

## Additional Defensible Space Tips...

- 🔥 Maintain greenbelt around home. Plant moisture rich vegetation (Ice Plants)
- 🔥 Mow dry grasses and weeds
- 🔥 Stack fire wood and other fire prone items away from home
- 🔥 Prune branches to 10' above the ground
- 🔥 Remove vegetation and fuels from around propane tanks
- 🔥 Reduce density of surrounding forests
- 🔥 Maintain the Defensible Space for up to 100 feet.

## During a Wildfire...

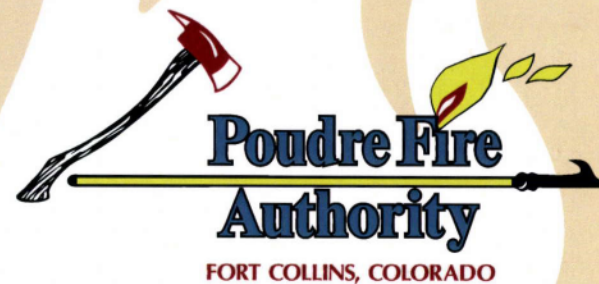
- 🔥 Wear protective clothing (cotton long-sleeved shirt and pants)
- 🔥 Locate and evacuate pets. Open gates for livestock to escape
- 🔥 Grab your pre-made disaster kit (made up of water, clothes, blankets, first aid kit, medications, radio, flashlight, extra set of car keys, and credit cards or cash)
- 🔥 Shut off gas at meter or propane tank
- 🔥 Park extra cars in garage facing out
- 🔥 Close garage door (do not lock)
- 🔥 Turn on exterior lights (will make house visible in smoke or at night)
- 🔥 Take down light weight curtains and move furniture away from windows. Close heavy weight drapes
- 🔥 Know pre-planned emergency escape routes

Poudre Fire Authority  
Wildland Outreach Planning Initiative  
<http://www.poudre-fire.org> | (970) 221 6570

# Homeowner's Guide For Living

## In The Wildland

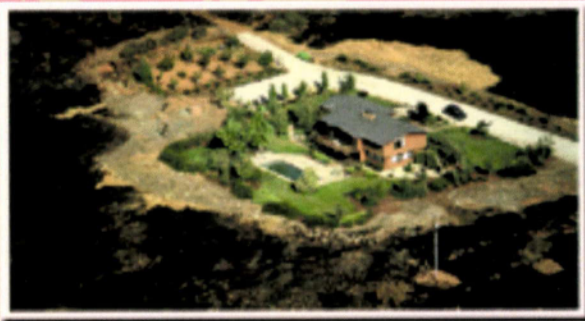
## Urban Interface





## Living With Fire...

Fire is a natural process along the Front Range of Colorado as it is elsewhere throughout the western United States. A growing number of people in the U.S. now live in the wildland urban interface. The wildland urban interface (WUI) is a generic term for different types of human development found in the rapidly growing rural West; subdivisions that bump up against open space and areas where housing is mixed into areas of natural vegetation and woodland. The vegetation in these interface areas makes them prone to fire in a way that urban landscapes are not.



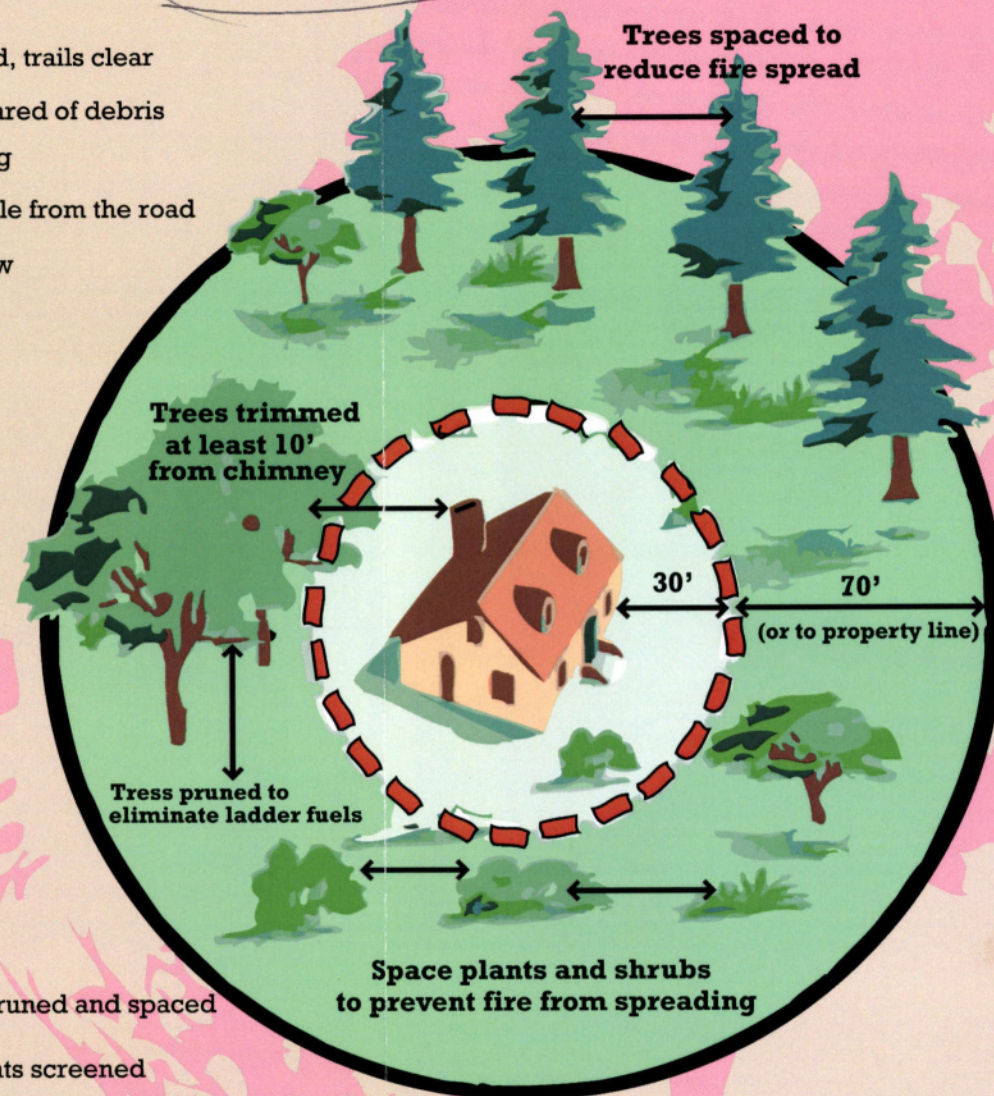
Through intensive efforts fire has been effectively excluded from our wildland environment since the early 1900s; however the threat of fire will always exist. Two facts distinguish the current threat from that of 100 years ago: Forests a century ago were healthier, and relatively few people lived in fire-prone areas. Today's forests are more vulnerable to catastrophic wildfire due to the fact that fuels such as vegetation, structures, landscaping plants and trees, and other combustible materials have increased in our wildland areas. Secondly the number of homes in the wildland area has increased dramatically during the second half of the century.

The Colorado Front Range is a high-hazard fire environment and with more people living near wildlands the likelihood for blazes igniting will increase. We all have a part to play in being better prepared for such an event - please take a few minutes to review the information in this brochure.

## Helping Yourself

Perhaps surprisingly, the most critical resource for minimizing destruction by wildfire is not the firefighters. It's the homeowners. Research suggests that, by learning about the fire environment, taking appropriate "pre-fire" actions and making preparations for an actual wildfire threat <http://www.poudre-fire.org>, you can significantly improve your home's survivability.

- 👍 Dying trees removed, trails clear
- 👍 Gutters and roof cleared of debris
- 👍 Nonflammable siding
- 👍 House number legible from the road
- 👍 Deck enclosed below



- 👍 On slopes, shrubs pruned and spaced
- 👍 Eaves enclosed, vents screened
- 👍 Dual-pane or thermal windows, fire resistant curtains
- 👍 Overhanging branches and shrubs cut back from driveway

The first step in a successful defense is understanding your enemy's tactics. Wildfire threatens your home in three ways: flying embers, radiated heat and contact by flames. Most home losses are caused by flying embers as they can land on easily ignitable fuels, like wood-shake roofs, trash, woodpiles and dead vegetation.



# FINAL REIMBURSEMENT REQUEST

## Community Wildfire Protection Plan Development and Implementation

Project Number: 5367010

In order to receive your final reimbursement, you must submit a Grant Report and this Final Reimbursement Request. Final reimbursement will not be released until the final grant report is received and accepted. Reimbursement requests must be accompanied by supporting documentation and documentation of voluntary matching funds, if any. Federal Funds cannot be used as sources for meeting the cost sharing (matching) provisions. Matching funds are expenses for goods, services, and labor necessary for project implementation and incurred by the applicant which are not reimbursed with Federal funds. (This requirement only applies if you quantified a match in your original proposal.)

Sub-Award #G-6701-6	2. Total Award Amount: \$135,000
4. Make Payment To: Name: Poudre Fire Authority Address: 102 Remington St., Fort Collins, CO 80524	5. Period of Performance: From: 11/1/2009 To: 9/30/2011

6. Grant Report as an attachment. Project overview--process, who, how, where, other important information, etc. Examples of project accomplishments. Please be specific and report all numbers applicable to the grant for jobs, acres treated, numbers of defensible spaces, tons of cubic feet or yards of slash collected, number of presentations, and number of plans written. Compare actual accomplishments to those identified in your grant proposal. Explain any variances. Optional information may include more detail on specific projects with maps, photos, and accomplishments.

7. Reimbursement Request: \$ 27,272.03  
 Project to Date Reimbursement Request Amount cannot exceed the total award obligation as identified in the Award Document.

Current Period				Project Total		
Budget Categories	Reimbursement Request Amount	Matching Funds*	Total Costs	Previously Requested Amount	Matching Funds*	Total Costs
Labor & services)	\$25,617.18			\$78,787.31		\$104,404.49
Material & other)	\$1,654.85			\$1,032.60		\$2,687.45
Total	\$27,272.03	\$0.00	\$0.00	\$79,819.91	\$0.00	\$107,091.94

Note: Attach additional sheets if necessary. See also separate invoice and supporting documents.

Donated time and materials can only be counted towards the matching component.  
 Use actual costs or \$20.25/hour (2009-2010) and/or \$20.85 (effective Jan. 1, 2011) for donated or volunteers' time.  
 Use actual costs or fair market value of donated materials, supplies, or equipment use.

I request final reimbursement in the amount of \$ 27,272.03, for the work completed and documented above. I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays reported are for the purposes set forth in the grant award documents.

Signature [Signature] Date 11/11/11  
 Sub-recipient

8. Certification (To be completed by ARRA Project Manager and ARRA Program Manager)  
 Work meets minimum standards as set forth by CSFS.

Signature [Signature] Date 11/21/11 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Project Manager Program Manager



# Attachment 5

Poudre Fire Authority  
The City of Fort Collins Natural Areas Program

Grant Application for  
Community Wildfire Protection Plan Development Project  
**REVISION, 6/24/2010**

As Supported by the American Recovery and Reinvestment Act of 2009  
Through the Colorado State Forest Service

Contact: Geoff Butler  
Poudre Fire Authority  
102 Remington St.  
Fort Collins, CO 80524  
Larimer County  
970.217.8495

DUNS number: 144418993

Employer ID  
Number: 84-0865055

Funding Request: \$135,000

Jobs Created: One career firefighter and two term part-time  
technicians

Job Duration: Twelve to thirteen months



## PROJECT SYNOPSIS

The Poudre Fire Authority (PFA) and the City of Fort Collins Natural Areas Program (FCNA) have partnered to request funding to support the comprehensive updating and revision of the PFA Community Wildfire Protection Plan (CWPP) and the development and inclusion of relevant Natural Areas fire management plans as components of this document. Two positions will be created for a minimum of 15 months each. The final deliverable will be the PFA CWPP that will meet Colorado State Forest Service (CSFS) standards and federal guidelines as established by the 2003 Healthy Forest Restoration Act and set forth in the 2004 CWPP Handbook and 2008 CWPP Community Guide.

The area to be assessed includes the 235 square miles of PFA's jurisdiction including 8,000 acres of Fort Collins Natural Areas and an additional 25,000 acres of Fort Collins Natural Areas outside of this jurisdiction. Over 50 square miles of this area has been identified as priority Wildland Urban Interface (WUI), including over 800 residences and substantial portions of Lory State Park and Horsetooth Mountain Park.

The FCNA and PFA have demonstrated the capability of completing the proposed work plan through the creation of an initial CWPP and the initiation of community risk assessments, public outreach, fire restoration activities, and fuels management projects over the past five years. The project coordinator, Geoff Butler, has extensive experience writing CWPPs and similar plans in New Mexico and throughout Colorado. The creation of these two positions will allow for a more efficient, consistent, and coordinated effort than has been possible in the past.

## WORK PLAN

### A. Direct Jobs Created:

The requested funding will support two full time positions.

- **PFA Career Firefighter:** A new firefighter will be hired for thirteen months to provide coverage for a senior firefighter to assume the duties of WUI Mitigation Coordinator.

The WUI Mitigation Coordinator will need to remain on-shift until the new hire has completed his academy in December 2010. During this period, the WUI Mitigation Coordinator will begin his grant related duties through a combination of overtime work and on-shift work as possible. Once the new hire has assumed on-line duties in December, the WUI Mitigation Coordinator will be placed on a regular 40 hour schedule with the primary duty of completing the CWPP grant related duties. While on this special assignment, the WUI Mitigation Coordinator will be required to maintain currency in the skills and certifications required for his return to regular duties, including attending trainings and possibly responding to large scale incidents



- **Natural Areas Fire-Technicians:** Funding will be provided for forty hours a week for a period of twelve months. The funding will cover 50% of two technician positions, with the remaining 50% of salary funding coming from the Natural Areas operations budget. Duties will be commensurate with funding, with a 50/50 split between CWPP related duties and general natural areas duties. Specific CWPP related duties include the updating and development of fire and fuels management plans integral to the CWPP development.
- B. This CWPP will require no permits. The WUI Mitigation Coordinator will periodically communicate with the PFA Fire Prevention Bureau and Larimer County authorities to ensure that this has not changed. Permit requirements for work planned pursuant to the CWPP will be identified.
- C. Communications/Outreach Strategy
- A core team comprised of representatives from the state, local fire authority, local government and other stake holders will be established and will communicate on a quarterly basis at a minimum.
  - Relevant federal agencies, including the Canyon Lakes Ranger District of the United States Forest Service will be apprised of the CWPP projects, invited to contribute, and updated as warranted.
  - The PFA WUI Mitigation Coordinator will continue to maintain contact with stakeholders including the Redstone Canyon HOA, Whale Rock Roads Association, and the Rist Canyon VFD regarding assessment and outreach activities in or adjacent to these areas. Methods of communication with stake holders may include meetings, phone calls, email, and mail.
  - Individual home owners will be contacted via mail, email, or phone regarding the community risk assessment, which will include individual home risk evaluations conducted by fire department representatives. Homeowners will be invited to participate in their own home risk evaluations.
  - A website will be established by PFA to provide educational links and individual home assessment ratings to the public.
  - Larimer County, the Canyon Lakes District of the U.S. Forest Service, the Fort Collins District of the Colorado State Forest Service (CSFS), and adjacent fire departments will be apprised of activities and progress via the Larimer County Fire Council meetings and direct contact as appropriate.
  - The PFA boards, which represent the City of Fort Collins, the Poudre Valley Fire Protection District will be updated through briefings in the board meetings.
- D. CWPP Selection Method
- The primary criteria for defining the WUI will be those areas with wildland fuels that are within ½ mile of community boundaries as defined by the Healthy Forest



Restoration Act of 2003. Areas within 1½ miles of community boundaries may be considered as WUI where special circumstances warrant. The WUI will be specifically designated in the community base maps.

- WUI areas will initially be prioritized based on existing CSFS and Larimer County hazard ratings. Further evaluation will be based on potential fire behavior given the specific fuels and topography as well as the risk characteristics of the adjacent community using established methodology.

E. Letters of support and cooperation have been received from representatives of Loveland Fire and Rescue, PFA, and FCNA and are attached to this proposal.

#### PROJECT TIMEFRAME

Project Element	Method	Target Date
Engage Interested Parties	<ul style="list-style-type: none"> <li>-Establish and convene core group</li> <li>-Contact relevant federal agencies</li> <li>-Identify and contact other stakeholders</li> <li>-Establish a schedule of public forums</li> </ul>	9/30/2010
Community Base Maps	<ul style="list-style-type: none"> <li>-Identify WUI areas and initial prioritization</li> <li>-Draft fuels hazard maps</li> </ul>	12/30/2010
Community Risk Assessment	<ul style="list-style-type: none"> <li>-Update ignition and response data</li> <li>-Redzone software will be used to evaluate ignition risk of approximately 300 homes in PFA's WUI. Approximately 600 homes.</li> <li>-On-duty engine companies may be used to assist with outreach and home evaluations.</li> <li>-Natural Areas will have draft management plans that address fire risk to WUI.</li> </ul>	3/30/2011
Draft CWPP	<ul style="list-style-type: none"> <li>-Hazard reduction priorities will be established.</li> <li>-Hazard reduction priorities will include recommendations on City of Fort Collins property and private property within PFA's jurisdiction.</li> <li>-Where appropriate, hazard reduction priorities will be developed in coordination with work being conducted on lands owned and managed by Larimer County, Colorado State Parks, Bureau of Reclamation, and the U.S. Forest Service.</li> <li>-Individual home assessments will be available to residents and will include recommendations to reduce structure ignitability for each property.</li> </ul>	6/30/2011
Final CWPP	<ul style="list-style-type: none"> <li>-Final CWPP will be completed, including a list of action items.</li> <li>-Action items will address the hazard reduction priorities.</li> <li>-Strategies for implementing action items will be identified.</li> <li>-Where possible, assistance will be provided to private citizens and stakeholders for coordinating the implementation of action items. This may include the pursuit of further grant funding for mitigation work on public and private lands.</li> </ul>	9/30/2011



## GRANT REQUEST

The WUI Mitigation Coordinator and Natural Areas Fire Technician will work in concert to prepare quarterly report requirements, respond to periodic audits, and meet other accounting and administrative requirements. Each position will keep time records, job logs, and expense records. PFA administrative staff will be available to assist as needed. Each position will function under the its own department's chain of command.

Career firefighter compensation for a period of 13 months to provide coverage for a senior firefighter to assume a special term assignment as the WUI Mitigation Coordinator.	\$81,290
Two half-time (40hrs/wk total) Natural Areas Fire Technician salaries based on an hourly wage of \$16.50 for 12 months with an allowance for up to 75 hours of overtime.	\$36,176
Direct Project Expenses Estimates: Vehicle operating cost for field assessments using 4x4 patrol vehicle (based on 12 days x 30mi/day x \$0.75mi operating cost).....\$270 Mileage for attending meetings using Subaru (200mi x \$.50).....\$100 Business contact cards.....\$80 Public mailing to WUI residents.....\$1725 Establishment of CWPP project website (partial cost).....\$1500 Report hard copies.....\$1325 *Costs are based on best estimates. We anticipate the possibility of having to shift funds between the line items within the direct project expenses based on prioritized needs and actual costs.	\$5,000
Support for approximately 330 hours of overtime to initiate the PFA portion of the project work while waiting for the new firefighter to complete academy. This may support work performed by the WUI Mitigation Coordinator or assistance from other members of the department.	\$12,534
<b>Total Request</b>	<b>\$135,000</b>

## PARTNERSHIPS

This CWPP process will involve the partnership of PFA and the FCNA. The CSFS will be a member of the core team as stated in the CSFS Minimum Standards for CWPPS. Larimer County has been invited to participate as a member of the core team or in an advisory capacity. The U.S. Forest Service will be kept apprised of CWPP activities and recommendations.

Stakeholders that have been identified and included in the initial CWPP or the subsequent Wildfire Outreach and Planning Initiative include Larimer County, Horsetooth Mountain Park, Lory State Park, Redstone Canyon HOA, Whale Rock Roads Association, and the Rist Canyon VFD. These stakeholders will be included in the proposed CWPP process.

Loveland Fire and Rescue was invited but unable to partner on this grant. A special effort will be made to coordinate action items in areas adjacent to or overlapping their jurisdiction and PFA will support the Loveland CWPP process in any way practicable.



## REFERENCES, PROFILE, and EXPERIENCE

Geoff Butler is serving as the primary contact and coordinator for this project. He is a driver/operator for PFA where he has worked extensively as a member of the WUI Team and as the project manager for the Wildland Outreach and Planning Initiative. He has also been retained in the past by several private corporations to develop CWPPs and similar WUI related products.

Projects include:

**Roxborough State Park Fuels Management Plan, June – November, 2005:** This project assessed the nature and severity of wildland fuels hazards in this WUI park. Guidelines for treatment options were based on existing research and recognized guidelines and practices for each of the various vegetation types. (<http://parks.state.co.us/NR/rdonlyres/0EC0CA44-4130-483C-8F9F-F561A9459681/0/roxfuelmangplan.pdf>)

Landowner: Colorado State Parks

Primary Contractor and Reference: Eric Petterson, Rocky Mountain Ecological, Inc.  
PO Box 833  
Glenwood Springs, CO 81602  
Phone/Fax: 970-945-9558  
[epetterson@rmes-inc.com](mailto:epetterson@rmes-inc.com)

**Poudre Fire Authority Community Wildfire Protection Plan, November 2005 – November 2006:** Obtained grant award to support this initial CWPP for the 235 square mile area. Used GIS combined with fire behavior modeling to develop hazard fuels maps and prioritize areas of concern.  
(<http://www.poudre-fire.org/about/pdf/pfaCWPP.pdf>)

Landowner: Predominantly private land within Larimer County, Colorado  
Reference: Mike Gress, Poudre Fire Authority  
102 Remington St.  
Fort Collins, CO 80524  
Phone: 970-416-2861  
[mgress@poudre-fire.org](mailto:mgress@poudre-fire.org)



**Jefferson County Community Wildfire Protection Plans, July 2006 – July 2008:**

Performed WUI assessments, conducted planning activities and public presentations. Served as primary author of CWPPs for the City of Golden, Indian Hills FPD, West Metro FPD, and Foothills FPD. Provided support on CWPPs for Inter-Canyon FPD, Genesee FPD, Fairmount FPD, and Evergreen FPD.  
([www.co.jefferson.co.us/sheriff/sheriff\\_T62\\_R193.htm](http://www.co.jefferson.co.us/sheriff/sheriff_T62_R193.htm))

Landowner: Predominantly private land within Jefferson County, Colorado

Primary Contractor and Reference: Stan Spencer, Walsh Environmental  
4888 Pearl East Circle, Suite 108  
Boulder, Colorado 80301  
Phone: 303-443-3282  
[sspencer@walshenv.com](mailto:sspencer@walshenv.com)

**Sandoval County Community Wildfire Protection Plan, October 2007 – May 2008:**

Led the field assessment team, participated in core team meetings, and co-authored the CWPP for this expansive and multi-jurisdictional county. ([www.swcacwpps.com](http://www.swcacwpps.com))

Landowner: Mix of tribal and private lands

Primary Contractor and Reference: Joseph Fluder, SWCA Inc.  
5647 Jefferson Street NE  
Albuquerque, New Mexico, 87109  
800- 828-8499  
[jfluder@swca.com](mailto:jfluder@swca.com)

**Breckenridge WUI Forest Management Plan, April 2008 – March 2009:** This project focused on mountain pine beetle recovery and fuels mitigation planning in and around the town of Breckenridge, Colorado.  
(<http://www.townofbreckenridge.com/Modules/ShowDocument.aspx?documentid=1666>)

Landowner: Town of Breckenridge

Reference: Jennifer Cram, Town of Breckenridge  
PO Box 168  
Breckenridge, CO 80424  
970-547-3116  
[jenn@breckgov.com](mailto:jenn@breckgov.com)



**Geoff Butler**  
**4617 Regency Dr.**  
**Fort Collins, CO 80526**

- Education**
- M.S. in Forest Sciences, Colorado State University, Fort Collins, May 2002  
Field of Study: Forest Fire Science
  - B.A. in Political Science, University of Colorado, Boulder, December 1991
- Work History**
- **Poudre Fire Authority**, Municipal firefighter responding to emergencies along Colorado's Front Range and wildland fires throughout the West, 1998-present
  - **Alpenfire LLC**, Founder and Director of this consulting practice specializing in providing wildland fire management solutions to planning firms and governmental agencies, 2005-present
  - **Colorado State University**, Instructor of Wildland Fire Management, 2003-2005
  - **U.S. Forest Service and National Park Service**, Wildland firefighter with engine crews, the Alpine Hotshots, and California Smokejumpers, 1995-2000
  - **National Outdoor Leadership School and Colorado Mountain School**, Outdoor educator and mountaineering instructor, 1987-1995
- Wildland Fire Operations**
- Fire assignments across the Western U.S. since 1995 have included work as an Engine Boss, Strike Team Leader, Helicopter Crewmember, Hotshot, Smokejumper.
- CWPP Experience**
- Author of numerous Community Wildfire Protection Plans (CWPPs) and Wildland Fire Hazard Assessments throughout Colorado and New Mexico.
  - Presented CWPP and other wildfire related topics to fire district boards, city councils, and at public meetings over the past seven years.
  - Facilitated numerous CWPP core teams.
  - Headed PFA's WUI Outreach and Planning Initiative which involved coordinating the risk assessments of over 500 homes within 50 square miles of WUI.
- Other Related Experience**
- Trained and experienced in applying a variety of fire behavior and hazard assessment models including Behave, FireFamily Plus, FlamMap, FarSite, Forest Vegetation Simulator, Nexus.
  - Secured federal grants to develop fire danger rating system for the Poudre Fire Authority.
  - Nine years of experience enforcing the Uniform and International Fire Codes.
  - Over twenty years of experience teaching leadership, outdoor skills, fire suppression operations, and forestry in the field and in the classroom.



Invoices enumerating hours worked and expenses incurred will be submitted on a quarterly basis along with a quarterly report and a deliverable. The milestone deliverable will represent the projects progress, not necessarily encapsulating the sum of all work accomplished. Additional accomplishments and progress will be outlined in the quarterly reports. PFA and the City of Fort Collins have received federal grants in the past and have a current Central Contractor Registration.

<b>Milestone Deliverable</b>	<b>Target Date</b>
First Quarterly Report Lists of core group members and minutes from first meeting CWPP draft outlines	9/30/2010
Second Quarterly Report Community base maps	12/30/2010
Third Quarterly Report Draft community risk assessment	3/30/2011
Forth Quarterly Report Draft CWPPs	6/30/2011
Fifth Quarterly Report Final Poudre Fire Authority CWPP	9/30/2011