

Seasonal and Daily Activity Patterns of Argentine Black and White Tegus in South Florida

Lindsey Garner, Joy Vinci, Kyle Allen, and Frank Mazzotti



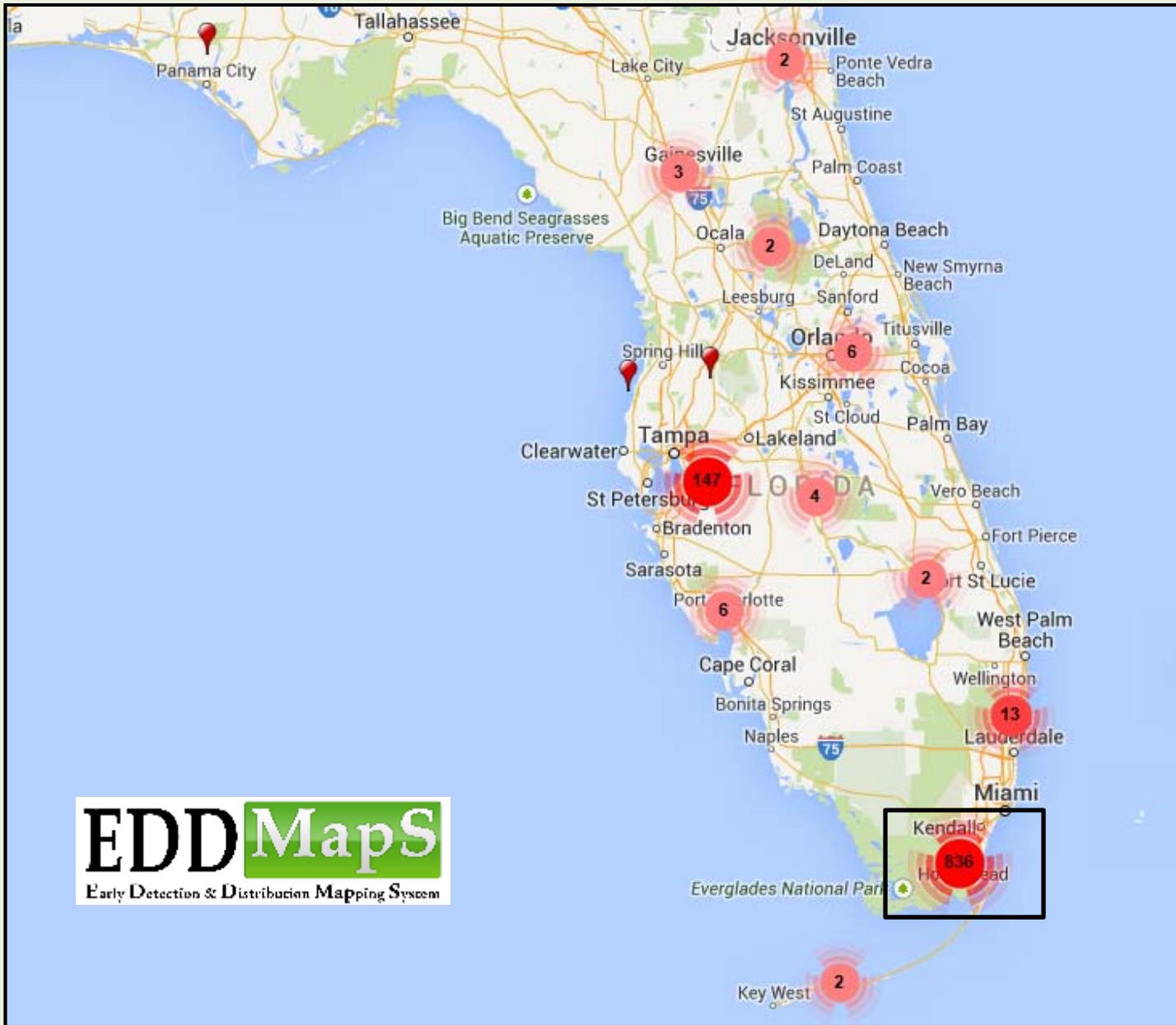
Introduction

- *Tupinambis merianae*
- Native Range - Brazil, Paraguay, Uruguay, and northern Argentina
- Largest and most temperate species of tegu
- Omnivorous, habitat generalist, and active forager
- High fecundity
- Hunted for skins and meat



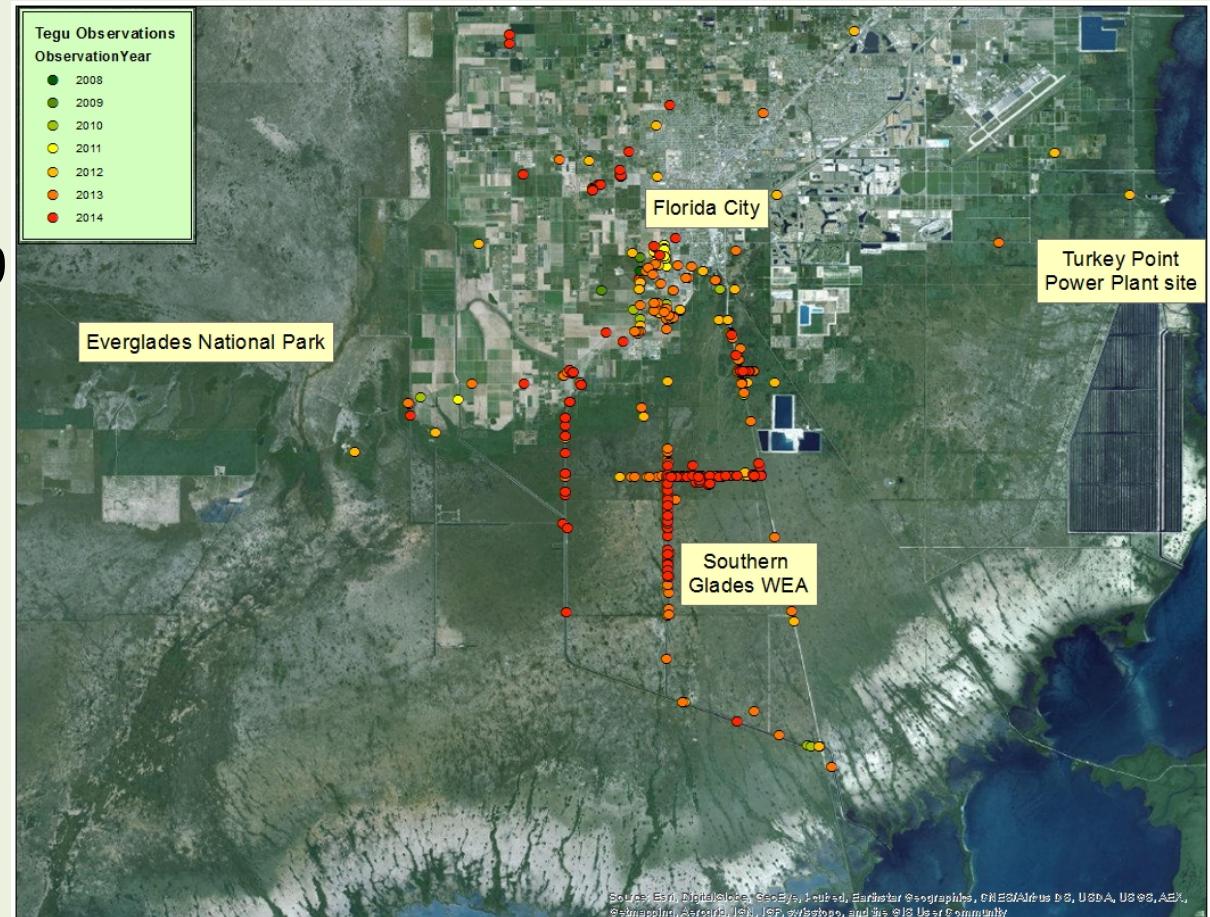
Photos by Dustin Smith, Zoo Miami

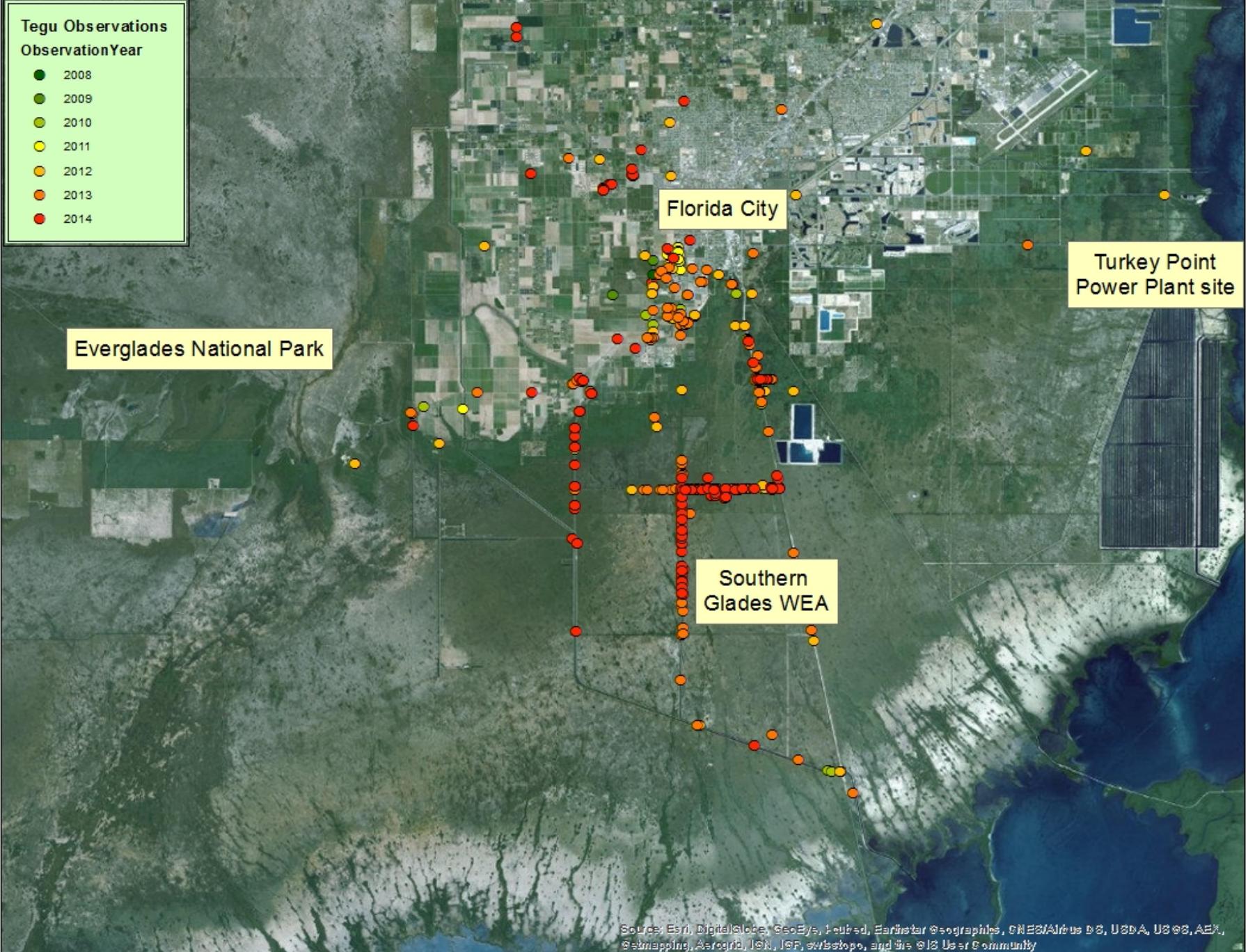
Tegus in Florida



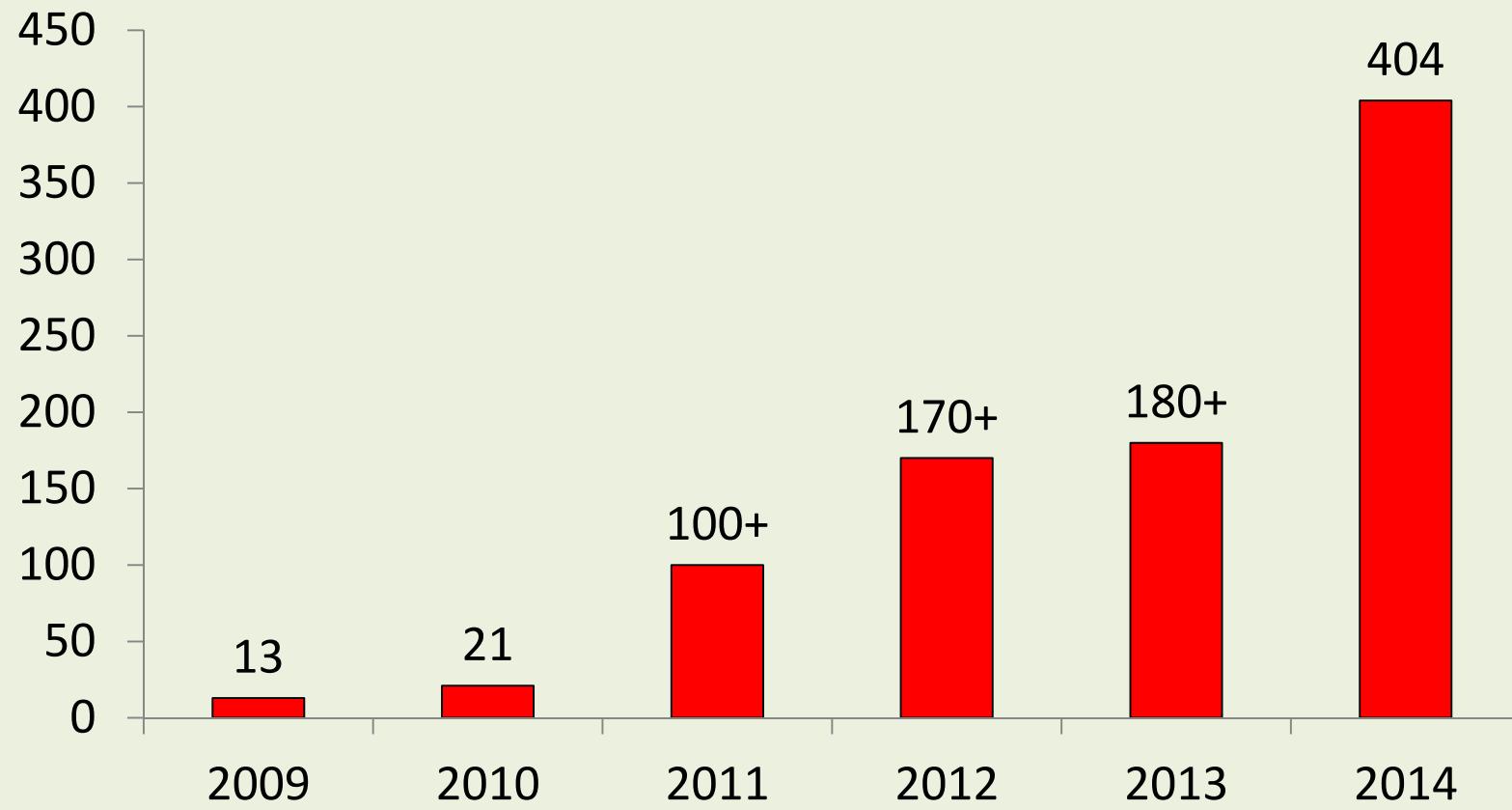
Tegus in South Florida

- First observation-2008
- Trapping initiated-2009
- Subsequent studies
 - Telemetry
 - Diet analyses
 - Camera traps
 - Burrow scoping





Tegus removed by year*



*Does not include private trappers

Objectives-2014

- Continue to determine population demographics
- Measure removal efficacy
- Determine seasonal activity patterns specific to South Florida
- Evaluate spatial and temporal occurrence

Study Area



South of Florida City, East and West
of US1



424th Street, South of Florida City,
East of US1

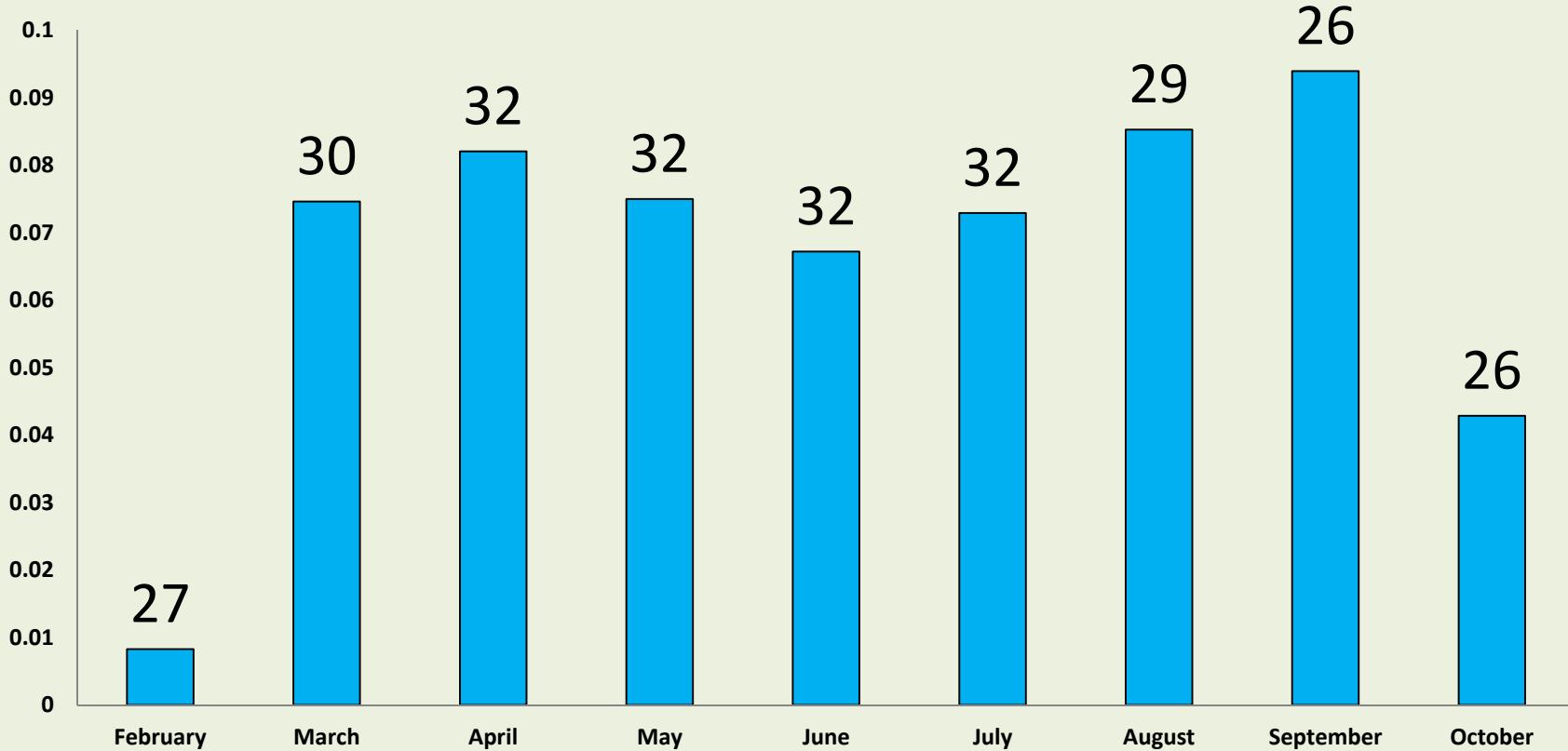
Methods

- **Live trap removal**
 - 33 live traps baited w/ eggs
 - February-October
- **Camera trap monitoring**
 - Occupancy
 - Periphery and dispersal
- **Radio-telemetry**
 - Females only
 - Linear habitat movement

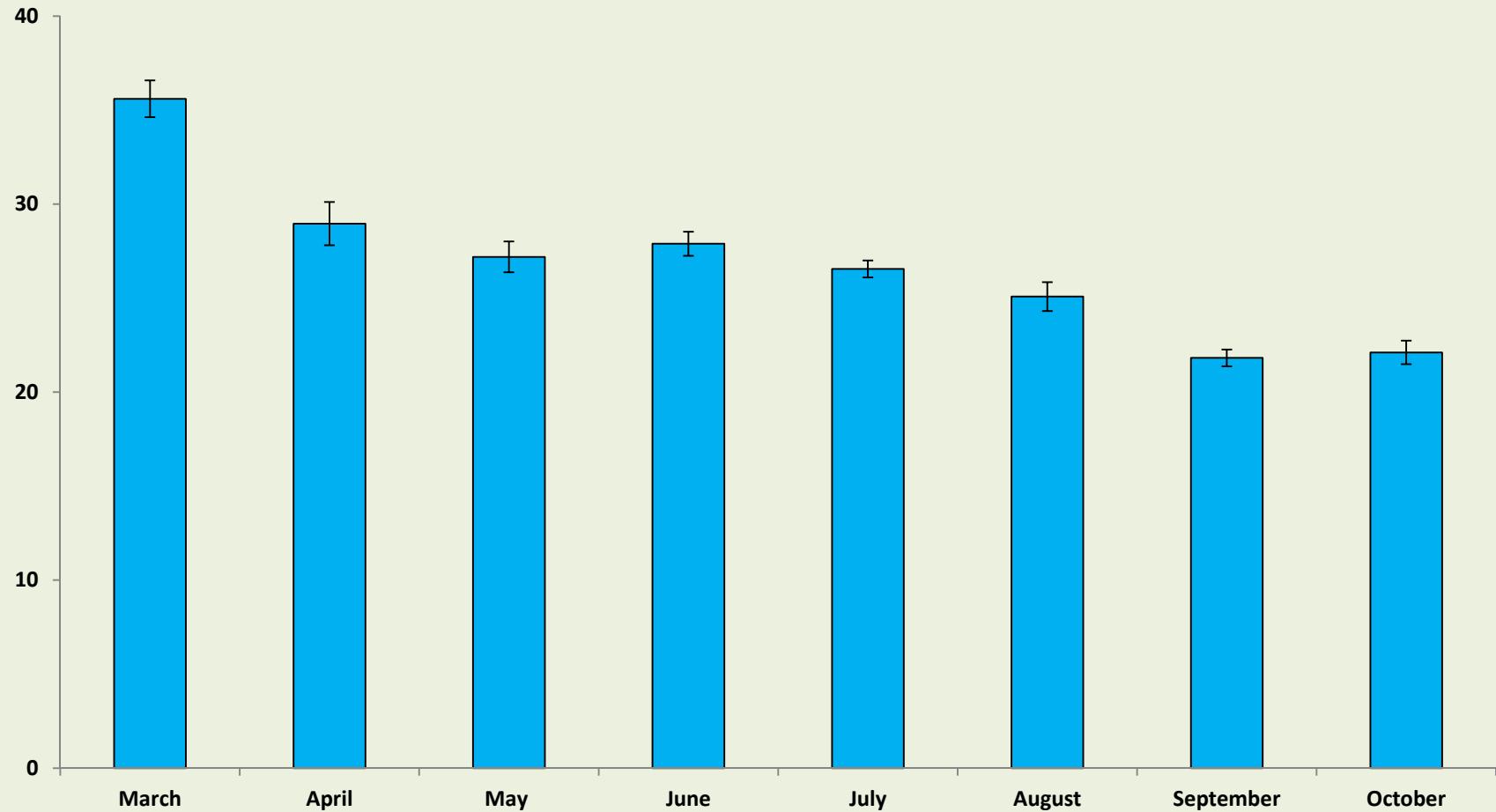


Results

2014 monthly tegu CPUE
Tegus/Trap Day



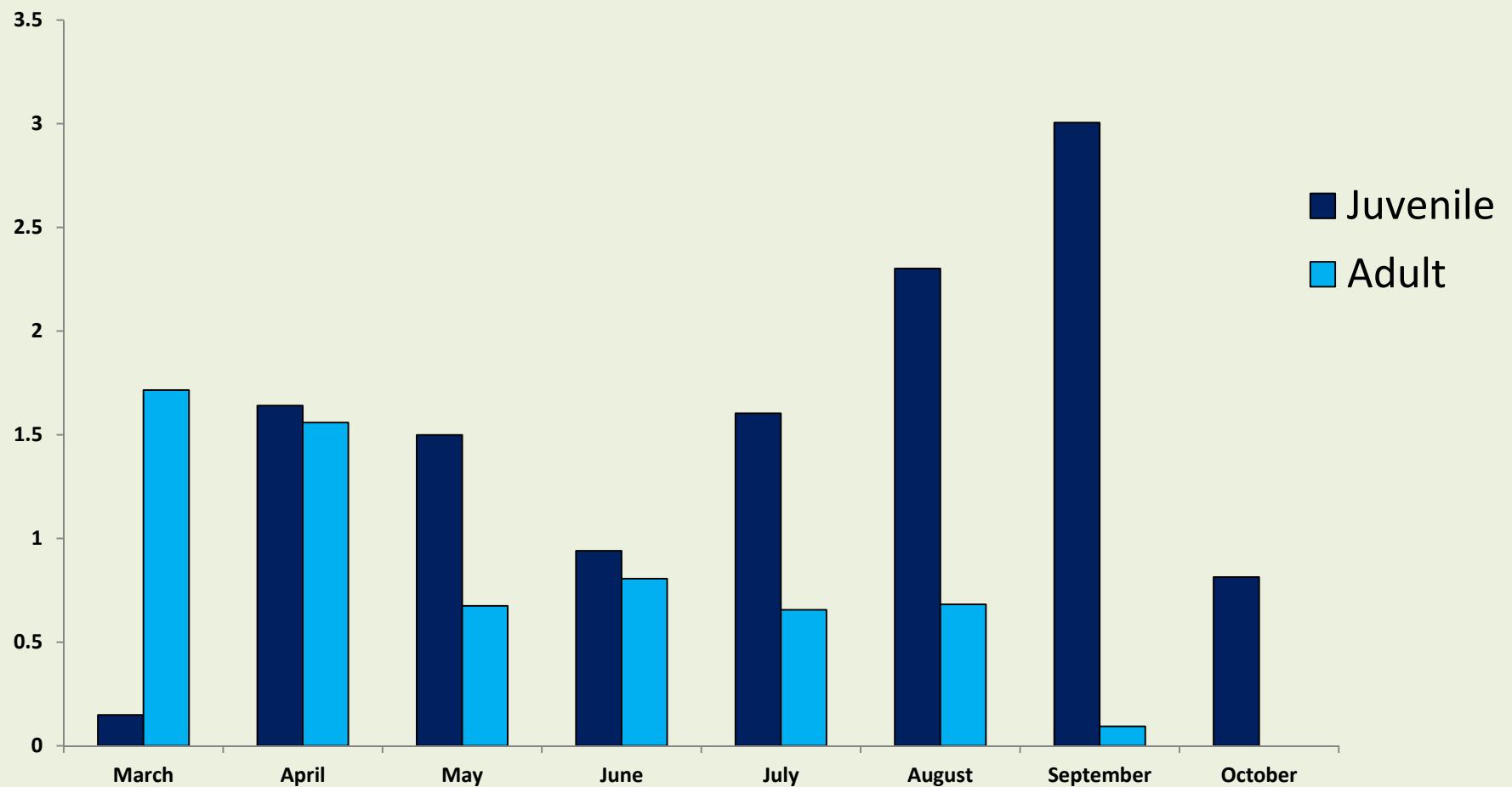
2014 mean SVL(cm) by month



*Mean tegu size decreased throughout trapping period

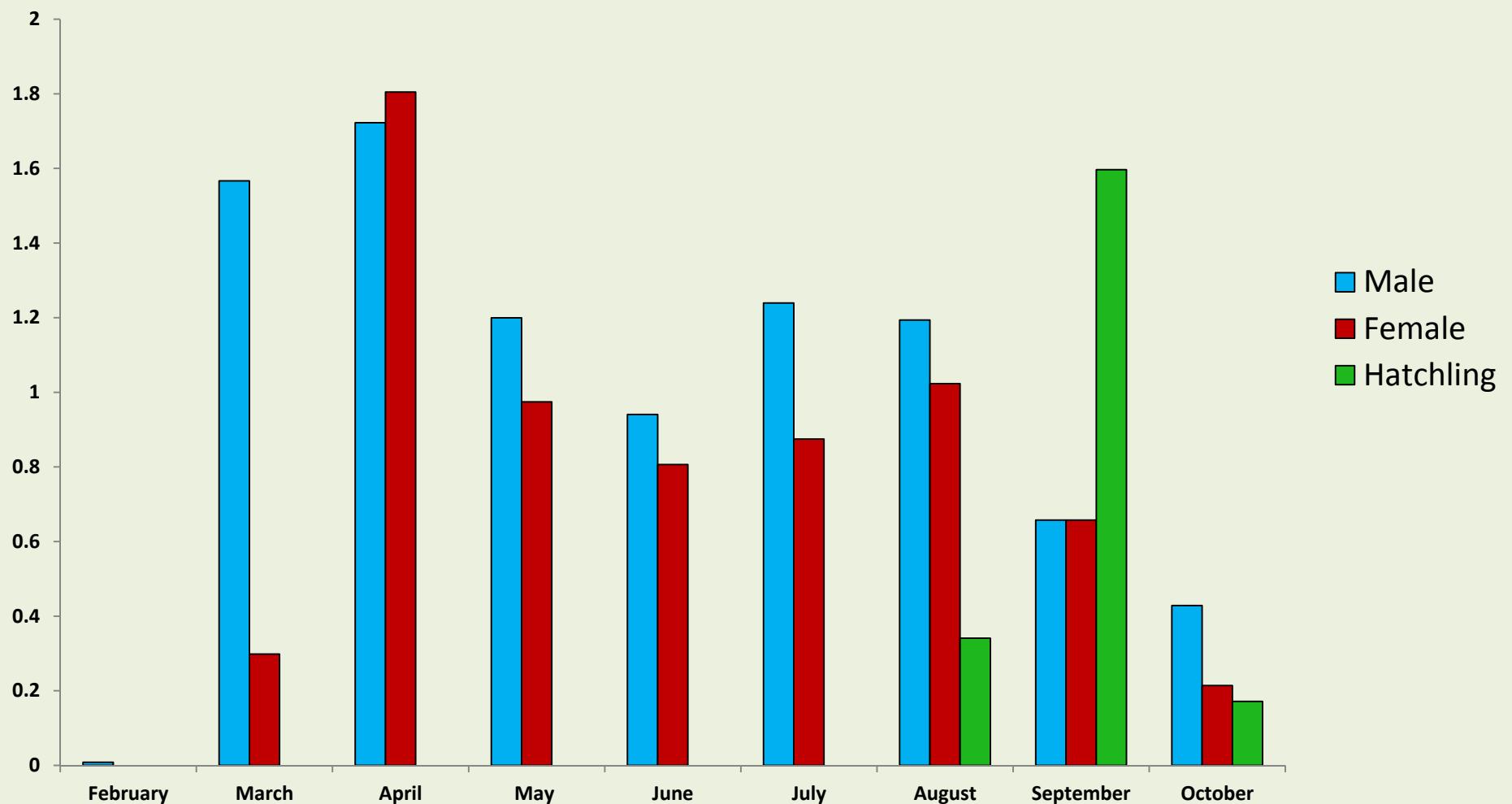
2014 size class by month

Tegus /Trap day

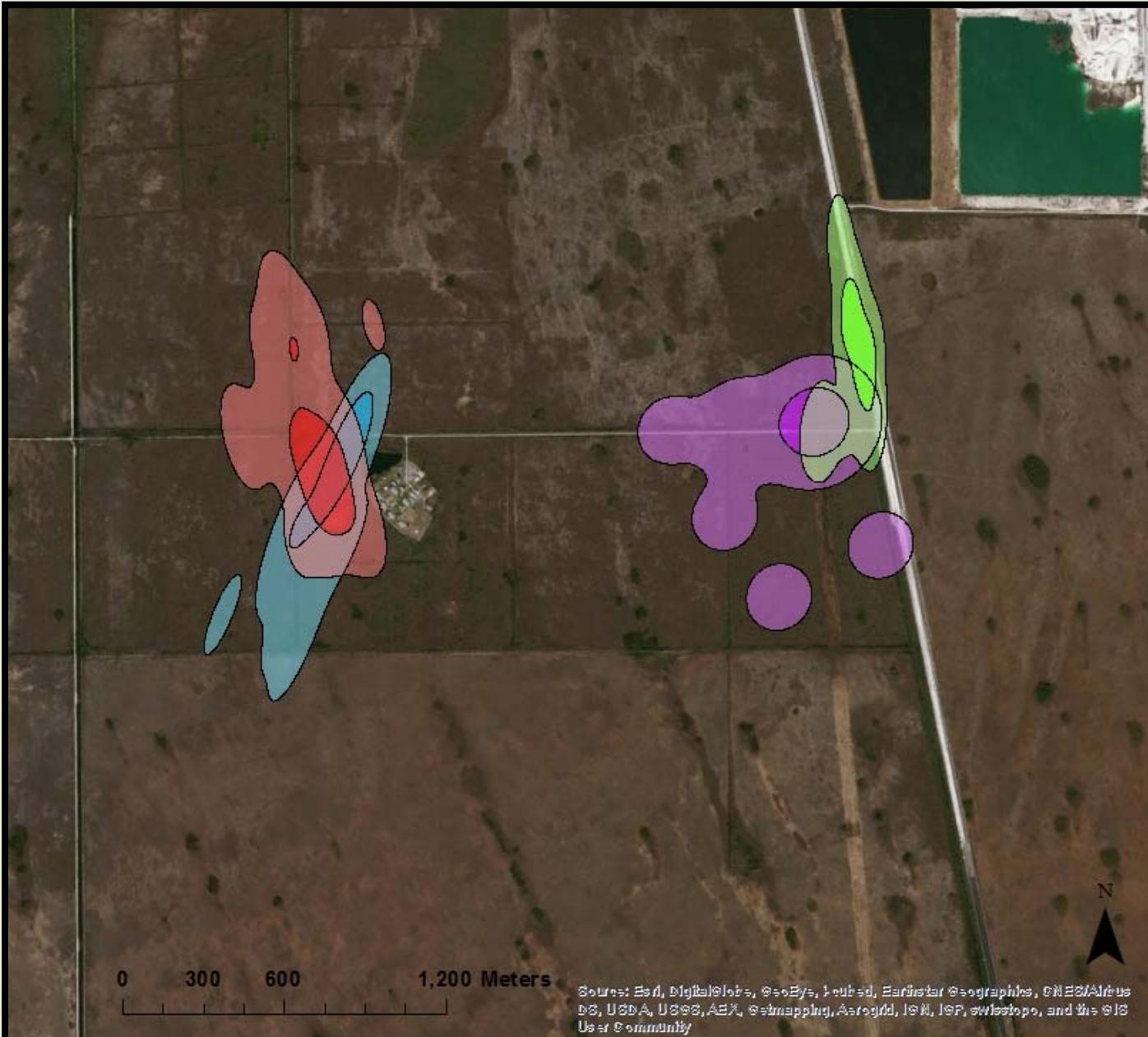


2014 tegu sexes by month

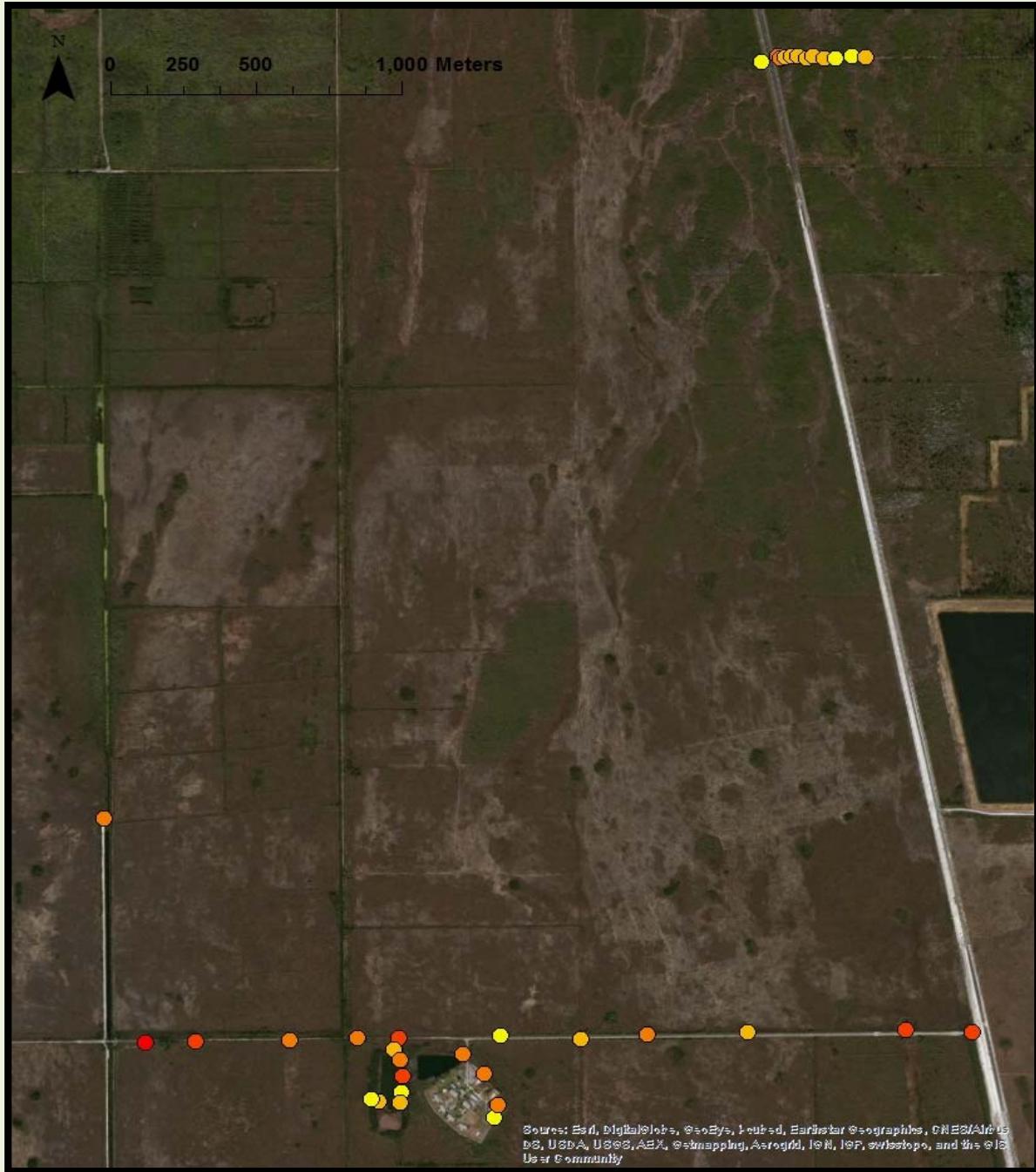
Tegus/Trap day



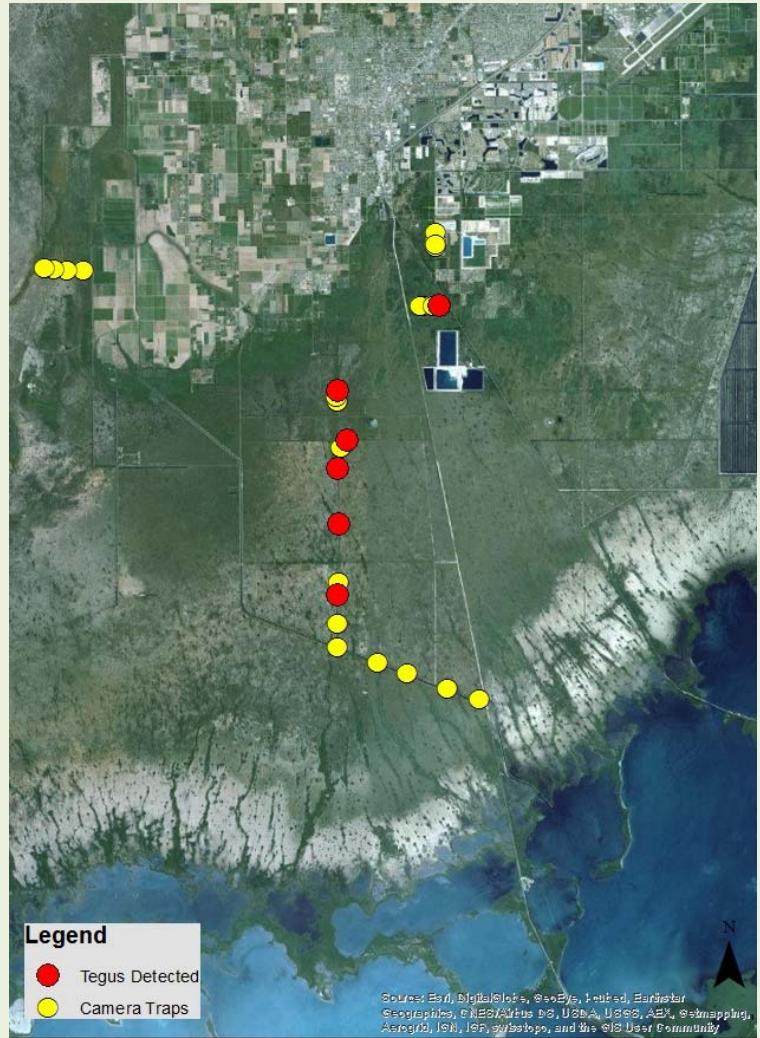
Female Tegu Home Ranges



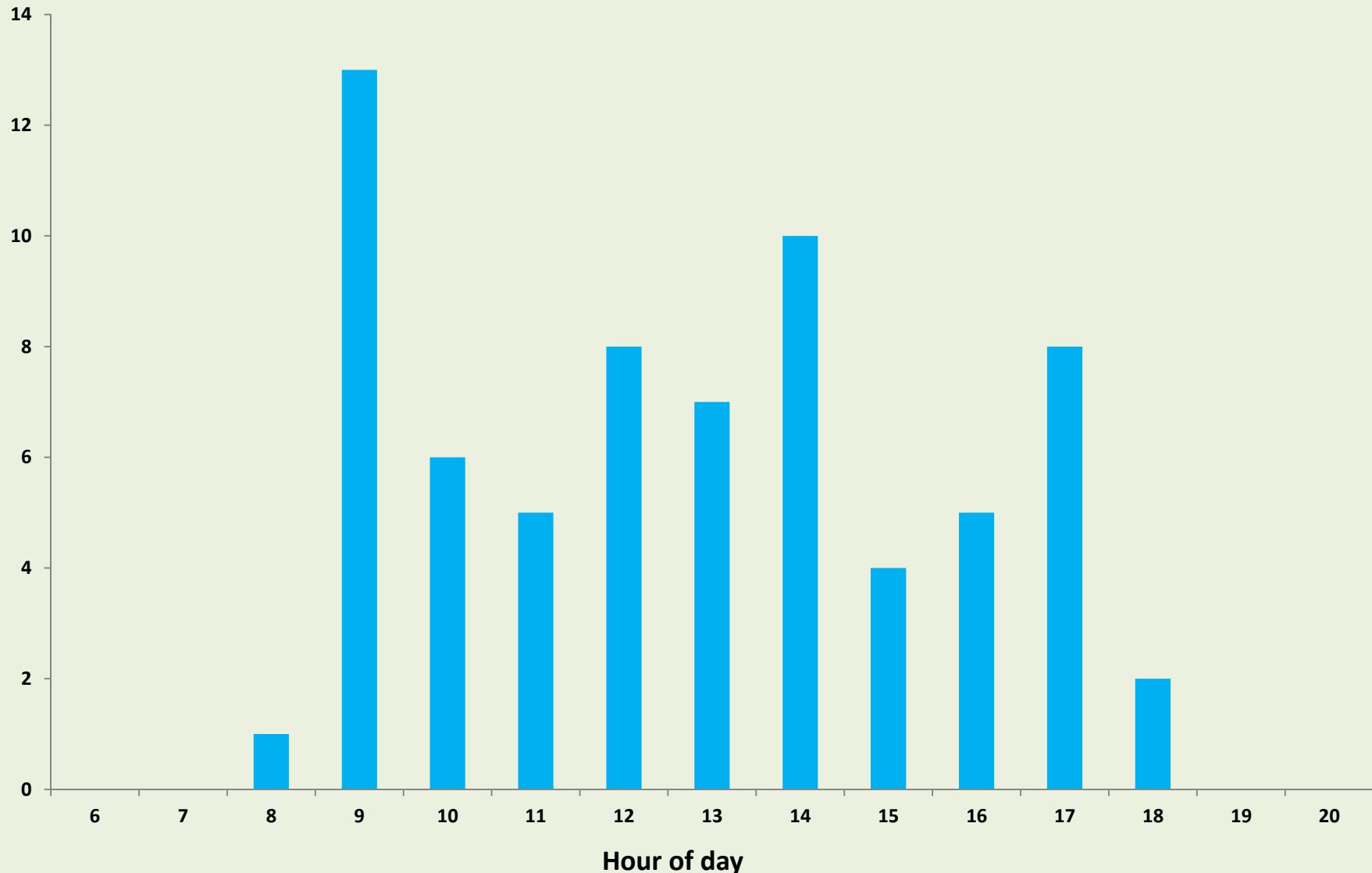
Live Trap CPUE



Camera Trap Success



Daily tegu occurrence by hour



Discussion/Management Implications

- Start and stop of brumation
- Protandric emergence (males first then females)
- Sizes and sexes to focus removal effort on
 - Dispersing tegus
 - Reproductive females
- Trap placement and density
- Trap characteristics that increase CPUE of tegus



Acknowledgements

- Florida Fish and Wildlife Commission
- Florida DOT
- South Florida Water Management District
- Venom1-Jeff Fobb
- Dallas Hazelton; Dustin Smith; Christopher Smith, DVM

