



Freeport-McMoRan Audubon Species Survival Center A Facility of Audubon Nature Institute



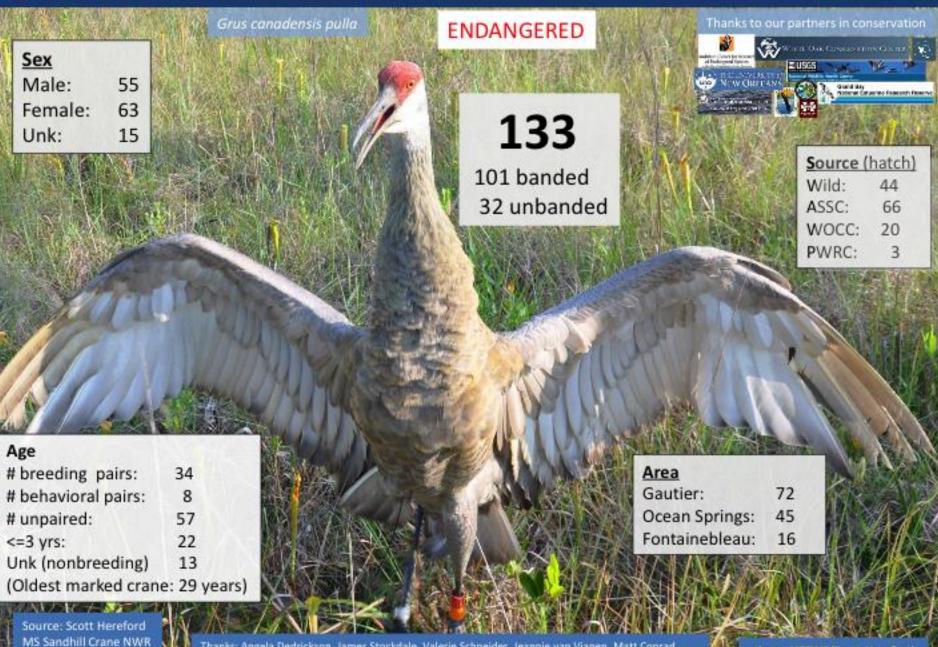








Mississippi Sandhill Crane: Jan 2018 Wild Population



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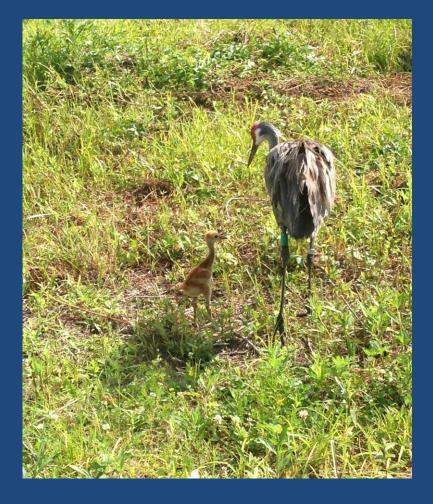
photo: USFWS/Scott Hereford

Costume Reared



- Almost ½ of current refuge population is made up of costume reared birds
- Only 60% of all MSCs survive their first year

Parent / Foster Reared



NESTING ACTIVITY BUDGETS AND ANTIPREDATOR BEHAVIORS OF MISSISSIPPISANDHILL CRANES

- Dr. Jerry Howard- University of New Orleans
- Does parental behavior influence nest outcomes?
 - infrared motion-activated cameras to capture behavioral sequences from 33 nests over a two-year period.

THE RESULTS

- The most <u>successful reproducing</u> pairs on MSCNWR contained 1 wild hatched bird and 1 parent/foster reared bird.
- These pairs are effectively defending their nests where pairs containing costume reared birds are ineffectively defending or showing no defense at all.
- Altered social environment and learning opportunities = variety of behavioral problems.
- "Training in anti-predator behavior during captive rearing may increase behavioral competence and reduce losses to nest predators." (Howard et al. -1)



Three identities:

- 1. Mama Crane
- 2. Ghillie Suits
- 3. Humans Vet Care





Human predator aversion



Animal predator aversion

Raccoons!

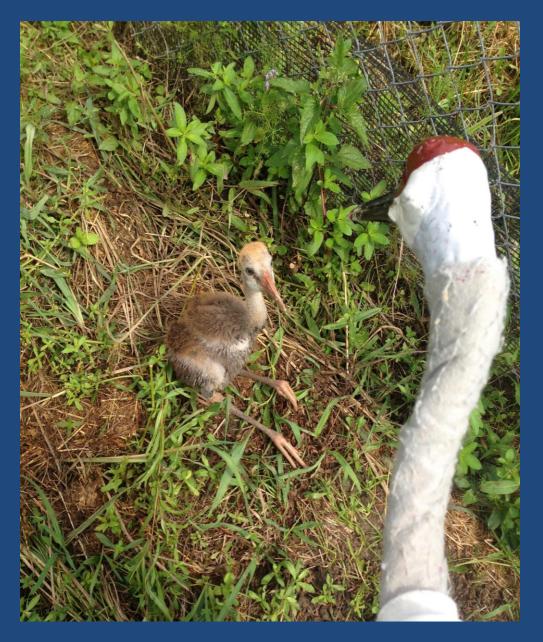


 Training occurs 3 times while in captivity



Where do we go from here?

- 100% of chicks trained and released since 2014 survived their 1st year... waiting to see how they do once breeding begins.
- Continue planning how to make the predator interaction more realistic.
- Work with different predators- bobcats, coyotes, snakes, crows, and owls.
- Transition into more foster/parent rearing with pairs that have shown good defense behaviors and have strong pair bonds.
- Apply it to other crane species!



References

Howard, Jerome et al. NESTING ACTIVITY
BUDGETS AND ANTIPREDATOR
BEHAVIORS OF MISSISSIPPI SANDHILL
CRANES. 2016.

Hereford, Scott et al. MISSISSIPPI SANDHILL CRANE RECOVERY REPORT. 2017