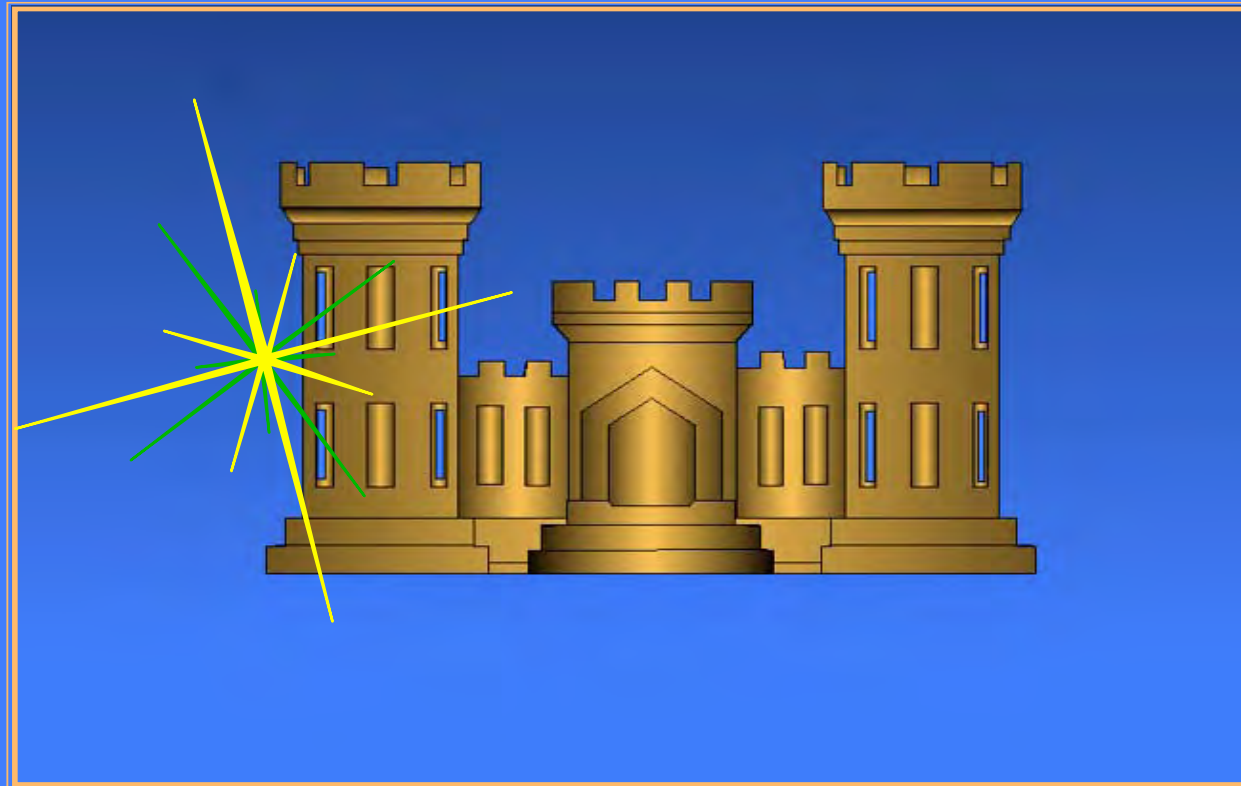
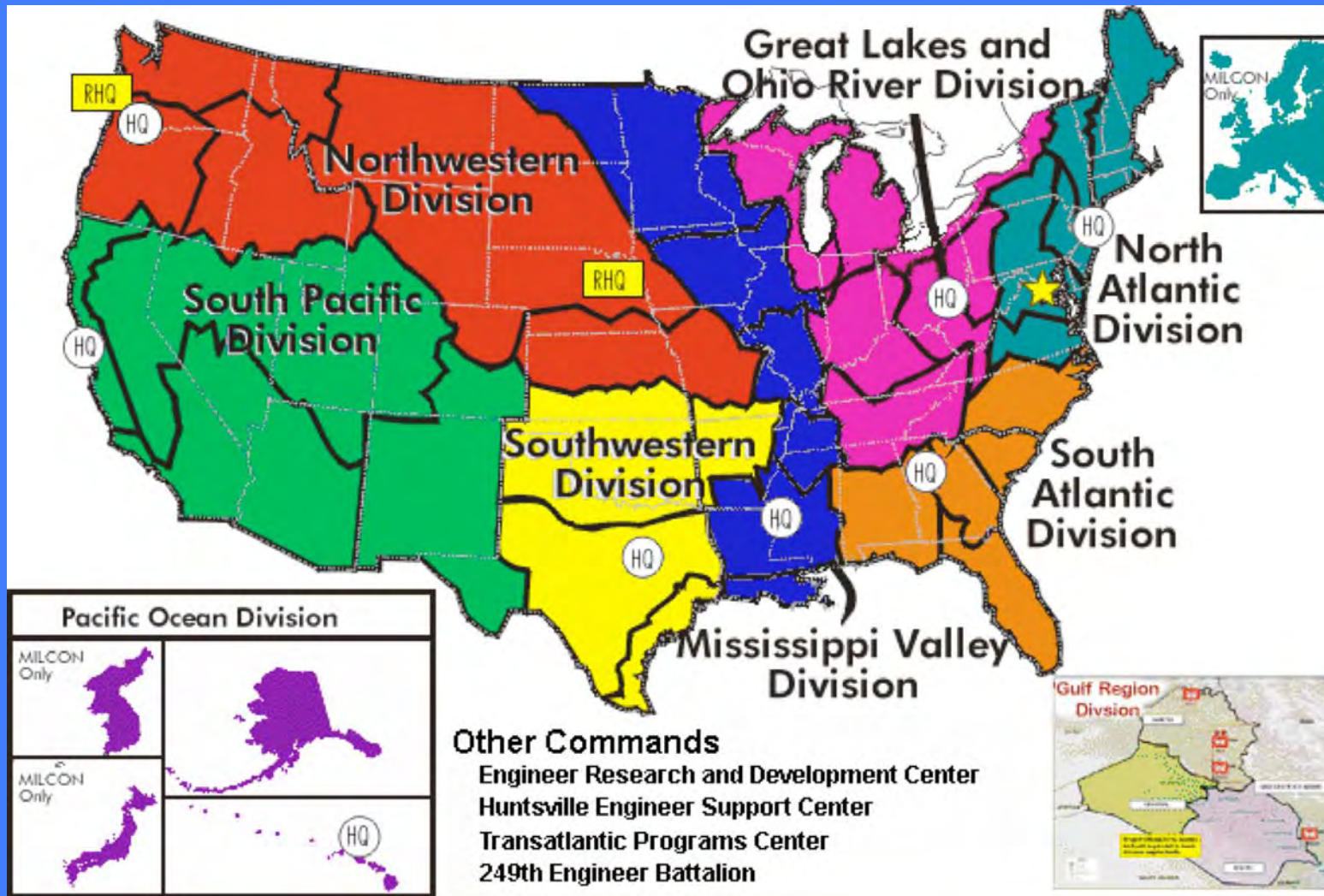


CORPS OF ENGINEERS

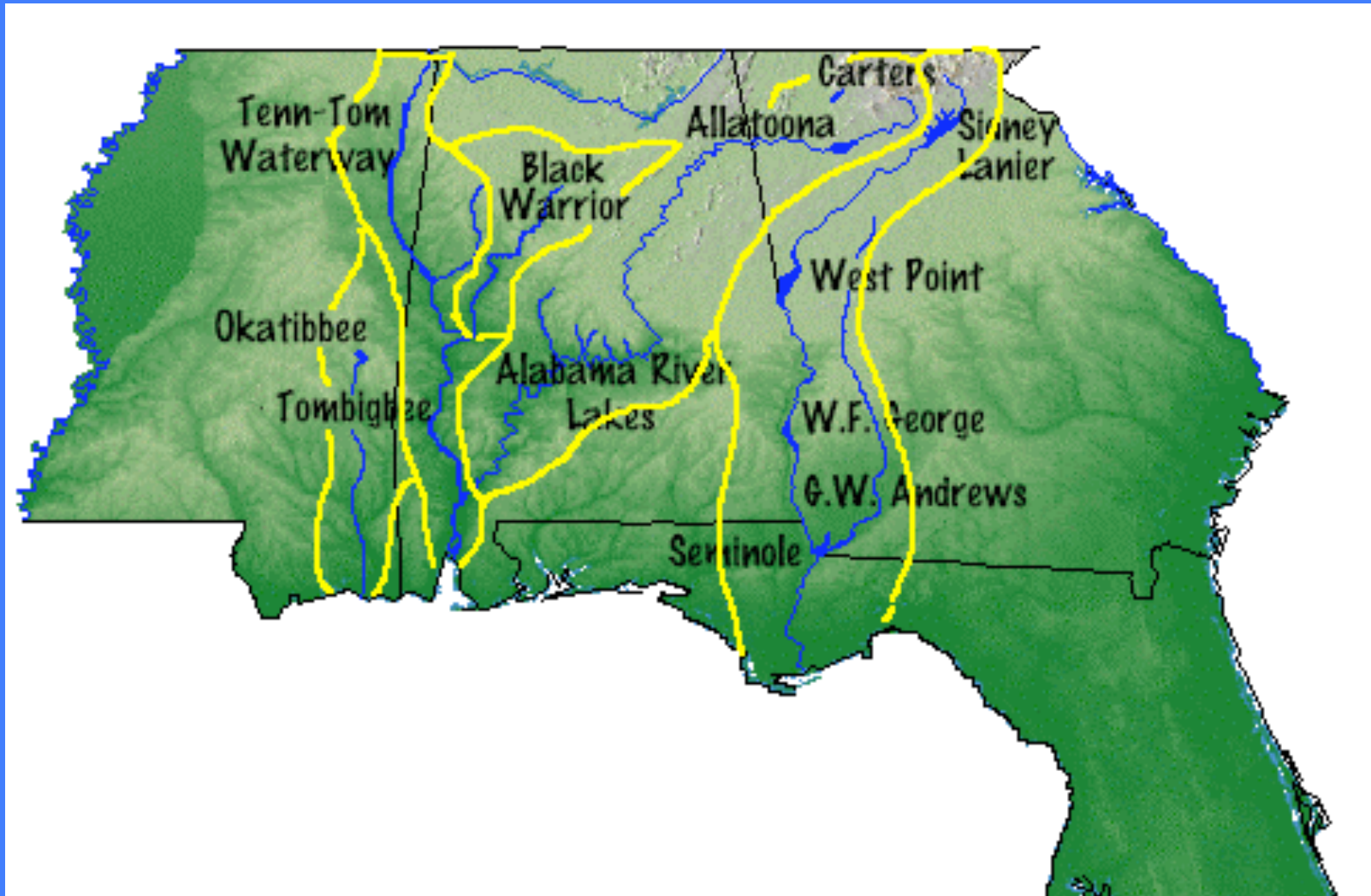


Water Resource Activities in the ACF Basin
May 18, 2007





Mobile District River Basins



Water Management Staff

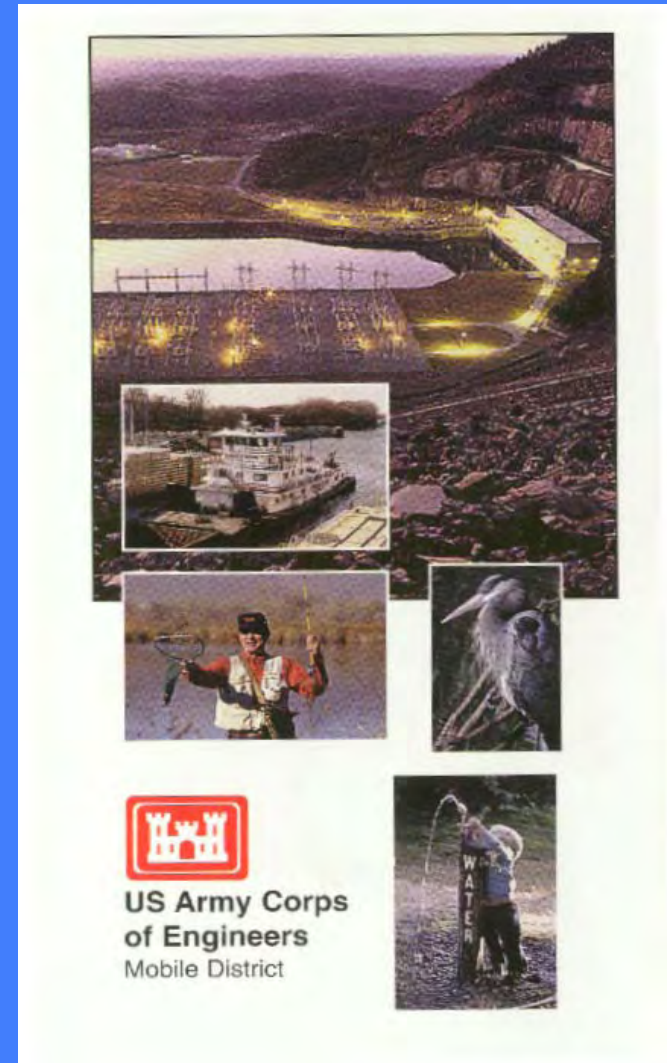
- ◆ Supervisory Hydraulic Engineer
- ◆ 4 Hydraulic Engineers
- ◆ 1 Engineer/Co-op (Vacant)
- ◆ 1 Hydrologist
- ◆ 1 Meteorologist
- ◆ 3 Hydrologic Technicians

Office staffed 365 days/year (limited hours on weekends)



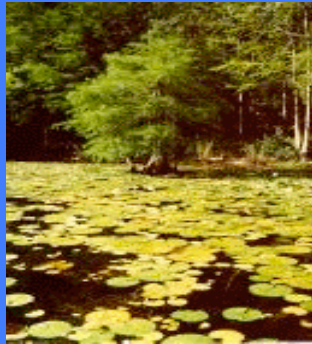
Water Management Activities

- ◆ Conduct water management activities for Corps reservoirs
- ◆ Supervise flood control
- ◆ Technical assistance and information to District elements
- ◆ Exchange data with National Weather Service & other agencies
- ◆ Operation of rainfall and river reporting network
- ◆ Maintain hydrologic data
- ◆ Preparation/revision of water control manuals
- ◆ Develop hydrologic models



Water Management

Environmental/
Water Quality



Flood
Damage
Reduction



Hydropower



Recreation

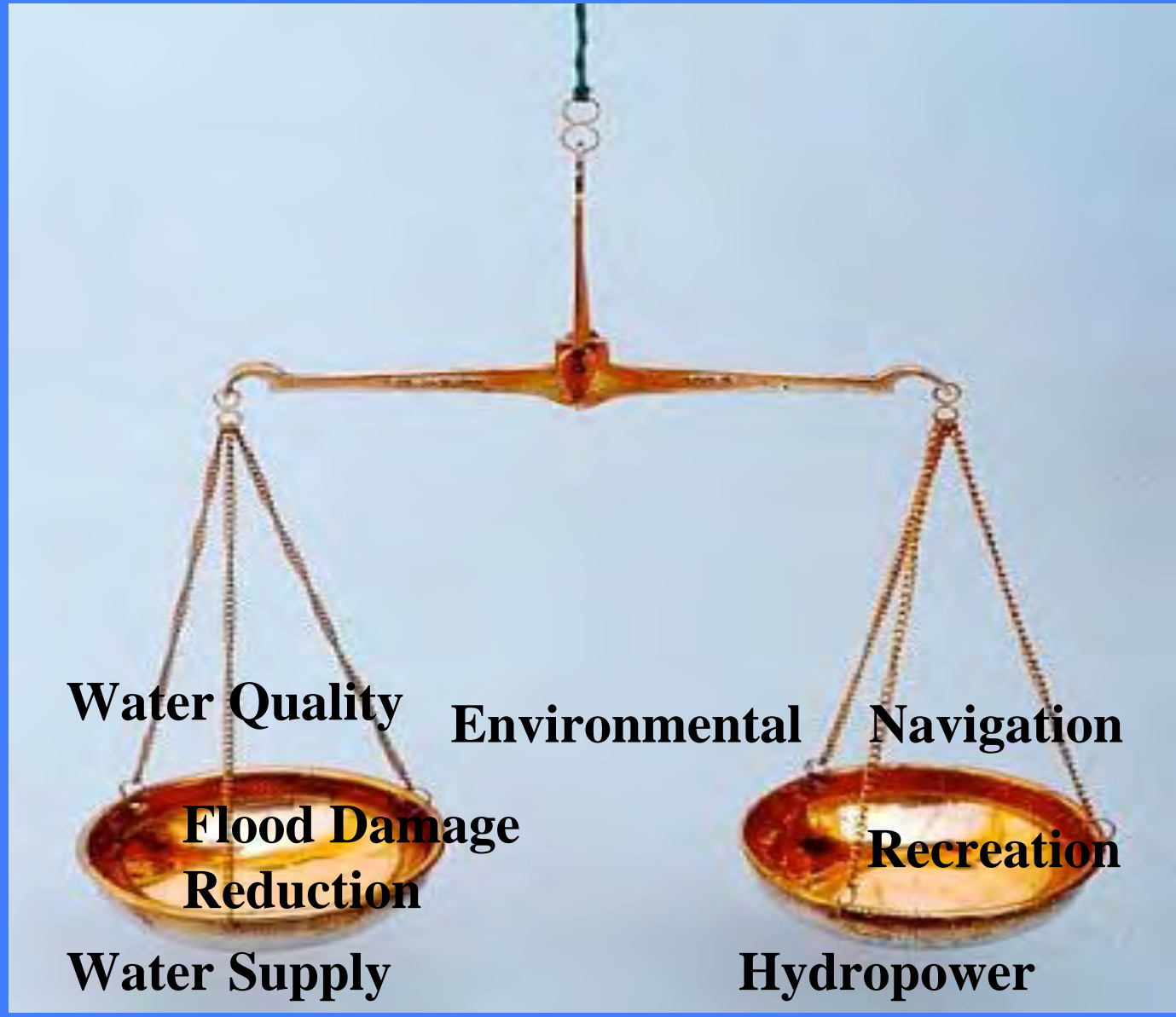


Water Supply

Navigation



WATER MANAGEMENT



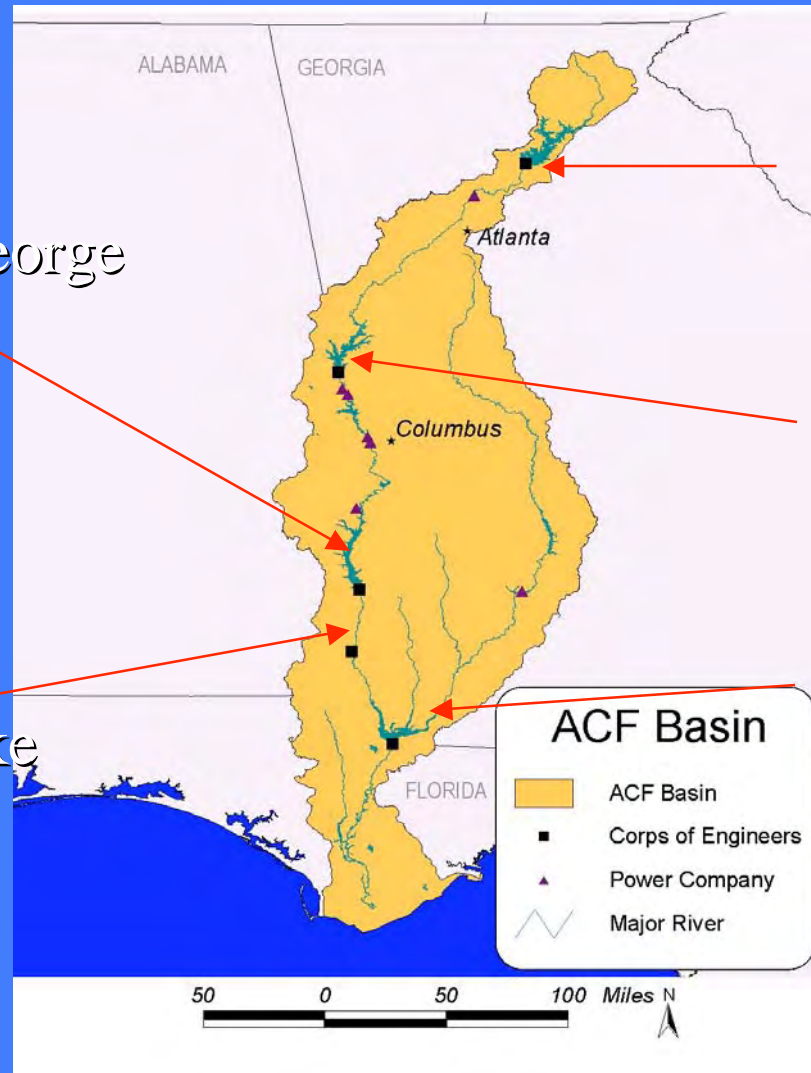
ACF River System

Walter F. George Lake

Hydroelectric Power
Navigation
Recreation
Fish/Wildlife
Water Quality

George W. Andrews Lake

Navigation
Water Quality
Recreation



Lake Sidney Lanier

Hydroelectric Power
Recreation
Water Supply
Water Quality
Navigation
Flood Control
Fish/Wildlife

West Point Lake

Flood Control
Fish/Wildlife
Hydroelectric Power
Recreation
Navigation
Water Quality

Lake Seminole

Hydroelectric Power
Recreation
Water Quality
Navigation
Fish/Wildlife



ACT River System

APC Weiss Dam

Flood Control

APC

Logan Martin Dam

Flood Control

APC Jordan Dam

Flood Control

R.F. Henry

Hydroelectric Power
Navigation
Recreation
Fish/Wildlife
Water Quality

Millers Ferry

Hydroelectric Power
Navigation
Recreation
Fish/Wildlife
Water Quality

Carters Lake

Recreation
Flood Control
Navigation
Fish/Wildlife
Water Quality
Hydroelectric Power
Water Supply

Lake Allatoona

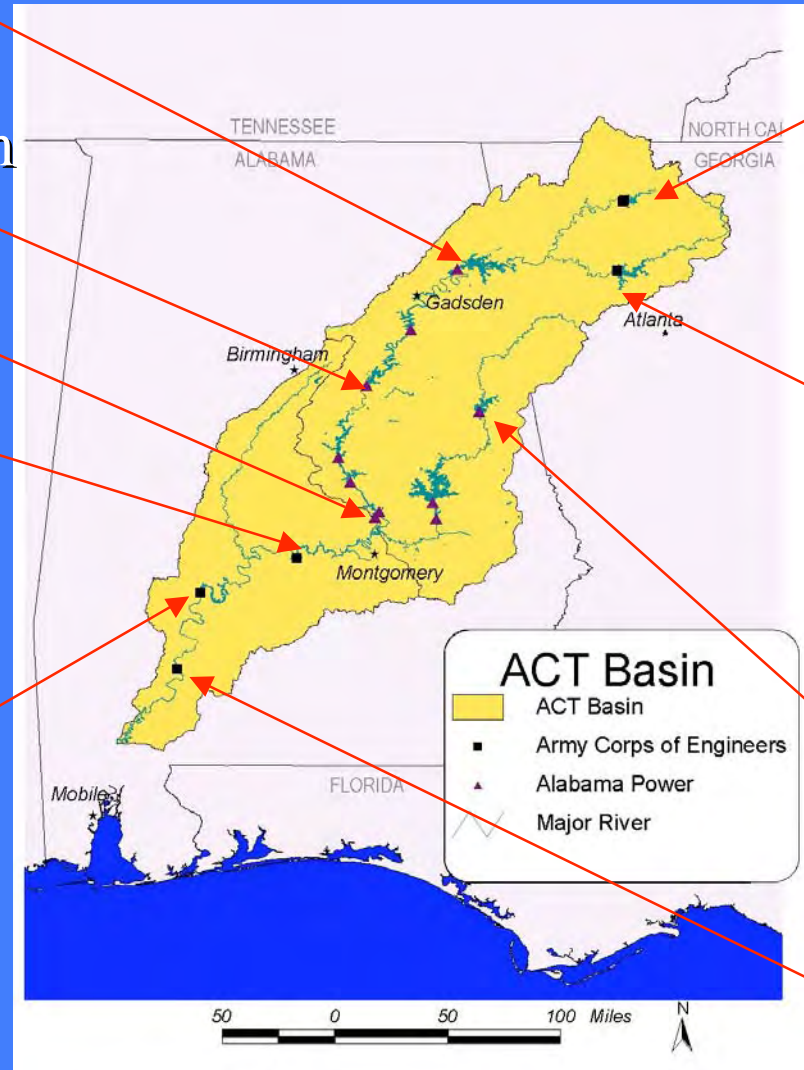
Hydroelectric Power
Navigation
Recreation
Flood Control
Water Supply
Fish/Wildlife
Water Quality

APC Harris Dam

Flood Control

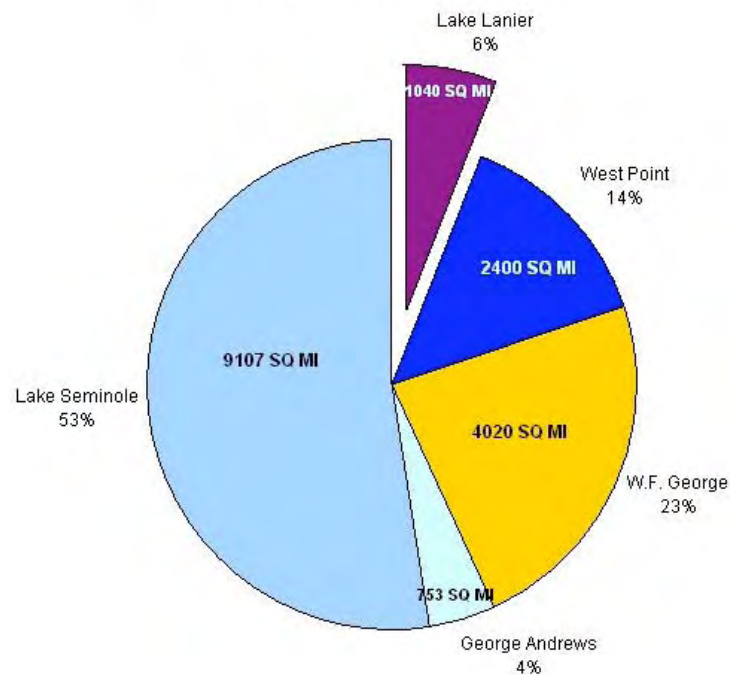
Claiborne

Navigation Recreation
Fish/Wildlife
Water Quality

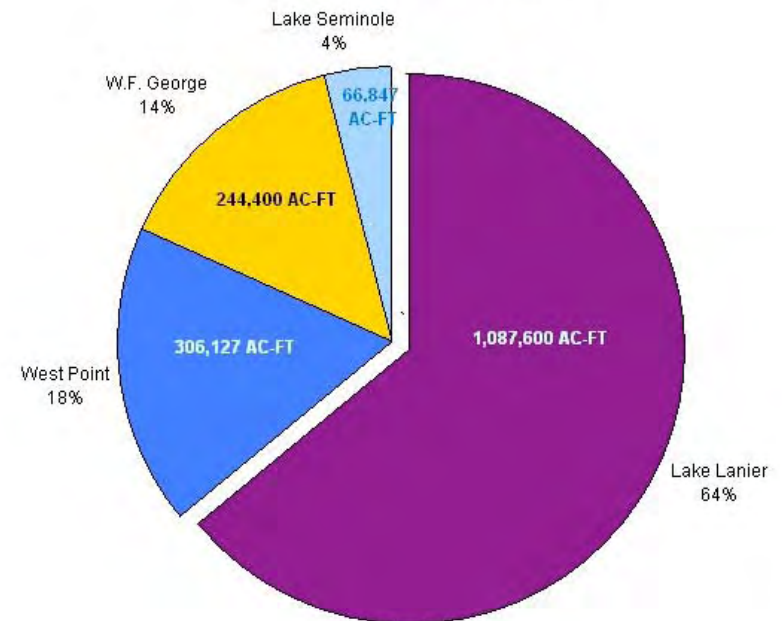


ACF Drainage Area and Storage Comparison

ACF Drainage Basin Area by Project



ACF Storage Volume by Project



Data Exchange Between Agencies

National Weather Service (NWS)
South East River Forecast Center (SERFC)
Southeastern Power Administration (SEPA)
Atlanta Regional Commission (ARC)
State & County Emergency Management Offices
U.S. Geological Survey (USGS)
Power Companies



Data Collection/ Dissemination

- ◆ Data collected from stream and rainfall gages and dams daily, hourly via GOES satellite
- ◆ Rainfall and forecast data received from NWS
- ◆ Project and gage data sent to other agencies
- ◆ Data posted to Water Management's web page
- ◆ Weekly newsletter via e-mail & web
- ◆ Other data and information provided to public via interactive voicemail, e-mail, fax, and phone



Data Collection Process

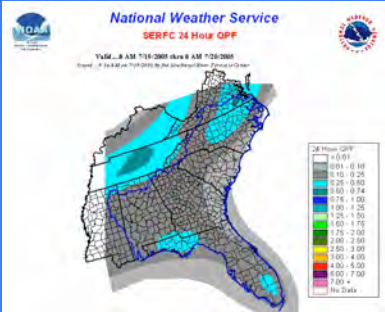
Stream & Rainfall Gages
(Hourly & 15 Minutes)



Project Data via computer and FTP
(Daily and Hourly)



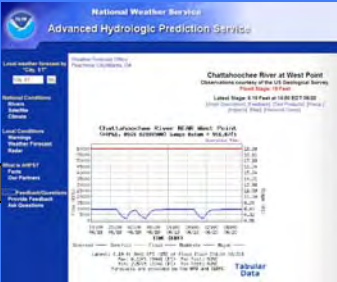
Rainfall Forecast
(Daily)



GOES Satellite
(Hourly & 15 Minutes)



Water Management Section



Stage Forecast (Daily)



Other Utilities Withdrawal Info
(Monthly Reports)



ARC Release Request
(Weekly via e-mail)

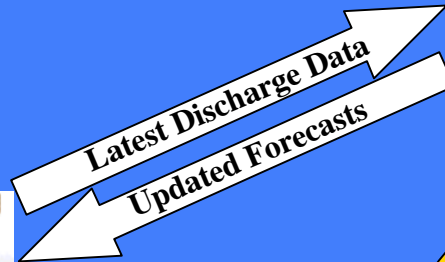
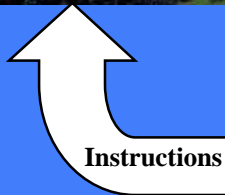


Data Dissemination/Data Exchange Process

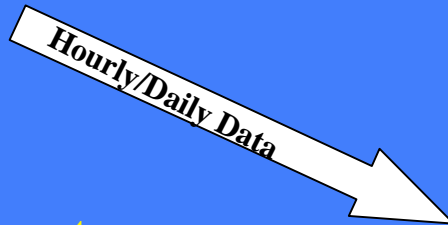
Dam Operator



River Forecast Center



**EMA's
Project Offices
South Atlantic Div
District EOC & Executive Office
Public Affairs
Power Companies**



**Water Management
Section**



Water Management Web Page



Water Management Data Collection Process



Streamgages



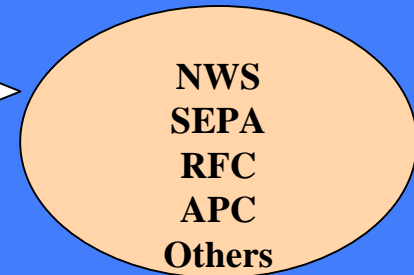
Goes Satellite



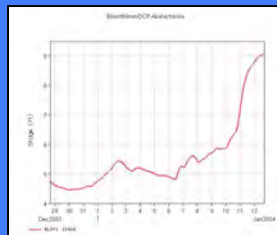
Project Data via computer



Water Mgt
Models and
Database



Graphics Files,
Tables, & Other
Products

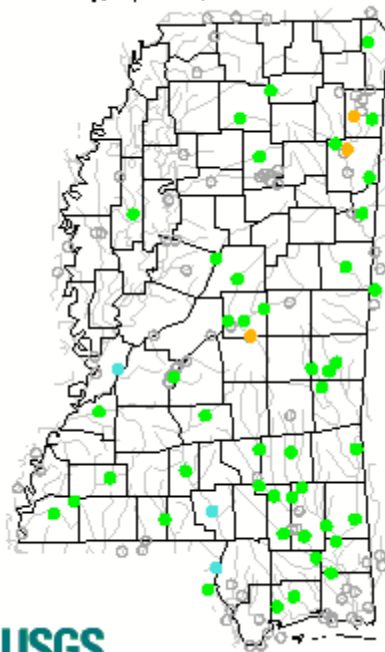


Web Page

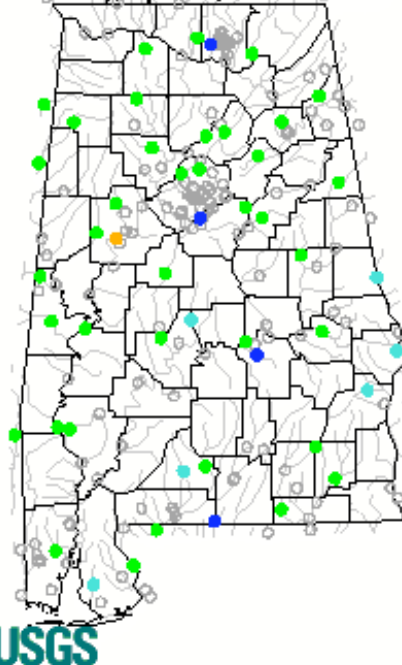


U.S.G.S Gages

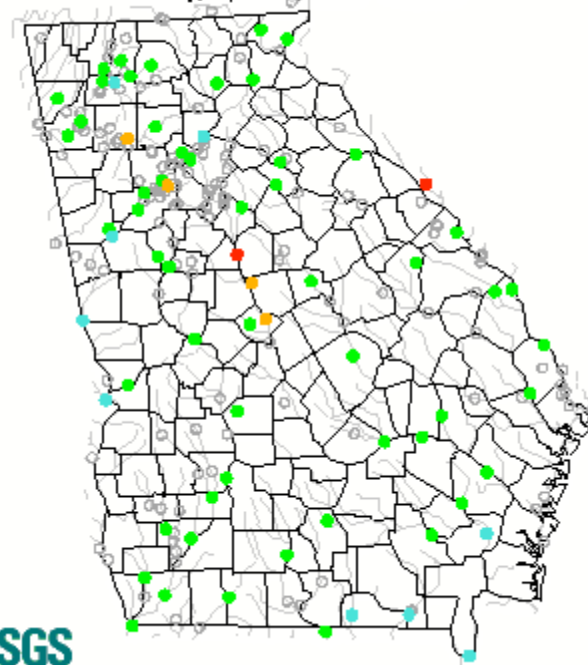
Friday, April 22, 2005 14:20ET



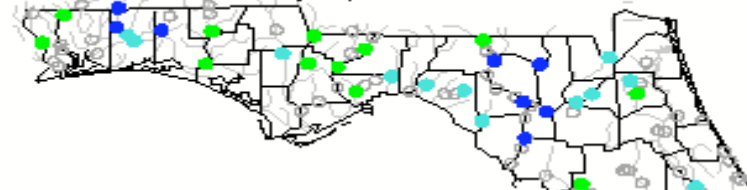
Friday, April 22, 2005 14:20ET



Friday, April 22, 2005 14:20ET



Friday, April 22, 2005 14:20ET



NWS Rainfall Information

Quantitative Precipitation Forecast



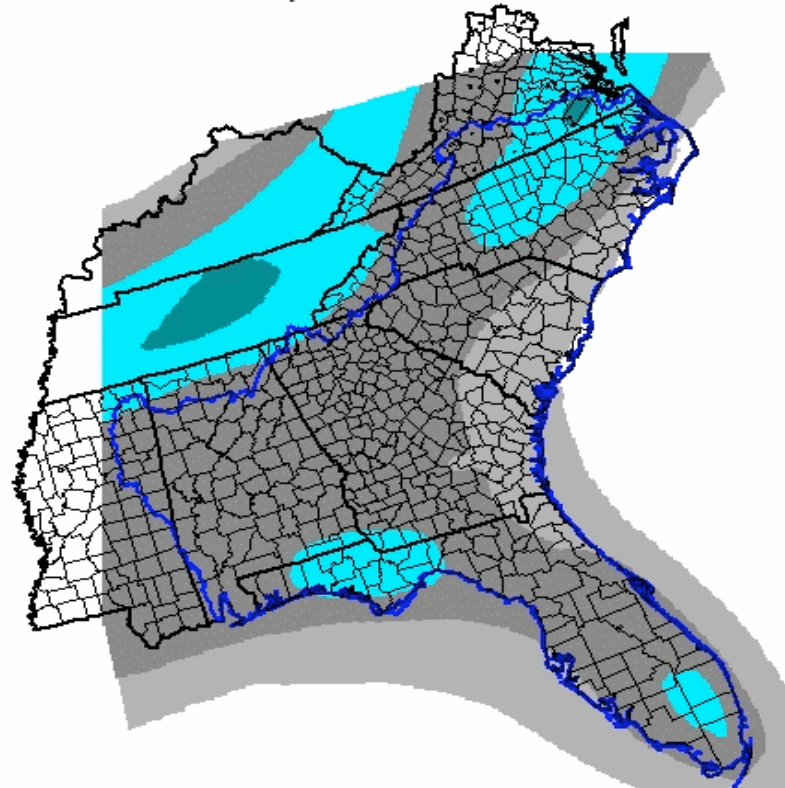
National Weather Service

SERFC 24 Hour QPF



Valid...8 AM 7/19/2005 thru 8 AM 7/20/2005

Issued...9:16 AM on 7/19/2005 by the Southeast River Forecast Center

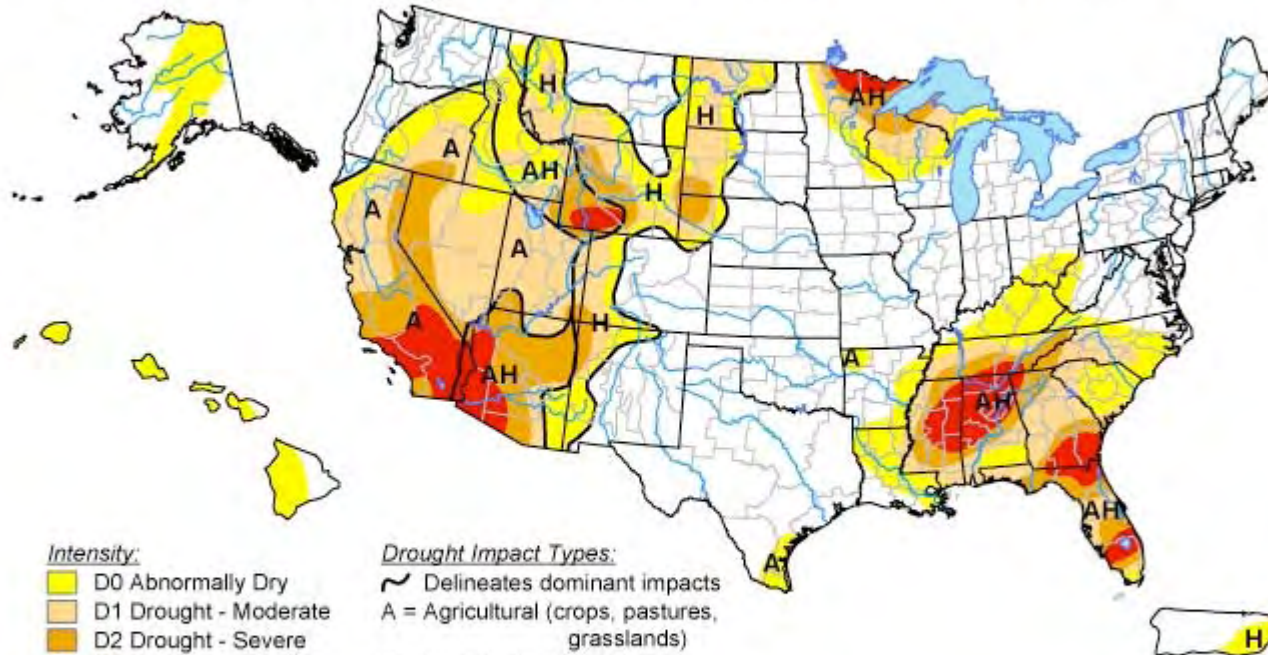


24 Hour QPF	
	< 0.01
	0.01 - 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 0.74
	0.75 - 1.00
	1.00 - 1.25
	1.25 - 1.50
	1.50 - 1.75
	1.75 - 2.00
	2.00 - 2.50
	2.50 - 3.00
	3.00 - 4.00
	4.00 - 5.00
	5.00 - 7.00
	7.00 +
	No Data








U.S. Drought Monitor


May 15, 2007
Valid 8 a.m. EDT



Intensity:

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

Drought Impact Types:

-  Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)

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



Released Thursday, May 17, 2007

Author: Mark Svoboda, National Drought Mitigation Center

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

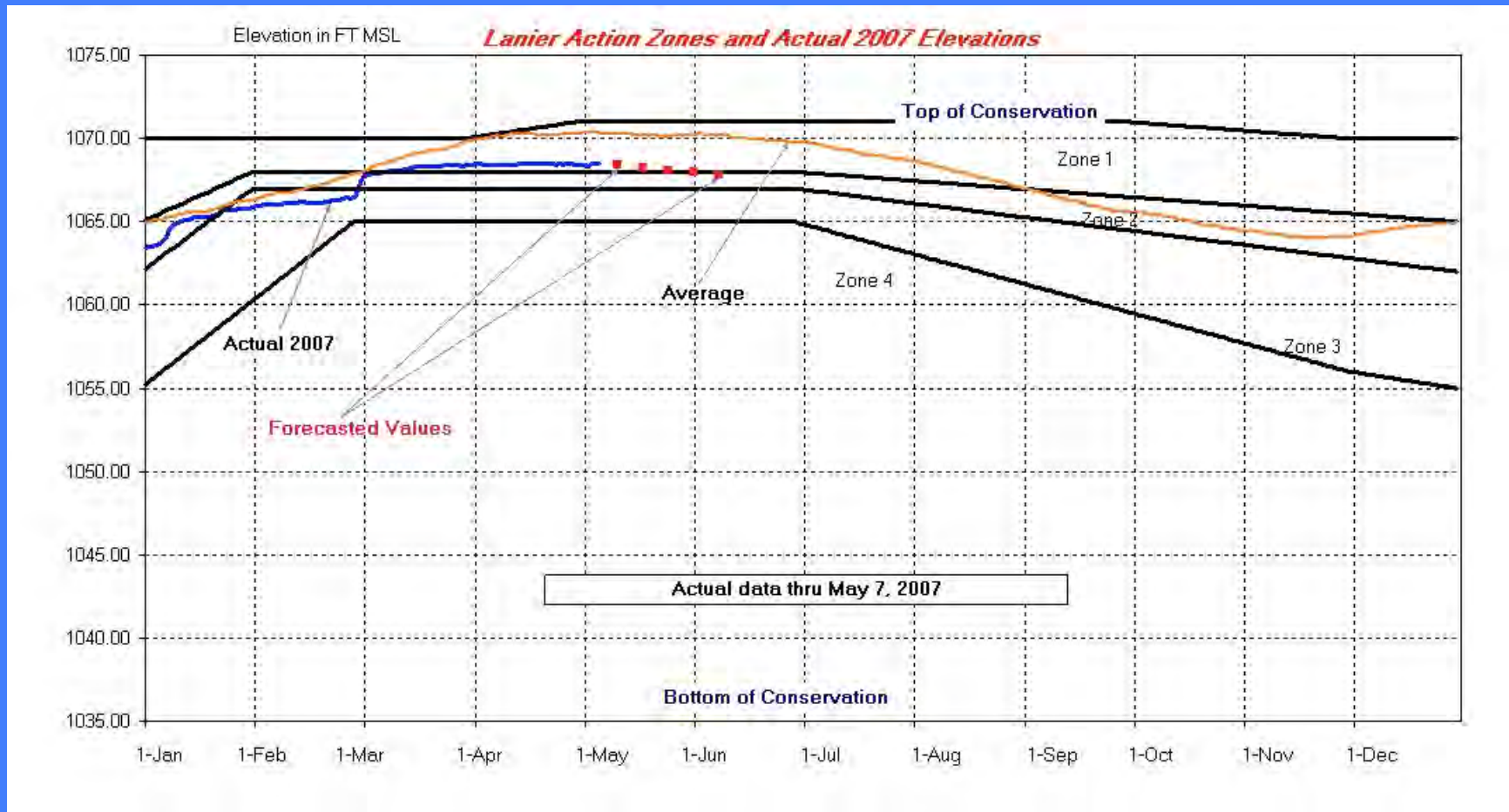


Water Control Plans

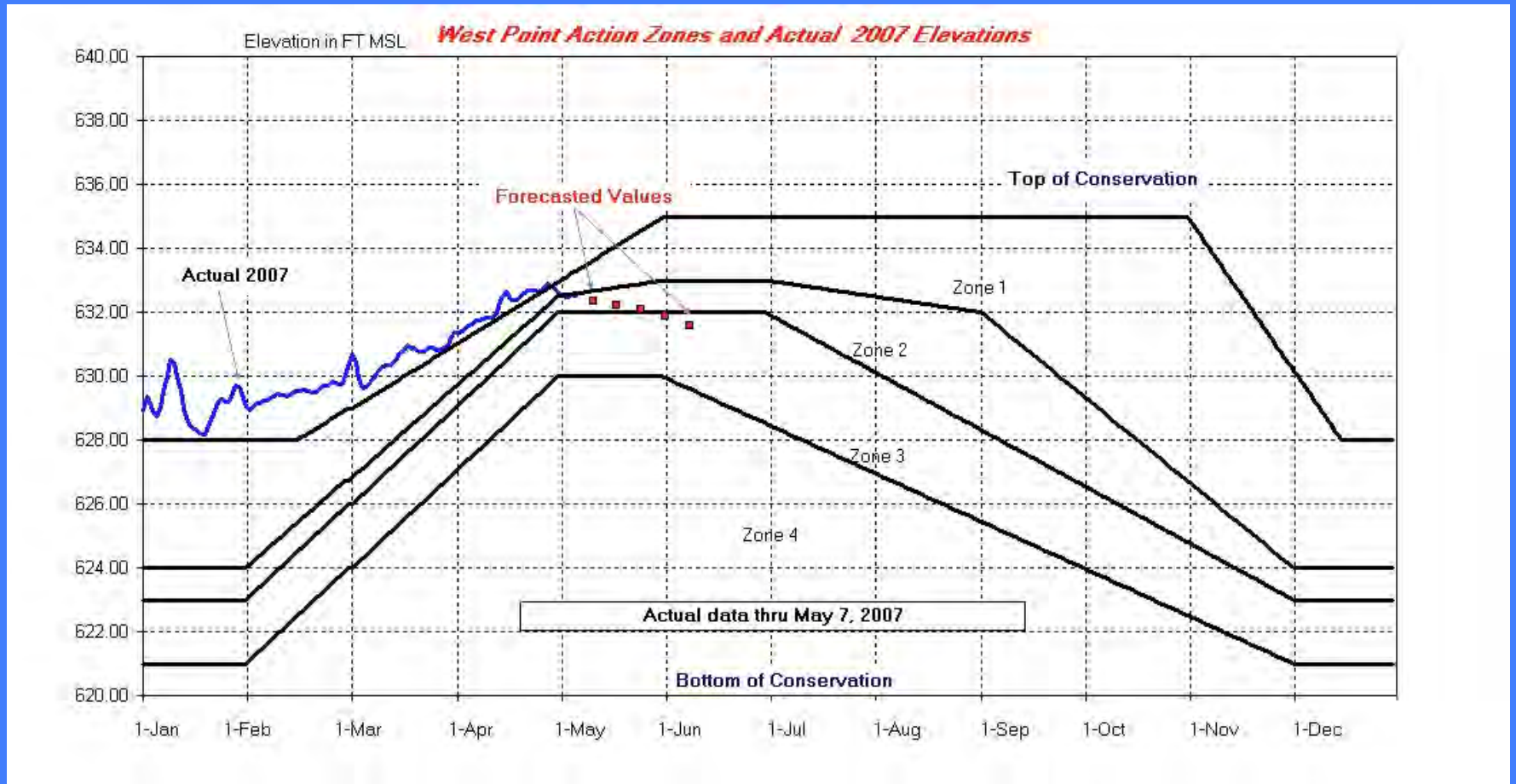
- Comply with existing Federal laws and regulations and established Corps of Engineers policies
- Conform with objectives and provisions of authorizing legislation and supporting reports
- Action zones used as guidelines for determining releases and lake levels for various times of year
- Attempt to balance all reservoirs in system while supporting project purposes



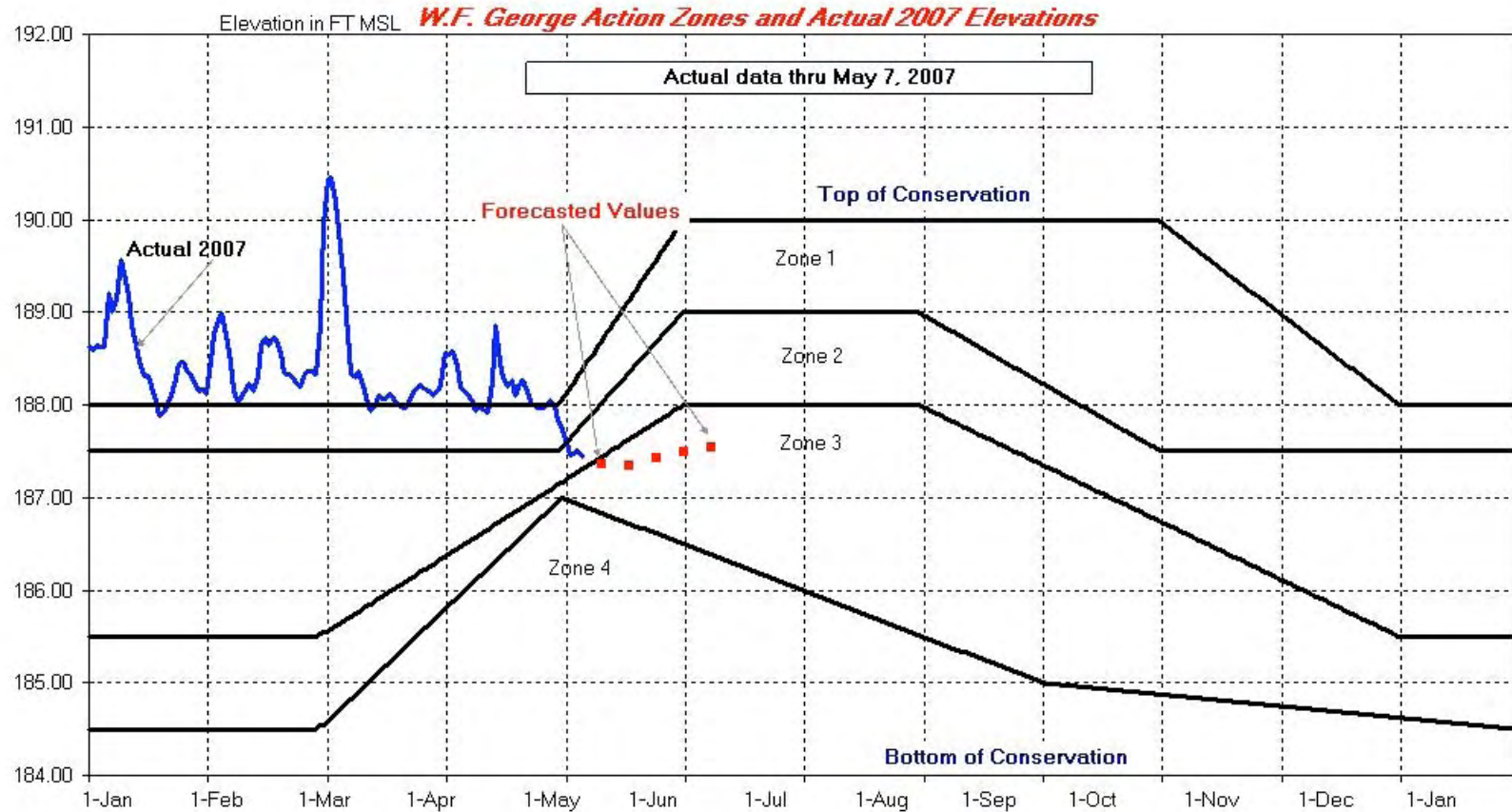
Lake Lanier



West Point Lake



W. F. George Lake



Weekly Coordination Meeting

Recreation

Navigation

Hydropower

Environmental

Public Affairs

Water Management

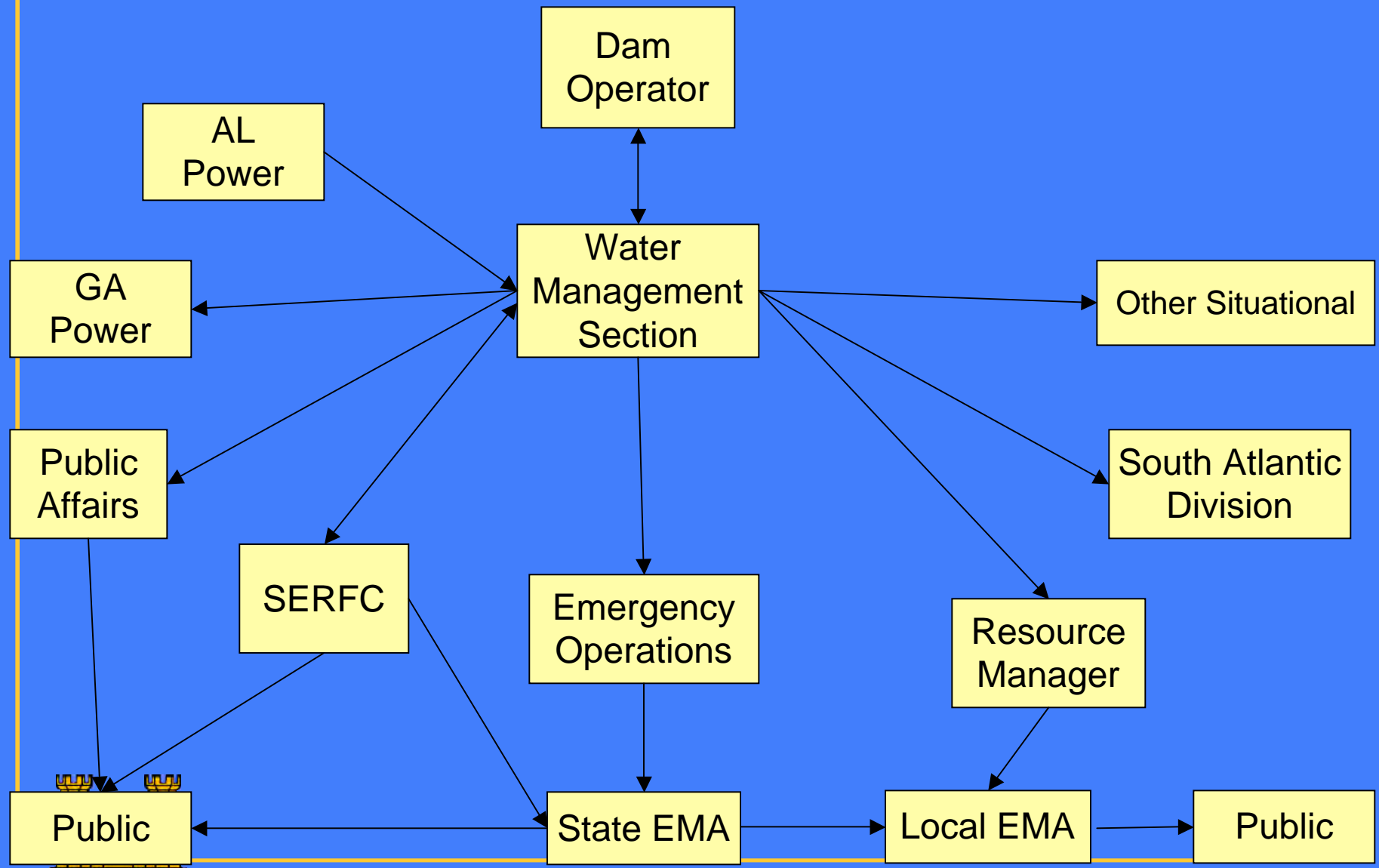


Flood Damage Reduction



- ◆ Winter drawdown at several lakes
- ◆ Store water in lake during event
- ◆ Monitor downstream points
- ◆ Provide notification to Emergency Management Offices
- ◆ Evacuate water as quickly as practicable when downstream conditions allow

Flood Notification



Navigation



- ◆ Seasonal navigation periods
- ◆ Special releases for critical shipments



Hydropower



- ◆ Determine weekly generation based on monthly contract requirement
- ◆ Generation at specific project based on release and system requirements
- ◆ Southeastern Power Administration (SEPA) makes actual schedule within range specified by Water Mgt.
- ◆ Adjustments to schedule made as needed
- ◆ Generation incidental benefit when releases made for other purposes



Recreation



- ◆ Maintain lakes as full as possible according to Water Control Plan
- ◆ Adjust water levels to accommodate special activities on the lakes
- ◆ Make special releases for recreational activities downstream



Environmental & Water Quality



- ◆ Support for fish spawning, endangered species, and other fish and wildlife conservation measures
- ◆ Coordinate releases and levels to enhance water quality and environmental needs
- ◆ Provide releases to meet downstream targets
- ◆ Provide gradual stepdown of river levels where necessary



Municipal and Industrial Water Supply



- ◆ Provide water for industries and municipalities

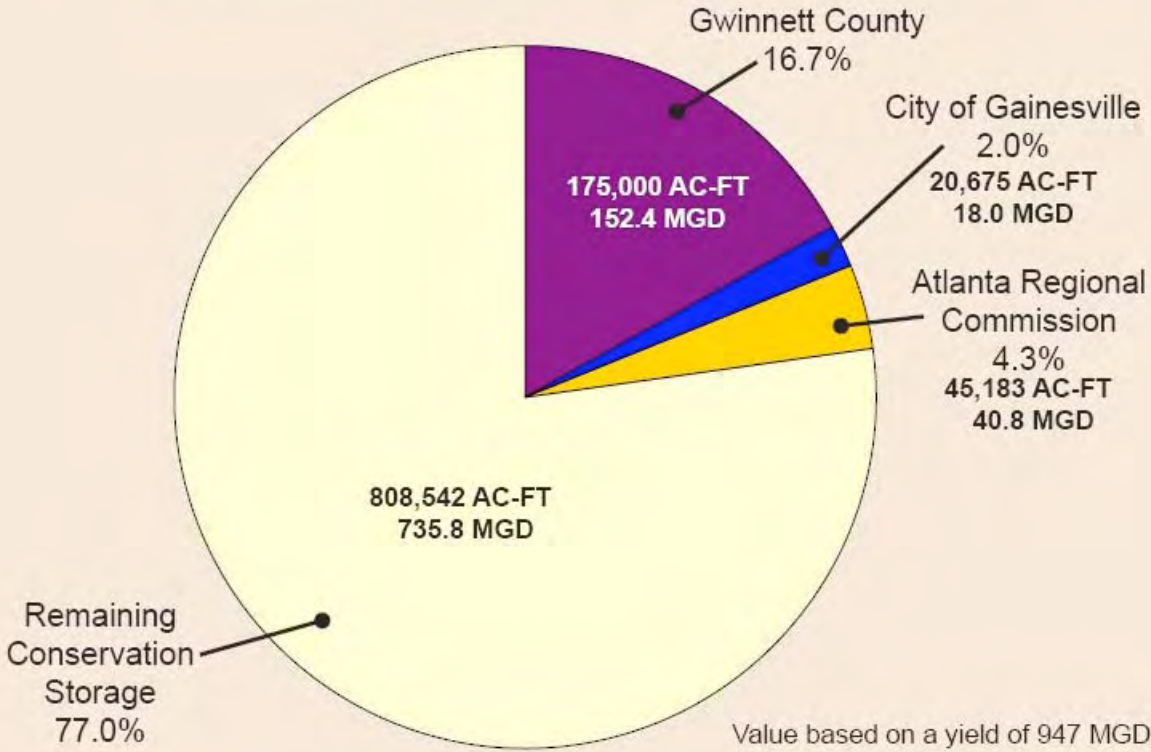


Other Activities

- Interim Operation Plan (IOP) for Endangered Species on Apalachicola River
- Interim Settlement Agreement for Metro Atlanta Water Supply
- Ongoing Mediation & Litigation for ACF & ACT basins
- Current Drought across Southeast

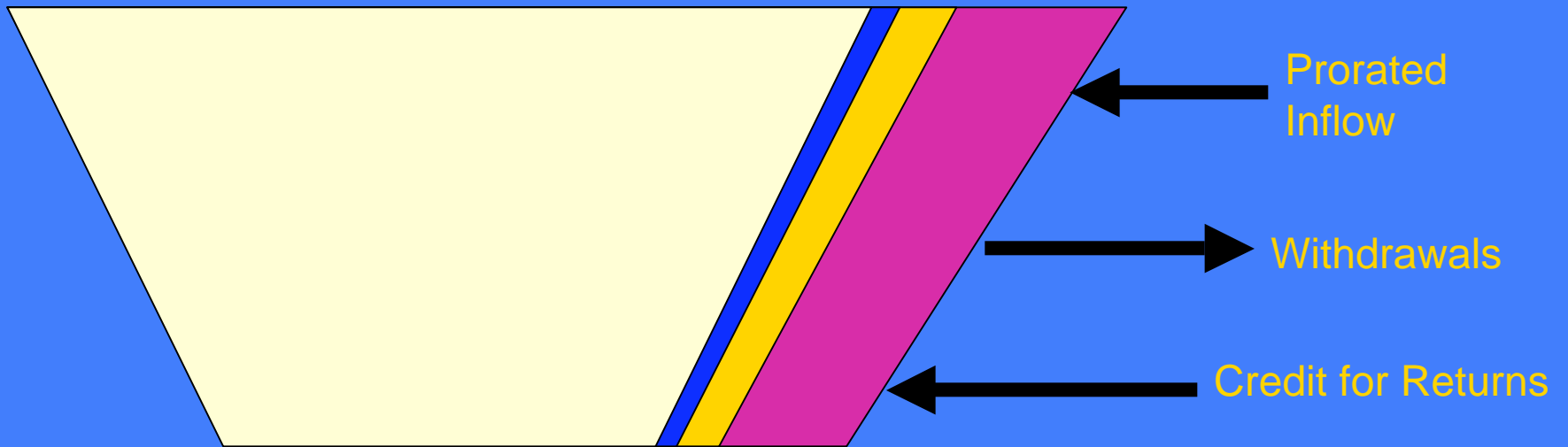


Lake Lanier Proposed Water Supply Allocation in AC-FT



Storage Accounts

Lake Lanier Conservation Storage



	Atlanta Regional Commission 4.3%
	City of Gainesville 2.0%
	Gwinnett County 16.7%
	Remaining Conservation Storage 77.0%



Water Management Homepage



Welcome to the US Army Corps of Engineers
Mobile District
 Water Management Section

Friday, May 18, 2007

by RIVER BASIN	by SUBJECT AREA
Apalachicola-Chattahoochee-Flint (ACF) Lanier, West Point, W.F. George, Andrews, Woodruff	Today's Project Data Readings for today at Locks and Dams. ACF ACT BWT Tenn-Tom
Alabama-Coosa-Tallapoosa (ACT) Allatoona, Carters, R.F. Henry, Millers Ferry, Claiborne	River Stage Forecasts and Weather Information - NWS River Forecast Center reports for selected sites.
Black Warrior-Tombigbee (BWT) Bankhead, Holt, Oliver, Selden, Demopolis, Coffeerville	Lake Level Forecasts - 4-Week projection of lake levels. Updated every Wednesday.
Tennessee-Tombigbee (Tenn-Tom) River Basin Whitten, Montgomery, Rankin, Fulton, Wilkins, Amory, Aberdeen, Stennis, Bevil, Heflin	Average Daily Inflow by Month - Average monthly inflows to major lakes.
Other River Basins (Pascagoula, Escambia) Okatibbee	ACF Basin Inflow Chart ACF Basin Inflow Table ACF Basin Inflow computed at Chattahoochee Gage.
Mobile Area Tidal Gages - Graphs of tidal gages. Alabama, Florida, Mississippi	District River System Status - Weekly summary of activities on the river systems. Updated weekly.
GOES Hourly Data - Hourly gage data	Historical Project Data - Historical data by year in tabular format. ACF ACT BWT Tenn-Tom Other Basins
ACF Basin Map ACT Basin Map BWT Basin Map Tenn-Tom Basin Map	River Bulletin - Water level readings at dams and gages for the last four days. Help reading bulletin
Navigation Notices - Information on commercial navigation in Mobile District Alabama Black Warrior Tombigbee Rivers GIS map.	Record Levels for Rivers and Lakes ACF Basin ACT Basin BWT-Tenn Tom Basin Other Basins
Other Info and Links - Related agencies (USGS, RFC), reference info, regional links Hurricane Storm Surge Reports	ACF Water Resource Links Weekly Basin Report (in PDF format) - Weekly summary of activities on the river systems. Updated every Wednesday.



<http://water.sam.usace.army.mil>