# View from Above: A National Look at Invasive Species





## **Kerry Wixted**

Amphibian, Reptile & Invasive Species Program Manager











# **Our Mission**

To support and advocate for State, Provincial, and Territorial responsibility for science-based fish & wildlife conservation.

# **Strategic Focus Areas**

- 1. Fish & Wildlife Funding, Policy & Legislative Advocacy
- 2. Relevancy, Diversity & Inclusiveness
- 3. Coordinated Conservation Initiatives
- 4. Member Fiscal Support
- 5. Communication, Training & Capacity Building
- 6. Fiscal & Operational Excellence





## Committee-Driven Conservation

Over 70 committees, subcommittees, & working groups

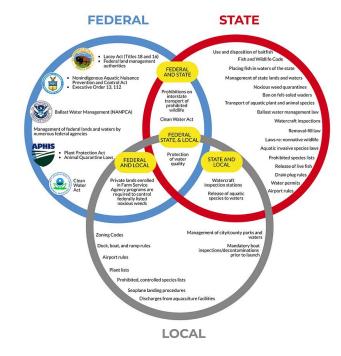
- Amphibian & Reptile Conservation
- Invasive Species
- Law Enforcement
- Legal
- National Fish & Wildlife Health



Invasive species are regulated at multiple levels



Photo Credit: Mark Yokoyama CC by NC ND 2.0





# Invasive Species Committee

Dr. Nicole Angeli (VI)- Chair Kim Bogenschutz (IA)- Vice Chair

Objectives:

- to provide a national forum for exchange of information
- to identify and coordinate needs and actions among stakeholders to strategically address high priority invasive species threats
- to promote sound policies





# Invasive Species Committee

- AIS Commission
- Invasive Species Advisory Committee (ISAC)
- Organisms in Trade (OiT)
- NEDRRIS
- IS Laws
  - Government Affairs
  - VT Webinar

# **Aquatic Invasive Species Commission Report**

YETI<sup>®</sup>, Yamaha Marine, Boat U.S., B.A.S.S., the American Sportfishing Association, National Marine Manufacturing Association, Theodore Roosevelt Conservation Partnership, & AFWA

- 1. Update federal law & policy
- 2. Increase federal funding
- 3. Enhance collaboration
- 4. Maintain water access
- 5. Increase education and outreach





# **Organisms in the Trade**

Engage with the aquaculture & pet industry to explore opportunities to manage risks within supply chains and retail settings to reduce the invasion risks of hitchhiking organisms within pet commodities



# Crayfish Hitchhikers

- North Carolina, Idaho, Wisconsin, Pennsylvania, Alaska, Vermont, Nebraska & South and North Dakota had crayfish
- Oregon, Idaho, Wisconsin had bullfrog tadpoles





# **AIS in Commerce**

- Industry Best Practices & Guidelines
- Inspection & Monitoring
- Information & Education
- E-Commerce
- Labeling & Recordkeeping Regulations & Enforcement
- Information Access & Sharing

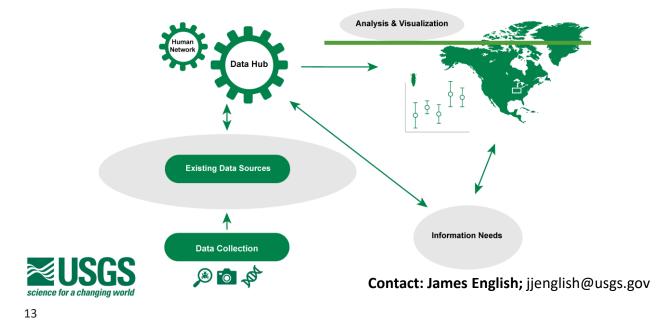
## Contact: Leah Elwell;

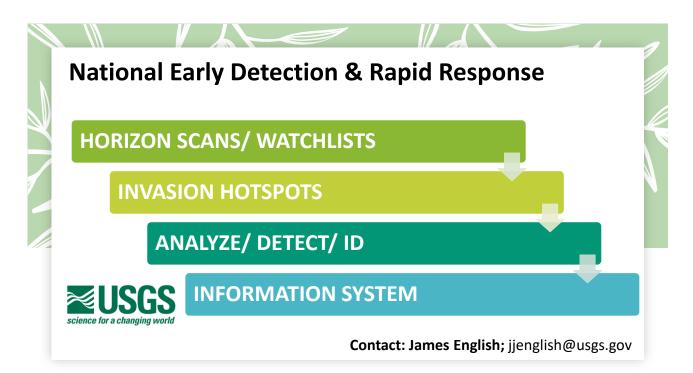
leah@conservationcollaborations.com

# Aquatic Invasive Species in Commerce Summit

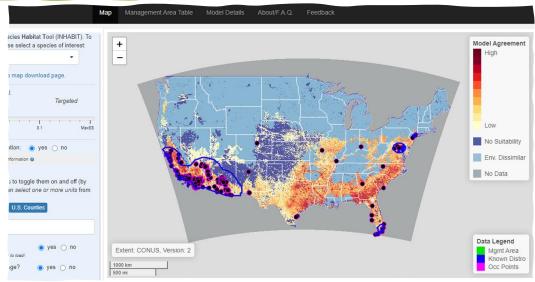
Developing Solutions to Mitigate Risks March 8, 2023 10am-1pm Pacific Time

# National Early Detection, Rapid Response





# **INHABIT Tool**

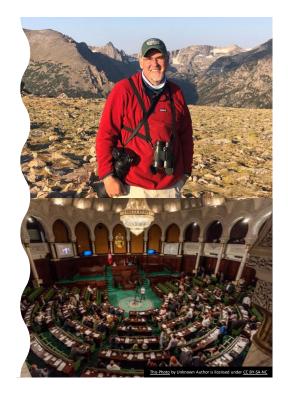


Contact: Catherine Jarnevich; jarnevichc@usgs.gov



# **Government Affairs**

- Lacey Act Amendments of 2021 (S.626)
- COMPETES Act (H.R. 4521 and S.1260)
- Recovering America's Wildlife Act (RAWA)



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# **Injurious Wildlife & the Lacey Act**

Title 18 (18 U.S.C. 42) allows the Secretary of the Interior to prohibit importation and some shipment of wildlife species that are officially designated as <u>injurious</u>



<section-header><image/></section-header>	1	96 mammals
	Â.	4 birds
	-	431 fish*
	~	236 amphibians*
	*	8 mollusks & crustaceans
	Ŵ	10 reptiles

## **Injurious Reptile Species** I.

Common Name	Family, Genus, or Species	Effective Date
Anaconda, Beni	Eunectes beniensis	April 9, 2015
Anaconda, DeSchauensee's	Eunectes deschauenseei	April 9, 2015
Anaconda, green	Eunectes murinus	April 9, 2015
Anaconda, yellow	Eunectes notaeus	March 23, 2012
Python, Burmese	Python bivittatus (originally listed as Python molurus)	March 23, 2012
Python, Indian	Python molurus	March 23, 2012
Python, northern African	Python sebae	March 23, 2012
Python, reticulated	Python reticulatus (or Broghammerus reticulatus, or Malayopython, reticulatus)	April 9, 2015
Python, southern African	Python natalensis	March 23, 2012
Snake, brown tree	Boiga irregularis	May 25, 1990; December 13, 1991 C

# **History of Success**



Management of Biological Invasions (2020) Volume 11, Issue 3: 356-371

#### Viewpoint

A century of injurious wildlife listing under the Lacey Act: a history

Susan D. Jewell

U.S. Fish and Wildlife Service, Fish and Aquatic Conservation, 5275 Leesburg Pike, Falls Church, VA 22041, USA E-mail: susan\_jewell@fws.go

Abstract

## Citation: Jewell SD (2020) A century of injurious wildlife listing under the Lacey Act: a history. Management of Blological I mations 11(3): 356–371, https://doi.org/10 391/pbb/2000.11.2022 3391/mbi

Received: 8 May 2020 Accepted: 20 July 2020 Published: 12 August 2020 Thematic editor: Catherine Jarnevich Copyright: © Jewell

In its 120-year history, the major injurious wildlife provision of the Lacey Act has remained nearly intact. The purpose of the Federal law has always been to protect the United States from the introduction of invasive and othervise harmful species. Amendments along the way have transformed the law, sometimes narrowing and sometimes broadening. Here for the first time, the major changes to the injurious wildlife law from 1900 to the current law are compiled to provide a history that is critical to understanding how the nation's oldest invasive species law has varied in its ability to prevent wildlife invasions. In 1900, under the oversight of the U.S. Deacotment of A originultica the native neared law neoblised the importation of any. ra tha nawli

## ~94% species listed preemptively

None of those have become established



# **Updates**

- 2017 USARK v. Zinke
  - Allows interstate transport in continental U.S.
- S. 626- Not passed
  - Prevent interstate transport
  - Emergency listing
  - Presumptive prohibition

# **COMPETES Act-**Lacey Act provisions

- Prevent interstate transport
- Change liability by adding "knowingly"
- Emergency listing
- Presumptive prohibition



By: Sam Stukel/ USFWS

CHIPS and Science Act (H.R.4346) Lacey Act Provisions Removed

# **Recovering America's Wildlife Act** I'M NOT DEAD YET! HAPPY

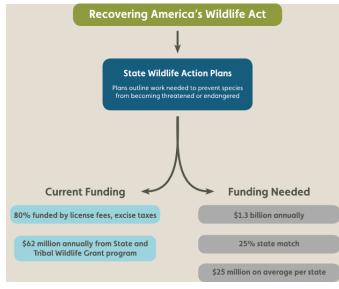
# **Recovering America's Wildlife Act**

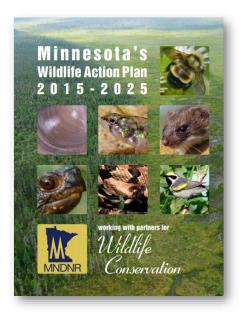


- \$1.4 billion state/territory funding & \$97.5 million tribal funding
  - 25% partner match
- Competitive Innovation Grants
- Funding can go to:
  - Conservation Education
  - Law Enforcement
  - Disease Prevention & Management
  - Invasive Species



# **A Legislative Solution**





# **Current Progress & Next Steps**



- Introduced into Senate
- Sign-on Letter
- SWAP Revisions

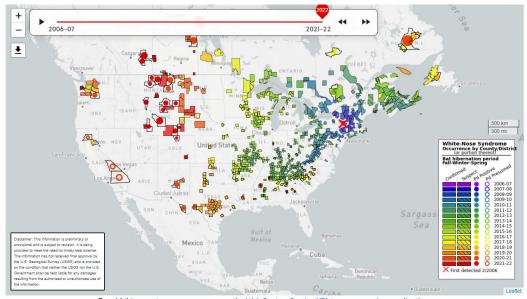


FWC/ Justin Davis



# Wildlife Diseases

USFWS/Ann Froschauer



## Whitenose Syndrome

To add this map to your own map copy the Web Feature Service URL to your mapping application.

# Whitenose Syndrome

- State of the Bats- just released!
- Ongoing research:
  - hosts, pathogen, environment and disease
  - variation in susceptibility and impacts
  - mechanisms of survival
  - identify and develop tools to disrupt disease triad
  - support populations



Pete Pattavina/ USFWS

Contact: Leanne Burns; lburns@fishwildlife.org

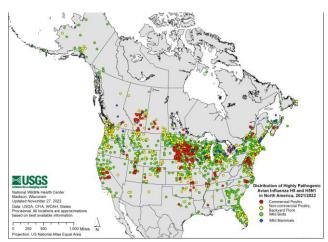
# Batrachochytrium salamandrivorans (Bsal)



# Highly Pathogenic Avian Influenza (HPAI)

- Detected in 49 states
- Mammalian & avian hosts
- Impact research ongoing
- Emphasis on biosecurity
- Vaccine development

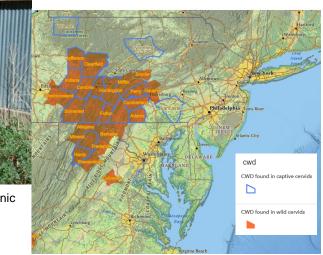




# **Chronic Wasting Disease**



Terry Kreeger, Wyoming Game and Fish and Chronic Wasting Disease Alliance.



# OneHealth

- Focuses on interconnection between people, animals, plants, & shared environment
- Regional disease coordinators
- AFWA
  - Resolution
  - Incorporating state agency expertise & resources





## **Upcoming Webinars**



## Apr 27, 2023 03:00 PM ET

Pesky Pentastomes: Parasitic Crustaceans Coming to a State Near You



May 24<sup>th</sup>, 4:00 PM Eastern Time

# **Questions?**



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