

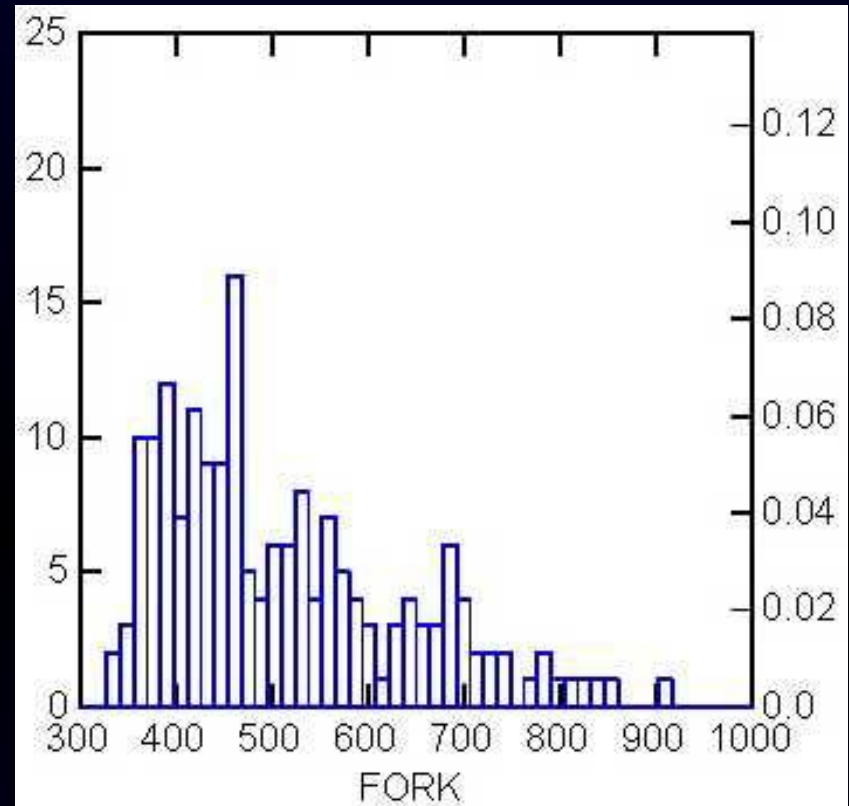
# Delta Cross Channel Adult Salmon Fyke Trapping



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Funded by CALFED  
and  
The Interagency Ecological Program**

# Methods

- Acoustics (Horn)
- Sampled between 9/4/01 and 11/15/01
- Three fykes in DCC, two in GS, and two in Sac
- Daily passage estimates
- All adult fish were tagged with Floy<sup>®</sup> T-Bar Anchor Tags
- Predation assessment (Kohlhorst, McIntire)



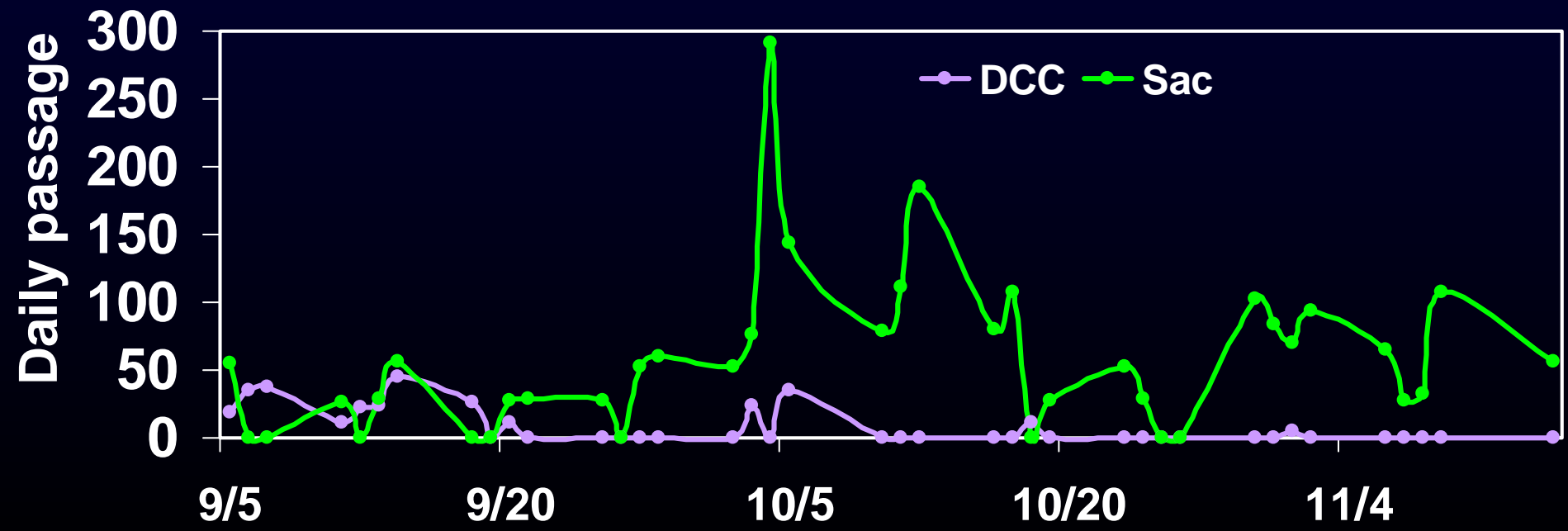
# Hypothesis

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Fewer adult chinook migrated through the DCC than the Sacramento River during the fall of 2001









**Sac**

**Catch = 80**

**Mean Passage = 57.3/day**

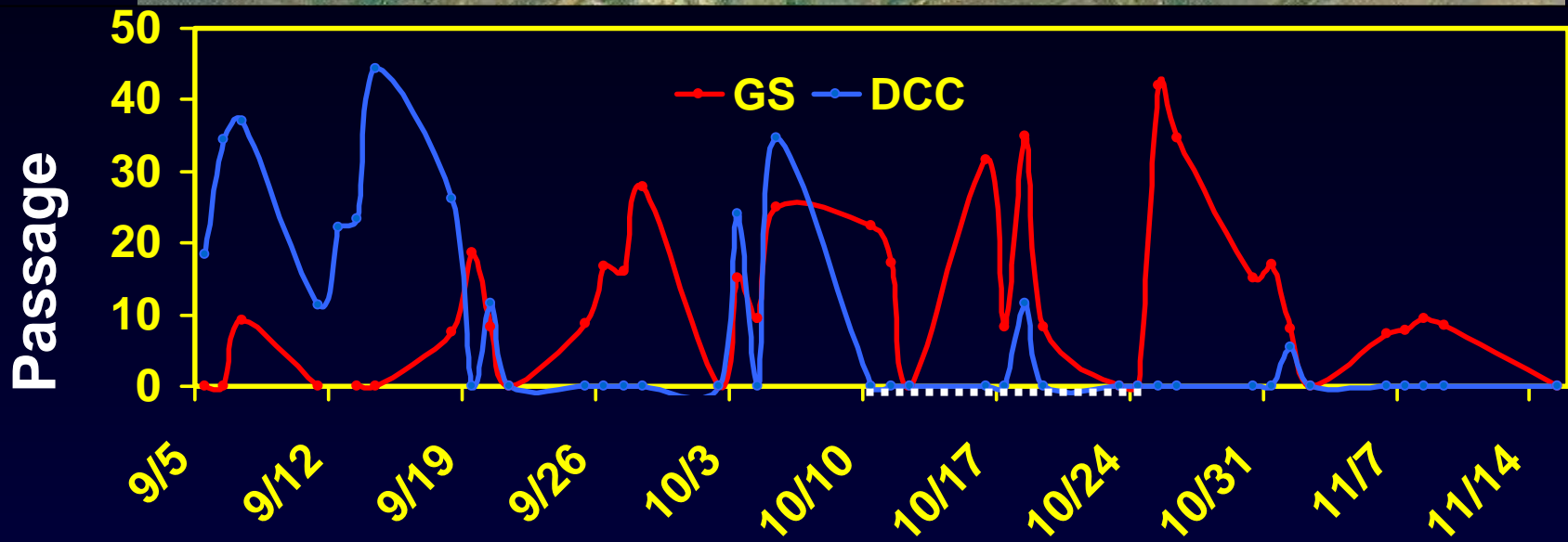
**DCC**

**Catch = 21**

**Mean Passage = 7.8/day**

**Paired *t* test\*     $t = -5.0, p < 0.001, n = 39$**

**\* Paired *t* test performed with log<sub>10</sub> transformed data**





# Hypothesis

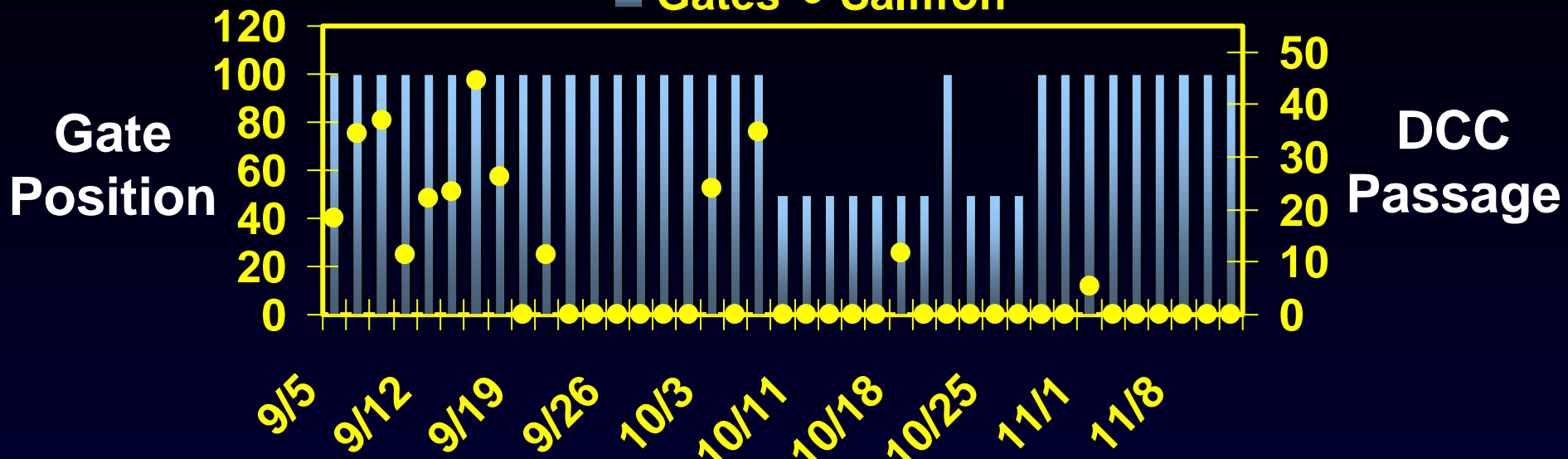
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The abundance of adult salmon in the DCC was lower when the gates were closed than when they were open during the fall of 2001





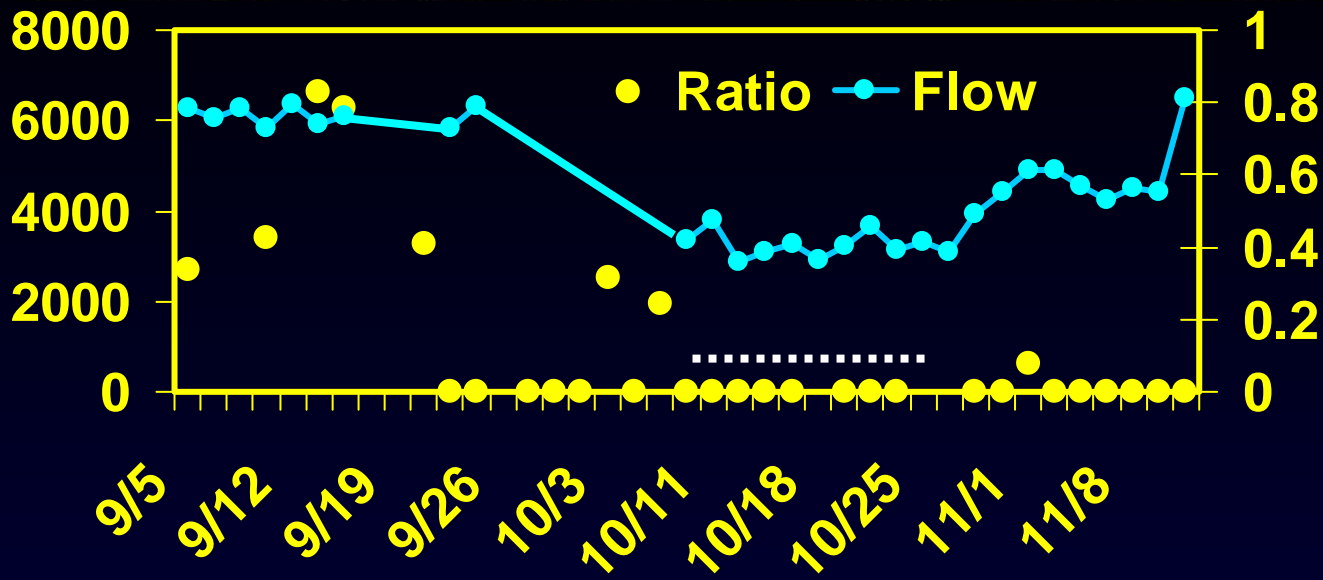
■ Gates ● Salmon



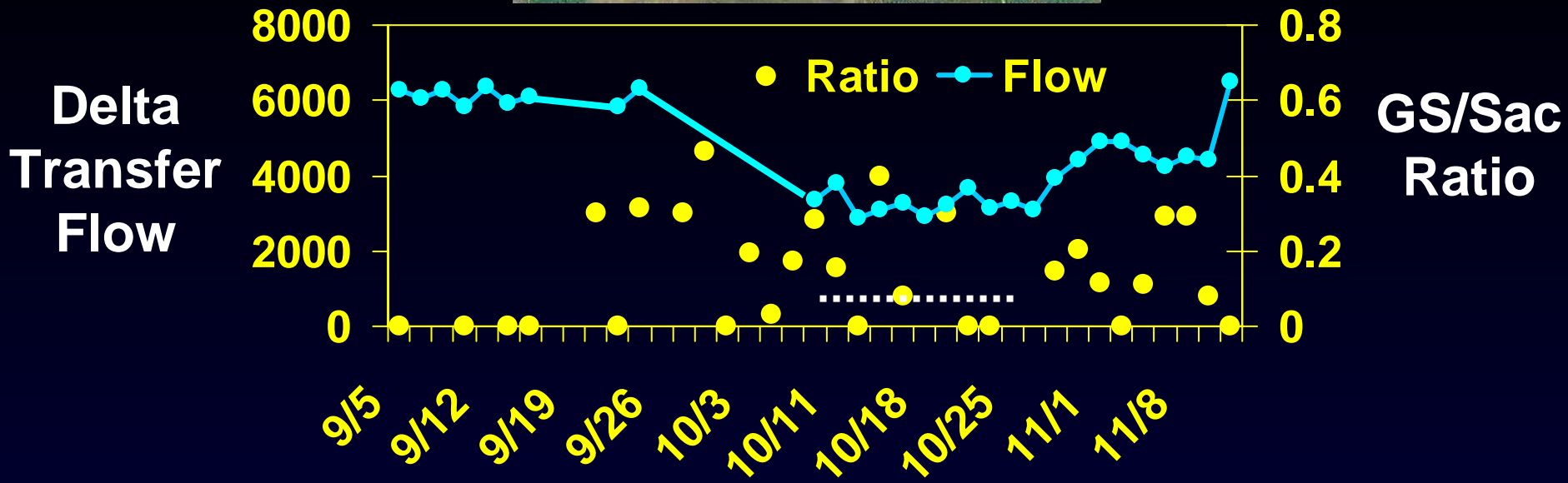




**Delta  
Transfer  
Flow**



**DCC/Sac  
Ratio**





# Predator Abundance

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- **353 black bass tagged**  
59 recovered
- **119 salmon tagged**  
0 recovered
- **109 striped bass tagged**  
0 recovered
- **100 redear sunfish tagged**  
0 recovered
- **22 Sacramento sucker tagged**  
0 recovered
- **11 white catfish tagged**  
0 recovered

# Predator Abundance

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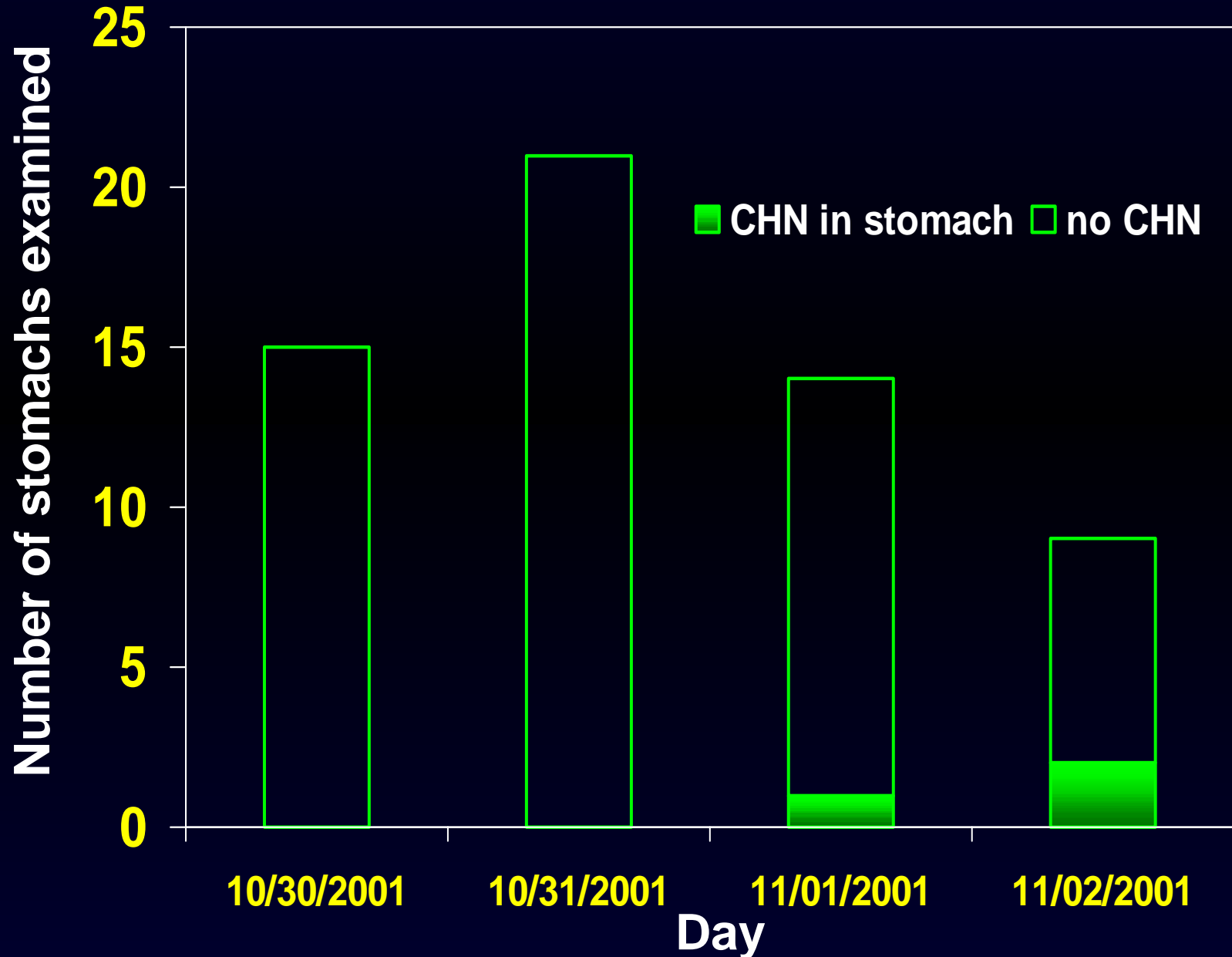
Local black bass population estimate based on multiple census (Schumacher and Eschmeyer's estimate) = 1,153  
95% confidence interval = 1,009 to 1,345





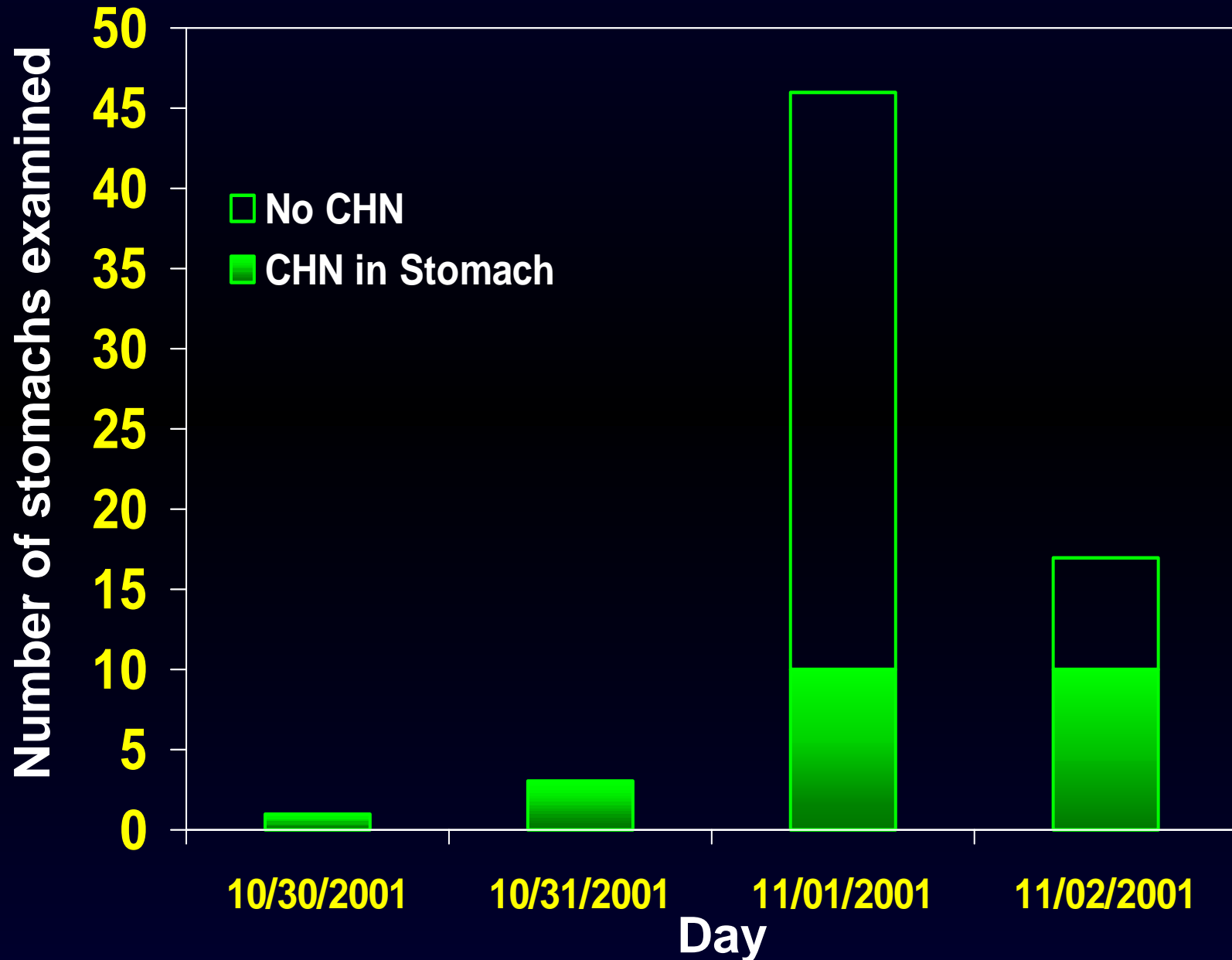


# Predation by Black Bass





# Predation by Striped Bass



# Predation

