

**Nevada Department of Wildlife**



# **Lake Mohave Habitat Enhancement Project**

**Mitch Urban  
Lake Mohave Biologist  
2015 C.R.A.B. Meeting**

EXPERIENCE NEVADA'S WILDLIFE

# 2014 Accomplishments

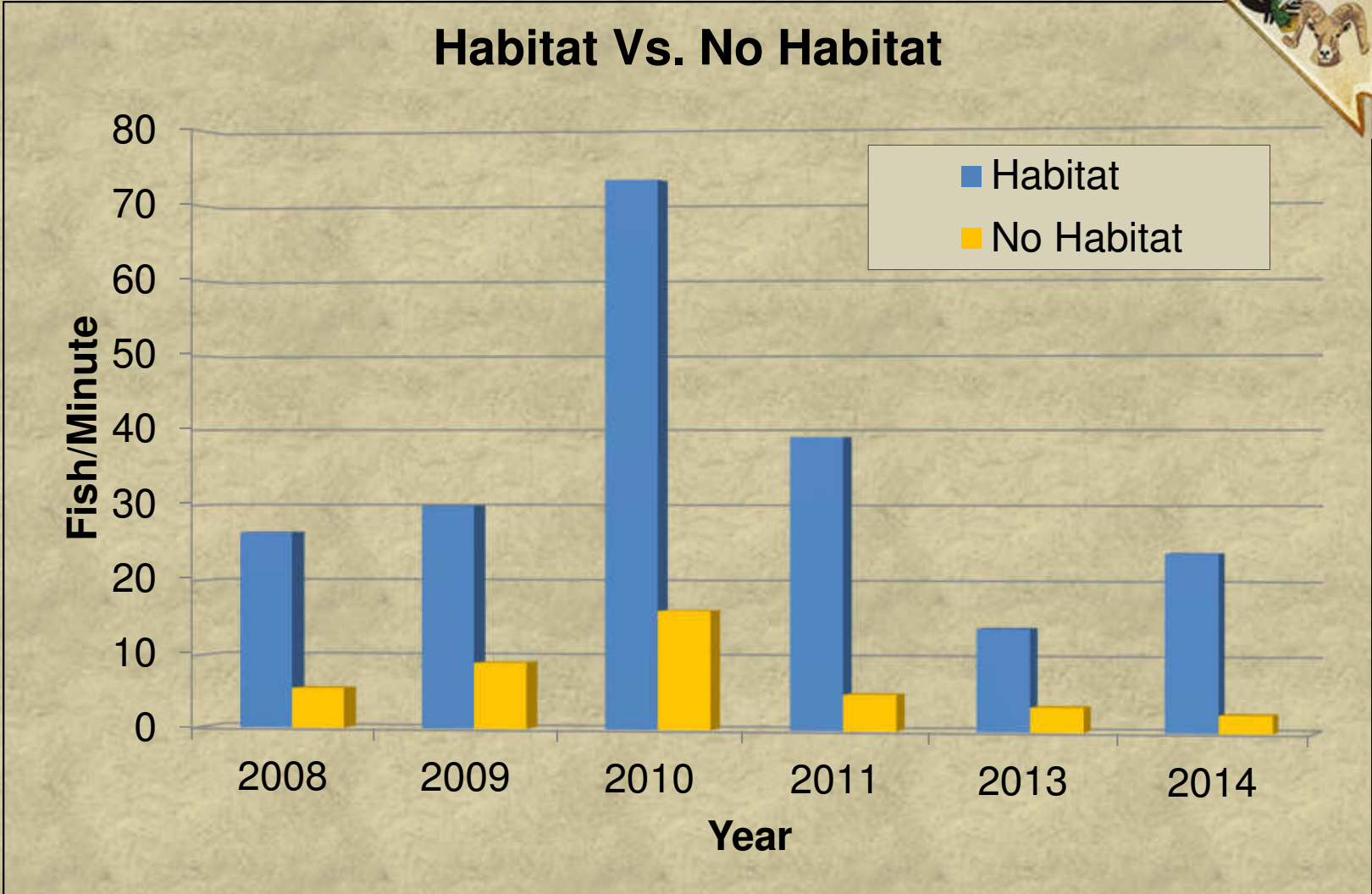
- Placed 18 PVC structures, 19 poly shrubs and 50 brush bundles
  - Total To Date
    - 173 assorted brush bundles
    - 96 PVC Structures
    - 88 pallet and brush A-frames
    - 24 pallet structures
    - 24 Poly Shrubs
    - 25 loads of Christmas trees Approx. 625 trees
- 54 SCUBA surveys and 21 snorkel surveys
  - SCUBA surveys every month
  - Snorkel surveys June - Nov
- Electro-shocked 3 habitat sites and 2 non-habitat sites in the fall



# SCUBA Survey Results



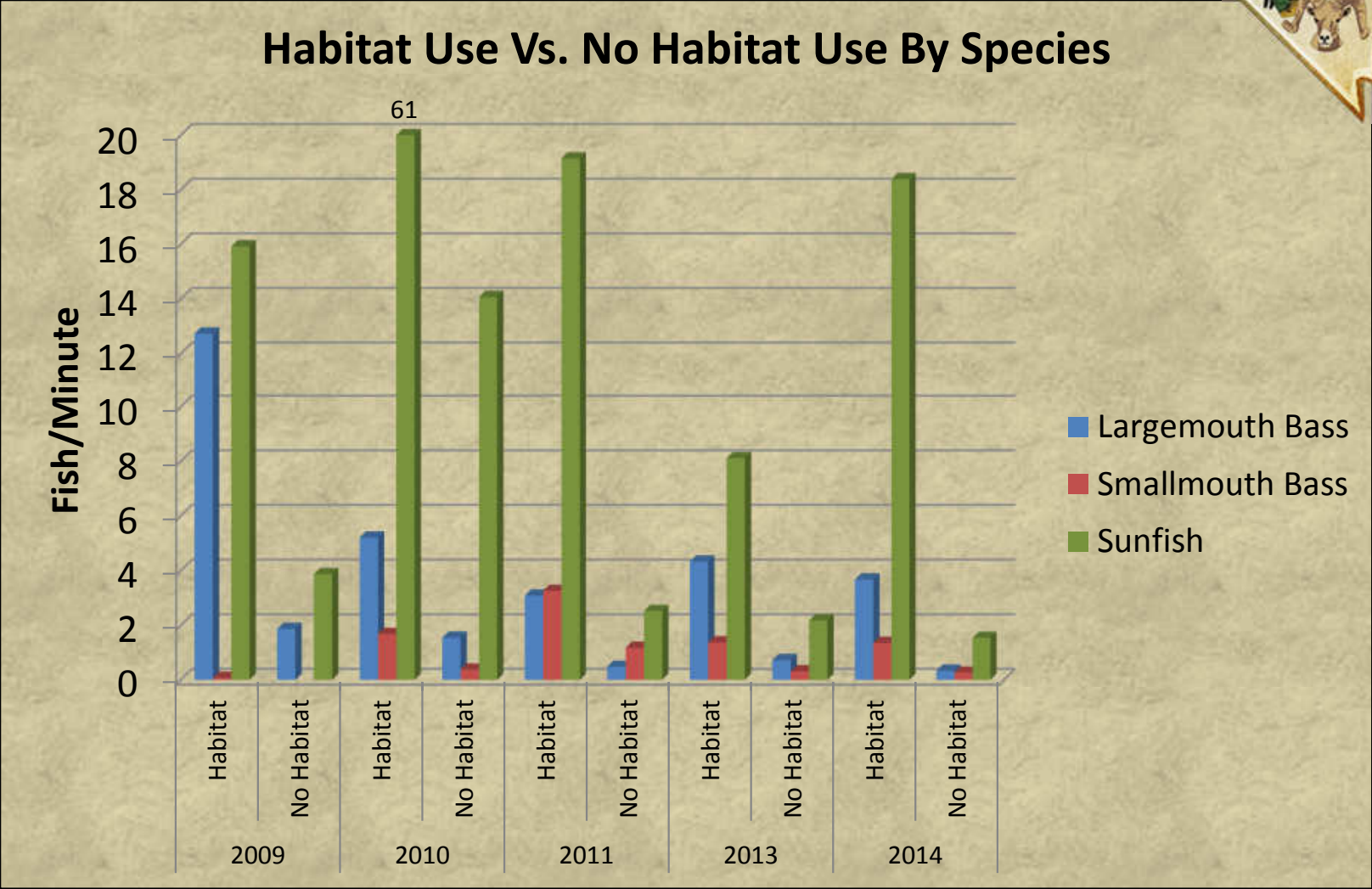
### Habitat Vs. No Habitat



# SCUBA Survey Results



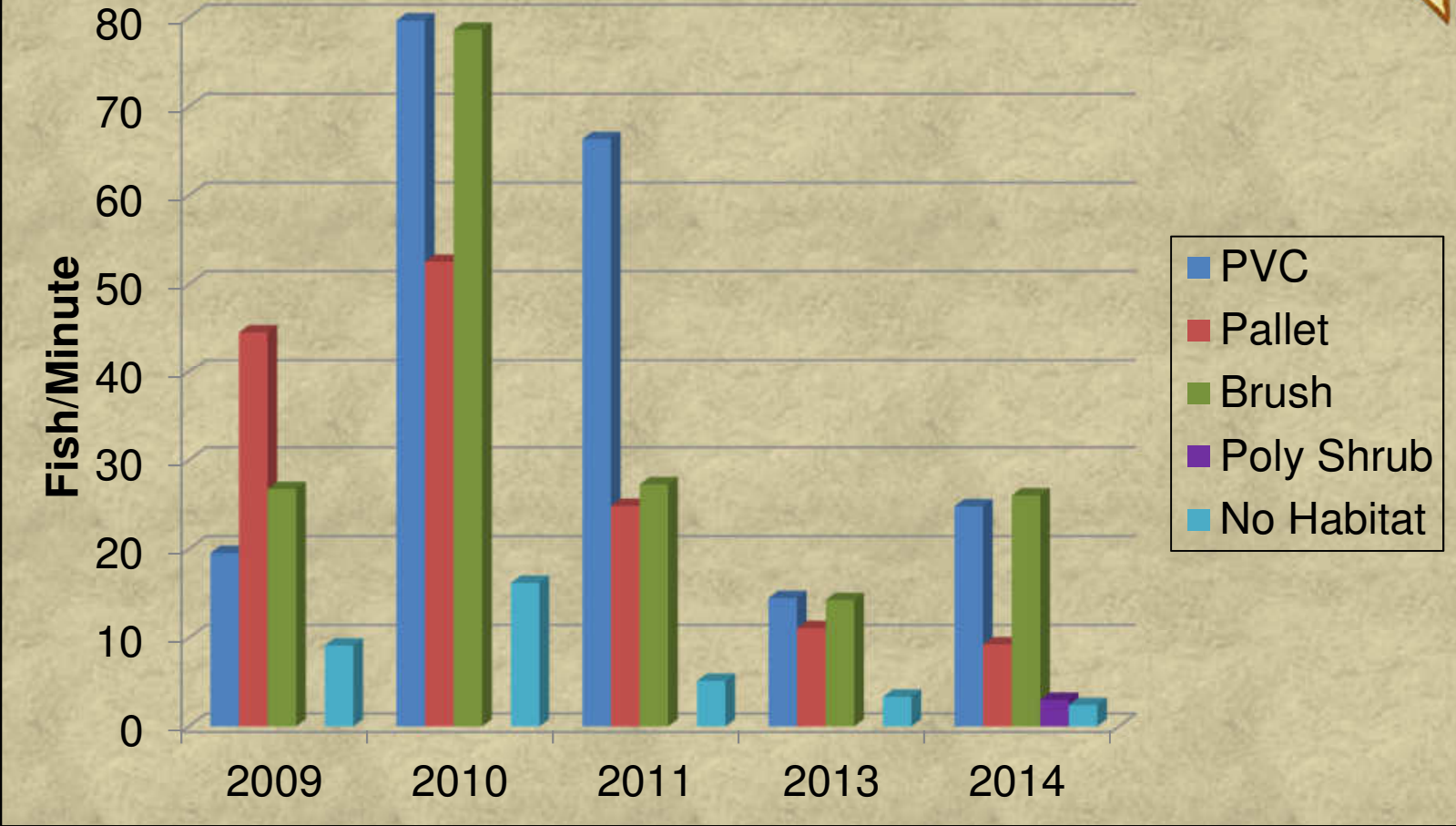
## Habitat Use Vs. No Habitat Use By Species



# SCUBA Survey Results



### Fish Use by Habitat Type



# SCUBA Survey Results



Brandon Senger



Poly Shrubs



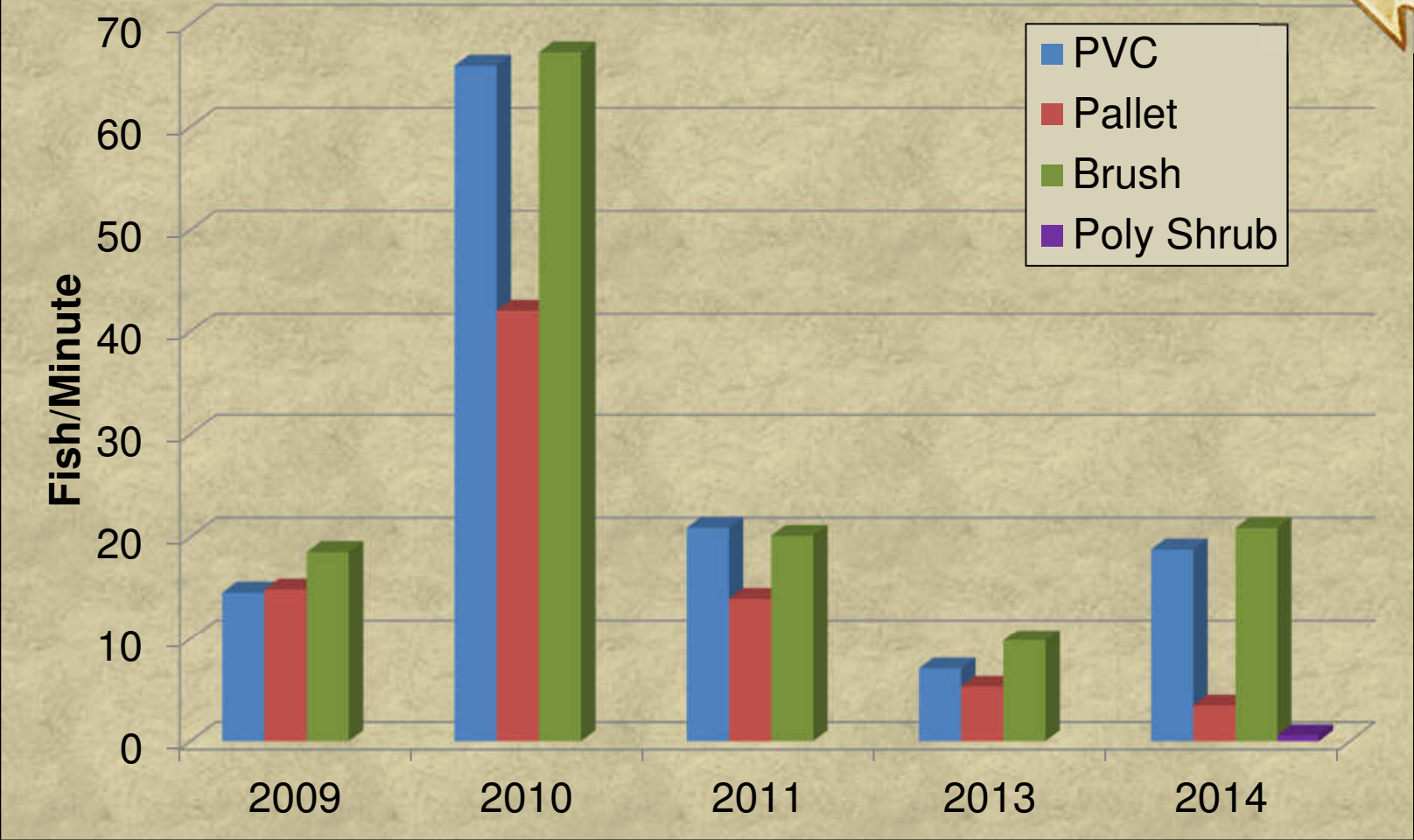
Brandon Senger

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# SCUBA Survey Results



## Sunfish Use by Habitat Type

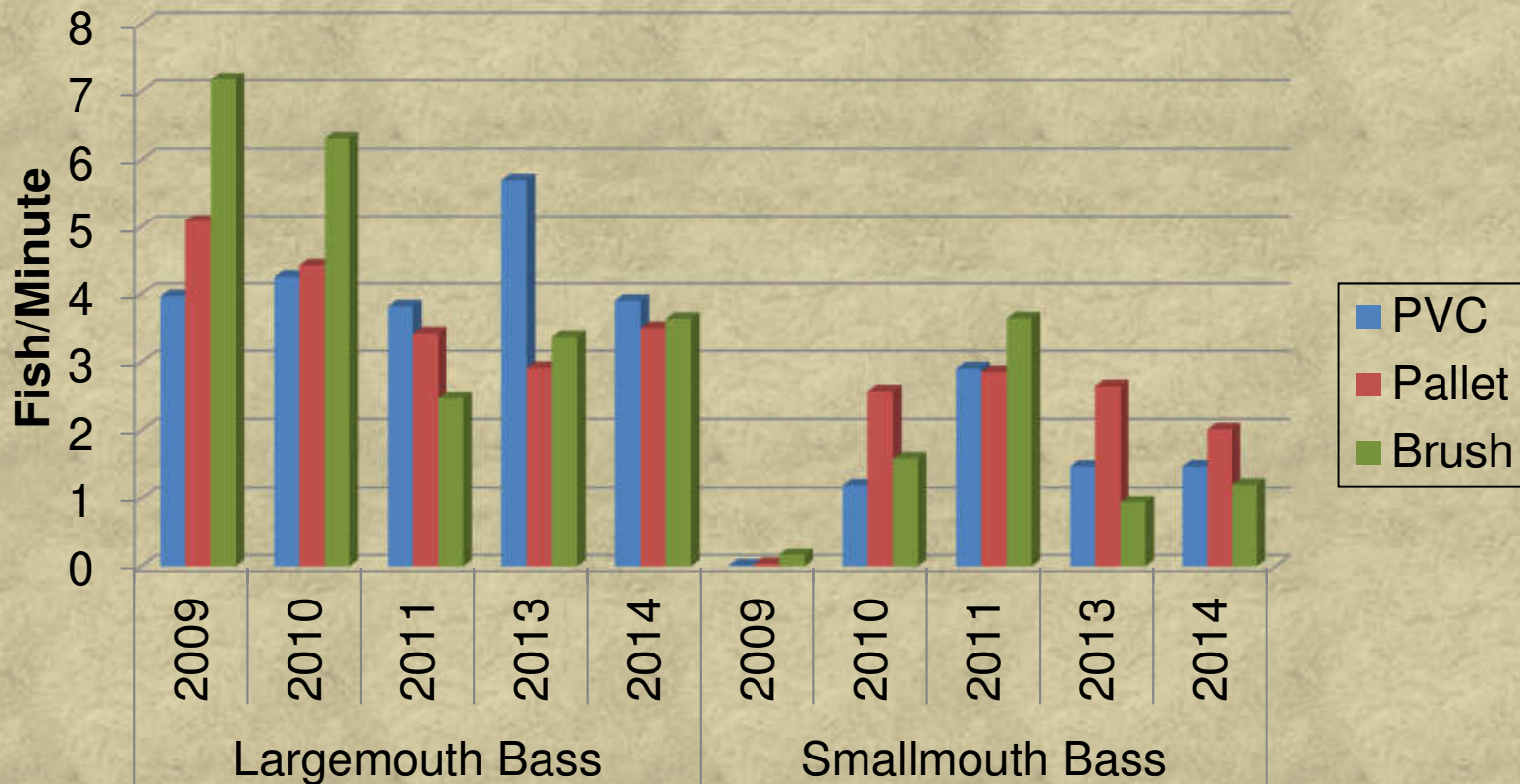


# SCUBA Survey Results

Is there a preference over habitat type by species?



## Largemouth Bass and Smallmouth Bass Use by Habitat Type

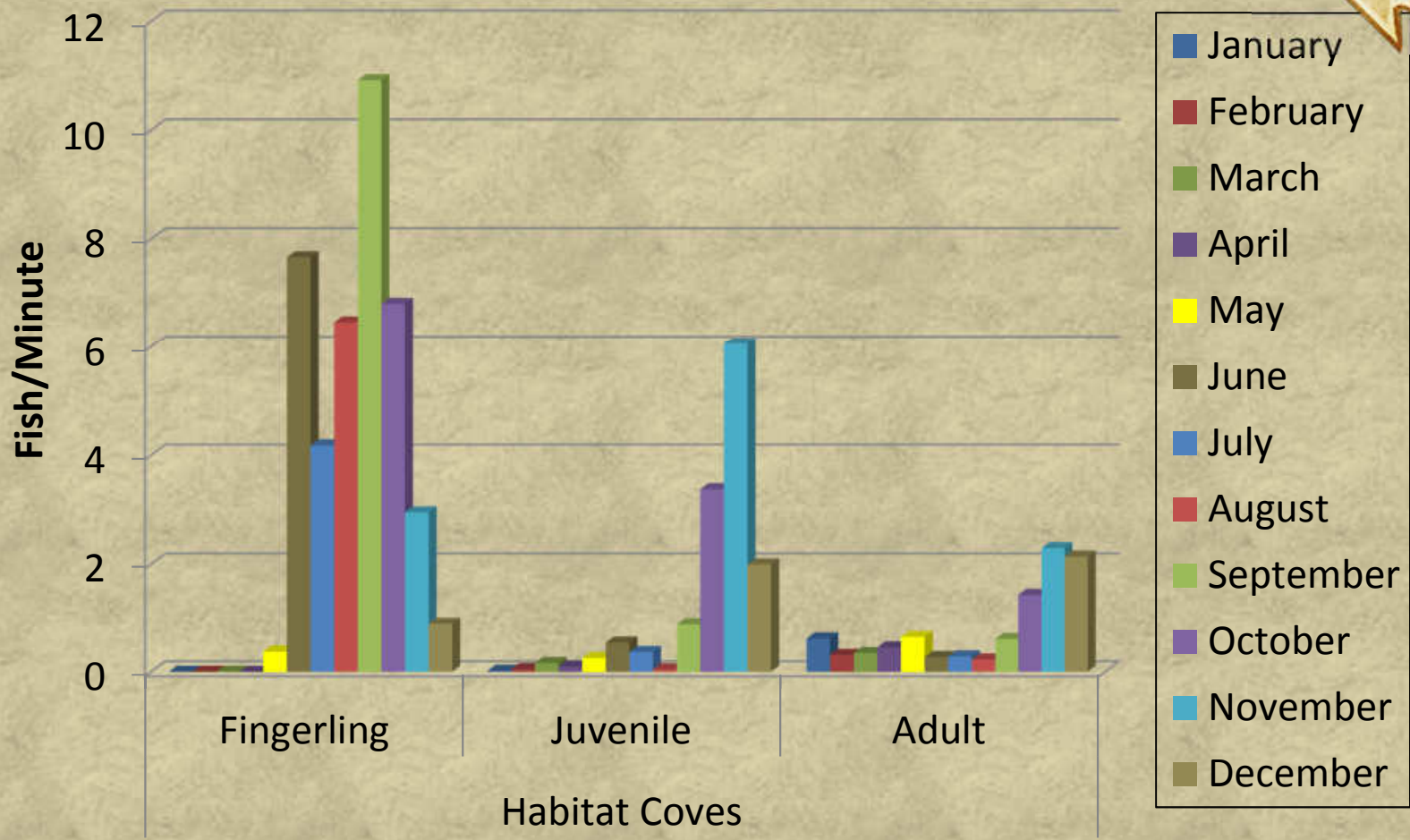




# SCUBA Survey Results



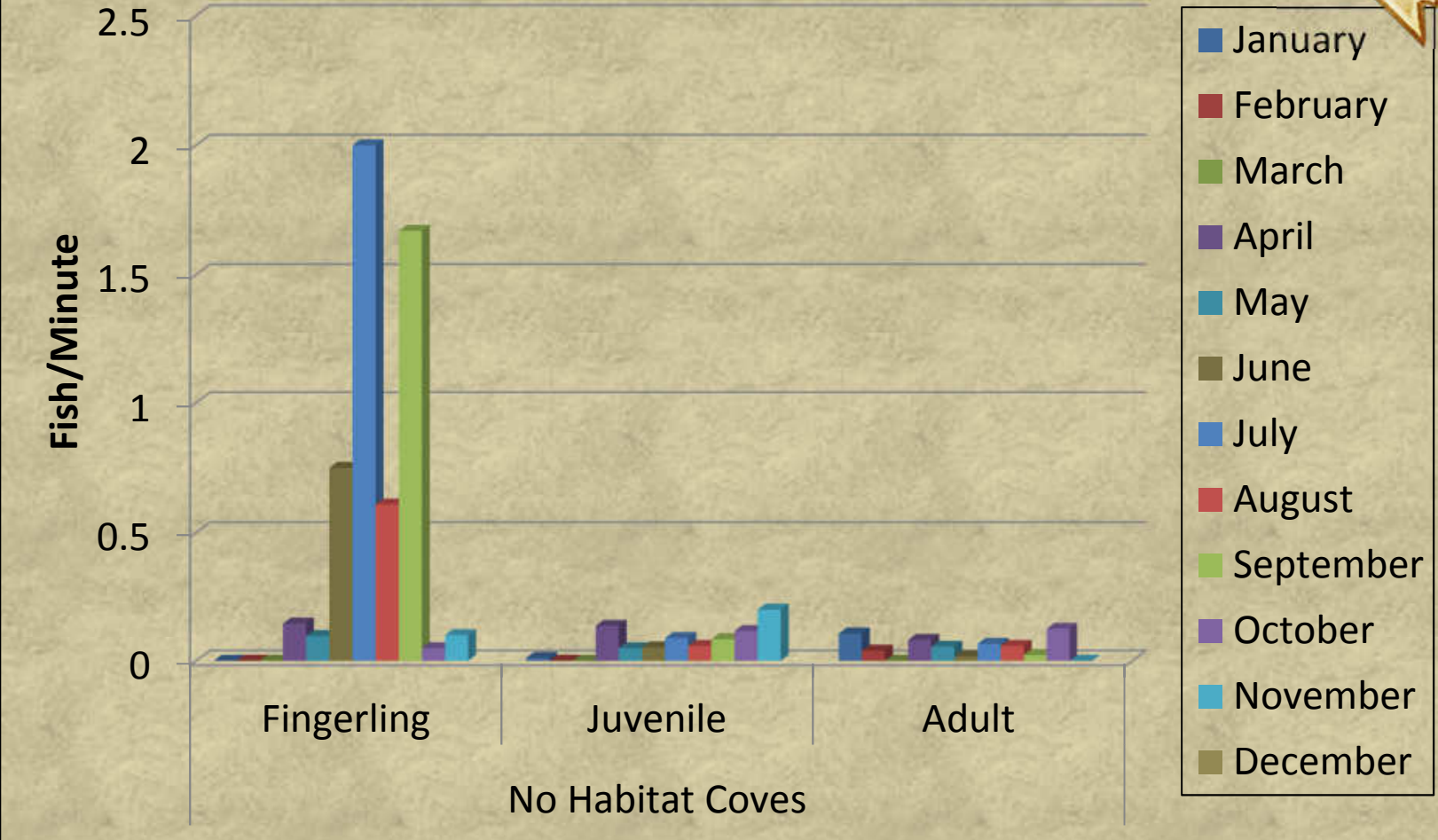
## Black Bass Use by Month in 2014



# SCUBA Survey Results



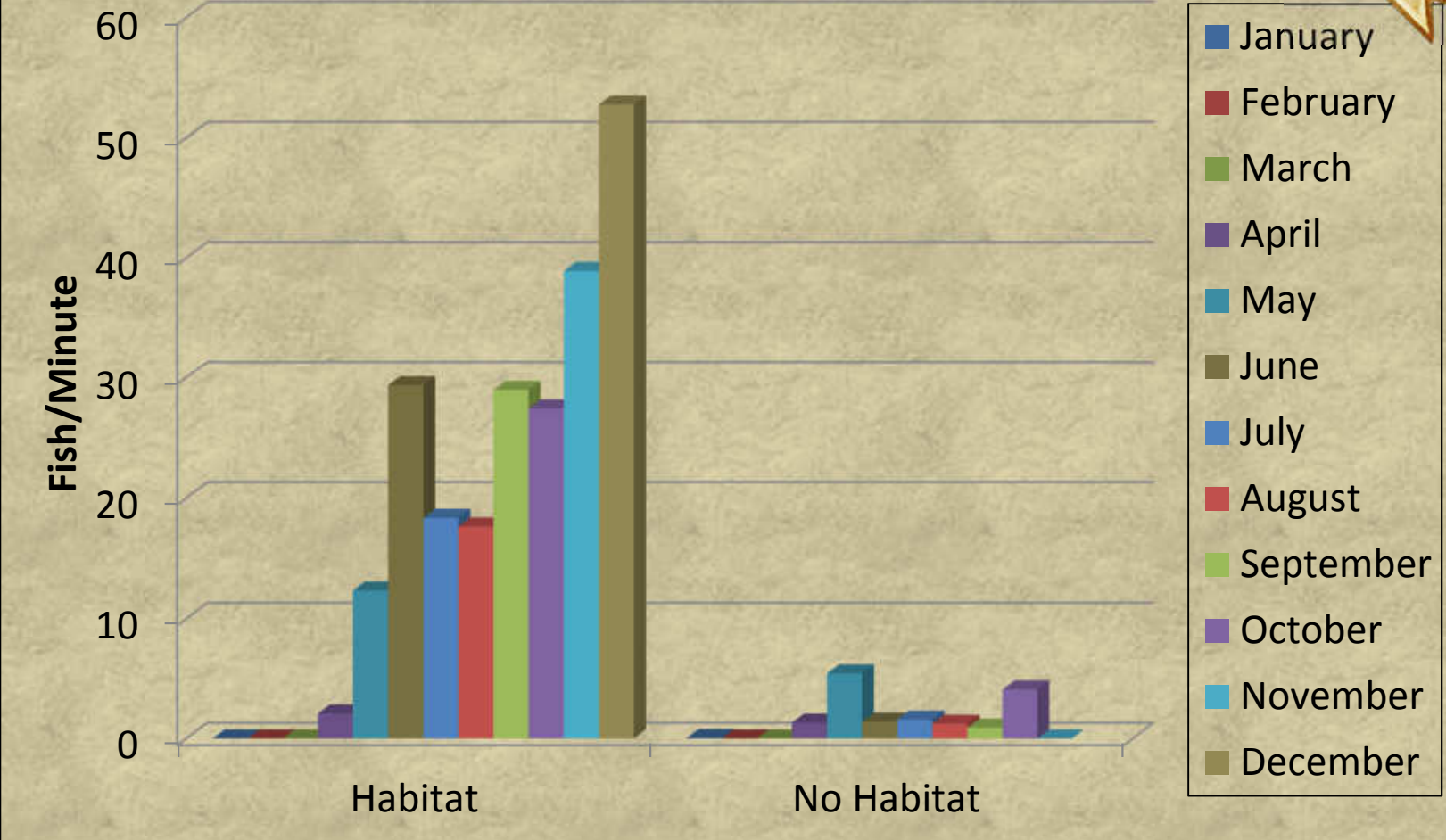
## Black Bass Use by Month in 2014



# SCUBA Survey Results



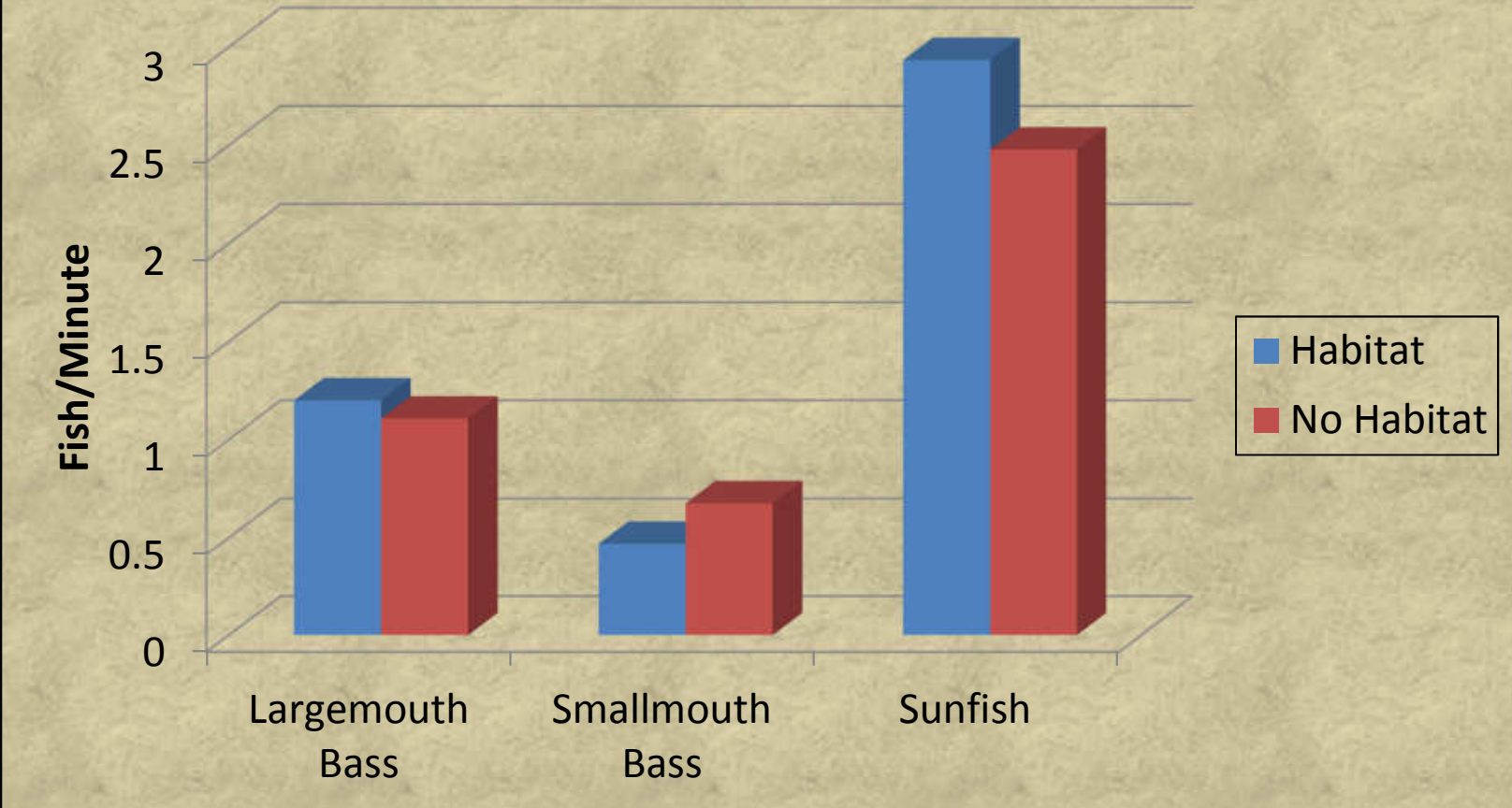
### Sunfish Use by Month in 2014



# Snorkel Survey Results



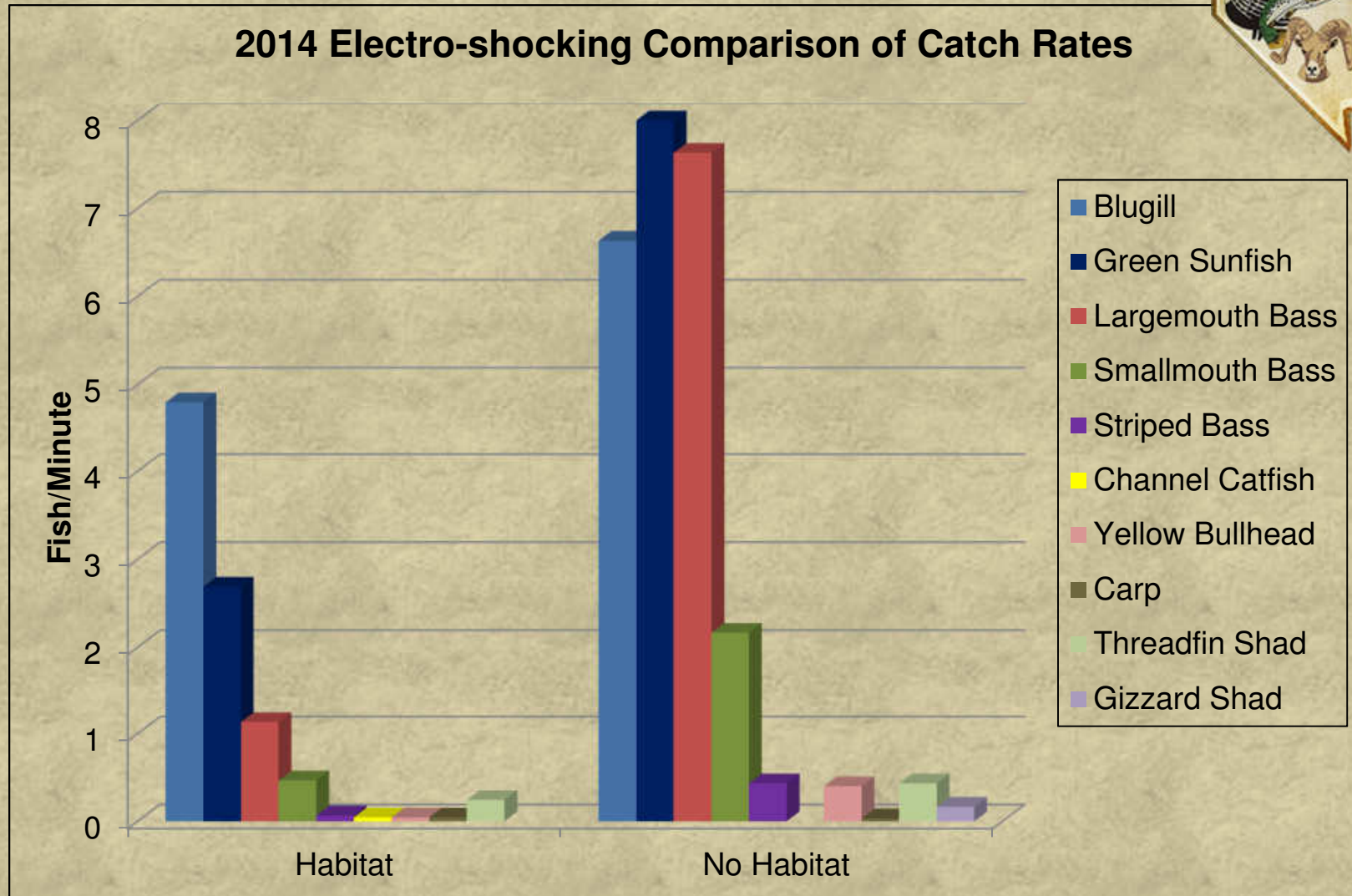
### Fish Counts in Habitat Coves Vs. No Habitat Coves In 2014 From Snorkeling



# Electro-shocking Survey Results



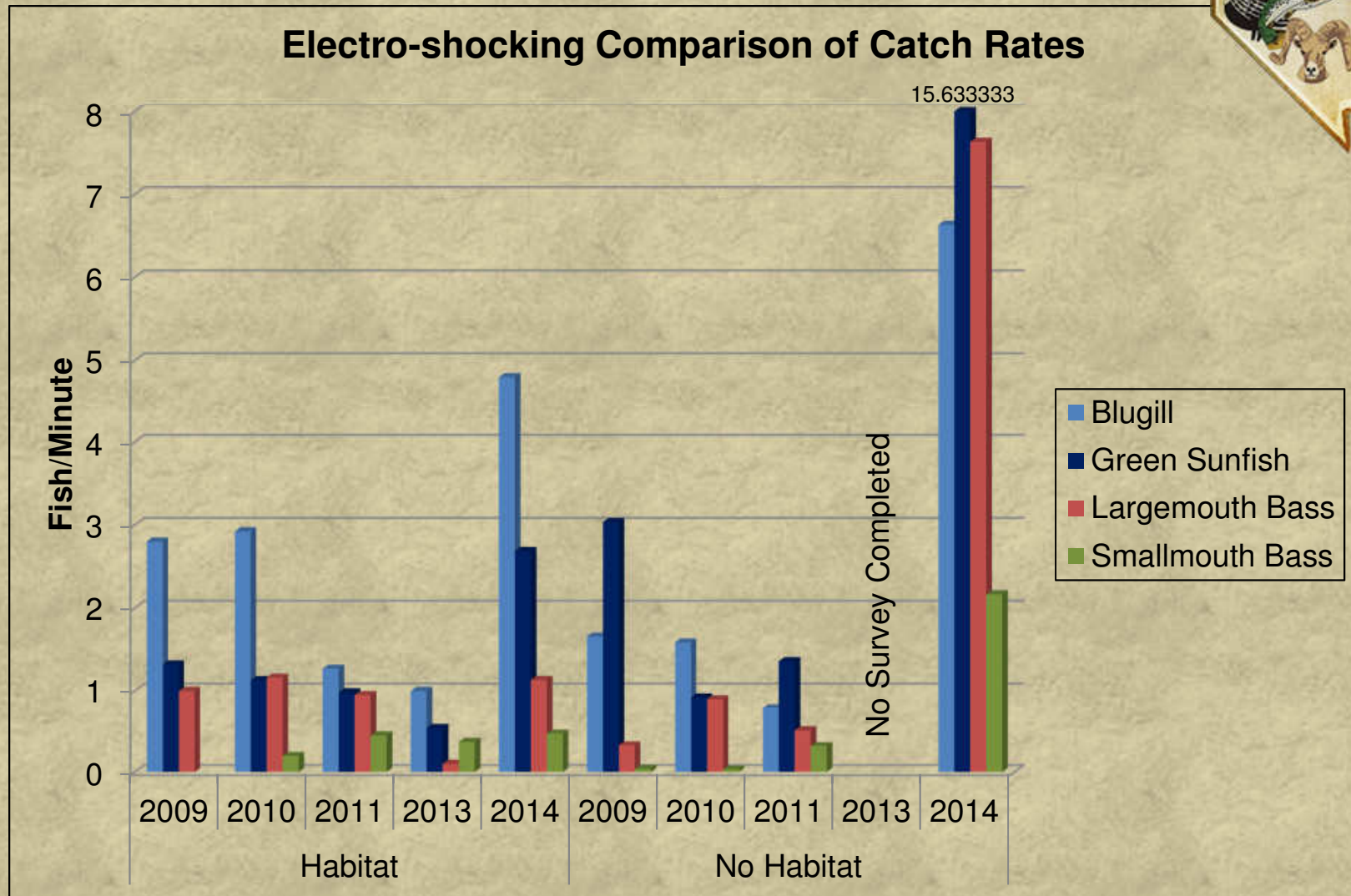
## 2014 Electro-shocking Comparison of Catch Rates



# Electro-shocking Survey Results



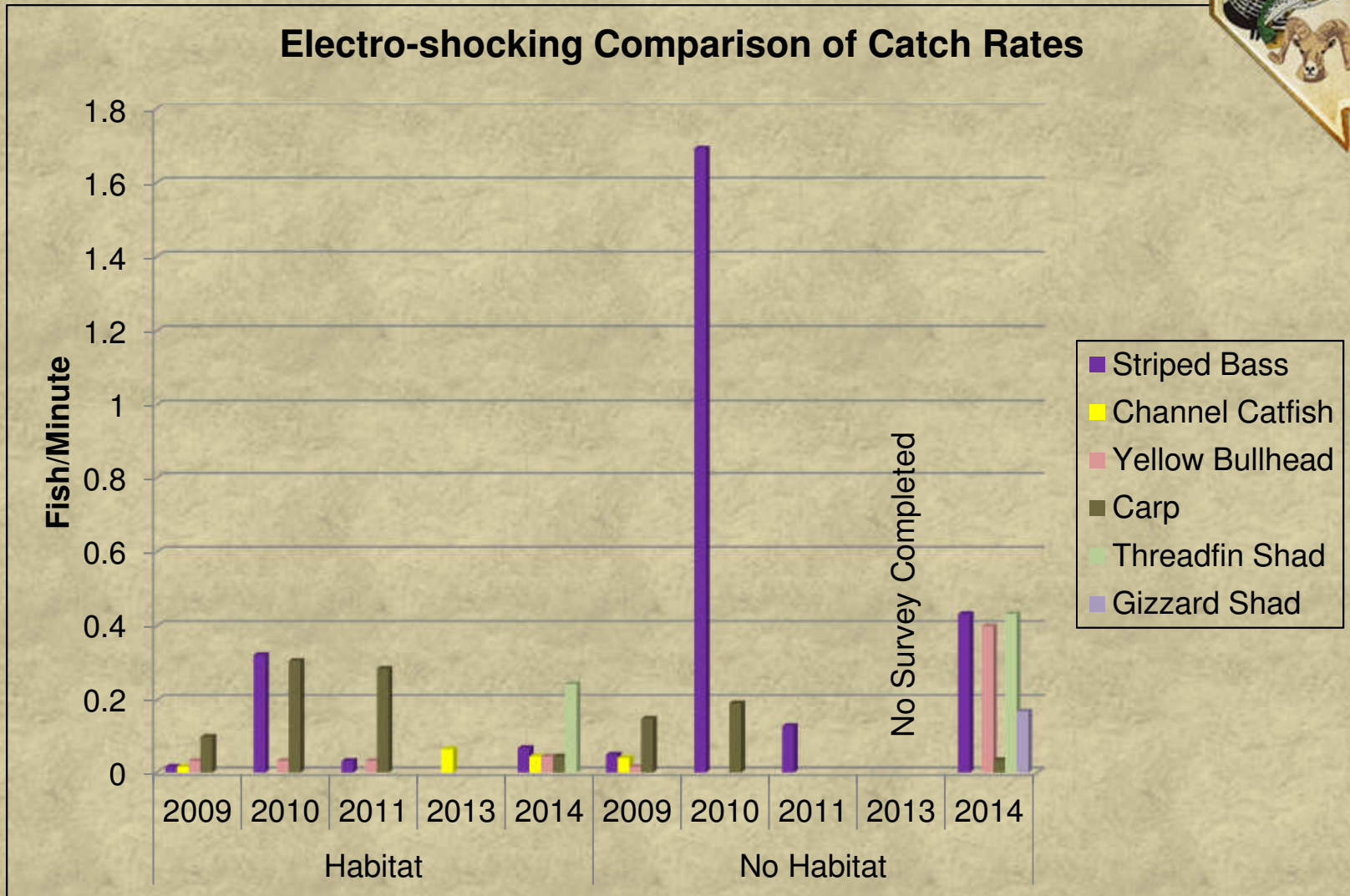
## Electro-shocking Comparison of Catch Rates



# Electro-shocking Survey Results



## Electro-shocking Comparison of Catch Rates



## Observations from surveys



- When there is a thermocline present fish only use habitat that is above it not below
- Water visibility never cleared up from fall algae spike
- Striped bass observed and captured during surveys
- Gizzard and threadfin shad present in the lake



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# Acknowledgements

- Arizona Game and Fish
- National Park Service
- Bureau of Reclamation
  - MSCP Fisheries Group
- Arizona State Prison
- Numerous Volunteers



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## **Lake Mohave Annual Sport Fish Surveys**

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# 2014 Accomplishments



- Cooperation by NDOW, AGF, NPS, USBR, and USFWS
- 11<sup>th</sup> year using AGF protocols
- Gill Netting
  - 49 net-nights
  - 758 hours of netting
- Electroshocking
  - 16 coves
  - 243 minutes of switch time

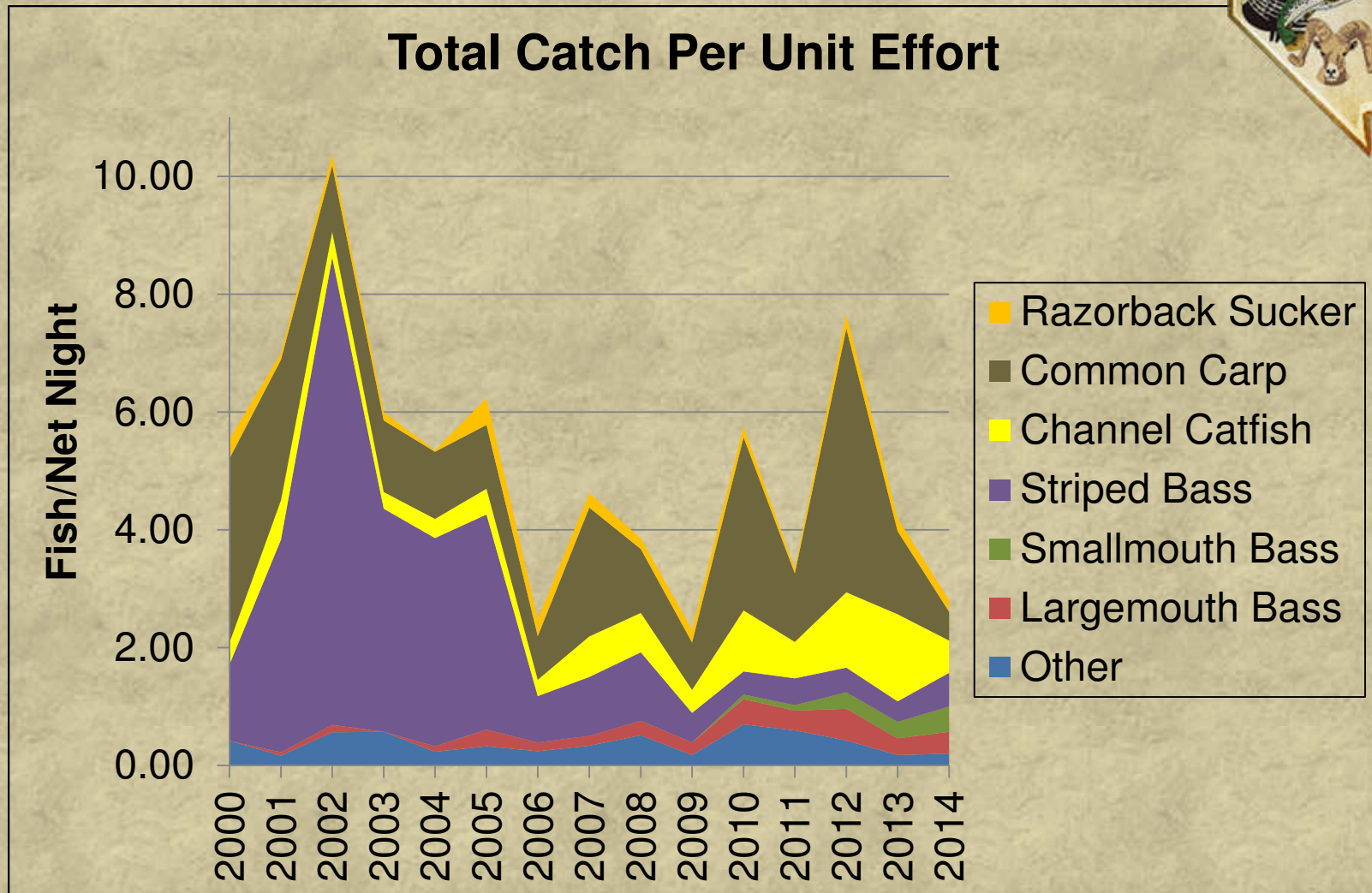


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# Gill Netting Results



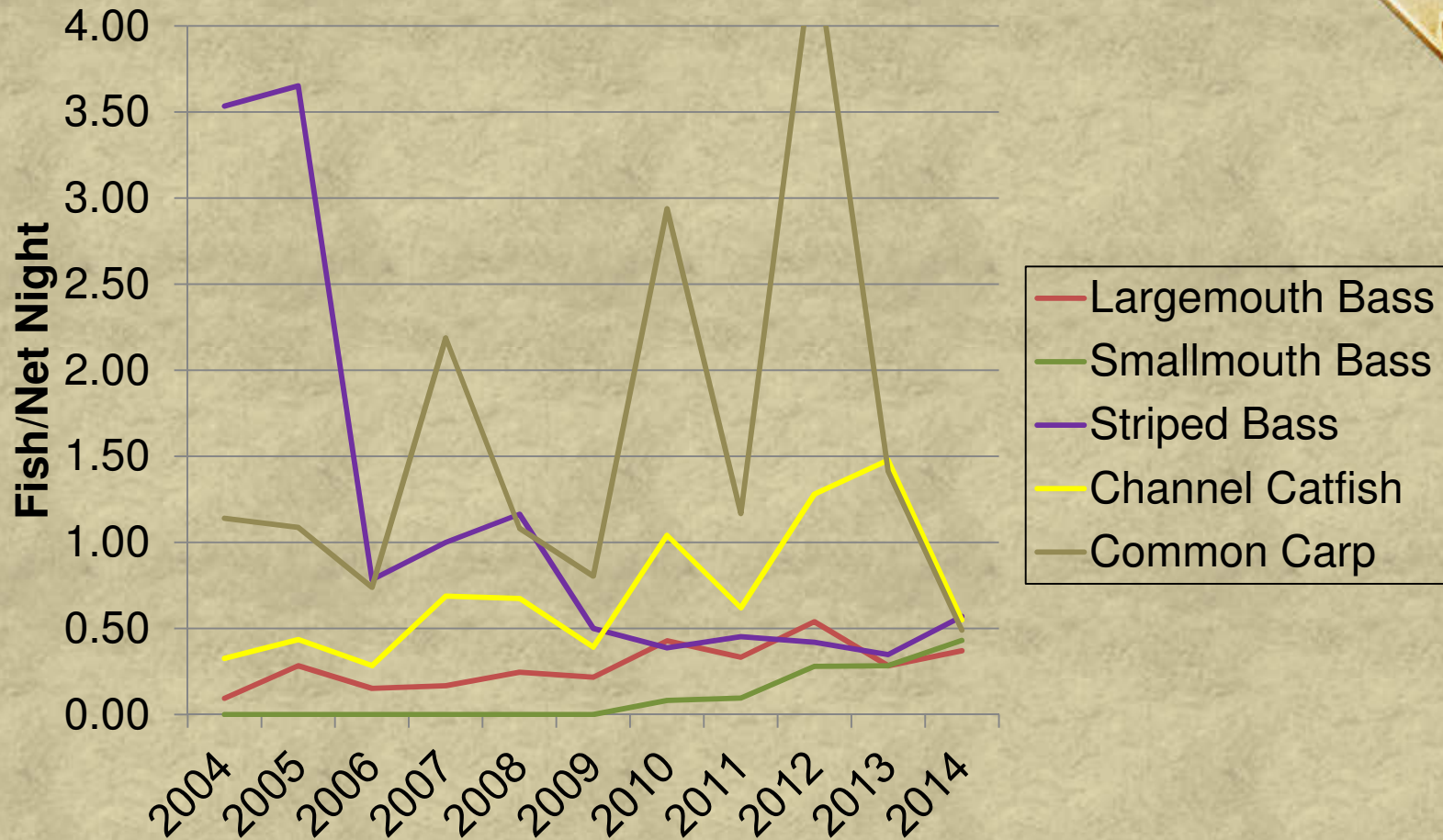
## Total Catch Per Unit Effort



# Gill Netting Results



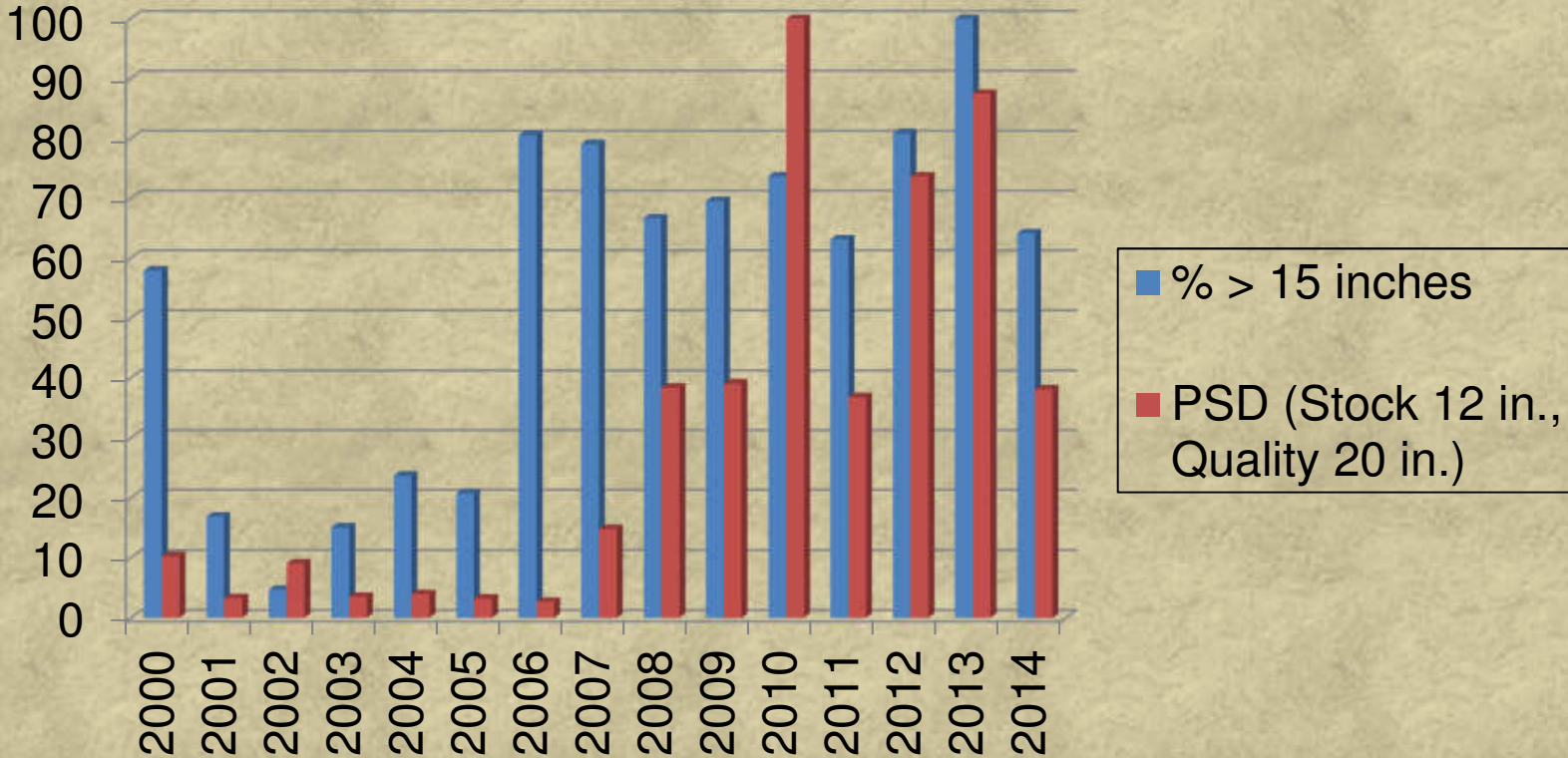
## Catch Rates by Species



# Gill Netting Results



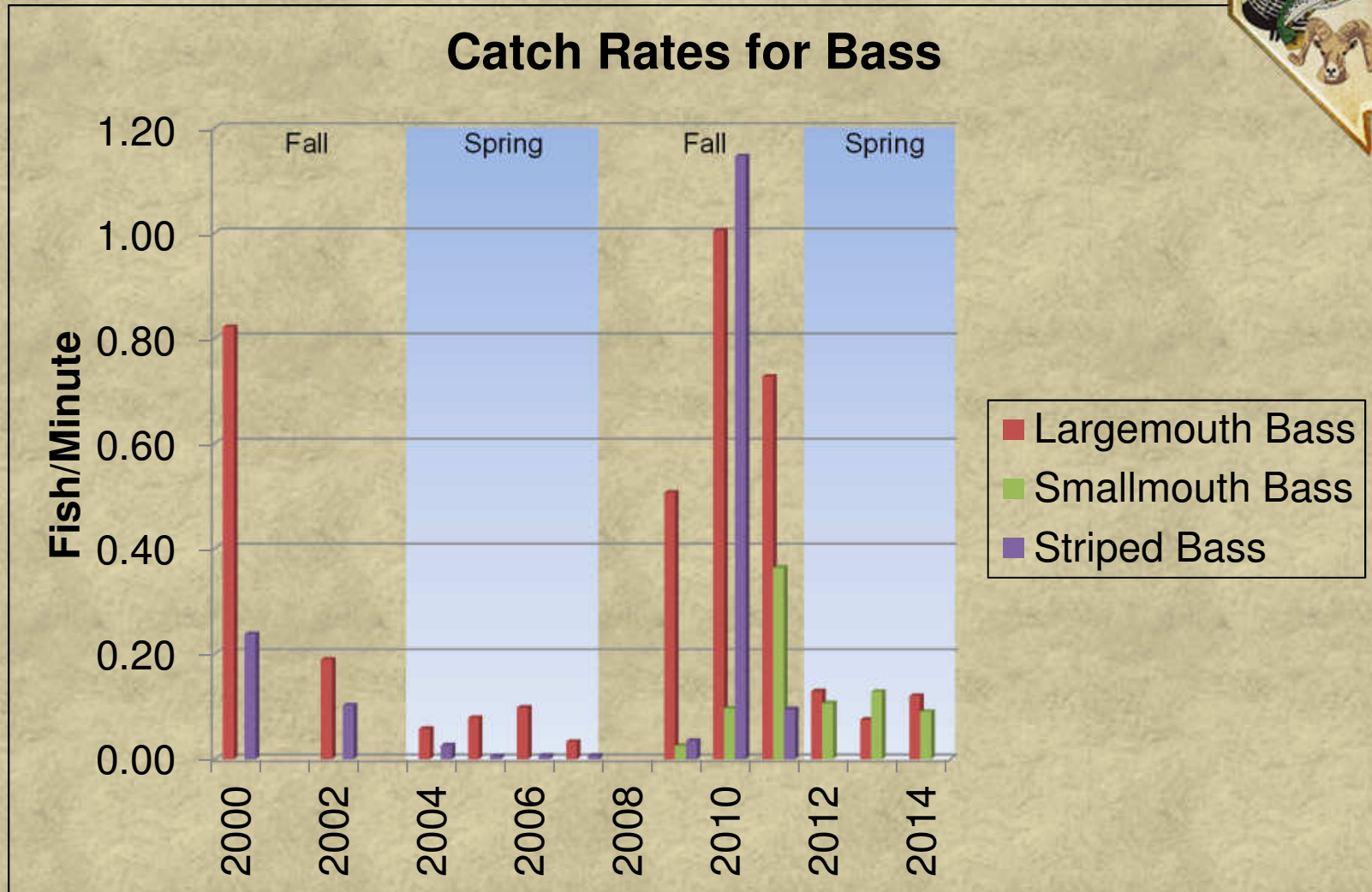
**Striped Bass Proportional Stock Density (PSD) and Percentage of fish caught greater than 15 inches**



# Electro-shocking Results



## Catch Rates for Bass



# Electro-shocking Results



## Sunfish and Carp Catch Rates

