

David Shindle
Florida Panther Coordinator
U.S. Fish and Wildlife Service





Geographical Perspective: The Florida Panther







Geographical Perspective: The Florida Panther





Geographical Perspective: The Puma



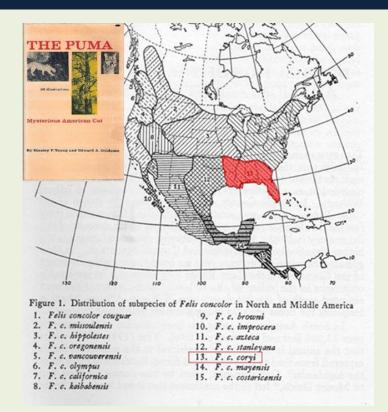








Taxonomic Perspective: Florida Panther



Young and Goldman (1946)

15 North American Subspecies
Skull Morphology
Geography

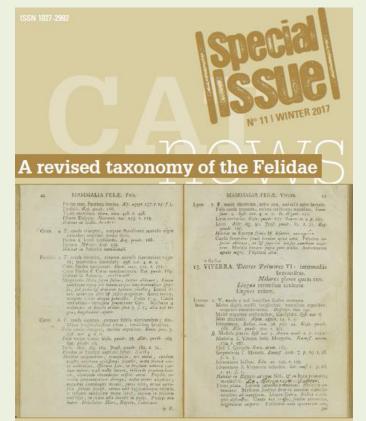


Culver et al. (2000)

1 North American Subspecies Molecular Genetic Analysis

U.S. FISH & WILDLIFE SERVICE

Taxonomic Perspective: Florida Panther







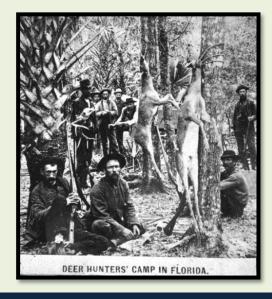




Historical Perspective: How Did We Get Here?









1771 – 250,000 lbs of deer hide exported from Pensacola and Mobile

1887 – Florida authorizes \$5 bounty

1950 – Regulated as game animal

1958 – Protected by State of Florida

1967 – Listed as Federally Endangered





Historical Perspective: "Last of a Breed"

OUNTY CHRONICLE, March 28, 1968



LAST OF A BREED-A hundred years ago the ancestors of this Florida panther were nature's king in this area. Today, what few remain, prove a detriment to cattlemen and poultry raisers. This panther, weighing well in excess of 100 pounds, was killed by Deputy Sheriff Lloyd Shelton after it had been reported to be attacking cattle on a farm near inverness. Helping him display the animal is, from left to right: Deputy Sheriff R. G. Holden, Shelton, Joe Law and Sheriff Burton R. A hundred years ago the ancestors of this Florida panther were nature's king in this area. Today, what few remain, prove a detriment to cattlemen and poultry raisers.

> **Citrus County Chronical** March 28, 1968





Historical Perspective: 1973-74 WWF Surveys



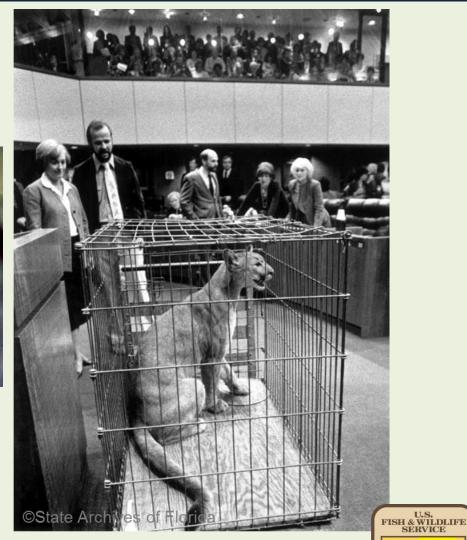




Historical Perspective: The State Animal

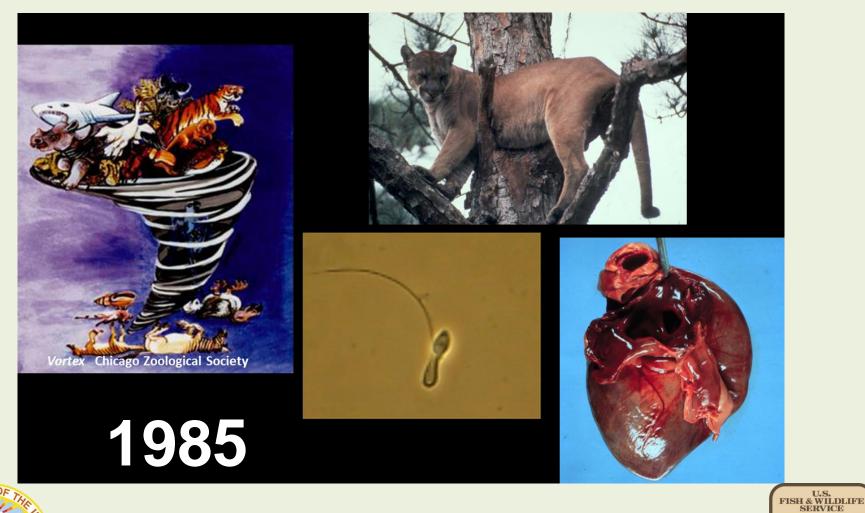


1981-1982





Historical Perspective: Population on the Brink

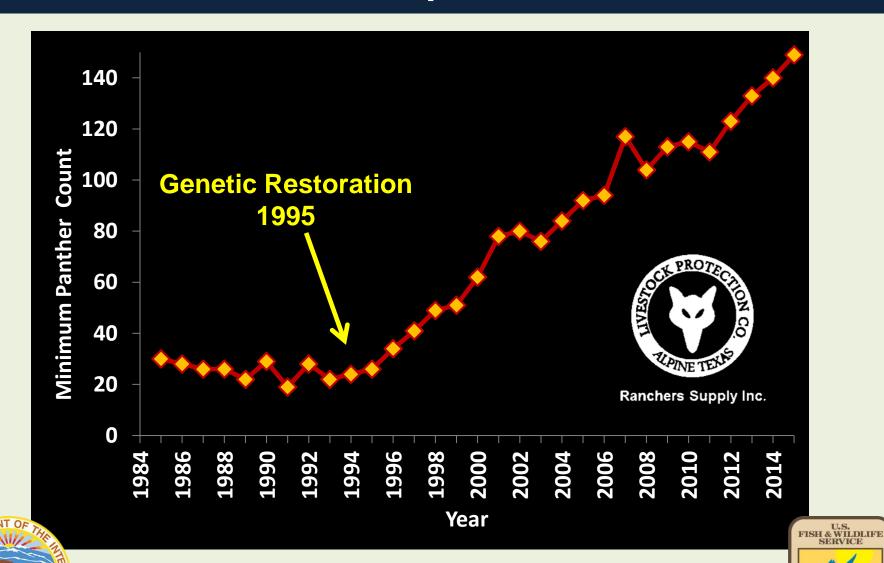




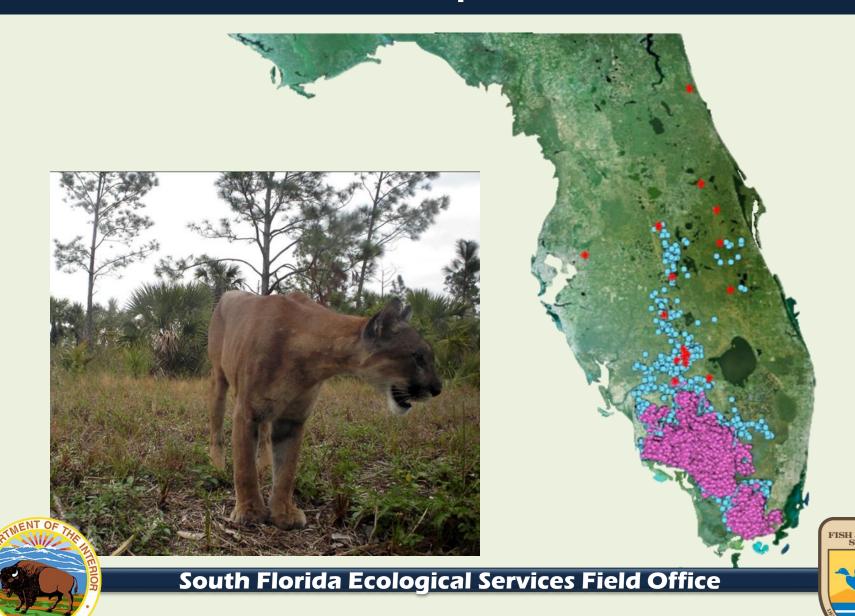
Historical Perspective: A Genetic Rescue



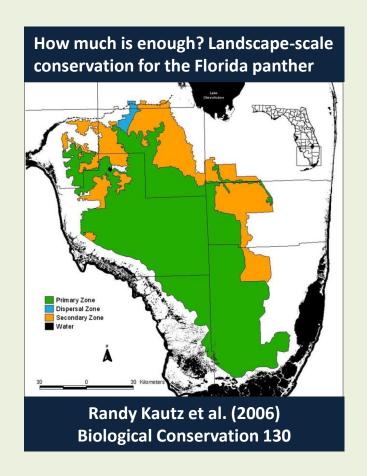
Where Are We Now? A Population Rebound

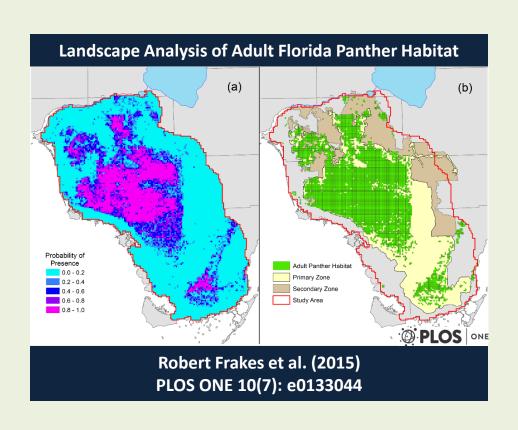


Where Are We Now? A Population Rebound



Population Needs: Habitat, Habitat, and Habitat









Population Needs: Importance of Agricultural Lands









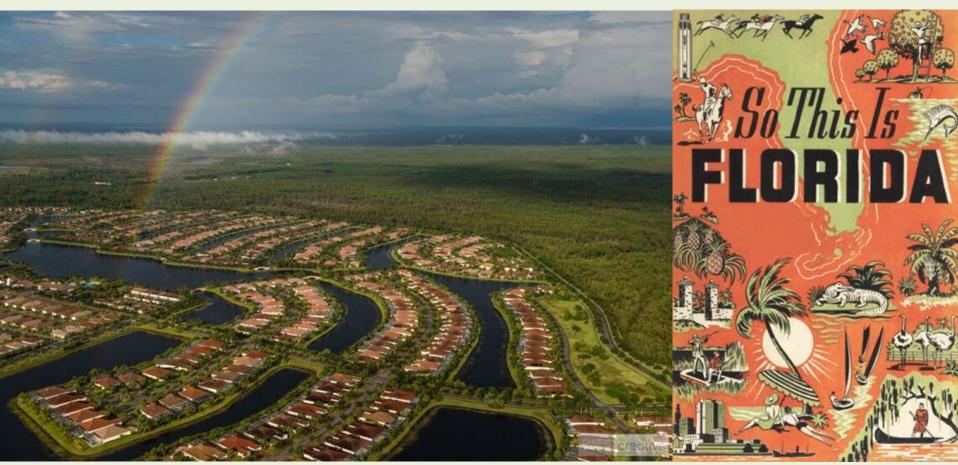
Florida's Working Ranchlands Sustain the Panther Population







Persistent Threats: Habitat Loss and Population Growth







USFWS Review of the Eastern Collier Multiple Species Habitat Conservation Plan

Applicant:

Eastern Collier Property Owners, LLC

In collaboration with:

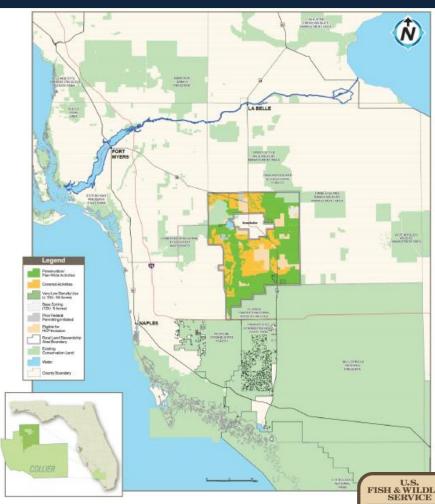
Defenders of Wildlife Florida Wildlife Federation Audubon of Florida Audubon of the Greater Western Everglades

Proposed ~152,000 Acre ECMSHCP Area

~45,000 Acres of Private Land Developed

- ~107,000 Acres of Private Land Preserved
- + Establishment of the Marinelli Fund for species conservation activities.

http://easterncollierhcpeis.com/



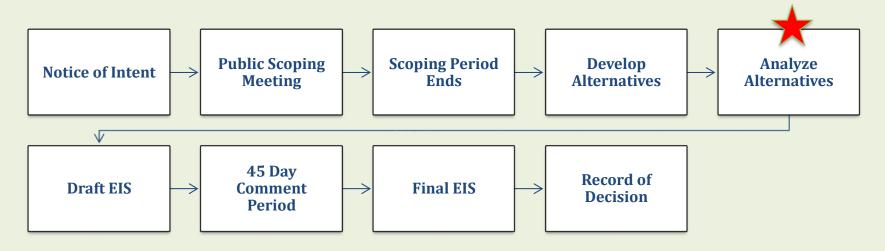


Eastern Collier Multiple Species Habitat Conservation Plan Environmental Impact Statement





= Where are we now?



http://easterncollierhcpeis.com/



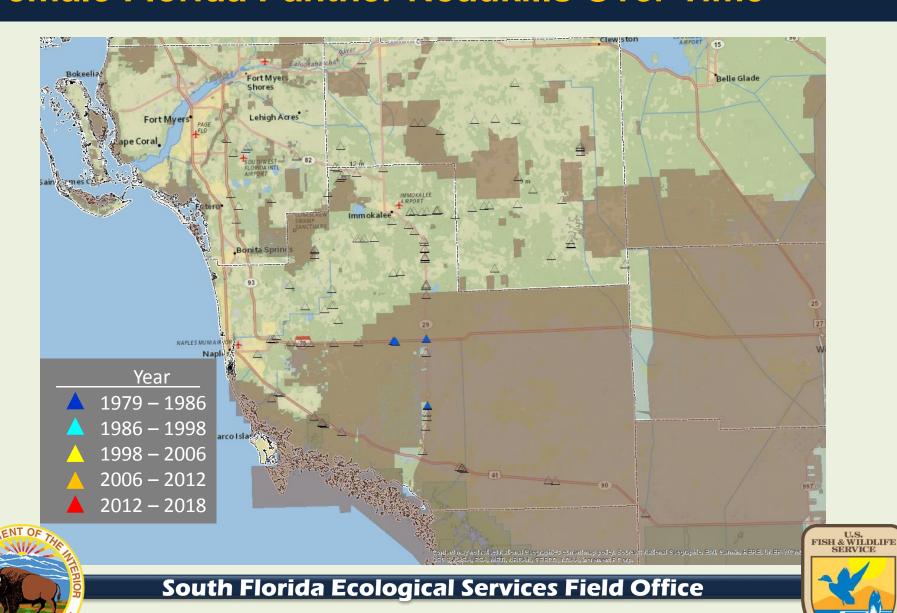


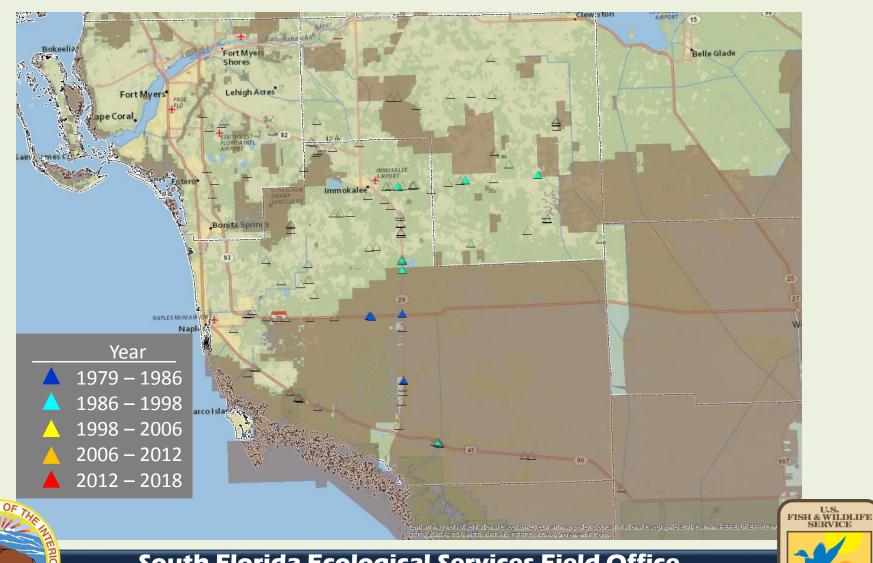
Florida Panther Recovery: Persistent Threats and Challenges

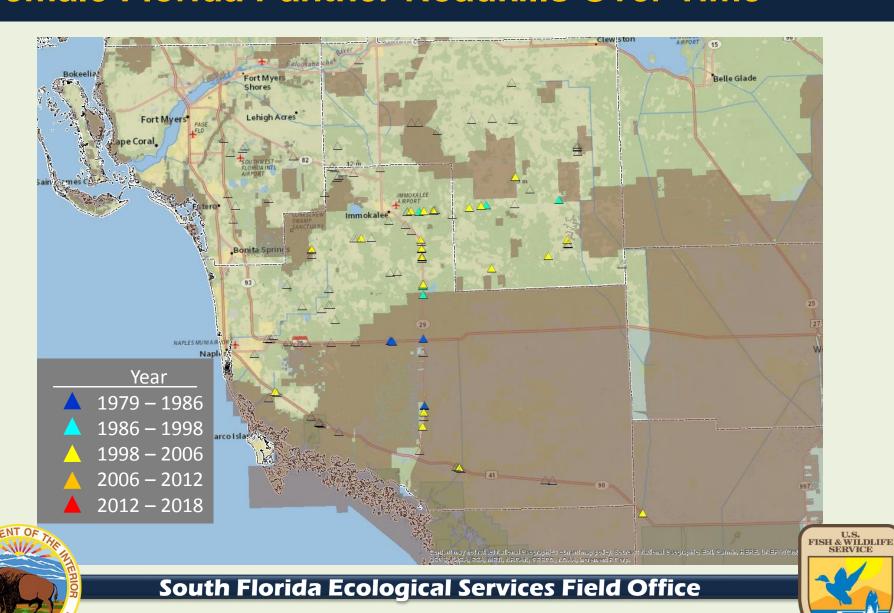


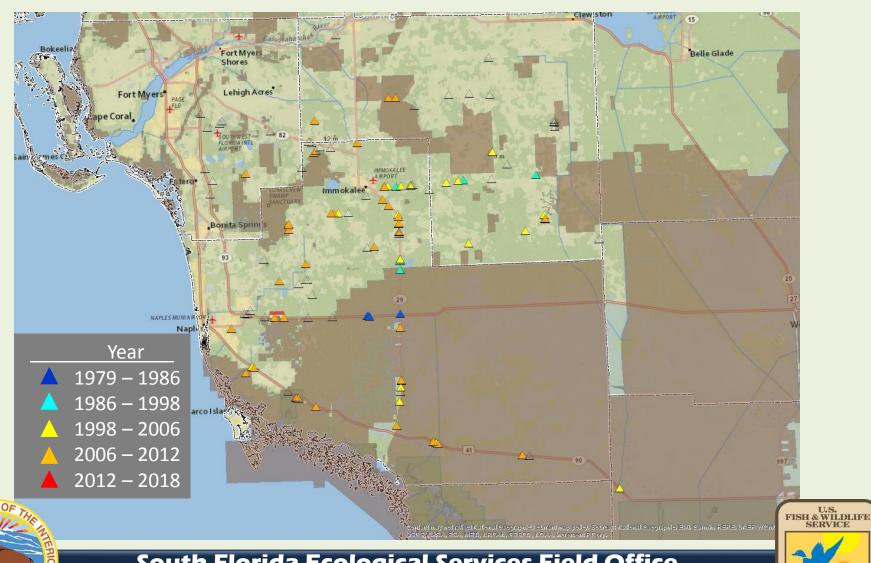
Persistent Threats: Vehicular Mortality

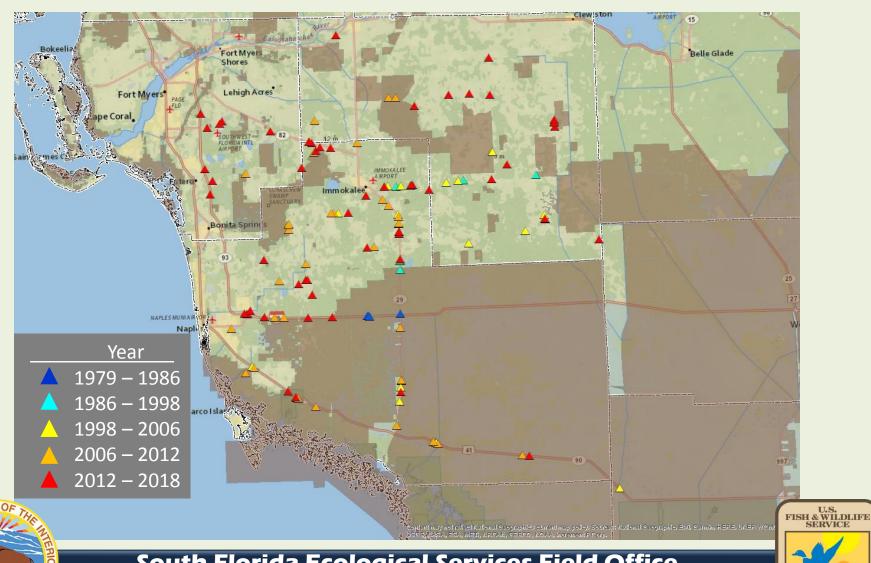










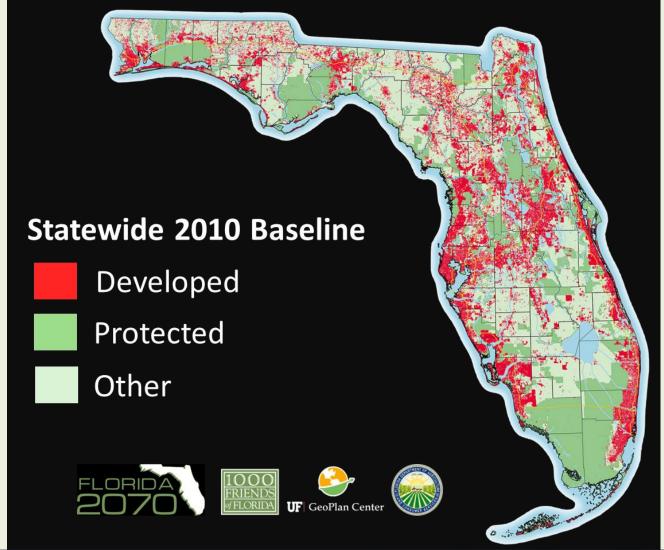


Ameliorating the Threat: Vehicular Mortality





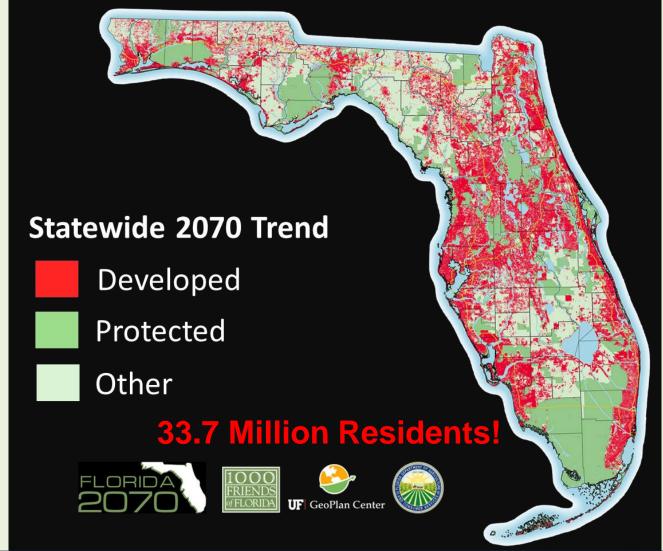
Persistent Threats: Habitat Loss and Population Growth







Persistent Threats: Habitat Loss and Population Growth









Persistent Challenges: Panther-Human Coexistence

"Bear habitat is more than just space on the ground. It's the level of human acceptance that exists for them." Chris Servheen, Former USFWS Grizzly Bear Recovery Coordinator





Persistent Challenges: Living with People





Persistent Challenges: Panther-Human Coexistence





Who gave the panther the gate code?





Mountain Lion-Human Conflict: Colorado







Panther-Human Conflict: Southwest Florida



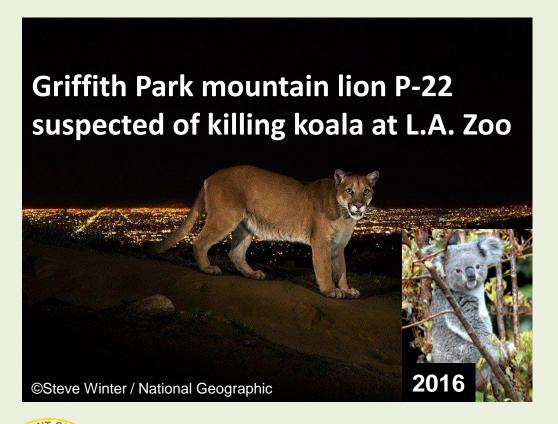




More People, More Panthers, More Problems



Puma-Human Conflict: Hot Pockets









Puma Attacks on Humans: Western United States







Originally published May 19, 2018 at 1:16 pm Updated May 19, 2018 at 9:44 pm



1 of 5 Agents with the Washington state Department of Fish and Wildlife tracked and killed the cougar believed responsible for attacking two mountain bikers in the woods northeast of Snoqualmie on Saturday.
One man was fatally injured and the other is in satisfactory condition at Harboryiew Medical Center.



South Florida Ecological Services Field Office



Florida Panther Interagency Response Plan

Interagency Florida Panther Response Plan

Florida Fish and Wildlife Conservation Commission 620 South Meridian Street Tallahassee, FL 32399-1600

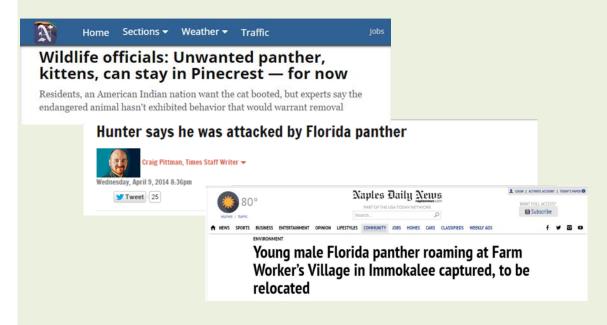
> U.S. Fish and Wildlife Service 1875 Century Blvd. Atlanta, GA 30345

> > National Park Service 100 Alabama St. SW 1924 Building Atlanta, GA 30303









An interagency plan for dealing with human-panther interactions and conflicts to promote public safety while assuring the conservation of the panther.







Florida Panther Interagency Response Plan







Categorizes Human-Panther Interactions as:

- 1. Sighting: An observation or fleeting glimpse of a panther from a distance
- 2. Encounter: An unexpected direct meeting or series of meetings over a short period between and human and a panther. Panther exhibits nonthreatening behavior
- 3. Incident: An interaction between a human and a panther as described in an Encounter except that the panther displays potentially threatening behavior
- 4. Threat: An unprovoked aggressive or predatory behavior toward a human that requires the individual to take defensive action to avoid direct contact
- 5. Attack: A direct, physical contact between a human and a panther involving aggressive panther behavior



Florida Panther Interagency Response Team



- Panther Biologist
- Law Enforcement
- Public Information Officer



- FPNWR Biologist
- Law Enforcement
- Public Information Officer
- FPNWR Manager
- Panther Coordinator

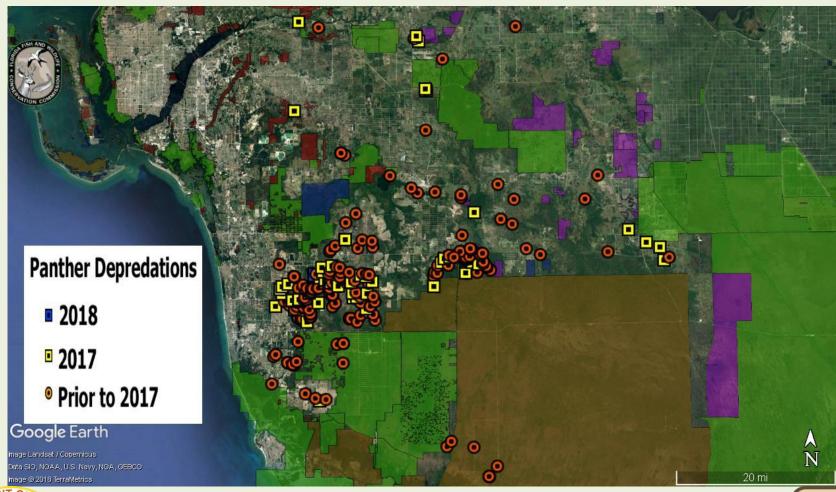


- Panther Biologist
- Law Enforcement
- Public Information Officer





Panther-Human Conflict: Depredations

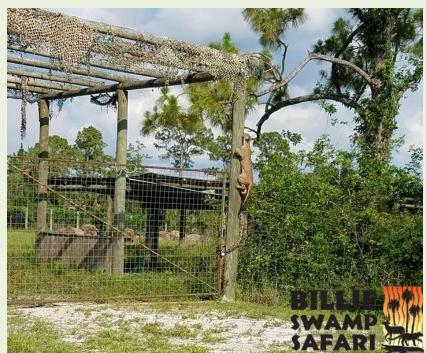






Panther-Human Conflict: Pets and Hobby Livestock





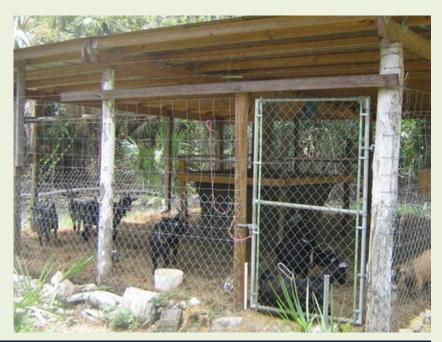
Don't Fence Me Bro!





Panther-Human Conflict: Pets and Hobby Livestock





Secure animals in predator-resistant enclosures!!!





Panther-Human Conflict: Pets and Hobby Livestock







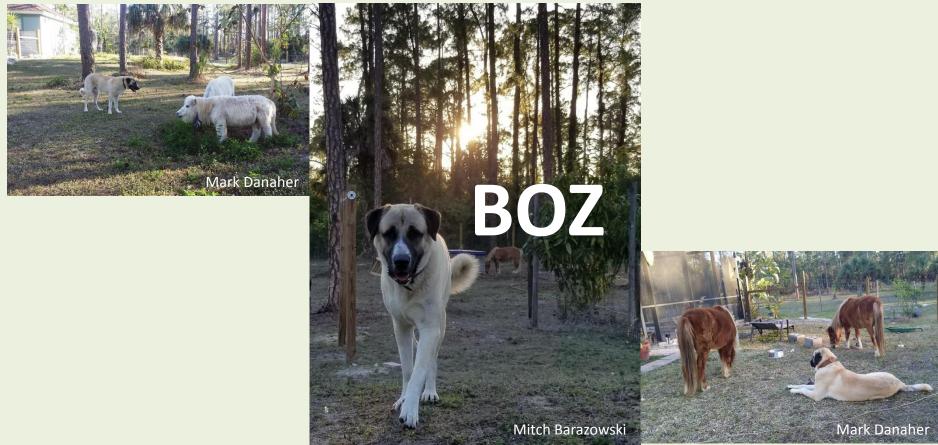


Pen Building Assistance Program





Panther-Human Conflict: Livestock Guardian Dogs







Panther-Human Conflict: Livestock Guardian Dogs









Panther-Human Conflict: Livestock Depredations







Panther-Human Conflict: Livestock Depredations



Panther-Human Conflict: The Nature of the Beast







Livestock Depredations: The Missing Calf







Panther-Human Conflict: Livestock Compensation



Panther-Human Interactions







Presence Does Not Constitute A Threat
Panthers Can Be Active and Seen During The Day
Curiosity and Indifference are Common Panther Behaviors





Panther Sightings: A Religious Experience



Florida Panther at Corkscrew Swamp

© Andrea Wipperfurth





Panther Encounters: A Lion in the Alcove

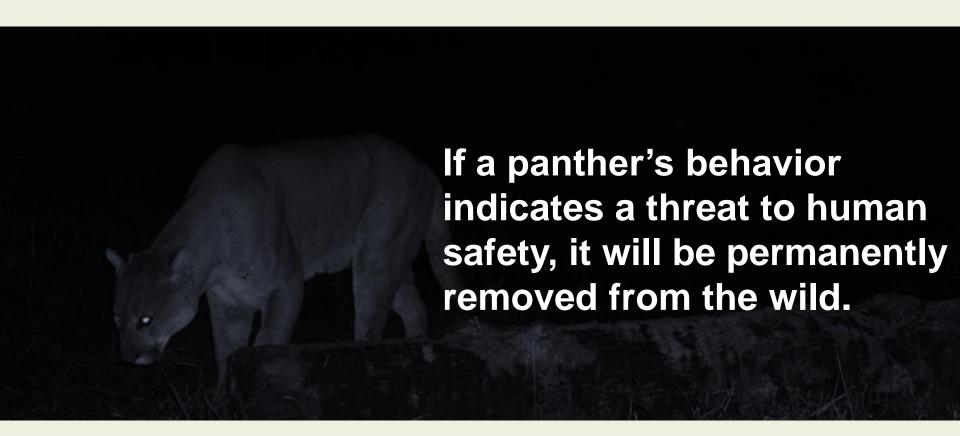








Persistent Challenges: Panther-Human Coexistence







Response Plan in Action: Removal of FP243







Persistent Threats: Social Intolerance













Florida Panther Recovery Plan: Third Revision 2008

U.S. Fish and Wildlife Service

Florida Panther

Recovery Plan



Photo by Mark Lotz, Florida Fish and Wildlife Conservation Commission

RECOVERY GOAL: Achieve long-term viability of the Florida panther to a point where it can be reclassified from endangered to threatened, and then removed from the Federal List of endangered and threatened species.

RECOVERY CRITERIA <u>Delisting</u>

- 3 viable, self-sustaining populations of at least 240 individuals, each established and maintained for a minimum of 12 years.
- Sufficient habitat quality, quantity, and spatial configuration to support these populations is protected or secured for the long-term.

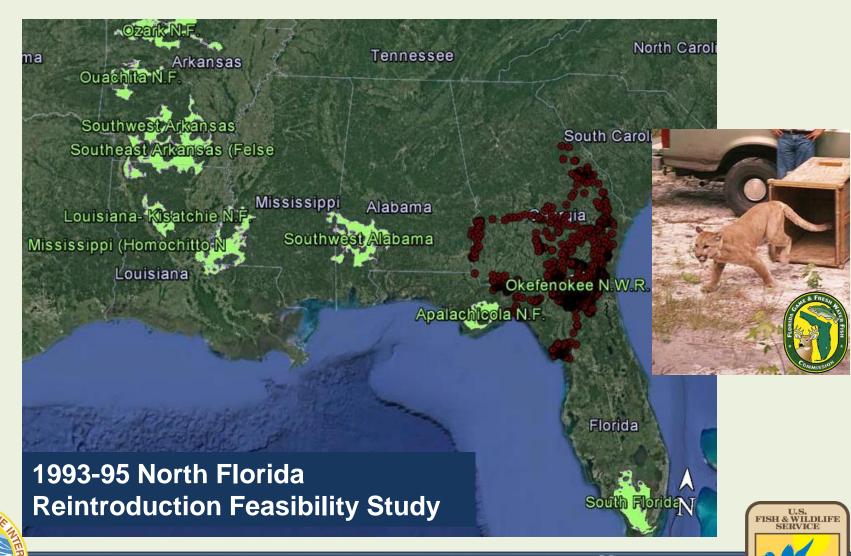
3rd Revision



South Florida Ecological Services Field Office



Prospects for Reintroduction



South Florida Ecological Services Field Office

Florida Panther Recovery Implementation Team Purpose: Assist the Service with implementing the 2008 Florida Panther Recovery Plan

- Formed in 2013
- Members representing USFWS, NPS, FWC, Private Landowners, Conservation NGOs, Cattle Ranchers, and Sportsmen.
- Focus on implementing high-priority action items:
 - Vehicular Mortality (sub-team formed)
 - Inventory and Monitoring (sub-team formed)
 - Recovery Criteria (sub-team formed)
 - Private Lands Incentives
 - Range Expansion
 - Habitat Restoration and Management
 - Genetic Management Plan
 - Panther Taxonomic Status





Florida Panther Recovery Implementation Team Transportation Sub-Team



Purpose: To identify and prioritize connectivity solutions in high-risk transportation areas within south Florida and in potential panther expansion areas.

https://www.fws.gov/verobeach/FloridaPantherRITTransportation.html



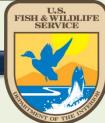
South Florida Ecological Services Field Office



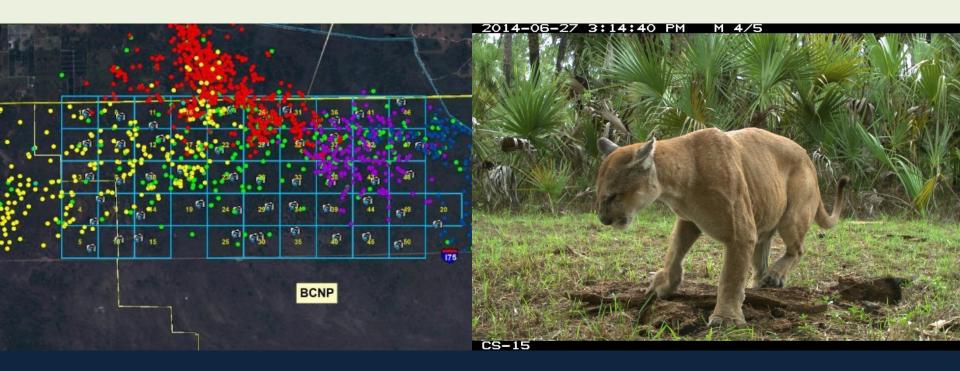
Transportation Sub-Team of PRIT Southwest Florida Road Hot Spots







Florida Panther Recovery Implementation Team Inventory and Monitoring Sub-Team



Purpose: To provide guidance on methods for estimating and monitoring the statewide panther population.





Florida Panther Recovery Implementation Team Recovery Criteria Sub-Team

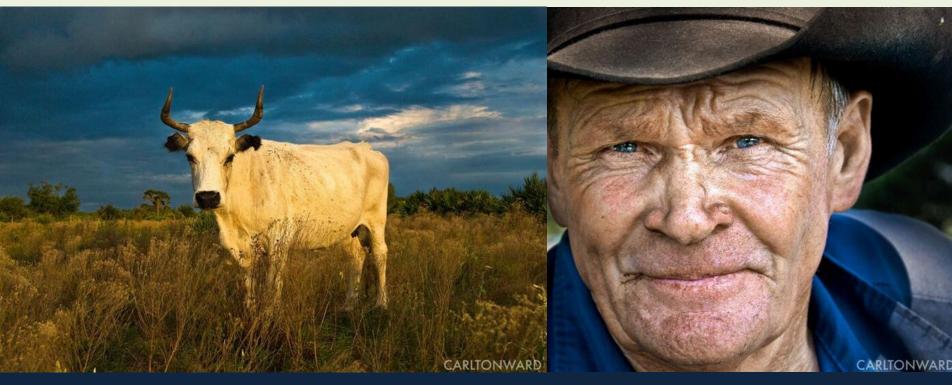


Purpose: To evaluate the existing recovery criteria and make the determination if new scientific data are available to better guide the Service on how recovery criteria for the panther should be defined.





Florida Panther Recovery Implementation Team Priorities



Make panther recovery compatible with working ranch lands





Florida Panther Recovery Implementation Team Priorities



Make panther recovery compatible with hunting and recreational access













Florida Panther 5-Year Status Review Initiated in June 29, 2017

A 5-year begins with biologists gathering the best available scientific data regarding the species. Such information includes:

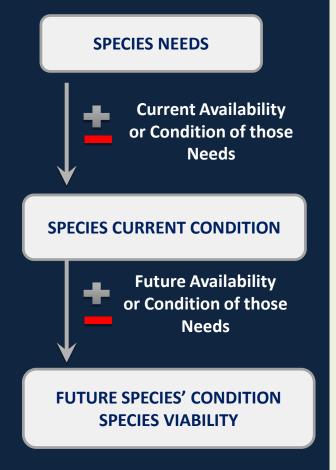
- Population trends, distribution, abundance, demographics, and genetics.
- Habitat conditions
- Conservation measures that have benefited the species
- Threat status and trends
- Other new information, data, or corrections, including but not limited to changes in taxonomy or nomenclature

Possible recommendations upon completion of the 5-year review:

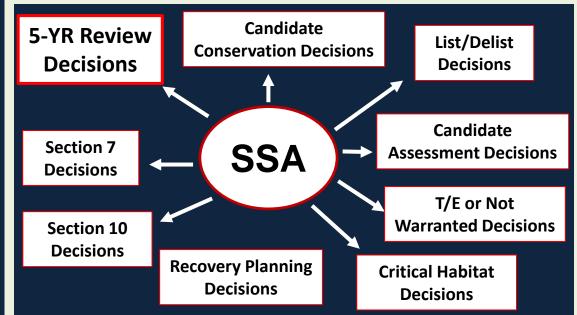
- Reclassify the panther from endangered to threatened (downlist)
- Remove the panther from the List (delist), or
- Maintain the panther's current classification.



Florida Panther Species Status Assessment (SSA)



An SSA is in essence a biological risk assessment to aid decision makers who must use the best available scientific information to make policy decisions.





FISH & WILDLIFE SERVICE

Florida Panther Species Status Assessment (SSA)

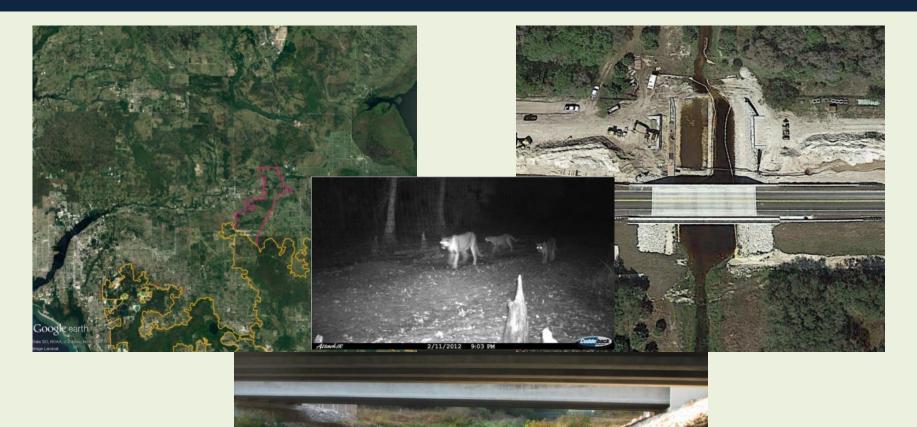


Taxonomic Assessment





Facilitate Natural Range Expansion

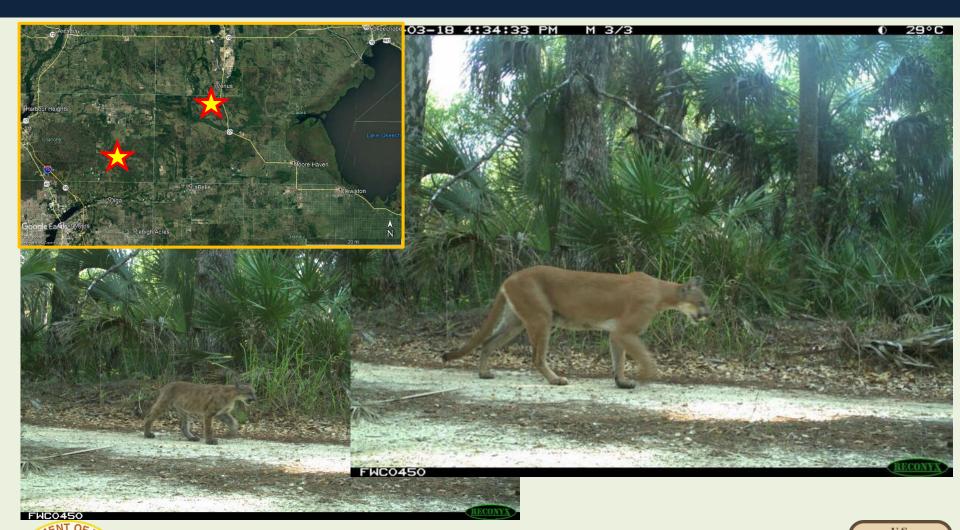








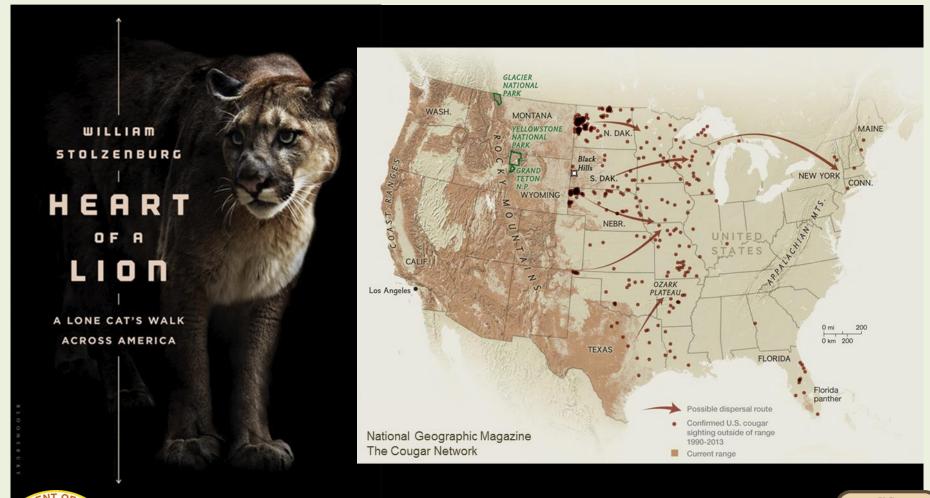
Female Panthers North of the Caloosahatchee





South Florida Ecological Services Field Office

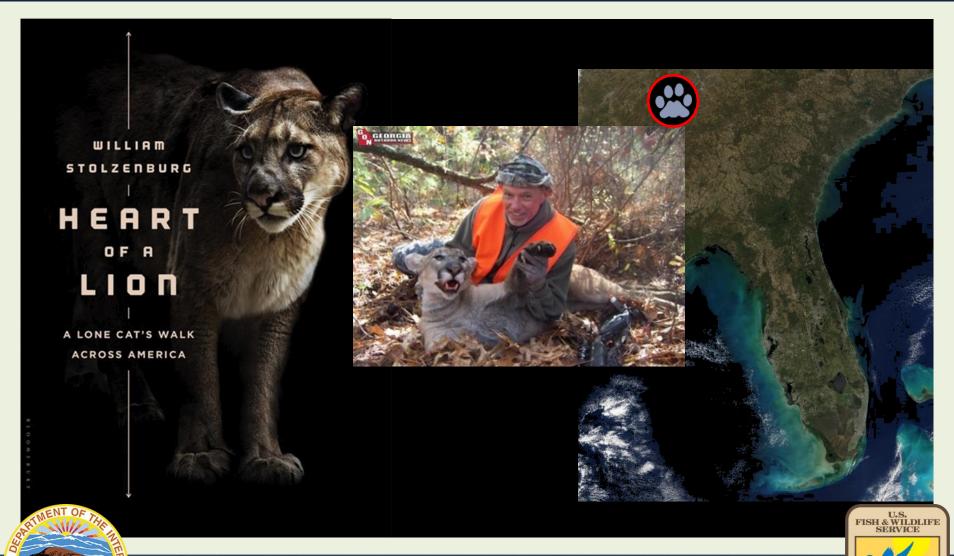
North American Puma: Heart of a Lion







Florida Panther: Heart of a Lion



South Florida Ecological Services Field Office

North American Puma: Eastward Expansion

Cougar Confirmations Per County (1990-2017)

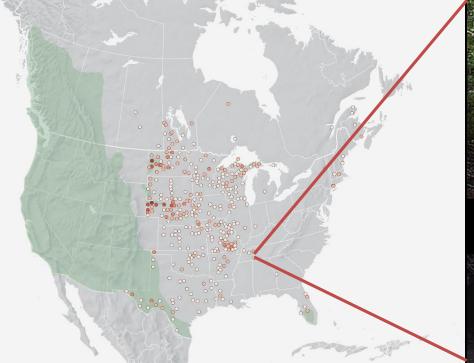
- 0
- 2-5
- 0-15
- 51 100
 - Known Cougar Range (U.S. and Canada)



Map by Brad Herried, F+H Geographic October 23, 2017

Cougar data from Cougar Network

Basemap data from Esri, Natural Ear











"TWRA has never, nor has it any plans to stock or otherwise physically encourage the establishment of a cougar population in Tennessee."





Florida Panther: Public Support









South Florida Ecological Services Field Office





