



**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

#3

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	BO
County:	Boulder
Date:	2/15/12
Dollar Amount Requested:	\$ 0 100K
Matching Share:	\$ 0 100K

Applicant Information	
<b>Name of Project:</b>	Lower Four Mile D-Space
<b>Applicant:</b>	Four Mile Fire Protection District
<b>Contact Person:</b>	Bret Gibson, Chief
<b>Address:</b>	87 Four Mile Canyon Drive
<b>City/Zip Code:</b>	Boulder
<b>Phone (Work/Cell):</b>	303-444-0882
<b>Email:</b>	Bret Gibson <bret@bouldermountainlodge.com>
<b>Fax:</b>	

Community-at-Risk Information	
<b>Community Name:</b>	Four Mile
<b>County:</b>	Boulder
<b>Name of CWPP</b>	<a href="http://bcn.boulder.co.us/emergency/fourmile/cwpp.shtml">http://bcn.boulder.co.us/emergency/fourmile/cwpp.shtml</a>
<b>Location to obtain/review</b>	Four Mile

Grant Contributors (Matching Share)							
<small>(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.</small>							
Contributors: (Please specify)	Four Mile Fire	Home Owners					TOTAL
<b>Dollars (Hard Match):</b>	50,000	50,000	\$0	\$0	\$0	\$0	\$ 100,000
<b>In-Kind (Soft Match):</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0
<b>TOTAL:</b>	\$50,000	\$50,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 100,000

Total Project Expense (break down matching share totals from block three)				
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
		Dollars	In-Kind	
<b>Personnel / Labor:</b>	\$80,000	\$80,000	\$0	\$ 160,000
<b>Operating:</b>	\$20,000	\$20,000	\$0	\$ 40,000
<b>Travel:</b>	\$0	\$0	\$0	\$ 0
<b>Contractual Services:</b>	\$0	\$0	\$0	\$ 0
<b>Equipment:</b>	\$0	\$0	\$0	\$ 0
<b>Indirect Costs:</b>	\$0	\$0	\$0	\$ 0
<b>TOTAL:</b>	\$ 100,000	\$ 100,000	\$ 0	\$ 200,000



<b>Project Summary (check all that apply and answer related questions)</b>				
5	Is this project identified through a CWPP?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Improving forest health conditions by restoring ecosystem function, structure and species composition.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Number of acres to be treated:		200	Estimated cost/acre:	\$1,000
List the communities directly affected by this project:			3 projects in Lower Four Mile Canyon and Boulder Canyon up to tunnel	



	<p align="center"><b>Project Area Description</b></p> <p align="center">All information for the project must fit into the allotted character space provided below. Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
6	<p><b>Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment &amp; Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters</b></p> <p>The 2010 Four Mile Fire burned over 6,000 acres in the Wildland Urban Interface of the Front Range in Boulder County. While many structures were lost, fortunately a greater number of them were saved, but still remain at risk in our heavily wooded district. Continuing mitigation efforts to protect the green areas and the values at risk within our community remains a high priority, featured in our CWPP, and is part of the Colorado State Forest Resource Strategy. Many homes still lack adequate defensible space (D-space). This project aims to create as many D-spaces around homes as possible, in effect, creating large linked D-space areas where the overall threat of wildfire can be greatly reduced. By utilizing the Four Mile Mitigation Crew, we propose 3 projects to mitigate 200 acres of the Lower Four Mile Canyon, and portions of lower Boulder Canyon near homes within the Four Mile District to: a) protect the area from future burns through fuels reduction, creation of defensible space and escape routes, b) enable the re-establishment of ecosystems and habitat in response to the fire, and c) to lessen the potential for serious post-fire soil erosion and subsequent degradation of the water shed which threatens local water supplies. Pinebrook Hills maintains a pumping station for domestic water supply at a site less than a mile downstream of this neighborhood in the Four Mile Creek. The project has buy-in from stakeholders in the neighborhoods, which stand ready to partner with this project and the Four Mile Fire Protection District to achieve these goals. The attached map outlines the project areas and shows local roads, structures and creeks.</p>
7	<p align="center"><b>Scientific Foundation/Practice Standards</b></p> <p align="center">All information for the project must fit into the allotted character space provided below. Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters</b></p> <p>This project is based on priority assessment from the Four Mile Fire Protection District CWPP (<a href="http://bcn.boulder.co.us/emergency/fourmile/cwpp.shtml">http://bcn.boulder.co.us/emergency/fourmile/cwpp.shtml</a>) and is in keeping with best practices as defined by Colorado State Forest Service and further outlined by FOURMILE EMERGENCY STABILIZATION BURNED AREA REPORT (10/10/2010). We plan to work closely with the Colorado State Forest Service Forest Management Division to ensure our green tree mitigation and defensible space work aligns with the most current standards and requirements.</p>
8	<p align="center"><b>Risk Reduction</b></p> <p align="center">All information for the project must fit into the allotted character space provided below. Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>



**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

As a result of the Four mile Fire in 2010, some of the fuels in our district were reduced, but many neighborhoods remain forested with unnaturally thick stands of trees, having flourished for over a century without mitigation or fire. While the 2010 fire was indeed a significant fire, it was only a fraction of the area that remains at risk. Fuel loading is high and defensible spaces around homes are either inadequate or non-existent. By coordinating neighborhoods to create and expand linked D-spaces, we hope to reduce the fuels, improve the survivability of homes, and the viability of escape routes, all of which will reduce risk to the public, our firefighters and the structures themselves.



## Scope of Work/Project Timeline

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters**

We propose to mitigate approximately 200 acres of property on private land, in cooperation with landowners, utilizing the Four Mile Mitigation Crew over a period of 2 years. A lengthy and detailed scope of work is prepared and shared with both the CSFS and the landowners prior to work. The primary goal is to work with property owners to create defensible space around structures, linked where possible to reduce the over all fire potential. Project areas will be mitigated to the "shaded fuel break/defensible space" standard as prescribed by the CSFS as defined in the Healthy Forest Initiative. Strategies employed will be tailored specifically for burned, and unburned areas. Trees will be marked, cut, and bucked to similar lengths, depending on diameter and left piled near the stump. No buck piles or slash piles will be created within five feet of a retained tree to reduce the chances of an Ips Beetle infestation jumping from slash/bucks to a live, retained tree. All stumps will cut low to the ground, and where appropriate, contour falling of trees will be used on a limited basis to mitigate soil erosion, and soil migration. Slash will be piled for chipping near roads, broadcast to 1 inch deep over green areas. Where impractical, slash piles will be hauled away, burned, or lopped and scattered.

**Provide a timeline for the project, including significant accomplishment milestones. 500 characters**

If funded, all work is to be accomplished over the next 24 months. Here is the time line:

Benchmarks	Dates
Meetings with homeowner's	4/01/12 - 12/31/13
Marking trees	5/16/12 - 06/01/13
Mitigation of 3 project areas:	6/01/12 - 12/31/13

Site visits by CSFS will occur throughout project.

## Collaboration

**Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters**

Our collaborators include the landowners, the Colorado State Forest Service, Boulder County Open Space, City of Boulder Mountain Parks & Open Space, and Pine Brook Hills Water District. In addition, we will collaborate with volunteers of Four Mile FPD, offering further training and experience for graduates of the S-212 saws class. We plan on working with landowners to design defensible space, marking trees and identifying specific larger trees that will be key to restoring habitat and forest health. The project is definitely a team effort and its success will stand on our ability to bring all stakeholders to the table. In this regard the Four Mile Mitigation Crew has a successful track record, and is optimistic about the prospect of this project.

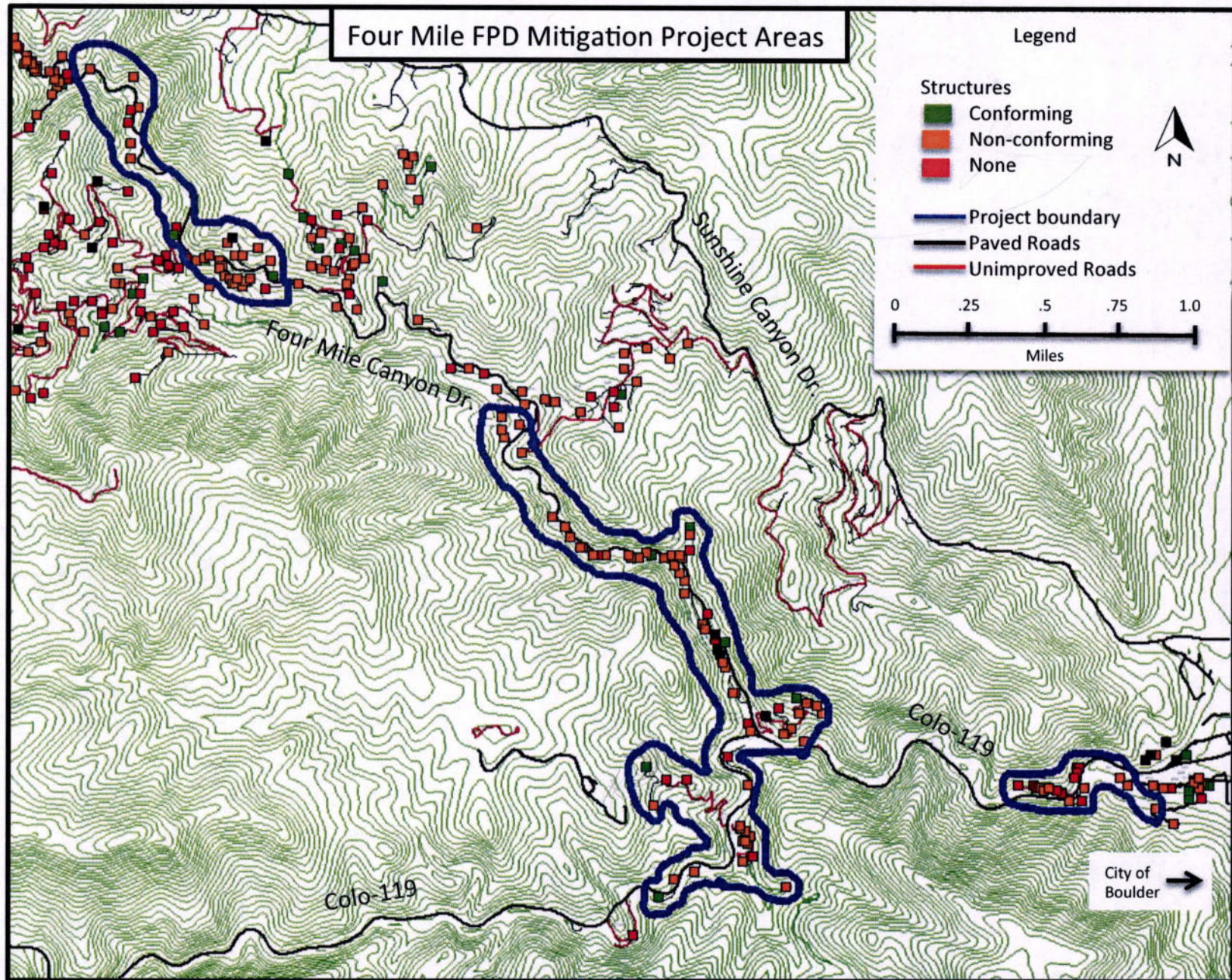
## Project Longevity/Maintenance



**Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters**

The long term benefits from properly mitigated forest will include a diminished threat of flooding and sediment transport into Four Mile Creek along with a healthier forest ecosystem that will be more resistant to catastrophic fire. Defensible space around structures will protect the property and provide greater safety to responding firefighters for decades to come.





Map of lower Four Mile and Boulder Canyons, showing 3 proposed treatment areas outlined in blue. There are 28 homes in the 92 acre Northern parcel, 77 homes identified in the larger, 348 acre parcel and 17 homes in the 50 acre parcel to the East. We are NOT treating all acres, but creating D-spaces around homes within these areas (estimated 200 acres for 122 total homes).





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FOR OFFICIAL USE ONLY	
Entity Submitting Project:	
County:	
Date:	
Dollar Amount Requested:	\$ 0
Matching Share:	\$ 0

1	Applicant Information	
	<b>Name of Project:</b>	Powerline Fuelbreak
	<b>Applicant:</b>	City of Longmont
	<b>Contact Person:</b>	Dennis Fisher
	<b>Address:</b>	7 South Sunset Street
	<b>City/Zip Code:</b>	Longmont, CO 80501
	<b>Phone (Work/Cell):</b>	303-823-6060
	<b>Email:</b>	<a href="mailto:Dennis.fisher@ci.longmont.co.us">Dennis.fisher@ci.longmont.co.us</a>
	<b>Fax:</b>	303-651-8759

2	Community-at-Risk Information	
	<b>Community Name:</b>	Button Rock Dam Watershed
	<b>County:</b>	Boulder
	<b>Name of CWPP</b>	Button Rock Forest Stewardship Plan
	<b>Location to obtain/review</b>	CSFS Boulder District office

3	Grant Contributors (Matching Share)							
	<small>(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.</small>							
	<b>Contributors: (Please specify)</b>	City Of Longmont						<b>TOTAL</b>
	<b>Dollars (Hard Match):</b>	\$36,000	\$0	\$0	\$0	\$0	\$0	<b>\$36,000</b>
	<b>In-Kind (Soft Match):</b>	\$4,000	\$0	\$0	\$0	\$0	\$0	<b>\$4,000</b>
	<b>TOTAL:</b>	<b>\$40,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$40,000</b>

Total Project Expense (break down matching share totals from block three)					
	Grant Share (\$ 40,000)	Match (40,000)		TOTAL	
		Dollars	In-Kind		
4	<b>Personnel / Labor:</b>	\$0	\$0	\$4,000	<b>\$4,000</b>
	<b>Operating:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Contractual Services:</b>	\$40,000	\$36,000	\$0	<b>\$76,000</b>
	<b>Equipment:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>TOTAL:</b>	<b>\$40,000</b>	<b>\$36,000</b>	<b>\$4,000</b>	<b>\$80,000</b>



5	<b>Project Summary (check all that apply and answer related questions)</b>			
	Is this project identified through a CWPP?		X Yes	<input type="checkbox"/> No
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)?		X Yes	<input type="checkbox"/> No
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? X Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		X Yes	<input type="checkbox"/> No
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		X Yes	<input type="checkbox"/> No
Number of acres to be treated:		36	Estimated cost/acre:	\$2222
List the communities directly affected by this project:			Button Rock Dam Watershed, Lyons fire District	



## Project Area Description

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment & Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters**

- 6 The proposed project is located adjacent to Longmont Dam Road along the North Saint Vrain Creek, bordering Button Rock Dam and 16,000 acre foot Ralph Price Reservoir, within the City of Longmont's and Town of Lyons' primary mountain watershed and winter raw water supply. The project land is solely owned by the City of Longmont, and adjacent to USFS, private, and nearby Boulder County Open Space. This watershed area is listed as high value forest within the CSFS Statewide Forest Assessment. This project will incorporate creating a shaded fuelbreak for 3 miles within 36 acres of ponderosa pine and juniper tree forest located along the dam and reservoir access road. This thinning will immediately reduce the risk of crown fire spreading across this roadway. This forested area has predominately ponderosa pine fuels located underneath and along side an overhead utility line for power and communication cables.

## Scientific Foundation/Practice Standards

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**Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters**

- 7 This project is an integral part of the overall Button Rock Dam, landscape wide, forest restoration program. The proposed fuelbreak is bordered by a previously thinned forest area. This area has the ability to be effectively fuels mitigated along the roadway with complete removal of the heavy fuels and slash. The proposed fuelbreak, will provide a reduced forest canopy transition between the North Saint Vrain Creek and severe rocky slopes on either side of the road. The removal of new timber growth under the utility line, with the retention of several older growth trees which have grown above the lines will create a shaded mosaic, will encourage native ground cover vegetation growth, will increase water yield, and improve the ability to gain control of catastrophic wildfire which may encroach from either side of the fuelbreak. Reference materials used for this prescription includes the Button Rock Forest Stewardship Plan (CWPP) and the CSFS Fuelbreak Guidelines for Forested Subdivisions and Communities.

## Risk Reduction

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

- 8 Ralph Price Reservoir is adjacent to the proposed fuelbreak. This thinning, when combined with the ongoing forest restoration and mitigation efforts within the watershed, will lessen the potential for catastrophic spread of wildfires. This in turn will reduce the potential for fire created soils erosion, timber debris and uncontrolled storm runoff. Wildfire debris moving to the reservoir has the potential to damage the dam outlet, water pipelines and a small hydro electric facility. Wildfire initiated devastating effects within the watershed and reservoir would reduce the municipal raw water available for the communities involved (90,000 residents) by approximately one-third of supply. This fuelbreak will assist potential wildfire firefighting efforts by providing a control point to stop fires moving across the roadway and creek, and to also provide an improved escape route for area residents and firefighters.



9	<p align="center"><b>Scope of Work/Project Timeline</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
	<p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> <p>Contracted forestry mitigation firms will use chainsaws, chippers, skidders and heavy trucks to cut down, reduce and haul off the thinned forest materials at a cost of \$76,000. Trees will be thinned to a greatly opened canopy between the creek and roadway, then to a sparsely residual older growth shaded fuelbreak along the uphill side of the road approximately 150 feet out from the roadway. Some trees will require advanced tree feeling skills and specialized equipment due to proximity of overhead utility lines, thus increasing typical thinning costs. Fuelwood resulting from the project will be hauled to the local free public collection area. The city of Longmont will provide project administration and oversight at a cost of \$4,000 in-kind labor.</p> <p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 character</b></p> <ul style="list-style-type: none"> <li>- March - June 2013: Identify and mark area boundary and trees for removal.</li> <li>- July 2013: Prepare contract renewal with city awards timber mitigation contractor.</li> <li>- October 2013-December 2013: Complete fuelbreak mitigation efforts along 3 mile area.</li> </ul>
10	<p align="center"><b>Collaboration</b></p> <p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>The City of Longmont Public Works 2013 budget will include \$40,000 funding to support it's share of the project goals including contract costs, city labor, and management. Local area private residents will help with controlling small log removal expense by collecting firewood from the watershed wood drop off site. This project will compliment the proposed USFS St. Vrain Fuels Project on adjacent national forest and coincides with scheduled fuels mitigation on adjacent Boulder County Hall and Riverside Ranches Open Space Areas. This project will address mitigation concerns within the landscape wide Saint Vrain Wildfire/Watershed Stakeholders Assessment process, and will meet standards of CSFS CWP2.</p>
11	<p align="center"><b>Project Longevity/Maintenance</b></p> <p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>This project will provide reduction in the potential spread of crown fires accross the roadway leading to the water supply. Longmont will maintain the achieved results with annual maintenance activities of controlling new timber growth within the fuelbreak and continuing to thin adjacent forest. Longmont is committed to the long term care of the Button Rock Dam watershed. A 20 year forest stewardship document (CWPP) was completed and implemented in 2003 setting standards to achieve and maintain forest health.</p>



## Powerline Fuelbreak

Lat 40 13 19

Lon 105 22 93

4 inches = 1 mile

Longmont Dam Road





2011 SFA+CPG - 2012 Fuels Mit. Grant Program

Applicant	Project	Grant	Match	Acres	Grant/acre	Notes	Positive	Negative
COB OSMP	Bison Drive	\$35,000	\$40,700	75	\$466.67	Shaded fuel break that ties to treatment on both ends, two RMFD projects proposed nearby	Turn-key with history of success and quality projects, priority in county CWPP, been planning this a long time, surrounded by private/ag-ta, Low cost/acre, good maintenance, would be done quickly	None
RMFD	Flagstaff Road North Fuel Break	\$21,516	\$21,516	25	\$860.64	roadside fuel break, would tie into OSMP project	Haven't applied for funding in 9 years. Good project/match/timeline, priority in county CWPP	Map could use some improvement/clarification
RMFD	Town of Eldorado Springs Aqueduct & Pika Road Fuel Break	\$57,376	\$57,376	49	\$1,170.94	I told them to combine projects into less apps	Haven't applied for funding in 9 years. Good projects/match/timeline, ties to two other potential projects	Map could use some improvement/clarification, very high cost/acre
4 Mile	Lower 4-mile D spaces	\$100,000	\$100,000	200	\$500.00	122 D-spaces outside of burn area, CSFS would require surface fuels treatment	All work in Hazard Ignition Zone	tough to accomplish with significant landowner involvement, some work near riparian, CSFS involvement very high
WBCHFI	Western Boulder County Healthy Forest Initiative	\$45,000	\$45,000	60	\$750.00	two projects, but Cal-Wood will be funded through another grant	Project identified in Seven Hills would ensure the community is fully mitigated, project ties to many past treatments on adjacent lands	Calwood will be funded through currently existing grant, Sunshine will be a difficult project that hasn't been fully thought out
Lyons	Lyons FPD 2012 (4 communities)	\$55,500	\$55,500	74	\$750.00	CWPP's priority roadside ingress/egress projects	There is growing momentum in the FD for fuels treatment, the FD could use some seed money to further establish the program as they have never received a large fuels grant	skinny fuel breaks as first step, application written too long (mistook character max as word max)
Buttonrock (Longmont)	Powerline Fuelbreak	\$40,000	\$40,000	36	\$1,111.11	3 miles (50' on each side of power line)	Important watershed project that mitigates their greatest threat	high cost per acre, this project seems like a good HB1199 project
Boulder Mtn	Boulder Mtn Mit Project (4 communities)	\$30,000	\$30,000	40	\$750.00	CWPP's priority roadside ingress/egress projects	BMFD has a long history with lots of CSFS grant projects	didn't fill out two sections of app, no map, FD running out of large projects and is now just filling in gaps
BoCo POS	Heil PA5 & PA7	\$24,500	\$375,500	266	\$92.11	mixed with HB 1199	Boulder County is doing true landscape scale work at Heil	already funded through other grants, messy money/reporting, will be done regardless





# 2012 FRFTP Fuels Mitigation Grant Program (2011 SFA & CPG)

#1

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	BO
County:	Boulder
Date:	2/15/12
Dollar Amount Requested:	\$ 0 35,000
Matching Share:	\$ 0 40,700

Applicant Information	
<b>Name of Project:</b>	Bison Drive
<b>Applicant:</b>	City of Boulder Open Space and Mountain Parks
<b>Contact Person:</b>	Chris Wanner
<b>Address:</b>	66 S. Cherryvale Rd.
<b>City/Zip Code:</b>	Boulder, 80303
<b>Phone (Work/Cell):</b>	720-564-2045
<b>Email:</b>	wannerc@bouldercolorado.gov
<b>Fax:</b>	720-564-2095

Community-at-Risk Information	
<b>Community Name:</b>	Upper Flagstaff, Pine Needle Notch/Bison Dr
<b>County:</b>	Boulder
<b>Name of CWPP</b>	Boulder County CWPP
<b>Location to obtain/review</b>	CSFS Boulder District

Grant Contributors (Matching Share)							
(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.							
<b>Contributors:</b> (Please specify)	City of Boulder						<b>TOTAL</b>
<b>Dollars (Hard Match):</b>	\$35,000	\$0	\$0	\$0	\$0	\$0	<b>\$35,000</b>
<b>In-Kind (Soft Match):</b>	\$5,700	\$0	\$0	\$0	\$0	\$0	<b>\$5,700</b>
<b>TOTAL:</b>	<b>\$40,700</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$40,700</b>

Total Project Expense (break down matching share totals from block three)				
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
		Dollars	In-Kind	
<b>Personnel / Labor:</b>	\$35,000	\$35,000	\$5,700	<b>\$75,700</b>
<b>Operating:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Contractual Services:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Equipment:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>TOTAL:</b>	<b>\$35,000</b>	<b>\$35,000</b>	<b>\$5,700</b>	<b>\$75,700</b>



5	<b>Project Summary</b> (check all that apply and answer related questions)			
	Is this project identified through a CWPP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<b>Project Objectives</b> (check all that apply)			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Number of acres to be treated:		75	Estimated cost/acre:	\$1000
List the communities directly affected by this project:			Upper Flagstaff, Pine Needle Notch/Bison Dr	



## Project Area Description

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment & Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters**

The Bison Drive project area is located south of Flagstaff Road approximately 4.5 miles up Flagstaff from Baseline Rd. The project is on an island of City of Boulder Open Space and Mountain Parks property that is surrounded by private properties in the Pine Needle Notch and Flagstaff Rd neighborhoods. The area is at about 7300 feet in elevation and is dominated by stands of ponderosa pine and smaller patches of a ponderosa-Douglas-fir mix. Many of the grassy openings in this area have become dense with Douglas-fir regeneration. Many of the trees have also been heavily infested with dwarf mistletoe.

The location of this project makes it an ideal landscape scale fuel break. The thinning will follow a north-south running ridge between two clusters of private property and houses, and will connect two roads that could be used as fuel breaks in the event of a wildfire. Fuels mapping done in the Boulder County CWPP has identified this area as having a high to severe potential wildfire intensity index and the fuels and topography are very similar to the nearby Walker Ranch area that burned in 2001. The area also falls into the high or very high category for all the value criteria outlined in the Colorado Statewide Forest Resource Assessment and in the highest category on the aggregate map.

In addition to the wildfire mitigation benefits, this area would also benefit ecologically from thinning. Removing a large proportion of the trees will help restore large grassland patches and improve the habitat for both vegetation and wildlife. This area has regular use by wild turkey, forest raptors, elk, mountain lion, and numerous other forest species.

## Scientific Foundation/Practice Standards

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters**

All forest management projects conducted on City lands are overseen by OSMP's forest ecologist and designed to address the goals and objectives of the City's Forest Ecosystem Management Plan (FEMP). The FEMP was adopted by the City in 1999 and outlines the historic range of variability in Boulder's forests and identifies techniques and treatments for improving the health of City forests and decreasing the risk of wildfire in the areas surrounding Boulder. The FEMP document was developed by staff and private forestry consultants, and peer reviewed by local researchers and scientists. The Bison Dr project was also identified in the recently completed Boulder County CWPP. This planning process included extensive public input, fire modeling, and expert input. The Bison Dr project falls in the top priority treatment area in the County CWPP.

## Risk Reduction

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

This project is located adjacent to two communities in the Flagstaff Road area and has a potential for high fire intensity and high burn hazard. The project is located along a north/south ridgeline between two communities and is designed as a landscape scale fuel break. Removing a large portion of small diameter trees, ladder fuels, and creating a less contiguous canopy would help control a wildfire in the area. The project will also clear an access road that could be used by firefighters in a wildfire event or even as a secondary egress for the Upper Flagstaff and Pine Needle neighborhoods.



9	<p align="center"><b>Scope of Work/Project Timeline</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
	<p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> <p>All of the work planned for this project will be completed "in-house" by City of Boulder seasonal and permanent staff. The funds requested will pay for a portion of the seasonal crew that will be implementing the project. This crew will be responsible for cutting, chipping, skidding and hauling all the trees cut as part of this project. The \$35,000 hard match is funds allocated in the 2012 City of Boulder OSMP budget to fund the OSMP seasonal forest crew.</p> <p>In addition to the hard match, the in-kind match will be met with time spent by the OSMP Forest Ecologist on the project. This time will include project layout, marking, field work, crew oversight, and general coordination. The in-kind match was estimated at 16 hours per week for the duration of the project (approx. 3 months). Additional costs for equipment and supplies will be covered as part of the OSMP operating budget.</p>
	<p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 characters</b></p> <p>Project layout, planning, and marking will begin in early February and will likely take 3 to 4 weeks. Cutting will begin in mid to late April with project completion anticipated in July of 2012. All aspects of the project including cutting, chipping, skidding and hauling will be complete by the end of the year. An end-of-year report will outline the accomplishments of the project, final stand conditions and the project goals that were met.</p>
10	<p align="center"><b>Collaboration</b></p>
	<p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>All of the work for this project will be completed by OSMP staff with some collaboration with the City fire department. OSMP works closely with City Fire on many forest projects and the Fire department provides staff for project implementation. Fire staff is not fully dedicated to this project but they will provide a number of work days. City employees and equipment will be used for all cutting, skidding, chipping, and hauling.</p> <p>There is also potential to work with the local fire protection district, Rocky Mountain Fire, in this area. City staff has begun discussing future projects in the Bison Dr area with Rocky Mtn. Fire that will span both city lands and adjacent private lands.</p>
11	<p align="center"><b>Project Longevity/Maintenance</b></p>
	<p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>Long-term maintenance will include monitoring and overstory inventories conducted by the OSMP forest ecologist. An inventory following the thinning project will measure the success of the treatment and, in some cases, additional thinning may be added to maintain desired conditions. Forested areas will be monitored on a ten year cycle to track changes in forest conditions and the effectiveness of previous treatments. All on-going forest work will be included in long-term OSMP workplans.</p>









**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	
County:	
Date:	
Dollar Amount Requested:	\$ 0
Matching Share:	\$ 0

1	Applicant Information	
	<b>Name of Project:</b>	Heil Valley Ranch 2012 Forest Restoration/Fuels Reduction Project: PA5 and PA 7
	<b>Applicant:</b>	Boulder County (Boulder County Parks and Open Space "BCPOS")
	<b>Contact Person:</b>	Chad Julian
	<b>Address:</b>	5201 St. Vrain Road
	<b>City/Zip Code:</b>	Longmont, Co, 80503
	<b>Phone (Work/Cell):</b>	303-678-6202
	<b>Email:</b>	cjulian@bouldercounty.org
	<b>Fax:</b>	303-678-6179

2	Community-at-Risk Information	
	<b>Community Name:</b>	Lyons & Lefthand Canyon
	<b>County:</b>	Boulder
	<b>Name of CWPP</b>	Lefthand FPD CWPP & Lyons FPD CWPP/Boulder County CWPP
	<b>Location to obtain/review</b>	Left Hand Fire Protection District/Boulder County Land Use

3	Grant Contributors (Matching Share)							
	<small>(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.</small>							
	<b>Contributors: (Please specify)</b>	BCPOS	CSFS (HB 1199)	Boulder County Youth Corps				<b>TOTAL</b>
	<b>Dollars (Hard Match):</b>	\$115,500	\$200,000	30,000	\$0	\$0	\$0	<b>\$345,500</b>
	<b>In-Kind (Soft Match):</b>	30,000	\$0	\$0	\$0	\$0	\$0	<b>\$30,000</b>
	<b>TOTAL:</b>	<b>\$145,500</b>	<b>\$200,000</b>	<b>\$30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$375,500</b>

Total Project Expense (break down matching share totals from block three)					
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL	
		Dollars	In-Kind		
4	<b>Personnel / Labor:</b>	\$0	\$30,000	\$30,000	<b>\$60,000</b>
	<b>Operating:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Contractual Services:</b>	\$24,500	\$315,500	\$0	<b>\$340,000</b>
	<b>Equipment:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>TOTAL:</b>	<b>\$24,500</b>	<b>\$345,500</b>	<b>\$30,000</b>	<b>\$400,000</b>



5	<b>Project Summary (check all that apply and answer related questions)</b>			
	Is this project identified through a CWPP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Number of acres to be treated:		266	Estimated cost/acre:	\$1,500
List the communities directly affected by this project:			4 incorporated plus 62 subdivisions	



## Project Area Description

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment & Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters**

6 This proposed project will be completed on Heil Valley Ranch, a 6,800-acre open space property owned by Boulder County, that is located north of Lefthand Canyon at T2N, Range 70 West, at an elevation of 6000 to 6500 ft., adjacent to (3) private subdivisions to the east, including approximately 112 homes. The property is a flagship property for Boulder County's open space program, and includes recreational trails for biking and hiking and provides important ecological habitat closure areas. Due to size of this property, BCPOS has been phasing thinning projects. BCPOS completed 160 acres of thinning at Heil in 2007 with the assistance of a WUI grant. In 2011 BCPOS completed a 254-acre thinning project on Heil with assistance from a 2009 HB1199 grant and a SFA grant. For 2012, BCPOS is continuing to focus our forestry operations on Heil. This proposed project includes thinning over 266 acres within Project Areas 5 and 7 using funds from HB1199, funds from a FRFTP grant, Boulder County Youth Corps and matching funds from Boulder County. The proposed treatment would involve additional work in units that were thinned between 2000-2004. This second entry is needed to further reduce tree density and meet ponderosa pine forest restoration goals. This area has been identified in the Colorado Statewide Forest Resource Assessment (2010) and was placed in the highest or second highest categories for all 3 National Themes for priority landscapes and emphasis areas for Colorado.

## Scientific Foundation/Practice Standards

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters**

7 The area is located within the priority area for Forest Restoration as highlighted in the Front Range Fuels Treatment Partnership Recommendations. BCPOS is following restoration guidelines from the Colorado Forest Restoration Institute and GTR's from the Rocky Mtn. Research Station. We have verified historical conditions by spatially locating pre-settlement trees on the property as well as referencing historical photos from 1911. We have completed an inventory of the forested stands. Currently for the project area proposed for this the FRFTP grant: the average basal area is 70 square feet/acre; the average diameter is 10.8 inches; the average canopy cover is 52%; the average age is 97 ybp. The thinning that occurred between 2000-2004 only thinned small diameter fuels and did not restore the clumps and the openings. By using historical data and current data, we find that the guidelines for ponderosa pine forest restoration apply at this site.

## Risk Reduction

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

8 A Boulder County wildfire takes place every 4 years. The severity of wildfire is critical; 25-50 % of property severely damaged and potential shutdown of facilities for at least 2 weeks. Our county has the largest amount of developed land in the WUI of any county in Colorado and ranks 10<sup>th</sup> among all western counties. Frequent fires and a large, at-risk population require effective wildfire mitigation efforts. There are 5,182 homes most at risk from wildfire in our mountain communities. The 2010 Fourmile Fire demonstrated that thousands of additional homes, not just those in the highest hazard areas, are also at risk. Our county's fires place infrastructure, citizens, and our firefighters at great risk. This grant project will provide critical thinning needed to help prevent these fires in the Boulder County foothills.



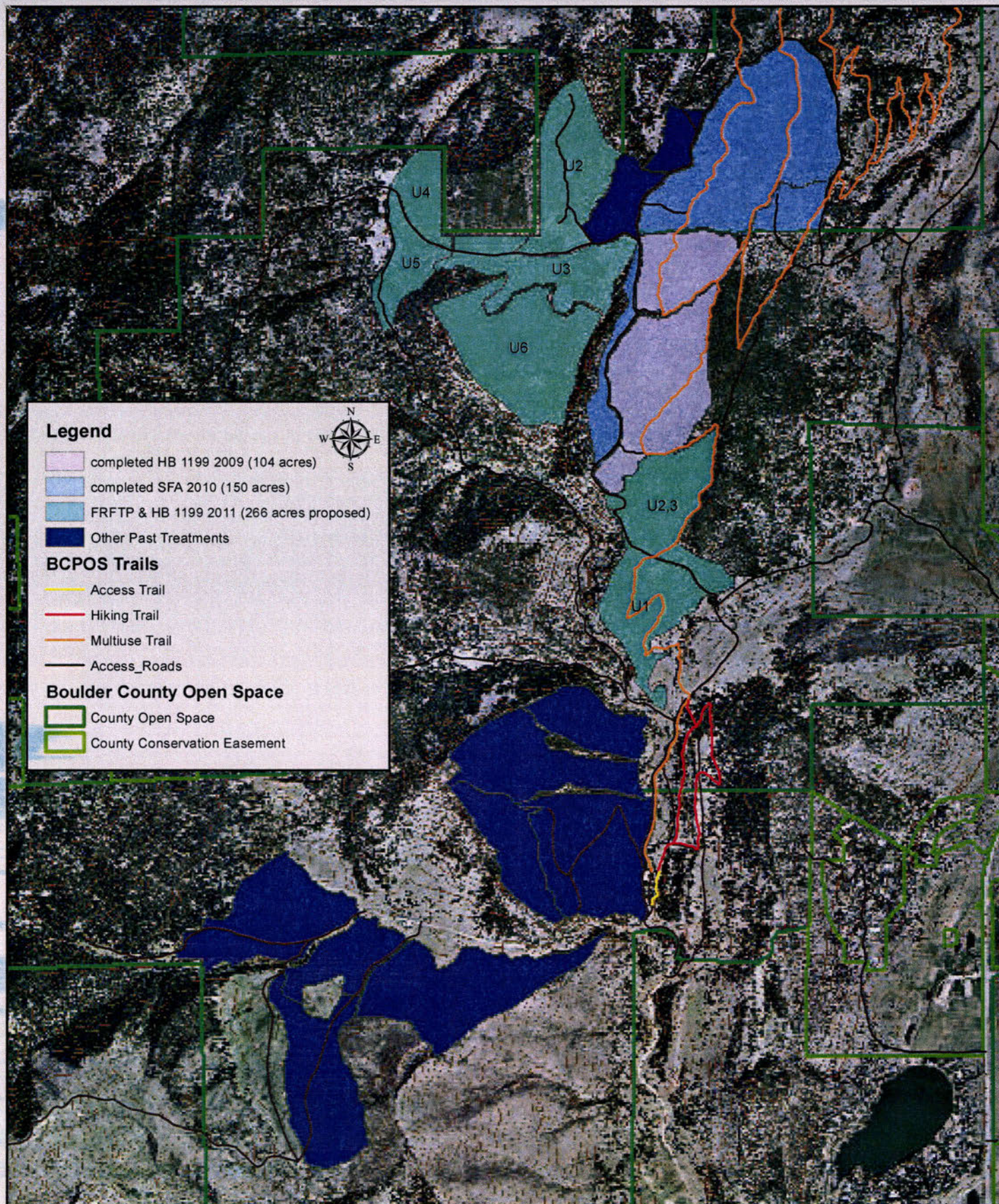
	<p align="center"><b>Scope of Work/Project Timeline</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
<p align="center">9</p>	<p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> <p>In developing the restoration proposal for Heil, emphasis was placed on forest restoration goals of BCPOS and the fire mitigation needs of the Lefthand Fire Protection District. The scientific foundation for this project is based on forest restoration and fuel reduction technologies. Grant funds will be used to pay contractors and seasonal staff to perform thinning operations to reduce wildland fire behavior and intensity; the contract will be managed by BCPOS staff; and use Boulder County Youth Corps. The dominant forest type is ponderosa pine which is overstocked and the canopy is highly dense with unmarketable whip and pole stock. The majority of trees are green and living with overall poor to good tree vigor.</p> <p><u>Prescription:</u></p> <ul style="list-style-type: none"> <li>* Reducing basal area/acre of ponderosa pine &lt; 18" dbh to 30-50 sq. ft/acre.</li> <li>* Retain all trees &gt; 18" dbh or that exhibit characteristics of pre-settlement trees.</li> <li>* Retain Rocky Mountain juniper and Douglas-fir where it is not a ladder fuel for ponderosa pine.</li> <li>* Maintain a canopy cover &lt; 30%.</li> <li>* Prevent ponderosa pine encroachment in designated meadows.</li> <li>* Maintain or create 50-80 linear ft. of large downed logs &gt; 10" dbh.</li> <li>* Create or maintain openings of 1/4 to 2 acres in size and irregular in shape.</li> <li>* Continue to maintain wildlife cover as prescribed by wildlife staff.</li> <li>* Create groups/clumps of trees that vary in size, shape and density. These should be centered on pre-settlement trees or groups that have the most age/diameter diversity.</li> </ul> <p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 characters</b></p> <ul style="list-style-type: none"> <li>-Inventory forest stands (was completed in 2011);</li> <li>-Write forest management prescription (completed in 3/2011);</li> <li>-Spring 2012 - Write bid specifications;</li> <li>-Late Spring - Award Contract and initiate project.</li> </ul>
<p align="center">10</p>	<p align="center"><b>Collaboration</b></p> <p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>BCPOS works with the Boulder County Ecosystem Cooperative, and the Boulder County Wildfire Mitigation Group on its thinning projects; these groups include representatives from USFS, CSFS, City of Boulder, Boulder County Land Use Department, and other agencies. BCPOS will use the Boulder County Youth Corps and volunteers for vegetation restoration on this site. Boulder County's Forestry Education and Outreach Coordinator will use this area to showcase as a successful demonstration and education site to other forestry operators. The CSFS is a partner through the existing HB1199 grant, and County Land Use (Boulder County Wildfire Mitigation Group) will use this site as a demonstration area to showcase our work. BCPOS also works with the Boulder County Sheriff Emergency Services Division for our prescription burns. BCPOS also participated with the Colorado Forest Restoration Institute in field assessments on this project.</p>
<p align="center">11</p>	<p align="center"><b>Project Longevity/Maintenance</b></p> <p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>This project is part of a phased project, and will be maintained by Boulder County Parks and Open Space. Post treatment monitoring: first year after project completion and every fifth year from that point. All resources (plants, wildlife) are monitored by BCPOS staff and maintenance will be funded by BCPOS. BCPOS has 10 years of monitoring history/results for comparison. Maintenance: prescriptions burns in 3-5 years; annual weed spraying.</p>







# Heil Valley Ranch Forestry Treatments



0 800 1,600 3,200 4,800 6,400 Feet

1 inch = 0.38 miles



**DISCLAIMER:**  
This map is for illustrative purposes only, and is not suitable for parcel specific decision making. The areas depicted here are approximate. More site specific studies may be required to draw accurate conclusions.

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cartographer; N. Stremel 2/2012





**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

#2

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	BD
County:	BOULDER
Date:	2/15/12
Dollar Amount Requested:	21,516.00
Matching Share:	21,516.00

1	Applicant Information	
	Name of Project:	Flagstaff Road North Fuel Break
	Applicant:	Rocky Mountain Fire Protection District
	Contact Person:	Quinn MacLeod
	Address:	1803 S. Foothills Hwy #120
	City/Zip Code:	Boulder, CO 80303
	Phone (Work/Cell):	303-494-3735
	Email:	qmacleod@rockymountainfire.org
	Fax:	303-499-8973

2	Community-at-Risk Information	
	Community Name:	Walker Ranch Area, Flagstaff Mountain
	County:	Boulder
	Name of CWPP	Rocky Mountain Fire District
	Location to obtain/review	csfs.colostate.edu/pages/documents/RockyMountainFPDCWPP_2010.pdf

Grant Contributors (Matching Share)							
(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.							
Contributors: (Please specify)	Rocky Mountain Fire District						TOTAL
Dollars (Hard Match):	35,970.00	\$0	\$0	\$0	\$0	\$0	35,970.00
In-Kind (Soft Match):	7062.00	\$0	\$0	\$0	\$0	\$0	7062.00
TOTAL:	43,032.00	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	43,032.00

Total Project Expense (break down matching share totals from block three)				
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
		Dollars	In-Kind	
Personnel / Labor:	17,985.00	17,985.00	\$0	35,970.00
Operating:	643.50	\$0	643.50	1287.00
Travel:	\$0	\$0	\$0	\$ 0
Contractual Services:	\$0	\$0	\$0	\$ 0
Equipment:	2887.50	\$0	2887.50	5775.00
Indirect Costs:	\$0	\$0	\$0	\$ 0
TOTAL:	21,516.00	17,985.00	3531.00	43,032.00



5	<b>Project Summary (check all that apply and answer related questions)</b>			
	Is this project identified through a CWPP?		X Yes	<input type="checkbox"/> No
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)?		X Yes	<input type="checkbox"/> No
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? X Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		X Yes	<input type="checkbox"/> No
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		X Yes	<input type="checkbox"/> No
Number of acres to be treated:		25	Estimated cost/acre:	1721.28
List the communities directly affected by this project:			Walker Ranch Area, Flagstaff Mountain	



	<p align="center"><b>Project Area Description</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
6	<p><b>Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment &amp; Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters</b></p> <p>Taken from the Rocky Mountain Fire District CWPP:  <b>Flagstaff Road Treatment (Approximately 115 acres). Priority level High. Note: this phase will treat 25 acres.</b></p> <p>This project focuses on reducing the forest fuels along Flagstaff Road from <u>Bison Drive</u> to mile marker 6. This project will tie into the Boulder OSMP Flagstaff Road project and the future Boulder County Meyers Gulch / Walker Ranch Open Space project.</p> <p>Existing home defensible space will be incorporated and extended to help create this fuel break (land owners have previously asked for mitigation services from Rocky Mountain Fire District (RMF)).</p> <p>Thinning to reduce ladder fuels and interrupt the crown continuity of fuels for at least <u>100 feet</u> on both sides of the road.</p> <p>Land ownership is mixed. City of Boulder Open Space, RMF station 4 and private land owners.</p> <p>Forest fuels include mixed conifer, several species of shrubs and deciduous trees.</p> <p>The project is located in the urban interface "red zone" as determined by the Colorado State Forest Action Plan.</p>
7	<p align="center"><b>Scientific Foundation/Practice Standards</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters</b></p> <p>Taken from the Rocky Mountain Fire District (RMF) CWPP:          The minimum recommended fuel break width is usually 200 feet. As spread rate and intensity increases with slope angle, the size of the fuel break should also be increased, with an emphasis on the downhill side of the project. The formulas for slope angles of 30% and greater are as follows: below distance = 100' + (1.5 x slope %); above distance = 100' – slope %. Fuel breaks that pass through hazardous topographic features should have these distances increased by 50%. Since fuel breaks can have an undesirable effect on the aesthetics of the area, crown separation should be emphasized over stand density levels. In other words, isolating groupings rather than cutting for precise stem spacing will help to mitigate the visual impact of the fuel break.</p> <p>In addition the Colorado State Forest Service (CSFS), Landowner Guide to Thinning principles has been referenced.</p>
8	<p align="center"><b>Risk Reduction</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>



**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

Home site mitigation has occurred along Flagstaff Road. This proposed fuel break will help to serve as a firefighting control line in the event a wildfire moves from the open space lands located to the west and down to Boulder Canyon towards the north. This project would help to lessen the fire behavior intensity. The lower intensity will provide opportunity for firefighting resources to more safely conduct fire suppression operations.

During fire events this fuel break will serve to increase the need time to safely evacuate the public from this area. To note: the Flagstaff area sees a large recreational user population during many months of the year.

In addition this project will serve as a barrier of fire spread from a structure fire. Given the extended response time of full-time fire crews up to the Flagstaff area, a potential exists for a well involved structure fire to escape its origin and spread into the adjoining vegetation.

This project can successfully meet the objectives even with the challenges presented by multi-ownership lands.



	<p align="center"><b>Scope of Work/Project Timeline</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
9	<p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> <p>This fuel break will be an approximate length of 5000 feet along Flagstaff Road. Project width will vary depending on vegetation density.</p> <p>The projects will utilize a crew of Rocky Mountain Fire District employees. Mechanical liming and thinning utilizing chainsaws will be the primary means of vegetation removal. Weed whackers with a brush blade will be used to remove the brush component.</p> <p>Slash will be removed from the area by crew personnel. Slash will then be chipped utilizing a chipper owned by Rocky Mountain Fire District. Chipped debris will be removed from the area. A small amount of slash maybe left on-site. In areas where the chipper can be positioned on-site, the chips will be scattered. This project has good access and should lend itself to good positioning of the chipper.</p> <p>Securing this grant will allow RMF to retain its seasonal fire crew beyond the normal budgeted period. This allows for the timely completion of these projects.</p> <p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 characters</b></p> <p>Milestone 1; 3 work days to mark trees and evaluate access.</p> <p>Milestone 2; 20 work days to have the project limbed and thinned, material on the ground, slash chipped and home sites defensible space enhanced in zones 1 &amp; 2.</p> <p>Milestone 3; 10 additional work days of area clean-up. (project completion)</p>
10	<p align="center"><b>Collaboration</b></p> <p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>The Rocky Mountain Fire District 2007 (updated in 2010) Community Wildfire Protection Plan was completed by Anchor Point Group LLC. RMF has a great working relationship with the public in general.</p> <p>The Rocky Mountain Fire District Wildland Division is primarily responsible for the planning, implementation and completion of this project.</p>
11	<p align="center"><b>Project Longevity/Maintenance</b></p> <p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>Long term benefits are primarily to reduce the risk of catastrophic wildfire and to promote forest health.</p> <p>The Rocky Mountain Fire District will provide the needed future maintenance.</p> <p>RMF routinely budgets for wildland mitigation funds annually. These funds are directly spent on maintaining past projects.</p>



	Prescribed fire will be considered in partnership with the Boulder County Open Space and the City of Boulder Open Space.
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39°58'51.93" N 105°19'34.05" W elev 7657 ft

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**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

TIE  
#2

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	BD
County:	Boulder
Date:	2/15/12
Dollar Amount Requested:	57,376.00
Matching Share:	57,376.00

Applicant Information	
<b>Name of Project:</b>	Town of Eldorado Springs Aqueduct Fuel Break & Pika Road Fuel Break
<b>Applicant:</b>	Rocky Mountain Fire Protection District
<b>Contact Person:</b>	Quinn MacLeod
<b>Address:</b>	1803 S. Foothills Hwy #120
<b>City/Zip Code:</b>	Boulder, CO 80303
<b>Phone (Work/Cell):</b>	303-494-3735
<b>Email:</b>	qmacleod@rockymountainfire.org
<b>Fax:</b>	303-499-8973

Community-at-Risk Information	
<b>Community Name:</b>	Town of Eldorado Springs and Pine Needle
<b>County:</b>	Boulder
<b>Name of CWPP</b>	Rocky Mountain Fire District
<b>Location to obtain/review</b>	csfs.colostate.edu/pages/documents/RockyMountainFPDCWPP_2010.pdf

Grant Contributors (Matching Share)							
(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.							
<b>Contributors:</b> (Please specify)	Rocky Mountain Fire District						<b>TOTAL</b>
<b>Dollars (Hard Match):</b>	95,920.00	\$0	\$0	\$0	\$0	\$0	<b>95,920.00</b>
<b>In-Kind (Soft Match):</b>	18,832.00	\$0	\$0	\$0	\$0	\$0	<b>18,832.00</b>
<b>TOTAL:</b>	<b>114,752.00</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>114,752.00</b>

Total Project Expense (break down matching share totals from block three)				
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
		Dollars	In-Kind	
<b>Personnel / Labor:</b>	47,960.00	47,960.00		<b>95,920.00</b>
<b>Operating:</b>	1716.00	\$0	1716.00	<b>3432.00</b>
<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Contractual Services:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Equipment:</b>	7700.00	\$0	7700.00	<b>15,400.00</b>
<b>Indirect Costs:</b>	\$0	\$0		<b>\$ 0</b>
<b>TOTAL:</b>	<b>57,376.00</b>	<b>47,960.00</b>	<b>9416.00</b>	<b>114,752.00</b>



5	<b>Project Summary (check all that apply and answer related questions)</b>			
	Is this project identified through a CWPP?		X Yes	<input type="checkbox"/> No
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)?		X Yes	<input type="checkbox"/> No
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? X Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		X Yes	<input type="checkbox"/> No
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		X Yes	<input type="checkbox"/> No
Number of acres to be treated:		49 acres	Estimated cost/acre:	2341.88
List the communities directly affected by this project:			Town of Eldorado Springs Marshall Eldorado Springs Valley	



## Project Area Description

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment & Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters**

Taken from the Rocky Mountain Fire District CWPP:

21ae?

**Town of Eldorado Aqueduct Fuel Break (Approximately 11 acres plus an additional 10 to fully extend the project to the City of Boulder Lindsay project). Priority Level High**

A fuel break will be created along the aqueduct on the south side of town. It will anchor into the road on the west end and extend on the uphill side of the aqueduct to the east side of the town, then extend uphill to join into the Boulder OSMP Lindsay Property project. Existing defensible space will be incorporated and extended to help create this fuel break (which will include the few homes that sit above the aqueduct). Thinning to reduce ladder fuels and interrupt the crown continuity of fuels is recommended for at least 100 feet upslope. Where the fuel break leaves the aqueduct and turns upslope to tie in with the OSMP fuel break, it is recommended to thin back 100 feet on both sides.

Land ownership is mixed. Colorado State Parks, City of Boulder Open Space and several private land owners. A single private landowner owns the majority of the private holdings.

**Pika Road Fuel Break (Approximately 28 acres). Priority Level High**

This project begins at Flagstaff Road and extends to the Ethel Harrold Open Space Trailhead along Pika Road. This project is designed to provide a fuel break along Pika Road, while protecting the egress route from this area. This will also help to protect the homes along Cougar Drive.

Forest fuels include mixed conifer, several species of shrubs and deciduous trees.

Both projects are in the urban interface "red zone" as determined by the Colorado State Forest Action Plan.

## Scientific Foundation/Practice Standards

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters**

Taken from the Rocky Mountain Fire District (RMF) CWPP:

The minimum recommended fuel break width is usually 200 feet. As spread rate and intensity increases with slope angle, the size of the fuel break should also be increased, with an emphasis on the downhill side of the project. The formulas for slope angles of 30% and greater are as follows: below distance =  $100' + (1.5 \times \text{slope } \%)$ ; above distance =  $100' - \text{slope } \%$ . Fuel breaks that pass through hazardous topographic features should have these distances increased by 50%. Since fuel breaks can have an undesirable effect on the aesthetics of the area, crown separation should be emphasized over stand density levels. In other words, isolating groupings rather than cutting for precise stem spacing will help to mitigate the visual impact of the fuel break.

In addition the Colorado State Forest Service (CSFS), Landowner Guide to Thinning principles has been referenced.



## Risk Reduction

All information for the project must fit into the allotted character space provided below.

Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**

Currently a vegetated corridor exists between the Town of Eldorado Springs and City of Boulder Open Space lands. Reducing the fuels within this corridor will allow a wildfire approaching from the south the opportunity to lessen in fire behavior intensity. The lower intensity will provide opportunity for firefighting resources to more safely conduct fire suppression operations.

During fire events this fuel break will serve to increase the need time to safely evacuate the public from this narrow canyon area.

In addition this project will serve as a barrier of fire spread from a structure fire within the town. Given the extended response time of full-time fire crews into the town, a potential exists for a well involved structure fire to escape its origin and spread into the adjoining vegetation.

8 Reducing the vegetation close to the aqueduct will keep the debris from potentially clogging up the water way. This waterway supplies water for the Denver Water Board.

The potential loss of electrical power could be averted by this project. Power loss would affect the State Park, Town and private water bottling facility.

The economic impact to the State Park, Eldorado Community Pool and the Water Bottling Facility could be significantly lessened if the catastrophic effects of a wildfire were reduced. This project creates the barrier between open lands and the area values at risk.

The Pika Road project will help to keep fires originating in Boulder County Open Space from extending into the Pine Needle Subdivision. In addition the fuel break will help to tie individual home sites (8) some of which have already had work done. This project will also serve to enhance this road way as a public and firefighter escape route.

Both projects can successfully meet the objectives even with the challenges presented by multi-ownership lands.



## Scope of Work/Project Timeline

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters**

The Eldorado Springs fuel break will be an approximate length of 2500 feet along the aqueduct located on the south side of the Town Of Eldorado Springs. Project width will vary depending on vegetation density and feasibility of connecting to the City of Boulder, Lindsay project.

This project lies on steep slopes and access is difficult in areas due to the proximity of the aqueduct. Slash removal will become more time consuming and labor intensive. This is reflected in the timelines below.

The Pika Road fuel break will be approximately 3200 feet in length. Project width will vary depending on vegetation density.

The projects will utilize a crew of Rocky Mountain Fire District employees. Mechanical liming and thinning utilizing chainsaws will be the primary means of vegetation removal. Weed whackers with a brush blade will be used to remove the brush component.

9 Slash will be removed from the area by crew personnel. Slash will then be chipped utilizing a chipper owned by Rocky Mountain Fire District. Chipped debris will be removed from the area. A small amount of slash maybe left on-site. In areas where the chipper can be positioned on-site, the chips will be scattered.

Securing this grant will allow RMF to retain its seasonal fire crew beyond the normal budgeted period. This allows for the timely completion of these projects.

**Provide a timeline for the project, including significant accomplishment milestones. 500 characters**

Milestone 1; 3 work days to mark trees and evaluate access into each area.

Milestone 2; 10 work days to have unit 1 of the Eldorado Springs (priority 1) project limbed and thinned, material on the ground.

Milestone 3; 10 additional work days dedicated to unit 1 slash removal and chipping.

Milestone 4; 10 additional work days to have unit 2 of the Eldorado Springs project limbed and thinned, material on the ground.

Milestone 5; 10 additional work days dedicated to unit 1 slash removal and chipping.

Milestone 6; 5 additional work days dedicated to creating home defensible space in zones 1 & 2.

Milestone 7; 10 additional work days of area clean-up. (project completion)

Milestone 8; 20 work days to have the Pika Road (priority 2) project limbed and thinned, material on the ground, slash chipped and home sites defensible space enhanced in zones 1 & 2.

Milestone 9; 10 additional work days of area clean-up. (project completion)

10

## Collaboration



	<p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>The Rocky Mountain Fire District 2007 (updated in 2010) Community Wildfire Protection Plan was completed by Anchor Point Group LLC. APG has been consulted on this project and will provide guidance as needed. Community meetings were held and RMF has a great working relationship with the public in general.</p> <p>The Rocky Mountain Fire District Wildland Division is primarily responsible for the planning, implementation and completion of this project.</p> <p>The Colorado State Forest Service has been contacted and asked to provide information towards the further planning of this project.</p>
11	<p style="text-align: center;"><b>Project Longevity/Maintenance</b></p> <p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>Long term benefits are primarily to reduce the risk of catastrophic wildfire and to promote forest health.</p> <p>The Rocky Mountain Fire District will provide the needed future maintenance. APG and CSFS will be consulted to more accurately figure the re-entry intervals.</p> <p>RMF routinely budgets for wildland mitigation funds annually. These funds are directly spent on maintaining past projects.</p> <p>Prescribed fire will be considered in partnership with the Town of Eldorado Springs, Eldorado State Park, Boulder County Open Space and the City of Boulder Open Space.</p>



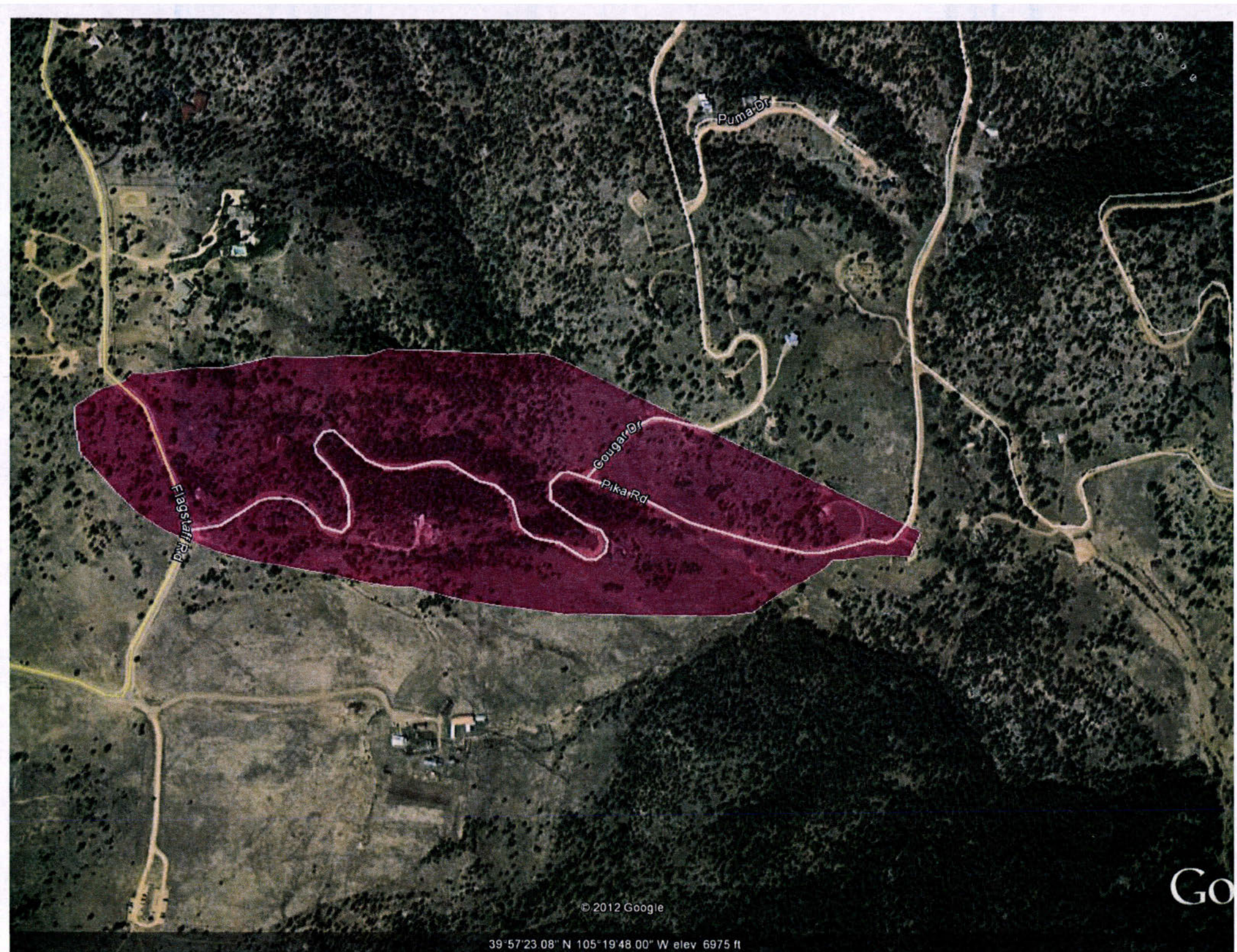


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39°55'58.09" N 105°16'29.59" W elev 5727 ft

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39°57'23.08" N 105°19'48.00" W elev 6975 ft

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**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	
County:	
Date:	
Dollar Amount Requested:	\$ 0
Matching Share:	\$ 0

1	Applicant Information	
	<b>Name of Project:</b>	Boulder Mountain Mitigation Project
	<b>Applicant:</b>	Boulder Mountain Fire Protection District
	<b>Contact Person:</b>	Steve Lynn
	<b>Address:</b>	1905 Linden Drive
	<b>City/Zip Code:</b>	Boulder, CO 80304
	<b>Phone (Work/Cell):</b>	(303) 440-0235
	<b>Email:</b>	mitigation@bouldermountainfire.org
	<b>Fax:</b>	(303) 440-5247

2	Community-at-Risk Information	
	<b>Community Name:</b>	Pine Brook Hills, Meadow Glen Forest, Carriage Hills, Deer Trail Rd
	<b>County:</b>	Boulder
	<b>Name of CWPP</b>	Boulder Mountain Community Wildfire Protection Plan
	<b>Location to obtain/review</b>	Colorado State Forest Service Boulder District Offices Longmont, Colorado

3	Grant Contributors (Matching Share)							
	<small>(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.</small>							
	<b>Contributors: (Please specify)</b>	Pine Brook Hills HOA	Meadow Glen Forest HOA	Carriage Hills HOA	Deer Trail Community			<b>TOTAL</b>
	<b>Dollars (Hard Match):</b>	\$10,000	\$10,000	\$5,000	\$5,000		\$0	<b>\$ 30,000</b>
	<b>In-Kind (Soft Match):</b>	\$10,000	\$10,000	\$5,000	\$5,000	\$0	\$0	<b>\$ 30,000</b>
	<b>TOTAL:</b>	<b>\$20,000</b>	<b>\$ 20,000</b>	<b>\$ 10,000</b>	<b>\$ 10,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>

Total Project Expense (break down matching share totals from block three)					
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL	
		Dollars	In-Kind		
4	<b>Personnel / Labor:</b>	\$30,000	\$30,000	\$0	<b>\$ 60,000</b>
	<b>Operating:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Contractual Services:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Equipment:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>TOTAL:</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>



5	<b>Project Summary (check all that apply and answer related questions)</b>			
	<b>Is this project identified through a CWPP?</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<b>Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment &amp; Strategy)?</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<b>Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<b>Project Objectives (check all that apply)</b>			
	<b>Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<b>Improving forest health conditions by restoring ecosystem function, structure and species composition.</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Number of acres to be treated:</b>		40	<b>Estimated cost/acre:</b>	\$750
<b>List the communities directly affected by this project:</b>			Pine Brook Hills, Boulder Heights, and Carriage Hills.	



	<p align="center"><b>Project Area Description</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
6	<p><b>Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment &amp; Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters</b></p> <p>Boulder Mountain Fire Protection District (BMFPD) is located in the Colorado Front Range Red Zone. The fire district contains the county's highest concentration of mountain homes in a relatively small area. In 2005, BMFPD became the first community in the CSFS-Boulder District to complete a CWPP. The CWPP gives highest priority to life safety, public egress and firefighter access. These priorities identified two urgent tasks: mitigation along highest risk egress routes and the creation of shaded fuel breaks in critical areas where a potential fire would threaten large segments of the district population. The critical areas are located within gaps in the existing system of maintained fuel breaks near high density forested regions. A majority of homes are built on steep slopes (over 57% exceed 31% slope). The WHINFOE model classifies potential fire behavior as 41% high hazard and 51% very high and extreme hazard. The fuel model types in the proposed project are open canopy ponderosa with a grass understory (FM2) and mixed conifer (FM9). The project areas' fire regime historically fell within a 0-35 year frequency with a mixture of condition class 2 and 3. The fire district has its own mitigation crew which has been pivotal in creating community support for implementation of fuels treatment and forest health projects in their WUI.</p>
7	<p align="center"><b>Scientific Foundation/Practice Standards</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters</b></p>
8	<p align="center"><b>Risk Reduction</b></p> <p align="center">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters</b></p>



	<div data-bbox="581 184 1101 224" data-label="Section-Header"> <h3>Scope of Work/Project Timeline</h3> </div> <div data-bbox="282 222 1399 273" data-label="Text"> <p>All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> </div> <div data-bbox="181 285 1481 357" data-label="Text"> <p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> </div> <div data-bbox="181 357 1484 558" data-label="Text"> <p>The communities of Pine Brook Hills, Carriage Hills and Boulder Heights have limited evacuation routes. These access routes have dense tree canopies on each side, making a dangerous evacuation during a wildfire event. The priority treatments for this project will install shaded fuel breaks at the critical egress locations in each of the communities. These treatments will also benefit as shaded fuel breaks. All new fuel breaks will tie into existing meadows and anchored to major roadways. The treatments will extend along the community access roads to the extent that the community's matching funds will cover.</p> </div> <div data-bbox="181 590 1495 827" data-label="Text"> <p>The work will be performed through a BMFPD subaward using their mitigation crew. Shaded fuel breaks will be setup by CSFS personnel using CSFS guidelines (at least 300 feet wide fuel breaks adjusted for slope and topography). In creating the fuel breaks, ladder fuels will be eliminated, retained trees will have a ten foot or greater crown spacing, and standard tree health/size/species diversity will be taken into account during project marking. The fuel breaks will have a combination of chipping done near the roadways and burn piles created in less accessible areas. The piles will be burned the following winter. The requested funds for this project will be sufficient to create 40 or more acres of shaded fuel break with an approximate width of 300 feet.</p> </div> <div data-bbox="181 858 1495 1092" data-label="Text"> <p>The priority mitigation acreage outlined in this grant will cover the highest fuels treatment risks for the communities. Fuels treatment will need to occur within the communities for multiple years to mitigate all potential fire hazards. Near the community of Boulder Heights, the USFS has identified adjacent land for potential treatment. The communities hope their efforts will assist in influencing the USFS to have treatment occur on their nearby lands and allow for additional evacuation routes to be created. The secondary evacuation routes could be created after work has occurred along the existing roads and on USFS land between the communities.</p> </div> <div data-bbox="181 1129 1466 1165" data-label="Text"> <p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 characters</b></p> </div> <div data-bbox="181 1165 1421 1297" data-label="Text"> <p>Upon grant award, a CSFS representative will work with the FD Mit Coordinator to organize community meetings, mark project areas, and finalize permissions. Tree cutting will commence in the fall of 2012 following the finalization of project setup, matching fund collection, contract negotiation, and landowner permissions. Project cutting will continue for one year from the date of award.</p> </div>
<div data-bbox="115 1562 155 1596" data-label="Text"> <p>10</p> </div>	<div data-bbox="725 1371 954 1409" data-label="Section-Header"> <h3>Collaboration</h3> </div> <div data-bbox="181 1415 1497 1524" data-label="Text"> <p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> </div> <div data-bbox="181 1524 1354 1558" data-label="Text"> <p>Participants include the BMFPD, CSFS, private landowners/HOAs, and Boulder County Land Use.</p> </div> <div data-bbox="181 1591 1489 1793" data-label="Text"> <p>The CSFS and BMFPD will hold public meetings with the affected landowners to provide information on project plans and educate landowners on the rationale behind specific details of the project. The CSFS will do a majority of the project setup with landowner coordination being done by the BMFPD. Boulder County Land Use will assist with project setup and is providing the fire department with a chipping grant. The fuels treatment labor will be completed by the BMFPD mitigation crew. The BMFPD crew will be paid through landowner/HOA funds and reimbursed through a CSFS subaward.</p> </div>
<div data-bbox="115 1814 155 1848" data-label="Text"> <p>11</p> </div>	<div data-bbox="584 1814 1094 1854" data-label="Section-Header"> <h3>Project Longevity/Maintenance</h3> </div>



**Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters**

BMFPD has a mitigation crew and a full time mitigation coordinator that are dedicated to maintaining the fuel breaks in the community and monitoring for insects and disease. BMFPD relies on funding from the local home owners associations and a \$60,000 per year subsidization from general operation funds to the mitigation services department to fund the project maintenance. The CSFS district has a record of all fuel break locations and the dates of completion. The district will review the project area within 10 years to monitor for maintenance needs.





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Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	
County:	
Date:	
Dollar Amount Requested:	\$ 0
Matching Share:	\$ 0

1	Applicant Information	
	<b>Name of Project:</b>	Western Boulder County Health Forest Initiative (WBCHFI), Grant 12-1
	<b>Applicant:</b>	Western Boulder County Health Forest Initiative
	<b>Contact Person:</b>	Brett Haberstick
	<b>Address:</b>	311 County Road 83
	<b>City/Zip Code:</b>	Boulder, Colorado 80302
	<b>Phone (Work/Cell):</b>	303-589-2179
	<b>Email:</b>	sfpd.fireground@gmail.com
	<b>Fax:</b>	

2	Community-at-Risk Information	
	<b>Community Name:</b>	Seven Hills/Lower Sunshine; Calwood/Balarat;
	<b>County:</b>	Boulder
	<b>Name of CWPP</b>	Lefthand Fire PD, Boulder Rural Fire Department, Boulder County
	<b>Location to obtain/review</b>	csfs.colostate.edu/pages/CommunityWildfireProtectionPlans.html

3	Grant Contributors (Matching Share)							
	<small>(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.</small>							
	<b>Contributors: (Please specify)</b>	Seven Hills	Calwood					<b>TOTAL</b>
	<b>Dollars (Hard Match):</b>	17,250	5,250	\$0	\$0	\$0	\$0	<b>\$22,500</b>
	<b>In-Kind (Soft Match):</b>	17,250	5,250	\$0	\$0	\$0	\$0	<b>\$22,500</b>
	<b>TOTAL:</b>	<b>\$34,500</b>	<b>\$10,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$45,000</b>

4	Total Project Expense (break down matching share totals from block three)				
		Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
			Dollars	In-Kind	
	<b>Personnel / Labor:</b>	\$35,000	\$18,000	\$20,000	<b>\$73,000</b>
	<b>Operating:</b>	\$5,000	\$2,500	\$2,500	<b>\$10,000</b>
	<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Contractual Services:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Equipment:</b>	\$5,000	\$2,000	\$0	<b>\$7,000</b>
	<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
		<b>TOTAL:</b>	<b>\$45,000</b>	<b>\$22,500</b>	<b>\$22,500</b>



5	<b>Project Summary (check all that apply and answer related questions)</b>		
	Is this project identified through a CWPP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	<b>Project Objectives (check all that apply)</b>		
	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Number of acres to be treated:		60	Estimated cost/acre: \$1,500
List the communities directly affected by this project:		Seven Hills, Lower Sunshine, Calwood/Balarat, Upper County Road 87	



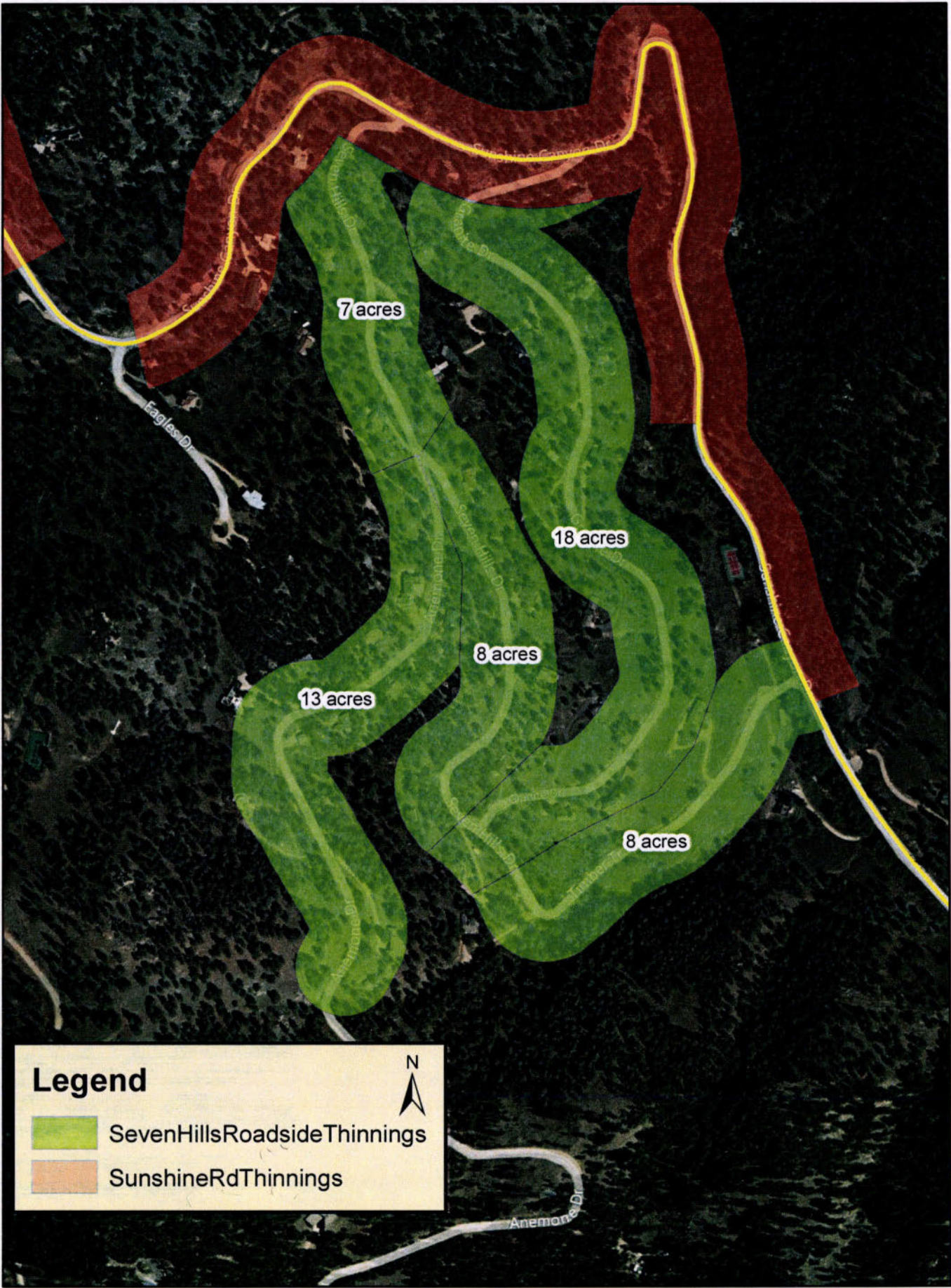
6	<p style="text-align: center;"><b>Project Area Description</b></p> <p style="text-align: center;">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment &amp; Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters</b></p> <p>The geographical area of the Western Boulder County Healthy Forest Initiative contains 70,000+ acres, 7,000 residents, four fire protection districts, a private company and an internationally recognized educational organization (Calwood). The Seven Hills and Lower Sunshine project will impact 46 acres and all homeowners along Seven Hills Drive, Timber Trail Drive, Granite Drive, and Anemone Drive. All areas treated will be privately owned land. Most private parcels are an average of 1-2 acres in size. This community has a high wildfire risk rating in the Boulder Rural CWPP and is identified in the Boulder County CWPP as an important treatment area. The proposed treatment in Calwood is a roadside fuels treatment and covers 14 acres. This is the main road into and out of Calwood, which receives thousands of school children, students and visitors annually. All acres to be treated at Calwood are privately owned by a single landowner.</p>
7	<p style="text-align: center;"><b>Scientific Foundation/Practice Standards</b></p> <p style="text-align: center;">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters</b></p> <p>Significant research and practical application has occurred over the past 15 years in the area of hazardous fuels reduction. Many examples exist to demonstrate the basic principles of reducing fuel loads, slowing fire spread or intensity, creating defensible space areas/zones and creating improved ingress/egress for firefighters and the public. Crown spacing, ladder fuel removal, and the other recommendations made as per CSFS guidelines in Service in Action Sheets 6.23, and as outlined in the publication Fuel Break Guidelines for Forester Subdivisions are the primary specifications that will be applied in this project to meet the overall desired outcome(s). The fire research institutions, firefighting agencies, independent research efforts and overall firefighting community support this scientific foundation. As a truly adaptive management paradigm, fuels reduction measures are evolving and improving as recently indicated in the Fourmile Canyon Fire Study. Only the most recent set of standards will be implemented for this project. All forestry practices will also meet CSFS guidelines and standards as per the 2010 Best Management Practices (BMP) to Protect Water Quality publication.</p>
8	<p style="text-align: center;"><b>Risk Reduction</b></p> <p style="text-align: center;">All information for the project must fit into the allotted character space provided below.          Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p> <p><b>Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters</b></p> <p>Roadside fuel breaks are intended to aid firefighter ingress/egress. Roadside fuel breaks allows firefighters to defend structures and communities more safely. It also allows for evacuations for safer evacuations to occur due to reduced fire hazard and intensity along roadways. Such roadside fuel breaks strengthen escape routes for both firefighters and the public. Reduced fire intensity along these fuel breaks can reduce the damage power lines, electrical boxes, bridge/road structures and overall community infrastructure. When combined with individual defensive space, such as is proposed for Seven Hills and Lower Sunshine area, and other fuel reduction efforts in place, these roadside fuel breaks add to the overall effectiveness and connectivity of community fuels reduction projects.</p>



9	<p align="center"><b>Scope of Work/Project Timeline</b></p> <p align="center">All information for the project must fit into the allotted character space provided below. Attachments will not be considered by the review committee. <b>Characters include letters, numbers, spaces and punctuation.</b></p>
	<p><b>Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters</b></p> <p>Work will begin as soon as a successful award is made. This will consist of project layout (boundaries marked, area mapped, trees marked) and lining out the FPD fuels crew. If contractors are used for any part of the project, a show-me trip and bid solicitation will occur. Successful bidders will then be contracted to begin work as soon as ground conditions are adequate. Funds will be used to pay crews, contractors or others directly involved with the implementation of the project. Due to the number of acres involved in this project, cutting will occur over the 2012 and 2013 field seasons. It is possible that the entire project may be completed in 2012 if funding is made available in a timely manner and weather conditions, ground conditions and other variables are favorable from early Spring through late Fall.</p> <p><b>Provide a timeline for the project, including significant accomplishment milestones. 500 characters</b></p> <p>We will hold community meetings in the Seven Hill/Lower Sunshine area and discuss mitigation goals and plans with residents and will collect landowner agreements within the first 30 days of an award. We will begin marking trees following agreements in the Seven Hills area. In the Calwood project area, we will undertake specific project design details and marking trees within 30 days of a successful award. We expect to begin cutting in the Calwood project within 60 days of an award and within 90 days in Seven Hills/Lower Sunshine.</p>
10	<p align="center"><b>Collaboration</b></p> <p><b>Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters</b></p> <p>The Western Boulder County Healthy Forest Initiative is a collaborative partnership between the Sunshine FD, Boulder Rural FD, Lefthand FD, and Gold Hill FD, the Anchor Point Group, and the Front Range Roundtable. The WBCHFI is a formal large-scale grassroots effort to plan and implement wildfire mitigation efforts across FPD jurisdictions. Its mission is to proactively and collaboratively protect the communities located within its FPD jurisdictional boundaries and its values at risk while achieving ecological restoration. Calwood is a 501c3 education center offering outdoor education programs, camps, and retreats to thousands of people annually including Boulder Valley students. The Front Range Roundtable is a collaborative effort of 80 federal, state, and local agencies, nonprofit and private entities focused on forest restoration and wildfire mitigation across Front Range forests, identified in West Boulder County's lower montane forests as one of three priority areas for treatments because fuels mitigation and forest restoration can be simultaneously accomplished. The Roundtable chose the WBCHFI as a partner through a competitive selection process and will support the WBCHFI through its membership and member organizations.</p>
	<p align="center"><b>Project Longevity/Maintenance</b></p> <p><b>Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters</b></p> <p>In order to ensure these practices are effective over the long term, maintenance and follow-up activities must be part of the overall plan. Specific items that need to be addressed yearly or every two to three years include:</p> <ol style="list-style-type: none"> <li>1. Check for blow-down occurrence and clean up to reduce ladder fuels and fuel continuity.</li> <li>2. Monitor the increase of grass and forbs and take actions necessary to reduce or clear at appropriate locations.</li> <li>3. Inspect for natural regenerations and maintain at appropriate levels in terms of fuel loads, ladder fuels and fuel continuity.</li> <li>4. Review practices to determine prescribed fire potential; implement prescribed fire as appropriate.</li> </ol> <p>Fire Protection District personnel shall make these inspections with assistance from the Colorado State Forest Service as needed and may involve Boulder County forestry personnel if determined necessary.</p>
11	



# 7-Hills Roadside Thinning Projects





# 2012 Cal-Wood Shaded Fuel Breaks

Berry Ridge Road Fuel Break  
5 Acres

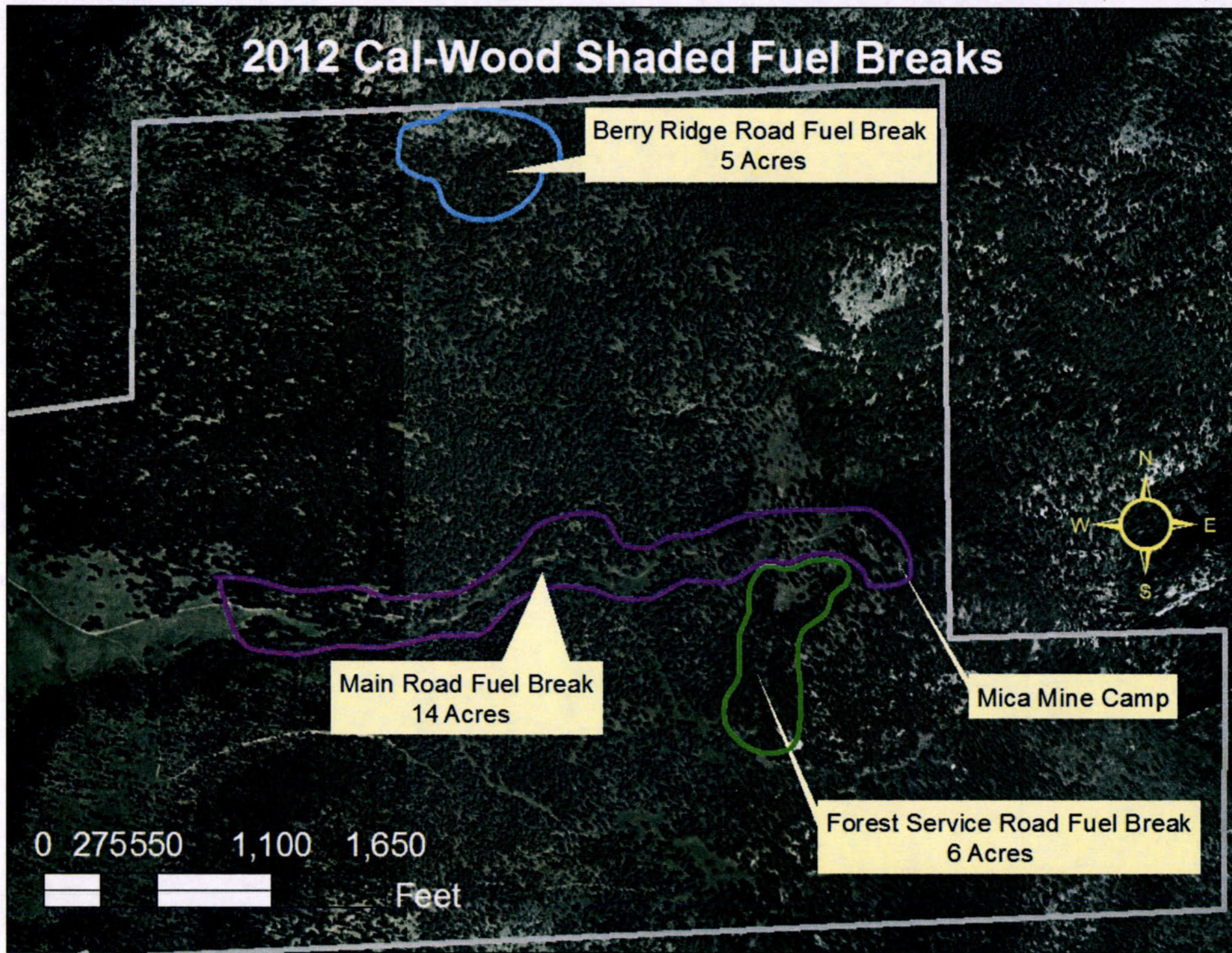
Main Road Fuel Break  
14 Acres

Mica Mine Camp

Forest Service Road Fuel Break  
6 Acres



0 275 550 1,100 1,650  
Feet







**2012 FRFTP  
Fuels Mitigation  
Grant Program  
(2011 SFA & CPG)**

FOR OFFICIAL USE ONLY	
Entity Submitting Project:	
County:	
Date:	
Dollar Amount Requested:	\$ 0
Matching Share:	\$ 0

1	Applicant Information	
	<b>Name of Project:</b>	Lyons Fire Protection District 2012 SFA & CPG
	<b>Applicant:</b>	Lyons Fire Protection District
	<b>Contact Person:</b>	Fire Chief- J.J. Hoffman
	<b>Address:</b>	251 Broadway or P.O. Box 695
	<b>City/Zip Code:</b>	Lyons 80503
	<b>Phone (Work/Cell):</b>	Office-303-823-6611 Cell- 303-775-1461
	<b>Email:</b>	chief@lyonsfire.org
	<b>Fax:</b>	303-823-5568

2	Community-at-Risk Information	
	<b>Community Name:</b>	Spring Gulch, Blue Mtn. Lyons Park Estates, Stone Canyon Eagle Ridge
	<b>County:</b>	Boulder
	<b>Name of CWPP</b>	Lyons Fire Protection District- CWPP
	<b>Location to obtain/review</b>	Lyons Fire Protection District or CSFS- web site

Grant Contributors (Matching Share)							
(Applications will be disqualified if sufficient match is not identified.) Please specify the name of each match contributor and the dollar amount of each contribution. Please DO NOT show grant -requested funds in this table. This is for matching share only, which is a minimum of 40 percent of total project cost.							
3	<b>Contributors: (Please specify)</b>	CSFS	LFPD	Private			<b>TOTAL</b>
	<b>Dollars (Hard Match):</b>	\$55,500	\$0	\$51,750	\$0	\$0	<b>\$107,250</b>
	<b>In-Kind (Soft Match):</b>	\$0	\$3,750	\$0	\$0	\$0	<b>\$3,750</b>
	<b>TOTAL:</b>	<b>\$55,500</b>	<b>\$3,750</b>	<b>\$51,750</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$111,000</b>

4	Total Project Expense (break down matching share totals from block three)				
		Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
			Dollars	In-Kind	
	Personnel / Labor:	\$32,745	\$30,532.50	\$3,000.00	\$66,277.50
	Operating:	\$3,718.50	\$3,467.25	\$0	\$ 7,185.75
	Travel:	\$1,276.50	\$1,190.25	\$0	\$ 2,466.75
	Contractual Services:	\$1,498.50	\$1,397.25	\$0	\$ 2,895.75
	Equipment:	\$5,161.50	\$4,812.75	\$750.00	\$10,724.25
	Indirect Costs:	\$11,100.00	\$10,350	\$0	\$21,450
	TOTAL:	\$55,500.00	\$51,750.00	\$ 3,750.00	\$111,000



Project Summary (check all that apply and answer related questions)			
Is this project identified through a CWPP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Is this project identified in Colorado's State Forest Action Plan (Statewide Forest Resource Assessment & Strategy)? <u>UNK-Yes</u> <input type="checkbox"/> No			
Do the treatments in this project reduce fire hazard while improving ecosystem health to create forest systems that are more resistant to disturbance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Project Objectives (check all that apply)			
5	Reducing threat of large, high-intensity wildfires to the public, firefighters and community infrastructure.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Improving forest health conditions by restoring ecosystem function, structure and species composition.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Number of acres to be treated:	74	Estimated cost/acre:    \$1,500
	List the communities directly affected by this project:		Spring Gulch, Blue Mtn, Lyons Park Estates, Stone Canyon/ Eagle Ridge



## Project Area Description

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief overview of the project, project area and relevance to the Colorado State Forest Action Plan (Statewide Forest Resource Assessment & Strategy). Specify size of project and land ownerships involved (e.g. private, county, state, etc.). Submit a single one-page map of the project area (view instructions on request for proposal). 1,750 characters**

### Overview-

This project consists of multiple communities that we have identified in our CWPP. The past two years we have already used funding from an ESF fund to help start some of these areas. Our proposal is to start with the number one priority which is; ingress / egress for our citizens as well as firefighters. We also propose working on alternate evacuation routes in certain communities.

While doing our CWPP, we made note of all these roads as well as community fuel breaks needed to address wildfire issues, this total acreage came to approximately 1,400 acres that we identified that needed to be worked on for years to come.

We have identified numerous roads in our district that need mitigation treatment. Our number one priority is getting homeowners safely out of an area and fire fighters both in and out of an area in the event of a wildfire. The initial goal is to start with the egress issues in our communities, then work towards community fuel breaks and individual D-space with property owners. Because we have an extended district and our communities are spread out with varying housing densities; it is more beneficial to only do smaller acreages at a time because it has proven to be a challenge in getting everyone on board in a community as well as getting permission and or funds from homeowners to make a project go through!

We have found by working on smaller acreages / projects at one time it gives the community a chance to see what mitigation is all about and also show them what a project looks like when it is complete!

We understand that the 1400 acres is not possible to complete anytime soon, in fact it will take years and years of not only work on the ground but meeting with home owners, gaining access and establishing working relationships with all the citizens in our community. This is the other reason for starting with smaller project acreage amounts in each community. The final goal is to tie it all together in a master plan which we have developed!

The first initial goal is working the roads, by this we plan on doing a minimum treatment of 70' on both sides of the roads in the areas we have identified. The 70' may be increased in certain areas depending on slope, aspect and fuel in these areas. By doing this we are creating two things, one providing the ingress / egress need identified; but ultimately. In some instances also providing a fuel break to certain areas of a community. We have various areas that need the road work done for safe egress, but because of the height of the trees and the overgrown stand of trees, these areas are at a prime risk of compromising safe passage and for a fire to jump a road and continue to burn out of control.

### Land Ownership-

All of the land in these communities we have identified is private with the exception of one fire access



road that is owned by Boulder County.

### **Project Areas-**

#### **Spring Gulch-**

This is an area we have already had some success in mitigation treatment for egress. In the last two years we have treated approximately 40 acres some of which was individual D-space as well as egress issues. Our current effort has been focused on the North West area of the community. Our next proposed projects are to start with roads that need immediate attention in the center and towards the West and South end of the community. The areas of roads that we have identified for the first round equal approximately 12 acres. We would also like to set aside 10 acres for individual D-space around homes.

*Acres Identified in Spring Gulch=22*

#### **Lyons Park Estates-**

Over the last year we have done a few small individual acres mostly concerning individual D- space. We have identified a few sections of road that needs to be improved not only for egress but as a community fuel break for numerous houses. One of the first projects we have identified is a portion of road that consist of approximately 6 acres for egress issues and another approximate 8 acres of a fuel break that parallels the same section of road. There are several areas of concern in this community, one which is also a fire access road that also serves as an emergency evacuation route for wildfires and flood events. This access road is owned by Boulder County Open Space. We are currently working with Boulder County to establish a working relationship / partnership on the mitigation effort on this road. The fire access road is approximately 8 acres in which we may be able to work with Boulder County on to establish a final project. We would also like to use 4 acres for individual D-Space in this community.

*Acres Identified in Lyons Park Estates=26*

#### **Blue Mountain-**

The prime focus in this community is towards the North end of the subdivision. Because of the distance from the fire station, the residents in this area could be looking at up to a 15-20 minute response. Our goal is to provide them with a safe and adequate egress in the event of a fire. Some work has been done by individual home owners on D-space the last few years, but nothing has been done with the roads in this area. We have recently seen an increase in beetle activity in this area as well as over the last few years more and more patches of dead ponderosa pines. This is a concern due to the fact this area historically has seen its share of wildfires due to lightning strikes.

There are also larger areas that have allot of old large growth Ponderosa Pine that is now dead and down. In the event we have a wildfire in one of these areas it is of great concern due to all the issues stated, that is why we the road egress is so important to these home owners. The approximate acres we have identified for the first round is 9 acres. We would like to use 4 acres of these funds for individual D-space around homes.

*Acres identified in Blue Mountain=13*

#### **Stone Canyon / Eagle Ridge-**

Primary concern is working on an emergency evacuation route for residents at the top of Eagle Ridge.



This area has only one way in and out. Over the last year we have established an alternate route that needs improvement for emergency egress. Although there is a lot of work needed in this area over the next several years, our first concern is the road. This access road consists of 12 we are targeting 4-5 acres this first year. Another area is in the Stone canyon area, which we have identified numerous areas on ingress / egress issues. This area needs much work as well over the next few years which we will eventually get too. The first area we are targeting consist of 6 acres for egress, fuel break and alternate evacuation routes. We would also like to use 2 acres of these funds for individual D-space around homes.

*Acres identified for Stone Canyon / Eagle Ridge=13*

#### **Summary-**

These areas identified are all areas of concern in our final master plan. We understand that when requesting these funds that we may or may not receive them. Because a large majority of our residents depend on grant funding to move forward on projects, it is unclear if we will have 100 % participation from all residents in the areas we have identified. It is uncertain exactly how many acres we will actually get until that time comes. We are hoping with these grant funds it will spark interest with our residents to get work done as well as spread the word to maybe those residents that are unsure on no informed on mitigation practices and the goals with mitigation.

We have already met with numerous homeowners and road boards to establish working relations as well as try to educate our citizens on the importance of mitigation, but we also understand how the economy plays a role from day to day. While meeting with residents we have received a great reception for the mitigation work that we have already completed and have had many residents in the areas identified in this grant express interest if we receive additional grant funding!

**Total Acreage= 74 acres**

#### **Scientific Foundation/Practice Standards**

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Briefly describe the scientific foundation for the project, specifically the practice standards (e.g. forest management plan, CWPP, professional publications, other professional technical resources, professional foresters or other natural resources professionals) that will be applied to achieve the desired outcome of the project. 1,000 characters**

The Boulder County foothills and mountain areas are listed in the Federal Register as Urban-Wildland Interface Communities in the Vicinity of Federal Lands That Are at High Risk from Wildfire (<http://www.forestsandrangelands.gov/resources/documents/423-437-en.pdf>). The area is also shown in the Colorado State Forest Service WUI Hazard Assessment map as red, an area of high Hazard Value (an aggregate of Hazard, Risk and Value). It is generally acknowledged that decades of a policy of fire suppression along the Front Range has exacerbated the potential for high-intensity wildfire due to resulting overgrown and unhealthy forests. The primary fuel models that we are trying to address in this grant are timber models, principally 8 and 9 with some areas of FM 10. Areas of heavy brush fuel models impacting emergency road passage will also be addressed

Nearly all communities have single ingress/egress routes. Response times in many areas of the district



are in excess of 20 minutes along privately maintained, reasonably well-graded narrow dirt roads, some of which are also steep. Four-wheel drive is a necessity for fire apparatus in most areas. The proposed treatment projects are projected to allow for safe egress of evacuees and to allow some effective fire control efforts once resources arrive.

It is our intention to use CSFS foresters, or contracted foresters, to aid us in detailed planning of the treatment project areas. We would expect to use techniques in: Fuelbreak Guidelines for Forested Subdivisions & Communities by Frank C. Dennis. Though a shaded fuel break outlined should extend to approximately 150 ft from the roadway our initial goal is to provide primarily safe egress by treating approximately 70 ft from the roadway. Once property owners are comfortable with aesthetics and forest health results of these initial mitigation efforts it is our intention to expand the treated areas to provide a true fuel break. In many areas roadway mitigation will be blended with intersecting defensible space adjacent to residences using guidelines provided in Creating Wildfire-Defensible Zones, no. 6.302 by F.C. Dennis.

Maintenance of treated areas are intended to be the responsibility of the individual property owners. The mitigation crews will provide maintenance information to the property owners upon completion of project area. Once the initial efforts are completed we believe the effort and/or cost to maintain the mitigated areas is within the capabilities of most property owners.

### **Risk Reduction**

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Describe how the proposed project will contribute to the reduction of wildfire risk to the public, firefighters and community infrastructure. 700 characters**  
**Risk Reduction-**

8 The proposed projects portray a very large amount of risk reduction. We have targeted areas that have very poor egress and or fuel break concerns. The goal is to deal with an unhealthy and overcrowded forest with dense trees crowding both sides of the roads identified. Numerous areas are of great concern not only because of the dense forest; but because where these roads are impacted the dense trees are at the top of a chimney or drainage as well as having tall grass and shrub ladder fuels which will create extreme fire behavior and result in running crown fires. Due to the fact that many of the roads throughout the district in the rural area are barely wide enough for two cars and many of them only wide enough for one car, this poses and extreme problem for firefighting apparatus to make access as well as possess an extreme threat for the residents to make a safe exit.

A primary target is thinning along these roads reducing ladder fuels as well as thinning projects as a whole to make a safe passage and possibly reduce the possibility of a crown fire from pushing across the road. The forest in these communities; have been untouched for many years now. It was not until just recently due to the Four Mile fire; most residents did not really start to recognize and react to the issues in their communities. Many areas that we have suggested are an extreme threat to firefighter safety and welfare as well as the welfare of the citizens. The reduction of fuels will benefit entire communities because of their natural surrounding s of living in the wildland urban interface.

Many of the subdivisions only have one way in, some have two, but neither the exit nor entrance is currently safe in the event of a wildfire. Clearing these areas will provide a safer evacuation plan for the entire community, not just only for a few residents. We have determined safety areas as well in these communities so in the event of a wildfire, firefighters and residents can seek shelter in the zones.



Primarily in the event of a wildfire we want to prevent it from escalating. If we have a large wildfire in some of these areas, currently we are looking at a great potential for injury or death due to all the factors listed above.

Safety is our ultimate priority! Ultimately our goal is to improve wildfire risk reduction throughout the entire community by doing not only work on the roads; but providing community fuel breaks and completing individual D-space work around houses, as well as, thinning larger properties to provide reduced wildfire threat and creating a healthy forest as well!

All of the information listed above is based on our direct observation while conducting our CWPP. This survey allowed us to drive all the roads in our district and identify areas of concern. This was based on- fuel loading, slope, aspect, fuel model, fuel height, topography, valuables at risk, past fire history in the area and general access and egress in the community!



## Scope of Work/Project Timeline

All information for the project must fit into the allotted character space provided below.  
Attachments will not be considered by the review committee. **Characters include letters, numbers, spaces and punctuation.**

**Provide a brief scope of work that clearly describes how grant funds will be spent. (This should be more specific than the project description.) 1,500 characters**

These funds will be used for fuels treatment / mitigation efforts in the communities listed in the project description. The primary use of these funds on the projects we are proposing will be used for thinning and creating fuel breaks as well as some individual D- space. These funds will also be used as a match / in kind contribution to landowners on the projects we are working on.

These funds will cover the following items-

Labor, workman's compensation, insurance cost, travel expenses, rental equipment, fuel for vehicle use, administrative cost, overall project cost and equipment to include: fuel, chains, oil, minor replacement saw parts and safety equipment.

### Scope of Work-

Colorado State Forest Service or contracted foresters will define detailed prescription for identified project areas. This will include, at a minimum, limbing of branches up to 6' high, removing trees that have been marked for removal, bucking trees into the appropriate lengths, creating slash piles and possibly chipping procedures in certain areas as the project deems it necessary. It also includes working with individuals from Colorado State Forest Service in laying out the entire project, marking project boundaries, contract negotiations between land owners, gaining license to enter agreements from property owners, final inspections on projects and documenting /tracking progress to insure the goal for the master plan is accomplished.

Although we have defined different projects in our request i.e.: Ingress / Egress, Community fuel breaks and Individual D-space, the scope of work will remain the same. The only changes as far as scope of work between the different projects will be the amount of acres for the desired treatment. This is described in the project description and Scientific Foundation/Practice Standards listed above.

### Time line-

Our goal is once notified on success in receiving grant funds, is to move forward immediately with the projects listed above and be complete in 18 months or less. Our mitigation crew productivity can easily complete the acreage in 18 months, our pacing factor is obtaining private matching funds for completion of the projects.

**Provide a timeline for the project, including significant accomplishment milestones. 500 characters**

9

## Collaboration



**Specify the private, local, tribal, county, state, federal and/or non-governmental (501c3) organizations that participated in the design of this project, and describe how such partners will contribute to, or participate in, the project's implementation. 1,000 characters**

The design of this project was mostly done by the Lyons Fire Protection District with reviews done by Colorado State Forest Service. The CWPP consisted of reviews done by: Colorado State Forest Service, United States Forest Service, Boulder County, Larimer County and Hygiene Fire Protection District.

Our goal in this grant process is to work closely with members from the local Colorado State Forest Service District, in ensuring the projects are done to the correct specifications and plans laid out for the projects. This will consist of pre-planning, marking, project tracking and inspections. We also plan on working with Boulder County in efforts to complete alternate evacuation routes and community fuel breaks in the Lyons Park Estates area. This area as well as others such as, the Button Rock Preserve have been identified in the Boulder County CWPP as a High priority. In a recent meeting with Boulder County, we have identified this area as well as others in our district that we can try to work on reducing hazards, provide mitigation and alternate egress for. The collaboration will be ongoing with these same entities throughout the grant period.

### **Project Longevity/Maintenance**

**Clearly demonstrate the long-term benefits of the project, and who will provide what maintenance services. 500 characters**

The long term benefits for this project are reducing the wildfire hazards and risks we have identified in our CWPP. Long term- our goal is to improve community involvement, knowledge and understanding of fire prevention / mitigation, improving our safety zones, establishing solid evacuation routes and individual D-space for homeowners and overall; reduce the possible threat to an un-controllable wildfire. The ultimate long term benefit is getting the community involved and continuing to be involved with the fire protection district.

The Maintenance of treated areas is intended to be the responsibility of the individual property owners. The mitigation crews will provide maintenance information to the property owners upon completion of project area. Once the initial efforts are completed we believe the effort and/or cost to maintain the mitigated areas is within the capabilities of most property owners.

The fire district will continue to provide information seminars, community and out reach..