

COMMITTEE MEETING EXPANDED AGENDA

**APPROPRIATIONS SUBCOMMITTEE ON AGRICULTURE,
ENVIRONMENT AND GENERAL GOVERNMENT**

**Senator Mayfield, Chair
Senator Powell, Vice Chair**

MEETING DATE: Wednesday, September 18, 2019
TIME: 1:30—3:00 p.m.
PLACE: *Toni Jennings Committee Room, 110 Senate Building*

MEMBERS: Senator Mayfield, Chair; Senator Powell, Vice Chair; Senators Albritton, Bean, Berman, Broxson, Hooper, Hutson, Rodriguez, and Stewart

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	Presentation on Agricultural Water Policy by Department of Agriculture and Consumer Services		Presented
2	Presentation on Invasive Species Impacts, Prevention, and Enforcement by the Florida Fish and Wildlife Conservation Commission		Presented
3	Presentation by the Department of Management Services on its Responsibilities Relating to the State of Florida's Information Technology		Presented
Other Related Meeting Documents			

Overview of the Office of Agricultural Water Policy

Senate Appropriations Subcommittee on Agriculture,
Environment and General Government

Senator Debbie Mayfield, Chair

September 18, 2019



Responsibilities of OAWP

- Development and Implementation of Agricultural Best Management Practices (BMPs)
- Implementation of Cost Share Programs
- Water Supply and Water Quality Planning and Coordination
- Other Policy Development and Statutory Responsibilities



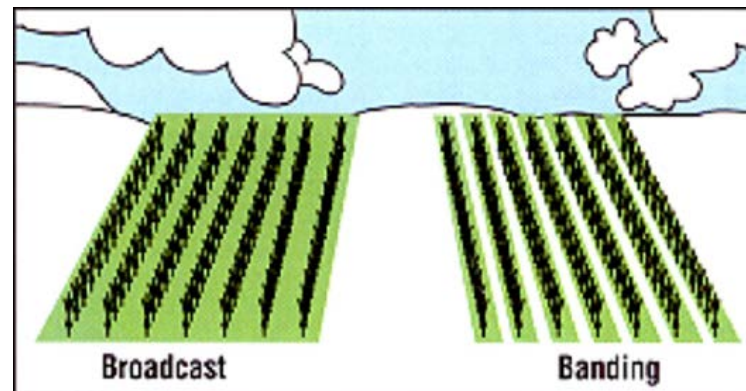
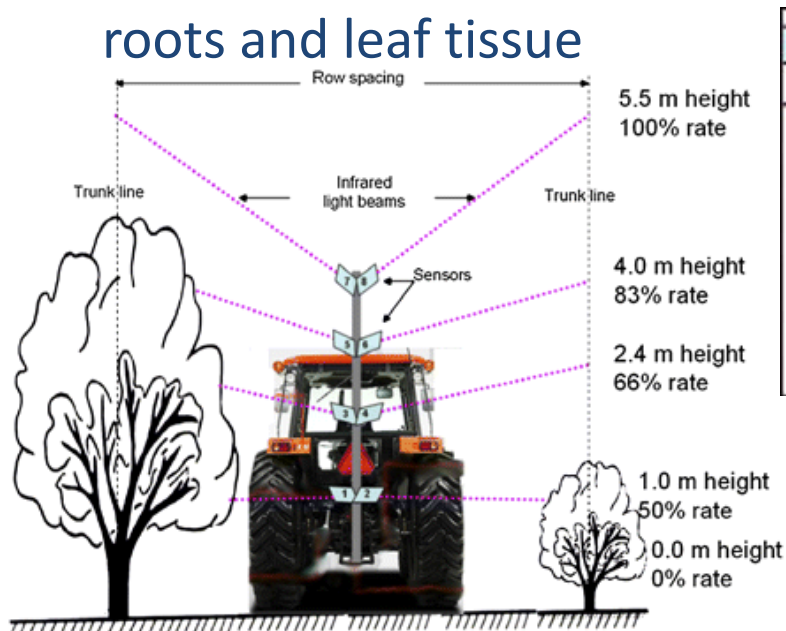
BMPs

- Management strategies, tools and practices that improve water quality, conserve water, and protect the environment
- Best available science and technology
- Technical and economic feasibility



Nutrient Management BMPs

- Precision Fertilization – Multiple technologies such as soil sampling on a grid or precision application equipment – reduces fertilizer inputs as much as 35%
- Variable Rate Technology – Allows precise placement of nutrients to roots and leaf tissue



Irrigation Management BMPs

- Soil Moisture Probes – Reduces fertilizer and water usage by up to 50%, provides tracking of fertilizer through soil column
- Precision Irrigation – Allows placement of water close to the plant, reduces evaporation, individual valves may be guided by soil moisture probes – reduces groundwater withdrawals up to 40%

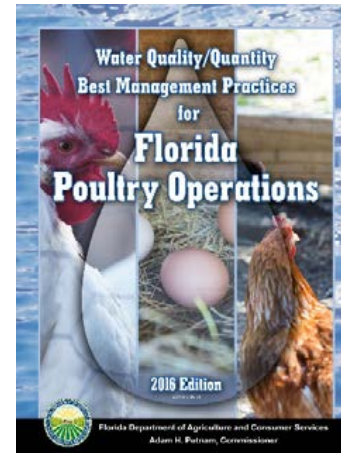
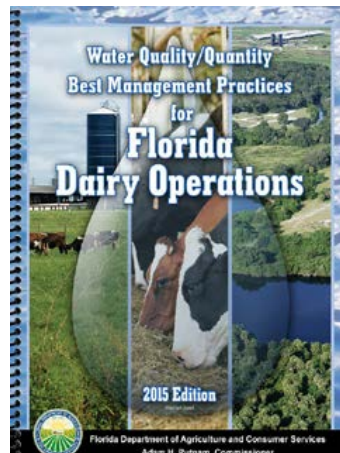
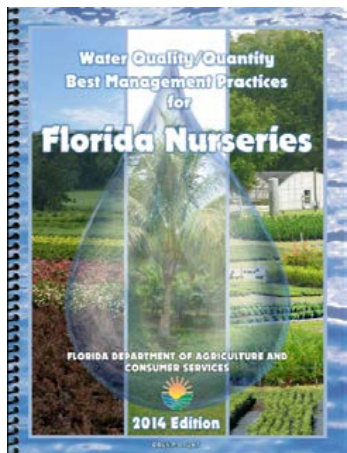
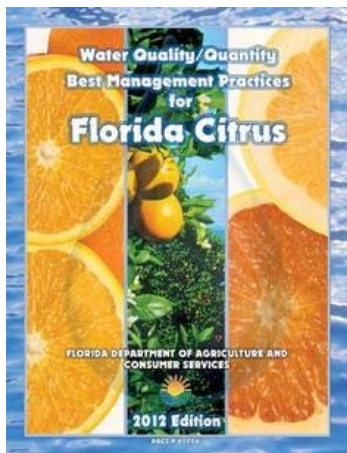
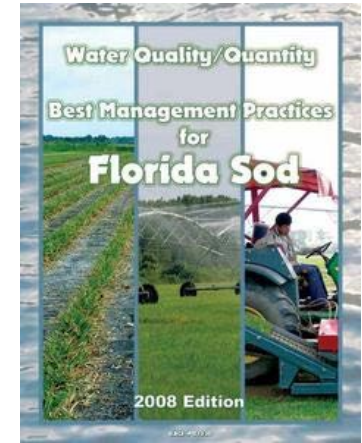
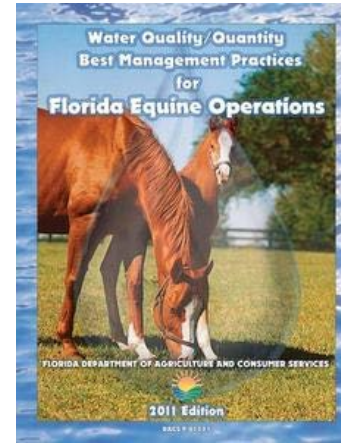
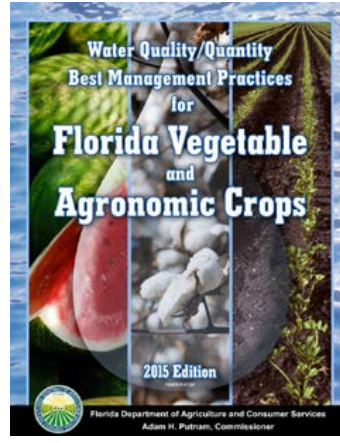
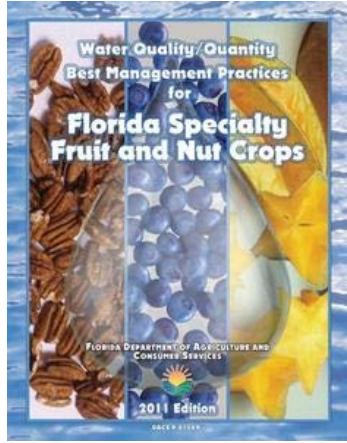
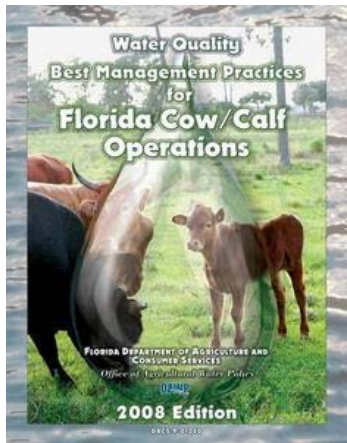


Water Resource Protection BMPs

- Surface Water Control Structures



BMP Manuals



Coming Soon!

Florida Small Farms

Practice Categories:

Nutrient Management
Irrigation Management
Water Resource Protection



Development of BMPs

- Manuals updated as necessary or as new research or needs arise
- Regular evaluation and review of existing manuals and BMPs
- Research projects
- Best available science and technology
- Technical and economic feasibility
- Research coordination committee
- Manuals are currently being evaluated and updated



BMP Enrollment and Verification

- Notice of Intent to Implement BMPs
 - Enrollment and Identification of BMPs appropriate to the specific parcel and commodity
- Annual BMP implementation surveys
- Implementation verification site visits
- Referral to the Department of Environmental Protection in the event of non-compliance
- Annual Report submitted to the Governor and Legislature as required by law
- Data management through the Field Staff Application (FSA)



OAWP Cost Share Programs

- Prioritization
 - “Bang for the buck”
 - Targeted areas
 - Economic feasibility
- Collaboration and Leveraging
 - Water management district programs
 - Statutory requirements as a collaborative agency
 - Federal agency programs (Natural Resources Conservation Service - USDA)



OAWP Role in Regulatory Planning Efforts

- Regional Water Supply Planning
 - Coordination with the water management districts
 - Land use, commodity type, and irrigation projections
 - Required by Florida law
- BMAP Development and Implementation
 - Land use coverage
 - BMP and cost share project implementation
 - Determination of agricultural nonpoint source allocation and credits
- Florida Statewide Agricultural Irrigation Demand (FSAID) GIS Tool



Other OAWP Policy Involvement

- Utilization of FSAID data to inform the development of minimum flows and levels
- Coordination with partners on outreach and education
- Interagency coordination as required by law or to implement funding opportunities
- Participation in state and federal restoration program planning and regulatory development
 - Central and South Florida Flood Control Project
 - Everglades Restoration
 - Northern Everglades and Estuary Protection Program



Other OAWP Responsibilities

- Binding Determinations – Applicability of the agricultural exemption in s. 373.406, F.S.
- Technical assistance to agricultural stakeholders
- Coordination of mobile irrigation labs
- Intra-agency coordination



Office of Agricultural Water Policy (OAWP)

- 51 positions
 - Policy
 - Finance and contracts
 - IT
 - Field staff (25 positions)
- Contractual field staff support provided by soil and water conservation district technicians
- \$45 million budget for FY 2019-2020



2020 Legislative Budget Requests

- Base budget for BMP implementation and cost share - \$30 million
- 10 additional FTE positions (\$1.2 million)
 - Implementation Verification Site Visits
 - Hemp BMP implementation
- \$1.5 million for water supply planning
 - FSAID data aggregation and model development to meet statutory obligations
 - Mobile irrigation labs
- \$25 million for fixed capital outlay projects
 - Larger scale
 - Upscaling research projects to farm scale
 - Innovative technology and BMP pilot projects
 - Research
- \$5 million- BMAP focused cost share short term projects



Thank You!

<http://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>

Christopher Pettit
Director
(850) 617-1700
Christopher.pettit@fdacs.gov



THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

9-18-19

Meeting Date

Bill Number (if applicable)

Topic OAWP overview

Amendment Barcode (if applicable)

Name Christopher Pettit

Job Title Director, DACS office of Ag Water Policy

Address 407 S. Calhoun St

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Email christopher.pettit@dacs.gov

City

State

Zip

Speaking: For Against Information

Waive Speaking: In Support Against (The Chair will read this information into the record.)

Representing Florida Dept. of Agriculture + Consumer Service

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

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Invasive Species Impacts, Prevention, and Enforcement



Senate Subcommittee on Agriculture, Environment, and General Government Appropriations

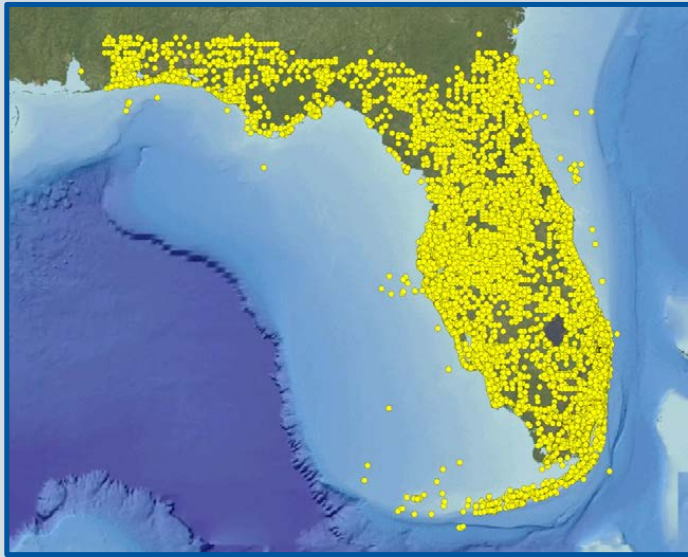
Kipp Frohlich, Director

Division of Habitat and Species Conservation



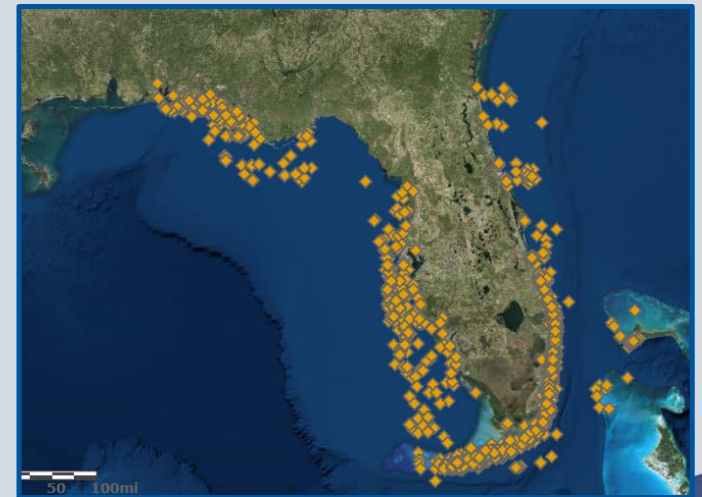
Florida Fish and Wildlife Conservation Commission

Nonnative Fish and Wildlife in Florida



Nonnative Fish and Wildlife in Florida 1924 – Present, FWC Data Base

- Almost 600 nonnative species observed
- At least 150 species reproducing
- Nearly 87,000 observations of nonnative wildlife (not including lionfish) since 1924
- Over 590,000 lionfish have been removed since 2014

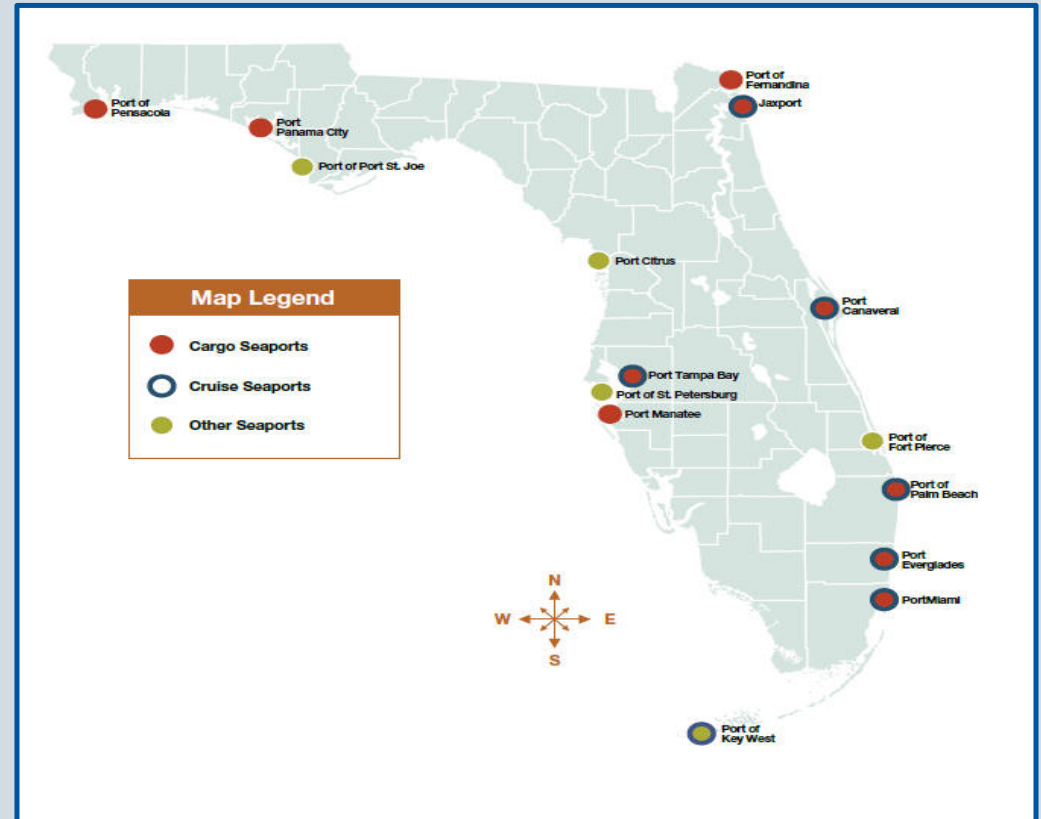


Lionfish reports in the USGS Nonindigenous Aquatic Species Database 1985-Present



Why Florida?

- Sub-tropical climate
- Hotspot for exotic pet trade
- 15 ports of entry



Fish and Wildlife Pathways



- Live Animal Trade
 - Aquaria Releases
 - Escaped/released captive wildlife/live animal
- Hurricanes and Natural Disasters



Species Introductions in Florida

	Number of Introduced Species	Introduced via Live Animal Trade (estimates)
Mammals	18	50%
Reptiles	180	92%
Freshwater Fish	130	88%
Amphibians	27	59%
Marine Fish	40	93%
Birds	198	68%
Total	593	80%



Nonnative Animal Business



- Over 224 million documented live animals imported annually
 - Sold in retail
 - Breeding
 - Export



Impacts of Invasive Fish and Wildlife

- Ecological impacts
 - Direct predation
 - Competition with native species
 - Habitat alteration
 - Disease and parasites
- Human health and safety
- Economic impacts

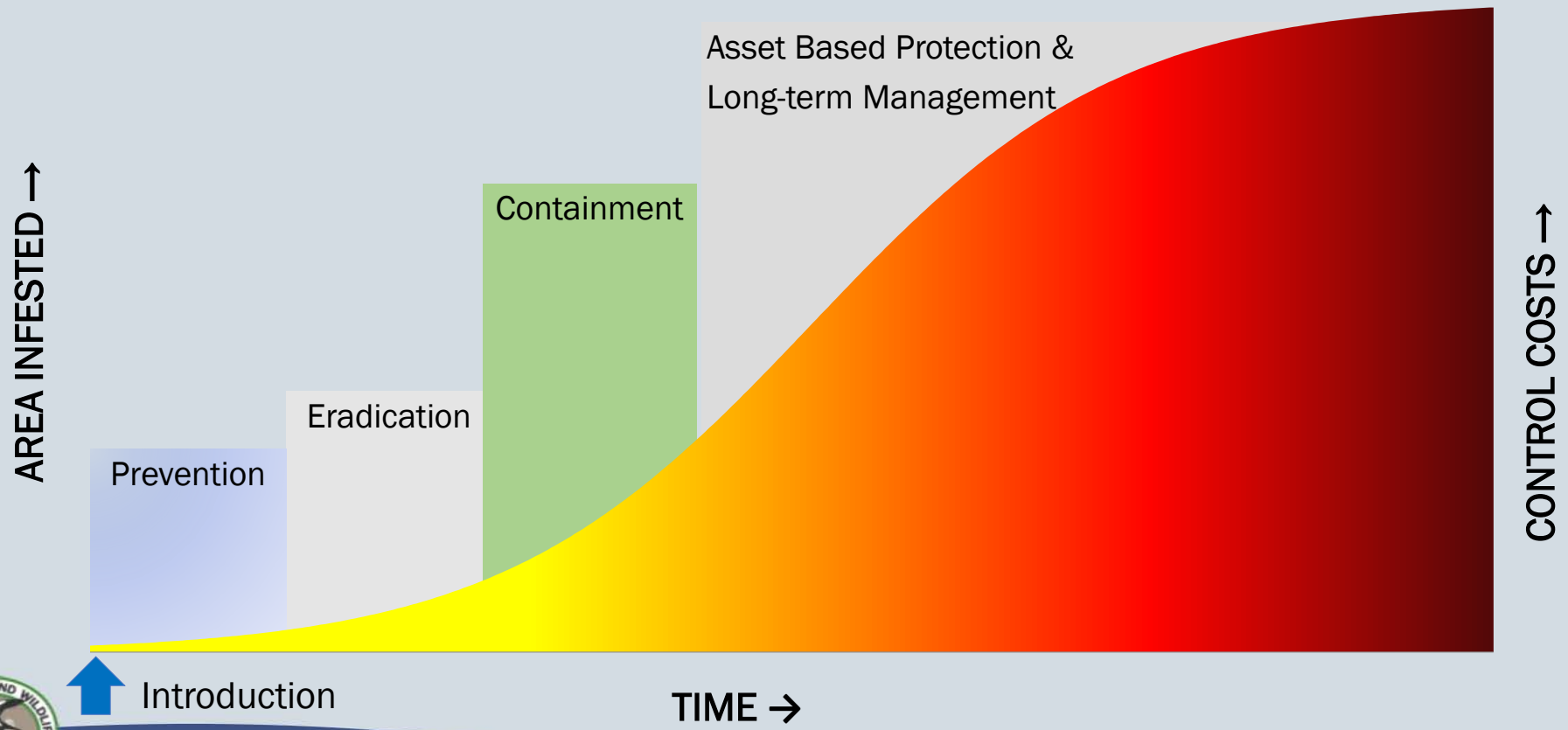


Economics of Invasive Species Management

- Economic Impacts
 - Property damage
 - Agriculture impacts
 - Tourism
- Management Costs
 - State and federal agencies
 - Local governments
 - Constituents



The Invasion Curve



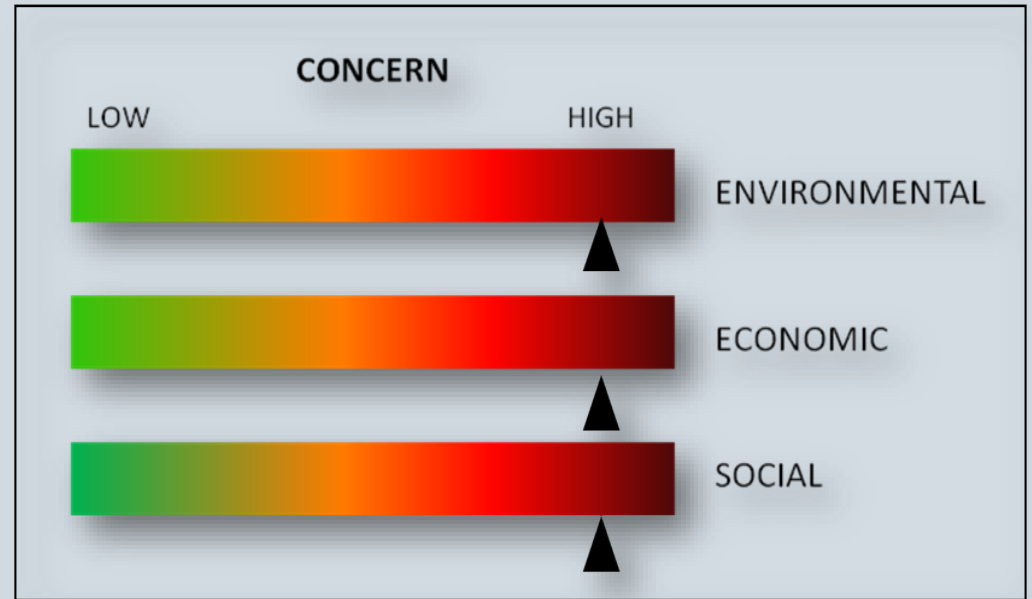
FWC's Role

- Prevention
 - Risk assessment/screening
 - Regulation
 - Enforcement
 - Education and Outreach
- Control and Management
 - Early detection/rapid response (EDRR)
 - Removal
- Research Support



Prevention: Risk Assessment/Screening

- Not all nonnative species are invasive
- Assessment of risk
- Level of concern may change based on location

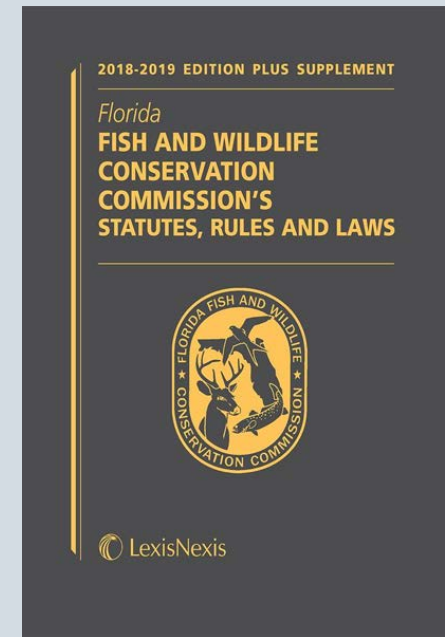


Prevention: Regulation

Rules and Statutes address ownership of fish and wildlife for both commercial use and personal pets

FWC has two captive wildlife classification systems:

- 1) Assess level of human risk
- 2) Assess invasive risk to the environment



Prevention: Enforcement

- Captive Wildlife
 - Mission: Oversee and enforce rules regarding the commercial and personal pet ownership of captive wildlife
- Port Investigations
 - Mission: Detect the unlawful commercial trade and trafficking of fish and wildlife species and prevent illegal importation, exportation and potential release of invasive species



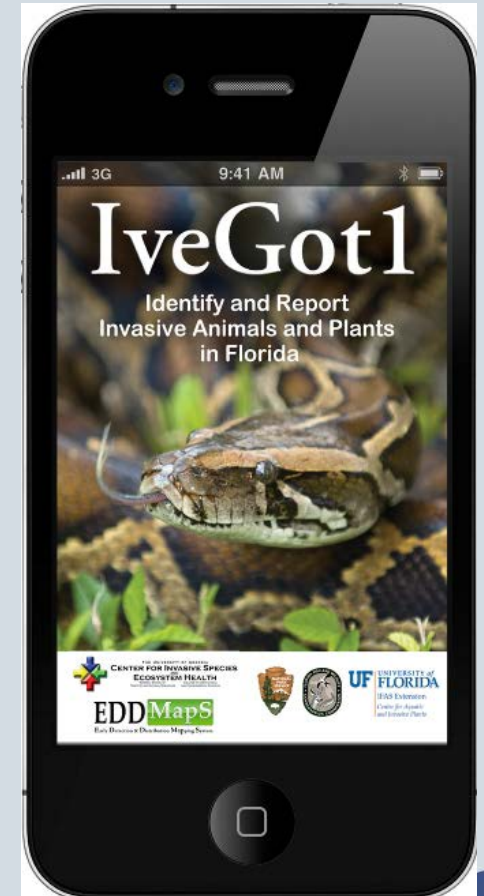
Prevention: Education and Outreach

- Exotic Pet Amnesty Program
- Awareness campaigns
- Outreach events
- Technical assistance
- Training



Control and Management: Early Detection/Rapid Response

- Reporting
- Verification
- Evaluation
- Response



Control and Management: Removal Efforts

- Burmese pythons
- Argentine black and white tegus
- Green iguanas
- Nile monitors
- Lionfish



Removal of Priority Species

Priority Species	Total Removed To Date	Total Removed 2018	Removal Method
Burmese Python	Over 9,000	1,894	Hand capture, firearms, air rifles
Lionfish	Over 590,000	Over 62,000	Spearfishing, trapping
Argentine Black and White Tegus	Over 7,500	1,086	Trapping, air rifles
Nile Monitors	Over 800	62	Trapping, air rifles, firearms
Green Iguanas	Over 4,000	3,561	Catch pole, hand capture, trapping, air rifles



Research Support

- Understanding impacts
- Detection
- Traps/lures
- Technology advancements



Recent Progress

- Expanded Prohibited Species List
- Florida Keys green iguana initiatives
- Lionfish initiatives
- Expanded python program
- Increases in paid contractors



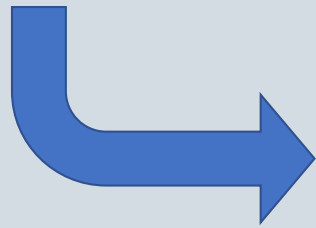
FWC Budget Nonnative Fish and Wildlife

Year	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
HSC- Nonnative Fish and Wildlife Program	\$1,046,583	\$1,077,836	\$2,655,611	\$2,673,233	\$2,497,215	\$2,429,498
Marine Fisheries- Lionfish	\$316,108	\$327,085	\$624,926	\$754,541	\$1,276,764	\$1,276,764
Law Enforcement- Captive Wildlife	\$2,766,452	\$2,766,452	\$3,738,613	\$3,400,544	\$3,790,686	\$3,790,685
Law Enforcement- Port Inspections	\$373,717	\$393,387	\$838,428	\$936,744	\$1,231,815	\$1,428,508
Total By Year	\$4,502,860	\$4,564,760	\$7,857,578	\$7,765,062	\$8,796,480	\$8,925,455



Future Direction: Making a Difference

- Improve coordination among partners
- Prohibit new high-risk species
- Increase funding for research
- Expand use of contractors
- Increase public understanding, support and participation



- More invasives removed
- Range expansion reversed
- Fewer impacts to native species
- Prevent future problems



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09/18/19

Meeting Date

Bill Number (if applicable)

Topic Invasive Species Impacts

Amendment Barcode (if applicable)

Name Kipp Frohlich

Job Title Director, Division of Habitat and Species Conservation

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Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing FWC

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

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Implementation Update

DMS-AST Merger

HB 5301/SB 1570

Jonathan Satter
Secretary
Florida Department of Management Services

Bill Summary

- Merged the Agency for State Technology into the DMS Division of Telecommunications to create the Division of State Technology
- Established the State Chief Information Officer reporting to the DMS Secretary
- Established a “Cloud-First” policy for state agencies
- Created the Florida Cybersecurity Task Force led by Lt. Governor Nuñez to study cybersecurity procedures, rules, and vulnerabilities and make recommendations
- Encourages the conversation of data-interoperability between agencies

Merger of AST into DMS

Initial Transition

- All FTE's transferred on July 1, 2019
- Positions continue to be updated to reflect organizational changes
- Organizational assessment underway

State Chief Information Officer

- National search for State CIO
- Final interviews underway, expected to be complete by early 2nd quarter

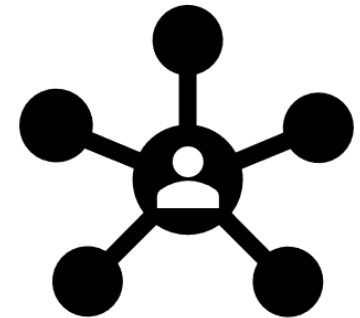
Strategic Priorities



1. Cloud Computing



2. Cybersecurity



3. Data Interoperability

1. Cloud-First Policy

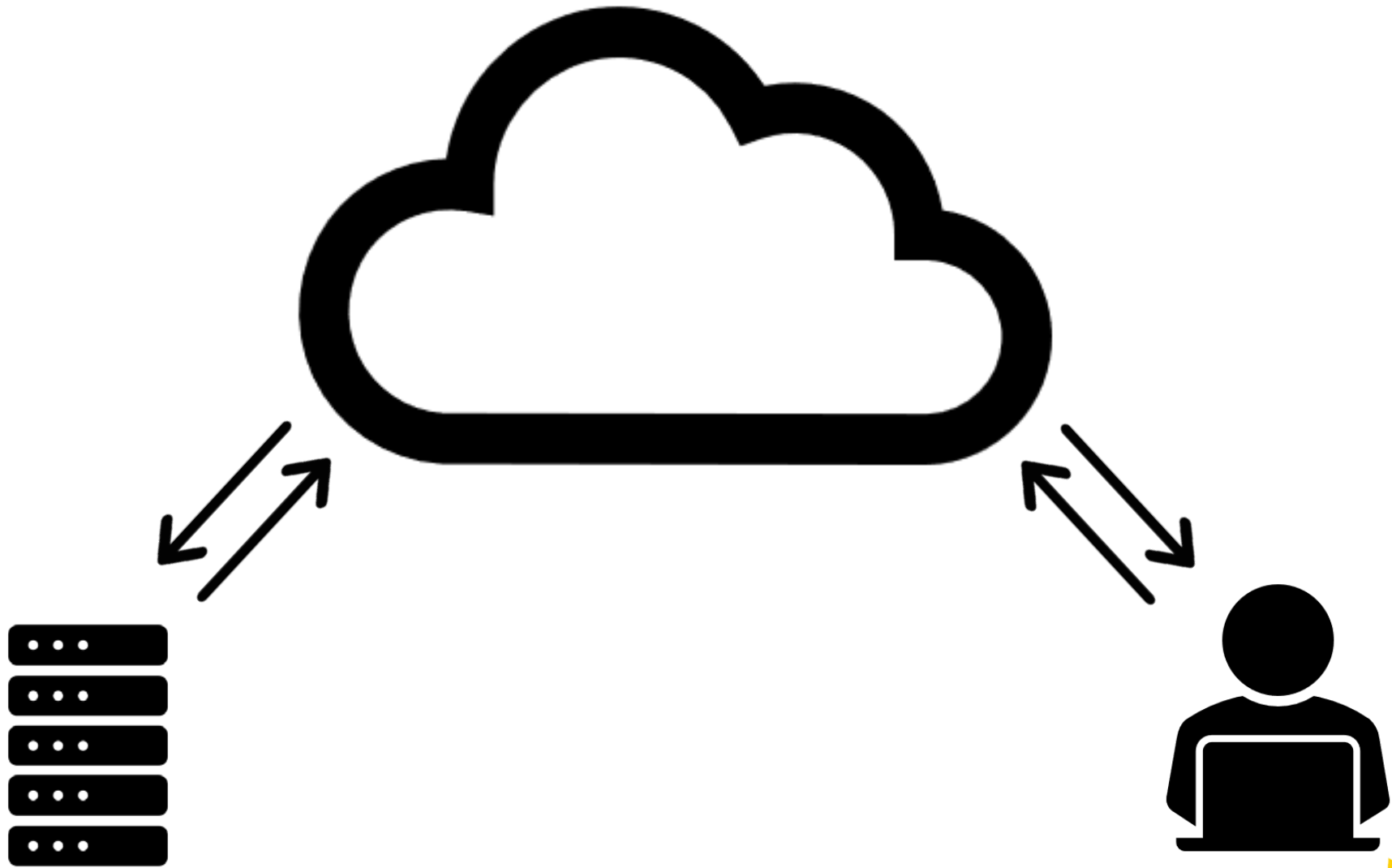
Policy Overview

- Creates a cloud-first policy for state agencies, requiring each agency to first consider cloud computing solutions when sourcing technology
- Requires DMS to establish best practices for the procurement of cloud computing services
- Requires DMS to appoint a State Data Center Director who has experience in leading data center facilities and cloud computing management

Cloud Rulemaking

- Collaborative process to provide guardrails
- Robust public comment with over 100 workshop participants
- Final rule expected before October 1

How does the Cloud work?



How is the Cloud protected?



Creating Efficiencies

Business Case

- The Department is currently in the process of procuring an independent consultant to conduct a business case
- The business case will examine options of how best to operate the state data center in full support of the cloud-first strategy
- The Department will report the findings to the Governor and Legislature for consideration

Application Strategic Plan

- Due by October 15, 2019 to be updated annually by each state agency
- Provides inventory of applications at the State Data Center
- Plan must identify an approximate timeline and readiness of transitioning to the cloud
- The State Data Center should utilize information from state agencies' strategic plans when determining services

2. Protecting Florida's Data

Cybersecurity

- State Chief Information Security Officer (CISO) is established to provide a strategic vision and plan for the enterprise
- Continued coordination with the Department of Homeland Security and the State University System
- Development of Florida's Cyber Disruption plan in coordinating with FDLE, DEM, and the National Guard
- Updated Agency guidance to reflect the increase in intellectual threats
- Support government entities with best practices related to Cybersecurity protocols.
 - October is Cybersecurity Awareness Month



Overview

- Established to review and provide recommendations for the improvement of the state's cybersecurity infrastructure, governance, and operations
- Meets quarterly and must submit a final report by November 1, 2020

Composition

- Chaired by Lt. Governor Jeanette Nuñez
- Representatives from the Private Sector
- Appointments forthcoming, with multiple meetings in the 2nd quarter

3. Data Interoperability

Overview

- Legislation requires DMS to recommend potential methods for standardizing data across state agencies that will promote interoperability and reduce the collection of duplicative data

Benefits of Interoperability

- Provide connections across policy silos
- Allows for decision makers to reference trends that may lead to better outcomes or cost-savings
- Improve customer service

QUESTIONS?

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9/18/19
Meeting Date

N/A
Bill Number (if applicable)

Topic DMS-AST Merger: Implementation Update

N/A
Amendment Barcode (if applicable)

Name Jonathan Satter

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Speaking: For Against Information

Waive Speaking: In Support Against
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Representing Florida Department of Management Services

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CourtSmart Tag Report

Room: EL 110

Case No.:

Type:

Caption: Senate Appropriations Subcommittee on Agriculture, Environment and General Government Judge:

Started: 9/18/2019 1:31:47 PM

Ends: 9/18/2019 2:43:38 PM

Length: 01:11:52

1:31:47 PM Sen. Mayfield (Chair)
1:33:40 PM TAB 3 - Presentation by the Department of Management Services on its Responsibilities Relating to the State of Florida's Information Technology
1:34:08 PM Jonathan Satter, Secretary, Dept. of Management Services
1:41:16 PM Sen. Berman
1:41:30 PM J. Satter
1:41:39 PM Sen. Berman
1:41:51 PM J. Satter
1:42:20 PM TAB 1 - Presentation on Agricultural Water Policy by Department of Agriculture and Consumer Services
1:42:31 PM Sen. Mayfield
1:42:40 PM Christopher Pettit, Director, Office of Agricultural Water Policy, Department of Agriculture and Consumer Services
1:45:04 PM Sen. Bean
1:45:29 PM C. Pettit
1:45:36 PM Sen. Mayfield
1:45:44 PM C. Pettit
1:47:28 PM Sen. Mayfield
1:47:39 PM C. Pettit
1:59:48 PM Sen. Mayfield
2:00:10 PM C. Pettit
2:01:38 PM Sen. Bean
2:01:54 PM C. Pettit
2:03:21 PM Sen. Bean
2:03:32 PM C. Pettit
2:04:43 PM Sen. Broxson
2:04:53 PM C. Pettit
2:05:57 PM Sen. Broxson
2:06:05 PM C. Pettit
2:07:08 PM Sen. Mayfield
2:07:26 PM C. Pettit
2:07:48 PM Sen. Mayfield
2:07:58 PM C. Pettit
2:08:40 PM Sen. Mayfield
2:08:59 PM C. Pettit
2:09:05 PM Sen. Mayfield
2:09:38 PM C. Pettit
2:11:11 PM Sen. Mayfield
2:11:42 PM TAB 2 - Presentation on Invasive Species Impacts, Prevention, and Enforcement by the Florida Fish and Wildlife Conservation Commission
2:11:51 PM Kipp Frohlich, Director, Division of Habitat and Species Conservation, Fish and Wildlife Conservation Commission
2:31:15 PM Sen. Powell
2:31:54 PM K. Frohlich
2:32:49 PM Sen. Broxson
2:33:35 PM K. Frohlich
2:34:51 PM Sen. Broxson
2:35:23 PM K. Frohlich
2:35:27 PM Sen. Bean
2:35:52 PM K. Frohlich
2:36:45 PM Sen. Stewart
2:37:01 PM K. Frohlich
2:38:21 PM Sen. Mayfield

2:38:37 PM	K. Frohlich
2:39:19 PM	Sen. Mayfield
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