

	Goal	Category	Sub-category	Indicator	Method	Existing Equipment	Needed Equipment	Equipment Status	When	Lead	Gaps	Contact	Costs?
NFF Outcomes and Indicators	The change in rating on the eight ecological outcome measures (landscape scale and project scale for fire regime restoration, fish and wildlife habitat condition, watershed condition, and non-native invasive species, or NNIS severity) based on desired conditions established by the CFLR collaborative.			Ecological 1 - 10					Projects 3, 5, 7, and 10 years. Landscapes 5 and 10 years.				
	Identify changes in local economies resulting from the project both directly and indirectly. Monitor changes in project goals. Affect management changes as identified by monitoring data and/or observations.			Wildfire Costs Reduction	RCAT	na	na	na	"				
				Jobs/Economics	Direct tracking and TREAT	na	na	na	"				
				Leveraged Funds	Direct tracking and TREAT	na	na	na	"				
				Collaboration	CFRP methods	na	na	na	"				

Ecological	Maintain or improve water quality and watershed function, and mitigate climate change impacts. from the Forest Landscape Restoration Act (PL 111-11, Sec. 4003(c))	Hydrology		Quantity and Quality		Bluewater Creek USGS; Rio Nutria near Ramah USGS;					Mike Matush; Forest Hydrologist Livia Crowley; UNM Partnership		
		Climate				1 RAWs on Bluewater Ridge				Soil Temp and Moisture			
						1 SNOTEL at Rice Park		Extra snotel? Or mobile weather station?					snotel \$12 - 15K?
	Identify changes in ecosystem structure, function, and processes toward or away from the Zuni Mountain Landscape Strategy.	Vegetation		Changes in forest structure and composition	Standing exams (Intensity 1:10 ratio with nearest neighbors as needed)				Projects 3, 5, 7, and 10. Landscapes 5 and 10.		Existing (ERI Macro plots in showcase, copperton, corral,; NMFWR did 20-30 plots in showcase)		
			Implementation	Meeting rx specifications	Already happening					MTRD			

Ecological	Improve fish and wildlife habitat, including endangered, threatened and sensitive species. (PL 111-11, Sec. 4003(c) "The Act"	Mammals	Small	Changes in population, distribution, and habitat quality of small mammals															NMGF (Craig Sanchez, Bev DeGruyter Forest Biologist, Consuelo Zamora)		
			Large	Changes in population, distribution, and habitat quality of large and small mammals																	
		Invertebrates	Aquatic	Changes in composition	Youth doing rapid assessment					Annually	FG and CWG										
			Terrestrial	Changes in composition	Pitfall trap array					Annually	FG and CWG										
			Tree pests																		
		Fish	ZBS								NMG&F									Eliza from NMG&F	
		Birds	NOGO		USFS protocols						MTRD									Consuelo doing surveys	
			Songbirds		Point counts						MTRD									Consuelo doing surveys	
			Turkey		Point counts						MTRD									Consuelo doing surveys	

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Ecological</p>	<p>Contribute toward restoration of pre-fire suppression old-growth forest and other structural and compositional conditions representative of the historic variability within each ecosystem. Reduce the risk of uncharacteristic wildfire, and re-establish natural fire regimes.</p>	<p>Wildfire effects</p>		<p>Changes in wildfire behavior</p>	<p>FlamMap outputs from stand exams.</p>					<p>CNF and FG</p>			
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Implementation</p>				<p>Smoke management effects?</p>	<p>Wildfire only vs. rx fire effects vs. fire for resource benefit?</p>	<p>Use rx fire smoke monitoring data to compare? Look into WFDSS.</p>				<p>MTRD</p>			

Socioeconomic	Contribute woody by-products for social and economic community benefits. From the Forest Landscape Restoration Act (PL 111-11, Sec. 4003(c))	Wood utilization		Amount and types of products generated		Forest has volumes and values				FG		
				Where they are processed and sold		What does it get turned into?				FG		
				Effects of the project on businesses		Interviews					FG	
		Wildfire suppression cost savings		RCAT/SCI (already happening)/WFDS S		See landscape strategy WFDSS				FG and MTRD		Barbara Day
		Livestock grazing		Benefits of restoration on ranching community and economy	changes in grazing regimes and interviews with permittees							Virginia Yazzie-Ashley, with support with Rick Newmon
		Cultural resource protection		Protect resources from treatment effects	Existing methods							District Archaeologist, Linda Popelish

Socioeconomic		Ecosystem services		Recreation and tourism.	Visitor days, campground use, events? Trail usage, fee areas, vehicle usage/traffic, (hunters; outfitter #'s, fishing, deer and elk tag numbers and values) Counties track hunting tag values?						Arnold Wilson, just completed visitor use surveys last year, intervals?, Zuni Mountain Trail Partnership	
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