

Beaver County Catastrophic Wildfire Project Proposal

Community: North Creek, Last Chance, Manderfield and Indian Creek Plan Area.
(North Beaver)

High Value Resources & Assets (HVRA)

- HL=Human Life (433 fulltime and 132 seasonal = 565_)
- BI=Built Infrastructure (85 primary, 26 secondary, 22 AG buildings market = \$13,467,439 / 10 miles of main power line = \$10,000,000 / and local power grid = \$1,500,000 / Baker Canyon water system = \$2,200,000 / 5 miles of I-15)
- MW=Municipal Watersheds (Baker Canyon Beaver City serves 3500 & wildlife, North Creek AG & wildlife and Indian Creek AG & wildlife)
- CP=Area Managed for Timber or Forage Production (_____)
- FW=Important Fish and Wildlife Habitats (Winter Wildlife Range and Fish Habitats)
- AP=Areas of Agricultural Production (6 AG Producers 2000 acres 5 tons per acre value of \$2,000,000 of alfalfa annually.)
- DR=Developed Recreation Areas (Piute Trail System)
- OT=Other Economic Drivers

Amount (Plan Area 88,050 Acres) (Total Estimated HVRA (\$27,167,439)

Importance: Reduce hazardous fuels to protect life and property from catastrophic wildfire, restore and improve aspen regeneration the mountain shrub sagebrush/steppe ecosystems while increasing plant diversity and improve watershed conditions, enhance habitat conditions for mule deer, Elk, sagebrush-obligate wildlife and other wildlife species and decrease the amount of Pinyon / Juniper encroachment into areas historically dominated by big sagebrush.

HL= BI= MW= CP= FW= AP= DR= OT=

See Guidelines and assign a value then provide a BRIEF narrative if necessary to explain any ranking that is not real straight forward

Value Rating: to be done by the regional group.

What we will need for the Likelihood of Threat is a shape file of the project area. Send this to me and we will have the geospatial analysis done by a GIS specialist.

Actions to Mitigate Threat:

- **Cut Chip and Burn within the communities Private land**
Responsible for implementing (Land Owners with State of Utah assistance)
- **Mechanical bull hogging and RX Fire on Federal and State Land**
- **Responsible for implementing (BLM and State of Utah)**
- **Rx Fire In Watershed areas on federal forest service land**
Responsible for implementing (US Forest Service)

All actions are area and treatment specific and will not be limited to: cutting, chipping and pile burning around structures. Mastication/bull hogging, chaining and burning on BLM/State land. Rx burning 3000 to 5000 acre plots on USFS land in watershed areas to reduce the impact of catastrophic vegetation loss. Each agency involved will develop strategies, specific needs to meet objectives of the project plan.

Within the identified important fish habitat any treatment in the riparian areas will be mechanical and Rx fire will be avoided. Work within the drainages of these identified habitats will be no more that 30% per year and special considerations to areas with steep slopes. It is also important to note that any large scale burning that occurs in this project area is likely to have downstream impacts and could affect the fishery in Minersville Reservoir.

Work in the identified mule deer and elk winter habitat will be focused on Pinyon and Juniper removal. Rx fire will be avoided in sagebrush areas work will be mechanical with consultation of the (UDWR) in these areas.
(Priorities)

1st Cut Chip treat 5000 acres @ \$ 2000 per acre \$10,000,000 with seeding included.

2nd Mechanical bull hogging and Rx Fire, mechanical 15,000 acres @ \$500 per acre \$7,500,000 / RX Fire 10,000 acres @ \$70 per acre \$700,000 seeding included.

3rd Rx Fire In Watershed areas treat 25,000 acres @ \$70 per acre \$1,750,000 seeding included.

Estimated cost \$19,950,000 to treat 55,000 acres of total project acres of 88,050 acres.

Estimated average cost \$363 per treated acre.

Once treated each land owner or agency will be responsible for maintaining the treated areas. This may include herbicide spraying, cutting and removal of invasive species and continued thinning of vegetation on private lands. On federal lands other treatments may be grazing and Rx fire in some areas. All land owners or agency will be responsible for all cost and will be required to maintain their own land.

Community Protection: Local Fire officials, community leaders, Community Wildfire Councils and other stake holders have agreed that these five areas are of major importance to maintaining a catastrophic fire free environment. The community is currently working on Community Wildfire Protection Plan (CWPP) updates, adoption of Firewise concepts, Ready Set Go program training and implementation and Evacuation planning needs are being addressed with County Emergency Management.

- **Education and Outreach**
Responsible for implementation (Landowners with State of Utah assistance)
- **WUI Fuels Treatments**
Responsible for implementation (Landowners with State of Utah assistance)
- **Fire Prevention Programs**
Responsible for implementation (Landowners and Beaver County)
- **Evacuation planning**
Responsible for implementation (Beaver County Emergency Management)
- **Ready-Set-Go Training**
Responsible for implementation (Landowners, Local Fire Department with State of Utah assistance)

Community Priorities:

1st Education and Outreach, 2nd WUI Fuels Treatments, 3rd Ready-Set-Go Program Training, 4th Evacuation planning and 5th Fire Prevention Programs.

Estimate cost \$ 50,000 to administer programs and materials for all but Fuels Treatment.

Fire Management Capacity and Capability: local fire protection actions to be taken to reduce a catastrophic wildfire risk include a recruitment, retention and incentive program, advanced training and firefighter equipment purchases and upgrades.

- **Volunteer recruitment and retention**
Responsible for implementation (Fire Department and Beaver County)
- **Training**
Responsible for implementation (Fire Department, Beaver County and State of Utah)
- **Equipment**
Responsible for implementation (Fire department and Beaver County)

Fire Management Priorities: 1st Training 2nd Volunteer recruitment and retention, 3rd Equipment

Estimate cost \$ 100,000 (for equipment purchases, a retention and incentive program and training materials)

Project Total \$ 20,100,000.00

Probability of Success: Funding dependant

Community Support (High)

North Creek, Indian Creek, Last Chance and Manderfield area is bordered by Bureau of Land Management, State and Fishlake National Forest properties. Surrounded with thick stands of native pinyon/juniper, aspen, conifer and high desert forage.

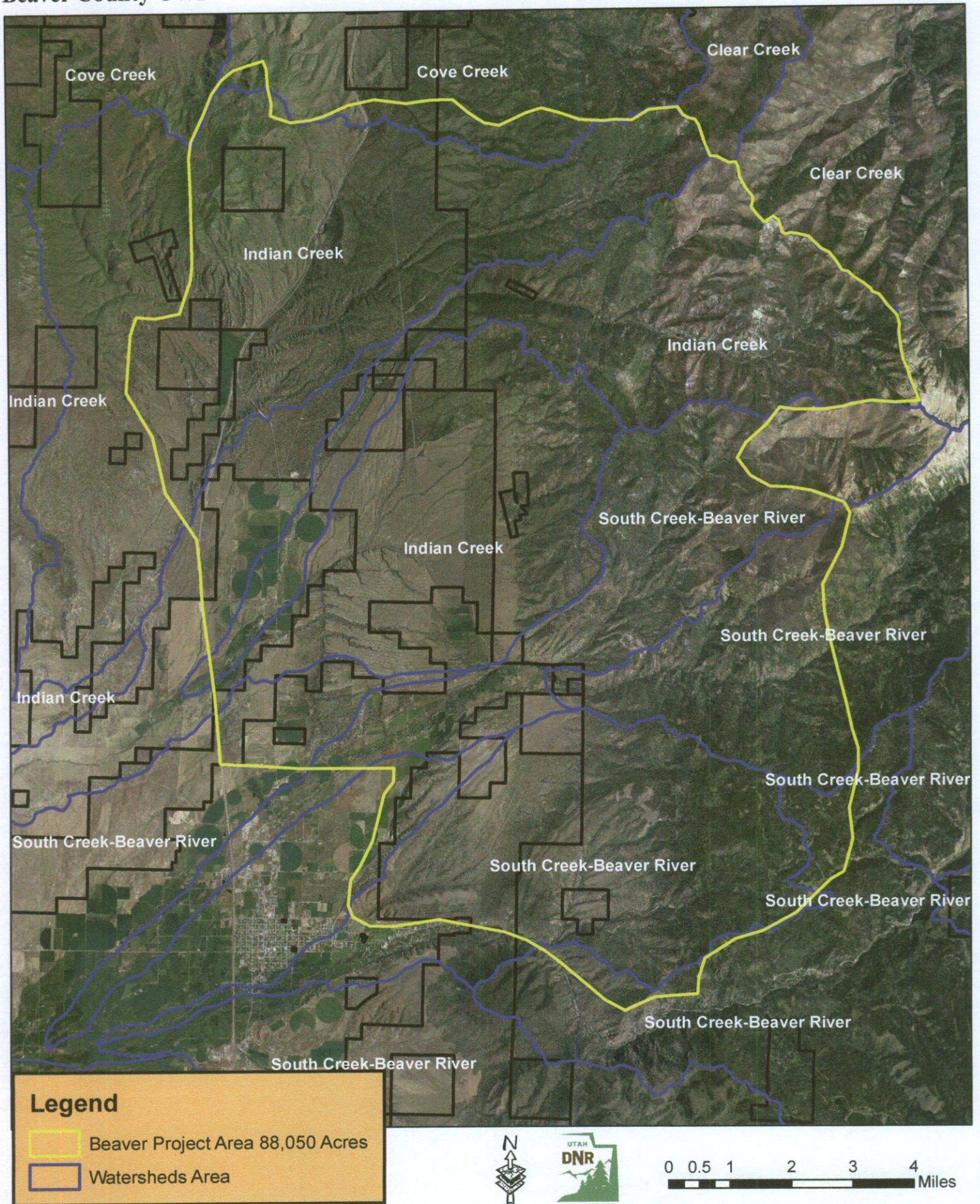
The Beaver County Commission, local fire officials and citizens in the community have agreed that there is a need for improved fire protection in this area. They have committed to identifying critical needs in education, evacuation, fuels treatments, fire department equipment and training. Many firefighting needs are inadequate and the need for survivable space in the community is great.

The Bureau of Land Management (BLM), Division of Wildlife Resources (DWR), Division of Forestry, Fire and State Lands (FFSL), Natural Resources Conservation Service (NRCS), United States Forest Service (USFS), homeowners and local sportsmen have all identified opportunities within the Indian Creek, Manderfield, Last Chance and North Creek area to reduce hazardous fuels and risk to life and property from catastrophic wildfire, restore and mountain shrub sagebrush/steppe ecosystems while increasing plant diversity and improve watershed conditions, enhance habitat conditions for mule deer, Elk, sagebrush-obligate wildlife and other wildlife species and decrease the amount of pinyon/juniper and conifer encroachment into areas historically dominated by sagebrush and aspen.

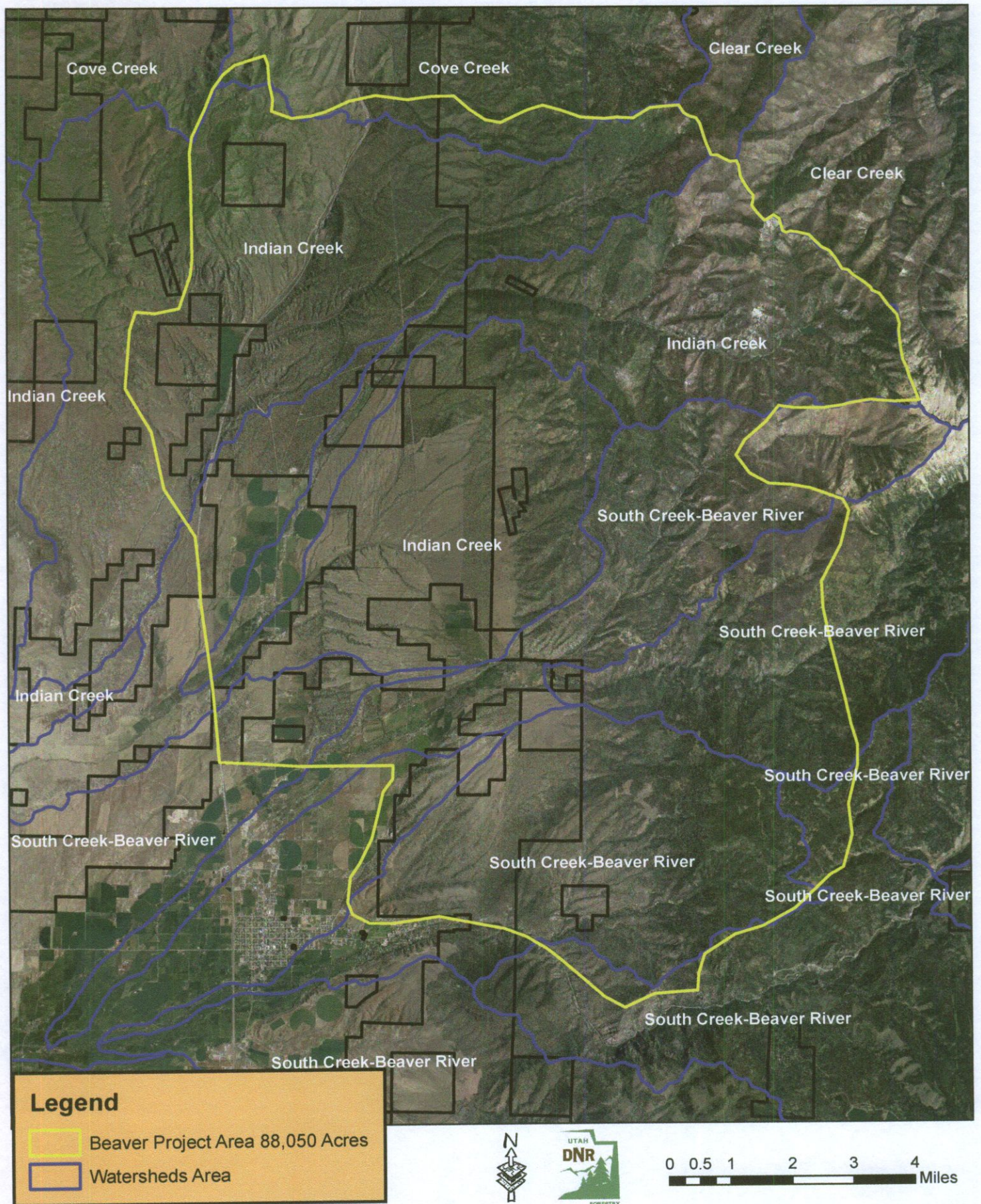
This project will include: mechanical, hand thinning, chipping, prescribed fire, chaining, aerial seeding, and chemical treatments to meet specific objectives. Upon completion of this project, community fire protection, wildlife habitat and watersheds will be greatly enhanced. All land owners will need to maintain all work to assure the prevention of a catastrophic event in this area.

The attached maps include the overall project boundaries and areas to be treated the actual acres in each area will vary dependent on specific conditions and environmental impacts. The overall project is 88,050 acres with a estimated treatment of 55,000 acres.

Beaver County CWP



Beaver County CWP



Community	HVRA's at Risk			Likelihood of Threat			Risk Rating	Actions to Mitigate Threat				Return on Investment	Probability of Success						
	Type	Amount	Importance	Value Rating	Occurrence (BP)	Intensity (CFL)		Hazard Rating	Actions by Goal	Cost	Who		Priority	Community Support	Effectiveness	Practicality	Overall		
																		Landscaping Resilience	Community Protection
North Creek, Manderfield, Last Chance and Indian Creek	Human Life and Health	0.05	High					Landscaping Resilience											
	Built Infrastructure	11,380	High					Cut, clip and burn private	\$ 10,000,000	landowner with state assistance	1	High							
	Municipal Watersheds	25,000	High					Mechanical and RX burning on federal and state land	\$ 7,500,000	15,000 acres of mechanical and 10,000 acres of burning BLM and State	2	High							
	Areas of Timber and Forage production	N/A	N/A					RX burning on federal forest service land	\$ 1,750,000	25,000 acres of burning to improve watershed	3	Moderate							
	Important Fish and Wildlife areas	58,700	High					Community Protection											
	Agricultural Production	2,000	High					Education and Outreach	\$ 100,000	landowner with state assistance	2								
	Developed Recreation areas	N/A	N/A					WUI Fuels treatment	all	landowner with state assistance	1								
	Other economic drivers	N/A	N/A					Fire Prevention Programs	all	landowner with beaver county assistance	5								
	Total Relative Value Rating				Total Relative Risk Rating														
									Fire Management Capacity and Capability										
								Volunteer recruitment and retention				recruitment and incentive program				2			
								Training				advanced training				1			
								Equipment				purchase new ppe and other equipment				3			
								Total Mitigation Cost				Acres 88,050 \$20,100,000.00							