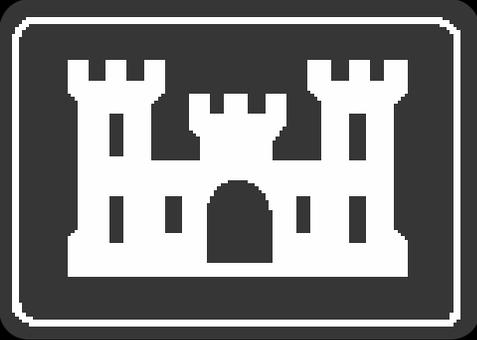
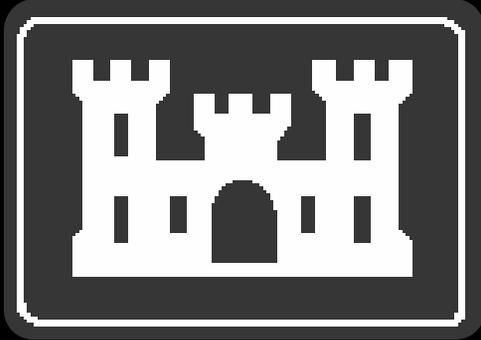


US Army Corps
of Engineers
Savannah District



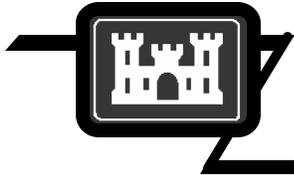
*Presentation for the
2003 Georgia Water Resources Conference
April 24, 2003*

*Presented by
Mr. Leroy Crosby, Chief of Plan Formulation
Savannah District*



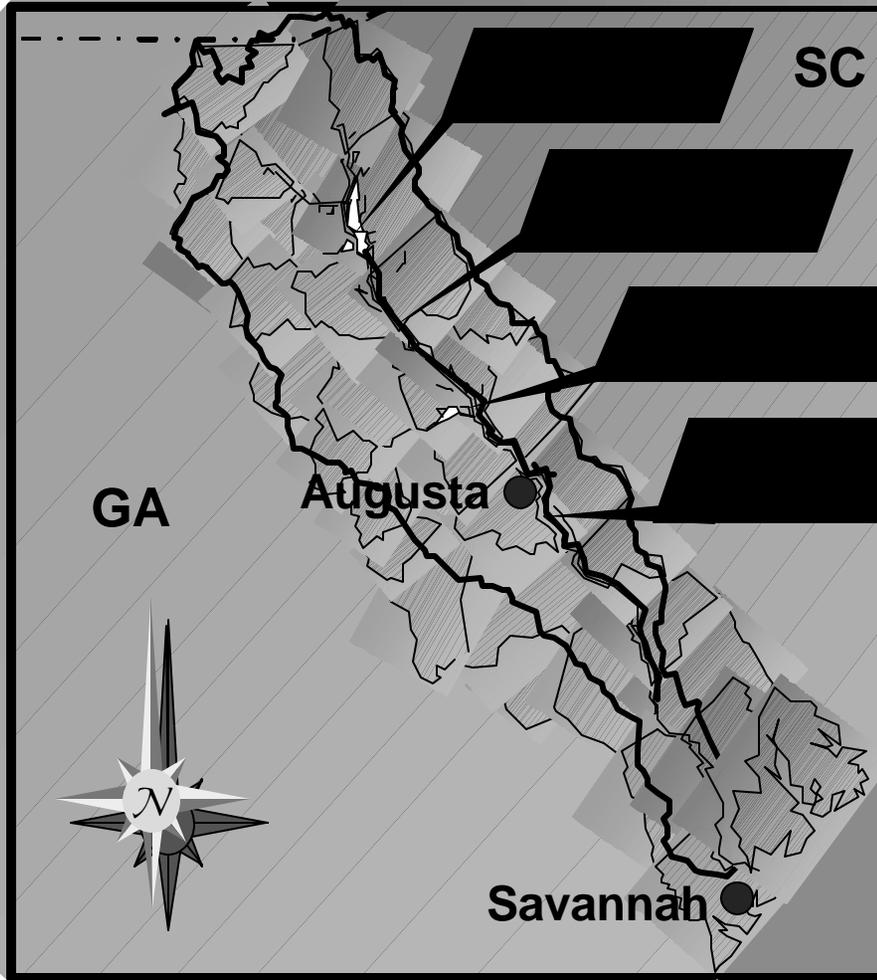
***Comprehensive
Water Resources Study
for the
Savannah River***

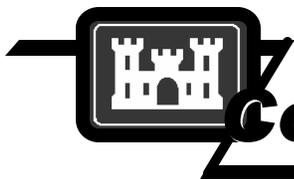




Savannah River Basin Savannah District

Savannah District





Savannah River Basin Comprehensive Study Balancing Uses



Wetlands / Habitat

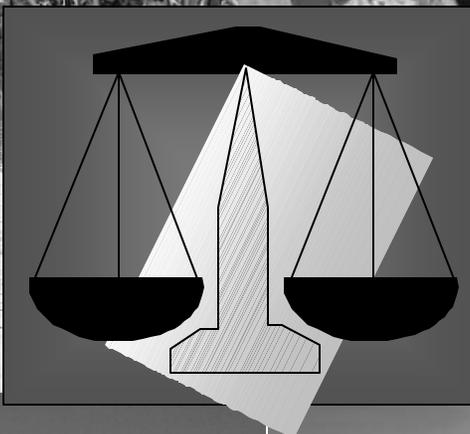


Water Supply

Savannah District



Aquatic Plant Control



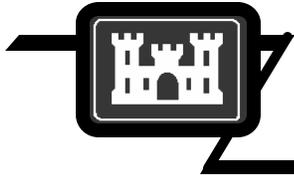
Hydroelectric Power



Recreation



Flood Control



Basin Water Issues

Savannah District

- ◆ **Upper Basin Needs vs. Downstream Needs**
 - ❖ **Lakes - River / Estuary**
 - ❖ **New Water Supply - Groundwater to River Supply**
 - ❖ **Maintain lake levels - Maintain or Enhance Flows**
- ◆ **Water Supply Allocations**
 - ❖ **Lake Levels for Recreation / Commercial Activities**
 - ❖ **In-Lake Reallocations**
 - ❖ **Downstream In-River Allocations**
 - ❖ **Groundwater Use - Future Coastal Supply**
 - ❖ **Future Demands**
 - ❖ **Impacts of Interbasin Transfers**



Basin Water Issues (cont'd)

Savannah District

◆ Hydropower

- ❖ **Capacity & Energy**
- ❖ **Regional Affects of Energy Production**
- ❖ **Pump Storage Facilities**

◆ Flood Control

- ❖ **Flood Control Below JST**
- ❖ **Storage Reduction**
- ❖ **Flood Plain Mitigation**



Basin Water Issues (cont'd)

Savannah District

◆ **Water Quality (Flows)**

- ❖ **Discharge Permits and Droughts**
- ❖ **Saltwater Intrusion & DO in Savannah Harbor**

◆ **Habitat**

- ❖ **Ecological Flow Requirements**
- ❖ **Wetland Impacts**
- ❖ **Estuarine Issues**



Basin Water Issues (cont'd)

Savannah District

◆ Recreation

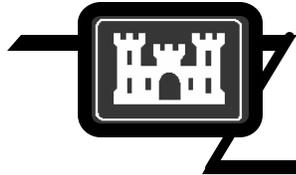
- ❖ **Lake Levels for Recreation / Commercial Activities**
- ❖ **Regional Economic Value of Recreation**
- ❖ **Economic Impacts of Low Lake Levels**

◆ Aquatic Plant Control

- ❖ **Instream**
- ❖ **In Lakes OK - have a plan**

◆ Navigation

- ❖ **Commercial Navigation**
- ❖ **SRS Requirements**



Comprehensive Water Resources Study for the Savannah River Basin

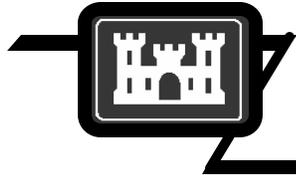
Savannah District

Study Scope

- ◆ **Time**
 - ❖ **Recon - 18 Months**
 - ❖ **Feasibility - Four to Five Years**

- ◆ **Cost**
 - ❖ **Recon - \$600K**
 - ❖ **Feasibility - \$4 Million**
 - ? **Cost-shared 50/50%**

- ◆ **Study Design**
 - ❖ **Build on Partnerships**
 - ❖ **Adapting Existing Tools**

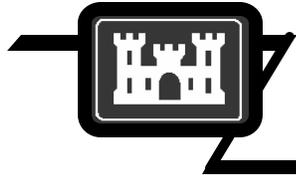


Comprehensive Water Resources Study for the Savannah River Basin

Savannah District

Current Direction

- ◆ **Conducting Feasibility Phase**
 - ❖ **Two Phased Effort**
 - ? **Preliminary Phase**
 - ? **Detailed Phase**



Comprehensive Water Resources Study for the Savannah River Basin

Savannah District

Phase One – Focus On Changing Operations

- ◆ **Working With Stakeholder Groups**
 - ❖ **Clearly define their needs - current & future**
- ◆ **Model Preparation**
- ◆ **Develop Historical Data**
- ◆ **Develop & Evaluate Allocation Scenarios**
- ◆ **Have a plan? Or, on to Phase Two**



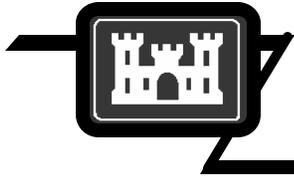
Intermediate Phase One Milestones

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Task

Completion Date

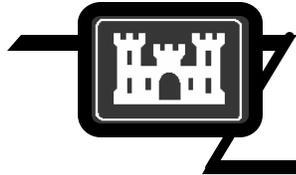
◆ Conduct Ecological Flow Workshop	1-3 April 03
◆	
◆ Complete Stakeholder Analysis	31 July 03
◆	
◆ 1 st Draft Hydrology and Hydraulic Data Set	31 July 03
◆	
◆ RES-SYM Reservoir Model Completion and Turnover	30 Sep 03
◆	
◆ Formulate Allocation Scenarios	30 October 03
◆	
◆ Evaluate Allocation Scenarios	31 December 03
◆	
◆ Complete Phase One	31 January 04



Guiding Principles

Savannah District

- ◆ **Non-confrontational**
- ◆ **Science-based**
- ◆ **Cooperative, solution-oriented**
- ◆ **Emphasize places, people and the future**
- ◆ **Partnerships and community-based conservation**

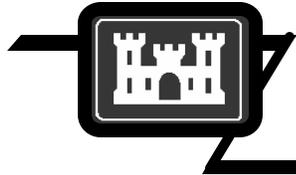


Comprehensive Water Resources Study for the Savannah River Basin

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Phase Two Schedule – Focus Reallocation

- ◆ **Work With Stakeholder Groups**
 - ❖ **Clearly quantify their needs - current & future**
- ◆ **Additional Studies to support demands**
- ◆ **Additional Model Evaluations**
- ◆ **Evaluate Allocation Scenarios**
- ◆ **Recommendations to Congress**



Comprehensive Water Resources Study for the Savannah River Basin

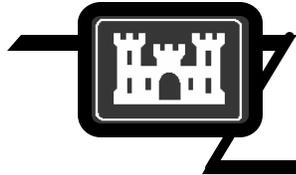
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Who Manages?

- ◆ **Federal – Georgia – South Carolina**

- ◆ **How Manage?**
 - ❖ **Compacts**
 - ❖ **Basin Commission**
 - ❖ **Taskforce**

- ◆ **Institutional Studies**

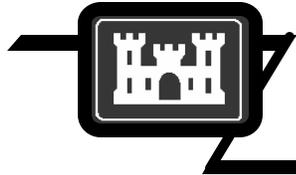


Comprehensive Water Resources Study for the Savannah River Basin

Savannah District

Role of SRBC

- ◆ **Sound Science & Tools**
 - ❖ **H&H data – models - stakeholders**
- ◆ **Evaluate Alternatives**
 - ❖ **reallocations – increase storage**
- ◆ **Evaluate Management Options**
- ◆ **Recommendations to Congress**



ACF/ACT <> SRBC

What's Different?

Savannah District

Issue

ACF/ACT

SRBC

Climate

“Water war”

“Peacetime”

Headwater Control

One State

Shared

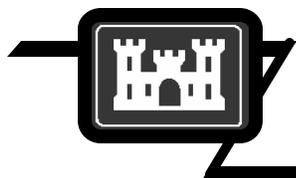
Corps Role

Support

Action

O&M – info

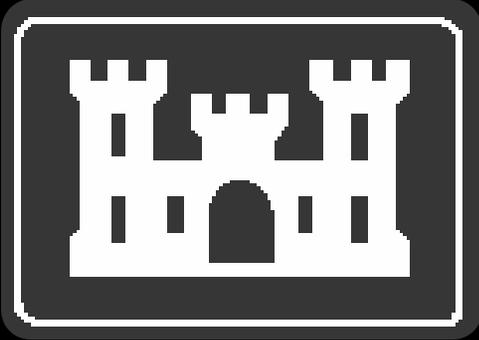
**GI Feasibility
Study**



Coordination / Communication

Savannah District

www.wisaslusace.army.mil
/srbstudy.htm



Questions?