

New Mexico Conservation Districts

Invasive Species Management





Restore New Mexico

Partnerships are the Key to Success

- Started in 2005 Funding Earmark EQIP
- 1.5 Million EQIP to be spent on Federal Land
- BLM Matches EQIP Dollars
- NMACD Coordinates and Facilitates
- SWCDs “DELIVER ON THE GROUND”





MULTIPLE BENEFITS

- Healthy lands with healthy wildlife populations
- Decrease native invaders to historical proportion
- Better rangeland
- Decrease sediment loads into streams
- Continuance of multiple uses on public lands
- Increase available water for native vegetation

MULTIPLE REASONS

- To prevent the listing of candidate wildlife species
- To improve water quality
- To improve water quantity
- To improve the health of rangeland and reduce erosion
- To improve wildlife habitat
- To reduce the impacts of catastrophic wildfires

LARGE LANDSCAPE SCALE WATERSHED PROJECTS
REMOVING INVASIVE SPECIES
TO IMPROVE HABITAT FOR HEALTHY ECOSYSTEMS



Creosote & Mesquite

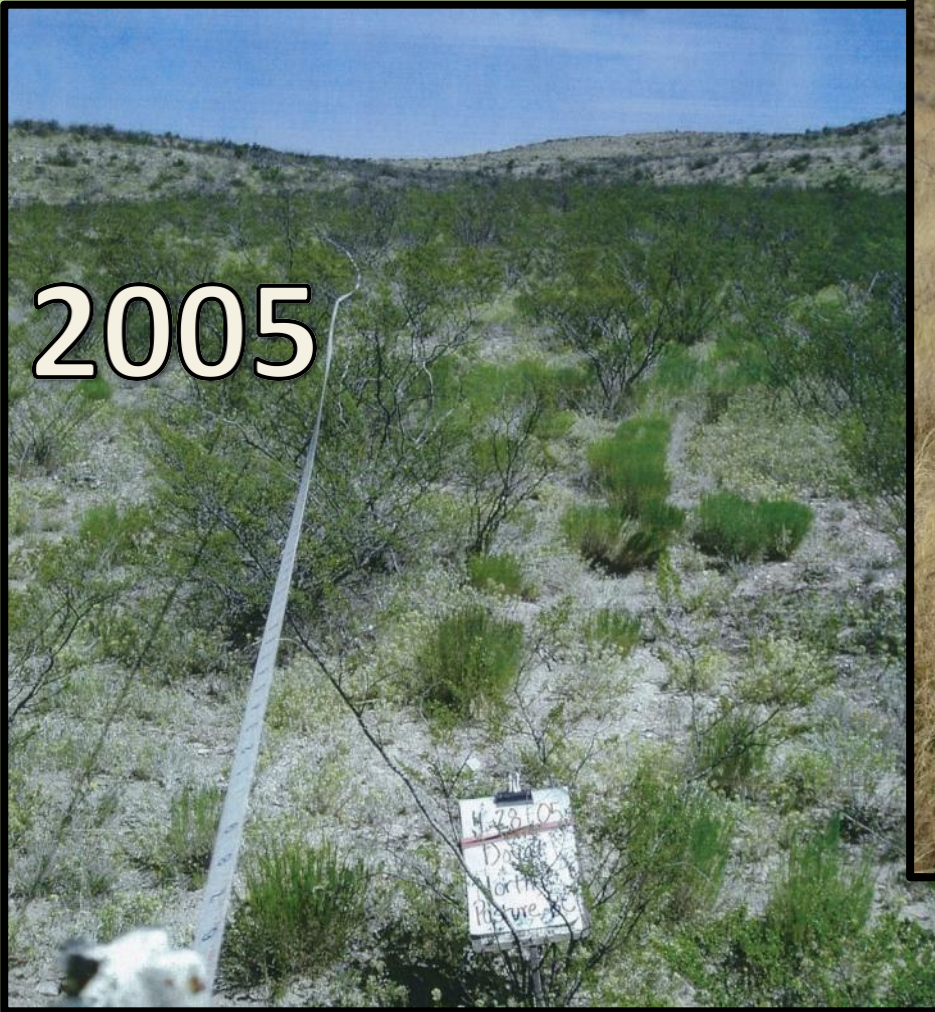


2006 NMACD gets a
10 MILLION DOLLAR GRANT
5 YEAR AGREEMENT FROM BLM TO
LEVERAGE ALL PARTNERS & RESOURCES





Catclaw/Creosote Invasion



Before and After Treatment

Results

Composition %

Shrubs 78 → 1

Grasses 5 → 99

Species Diversity

Pre-

Post-

Burrograss

Burrograss

Blue Grama

Blue Grama

Black Grama

Sideoats Grama

Three-Awn

Fluffgrass

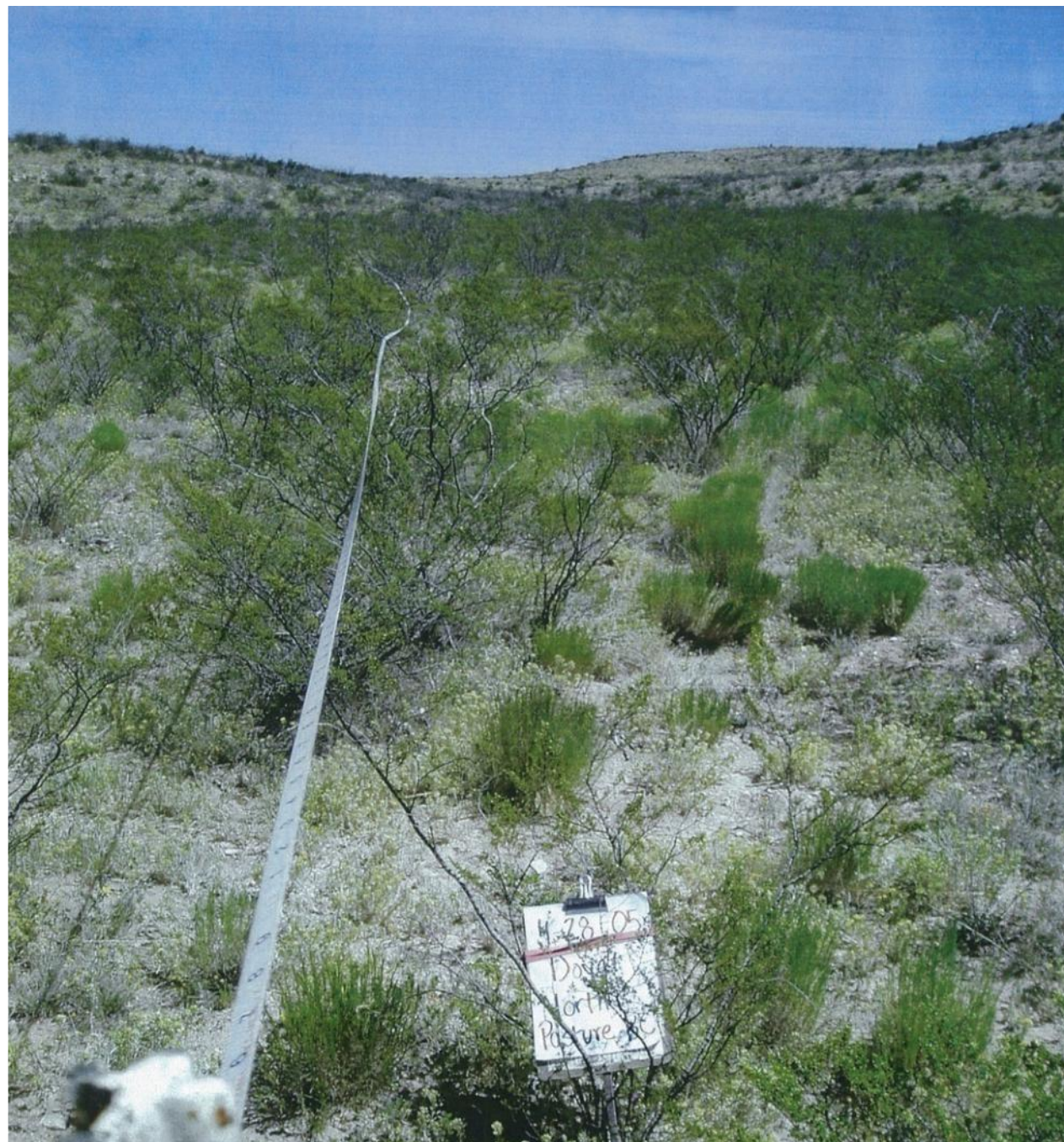
6-weeks grama

Bush Muhly

Ear Muhly

Nine-Awn

Sand Dropseed





Mesquite Invasion

Crop Duster Spraying Mesquite





Traditional

Electrostatic



Chemical Dispersal Technique



Treated vs. Untreated

2 years after treatment



Results

Composition %

Shrubs 84 → 7

Grasses 14 → 85

Species Diversity

Pre-

Post-

Bush Muhly
Three-Awn

Bush Muhly
Three-Awn
Sand Dropseed
Spike Dropseed
Mesa Dropseed
Plains Bristlegrass
Hairy Grama
Black Grama
Blue Grama



Restore NM Leveraging Partnerships for Brush Treatments in South East New Mexico

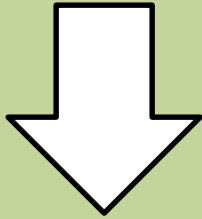
Pre-2005	approx. 10,000 ac/yr	8100 Funding
2005	approx. 45,000 ac	Fed EQIP/BLM
2006	approx. 145,000 ac	Healthy Lands Initiative
2007	approx. 119,000 ac	HLI/Restore New Mexico
2008	approx. 235,000 ac	HLI/Restore New Mexico
2009	approx. 68,000 ac	HLI/Restore New Mexico
2010	approx. 203,000 ac	HLI/Restore New Mexico
2011	approx. 125,000 ac	HLI/Restore New Mexico
2012	approx. 76,000ac	HLI/Restore New Mexico
2013	approx. 50,000ac	HLI/Restore New Mexico
2014	approx. 75,000ac	HLI/Restore New Mexico
2015	approx. 80,000ac	HLI/Restore New Mexico
2016	approx. 94,000ac	HLI/Restore New Mexico
2017	approx. 90,000ac	HLI/Restore New Mexico
2018	approx. 76,000ac	HLI/Restore New Mexico
2019	approx. 16,000ac – to date	HLI/Restore New Mexico
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Total approx. 1,500,000 ac		

Invasive species

Bare Ground

51.7%

1994



12.7%

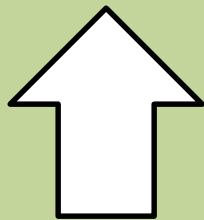
2009



Vegetation

5.3%

1994



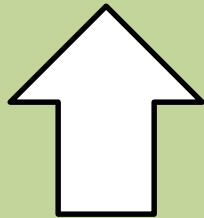
22.0%

2009



Production
173.0 lb/acre

1994



391.4 lb/acre

2009



**NMACD receives 20 MILLION DOLLARS
2011 & 2015**



**Two
20 Million
Dollars grants
from
BLM for 5 years
each!
LARGE
LANDSCAPE
SCALE
PROJECTS
Leveraging EQIP
and Private
Dollars.**



Saltcedar



Helicopter Spraying



Mechanical Removal



Piling along banks



Pile burning

NM REGIONAL CONSERVATION PARTNERSHIP PROGRAM (RCPP)

Through USDA-NRCS Farm
Bill Programs

- ❑ **2018 Pecos River Watershed
1.2 million dollars**
- ❑ **2017 New Mexico Range and
Forest Soil Health Initiative-
NMACD
7 million dollars.**

2015 Restoration 4 million dollars





National Fish and Wildlife Foundation Partners with Permian Basin Oil and Natural Gas Companies to Conserve Pecos Watershed in Texas and New Mexico

Anadarko Petroleum Corporation, Chevron, ExxonMobil subsidiary XTO Energy Inc., Noble Energy, Occidental Petroleum and Shell Oil have together committed more than \$3.5 million over three years in initial funding for on-the-ground conservation projects. Working with other funding partners, including the USDA Natural Resources Conservation Service in Texas and New Mexico, NFWF will match the companies' funding, boosting the total conservation impact to at least \$7 million.

**NMACD awarded NFWF Grant of
\$247,000**



**Leveraged & Partnered to become
\$2,047,300**



- ❖ NM Game & Fish Department matching funds-465,000
- ❖ Cimarex Energy matching funds- \$50,000
- ❖ ***NMACD & Partners sprayed 57,000 acres***
- ❖ **Pecos Watershed @ \$35.90 per acre**

Improve Habitat for Multi-Species



Restore NM acres treated since Inception:
3,335,572 acres of public, private & state lands

Over \$69,705,855 Million spent on
Restore NM in 13 years



Invasive Plant Control

2005 – Present

Restore NM acres treated since Inception:
3,335,572 acres of public, private & state lands

BLM 2,653,832 acres

State 328,105 acres

Private 313,560 acres

USFS 56,075 acres

Treatments included Chemical, Mechanical and Prescribed Fire



SOIL AND WATER CONSERVATION DISTRICT LOCAL GOVERNMENT ON THE LAND

