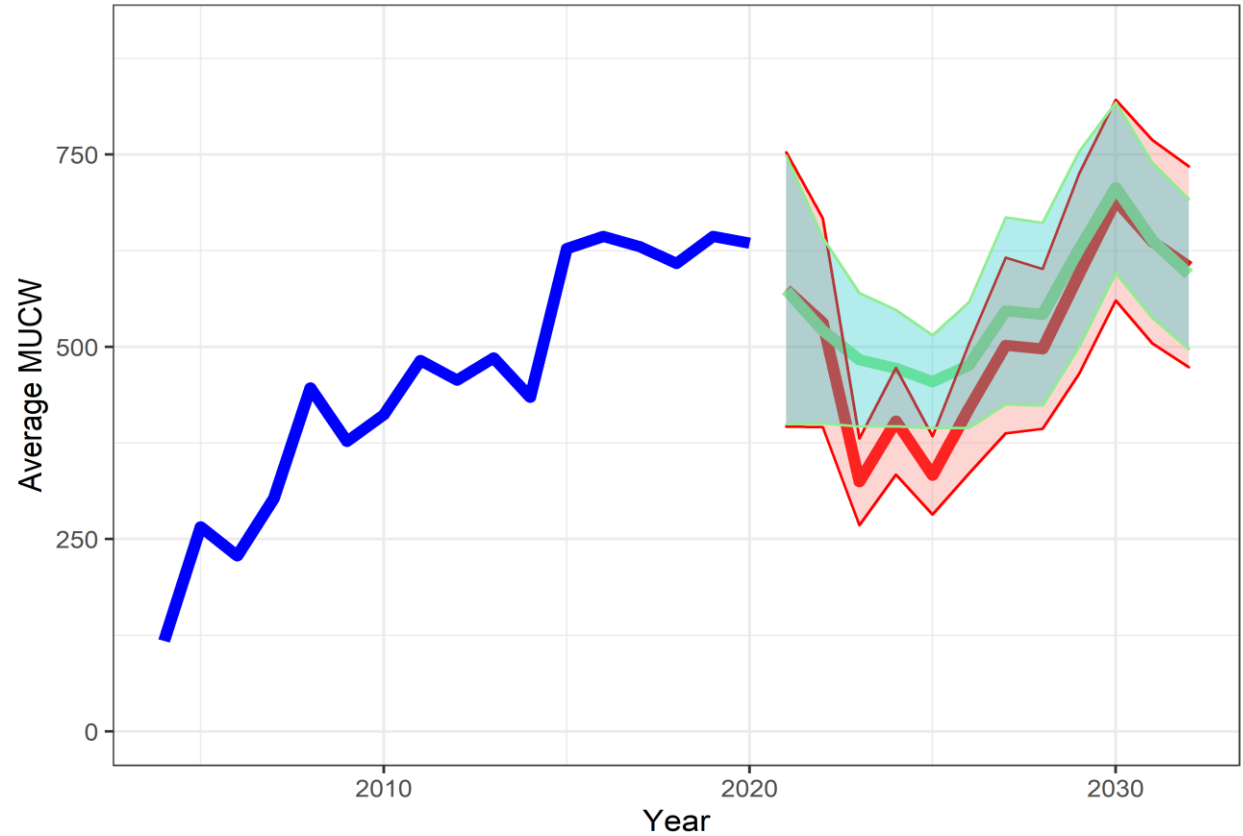
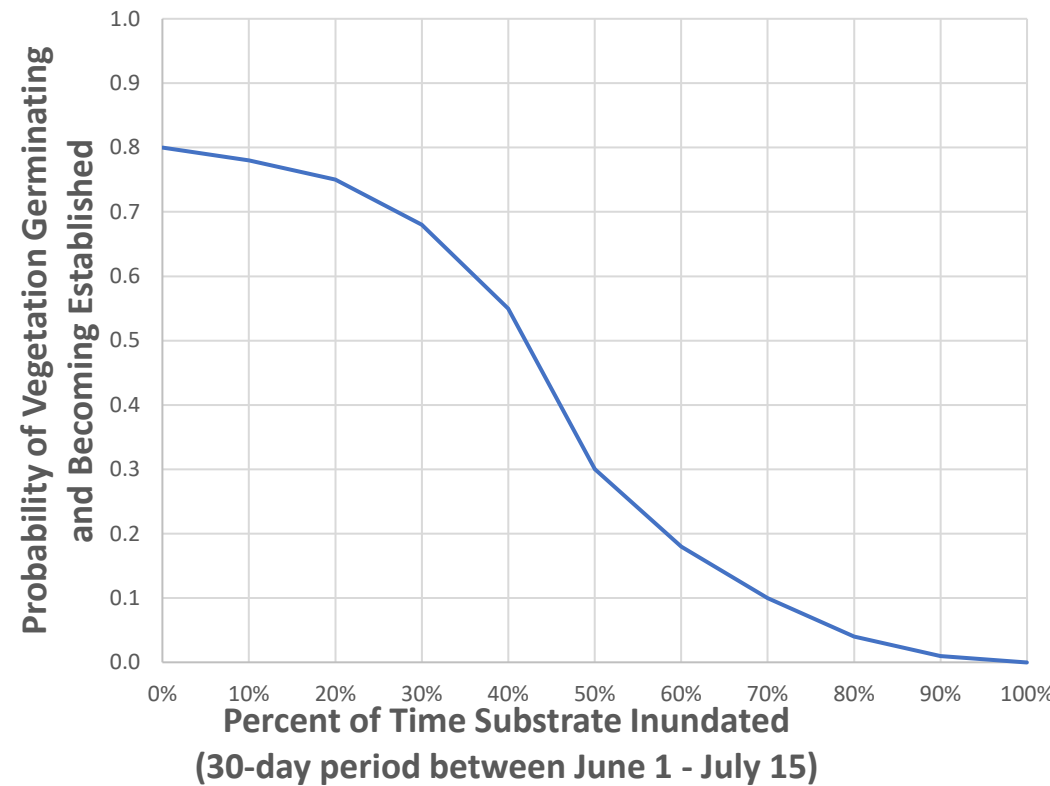


# Extension Science Plan Update

Malinda Henry – Science Lead, PRRIP EDO Staff

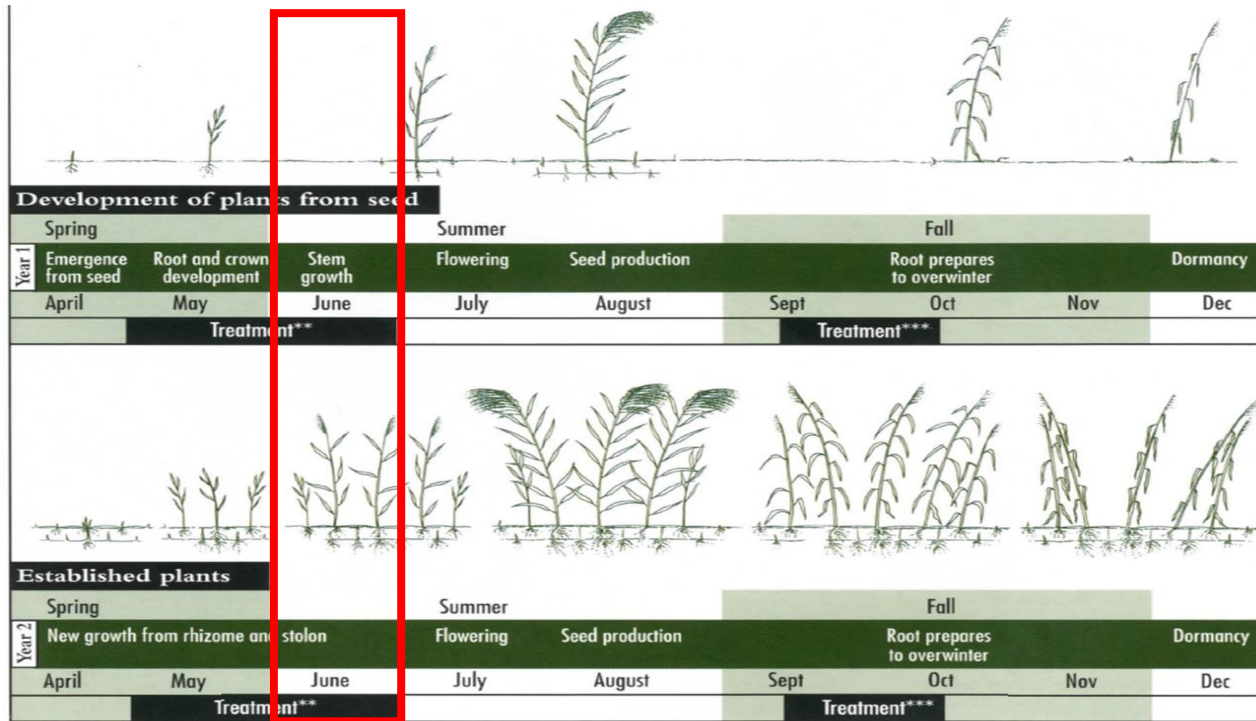


# Big Question: How effective is it to use Program water to maintain suitable whooping crane roosting habitat?



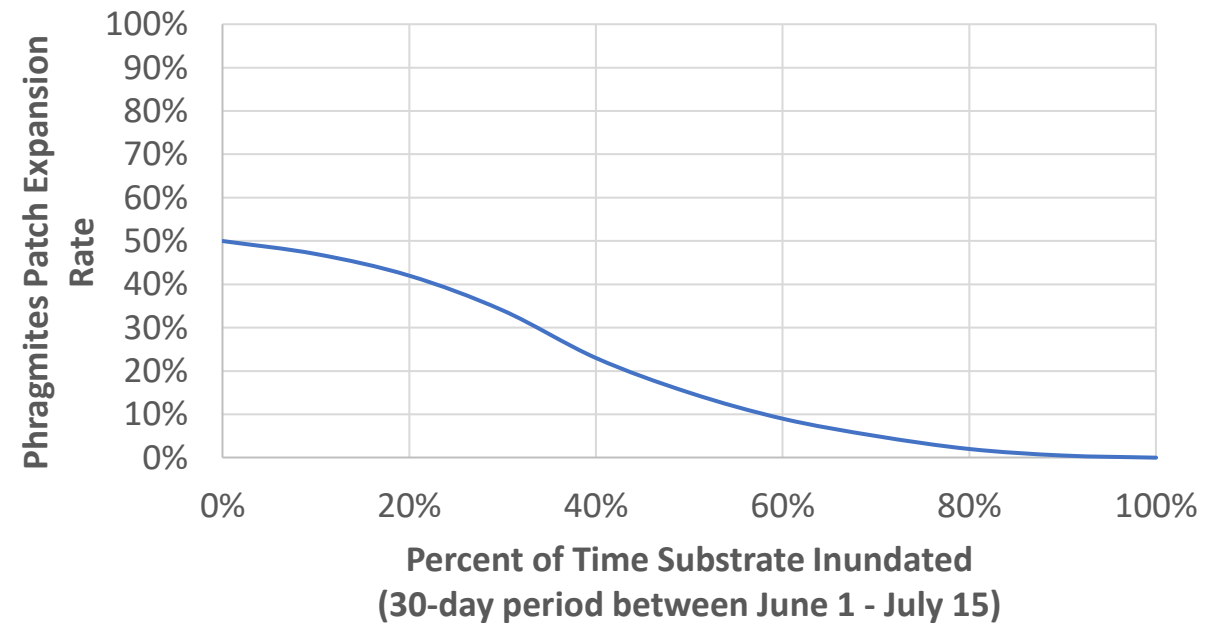
# Big Question: How effective is Program management of *Phragmites* for maintaining unobstructed channel widths for WC?

- How effective have previous Program control efforts (flow, spraying) been?
- How much do growing season flows influence *Phragmites* expansion/control?

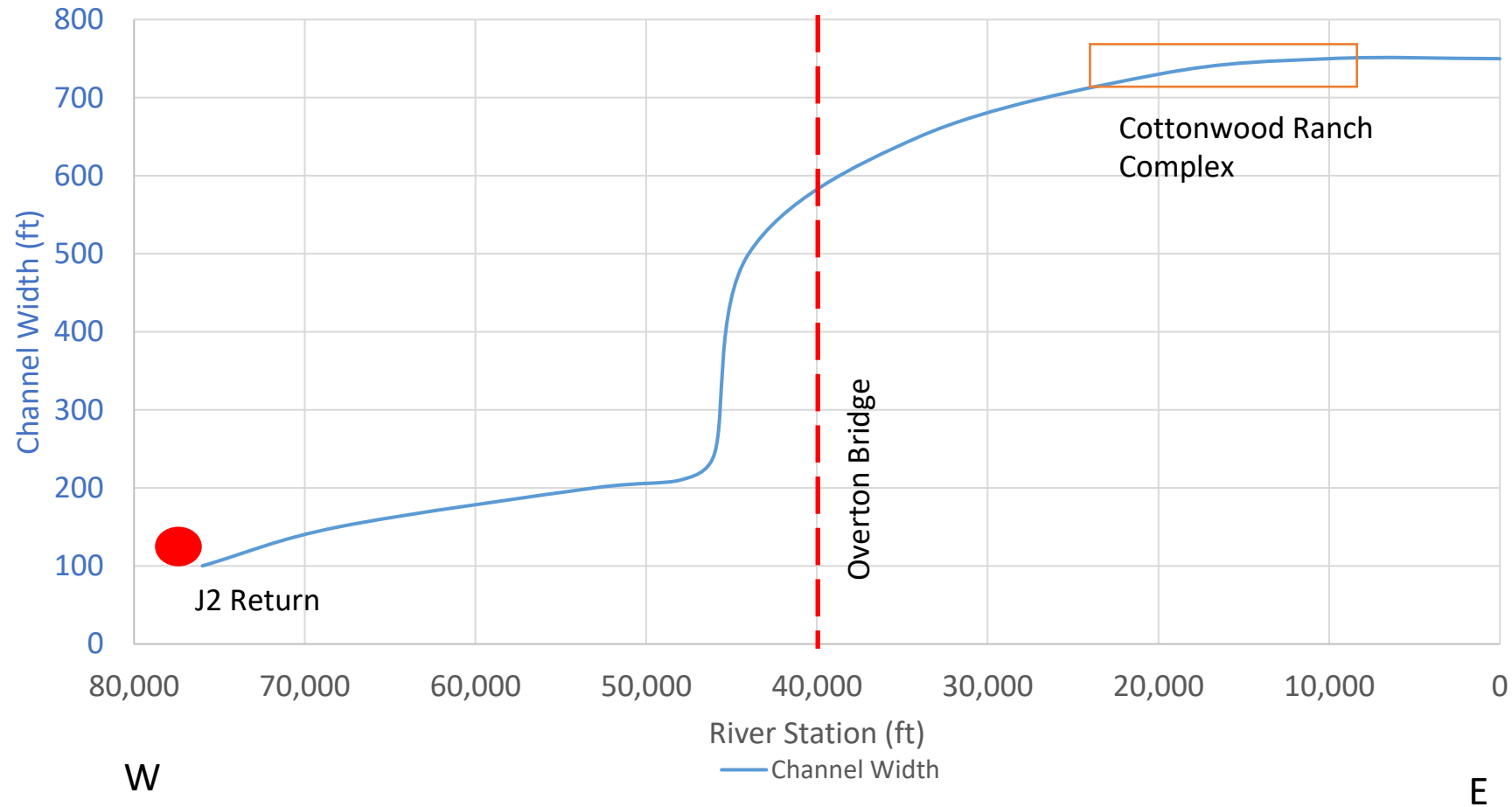


\*Life cycles in Year 2 and consecutive years are similar.  
 \*\*Spring treatment should be at 2-3 feet of growth.  
 \*\*\*Fall treatment should be 2-3 weeks before killing frost.

Knezevic et al. 2008

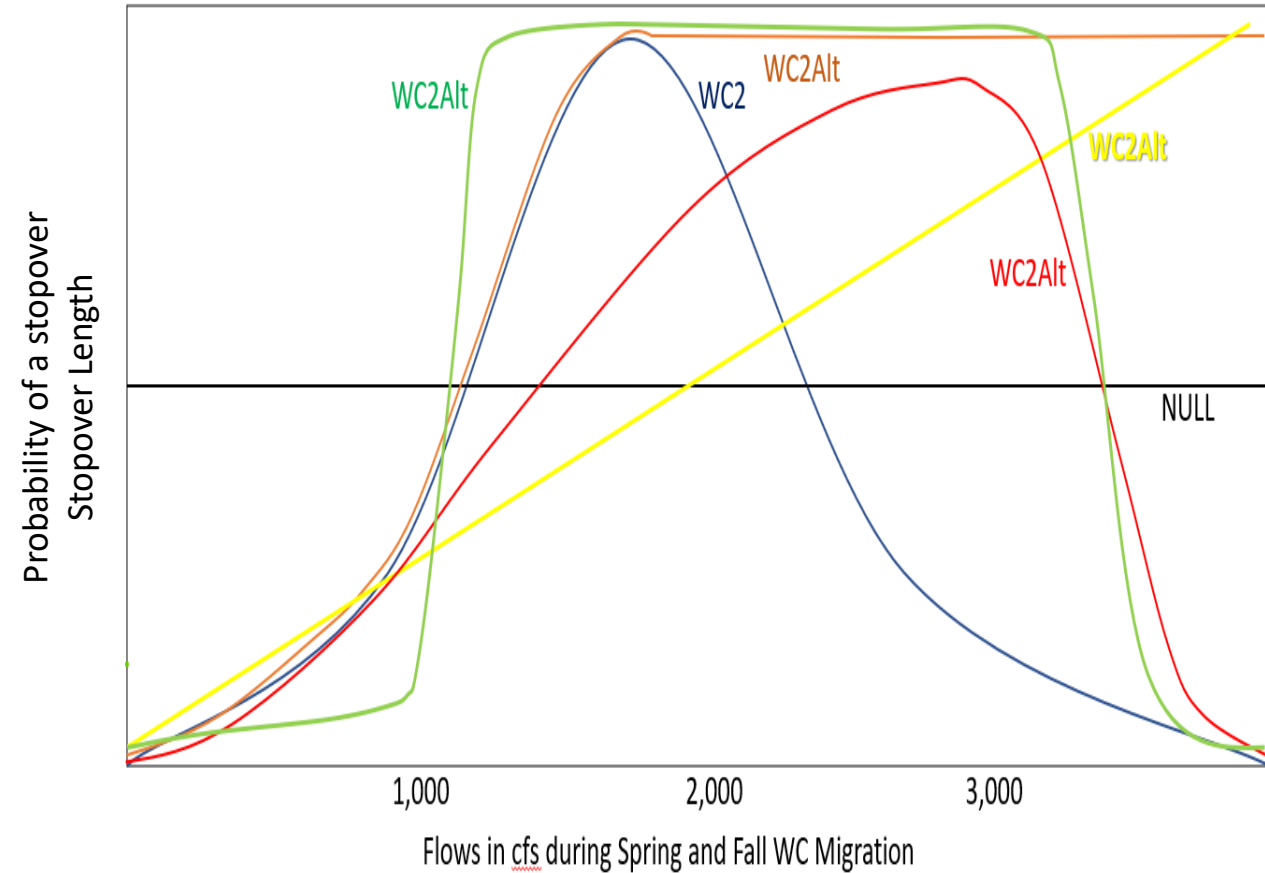
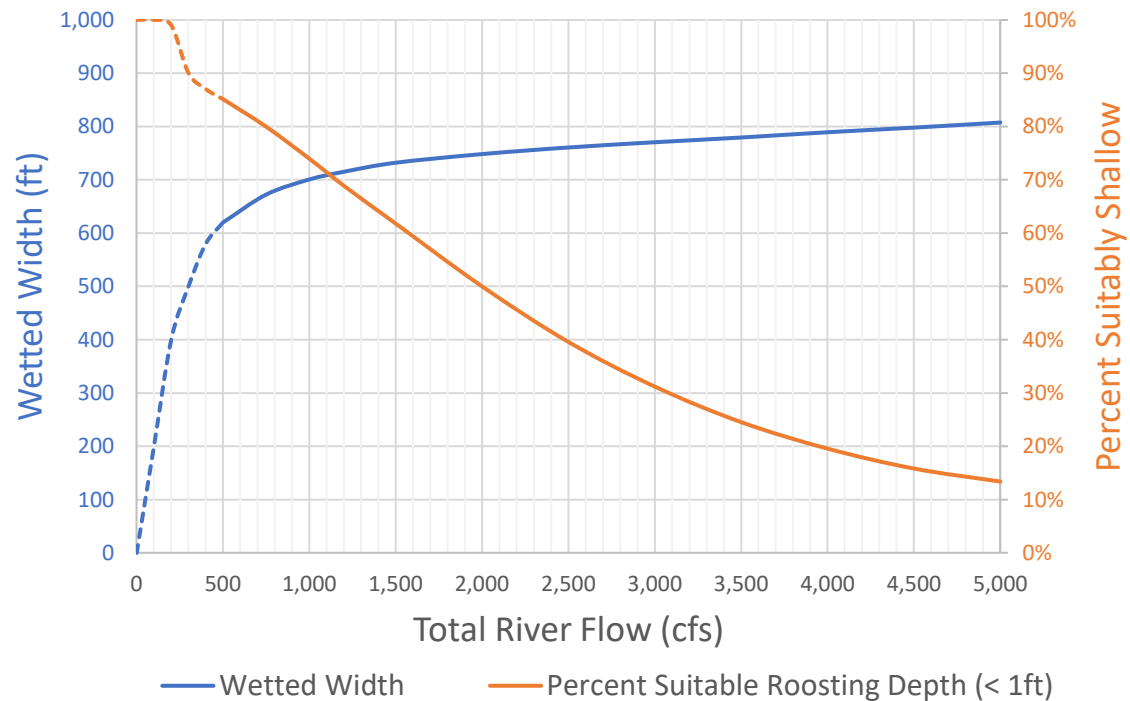


# Big Question: Is sediment augmentation necessary to create and/or maintain suitable whooping crane habitat?



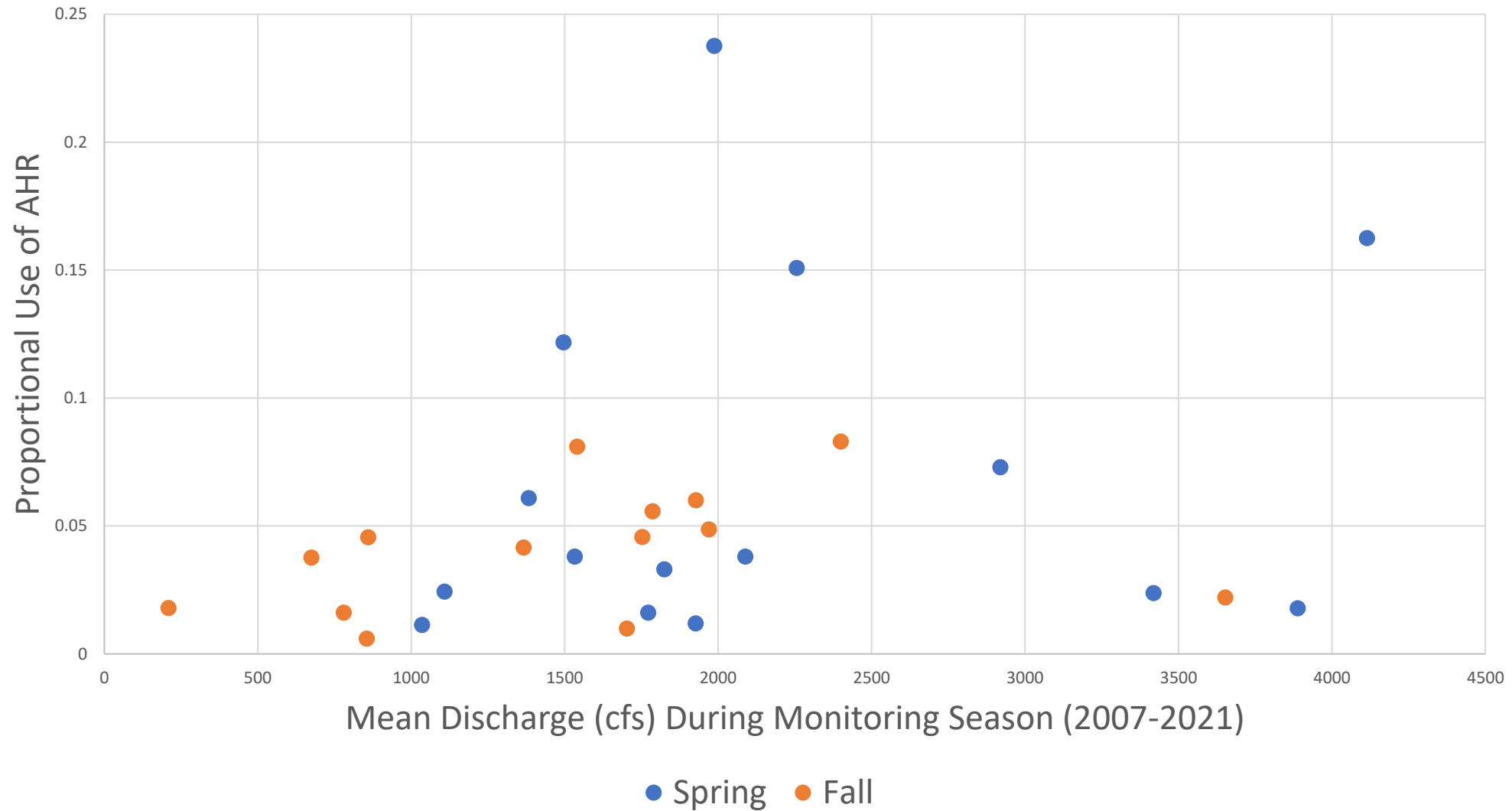
Big Question: Does flow influence WC decision to stop or fly over the AHR?

Big Question: Does flow influence WC stopover length within the AHR?





# Big Question: Why is Spring WC use of the AHR greater than Fall use?

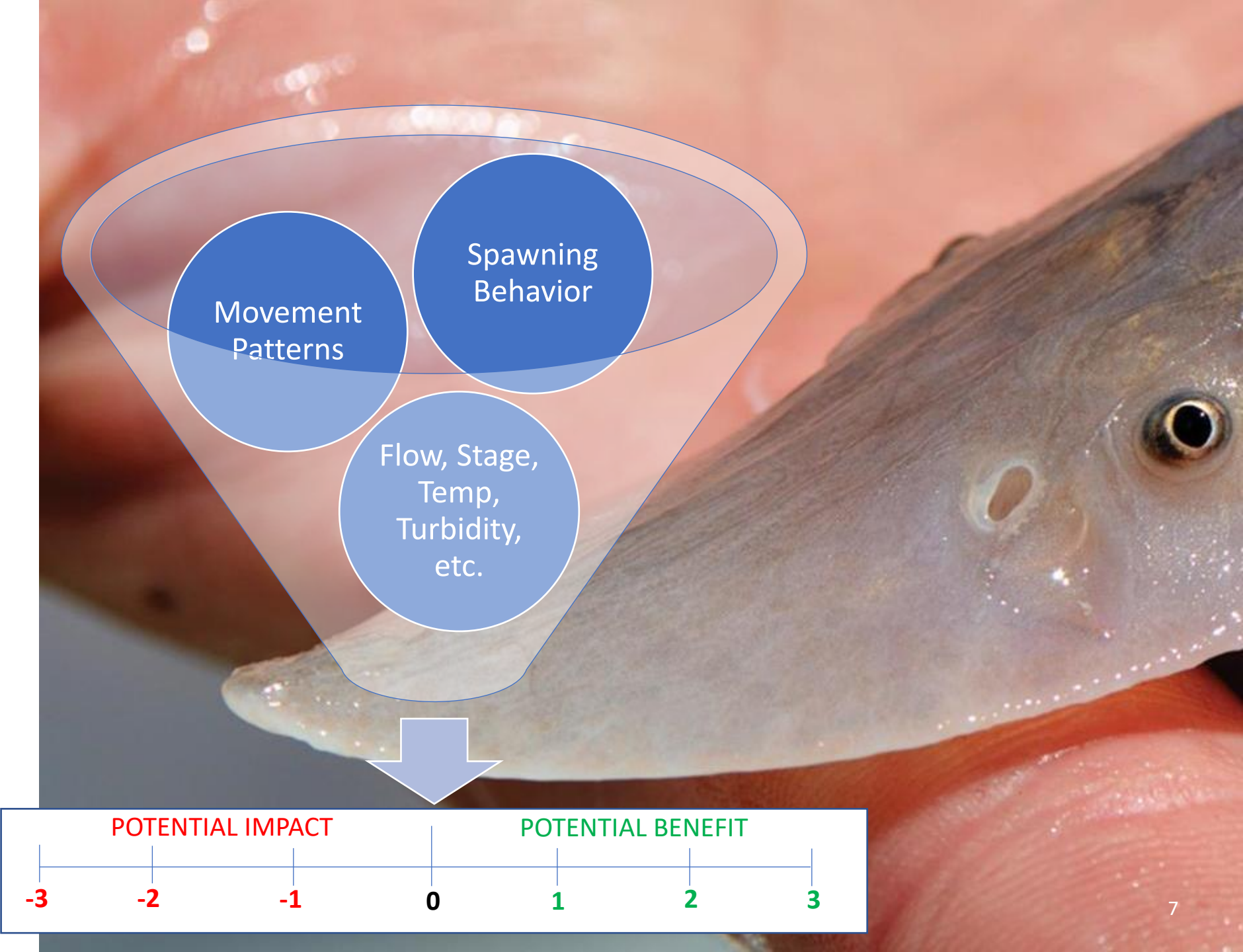


# Pallid Sturgeon

Step 1: Habitat,  
Spawning, & Genetic  
Research

Step 2: PRRIP Water  
Management Study

Step 3: PRRIP Water  
Management



# Monitoring and Maintenance Science for Piping Plover

- How much of an effect does predation have on PP productivity?





## Uncertainties Parking Lot

- AHR contribution to WC fitness?
- Importance of the AHR to WC survival in the fall vs. the spring?
- Effect of hydro-stepping on WC use of the AHR?
- Contribution of Program water management to wet meadow hydrology?
- How important is it to WC to use Program water to avoid fish-kill?
- How does the impact of predation on PP productivity change as sites age?
- Are there enough forage resources at off-channel nesting sites to maintain PP productivity?

# ***ADDITIONS? QUESTIONS?***

