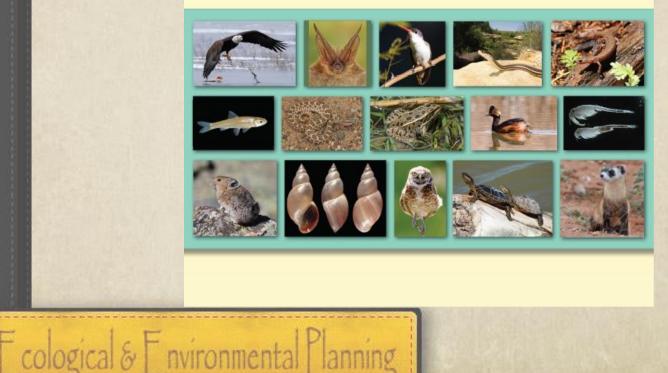


Department of Game and Fish



#### STATE WILDLIFE ACTION PLAN for New Mexico

22 November 2016



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# Background

- 2000 PUBLIC LAW 107–63 established the State Wildlife Grants (SWG) Program;
- To benefit wildlife and their habitats for species not hunted or fished;
- States required to develop a comprehensive wildlife conservation plan by 1 Oct 2005;
- New Mexico has received almost \$19 million in SWG funds since 2001

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 Department has funded 76 grants and over 120 Share with Wildlife projects

# **Required Elements**

- Distribution and abundance state's wildlife Species of Greatest Conservation Need (SGCN);
- 2. Location and condition of key habitats;
- 3. Assess threats which may affect SGCN or their habitats;
- 4. Identify actions to conserve SGCN and their habitats;
- 5. Plan to monitor SGCN and their habitats;
- Schedule state review of Strategy at least every ten years;
- 7. Coordinate with federal, state, and local agencies and tribes that manage significant land areas;
- 8. Provide for necessary public participation.

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#### Comprehensive Wildlife Conservation Strategy (CWCS) for New Mexico

- New Mexico prepared its CWCS
- Fish and Wildlife Service approved Strategy in 2006
- Must be reviewed and revised every 10 years

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Comprehensive Wildlife Conservation Strategy For New Mexico



Prepared by:

New Mexico Department of Game and Fish

In cooperation with:

Over 170 public agencies, conservation organizations, commodity interests, municipalities, private partners, and tribal representatives.

February 14, 2006

#### **10 Year Formal Review and Revision**

- Started review in 2015
- Process requirements
  - Identify Species of Greatest Conservation Need (SGCN)
  - Link threats to species
  - Link conservation needs to species
  - Address climate change

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 State Wildlife Action Plan (SWAP) approved in 2017

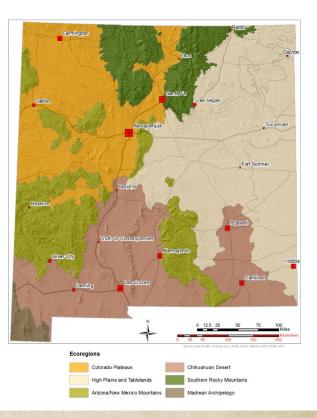
## **Guidance and Resources**

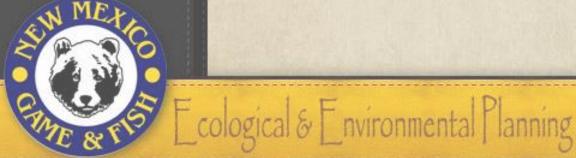
Webinar Series on State Wildlife Action Plan Revision



## **Ecoregion Organization**







## **Identify SCGN**









Photo: Angela James, USFWS



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# **SGCN** Selection

- Department statutorily responsible for taxa
- Exclude legally harvested with statutory protection as game or sport fish unless also state listed Threatened or Endangered
- Declining
- Vulnerable
- Endemic
- Disjunct
- Keystone
- Department expert opinion

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#### SGCN

| Category<br>Taxon | I  | н  | S  | D  | F  | Total |
|-------------------|----|----|----|----|----|-------|
| Amphibians        | 1  | 4  | 5  | 2  | 2  | 14    |
| Birds             | 18 | 10 | 30 | 9  | 5  | 72    |
| Crustaceans       | 0  | 1  | 0  | 27 | 2  | 30    |
| Fish              | 9  | 2  | 5  | 0  | 13 | 29    |
| Mammals           | 9  | 3  | 3  | 3  | 6  | 24    |
| Molluscs          | 1  | 26 | 3  | 10 | 6  | 46    |
| Reptiles          | 1  | 6  | 6  | 4  | 3  | 20    |
| Total             | 39 | 52 | 52 | 55 | 37 | 235   |

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I: Immediate priority species

H: Specialized or limited habitat species

S: Susceptible species

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D: Species with conservation data gaps

F: Federally-listed species

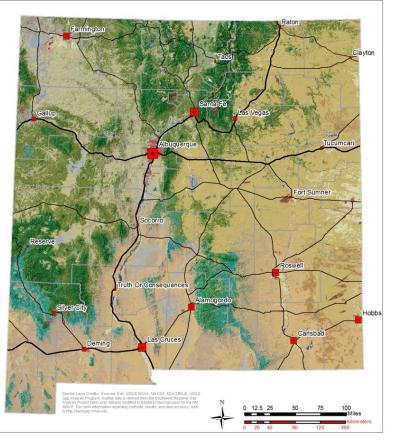
## **Key Habitats**

30 Key terrestrial habitats3 Introduced Semi-natural5 Other land cover8 Key aquatic habitats

Classified using the peer reviewed U. S. National Vegetation Classification system



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#### Land Cover - Habitats

- Cliff, Stree & Rock Vegetation
   Interm

   Arid West Interior Freshwater Emergent Marsh
   Interm

   Arid West Interior Freshwater Emergent Marsh
   Interm

   Orhubahan Desert Scrub
   Interm

   Orhubahan Desert Scrub
   Interm

   Orhubahan Desert Scrub
   Interm

   Orhubahan Desert Scrub
   Interd

   Orek Desent Medgrass Frain
   Interd

   Orekt Plans Shodgrass Prairie
   Inderd

   Orekt Plans Shodgrass Prairie
   Madre

   Interdevidual Vegetation
   Oren

   Intermountan Arroy Ripana Scrub
   Carstind

   Intermountan Arroy Ripanation
   Oren
- Intermountain Dwarf Sagebrush Shrubland Intermountain Juniper Woodland Intermountain Salbush Shrubland Intermountain Tail Sagebrush Shrubland Introduced Upianal Vegetation - Annual Grassland Introduced Upianal Vegetation - Annual Grassland and Frobland Upiand Vegetation - Perenial Grassland and Fobland Madream Notmake Forsit & Woodland Montane-Subalpine Wet Shrubland & Wet Meadow Open Water Quarmiss, Mines, Gravel Pits and Ol Wells
- Recently Disturbed or Modified
  Rocky Mountain Alpine Vegetation
  Rocky Mountain Lover Mortane Forest
  Rocky Mountain Montane Riparian Forest
  Rocky Mountain Montane Riparian Forest
  Rocky Mountain Montane Capania
  Rocky Mountain Subalpine-High Montane Confer Forest
  Rocky Mountain Subalpine-High Montane Meadow
  Southwest Riparian Forest
  Warm & Conferent Natil-Saine Wetland
  Warm Interior Chaparal
  Warm Linetorior Chaparal
  Warm Linetorior Chaparal
  Warm South Roys Ryania Srub

## Threats

- Based on the IUCN general categories
- Identified by ecoregion
  - 1. Residential and Commercial Development
  - 2. Agriculture and Aquaculture
  - 3. Energy Production and Mining
  - 4. Transportation and Utility Corridors
  - 5. Biological Resource Use
  - 6. Human Intrusions and Disturbance
  - 7. Natural System Modification
  - 8. Invasive and Problematic Species
  - 9. Pollution

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10. Climate Change

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# **Conservation Actions**

- General categories based on IUCN classification system
- The actions applicable to New Mexico include:
  - 1. Land/Water Management
  - 2. Species Management
  - 3. Law Enforcement and Prosecution
  - 4. Livelihood, Economic, and Moral Incentives
  - 5. Conservation Designation and Planning
  - 6. Law and Policy

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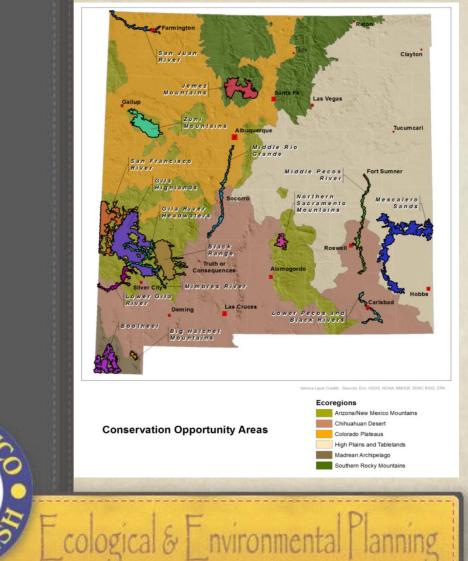
- 7. Research and Monitoring
- 8. Awareness Raising/Education and Training
- 9. Institutional Development







## **Conservation Opportunity Areas**



Include:

- San Juan River
- Jemez Mountains
- Zuni Mountains
- Middle Rio Grande
- San Francisco River
- Gila Highlands
- Gila River Headwaters
- Black Range
- Lower Gila River
- Mimbres River
- Bootheel
- Big Hatchet Mountains
- Northern Sacramento Mountains
- Middle Pecos River
- Lower Pecos and Black Rivers
- Mescalero Sands

## **Other Required Elements**

- Description of monitoring species and habitats
- Implementation through coordination

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Review and revision (before 2025 if warranted)

## **SWAP Web Portal**

New Mexico Conservation Information System

NEW MEXICO DEPARTMENT OF GAME AND FISH STATE WILDLIFE ACTION **New Mexico State Wildlife Action Plan** A OVERVIEW Welcome to the State Wildlife Action Plan for New Mexico, your SPECIES portal for exploring the conservation needs and opportunities for New Mexico's wildlife and their habitats. ECOREGIONS Learn about Species of Greatest Conservation Need and where they live. HABITATS

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THREATS AND CONSERVATION ACTIONS

CONSERVATION OPPORTUNITY AREAS

MONITORING

CLIMATE CHANGE

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**Read about Threats and Potential Conservation Actions.** 

**Explore Conservation Opportunity Areas.** 

#### https://nmswap.org/

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NATURAL HERITAGE

SWAP Share with Wildlife

**Related Resources** 

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