

# Restoring Forest and Watershed Health and Resilience

New Mexico State Forestry presentation to the  
Water and Natural Resources Committee

October 18, 2019

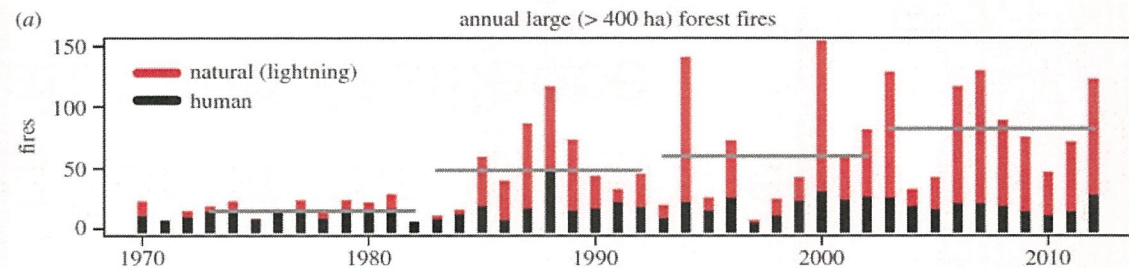


# Changing Wildfire Environment

Longer fires seasons and more extreme fire behavior lead to:

- Increased threats to human life, health and property
- Water source damage
- Loss of forests and rangeland

## Decadal Wildfire Increase



Governor's Executive Order 2019-003

Southwest

+462%

Westerling (2016)

# Wildfire in NM: Not if, but when?

2019 Fire Season (01/01/19-10/01/19)

- 537 statistical fires
- 22,125 acres state and private land affected

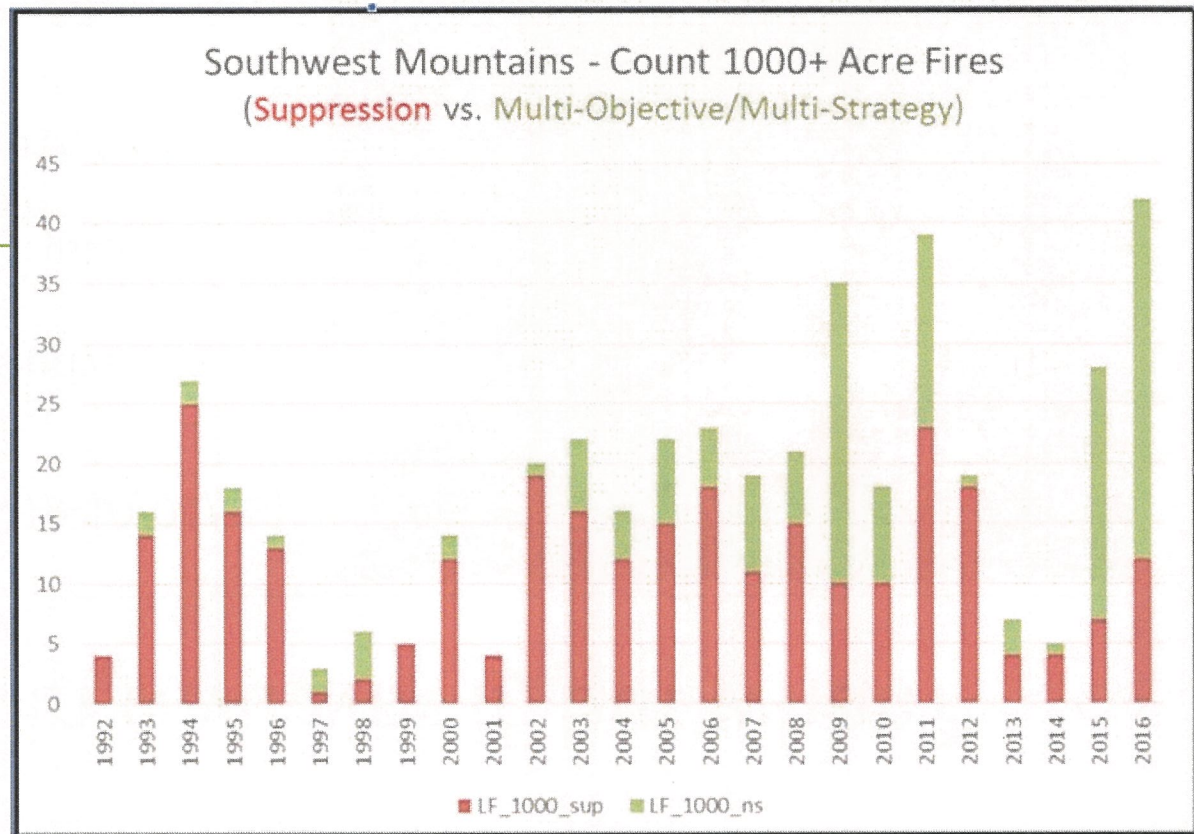
Winter/spring moisture + lackluster monsoon > high fine fuel loads

Prior years' drought > high heavy fuels

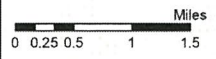
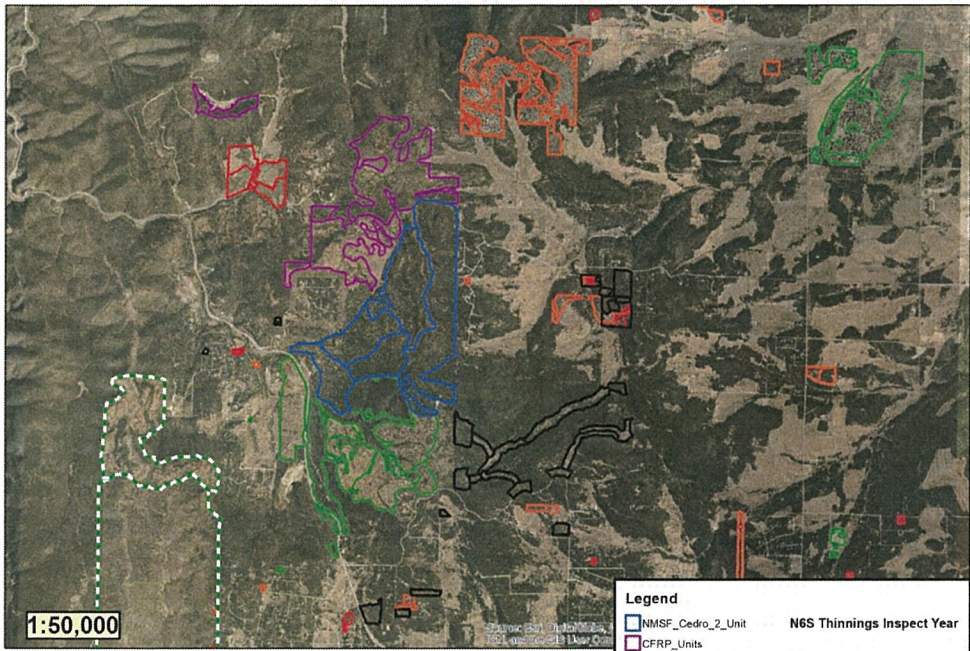
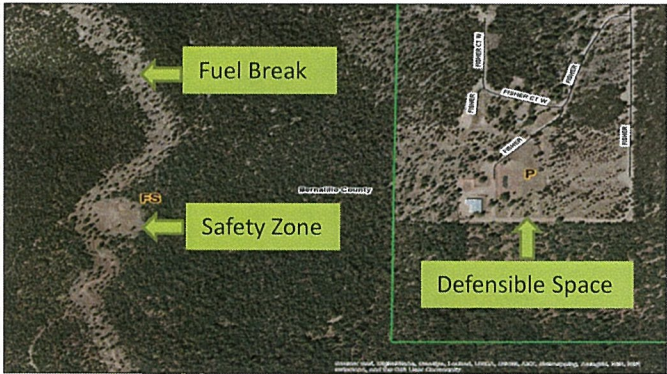
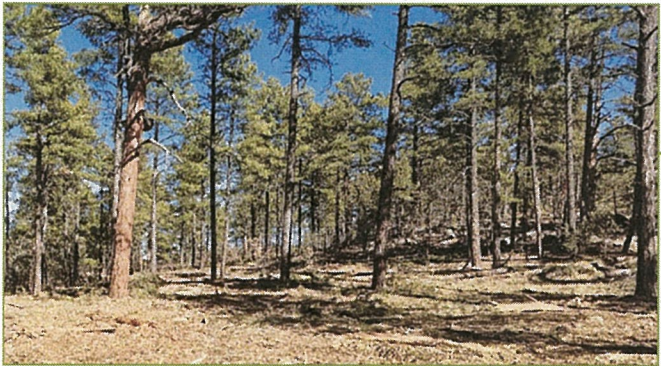


# Evolving fire management strategy

The type of fire matters as much as number and size



# Proactive Management

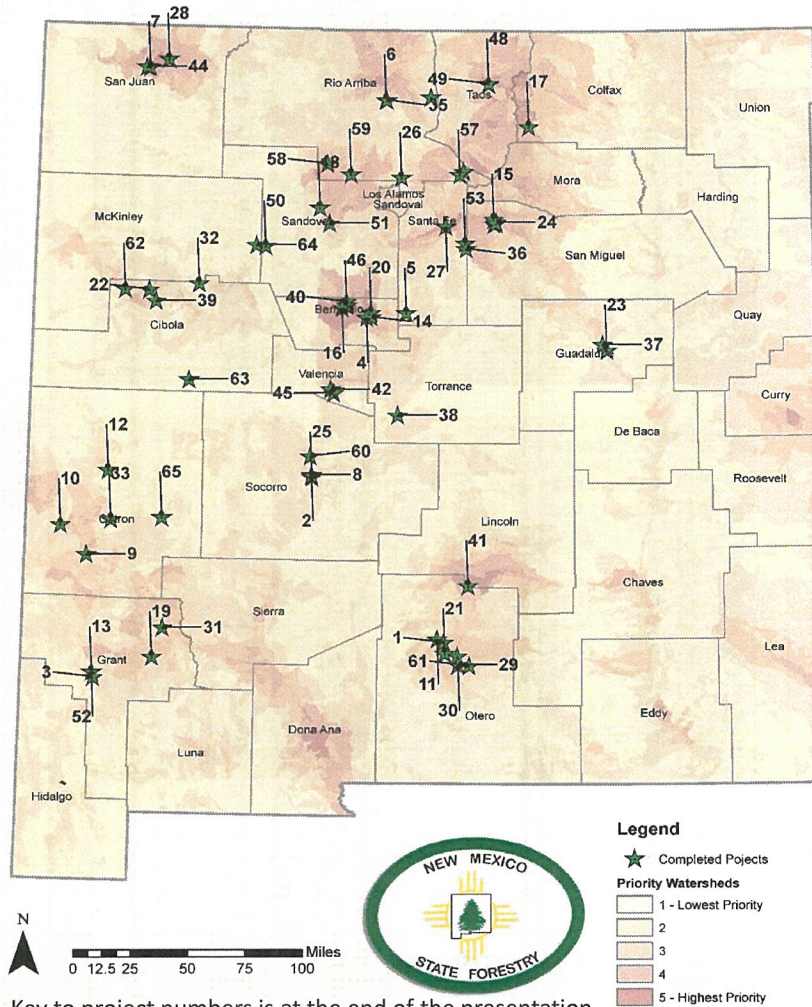


Datum: NAD83 Projection: UTM Zone 13N  
 No warranties are made regarding the accuracy of this data.  
 Produced by NM EMNRD Forestry Division, Timber Forester

### Legend

- NMSF\_Cedro\_2\_Unit
  - CFRP\_Units
  - Davki\_Canyon\_Project\_Areas
- | N6S Thinnings Inspect Year |              |
|----------------------------|--------------|
| 0.000001 - 7.000000        | [White Box]  |
| 7.000001 - 11.000000       | [Red Box]    |
| 11.000001 - 15.000000      | [Orange Box] |
| 15.000001 - 19.000000      | [Green Box]  |

## Completed Watershed Restoration Initiative Projects 10/4/2019

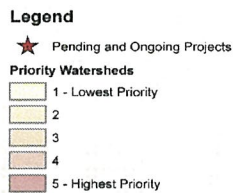
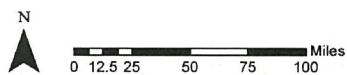
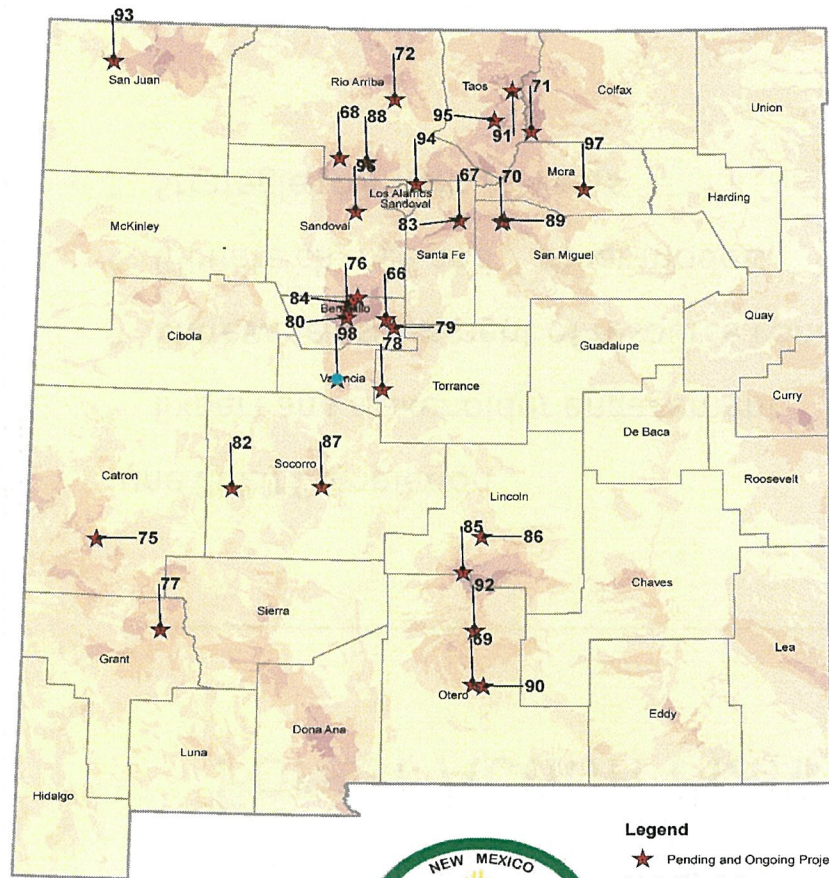


## New Mexico State Forestry Projects completed 2014 to date

- Capital Outlay funding - \$21,156,336
- CIP Funds expended – \$21,066,517
- Leveraged funding - \$8,739,404
- Target acres – 34,296
- Acres treated to date – 35,729



## Pending and Ongoing Watershed Restoration Initiative Projects 10/4/2019



Key to project numbers is at the end of the presentation

## New Mexico State Forestry 2019 pending & ongoing projects

- Capital Outlay funding - \$7,459,752
- CIP Funds expended – \$415,901
- Leveraged funding - \$190,025
- Target acres – 13,267
- Acres treated to date – 636

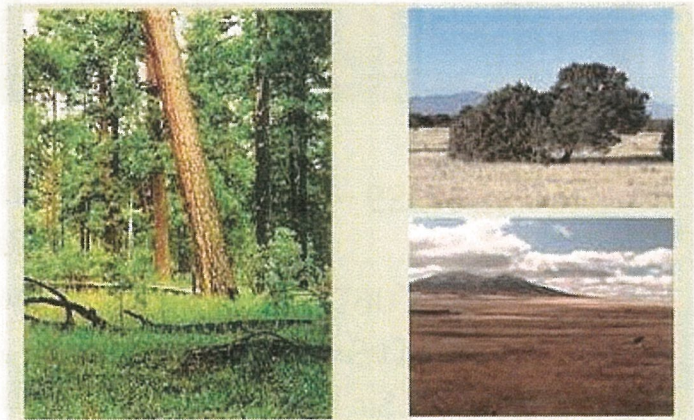


# Forest Action Plan

June 2020 Completion

- Expert and stakeholder engagement
- Statewide assessment of resource conditions
- Climate change and 7 other models
- Strategies for next 10 years

*New Mexico Statewide  
Natural Resources Assessment &  
Strategy and Response Plans*

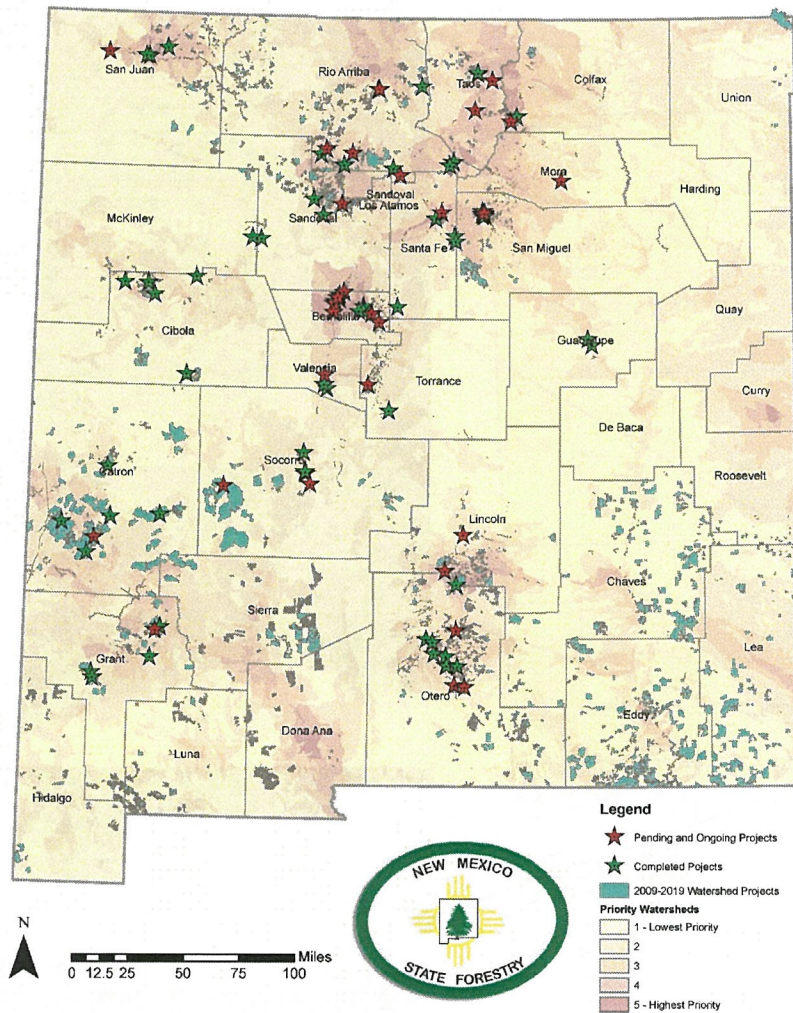


*A Science-based Process for Identifying,  
Prioritizing and Conducting Natural Resource  
Management and Restoration Activities.*





## All Watershed Restoration Initiative Projects



## Cumulative Forest and Watershed Restoration

**CIP FY2009 - FY2020**

**FAWRA FY2020**

# FY2020 Projects Forest and Watershed Restoration Act



Encino Vista



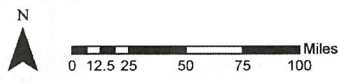
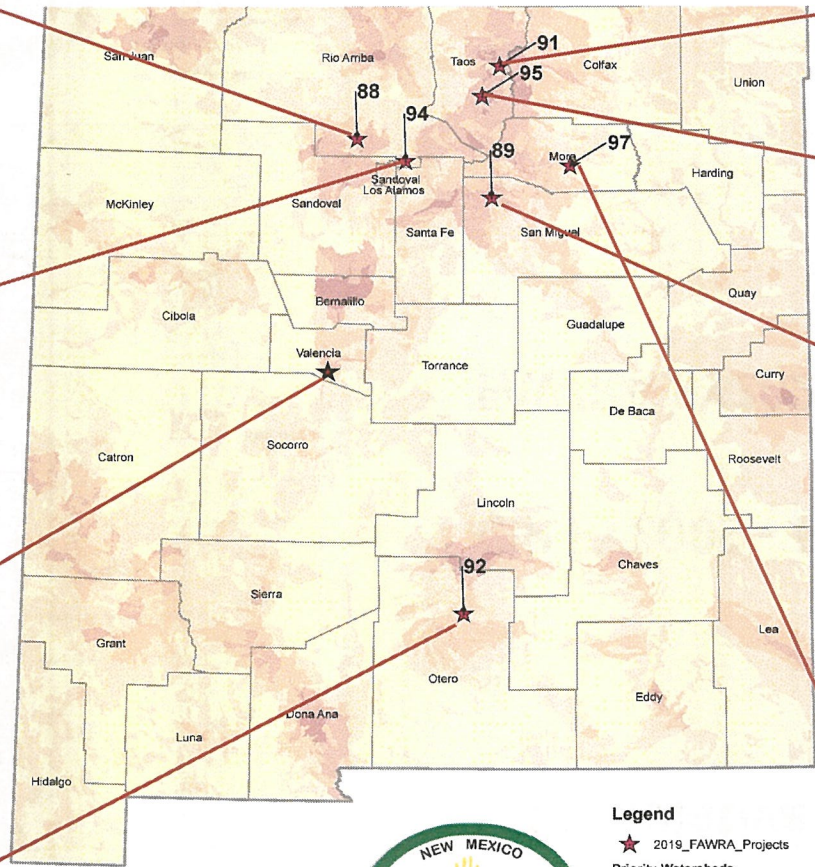
Santa Clara



Valencia Bosque



No Name Spring



- Legend**
- ★ 2019\_FAWRA\_Projects
  - Priority Watersheds
    - 1 - Lowest Priority
    - 2
    - 3
    - 4
    - 5 - Highest Priority



Northside/Hwy 150



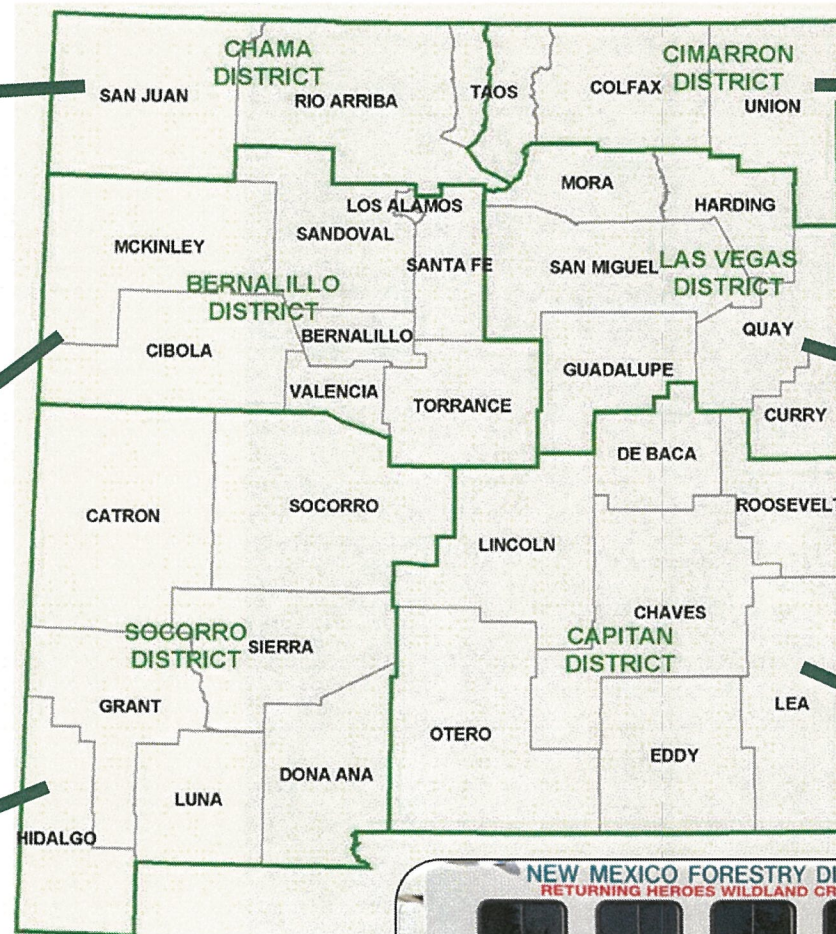
Gallinas IV



Fuelwood



Turkey Mts



State Forestry Districts  
[www.nmforestry.com](http://www.nmforestry.com)





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Map #	Project Name	Status	Date Completed	District	County	Proposed Project Funded	Funding Expended	% Completed	Target Acres	Completed Acres
1	Bar Six - Silver City RD	Completed	May-15	Socorro	Grant	\$ 203,401	\$ 203,401	100.0%	509	509
2	Mescalero Apache Tribe WR Project	Completed	May-15	Capitan	Otero	\$ 600,000	\$ 600,000	100.0%	433	433
3	Socorro Bosque Ribbon - MRGCD	Completed	May-15	Socorro	Socorro	\$ 30,000	\$ 30,000	100.0%	30	32
4	Hondo North - USFS Cibola	Completed	Aug-15	Bernalillo	Bernalillo	\$ 99,153	\$ 99,153	100.0%	135	153
5	San Pedro Project - State Land	Completed	Oct-15	Bernalillo	Santa Fe	\$ 50,302	\$ 50,302	100.0%	50	55
6	Canjilon/Cebolla Watershed - USFS Carson	Completed	Jan-16	Chama	Rio Arriba	\$ 462,588	\$ 462,588	100.0%	368	367
7	Dos Rios WR Project - State Land	Completed	Jan-16	Chama	San Juan	\$ 645,150	\$ 645,150	100.0%	510	542
8	Socorro Bosque Ribbon Phase II (Retreat)	Completed	Jan-16	Socorro	Socorro	\$ 5,460	\$ 5,460	100.0%	130	130
9	Black Deer/ Six Shooter - USFS Gila	Completed	May-16	Socorro	Catron	\$ 600,300	\$ 600,300	100.0%	667	667
10	Leggett-Starkweather WRP- USFS Reserve RD	Completed	Jun-16	Socorro	Catron	\$ 175,500	\$ 175,500	100.0%	540	512
11	Mescalero Apache Tribe Phase II	Completed	Jun-16	Capitan	Otero	\$ 200,000	\$ 200,000	100.0%	270	310
12	Slaughter Mesa WRP - USFS Quemado RD	Completed	Jun-16	Socorro	Catron	\$ 668,400	\$ 668,430	100.0%	2,228	2,582
13	Burro WR Project - USFS Silver City RD	Completed	Aug-16	Socorro	Grant	\$ 838,800	\$ 838,800	100.0%	4,308	4,308
14	Sulphur Sub Unit B - USFS Cibola	Completed	Aug-16	Bernalillo	Bernalillo	\$ 229,153	\$ 229,153	100.0%	312	337
15	Gallinas Watershed Phase I - USFS Santa Fe	Completed	Sep-16	Las Vegas	San Miguel	\$ 452,100	\$ 452,100	100.0%	411	421
16	Bernalillo Bosque Retreat (IWC Retreat)	Completed	Dec-16	Bernalillo	Bernalillo	\$ 9,472	\$ 9,472	100.0%	149	149
17	Coyote Creek/Black Lake - State Land	Completed	Dec-16	Cimarron	Colfax	\$ 499,997	\$ 499,998	100.0%	333	330
18	Elk Springs - Bureau of Land Management	Completed	Dec-16	Bernalillo	Sandoval	\$ 211,415	\$ 211,415	100.0%	383	726
19	Georgetown - Silver City RD	Completed	Dec-16	Socorro	Grant	\$ 99,000	\$ 99,000	100.0%	220	220
20	Sulphur Sub Unit A - USFS Cibola	Completed	Dec-16	Bernalillo	Bernalillo	\$ 117,514	\$ 117,514	100.0%	160	199
21	Two Goats - USFS Lincoln	Completed	Dec-16	Capitan	Otero	\$ 1,235,953	\$ 1,235,953	100.0%	1,535	1,349
22	Bluewater - State Land/USFS Cibola	Completed	Jan-17	Bernalillo	Cibola	\$ 303,210	\$ 303,210	100.0%	530	700
23	Blue Hole T&E Rx - (IWC)	Completed	Feb-17	Las Vegas	Guadalupe	\$ 2,453	\$ 2,453	100.0%	116	116
24	Gallinas Watershed Phase II - USFS Santa Fe	Completed	Mar-17	Las Vegas	San Miguel	\$ 432,434	\$ 432,434	100.0%	288	288
25	Socorro Bosque Ribbon Phase III - Socorro	Completed	Mar-17	Socorro	Socorro	\$ 40,000	\$ 40,000	100.0%	80	154

Map #	Project Name	Status	Date Completed	District	County	Proposed Project Funded	Funding Expended	% Completed	Target Acres	Completed Acres
26	31 Mile Corridor - BLM Farmington	Completed	Apr-17	Chama	Rio Arriba	\$ 94,760	\$ 94,760	100.0%	92	92
27	Aztec Springs - City of Santa Fe	Completed	May-17	Bernalillo	Santa Fe	\$ 55,803	\$ 55,803	100.0%	90	90
28	NW Rivers Restoration - BLM Farmington	Completed	May-17	Chama	San Juan	\$ 1,020,475	\$ 1,020,475	100.0%	1,020	643
29	Burro/Upper Moraga - Reserve RD	Completed	Jun-17	Socorro	Catron	\$ 324,300	\$ 324,300	100.0%	1,100	1,081
30	Jim Lewis Landscape - USFS Sacramento Rd	Completed	Jun-17	Capitan	Otero	\$ 750,000	\$ 750,000	100.0%	750	750
31	Jim Springs #2 - USFS	Completed	Jun-17	Capitan	Otero	\$ 150,000	\$ 150,000	100.0%	200	200
32	McKnight South - Wilderness RD	Completed	Jun-17	Socorro	Grant	\$ 200,250	\$ 200,250	100.0%	445	445
33	NMDGF Big Game Enhancement - USFS Cibola	Completed	Jun-17	Bernalillo	Cibola	\$1,000,000	\$1,000,000	100.0%	1,350	1,333
34	Aztec Springs Retreat (IWC)	Completed	Aug-17	Bernalillo	Santa Fe	\$ 14,152	\$ 14,152	100.0%	44	44
35	Canjilon Watershed Phase II	Completed	Sep-17	Chama	Rio Arriba	\$ 610,686	\$ 610,686	100.0%	698	687
36	Glorieta Corridor - State ROW	Completed	Oct-17	Las Vegas	San Miguel	\$ 122,115	\$ 122,115	100.0%	100	100
37	Blue Hole Re-treat	Completed	Nov-17	Las Vegas	Guadalupe	\$ 4,799	\$ 4,799	100.0%	116	116
38	Salinas Riparian (IWC)	Completed	Nov-17	Bernalillo	Torrance	\$ 17,915	\$ 17,915	100.0%	16	16
39	Salitre Mesa/Bluewater WRP - Mt. Taylor RD	Completed	Nov-17	Bernalillo	Cibola	\$ 212,520	\$ 212,520	100.0%	450	506
40	Alameda Bridge Project	Completed	Dec-17	Bernalillo	Bernalillo	\$ 10,407	\$ 10,407	100.0%	30	30
41	Rio Ruidoso WR Project - Smokey Bear RD	Completed	Dec-17	Capitan	Lincoln	\$ 493,268	\$ 493,268	100.0%	500	434
42	Valencia Co. Bosque	Completed	Jan-18	Bernalillo	Valencia	\$ 30,480	\$ 30,480	100.0%	10	10
43	Gallinas Phase 3	Completed	Feb-18	Las Vegas	San Miguel	\$ 450,000	\$ 450,000	100.0%	300	431
44	San Juan Riparian	Completed	Mar-18	Chama	San Juan	\$ 203,240	\$ 203,240	100.0%	200	382
45	Valencia County Tome (IWC)	Completed	Mar-18	Bernalillo	Valencia	\$ 4,197	\$ 4,197	100.0%	10	10
46	2018 Bosque Maintenance Project	Completed	May-18	Bernalillo	Valencia	\$ 11,000	\$ 11,000	100.0%	75	75
47	Tio Gordito - USFS	Completed	Jun-18	Chama	Taos	\$ 341,961	\$ 341,961	100.0%	935	935
48	Cerro I WRP- BLM Taos	Completed	Oct-18	Cimarron	Taos	\$ 106,000	\$ 106,000	100.0%	67	67
49	Cerro II WR Project - BLM Taos	Completed	Oct-18	Cimarron	Taos	\$ 291,697	\$ 291,697	100.0%	283	159
50	Mesa Chivato - BLM	Completed	Oct-18	Bernalillo	Cibola	\$ 228,557	\$ 228,556	100.0%	871	871

Map #	Project Name	Status	Date Completed	District	County	Proposed Project Funded	Funding Expended	% Completed	Target Acres	Completed Acres
51	Joaquin Canyon WR Project - USFS Cuba RD	Completed	Nov-18	Bernalillo	Sandoval	\$ 654,885	\$ 654,885	100.0%	725	693
52	Burro 3 Collins Park	Completed	Dec-18	Socorro	Grant	\$ 420,400	\$ 420,400	100.0%	1,401	1,401
53	Gallinas Phase 3-A	Completed	Dec-18	Las Vegas	San Miguel	\$ 59,105	\$ 59,105	100.0%	37	173
54	La Cueva Block E - Pecos - Las Vegas Rd	Completed	Dec-18	Bernalillo	Santa Fe	\$ 117,971	\$ 117,971	100.0%	170	133
55	Mescalero Apache Tribe Phase III	Completed	Dec-18	Capitan	Otero	\$ 375,000	\$ 375,000	100.0%	270	420
56	Cordova WR Project - USFS Coyote RD	Completed	Jan-19	Chama	Rio Arriba	\$ 625,874	\$ 625,874	100.0%	876	834
57	Entranas - USFS	Completed	Jan-19	Chama	Taos	\$ 105,000	\$ 105,000	100.0%	247	247
58	Francisco - USFS	Completed	Jan-19	Chama	Taos	\$ 191,381	\$ 191,381	100.0%	382	382
59	Central Rio Grande Bosque	Completed	Mar-19	Socorro	Socorro	\$ 657,632	\$ 657,555	100.0%	600	1,294
60	Ojitos Mesa - Cuba RD	Completed	Mar-19	Bernalillo	Sandoval	\$ 652,200	\$ 652,200	100.0%	745	741
61	Bosque School Corrales 2019	Completed	Apr-19	Bernalillo	Santa Fe	\$ 12,000	\$ 12,000	100.0%	26	26
62	Bluewater (Monighan) - USFS	Completed	May-19	Bernalillo	Cibola	\$ 947,500	\$ 947,500	100.0%	1,000	1,029
63	Bluewater II - Sacramento RD	Completed	May-19	Capitan	Otero	\$ 397,000	\$ 397,000	100.0%	720	720
64	Mertz Ranch - BLM - South of Acoma Pueblo	Completed	May-19	Bernalillo	Cibola	\$ 384,343	\$ 384,343	100.0%	1,465	1,465
65	N. San Mateo - BLM	Completed	May-19	Bernalillo	Cibola	\$ 110,664	\$ 21,576	19.5%	477	93
66	Pelona - BLM	Completed	May-19	Socorro	Catron	\$ 90,016	\$ 90,016	100.0%	388	388
67	Cedro A - Sandia RR	Completed	Jun-19	Bernalillo	Bernalillo	\$ 395,029	\$ 394,345	99.8%	320	595
68	Circle Cross	Ongoing		Capitan	Otero	\$ 250,000	\$ 120	0.0%	582	120
69	Hyde Memorial StatePark (IWC/RHP)	Ongoing		Bernalillo	Santa Fe	\$ 70,000	\$ 47,065	67.2%	50	44
70	Mertz Ranch 2 - BLM - South of Acoma Pueblo	Ongoing		Bernalillo	Cibola	\$ 196,095		0.0%	725	
71	Mesa del Camino WRP - USFS Coyote RD	Ongoing		Chama	Rio Arriba	\$ 434,257	\$ 294,300	67.8%	421	425
72	Canjilon Phase 3	Ongoing		Chama	Rio Arriba	\$ 250,000	\$ -	0.0%	250	
73	Gallinas Phase 4	Ongoing		Las Vegas	San Miguel	\$ 250,000	\$ -	0.0%	160	
74	Upper Coyote Creek	Ongoing		Cimarron	Colfax	\$ 500,000	\$ 74,416	14.9%	320	47

Map #	Project Name	Status	Date Completed	District	County	Proposed Project Funded	Funding Expended	% Completed	Target Acres	Completed Acres
75	Baseball Restoration	Pending		Socorro	Catron	\$ 500,000	\$ -	0.0%	700	
76	Bosque School BEMP Invasive	Pending		Bernalillo	Santa Fe	\$ 10,000	\$ -	0.0%	10	
77	Canyon Tank Restoration	Pending		Socorro	Grant	\$ 155,000	\$ -	0.0%	464	
78	Capilla	Pending		Bernalillo	Torrance	\$ 200,000	\$ -	0.0%	200	
79	Cedro	Pending		Bernalillo	Bernalillo	\$ 400,000	\$ -	0.0%	400	
80	Central NM Non-native Species Removal	Pending		Bernalillo	Bernalillo	\$ 10,000	\$ -	0.0%	10	
81	Corrales Fules Reduction and Invasive Removal	Pending		Bernalillo	Bernalillo	\$ 75,000	\$ -	0.0%	50	
82	Durfee-Bolander Forest Restoration	Pending		Socorro	Socorro	\$ 50,000	\$ -	0.0%	150	
83	Hyde Park (IWC/RHP)	Pending		Bernalillo	Santa Fe	\$ 80,000	\$ -	0.0%	80	
84	Paseo Del Norte SW	Pending		Bernalillo	Bernalillo	\$ 5,000	\$ -	0.0%	4	
85	Ski Run - USFS Smokey Bear RD	Pending		Capitan	Lincoln	\$ 100,000	\$ -	0.0%	100	
86	Baca Hand Thin	Pending		Capitan	Lincoln	\$ 200,000	\$ -	0.0%	333	
87	Bosque Ribbon Phase 3 - Socorro	Pending		Socorro	Socorro	\$ 65,000	\$ -	0.0%	45	
88	Encino Vista Landscape Restoration	Pending		Chama	Rio Arriba	\$ 500,000	\$ -	0.0%	5,000	
89	Gallinas Watershed Restoration Phase 5	Pending		Las Vegas	San Miguel	\$ 500,000	\$ -	0.0%	312	
90	Jim Lewis	Pending		Capitan	Otero	\$ 420,000	\$ -	0.0%	575	
91	Northside	Pending		Cimarron	Taos	\$ 200,000	\$ -	0.0%	100	
92	Red Cabin 2019, No Name Springs #1	Pending		Capitan	Otero	\$ 500,000	\$ -	0.0%	320	
93	San Juan River	Pending		Chama	San Juan	\$ 700,000	\$ -	0.0%	1,350	
94	Santa Clara Creek Wetland Restoration	Pending		Chama	Rio Arriba	\$ 44,400	\$ -	0.0%	20	
95	Small Diameter Wood Products	Pending		Cimarron	Taos	\$ 25,000	\$ -	0.0%	NA	
96	Southwest Jemez	Pending		Bernalillo	Sandoval	\$ 500,000	\$ -	0.0%	365	
97	Turkey Mountain Watershed Restoration	Pending		Las Vegas	Mora	\$ 220,000	\$ -	0.0%	146	
98	Valencia County Bosque Fuels (Bernalillo)	Pending		Bernalillo	Valencia	\$ 50,000	\$ -	0.0%	25	
							<b>Total Acres Completed</b>			<b>36,365</b>