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Energy, Minerals and Natural Resources Department February 2022

















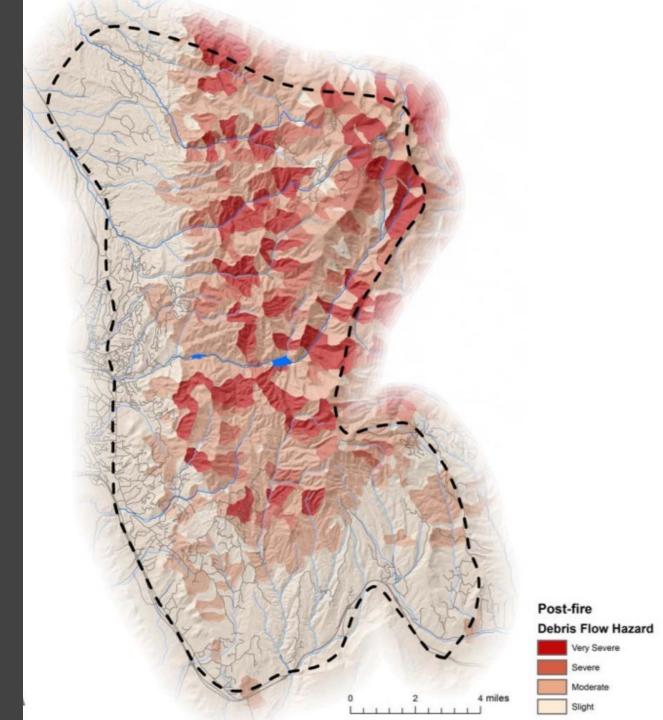


50-70% of the municipal and agricultural water originates in forests.

NM EMNRD

Pilot: Santa Fe Fireshed

- Used peer-reviewed method to analyze risks to area surrounding Santa Fe
- Collaboratively driven
- Led to several actions and strategies (e.g., landscape scale NEPA)

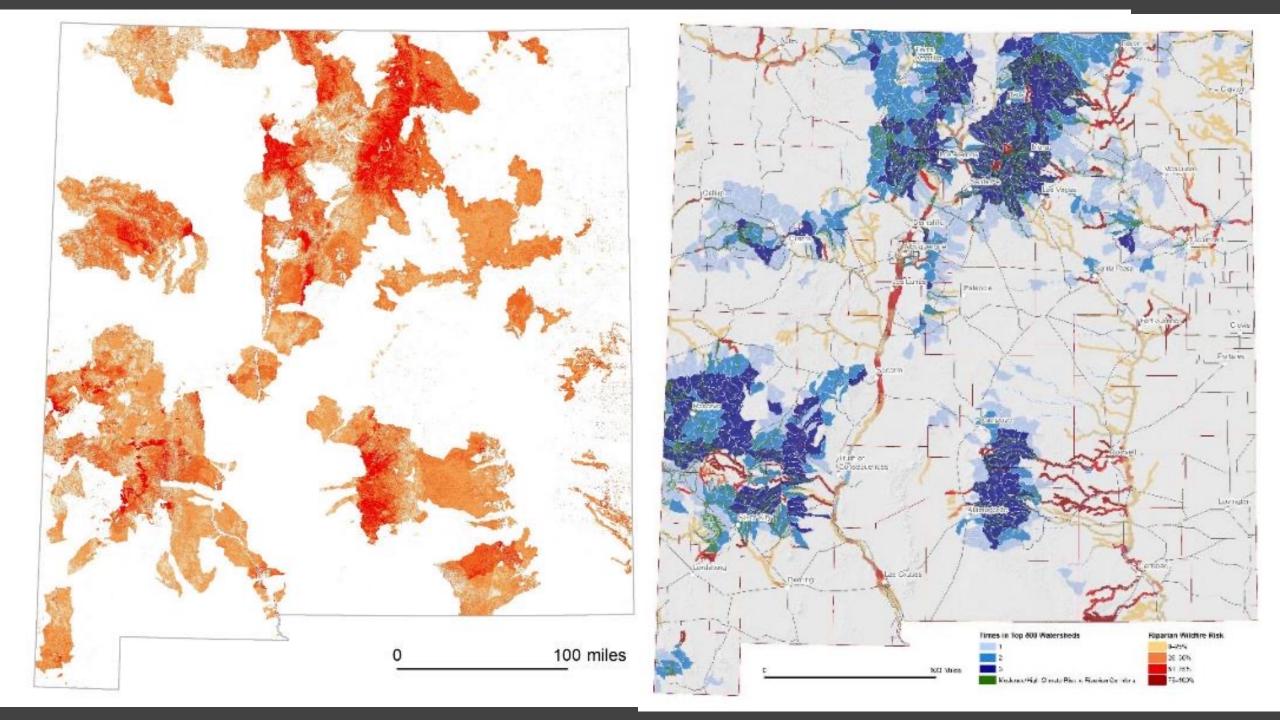


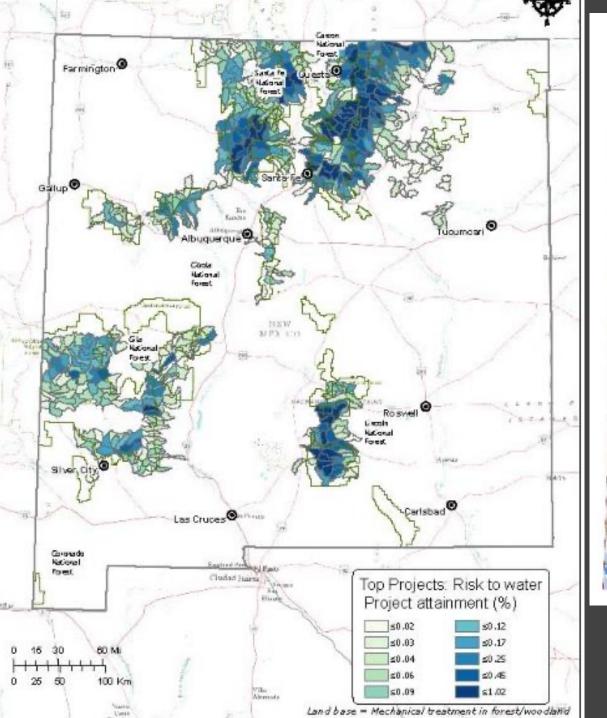
New Mexico | Rio Grande Water Fund

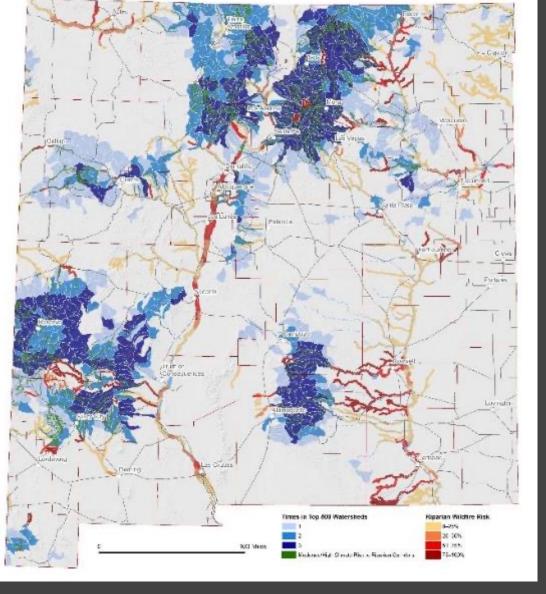


Restoring essential forested lands upstream will ensure a continuous supply of clean water downstream









All Lands Shared Stewardship Priorities – Top 500

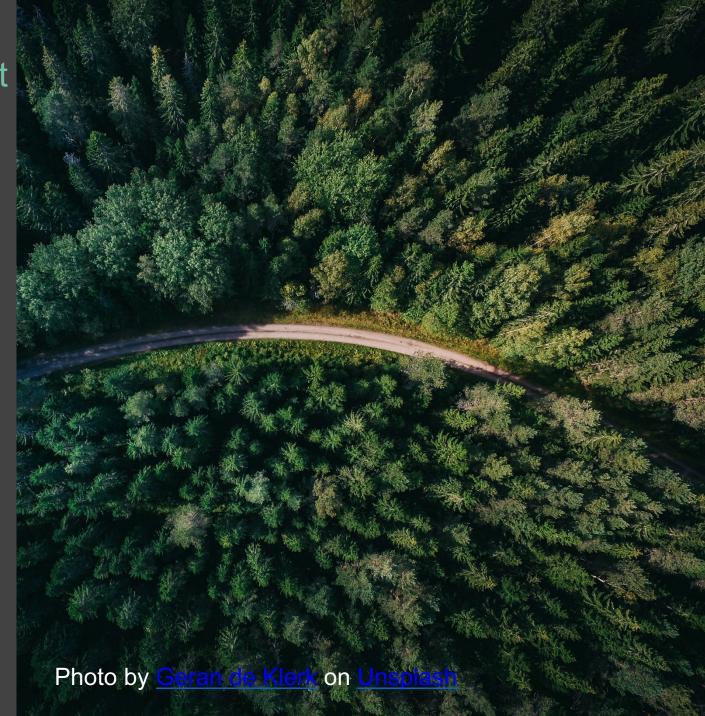
10 Forest Action Plan Strategies

- Restore Forests and Watersheds
- 2. Fire Management
- 3. Private Land Stewardship
- 4. Utility Rights of Way
- 5. Rare Plants

- 6. Reforestation
- 7. Urban Forests and Communities
- 8. Restoration Economy
- 9. Land Conservation
- 10. Outdoor Recreation

Forest and Watershed Restoration Act

- Dedicated non-federal funding for restoration
- Tied to Forest Action Plan
- Must be landscape scale and benefit downstream water users



FAWRA can fund: Treatments, Planning and Economic Development











26 jobs and \$5M of economic impact for every \$1M spent on restoration

Huber et al., USGS Open-File Report 2019–1108

Focus: Workforce Development

- Youth and professional education
- Jobs and skills training
- Business incentives
- Increase local contractor capacities



52 weeks of fire

- Planning season
- Training season
- Suppression season
- Rx fire season



Fire effects not fence lines

- Driven by landowner goals
- Utilizes <u>Potential Operational</u> <u>Delineations to maximize fire</u> fighter safety
- Increases operational decision space
- Avoids inefficient suppression efforts



Getting more *good* fire on the ground

- 2021 passed the prescribed fire act creating the "right to burn" for private landowners
- Reduces liability by defining standards
- Creates certified burner program



Pile Burn Certificate

- Low complexity
- Burn activity fuel from property
- A good entry into Rx fire



Broadcast Burn Certification

- Higher complexity
- Larger scale land management
- Opportunity for contractors and business development



Reforestation after fires

- New Mexico State Univ., NM
 Highlands Univ., UNM, NM Forest
 and Watershed Restoration Institute
 (SWERI)
- 3 Parts
 - Nucleation Planting
 - Field research on reforestation and climate change
 - Research to improve seedling stock



NM Reforestation Center

- Collaborative agreement between Forestry Division and Universities
- Focus on post-fire reforestation
- Addresses the reforestation pipeline challenges
 - Seed
 - Nursery
 - Planting
 - Post-planting



Working lands and carbon flux

- Working with landowners to pilot efforts that stabilize or increase carbon on working lands
- Creating place-specific carbon accounting models for New Mexico's arid environment
- Collaborting across a network of scientists, landowners, and managers. Includes NMDA, SW Climate Hub, Climate Adaptation Science Center and NM Univs.



Credit: Litvak Lab

Looking forward: Challenges

- Funding is coming this will stretch our collective capacity to the max
- Persistent dry conditions moving into an ignition limited season
- Bureaucracy isn't keeping pace with drying conditions – hiring, procurement, environmental regulations, all need to be rethought to meet the challenge
- Capacity building needs



Looking forward: Enabling Conditions

- Funding is coming dollars for days
- Strong support from leadership for proactive fire management -- our bosses "get it"
- Partners willing and able to innovate and work together



