

# Adaptive Management Working Group

## AMP Development

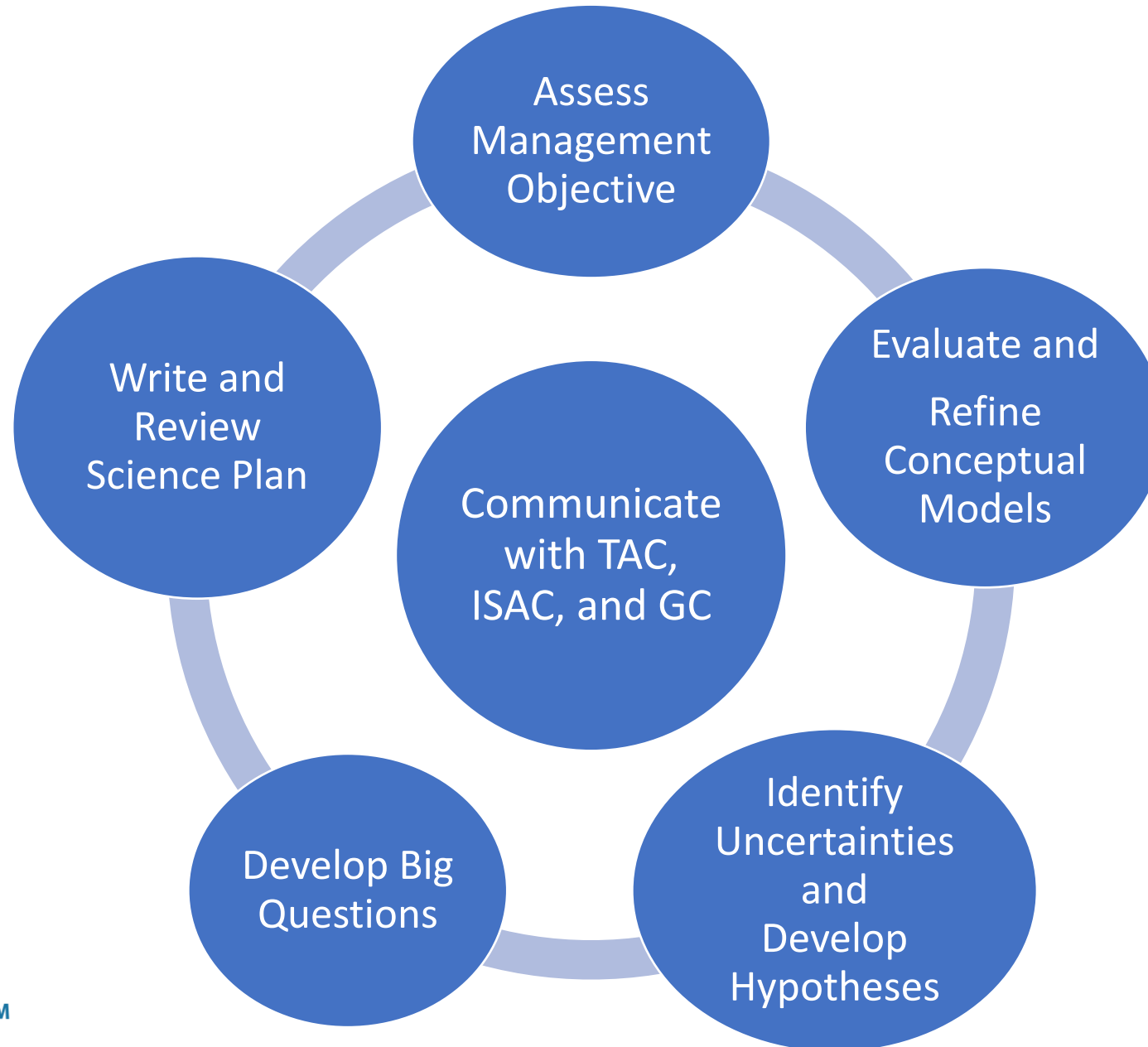
Malinda Henry – Science Lead, PRRIP EDO Staff

Dave Zorn – AMWG Tern and Plover Specialist, CNPPID

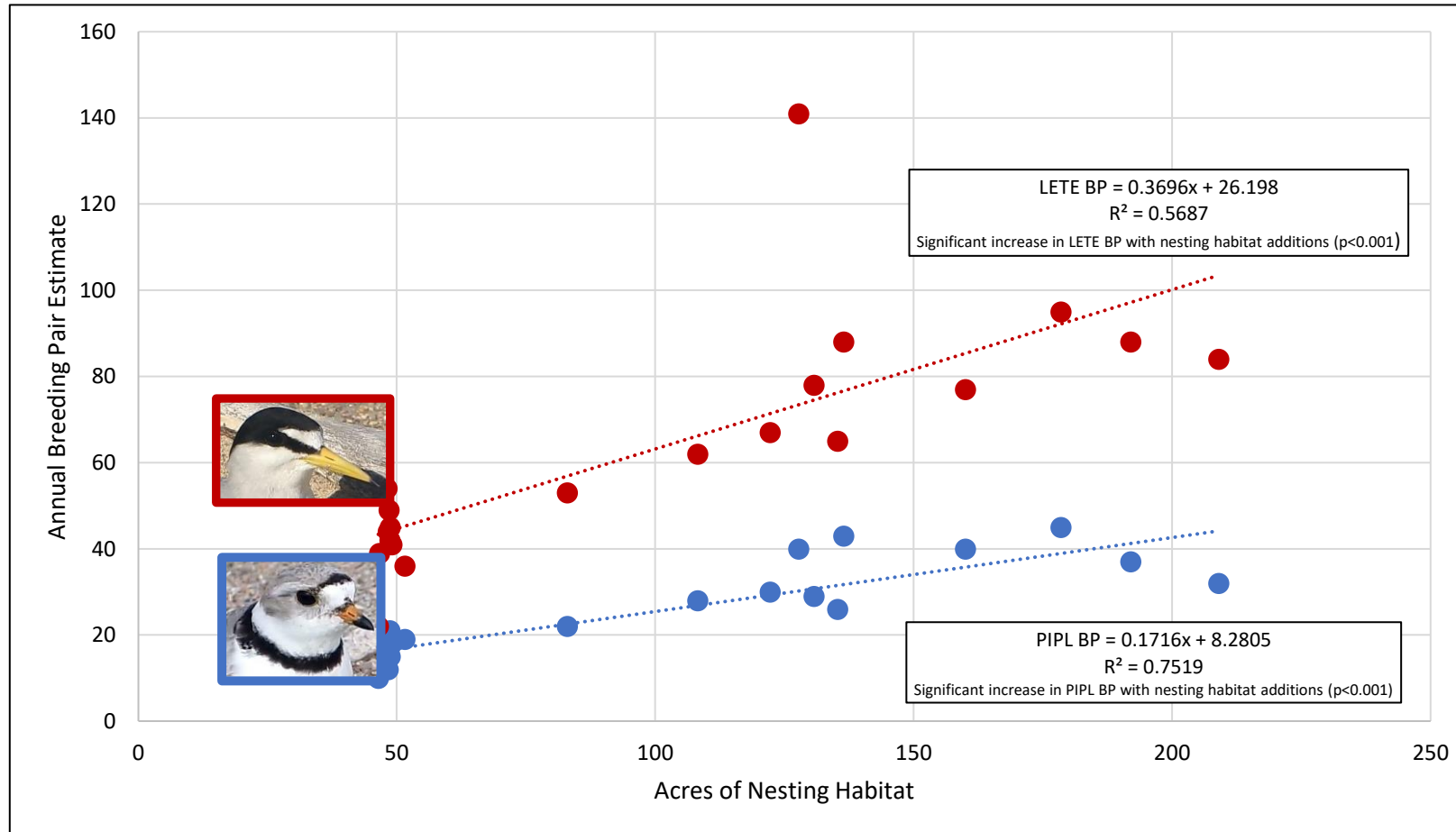
Matt Rabbe – AMWG Whooping Crane Specialist, USFWS



# Adaptive Management Working Group



# Management Objective: Improve production of Interior Least Tern<sup>★</sup> and Piping Plover from the central Platte River



## Piping Plover CEM

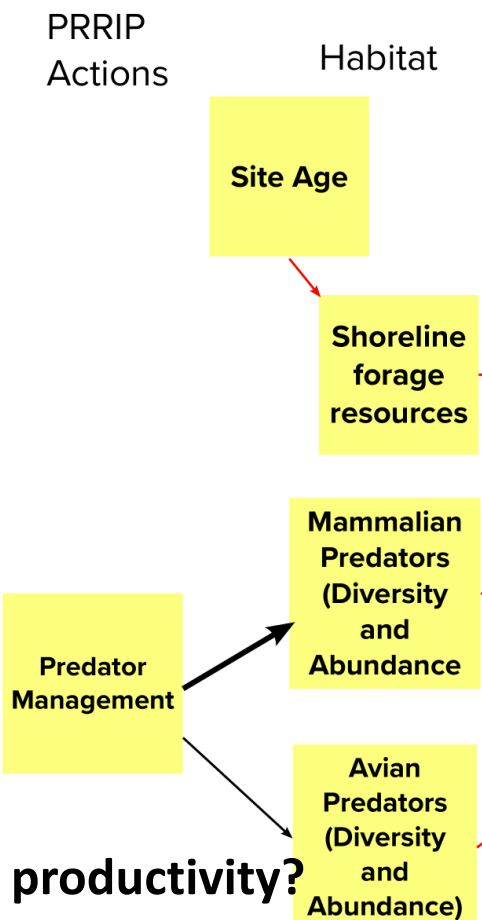
High Control - High Uncertainty →

Low Control - High Uncertainty →

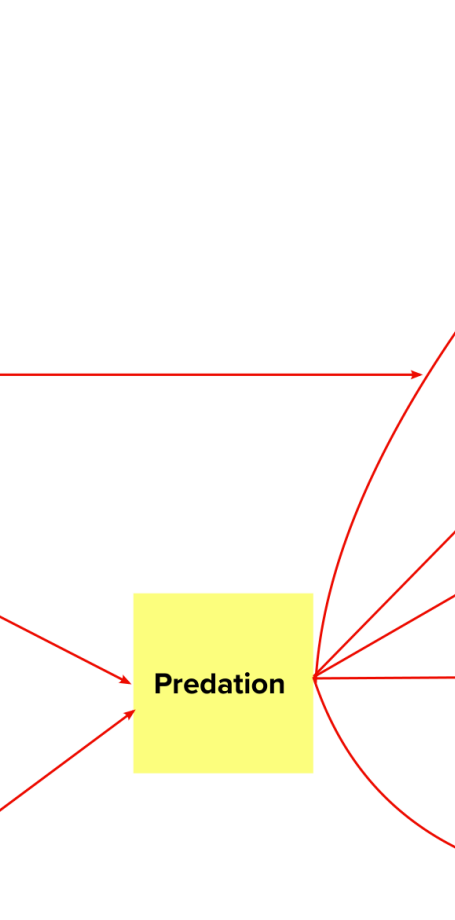
High Control - Low Uncertainty →

Low Control - Low Uncertainty →

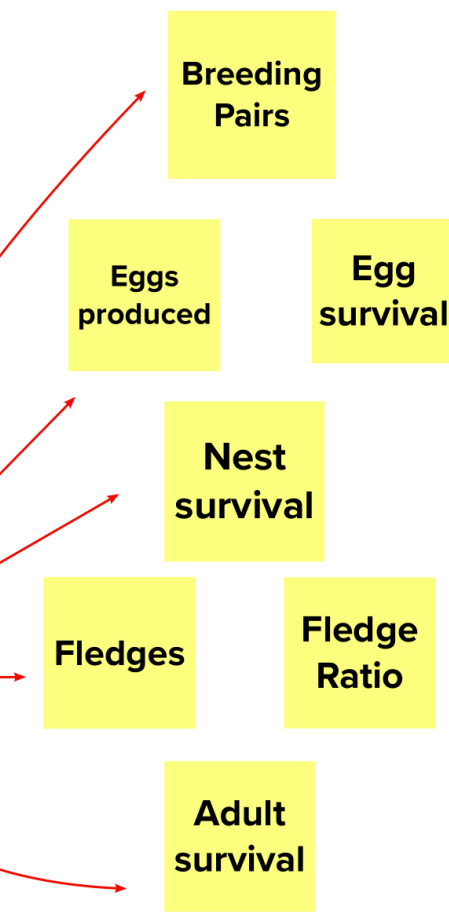
### Indirect Productivity Factors



### Direct Productivity Factors



### Performance Indicators

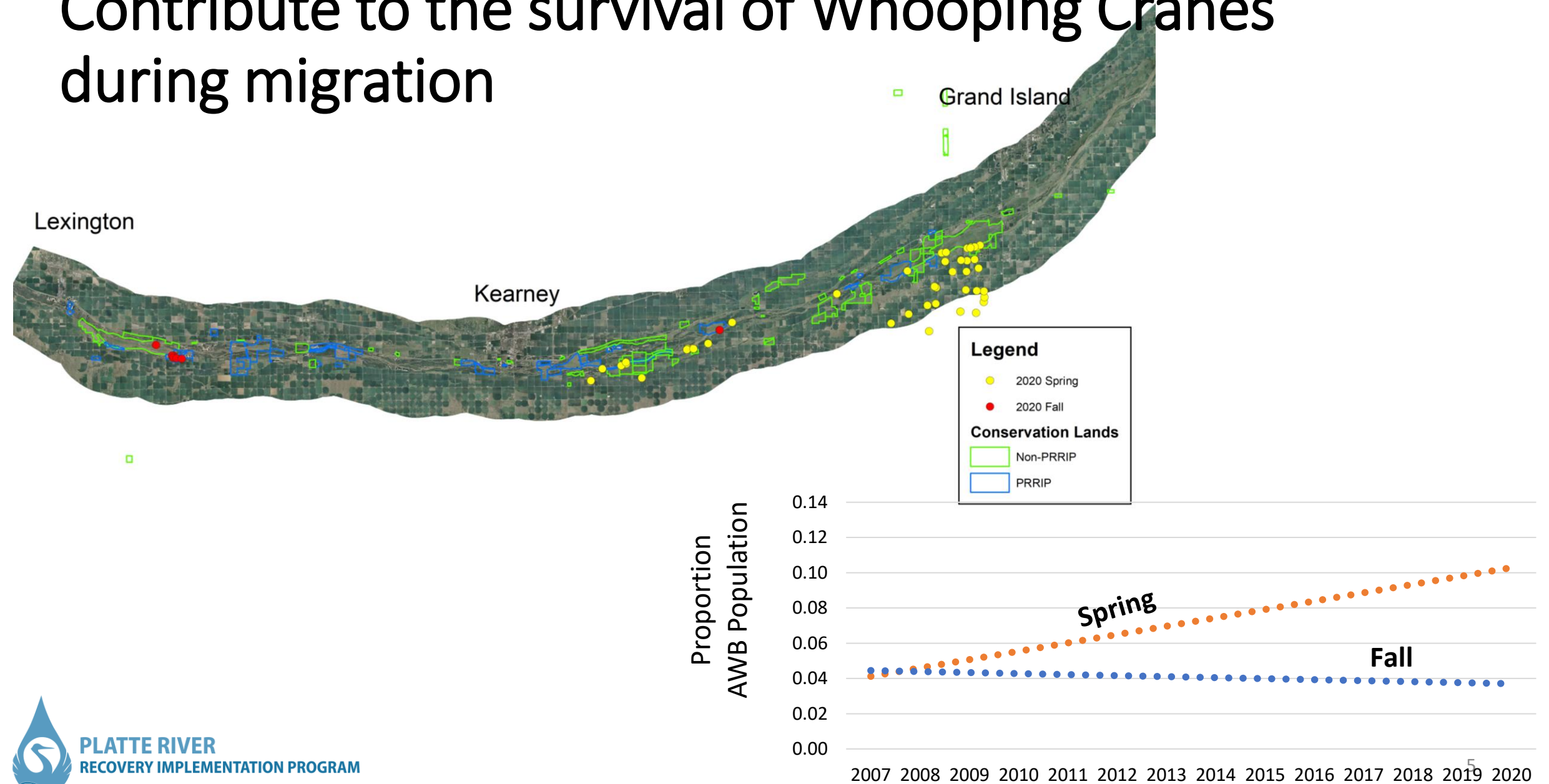


Q1: What are the impacts of predation on productivity?

Q2: What are the impacts of site age on productivity?



# Management Objective: Contribute to the survival of Whooping Cranes during migration





# Whooping Cranes - Potential Big Questions

1. Conditions associated with stopovers vs. flyovers?
2. Water maintenance of unobstructed channel width?
3. Are WC that stop along AHR more fit?
4. Conditions influencing length of stay?
5. Impact of hydrocycling on WC use of AHR?
6. Importance of AHR in Spring and Fall?



# Additional Potential Questions

## Phragmites

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

## Wet Meadows

1. How do Program flow releases influence wet meadow hydrology?
  - Where does it work and where doesn't it? Why?



# Other Species of Concern - Potential Questions

1. How does Program management influence other species of concern?
  - Program needs USFWS formal guidance on how to proceed with this question.



Notes: Regal Fritillary Female (left), image from Great Pains Nature Center. Regal Fritillary Male (right), image from Iowa State University.



Adapted from "Butterfly Garden.net."



# ***Additions from other AMWG members?***

## ***QUESTIONS?***

