

Trilateral Committee Meeting San Diego April 13, 2015 Species of Common Concern Table

# **Jaguar Recovery** in the Northwestern Recovery Unit

#### 2014

Photo: Carlos López González



Erin Fernandez presenting for Marit Alanen Arizona Ecological Services U.S. Fish and Wildlife Service Tucson, Arizona

2015

#### **Overview**

- Binational Jaguar Recovery Team assembled 2010
- Working on Jaguar Recovery Plan with emphasis on NRU
- Implementing jaguar recovery projects



**2014–2015 Accomplishments** 



#### PVA

- Conducted by Conservation Breeding Specialist Group of the Species Survival Commission/International Union for the Conservation of Nature
- Final report addendum completed in August 2014

2014–2015 Accomplishments

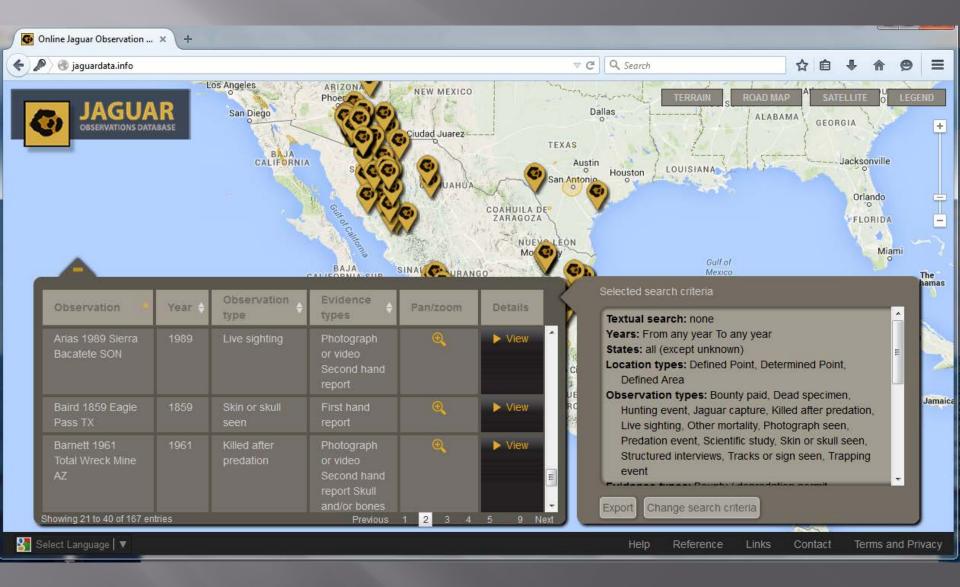


Jaguar Location Database

- Developed by the Wildlife Conservation Society
- Database converted to on-line with an administrative and public interface

 Final details currently being completed before full public launch

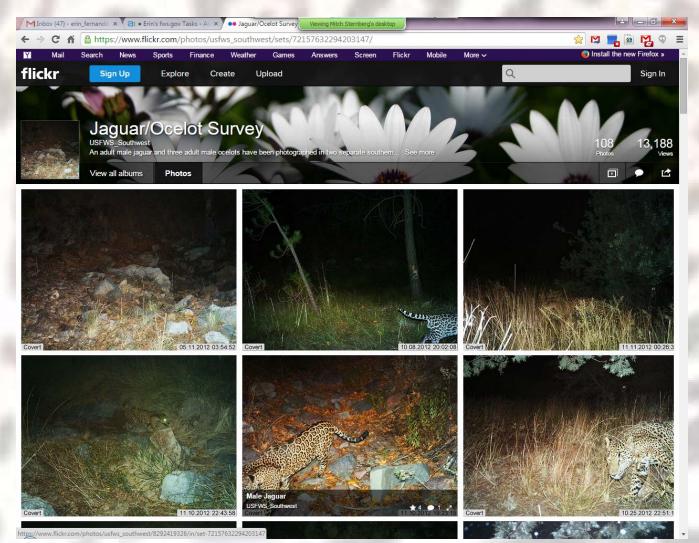






- Jaguar survey and monitoring effort along the AZ/NM border with Mexico
  - Conducted by the University of Arizona
  - Field work began spring/summer 2012 and ended February 2015
  - Paired cameras at 120 locations set up from Baboquivari Mountains (AZ) to Animas Mountains (NM)
  - ~96 photos of 1 jaguar and 12 photos of 3 ocelots
  - Report to follow

#### https://www.flickr.com/photos/usfws\_southw est/sets/72157632294203147/





- Similar jaguar survey and monitoring effort in the Baboquivari Mountains on the Tohono O'odham Nation
  - Conducted by tribal members
  - Currently implementing survey



- Survey of AZ/NM Residents' Attitudes on Jaguar Conservation
  - Conducted by Harris Environmental Group
  - Surveying stakeholders about attitudes, knowledge, and related concerns regarding jaguars and jaguar conservation
  - Will produce report explaining opportunities and challenges
  - Will construct survey tool for future studies



- Develop Jaguar Survey and Monitoring Protocol
  - Wildlife Conservation Society
  - Completed jaguar survey and monitoring protocol applicable in NRU
  - Protocol will assist in determining if recovery criteria are being met
  - Reports available in English and Spanish

2014–2015 Accomplishments



**Recommendations for Road Crossing Designs** 

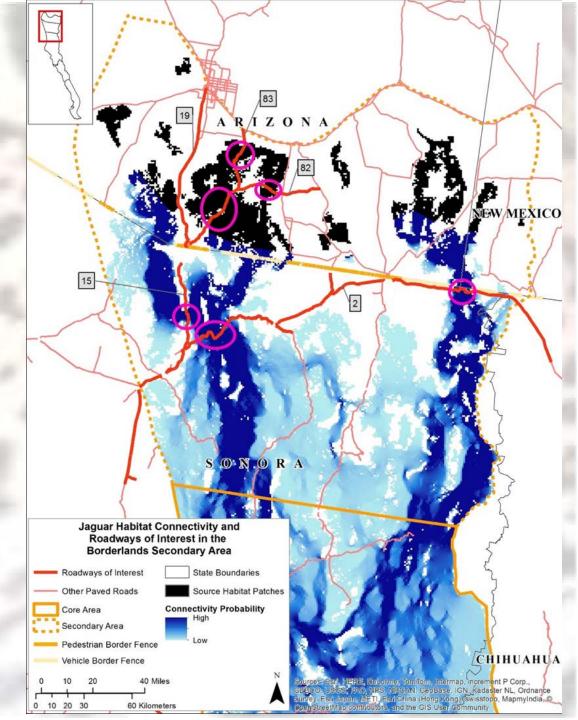
- Developed by the Wildlife Conservation Society
- Completed:
  - Review of road crossing designs
  - Recommendations for road crossing designs
  - Identified locations for these designs in NRU
- Reports available in English and Spanish

Recommendations for road crossing locations for jaguars in the NRU

 Example - Borderlands Secondary Area



© Rony Garcia/Totally Tandem/WCS Tikal National Park, Maya Biosphere Reserve, Guatemala





- Citizen Science/Education/Outreach
  - USGS and the University of Arizona
- Conducting Education and Outreach on Jaguar Conservation
- Implementing Citizen Science Program for Jaguar Monitoring
- Writing Grants for Jaguar Conservation



- Implement Ranch Owner/Manager Assistance and Incentive Program for Jaguar Conservation
  - USGS and the University of Arizona
  - M.S. and Ph.D. funded by this project
  - Interviews with ranchers
  - Rancher surveys
  - Rancher Workshops

#### Jaguar Recovery Implementation

✤ Jaguar survey and monitoring in Arizona and New Mexico

- Jaguar survey and monitoring on the Tohono O'odham Nation
- Jaguar survey and monitoring protocol development
- Survey of citizens' attitudes toward jaguars in Arizona and New Mexico
- Jaguar habitat mapping and on-line jaguar detection database development
- Jaguar population viability analyses
- Jaguar road crossing design recommendations
- Rancher/landowner outreach
- Citizen science/education and outreach program
- ✤ Jaguar genetic analysis

Reports posted: http://www.fws.gov/southwest/es/arizona/Jaguar.htm

2015-2016 Goals

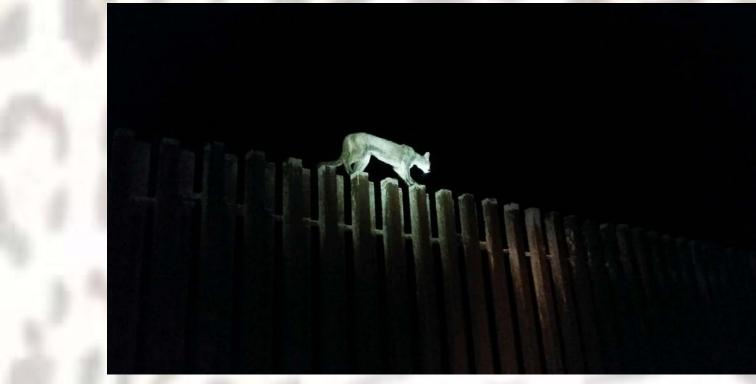


The Jaguar Recovery Team will:

- Produce a draft Recovery Plan (2015)
  - Will be made available for public comment
- Produce a final Recovery Plan (2016)

 Continue to implement recovery with partners in U.S. and Mexico

# A binational puma.....



#### **U.S. Border Patrol**

 The U.S.- Mexico Jaguar Recovery Team and the USFWS request Trilateral Committee endorsement to continue jaguar recovery planning and implementation efforts in the U.S. and Mexico



#### **Questions?**

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