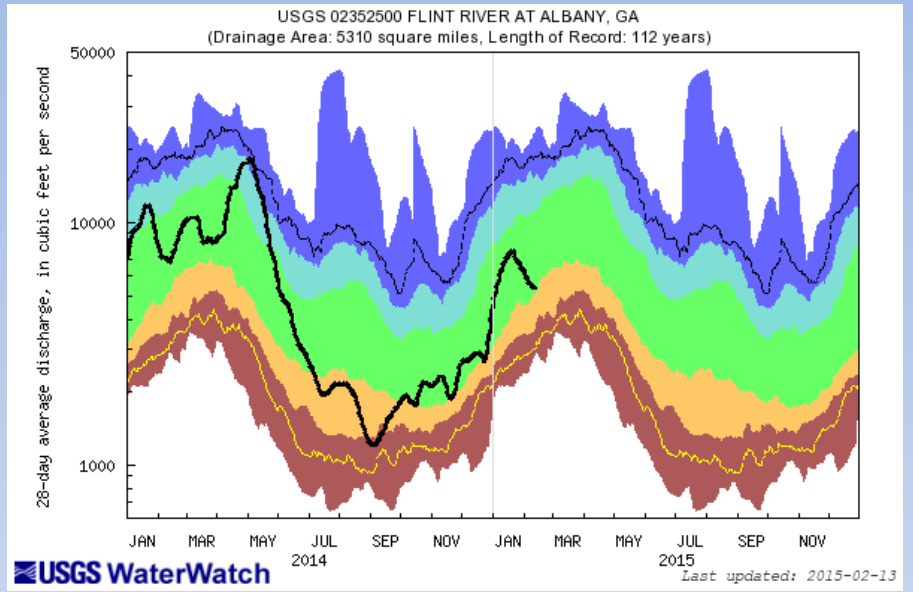




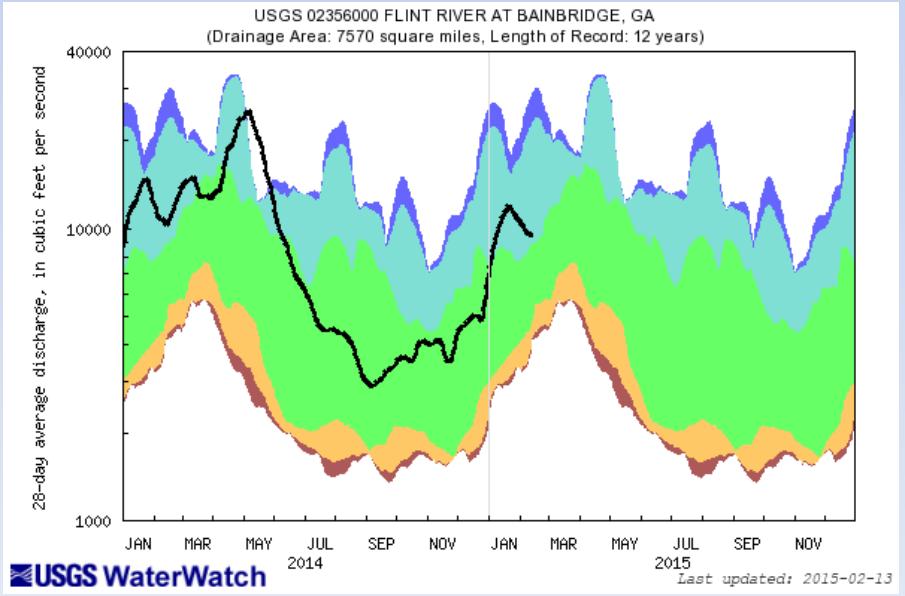
Current Streamflows

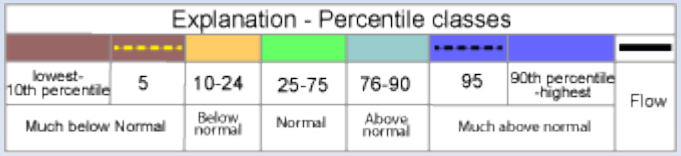
Flint River at Albany (02352500)

http://waterwatch.usgs.gov



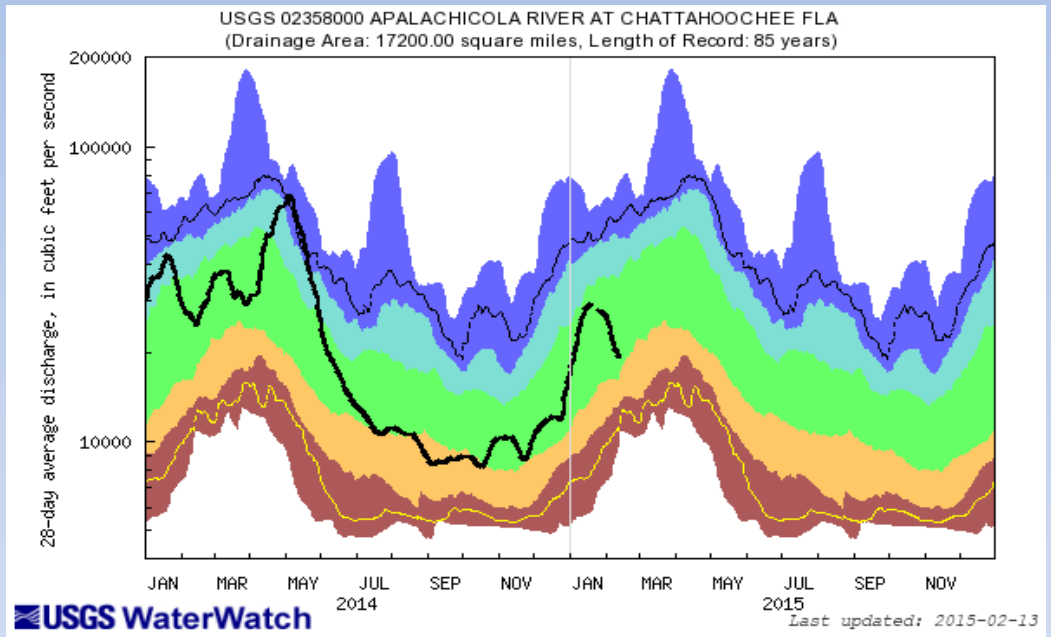
Flint at Bainbridge (02356000)

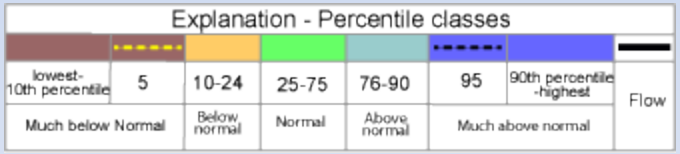




Streamflows

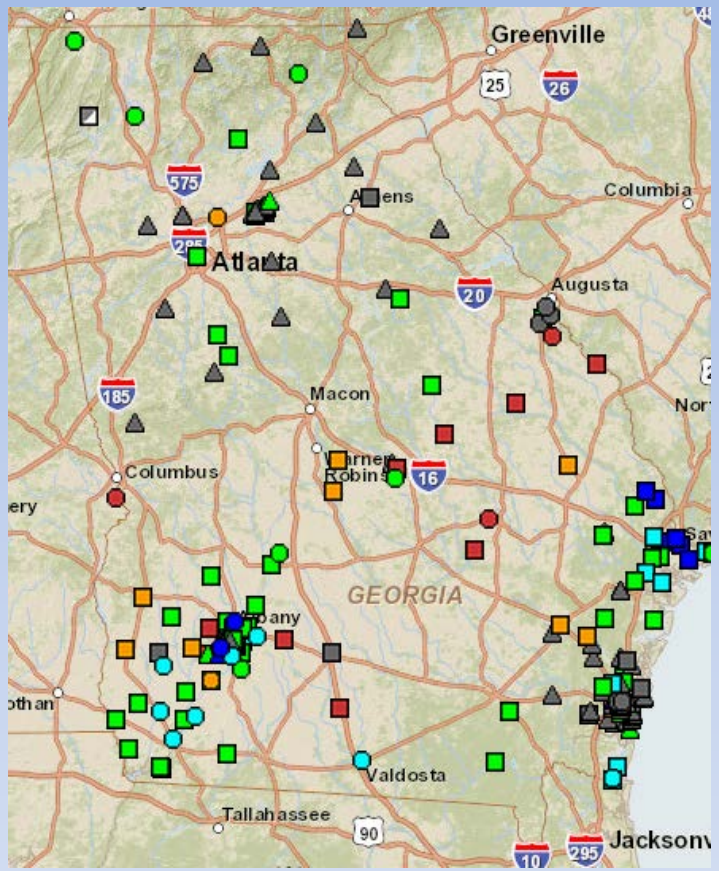
Apalachicola at Chattahoochee (02358000)



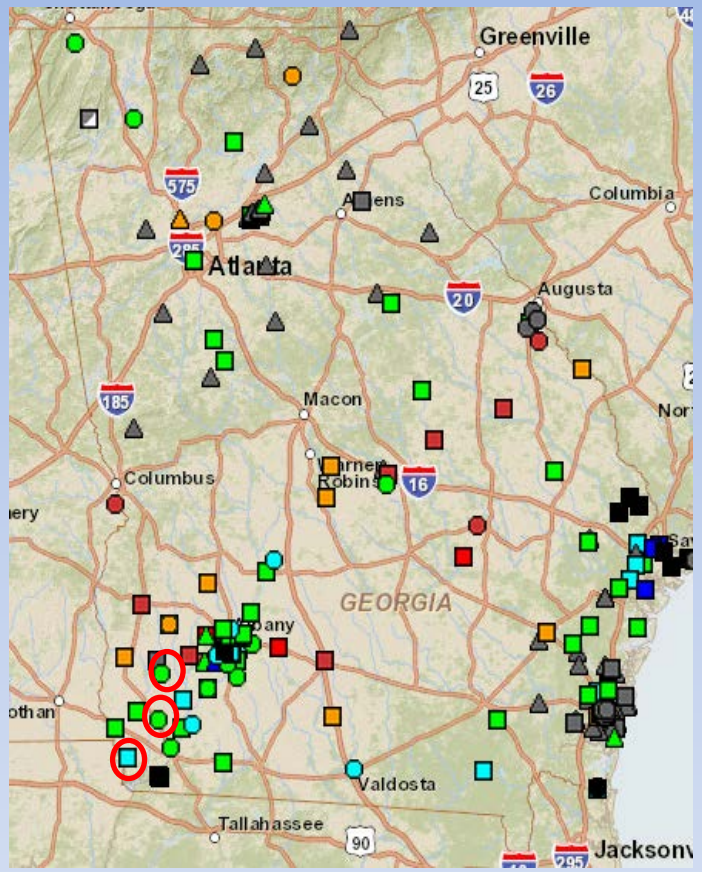


http://waterwatch.usgs.gov

Groundwater Conditions



Previous brief



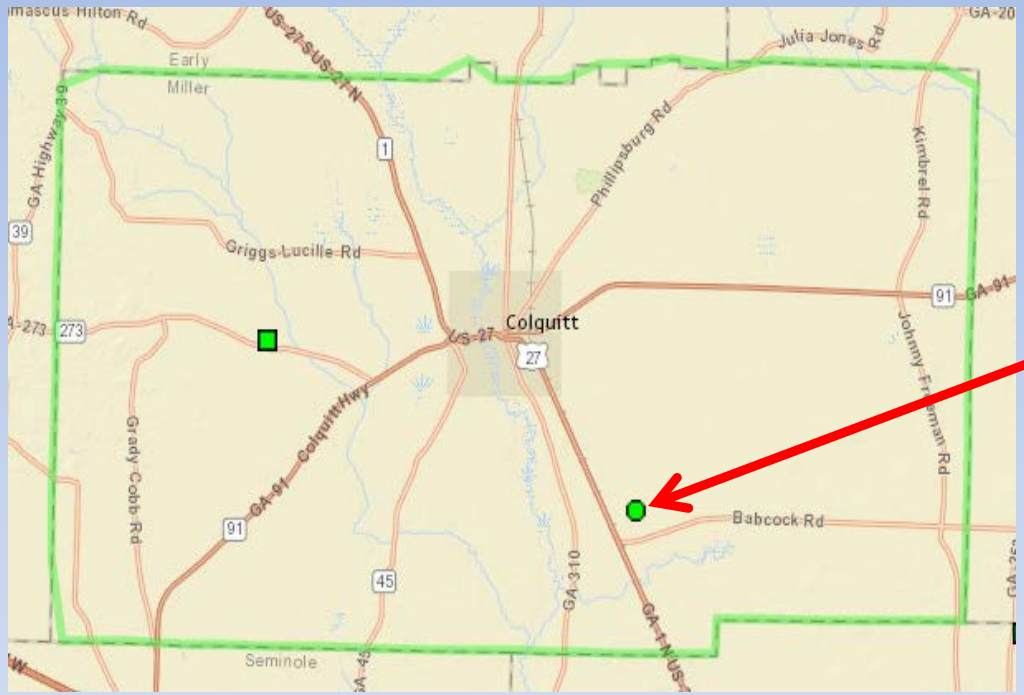
Current brief

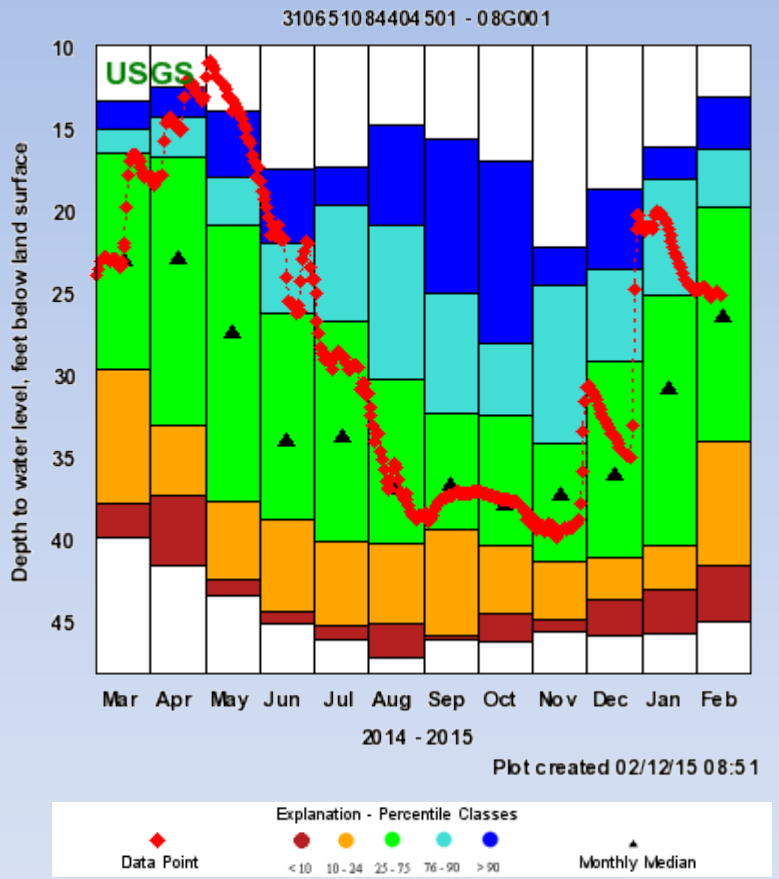
Explanation - Percentile classes (symbol color based on most recent measurement)							
Low	<10	10-24	25-75	76-90	>90	High	Not Ranked
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal		

Wells	Springs
Real-Time	
Continuous	
Periodic Measurements	

http://groundwaterwatch.usgs.gov

Groundwater Status – Miller County 08G001



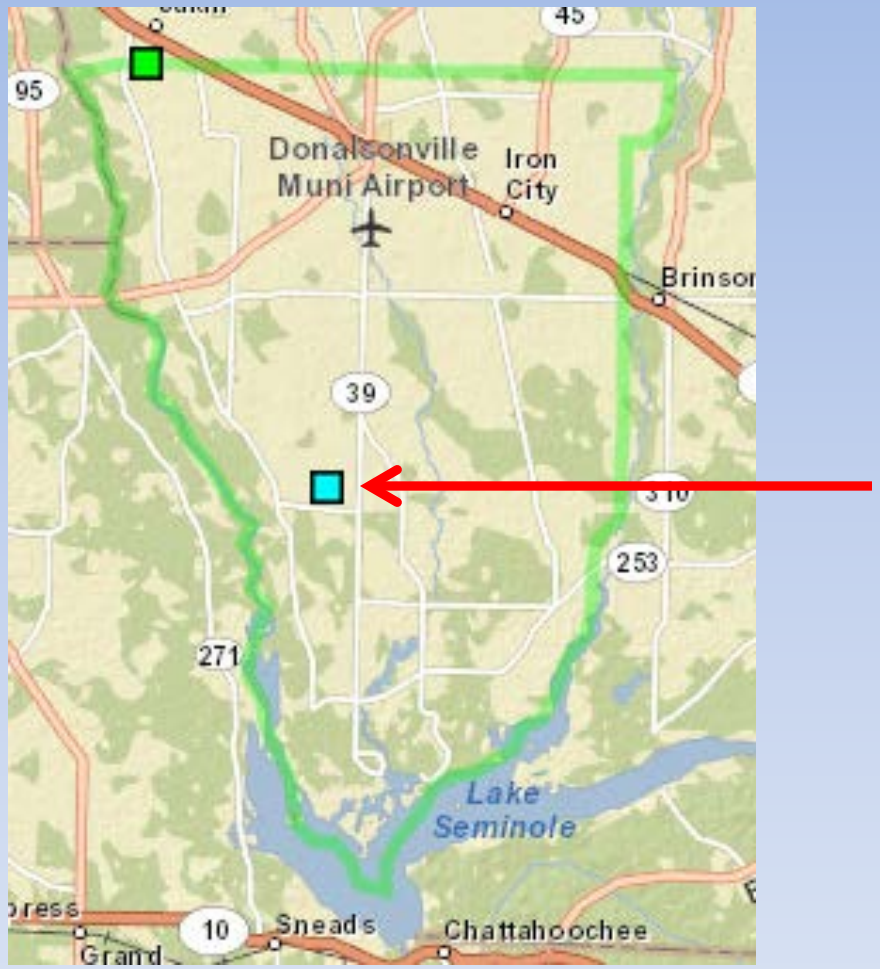


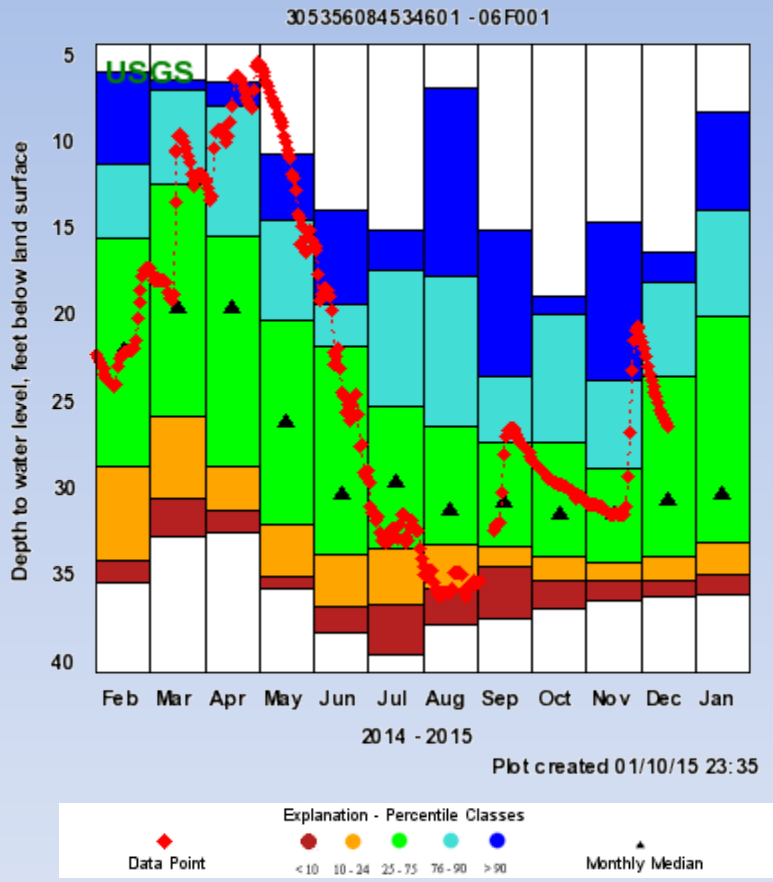
Explanation - Percentile classes (symbol color based on most recent measurement)							
Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	High	Not Ranked

Wells / Springs
Real-Time
Continuous
Periodic Measurements

(Upper Floridan Aquifer)

Groundwater Status – Seminole County 06F001



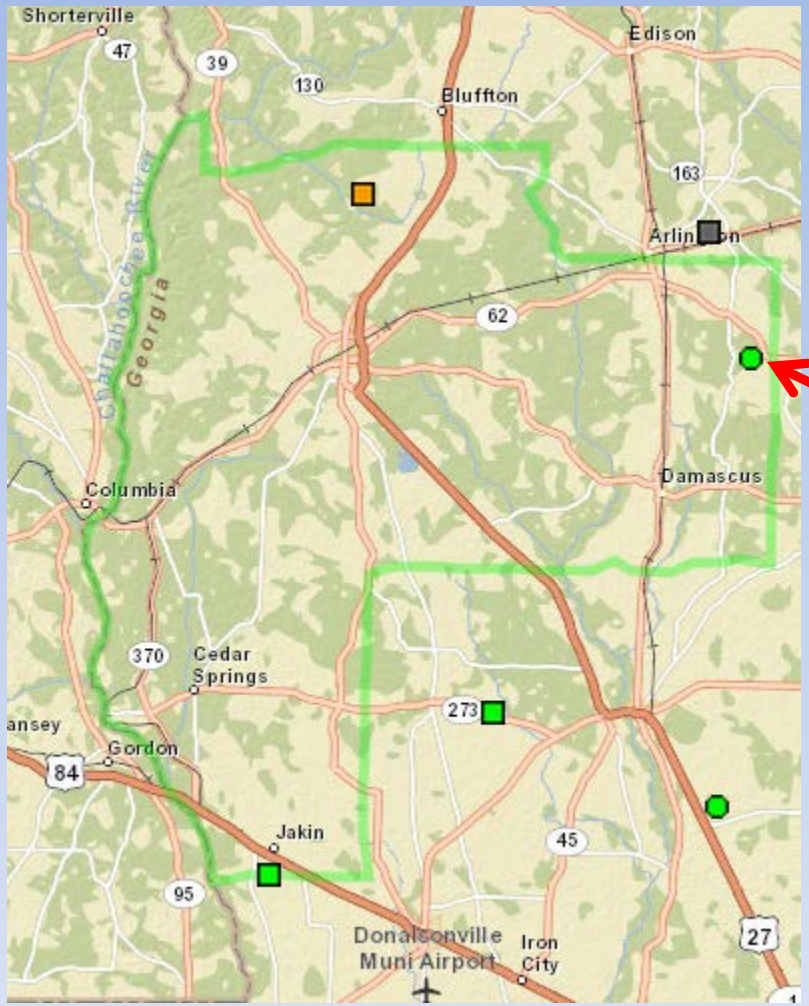


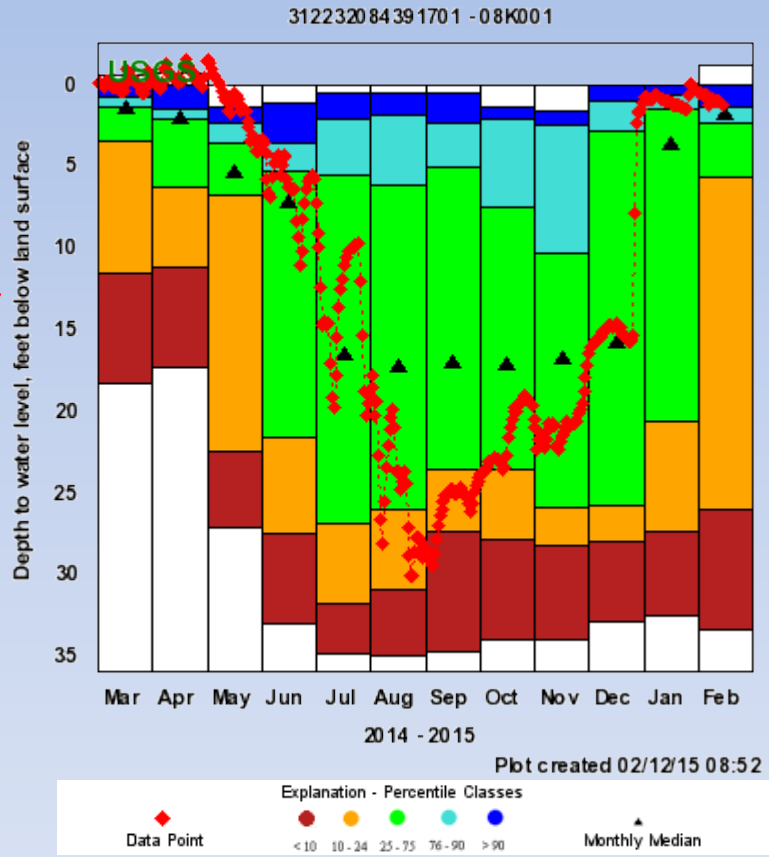
Explanation - Percentile classes (symbol color based on most recent measurement)							
Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	High	Not Ranked

Wells	Springs
Real-Time	
Continuous	
Periodic Measurements	

(Upper Floridan Aquifer)

Groundwater Status – Early County 08K001





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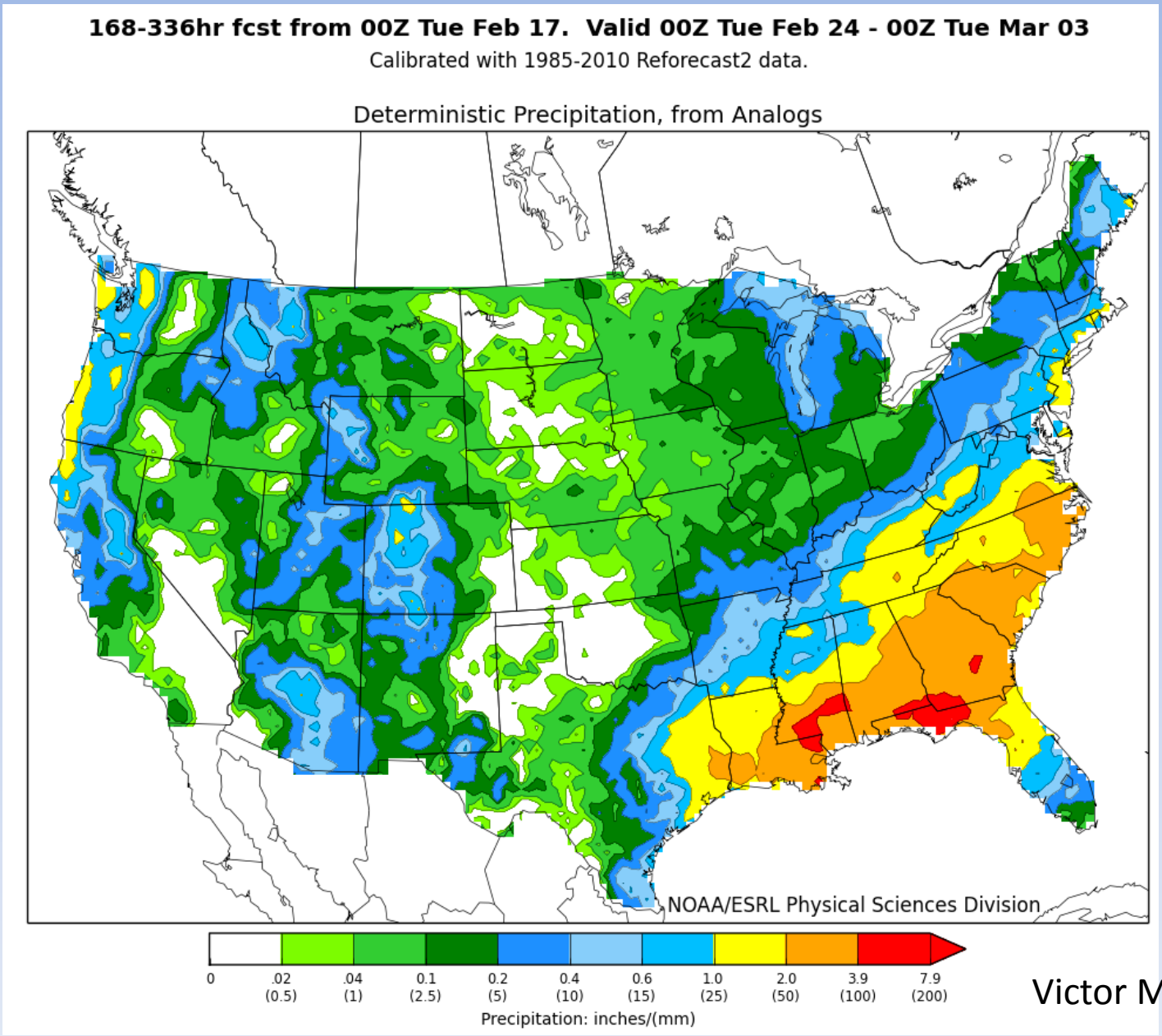
Wells	Springs
Real-Time	
Continuous	
Periodic Measurements	

(Upper Floridan Aquifer)

Summary-Tony Gotvald

- Realtime streamflows are in the normal to below normal range for most of the ACF basin.
- Inflows into Lake Lanier are in the below normal range for the 28-day average flows.
- Streamflows are in the below normal range throughout the upper Flint River basin and in the normal range in the lower Flint River basin for the 28-day average flows.
- Groundwater levels are in the normal to above normal range in Southwest Georgia.

Deterministic Precipitation



Victor Murphy, NOAA

Deterministic Precipitation

The previous slide is an experimental product from the NOAA Earth Systems Resource Lab (ESRL), showing the deterministic week 2 QPF.

As you can see, the 2-week time period from 2/24 to 3/3 is forecast to be very wet for the entire ACF Basin, with widespread 2"-4" totals and localized amounts in the 4"-8" range around Lake Seminole and the FL portion of the basin.

Based on this, I'm confident that in 2 to 3 weeks, all drought conditions currently in GA will be removed, and the danger of short term drought through March will be minimal to near zero.

Questions, Comments, Discussion

References

Speakers

Tony Gotvald, USGS

(other presenters were unable to attend due to winter storm conditions)

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

March 17, 2015, 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