



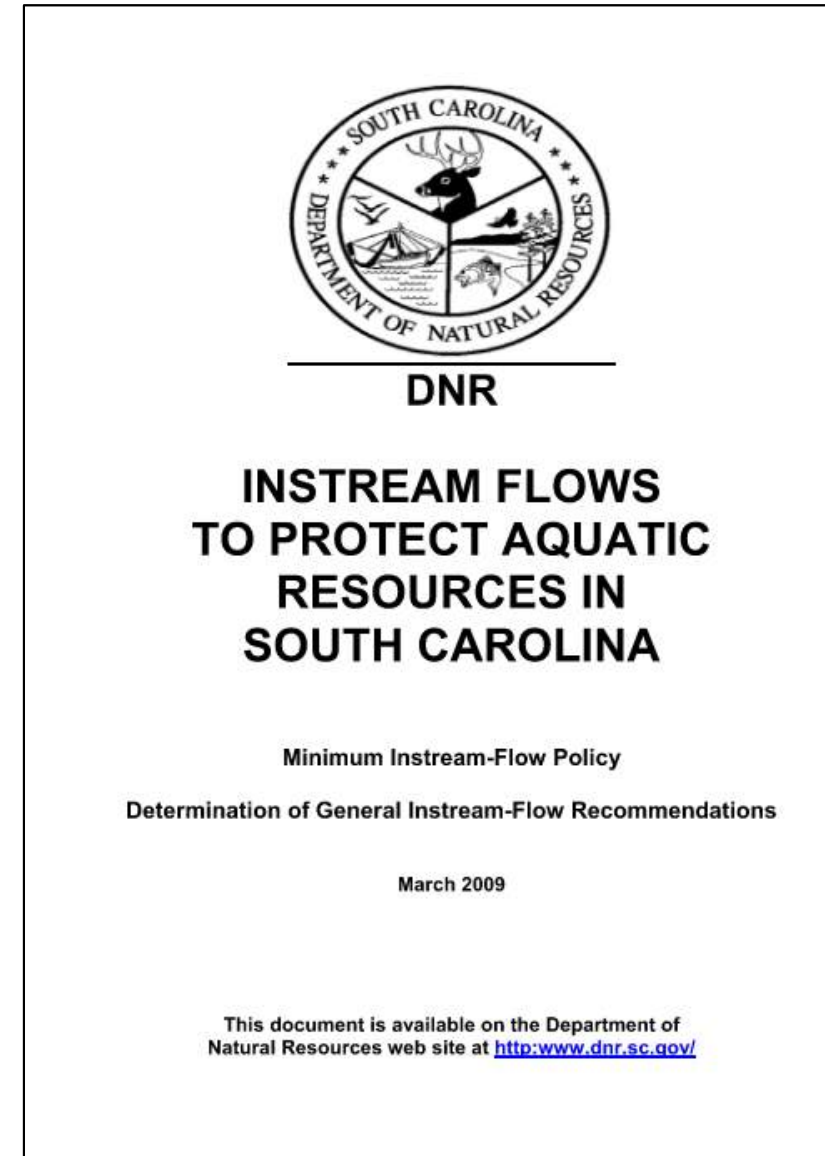
# August Meeting Highlights

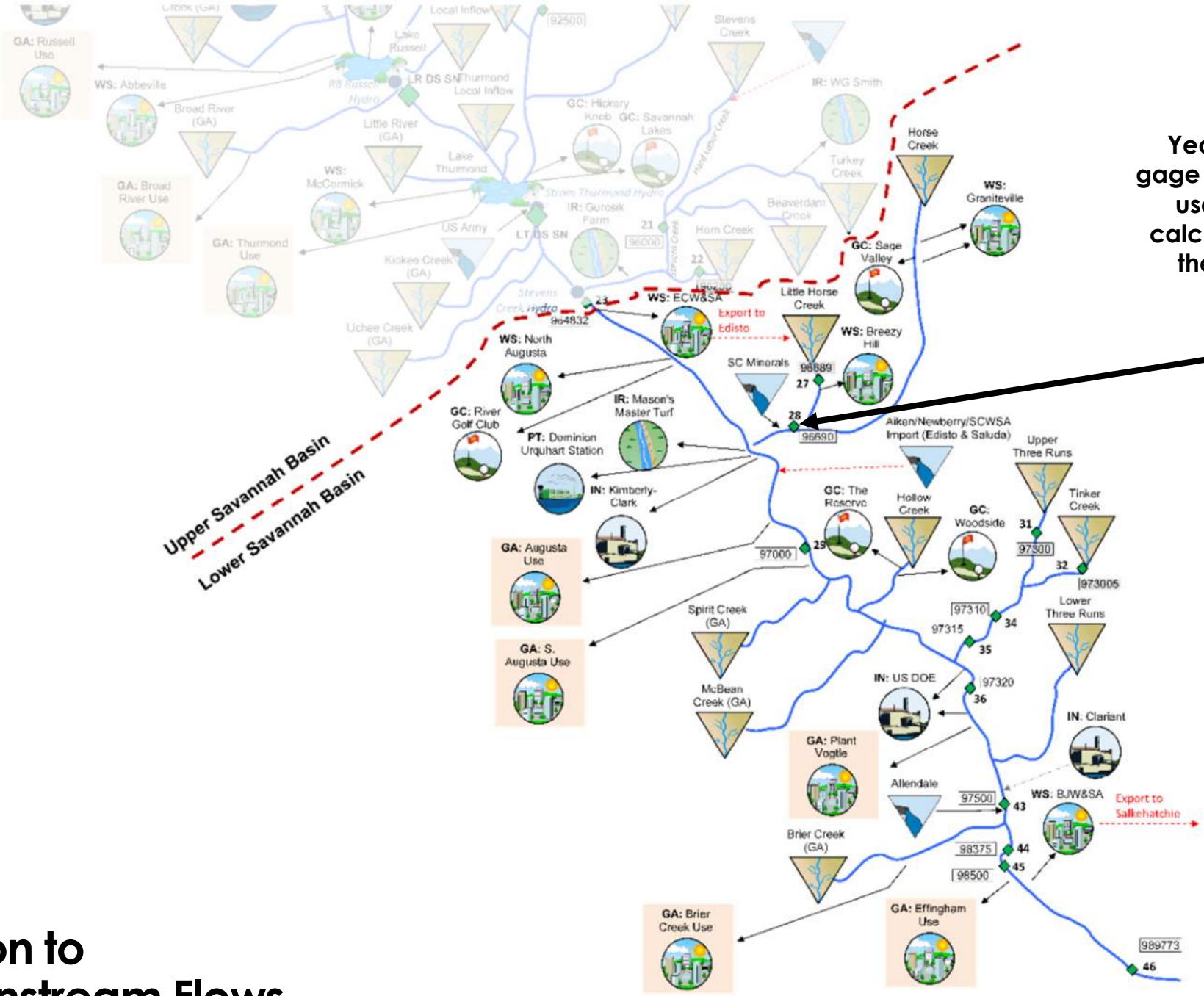
# 2009 SCDNR Instream Flow Policy

- Adopted results of 1988 study
  - Seasonal variability in flows
  - Fisheries requirements as limiting
- Based on variation in fish habitat needs in the Piedmont vs the Coastal Plain, DNR recommended MIFs vary
- DNR will request MIFs below proposed or existing dams be maintained at minimum levels noted in the table

Table VI. DNR recommended minimum acceptable instream flows.

Region	Period	Minimum Recommended Instream-Flow
Coastal Plain	July – November	20% of mean annual daily flow
	January – April	60% of mean annual daily flow
	May, June & December	40% of mean annual daily flow
Piedmont	July – November	20% of mean annual daily flow
	January – April	40% of mean annual daily flow
	May, June & December	30% of mean annual daily flow



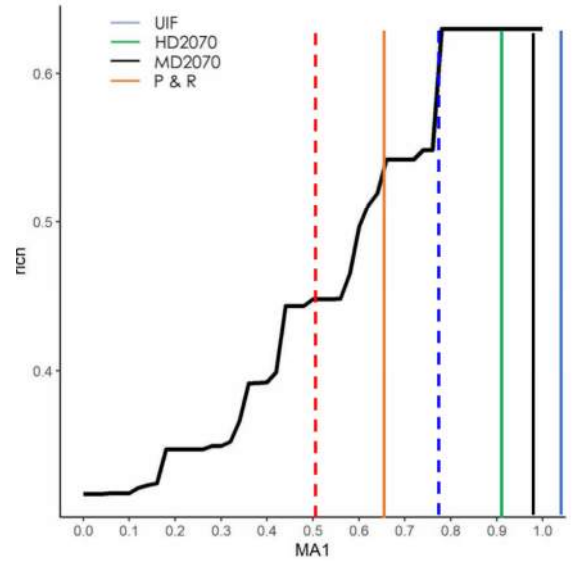


Years of gage data used to calculate the MIF

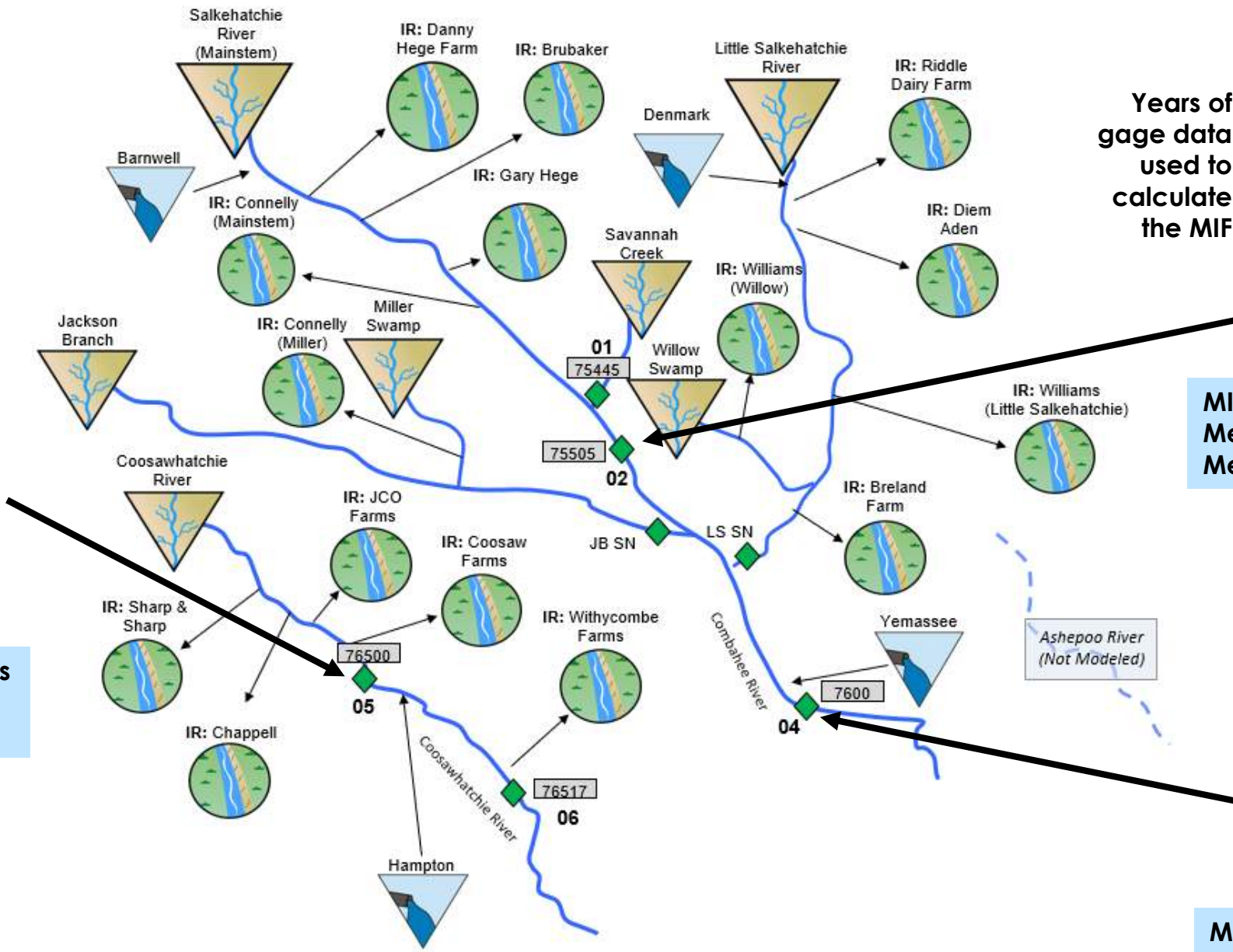
Horse Creek at Clearwater (19 yrs)	
UIF	0.1
Current	0.2
2070 Mod	0.3
2070 HD	1.0
P&R	4.9

Percent of days below MIF for the location

SAV28 Horse Creek: MA1-Richness



# Comparison to Minimum Instream Flows Lower Savannah River Basin



**Coosawhatchie River near Hampton (73.5 yrs)**

UIF	44.6
Current	45.4
2070 Mod	45.6
2070 HD	45.8
P&R	50.0

MIF ranges from 31 to 62 cfs  
 Mean flow is 155 cfs  
 Median flow is 57 cfs

Years of gage data used to calculate the MIF

**Salkehatchie River near Miley (73.5 yrs)**

UIF	9.7
Current	9.8
2070 Mod	9.9
2070 HD	10.1
P&R	12.2

Percent of days below MIF for the location

MIF ranges from 63 to 125 cfs  
 Mean flow is 313 cfs  
 Median flow is 236 cfs

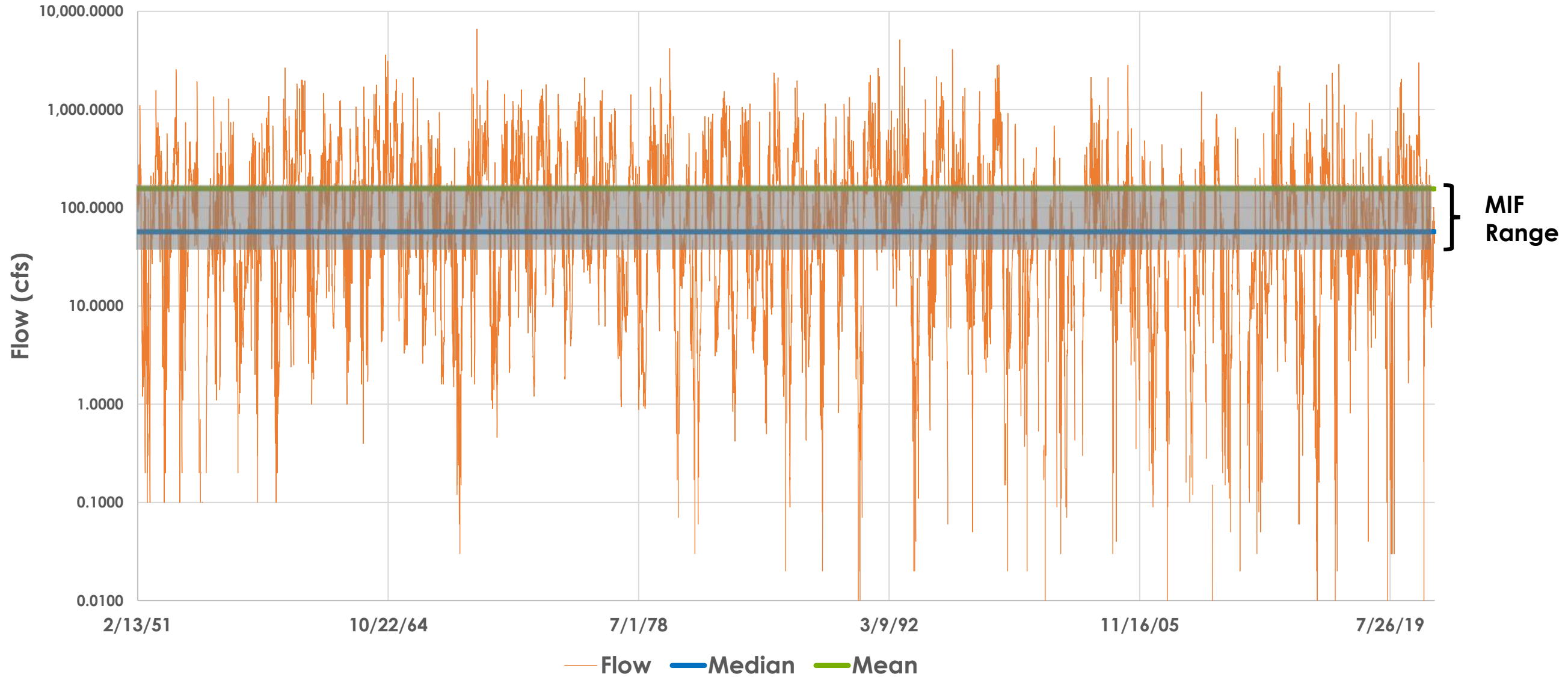
**Combahee River near Yemassee (6.1 yrs)**

UIF	7.6
Current	7.7
2070 Mod	7.9
2070 HD	8.2
P&R	9.7

MIF ranges from 94 to 189 cfs  
 Mean flow is 472 cfs  
 Median flow is 302 cfs

**Comparison to Minimum Instream Flows Salkehatchie River Basin**

# Coosawhatchie River Near Hampton Flow (CFS)



**MIF ranges from 31 to 62 cfs**  
**Mean flow is 155 cfs**  
**Median flow is 57 cfs**

# Water Use in Agriculture - Coosaw Farms Example

- Crops – Watermelons, blueberries blackberries, field corn, cotton and sorghum
- Triple bottom line approach – people, profit, planet
- Methods of irrigation:



**Center  
Pivot**



**Micro  
Emitters**



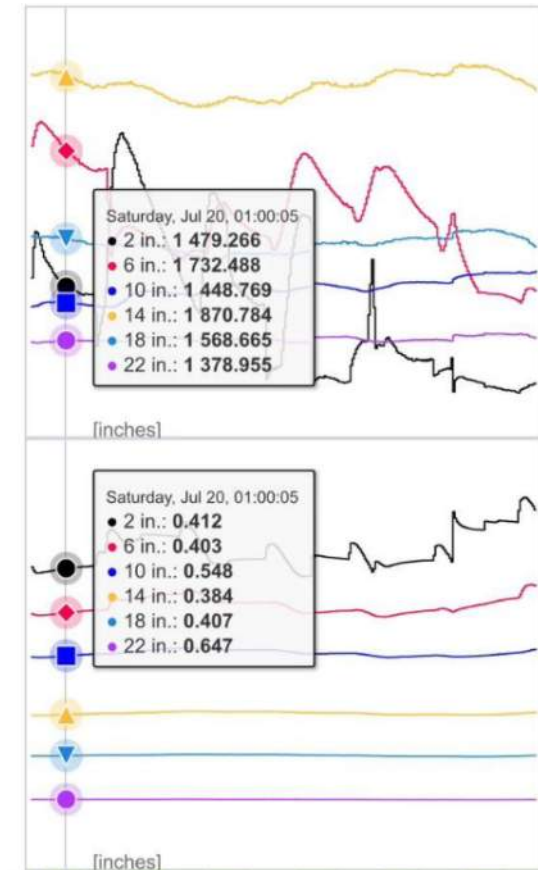
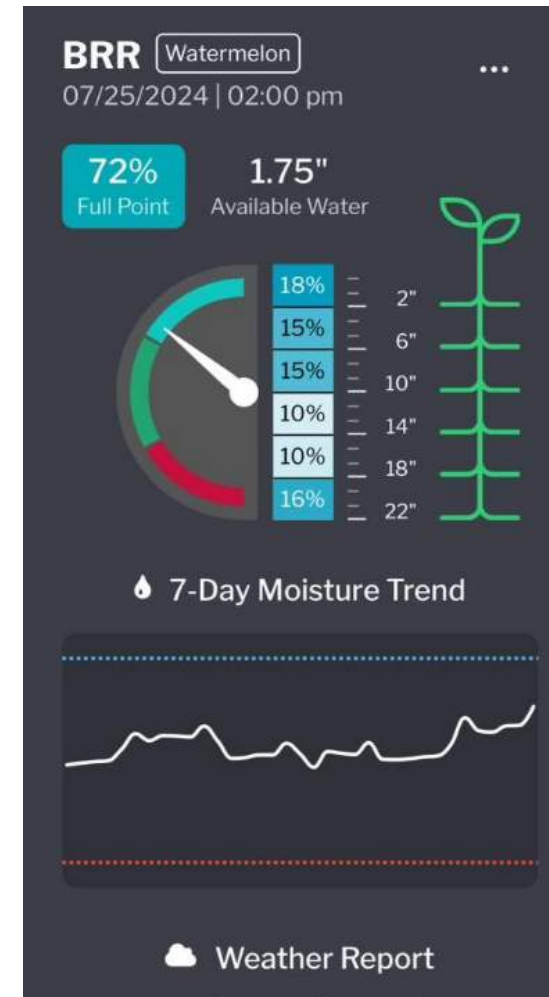
**Solid Set  
Sprinklers**

# Water Use in Agriculture - Coosaw Farms Example

- Filter stations for reuse of water



- Moisture sensors for monitoring water use



# Water Use in Agriculture - Coosaw Farms Example

- Strategy for conservation



**Capture rainwater out of season**



**Capture excess runoff in season**



# Water Use in Agriculture - Coosaw Farms Example

- Strategy for conservation

