



Resuscitate Resilience by Curbing Cattail

Sue Newman

Everglades Systems Assessment, SFWMD

Greater Everglades Ecosystem
Restoration Conference
April 2019

Natural Everglades



Disturbed Everglades

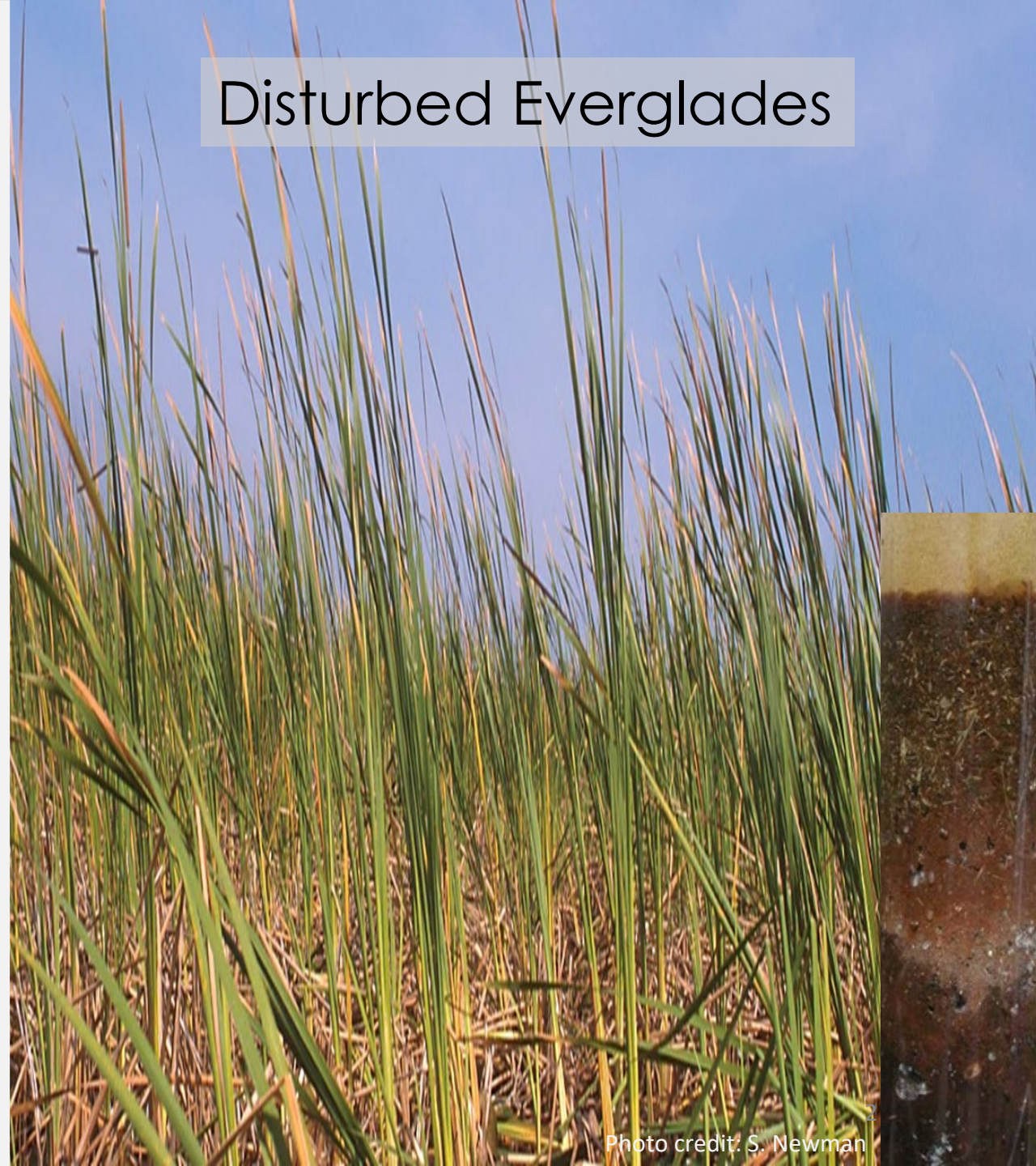
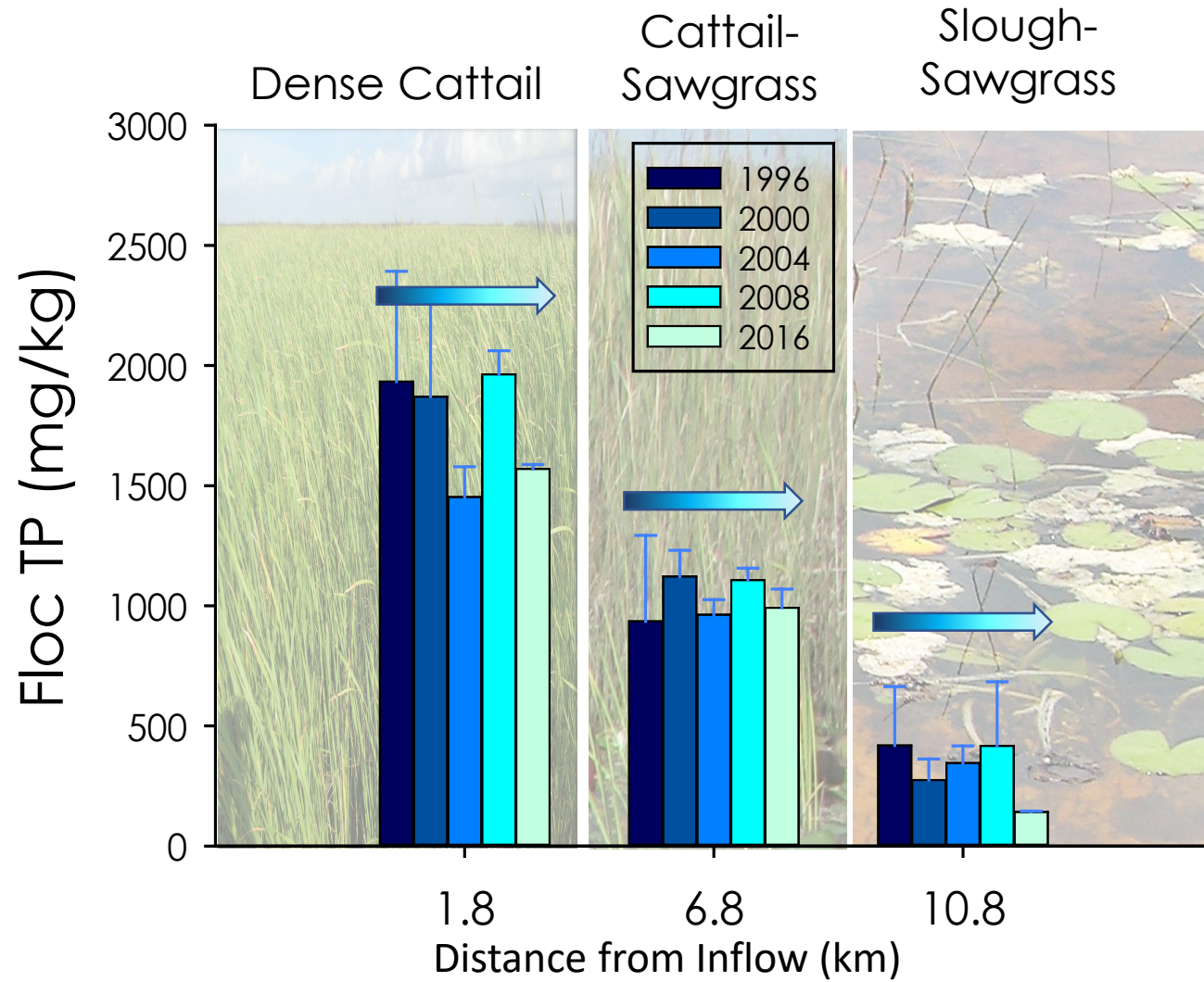


Photo credit: S. Newman

Cattail is Resilient



→
2 months later



- ↓ P loads entering the Everglades
- No change in Floc P
- Feedback

HELLO
my name is

Sell Out

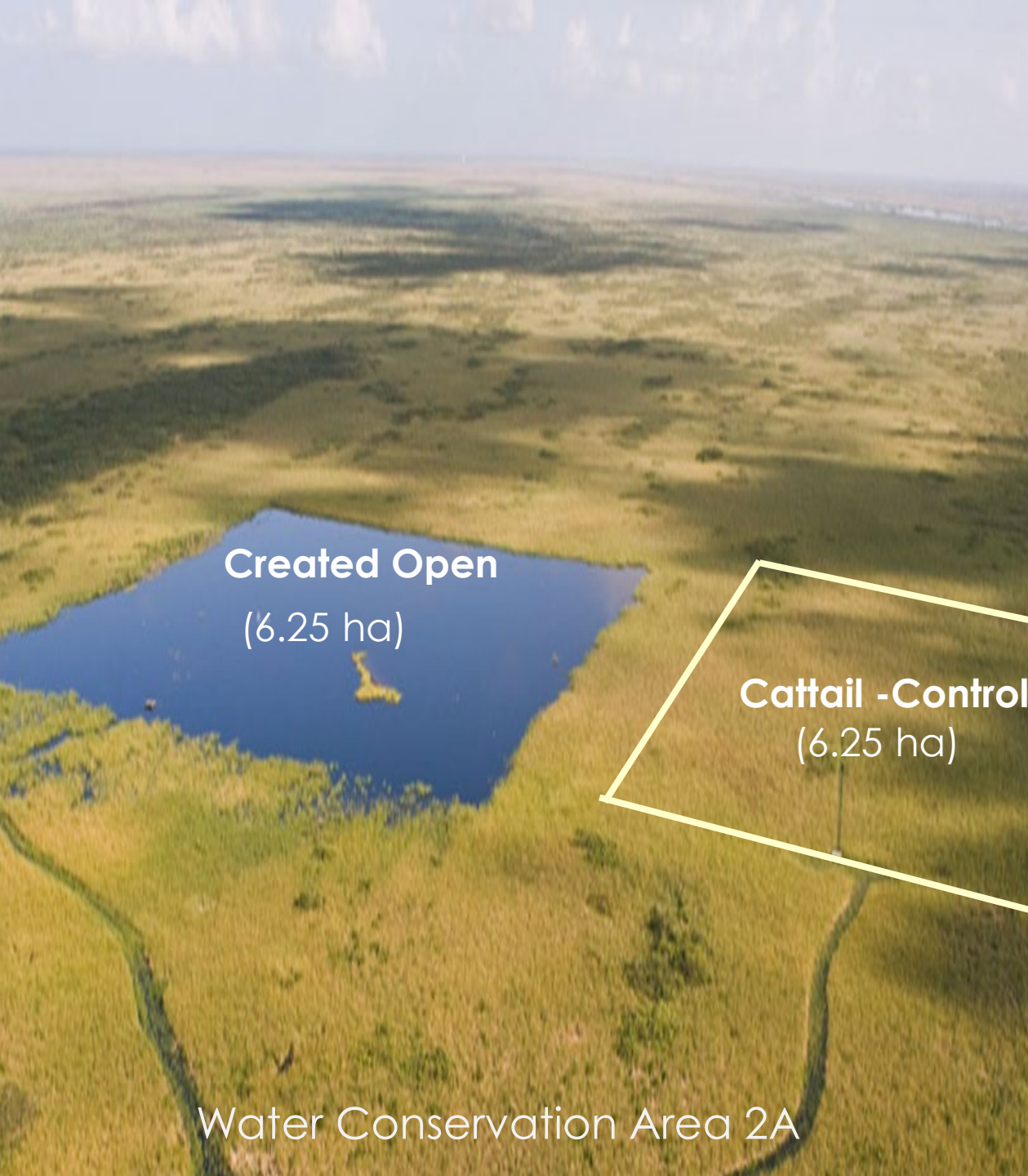
Why OK with herbicides?

Experience in Florida- almost year-round growth season

Experience with invasive plants

Certified “Nozzlehead”





Created Open
(6.25 ha)

Cattail -Control
(6.25 ha)

Water Conservation Area 2A



O₂

Evolution of a Plot

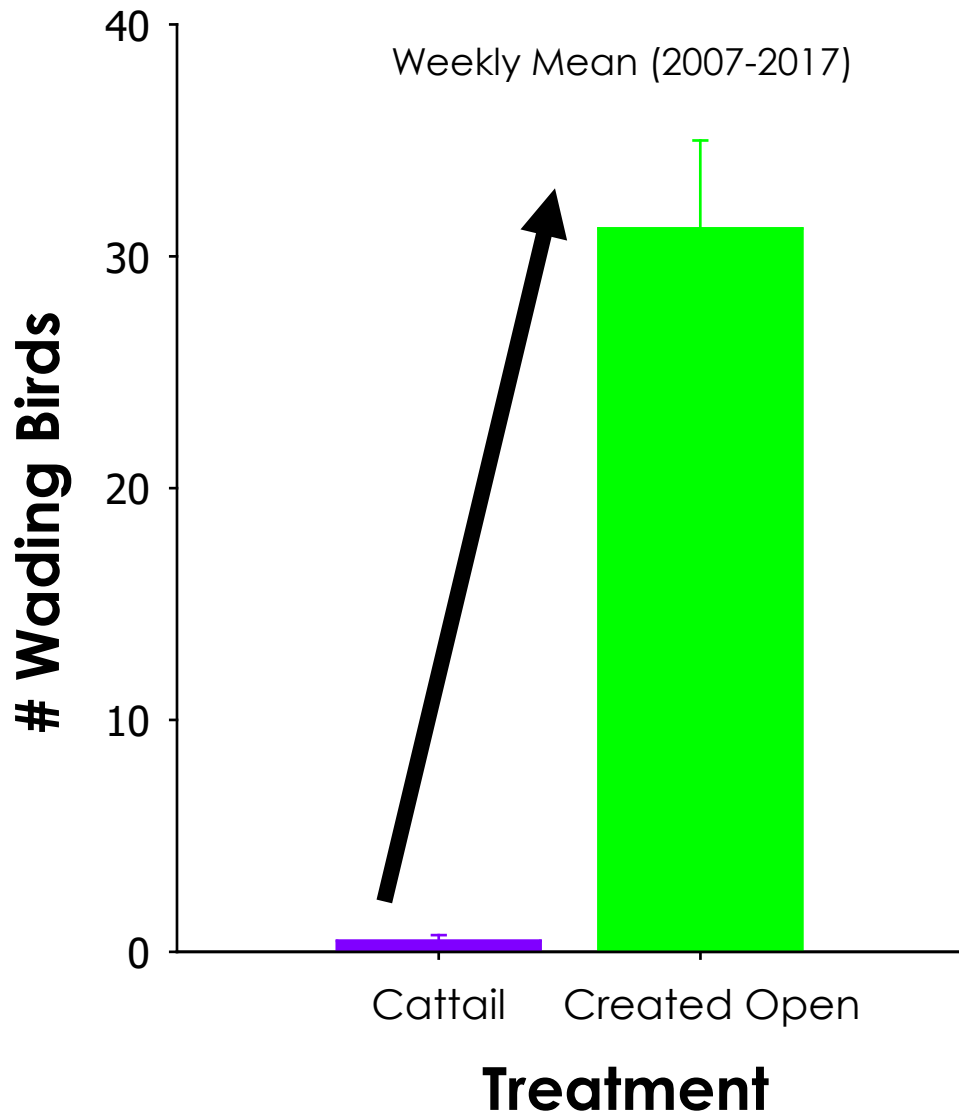


September 2015

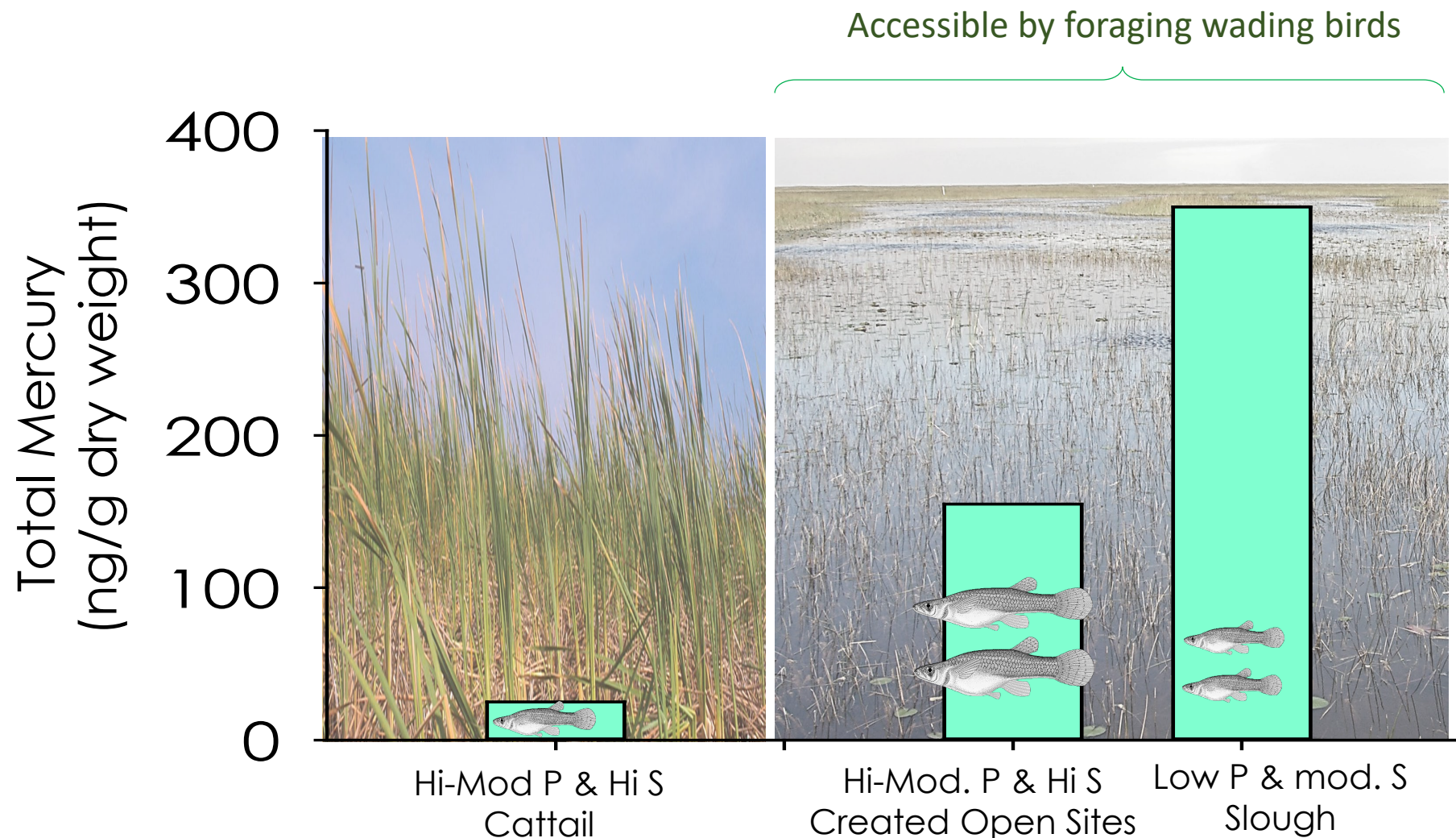


December 2018

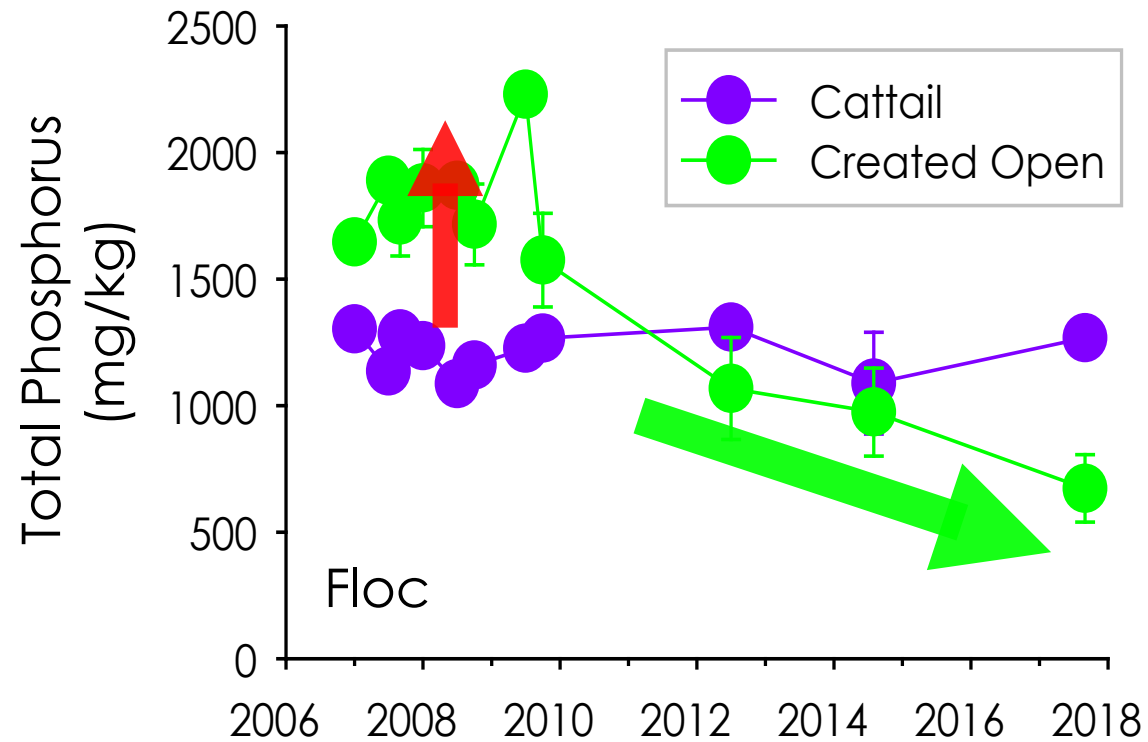
Created Plots – Good Foraging for Wading Birds



50 % Lower Mosquito Fish Mercury Content



Overcoming nutrient feedback



Cattail



Created
Open



Low P



Did we sell out?



Photo credits: R. Bennett, M. Cook, M. Manna

Acknowledgements

Co-PIs- Mark Cook & Scot Hagerthey

Staff and Contractors over the years:

Everglades- J. Beerens, B. Bellinger,
R. Bennett, E. Call, J. Faye, H. Herring, S. Hohner,
P. Holowecky, M. Jacoby, M. Kobza, M. Manna, K.
Seitz, R. Shuford, J. Zimmerman. C. Zweig

Veg. Management- F. Laroche, L. Rodgers, S. Smith
SFWMD, Aircoastal and Helicopter Applicators Inc.,
for aerial support
Florida Fish and Wildlife Conservation Commission- fire

UF- A. Wright

Hg- Dave Krabbenhoft

And all other conscripts too
numerous to name!

