

## **Non-Federal Habitat Restoration Funds**

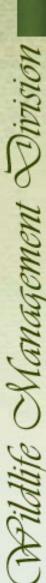
- Habitat Management & Access Validation (HMAV) Fund
  - Revenue from HMAV Stamp Sales
  - Restoration on Game Commission owned properties
- Habitat Stamp Program (HSP) Fund
  - Revenue from Habitat Stamp Sales
  - Restoration on US Forest Service and Bureau of Land Management properties
- Big Game Habitat Enhancement (BGE) Fund
  - Revenue from auction and raffle of special hunt authorizations
  - Big game habitat enhancement, conservation, and protection statewide
- External Agency, NGO, and Private Funds
  - NM State Forestry, NM Water Trust Board, National Fish & Wildlife Foundation
  - Coca Cola Company, NM Trout Unlimited

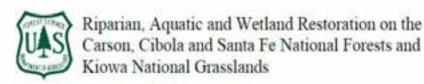
# Federal Wildlife & Sportfish Restoration Funds -- USFWS

Pittman-Robertson, Dingell-Johnson, and State Wildlife Grant

- 75% federal / 25% non-federal match
- Internal and/or external non-federal funds used as match
- Significantly Increases scope and scale of restoration efforts

Photo: Martin Perea







#### Background

The Carson, Cibola and Santa Fe National Forests in New Mexico occupy 4.7 million acres that range in elevation from 5.000 feet to more than 13.000 feet above sea level. Riparian areas occupy approximately 2 percent of these acres (not including historic riparian areas within the forests and grasslands); however, the majority of the biodiversity on the Forests are dependent on these areas.

Riparian areas are associated with a range of ecosystem services that are valued by humans and provide human welfare benefits, including recreation, grazing, and natural beauty (National Research Council 2002 and 2004; Covich et al. 2004; Giller et al. 2004). Riparian zones are among the most beterogeneous and diverse landscape elements, with habitats harboring the highest plant, bird, insect, reptile-amphibian, and mammal biodiversity of any terrestrial ecosystem. For example, in the Southwest it has been estimated that up to 70 percent of threatened and endangered vertebrate species are riparian obligates (species that require riparian habitat to complete some portion of their life cycle) (Johnson 1989). In the and Southwest, riparian areas offer unique services that have long been recognized for the disproportionate benefits they provide relative to the small area they occupy on the landscape (Naiman and Décamps 1997).

Riparian areas in the Southwest have been impacted by numerous stressors, including dams, diversions, groundwater pumping, loss of keystone species, channelization, conversion to agricultural uses, urbanization, grazing, roads, recreational development and use, fires, mining, fuel wooding, logging, and invasive species. Many of these stressors result in altered flow regimes and less frequent connection between the stream and its floodplain. Between 30 and 50 percent of Southwest wetlands have been lost and converted (Mitch and Gosselink 1993) which has also resulted in species declines and increased.

## Planning & Compliance

 A limiting factor to getting more restoration work completed is often compliance related activities and the lack of associated funding.





### Forest & Woodland Restoration

- Fire is a key ecological process across most forest types in NM
- Thinning is often needed pre-RX fire
- Natural Range of Variability
- DGF supports thousands of acres annually

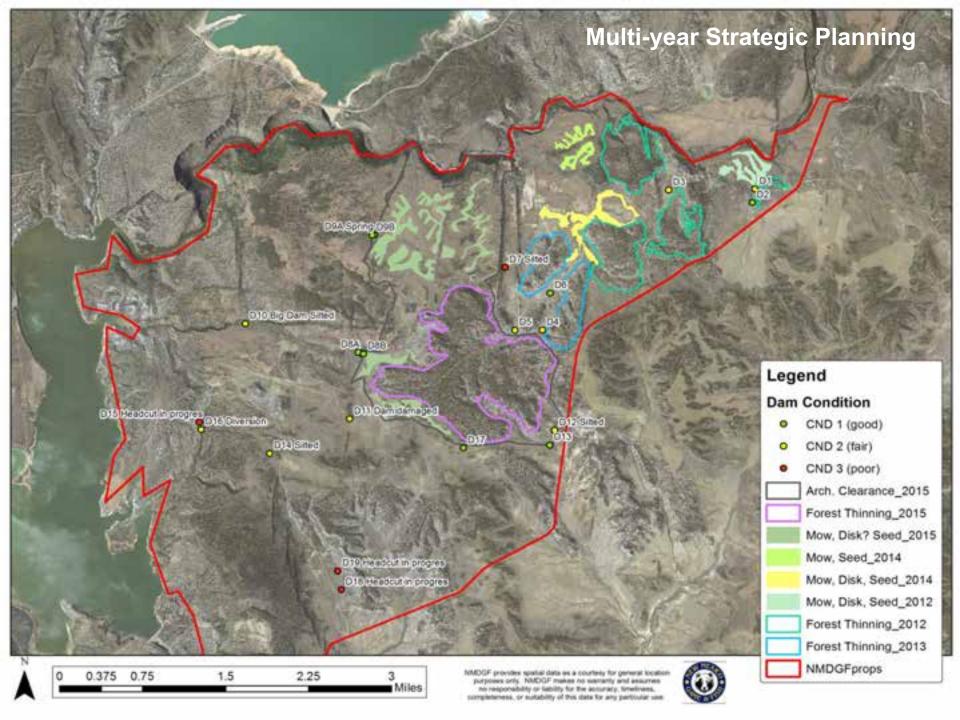




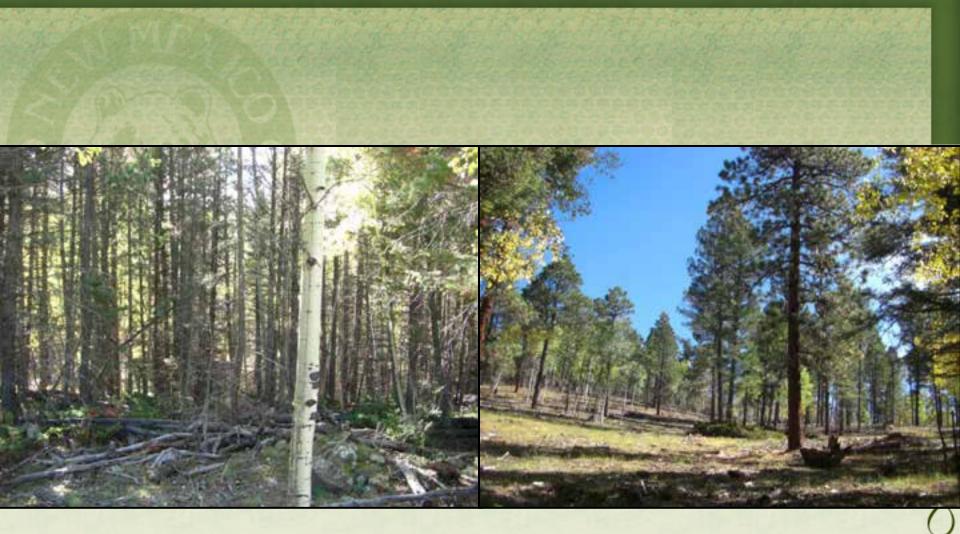












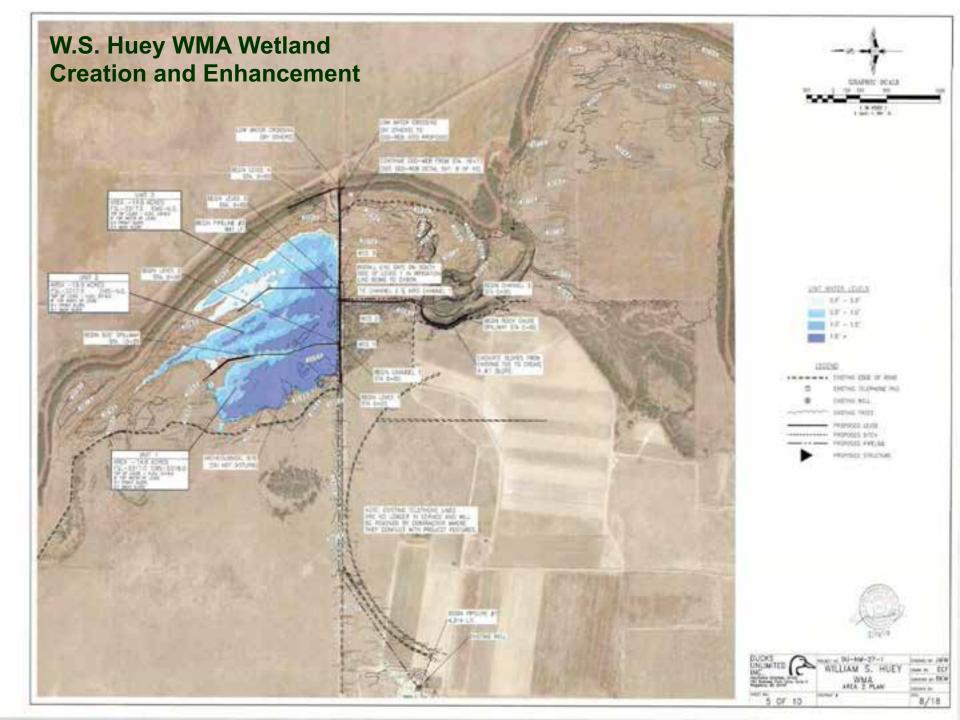
Rio Tusas/San Antonio Landscape Area Carson National Forest 160,000 acre project area





# Wetland & Riparian Habitat Restoration

- Substantial focus on Game Commission owned properties
- Additional support for restoration on USFS and BLM lands
- Work with partners to increase scope and scale of restoration across the state







### **Canadian River Riparian Vegetation Enhancement Kiowa National Grasslands**







## Grassland & Shrubland Restoration

- Maintain species diversity
- Increase connectivity
- Reduce shrub density for specific wildlife objectives (i.e. mesquite and LPC)





### Native Grassland Restoration / Cheatgrass Control Rangeland Reseeding Farmington BLM & Jicarilla Ranger District USFS







# Aquatic / Fisheries Habitat Restoration

2016 Statewide
 Fisheries Management
 Plan











### **Habitat Restoration Program Goals**

Partner with land management agencies, NGOs, and other entities to prioritize landscape restoration projects on a *STATEWIDE* level and consolidate financial and material restoration resources.

Position the Department at the forefront of the prioritization, planning, and implementation of habitat restoration projects in important habitats for wildlife.

Concentrate available financial and material resources over multiple years within priority habitat types and landscape areas.

- Improve habitat for both game and non-game wildlife and fish species over large landscapes across the state
- Enhance ecosystem and watershed health
- Reduce the threat of catastrophic wildfire