# Avian Predation on Native Fish

Lower Colorado River Multi-Species Conservation Program

NATIONAL PARK SERVICE

**Julia Mueller**

# Background Information

Laughlin Lagoon

Reach 3

4,516 stocked

- Recruits

# Study area and manipulation

HABITAT
PROTECTION
AREA
RESTRICTED
CLOSED TO MOTORIZED CRAFT
(ELECTRIC MOTORS OK)
NAC 488.470

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# Pole Data Results

Total scanning days: 33
Total tags consumed: 63
Predator Species: Osprey, Cormorant, GBH

| | | |
|---|---|---|
| 23-09-2015 | 04:37 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:38 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:39 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:40 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:41 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:42 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:43 | 3DD.003BCB6FAB |
| **23-09-2015** | **04:44** | **3DD.003BCB6FAB** |
| 23-09-2015 | 04:45 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:46 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:47 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:48 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:49 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:50 | 3DD.003BCB6FAB |
| 23-09-2015 | 04:51 | 3DD.003BCB6FAB |

# 10 Days Post-Release Results

- 947 GIEL released on 12/9/2015

- 24 tags scanned

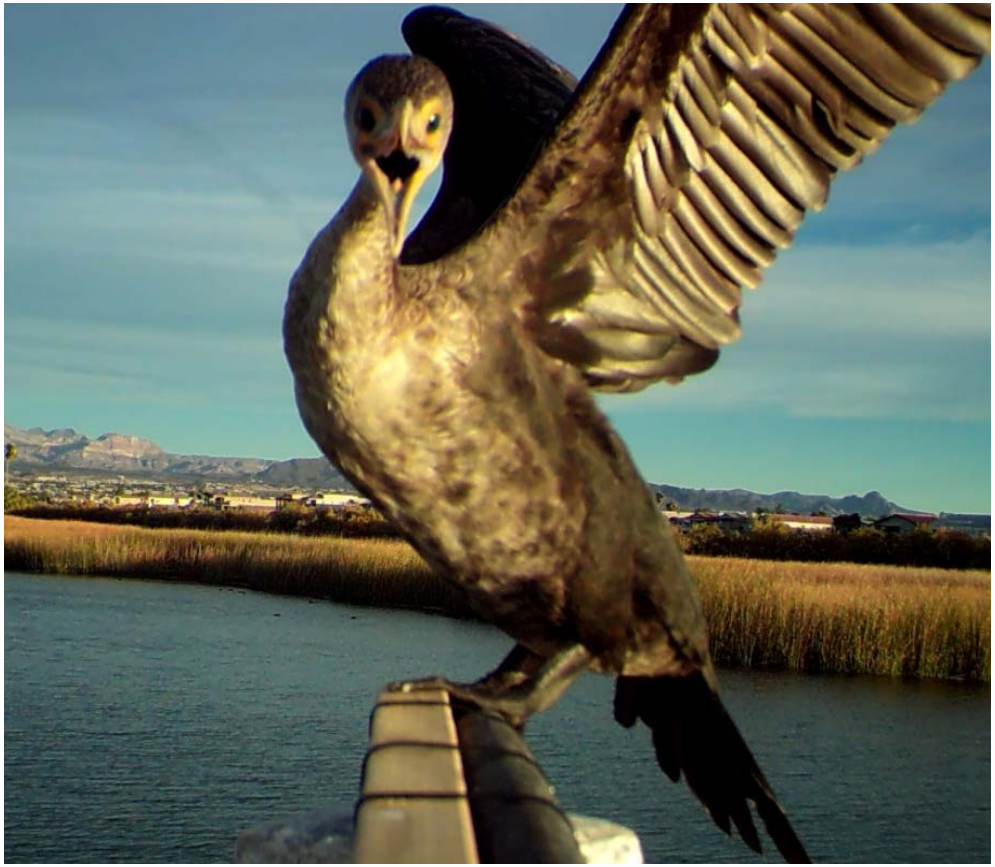
**2.53%**

# Additional Scanning

19 tags found under poles on 9/24/2015

12 tags rescanned on 12/10/2015 with 32 new tags found

1 tag previously scanned on pole mounted scanners



# Other findings

- 113 Unique PIT-tags
- Total GIEL consumed: 55
- Total XYTE consumed: 53
- Total unknown consumed: 5

- Total mean length: 308mm
- Range of size: 210-390mm

*Stocking size and size at consumption may differ.

# Future Work

- # of fish consumed per day
- Cormorant movement
- Feeding times

MOULTRIE
78°F
SITE-LLEAST
10 DEC 2015 01:53 pm

MOULTRIE
78°F
SITE-LLEAST
10 DEC 2015 01:55 pm

MOULTRIE
78°F
SITE-LLEAST
10 DEC 2015 01:55 pm

MOULTRIE
78°F
SITE-LLEAST
10 DEC 2015 01:58 pm