



Southern Instream Flow Network

State Policy Status and Assessment

WebEx Conference

June 19, 2009

Today's presenters

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USGS – TNC Global Freshwater Program

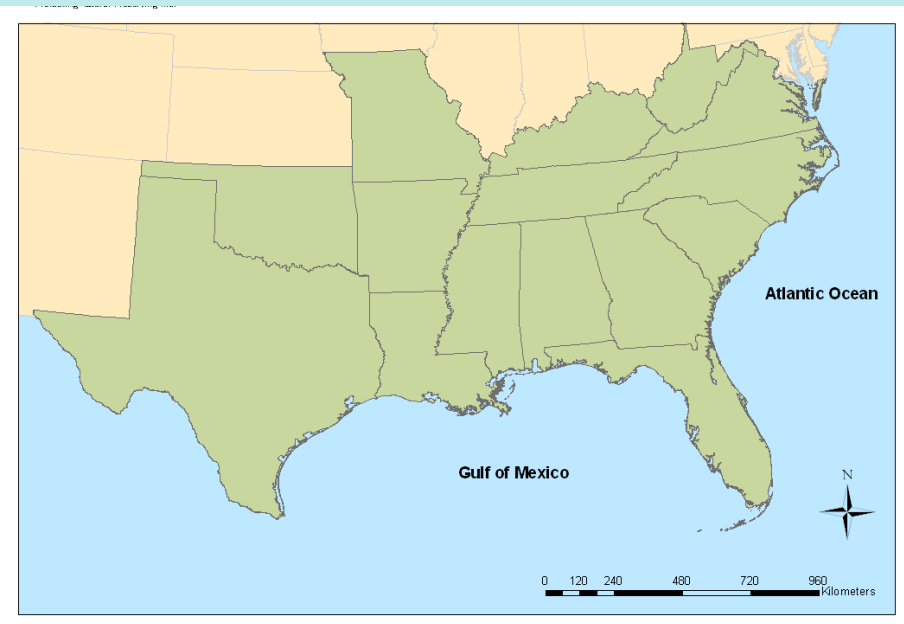
SIFN WebEx Conference Agenda and Objectives:

1. Welcome and introductions
2. Status of Instream Flow Policies in the Southeast
3. E-Flow Calculator: introduction, methods, and availability
4. Demonstration of E-Flow Calculator to assess Instream Flow Criteria
5. Discussion and feedback
6. Upcoming SIFN events

SOUTHEAST AQUATIC RESOURCES PARTNERSHIP

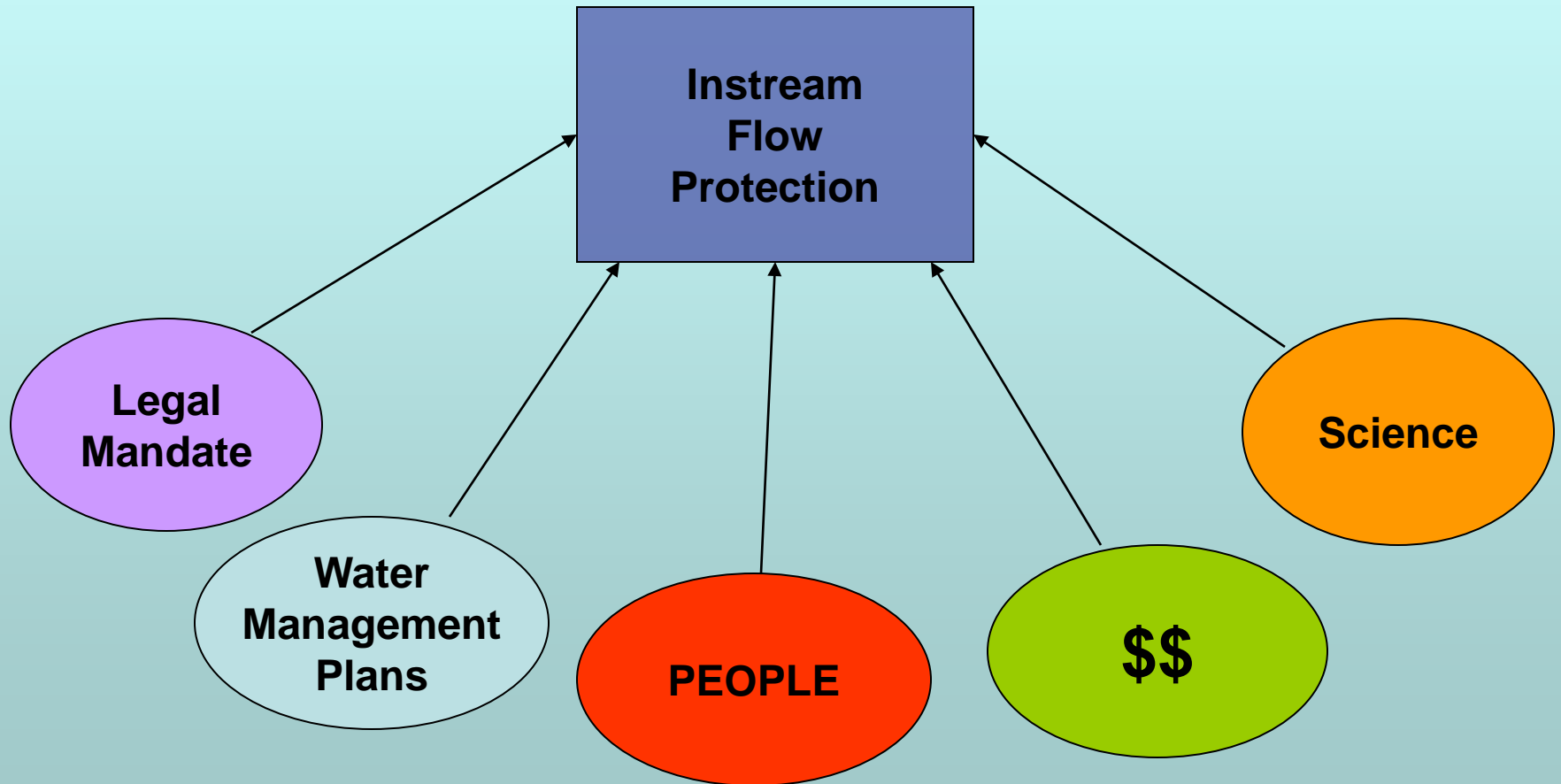


Southern Instream Flow Network



Purpose - To implement protective instream flow policies in 15 southern states by providing science-based resources and opening lines of communication.

Supporting Elements of State Instream Flow Protection



State Water Management and Instream Flow Protection Activities

	Comprehensive State Water Management Plan	Water Management Decision Support Model	Safe Water Allocation Limits	Surface Water Withdrawal Permits	Protective Instream Flow Permit Criteria
Alabama	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arkansas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Florida	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Georgia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kentucky	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Louisiana	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mississippi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Missouri	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North Carolina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Oklahoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
South Carolina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tennessee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Texas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Virginia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
West Virginia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- In legislative review

- Unmandated action

- Mandated action under development

- Mandated action Implemented

Instream Flow Policies of Southern States

None or 7Q10	Statewide Default Criteria		Site-specific criteria on priority rivers	
	% Low Flow	Modified Tennant	Limiting Habitat	Percent of Flow
AL KY LA MS MO OK TX WV	NC TN	AR GA SC (regional)	GA NC TX	FL KY TN VA

————— Increased level of flow protection? —————>

E-Flow Calculator: Introduction, methods, and availability

Developed and presented by:

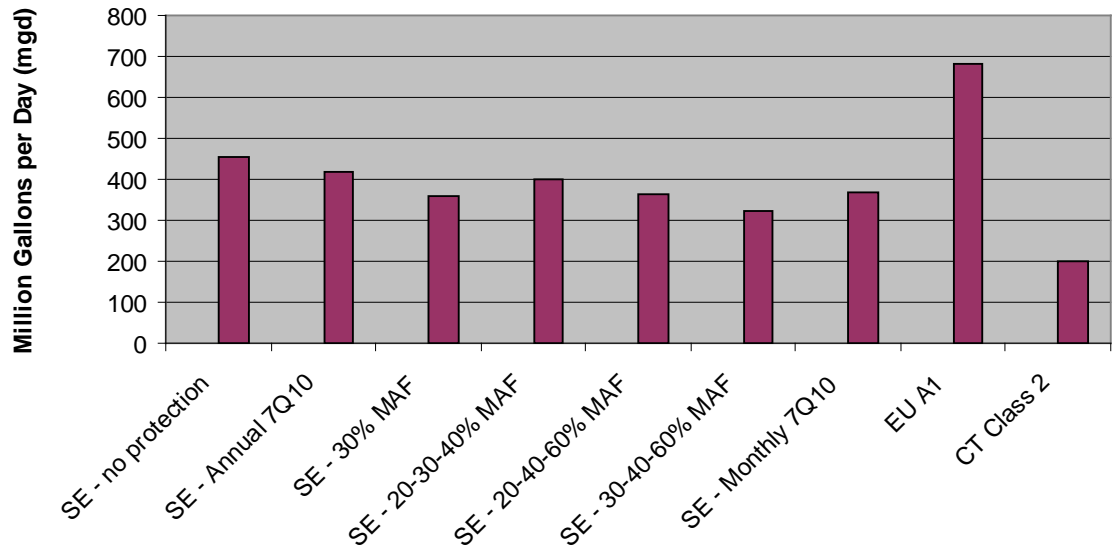
Chris Konrad, Ph.D., Hydrologist

USGS – TNC Global Freshwater Program

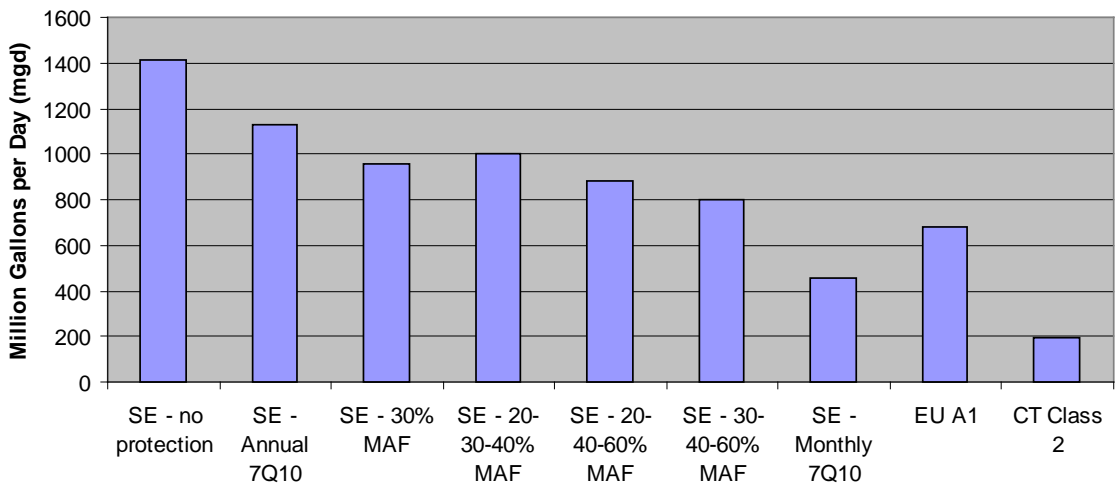
Evaluation of E-Flow Calculator output:

1. Export daily flows for reference and impacted conditions from Excel into files with appropriate format for comparison
2. Assess impacts to ecological flow components using Index of Hydrologic Alteration (IHA) or other assessment tool
3. Compare scenarios under different instream flow criteria and/or different rivers

**Available Water
(SE criteria with 7Q10 max allocation)**



**Available Water
(SE criteria with 4 X 7Q10 max allocation)**



**Impacts of Instream
Flow Criteria
on available water under
two allocation scenarios
(1 X 7Q10 and 4X 7Q10)**

Uses for E-Flow Calculator:

- 1. Demonstrate trade-offs between the level of protection of instream flow criteria and amounts of available water for allocation limits**
- 2. Focus study on impacted ecological flow components**
- 3. Identify applicability of instream flow criteria to different types of rivers**

Instream Flow Criteria Status and Assessment

What else can SIFN help you do?

Discussion and Feedback

Please provide additional feedback in the evaluation that you will be asked to fill out at the end of this conference.

Upcoming SIFN WebEx Conferences:

July 23 at 1:00 PM EDT – Messaging and Communications

August/September – Instream flow research needs

Annual SIFN workshop

Tentative dates: first two weeks in December, location TBD

Uses for the E-Flow Calculator

On your river:		Does the watershed water management plan specify a 'Safe' Water Allocation Limit?	
		Yes	No
Are protective instream flow criteria applied to permitted withdrawals?	Yes	Assess whether withdrawals in a permit application will exceed limits	Determine the amount of water that is available for allocation while protecting instream flows
	No	Determine criteria alternatives that protect instream flows	Demonstrate trade-offs between the level of protection of instream flow criteria and amounts of available water for allocation limits