

City of Colorado Springs Community Wildfire Protection Plan




"Sharing the Responsibility"

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Introduction

In 1999, a Tri-Data Corporation Study of the Colorado Springs Fire Department (CSFD) identified the need to address the risk of wildfire to the City of Colorado Springs. As a result of the recommendations in that report, the Colorado Springs Wildfire Mitigation Plan was completed in 2001. It included an extensive, interactive risk assessment of the wildland urban interface and the establishment of a strong community education program. The Colorado Springs Community Wildfire Protection Plan is an update to the Wildfire Mitigation Plan with detailed emphasis on future project planning and program features.

Wildland urban interface is defined as that part of the city where people and development meets wildland fuels and topography. The Colorado Springs region has a long history of wildland fires resulting in several fatalities and millions of dollars in suppression costs and property loss. The city continues to experience wildland fires on an annual basis. These fires pose a risk not only to neighborhood residents, but to special populations (i.e. nursing homes, schools and assisted living facilities), fire fighters, city infrastructure, natural resources and the city's economy. Throughout the western United States, wildland fires continue to increase in size, intensity, suppression costs and recovery costs. This is not a forest health issue alone, but an issue that must address the built environment as well. It is the relationship of the natural environment to the built environment that determines the risk of wildfire to life and property. Note an example of the relationship of the built environment to the natural fuels and landscape in Figure 1.

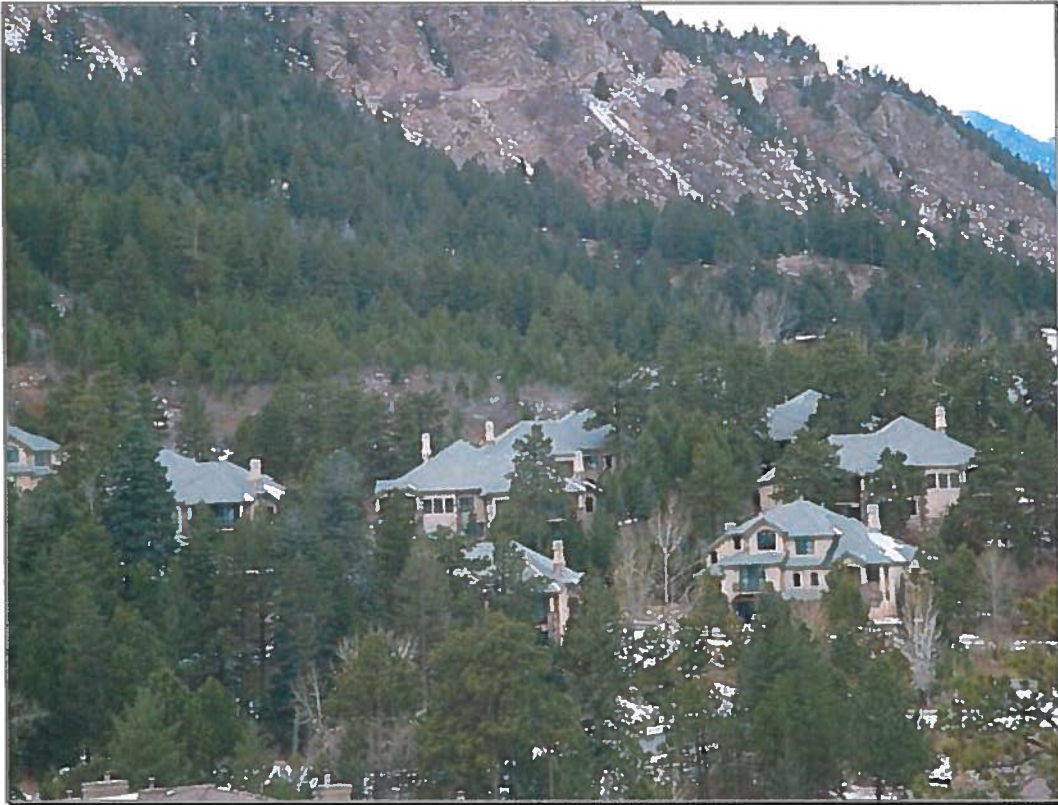


Figure 1. Broadmoor Neighborhood in the Colorado Springs wildland urban interface.



Goals and Objectives

The goals of the Colorado Springs Community Wildfire Protection Plan are:

- To reduce the risk of wildfire to the residents of Colorado Springs
- To reduce the risk of wildfire to fire fighters in a wildfire event
- To reduce the risk of wildfire to property and infrastructure
- To reduce the risk of wildfire to natural resources

The objectives of the Colorado Springs Community Wildfire Protection Plan are:

- To educate residents regarding ways to reduce their wildfire risk
- To reduce the amount of natural, hazardous fuels around and adjacent to homes, businesses, schools, infrastructure and medical facilities by 10-60% depending on fuel loading and stand health
- To improve the structural characteristics of new and existing construction in the wildland urban interface through ordinances, development review and individual consultation
- To manage common areas and open spaces with respect for the natural characteristics and protecting habitat features

Area Description

The City of Colorado Springs is located 60 miles south of Denver with a population of 414,358 residents. Colorado Springs is the county seat for El Paso County and is a home rule city. The Colorado Springs wildland urban interface encompasses 28,800 acres and shares over 16 miles of boundary with federal lands. 24% of the city's population resides in the interface. The wildland urban interface runs south from the Air Force Academy to Cheyenne Mountain Air Force Station and Fort Carson Army Installation. Although most of the defined area is in the foothills west of Interstate 25, there are areas to the east on bluffs and mesas that exhibit wildland characteristics. To the west of the interface is the Pike National Forest and within city boundaries there are state and county parks. City owned undeveloped parks and open spaces comprise 10,492 acres. See Figure 2 for area map and defined wildland urban interface.

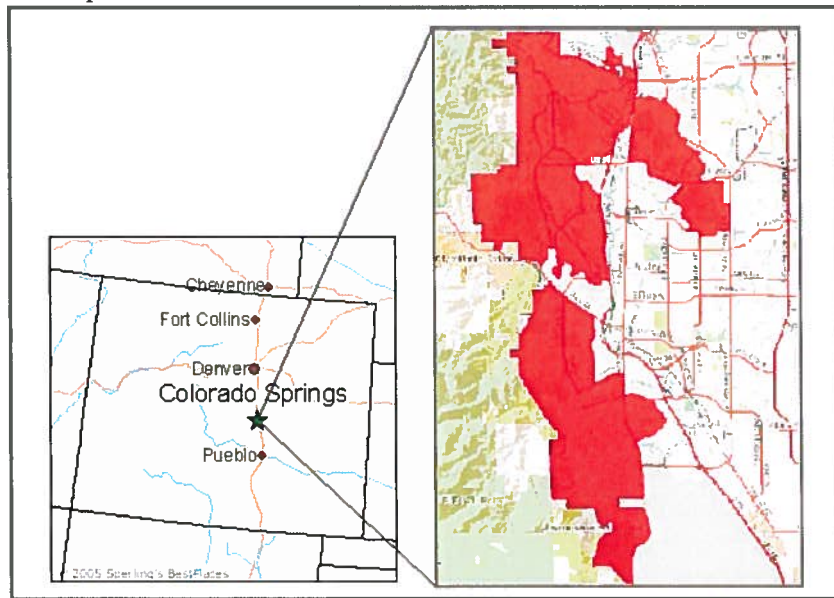


Figure 2. Colorado Springs Wildland Urban Interface



As the City of Colorado Springs sits at the foot of Pikes Peak, most of the wildland urban interface is located in foothills, with long narrow drainages and ridgelines. Throughout the interface, slopes range from flat to 45%. Currently, as defined in the Hillside Ordinance, no structures are built on slopes greater than 25%. Elevations range from 6,035 to 7,200 feet above sea level.

Historical Fire Regime

Colorado Springs has a mixed severity regime of frequent, low intensity fires with infrequent high intensity fires. Although large fires are less frequent, the city has had several wildland fire fatalities and millions of dollars in property loss. In 1950, the Camp Carson burn claimed 9 lives including 8 soldiers and a 14-year old volunteer. In 2008 on the Fort Carson TA 25 Fire, there was a single fire fighter fatality as a result of an aircraft accident. Other fires resulting in property loss or damage include the Mesa Fire in which a home was destroyed, the Westwood fire in which an outbuilding was lost and the Camp Carson Burn during which there was more than \$3 million in property damages.



Figure 3. Newspaper headline and photos of the 1950 Camp Carson Burn. (Source: Gazette Telegraph and Pikes Peak Library Photo Archives.)



Several large fires have occurred in and around Colorado Springs including the Big Burn of 1854, the Cheyenne Mountain Fire of 1890 and the Camp Carson Burn of 1950. Recent fire history includes the Westwood Fire in 2005 (35 acres), the Manitou Incline Fire in 2007 (30 acres) and the Coronado Fire in 2009 (12 acres). Historical fire occurrence includes large fires every 50 -75 years, with smaller, more frequent fires every 2-4 years. Tree ring data collected in and around Colorado Springs shows a more frequent fire regime prior to settlement; on average fires occurring every 17-35 years.

Current Conditions

The Colorado Springs wildland urban interface is predominantly Ponderosa pine with Gambel oak understory. There are several areas with mixed conifer stands including North Cheyenne Canyon, Cheyenne Mountain Zoo and Blodgett Open Space. Other vegetation types include short grass prairie with yucca and prickly pear cactus as well as pinyon-juniper stands. There are isolated pockets of beetle-kill in the city as well as areas with mistletoe in the Ponderosa pines. Stand density in many areas have greater than 300 stems per acre, where traditionally stand densities have ranged between 75-150 stems per acre.

Fire behavior fuel models represented in the wildland urban interface include:

- Short Grass (Fuel Model 1)



- Pine with grass understory (Fuel Model 2)



- Intermediate brush (Fuel Model 5)



- Timber Model, light surface fuel load (Fuel Model 8)



- Timber Model, heavy surface fuel load (Fuel Model 10)



Desired Conditions

Desired conditions around structures include 10 foot clearance with mitigation (limbing, thinning and removal) out at least 30 feet or to the property line, whichever comes first. Homeowners can extend beyond 30 feet as long as it is still on their property; 30 feet is the minimum recommendation. In adjacent open spaces and parks, stand management is intended to reduce the number of stems per acre as well as removing dead and diseased individuals, not clear cutting or putting in fire breaks.

In adjacent areas and open spaces, specifications for desired conditions include:

- Manage for less than 20% mortality in the timber and brush
- Reduce stand density to 50 – 150 stems per acre
- Remove ladder fuels by limbing and thinning
- Create separation between oak clumps by at least 10 feet (or 1 ½ times the height of the fuels)
- Retain a minimum of 2 snags per acre for wildlife, as available (minimum of 6 inch diameter at breast height)
- Thin out understory regeneration in mixed conifer and manage for mature pine overstory

Wildfire Hazard Risk Assessment

The Wildfire Hazard Risk Assessment for Colorado Springs was determined using the Wildfire Hazard Information Extraction model (WHINFOE). WHINFOE processes 25 weighted values with fire behavior modeling to determine the risk rating at the parcel level. The model inputs are derived using Geographic Information Systems (GIS) and collected data. The input factors range from structural characteristics to fuels and topography. Wildfire risk ratings are not a guarantee of the ignitability or survivability of the structures, but instead are a statement of relative risk. It is also important to note that the risk assessment is not an operational model and is not intended to be used as a tactical or decision making tool during a wildfire event.

In Colorado Springs there are 35,360 individual parcels identified as at-risk in the wildland urban interface. There are 5 adjective risk ratings that range from LOW to EXTREME. Homeowners can access their individual wildfire risk ratings at <http://csfd.springsgov.com>. The initial data collection of the wildfire risk ratings was made in 2000, with updates as homeowners made modifications and upgrades. Maintenance of the wildfire hazard risk map with reassessments and updated parcel data is done every 10 years. The Wildfire Mitigation Section will update the 35,360 parcels by collecting ground-truth data and updated GIS files, including parcel data (new construction, development and subdivision.)



Neighborhoods Identified in the Wildland Urban Interface or having wildland characteristics:

1. Bradford Heights
2. Broadmoor
3. Broadmoor Bluffs
4. Broadmoor Resort Community
5. Canyons at Broadmoor
6. Cedar Heights
7. Chatham
8. Cheyenne Canyon
9. Country Broadmoor
10. Country Club
11. Crescent
12. Discovery
13. Eagle Rock
14. Erindale
15. Erindale Heights
16. Friendship
17. Garden Ranch
18. Gold Camp
19. Golden Hills
20. Greencrest
21. Highland Oaks
22. Highland Terrace
23. Hillside
24. Holland Park
25. Hunters Point
26. Kissing Camels
27. La Strada
28. Mesa
29. Mesa Point
30. Mountain Shadows
31. Oakmont
32. Oak Valley
33. Panorama
34. Peregrine
35. Perfect View
36. Pinecliff
37. Pine Terrace at Broadmoor
38. Pinon Valley
39. Pleasant Valley
40. Quail Ridge Point
41. Raven Hills
42. Rustic Hills
43. Sanctuary at Peregrine
44. Skyway
45. Skyway Heights
46. Sondermann



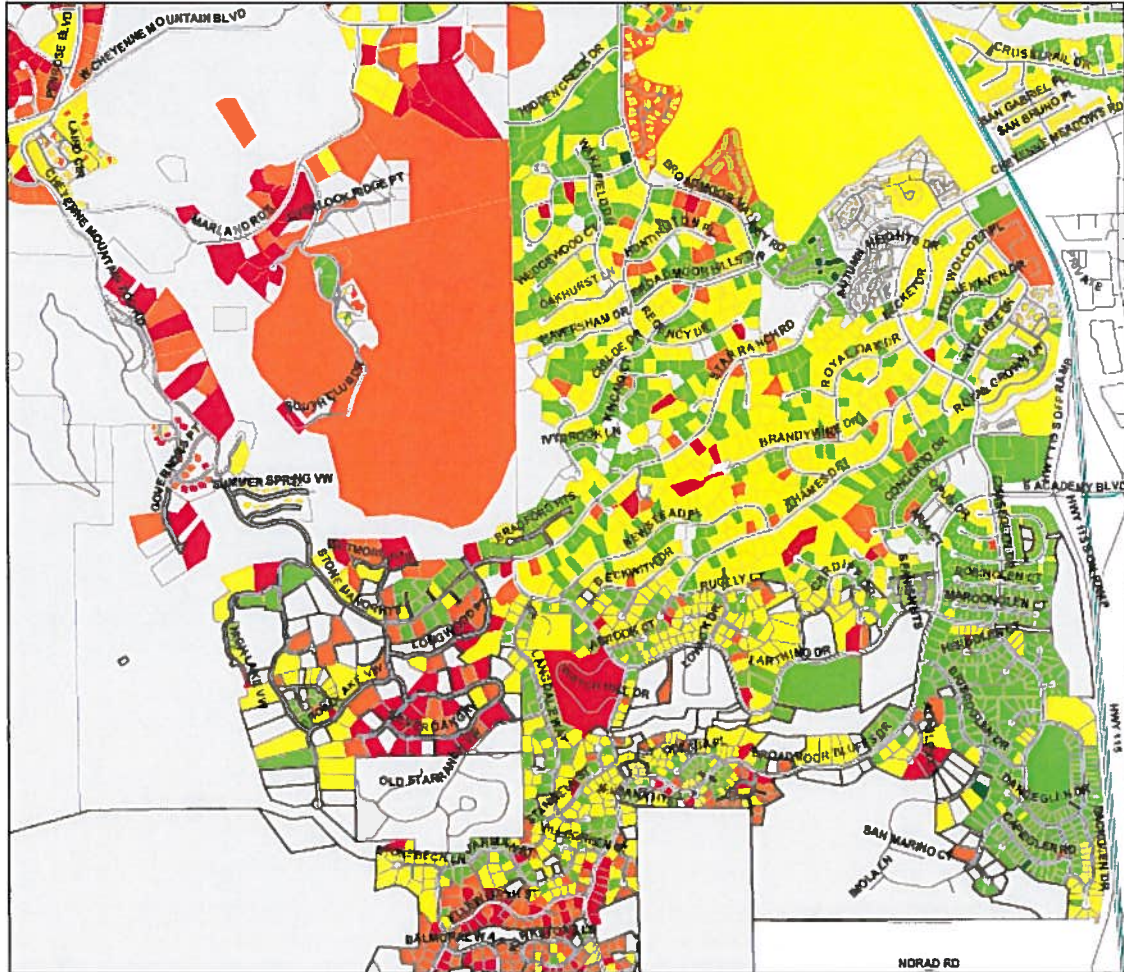
47. Spires
48. Star Ranch
49. Stonebridge
50. Stratton Forest
51. Stratton Pines
52. Stratton Preserve
53. Sunset Mesa
54. Top of Skyway
55. University Park
56. Village at Comstock
57. Village at Erindale
58. Villages at Peregrine
59. Village at Skyline
60. Village Seven
61. Woodmen Oaks
62. Woodmen Oaks Estates
63. Woodmen Valley

The CSFD Wildfire Risk Rating maps show wildfire risk at the lot level and include homeowner associations, community associations, subdivisions and the neighborhood groups listed. Some areas identified outside of the wildland urban interface or the hillside have also been included as needing to address wildfire risk. Those neighborhoods identified as wildland urban interface consist of natural fuels with topographical features. Although there are neighborhoods that do not have all the criteria necessary to meet wildland characteristics, they may have certain fuels (either addressed as immediate or as an adjacency) that increase the risk of a wildland fire (e.g. grassy areas, oak brush or mature conifers in the landscaping.) See Figures 3 through 15 for neighborhood scale risk assessments of those neighborhoods identified in the wildland urban interface.





CSFD Wildfire Risk Ratings
Point at Cheyenne Mountain/Broadmoor Vista
Broadmoor Bluffs/Mountain Oaks
Country Broadmoor/BRC



0 500 1,000 2,000 3,000 4,000 Feet



Wildfire Risk Ratings

Major Streets

RISK CATEGORY

- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 3. Broadmoor Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Cedar Heights

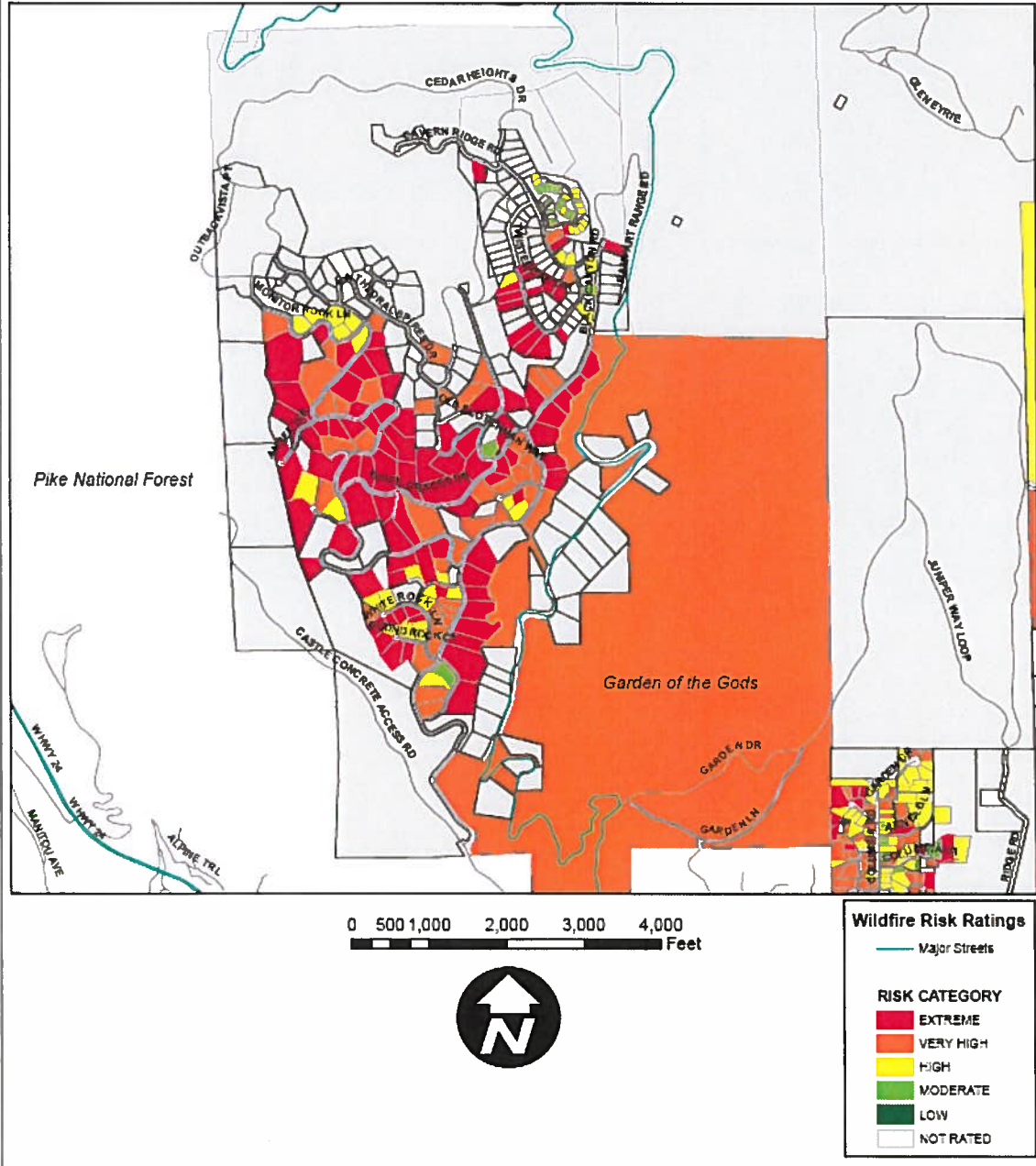
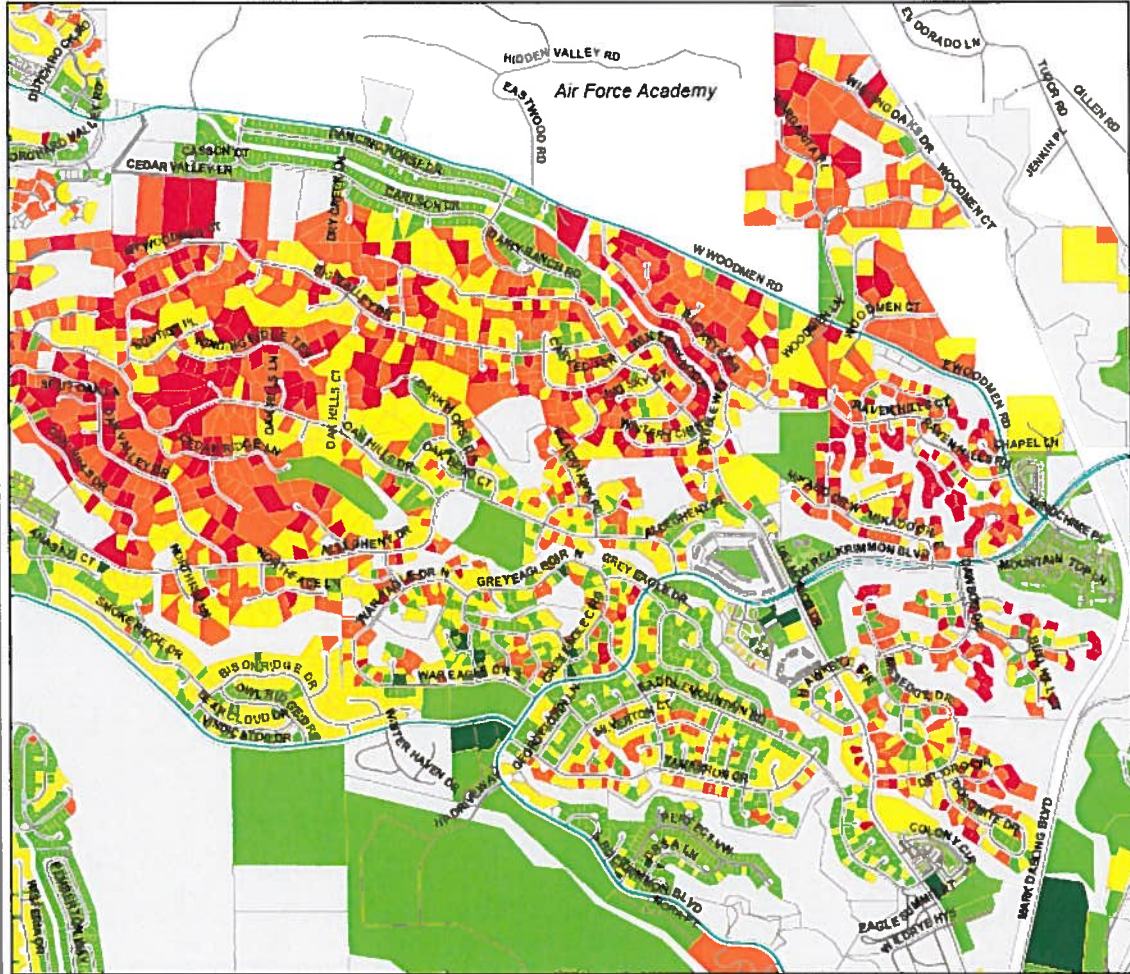


Figure 4. Cedar Heights Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings
Comstock/Discovery
Golden Hills/Raven Hills
Woodmen Oaks/Oak Valley



0 500 1,000 2,000 3,000 4,000 Feet



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

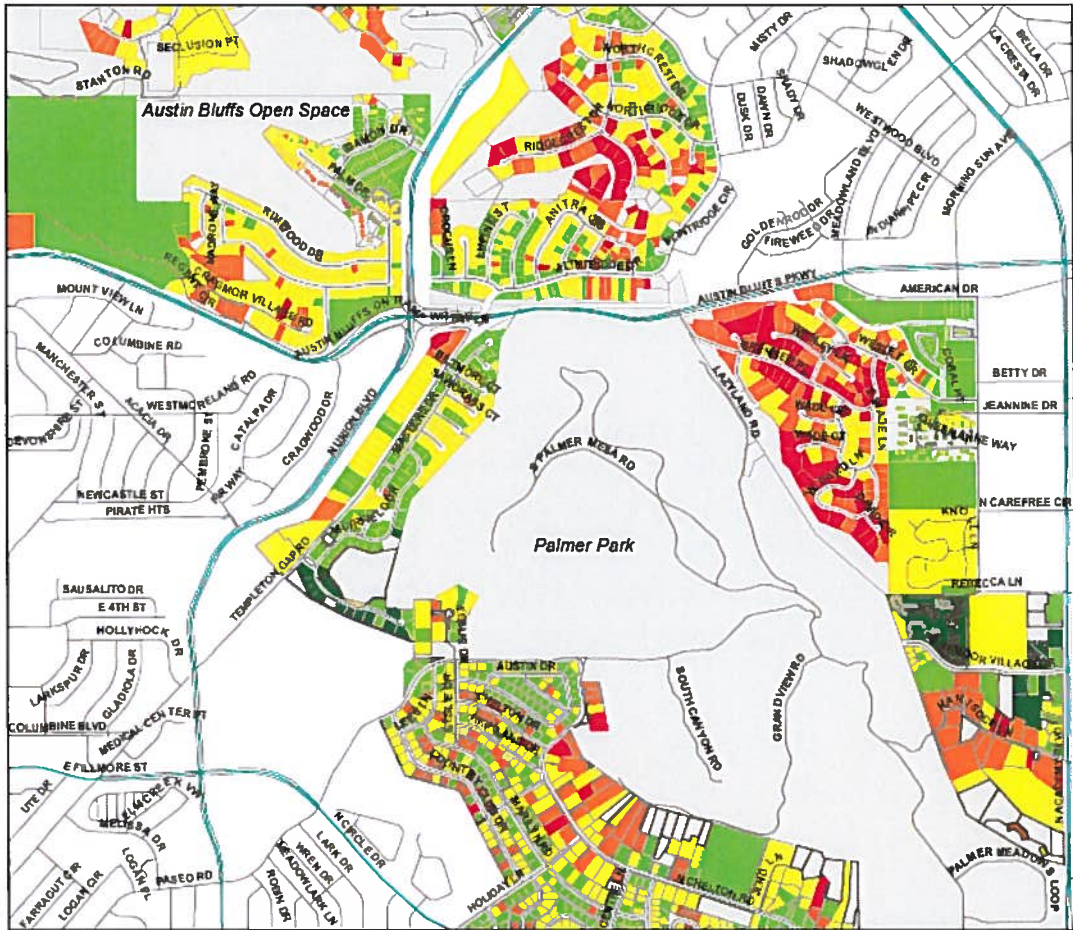
- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 5. Rockrimmon Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Greencrest/Cragmoor Village



0 500 1,000 2,000 3,000 4,000 Feet



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 6. Palmer Park / Austin Bluffs Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Kissing Camels Park

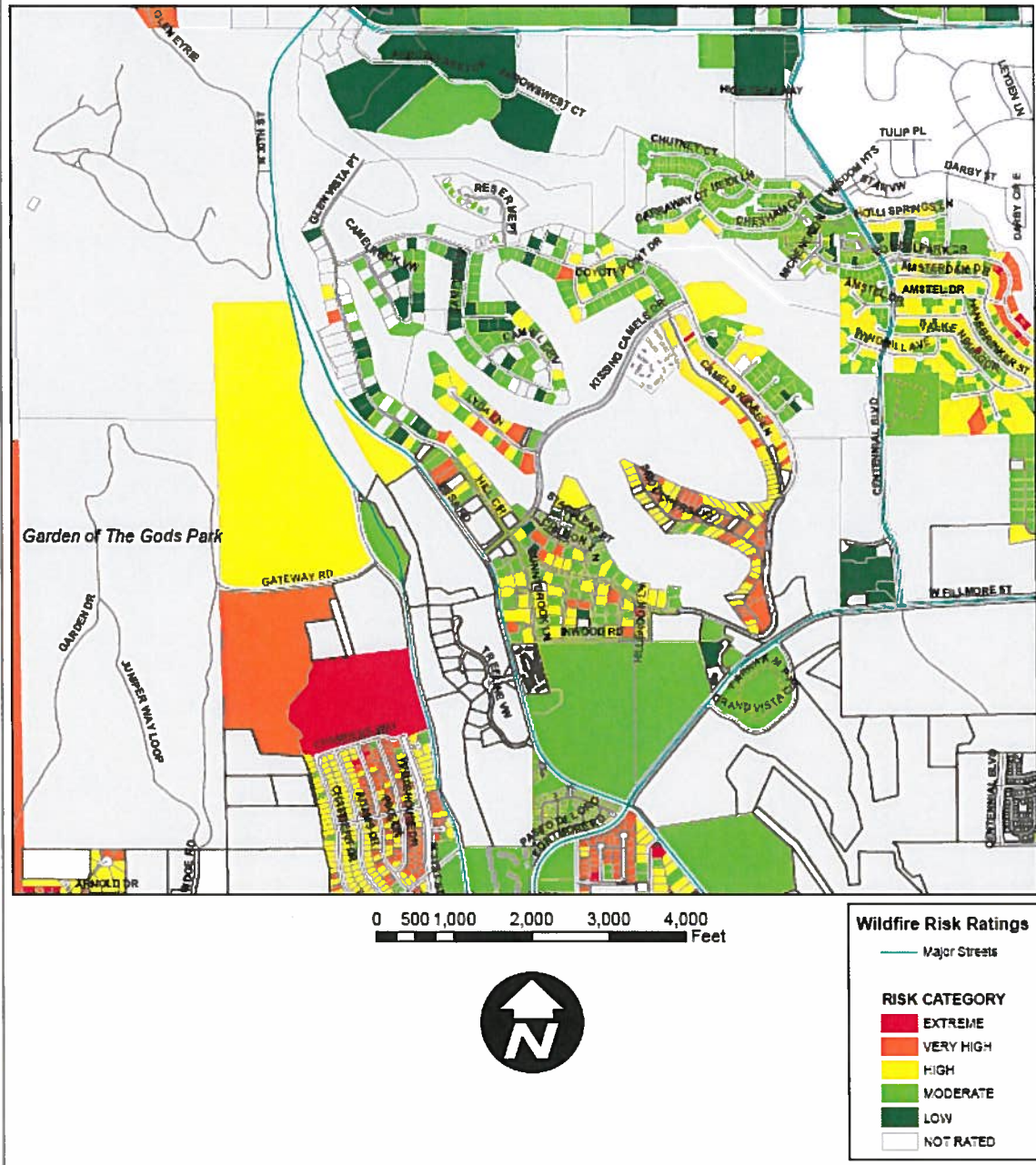
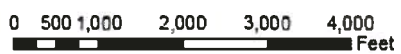
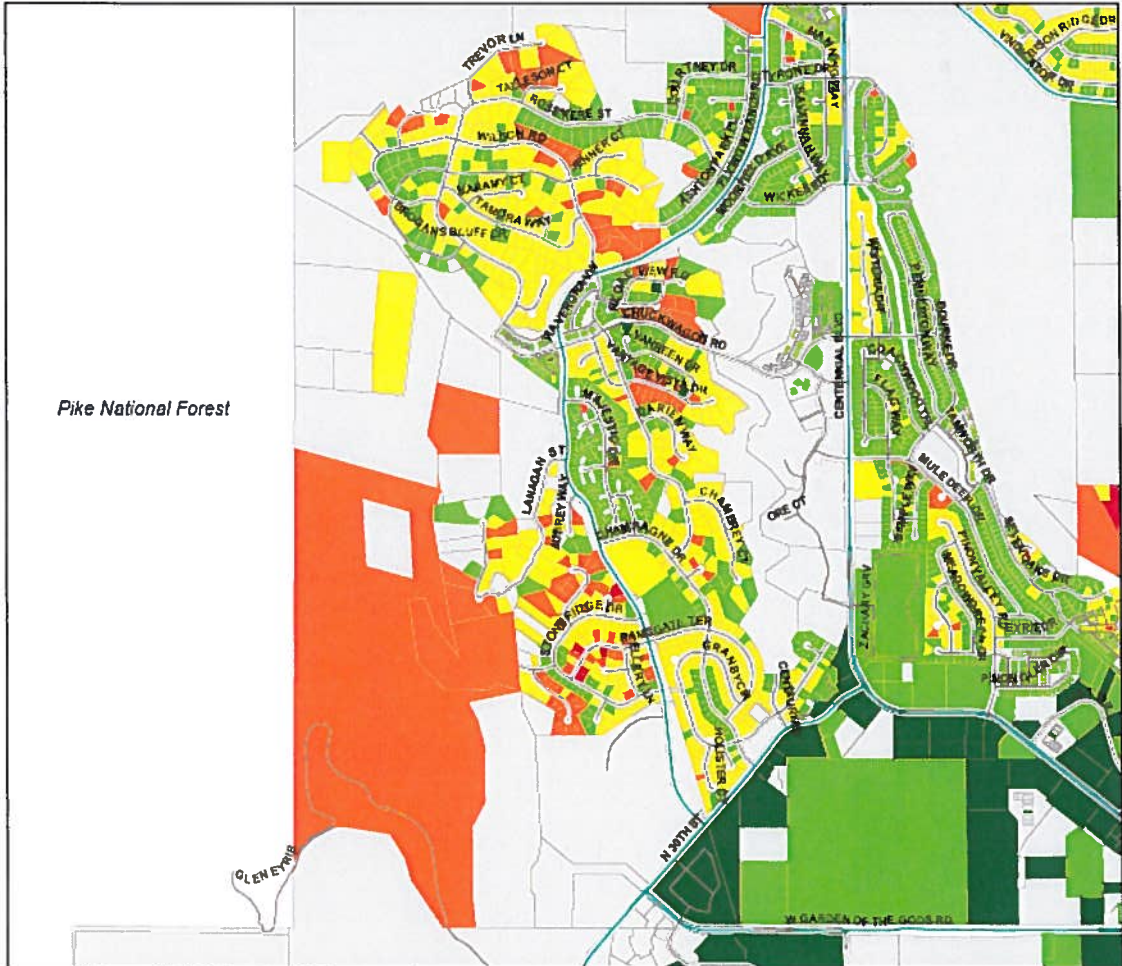


Figure. 7 Kissing Camels Park Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Mountain Shadows



Wildfire Risk Ratings

- Major Streets

RISK CATEGORY

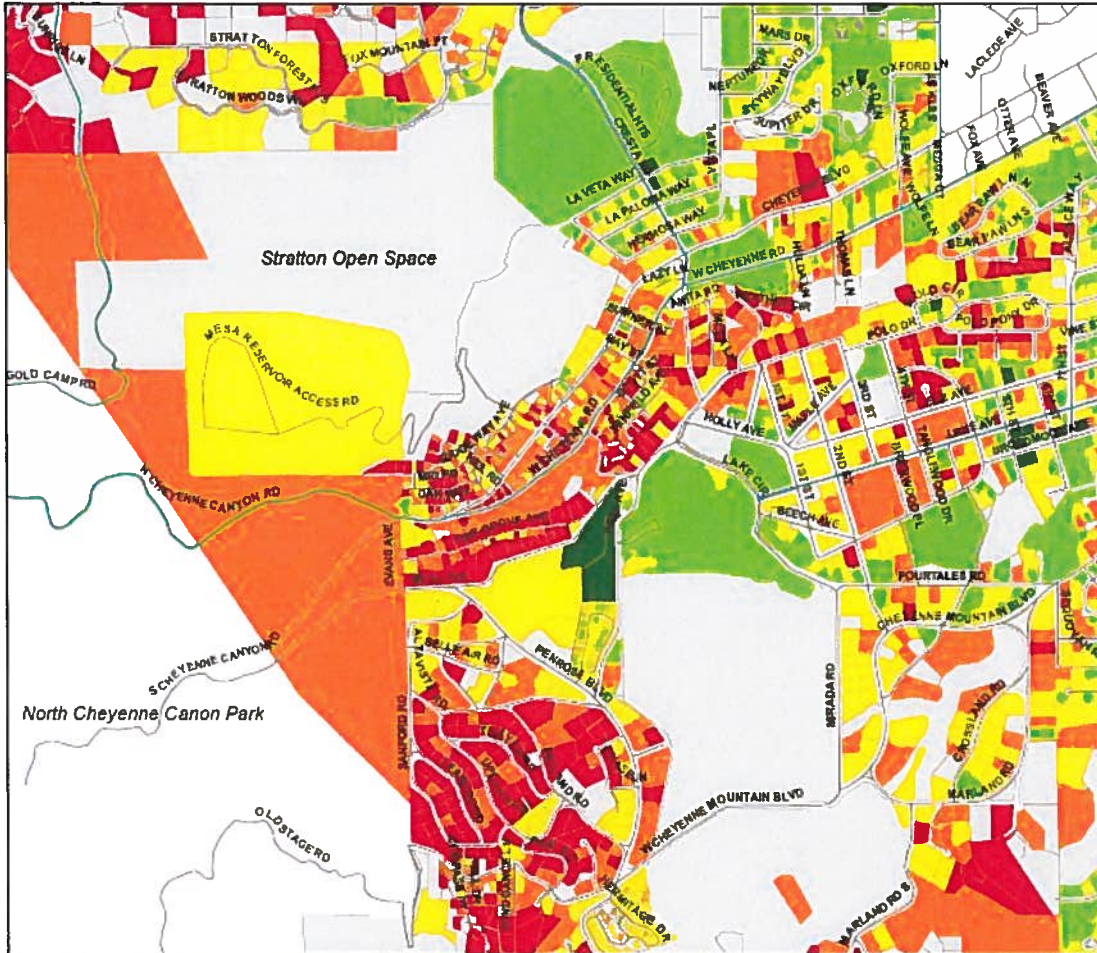
- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 8. Mountain Shadows Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings North Cheyenne Canyon



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED



0 500 1,000 2,000 3,000 4,000 Feet

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Figure 9. Cheyenne Canyon Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Peregrine/Hunters Point

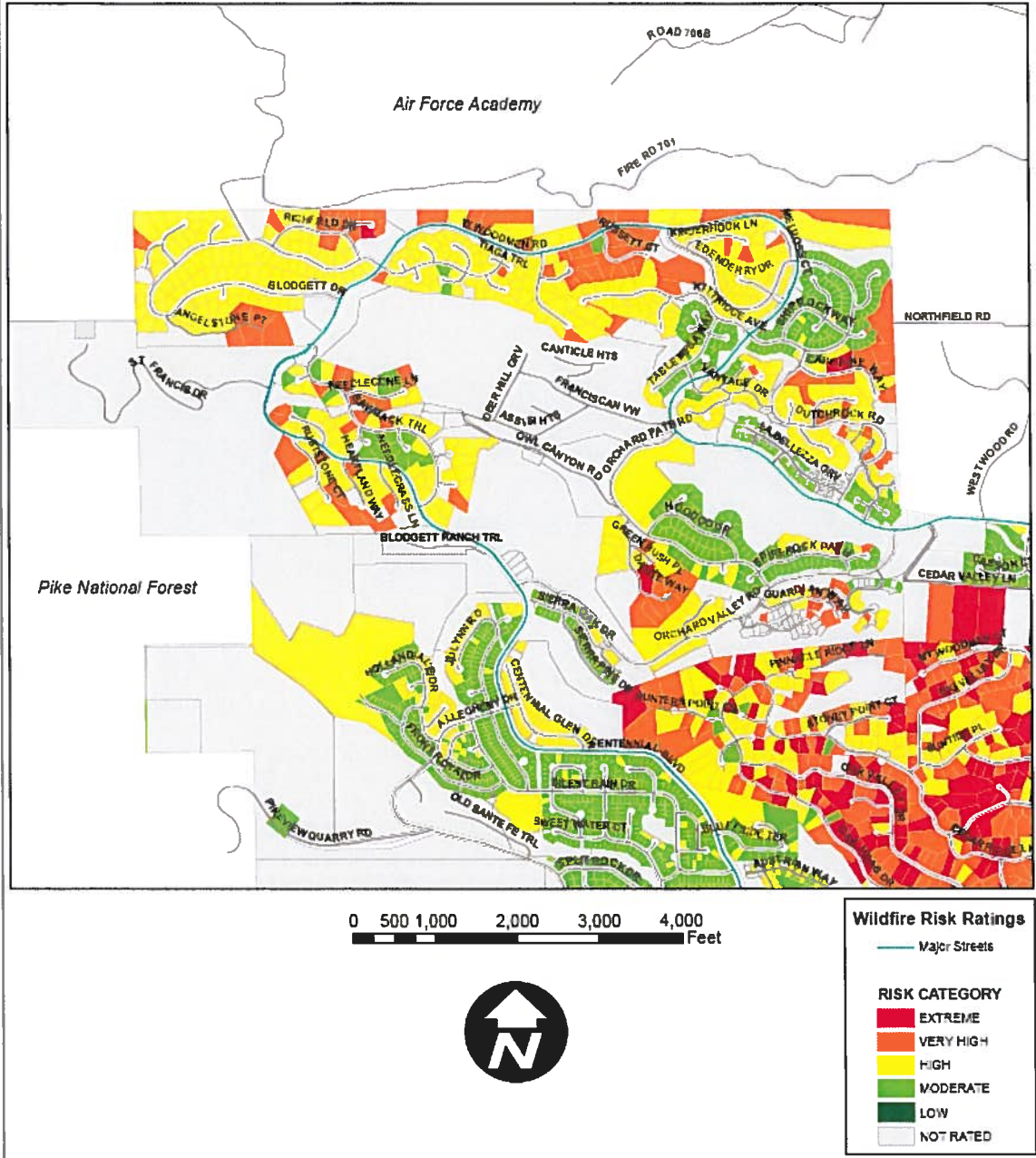
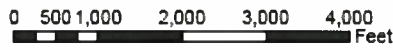
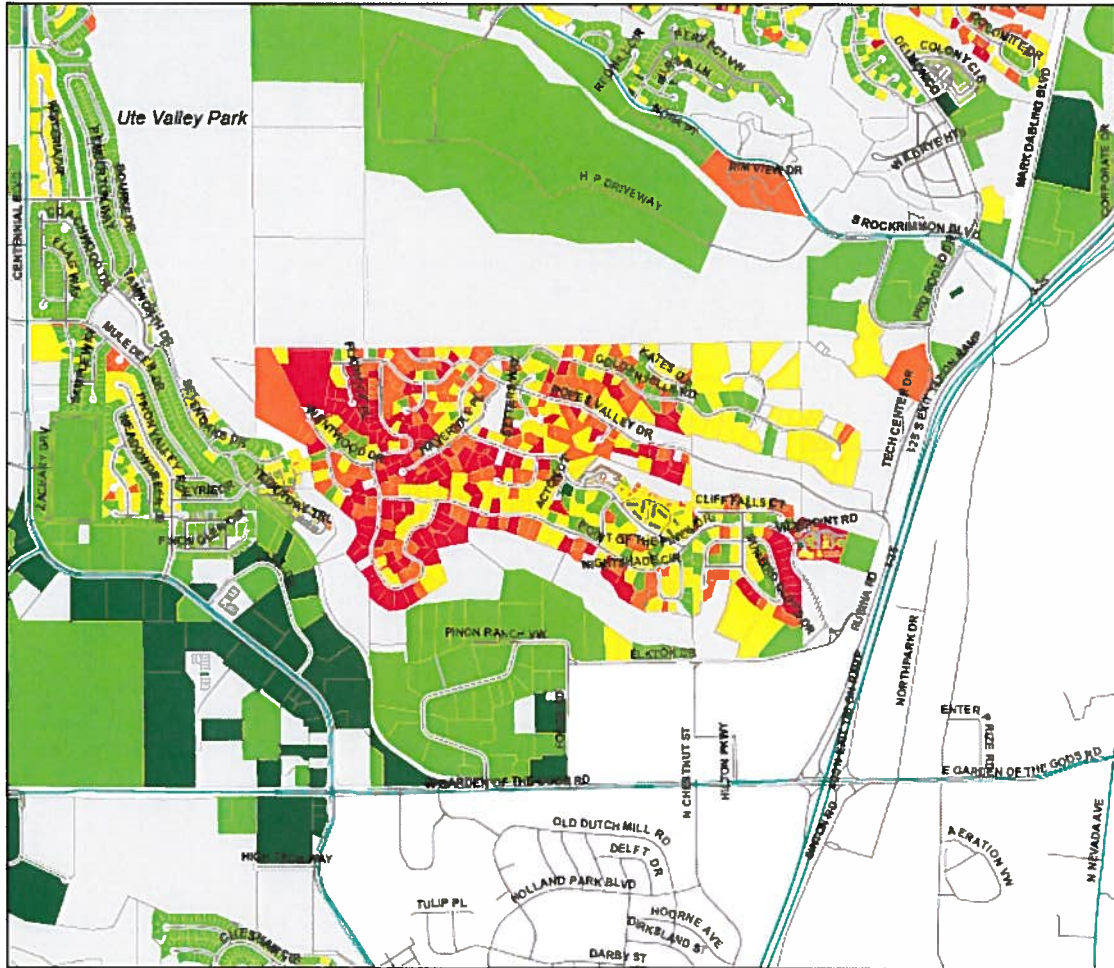


Figure 10. Peregrine / Hunters Point Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Pinecliff



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 11. Pinecliff Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Pleasant Valley/Panorama Friendship/Crescent/Mesa



0 500 1,000 2,000 3,000 4,000 Feet



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

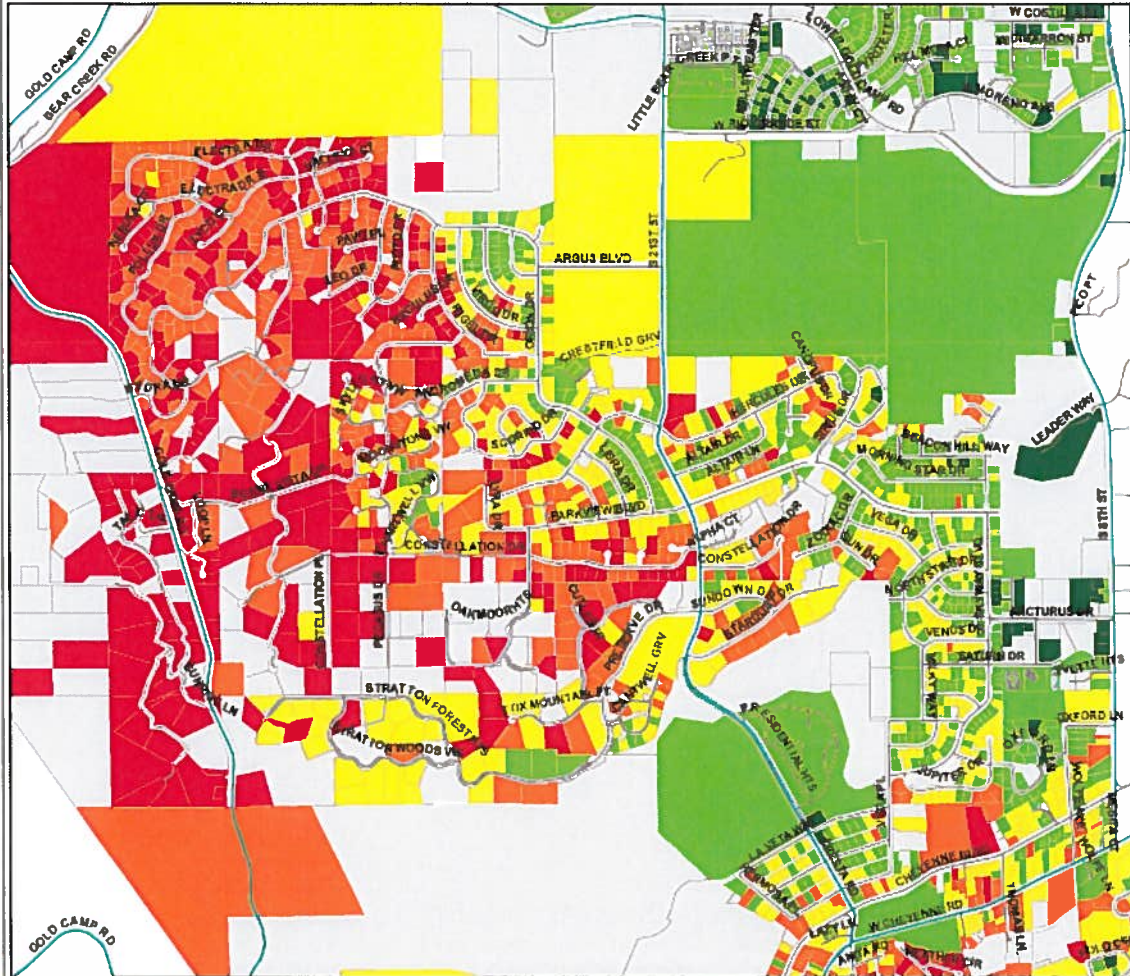
- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 12. Mesa Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings
 Skyway/Top of Skyway/Skyway Heights
 Stratton Preserve/Stratton Pines/Gold Camp



0 500 1,000 2,000 3,000 4,000 Feet



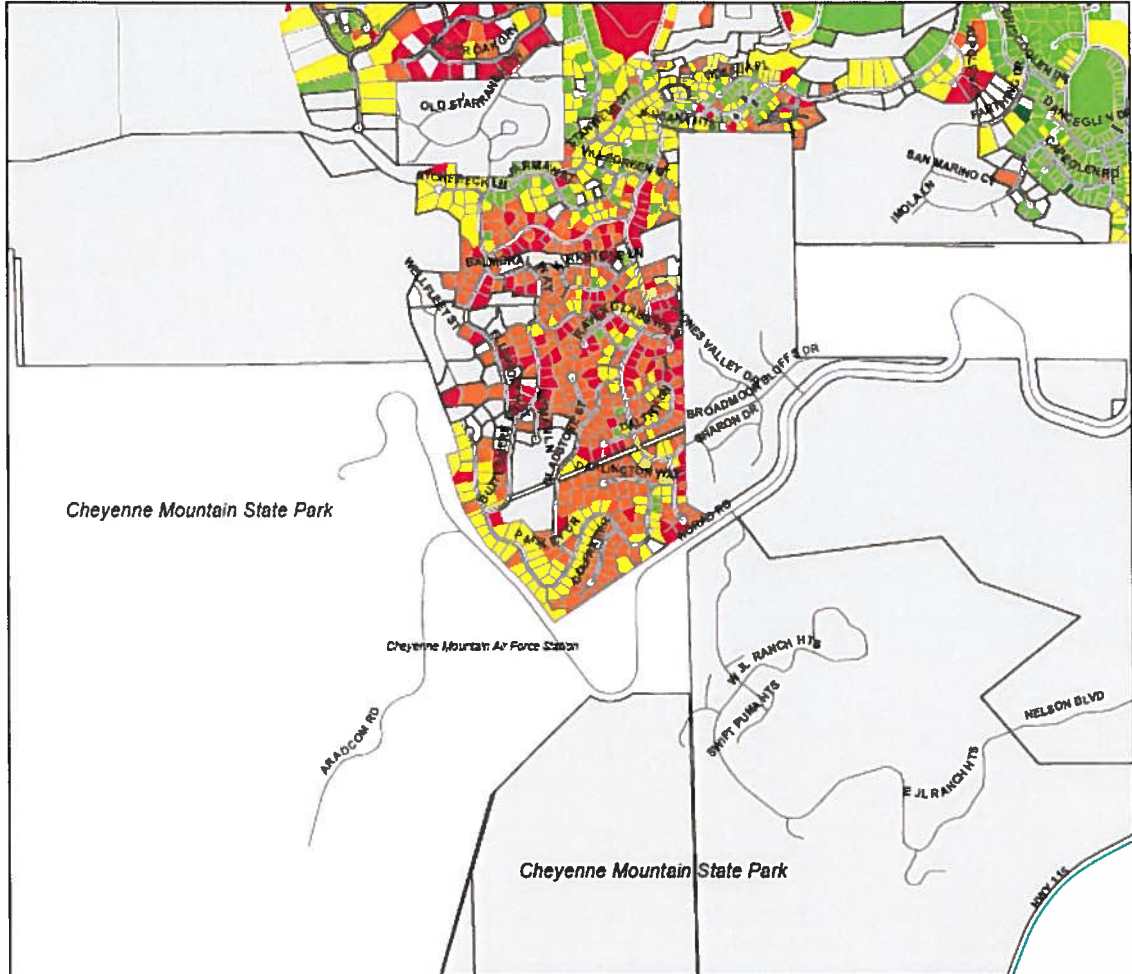
Wildfire Risk Ratings	
	Major Streets
RISK CATEGORY	
	EXTREME
	VERY HIGH
	HIGH
	MODERATE
	LOW
	NOT RATED

Figure 13. Skyway / Stratton Area Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings Spire



Wildfire Risk Ratings

Major Streets

RISK CATEGORY

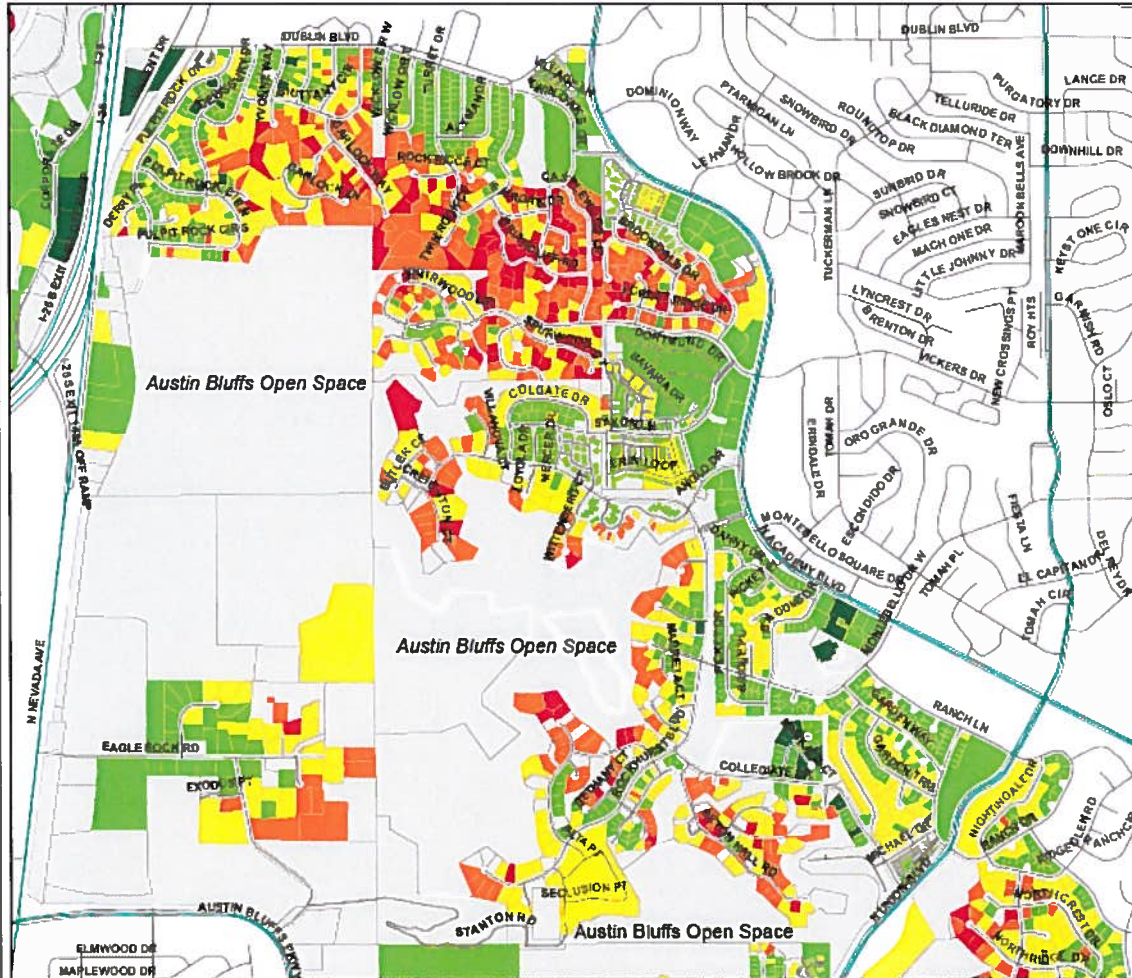
- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 14. Spire Wildfire Risk Assessment Map





CSFD Wildfire Risk Ratings University Park/Valley at Erindale Erindale Heights/Erindale Park/Eagle Rock



Wildfire Risk Ratings

— Major Streets

RISK CATEGORY

- EXTREME
- VERY HIGH
- HIGH
- MODERATE
- LOW
- NOT RATED

Figure 15. Erindale / University Park Area Wildfire Risk Assessment Map



Wildfire Mitigation Section Services

The Colorado Springs Fire Department Wildfire Mitigation Section, as part of the Division of the Fire Marshal, provides many services to the community to help reduce wildfire risk. These program features align with the Division's mission statement:

"To promote a safer community through hazard mitigation, fire prevention, fire code development and enforcement, fire investigation, public education, hazardous materials regulation, and wildland fire risk management."

Reducing wildfire risk depends on commitment from every level of the community: from federal, state and local government agencies to residents and non-profit agencies. The tagline *"Sharing the Responsibility"* emphasizes the need for collaboration between agencies and the public.

Community Education and Outreach

As part of the tagline *"Sharing the Responsibility,"* the Wildfire Mitigation Section works closely with neighborhood organizations and homeowner's associations. The education program for existing construction works without an enforcement posture; homeowners are given the information and must decide on an acceptable level of risk. The intent of educating and involving residents at the homeowner level is to engage them so they understand their risk and how it impacts their neighborhood. Because a wildland fire is a landscape scale event, their risk also influences their neighbors. The risk assessment model is not only designed to educate homeowners, but to motivate them to take action. The tagline *"Sharing the Responsibility"* emphasizes the need for commitment and collaboration at every level of involvement from the homeowner to the local, state and federal agencies.

There are several methods to deliver the wildfire mitigation message to homeowners. Neighborhood meetings are offered free of charge. During these meetings citizens learn about fire behavior, homeowner guidelines and evacuation tips in the event of a wildfire. As part of the outreach, free onsite consultations are also provided where residents receive specific guidelines as to how they can mitigate wildfire risk through vegetation management and structural retrofits on their property. The interactive website, where homeowners and residents can access their risk rating, also has tips and guidelines for mitigation around their property. Several forms of print media are also used as educational tools including brochures and signs with homeowner information (see Appendix I for the homeowner brochure).

In addition to traditional onsite consultations and neighborhood meetings, the Colorado Springs Fire Department is developing a lecture series in response to request for additional educational opportunities. The Wildfire Mitigation Section plans to offer several lectures annually covering wildfire topics ranging from fire behavior and fire effects to forest health and basic arbor care. In addition to neighborhood events, the Wildfire Mitigation Section will also host an annual, city-wide Wildfire Mitigation season kick-off event each spring. The event will include vendor booths, agency cooperator booths and champion recognition to kick-off awareness of the field season.



Fire danger signs are also a good tool for increasing wildfire awareness and notifying residents about fire danger, burn restrictions and burn bans. Fire danger signs are slated for city fire stations, neighborhoods and park entrances. Priority for sign installation: 1) fire stations in the wildland urban interface, 2) park entrances, 3) remaining fire stations, and 4) neighborhoods.

Considerations for sign locations include:

- Visibility
- Target audience
- Traffic
- Fire history
- Wildfire risk
- Fuel conditions
- Natural resource value
- Historic value
- Firewise Communities USA designation

Sign maintenance will be the responsibility of the Wildfire Mitigation Section working with individual fire stations, neighborhood designees and the Colorado Springs Parks, Recreation and Cultural Services. Along with posting current fire danger, signs will also have riders attached with pertinent messages including burn restrictions, burn bans and fire safety messages.

Fire Danger Sign Installation (as funding allows)

1. Station 12
2. Station 9
3. Station 4
4. Station 3
5. Station 13
6. Station 16
7. Station 18
8. Station 5
9. Garden of the Gods
10. North Cheyenne Cañon
11. Palmer Park
12. Stratton Open Space
13. Ute Valley Park
14. Blodgett Open Space
15. Red Rock Canyon
16. Station 11
17. Station 19
18. Station 17
19. Station 15
20. Station 8
21. Station 6
22. Station 14
23. Station 7
24. Station 10
25. Station 20
26. Station 1



- 27. Station 2
- 28. Colorado Springs Fire Wise Communities/USA
 - a. Cedar Heights
 - b. Country Broadmoor
 - c. Greencrest
 - d. Raven Hills
 - e. Hunters Point
 - f. Top of Skyway
 - g. Village at Comstock
 - h. Woodmen Oaks
 - i. Golden Hills
 - j. Skyway

Stewardship Program

The Colorado Springs Fire Department is not a land management agency and therefore has no authority or responsibility for property management. However, we are responsible for improving public safety and mitigating risk to life and property. Work is completed through stewardship with property owners on private and public property, common areas and open spaces. Signed stewardship agreements must be in place before any work can begin including project planning, obtaining funding, structural upgrades, neighborhood chipping or vegetation removal. Stewardship agreements outline the responsibility of the Colorado Springs Fire Department and funding availability, as well as property owner liability and participation requirements (see Appendix II, stewardship agreement). The stewardship agreement is intended as a handshake between the fire department and the property owner. The Wildfire Mitigation Section will not incur costs on behalf of the owner without notification or prior consent. Likewise, project implementation is based on funding availability only.

Fuels Management

The Wildfire Mitigation Section has the responsibility and authority to assist with mitigation efforts. This coincides with the Colorado Springs Fire Department's responsibility to respond operationally. If property is within city boundaries or threatens any city asset other than federal land, CSFD has the responsibility to work with the owner or agency responsible for maintaining that property to mitigate wildfire risk. City assets can include utilities, watershed, communication sites or infrastructure. Implementation is based on several factors including: wildfire risk rating, willingness to participate in the program, environmental assessment, cultural and historical assessment, slope, access, fuel loading, forest health and mortality, values at risk, ownership, funding and resource availability.

Fuels management has a very high benefit to cost ratio. Nationally, these types of projects have a 4:1 benefit cost ratio, meaning that for every \$1 spent on mitigation, there is a savings of \$4 for operational response and recovery. Analysis of Colorado Springs projects for grant funding has shown that every dollar spent on fuels mitigation projects results in a savings of \$12 - 24 in a wildfire event.



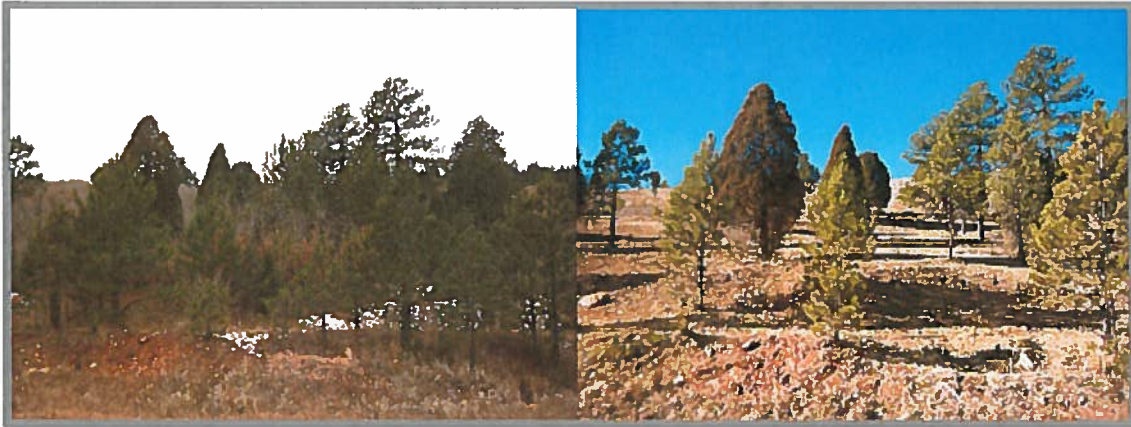


Figure 16. Photo point 1: Fuels Mitigation project at Cedar Heights (Untreated / Treated.)

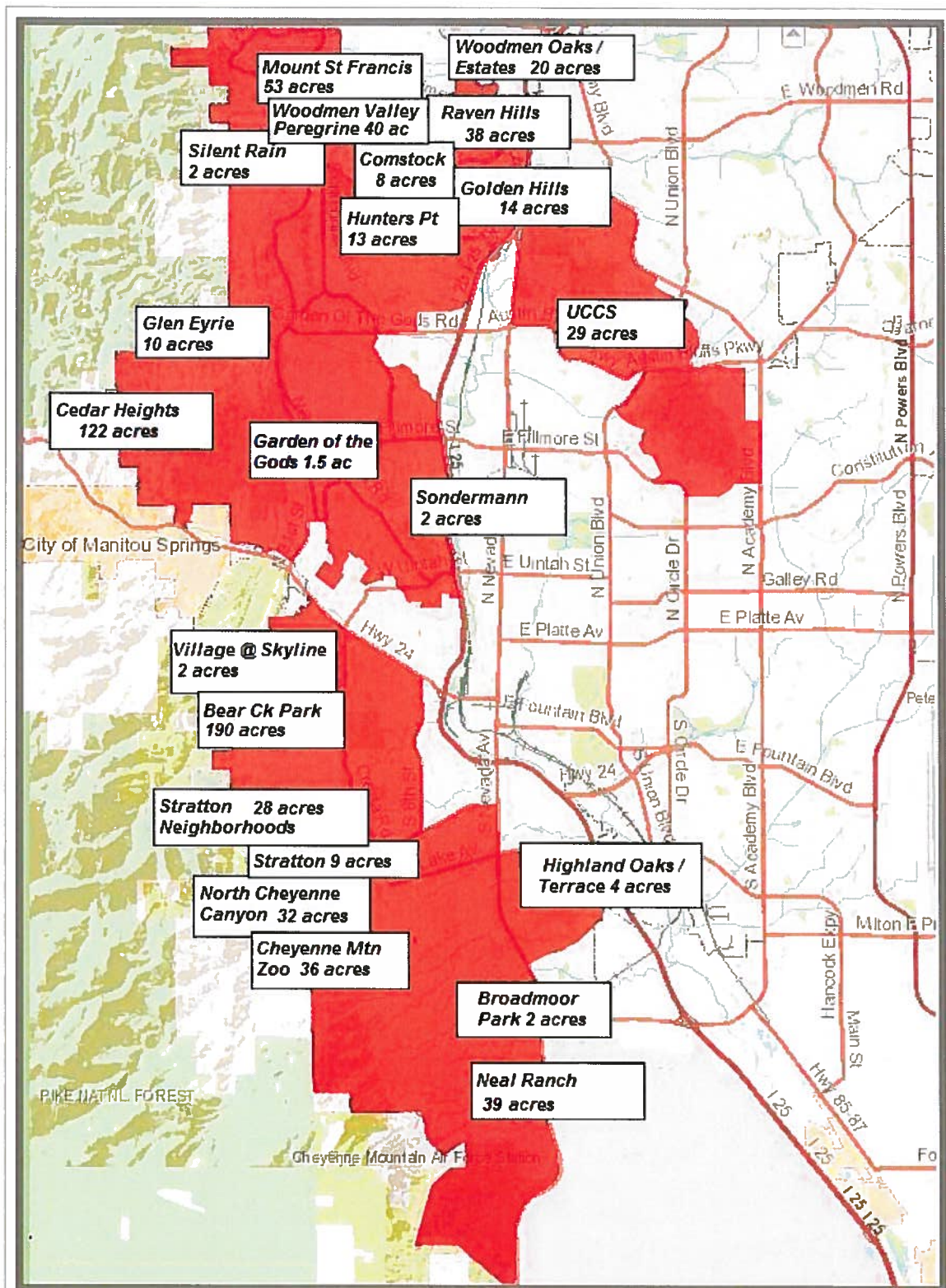


Figure 17. Photo point 7: Fuels Mitigation project at Cedar Heights (Untreated / Treated.)

Colorado Springs treats on average more than 900 acres annually between project acres, maintenance, prescribed burning, volunteer projects and neighborhood chipping. For a map of completed fuels management projects see Figure 18. Fuels mitigation projects adjacent to at-risk neighborhoods reduce potential fire behavior, but also act as an educational tool for the residents. Those areas that are visible from roadways serve as an excellent example to homeowners how mitigation can look without clear cutting their property. Additional benefits include providing for fire fighter safety and improving wildlife habitat.

Cross-boundary projects include shared boundaries and city assets with US Forest Service, Air Force Academy, El Paso County and Colorado Springs Utilities (Pikes Peak Watershed.)





**Colorado Springs Wildfire Mitigation
Completed Project Acres 2004-2010**

Figure 18. Completed Fuels Mitigation Projects from 2004 – 2010



Neighborhood chipping is part of *“Sharing the Responsibility.”* The Colorado Springs wildland urban interface is truly an urban setting; many households do not own a truck for hauling debris to a collection site. The neighborhood chipping service offers homeowners free curbside chipping and hauling when they do mitigation work on their own property. The curbside chipping prevents the need for a dedicated collection site. The Colorado Springs Fire Department works closely with city Code Enforcement to ensure that the slash does not block sidewalks or roadways. Chipping crews follow a safety plan that includes traffic cones and signs for working in high traffic areas.

Neighborhood chipping participation criteria includes a minimum of 12 neighbors participating. This is done to engage neighborhoods and educate them on wildfire mitigation concepts. The intent of neighborhood chipping is not debris removal, landscaping or cleanup. Rather, the intent is to reduce the risk of wildfire, modify fuels adjacent to structures and reduce fire behavior in the event of a wildfire. With a 2-person chipping crew working in stewardship with 63 homeowner associations, we are unable to respond to individual requests for chipping; this participation requirement also helps with scheduling and geographic coordination. Homeowners must also attend a wildfire mitigation meeting or schedule a free on-site consultation to participate. There is no fee for the service which is funded 100% from voter approved Public Safety Sales Tax. See Appendix III for a neighborhood chipping flier.

In addition to the CSFD Wildfire Mitigation fuels crew and neighborhood chipping crew, mitigation work is also contracted out to private tree service companies. Contracting standards include using licensed and insured contractors only. Adding contracting of crew projects allows execution of simultaneous projects without additional salary or capital investment of fleet and equipment.

Development Review

As part of the effort to address wildfire risk on the front end of new construction, the Division of the Fire Marshal offers free Hazard Risk Assessments for development plans in the wildland urban interface. When development plans are routed through the Fire Protection Engineer for design review and the site is identified as located in the wildland urban interface, a risk assessment with recommendations are attached to the plans and put into comments. As an added value from the Fire Marshal’s office, this service saves money and turnaround time. Recommendations include vegetation and landscape designs as well as structural components.

Hazardous and Non-Hazardous Materials Permitting

For any activities that increase wildfire potential, the Division of the Fire Marshal in Colorado Springs issues Hazardous and Non-Hazardous Materials activity permits. These permits are required for activities that include public fireworks displays, pyrotechnics, blasting, prescribed burning, bonfires and rockets. The permit fee is based on inspection and processing.

Monitoring and Fire Danger

Wildfire detection is not an issue in a city with more than 400,000 city residents and 20 fire stations. The city does not post lookouts, however during VERY HIGH and EXTREME days CSFD may send out hire-back patrols. These patrols serve not only for detection, but allow for pre-positioning in order to improve response time. These patrols also serve to make public contact and provide visibility to remind residents of the heightened wildfire danger.



The Wildfire Mitigation section monitors fire weather and fuel moistures year round. Using the National Fire Danger Rating System and FireFamily Plus, thresholds are in place based on predicted fire behavior. The fire danger adjective rating for Colorado Springs is posted daily on the fire department website at www.springsgov.com (follow the links to the fire department web page).

Fuels are monitored throughout the growing season on a bi-weekly basis. During burn restrictions or burn bans, wildland fuels are monitored every week. Fuel moisture sampling includes representative species indicative of Colorado Springs. Wildland fuels monitored for fire danger include Ponderosa pine, Gambel oak, herbaceous plants, grasses, dead and downed woody debris, litter and duff. Fire weather is also monitored year round. Outside of the growing season, relative humidity is used as an indicator for fine fuel moistures and driving fire danger.

Operational Support

The Wildfire Mitigation Section works as part of the CSFD Plans Section in a wildfire event. Responsibilities include collecting spot weather data, field observations, fire behavior analysis, Global Position System (GPS) mapping and documentation. The Wildfire Mitigation Section also serves to provide logistical support.

Burn Ban and Restrictions

The Wildfire Mitigation Section monitors fire weather and fuels in support of the Fire Marshal and the Fire Chief as the authorities having jurisdiction in the City of Colorado Springs for enacting burn restrictions or burn bans. Pre-established thresholds and criteria are in place for determining when to enact burn restrictions or burn bans. These include:

- Fire weather conditions (i.e. winds, relative humidity and temperature)
- Fuel moisture conditions (i.e. live and dead fuels)
- Regional fire activity
- Aircraft availability
- Resource availability
- Cooperator status
- National Preparedness Level
- Holidays

Grant Administration

The Wildfire Mitigation Section relies heavily on federal and state grants for project funding. Grant sources include FEMA Pre-Disaster Mitigation grants, Western States Wildland Urban Interface grants, Healthy Forest Restoration Act stimulus grants and Assistance to Firefighter grants. Grant administration involves project planning, application process, scoping, monitoring, reporting, project oversight, evaluation and closeout. Matching commitment is funded through the Public Safety Sales Tax, soft matching using volunteer labor and homeowner matching. Examples of homeowner matching include neighborhood volunteer projects, structural retrofits, contracted labor and hard cash donations.

Volunteer Program Coordination

Volunteer labor is not free labor; it requires an investment of time and resources. However, volunteers are important for community buy-in, involvement and educational outreach. Volunteer projects bring neighborhoods together and help create a strong sense of community.



Volunteer labor can be a beneficial source of soft match for grants; volunteers and grant projects can be coordinated to meet required matching.

The Wildfire Mitigation Section has had extremely good success with several organizations that provide a great service to their community. These include:

- Colorado Springs Fire Department Explorers Post #1894
- Mile High Youth Corps
- Boy Scouts of America
- Twocor Youth Vocational Education

Volunteer projects include fuels management projects in parks, open spaces, common owned areas and on private property. Projects on private property will be coordinated with the volunteers for those owners who cannot do the work themselves; including those with physical limitations or impairments.

Homeowner Assistance

The Wildfire Mitigation Section works with property owners to provide assistance on private property as funding is available. Emphasis and priority will be given to seniors or homeowners with special needs. An individual stewardship agreement is required before work can be done on private property. Mitigation work may involve the wildfire mitigation fuels crew, contracting or coordinating volunteer projects.

Social Media

Program updates are posted on the Colorado Springs Fire Department webpage at www.springsgov.com, on Facebook at www.facebook.com/csfdpio and Twitter at <http://twitter.com/#!/csfdpio>. These include project information, wildland fire updates and program features. Program features added to the website include a chipping and neighborhood meeting calendar, photo gallery of projects and maps of project areas.

Grass Fire Educational Program

Colorado Springs has identified more than 28,000 acres of wildland urban interface, but the threat of wildfire in grasslands exists throughout the city. Colorado Springs experiences more than 30 grass fires annually. The risk of grass fires occurs year round and impacts all parts of the city. The Colorado Springs Wildfire Mitigation Section works with neighborhood groups and homeowner associations identified outside of the wildland urban-interface to teach grass fire safety. The educational message includes ways to mitigate the risk of grass fires and provide evacuation guidelines. As in the wildland urban-interface, on-site consultations and neighborhood meetings are provided free of charge.

Prescribed Burning

Prescribed burning is another tool in fuels reduction and wildfire mitigation. Although it is not practical in many parts of the city due to large population density, there may be remote areas where it is feasible. Considerations that limit the use of fire include:



- Smoke impact on residents, hospitals, schools and nursing homes
- Risk of escape
- Existing fuel loading
- Critical habitat
- Risk of invasive plants or noxious weeds
- Erosion or slope movement
- Impact on water quality
- Impact on roadways and visibility

Prescribed burning may be beneficial in areas that are remote and where the prescription calls for reintroducing fire. These areas may include steep areas that are not accessible to mechanized equipment. Other prescribed fire opportunities would include areas with specific resource objectives and training fires.

The Wildfire Mitigation Section works with Operations to administer prescribed burns. Support includes public process and outreach, prepping units (layout, line, mapping, GPS and flagging units) and line assignments (lighters, holders and field observers).

Fuel Treatment Options

Efforts to lessen the impacts of the various treatments include education, outreach, rehabilitation, specified operating periods (time of year) and specialized equipment. Treatment options may also include a combination of treatment prescriptions (e.g. hand thinning and pile burning). See Table 1.

Table 1. Fuel Treatments and Resulting Issues

Treatment	Issues							
	Slash	Smoke	Wildlife	Visual	Water	Soils	Cost	Risk
Neighborhood Chipping	x							
Hand Thinning	x						x	
Mechanical	x		x			x		x
Pile Burning		x		x				x
Chemical Treatment	x		x		x		x	x
Understory Burning		x	x	x	x			x



There can be associated benefits as well as detriments for each of the treatment options. Cost benefit analysis goes beyond project expenditures to include social and political capital. Hand thinning can be species selective with little to no ground disturbance. It also tends to be visually appealing as slash is chipped and hauled away or scattered onsite. Hand thinning tends to be a costly method of removal, but where there are adjacency issues to neighborhoods and the site is used as a demonstration area, then hand thinning is cost effective in terms of visual quality. Mechanical treatment can drive down the treated cost per acre, but can also result in some soil disturbance. Contracting specifications have limited disturbance on past projects. Mechanical treatment is the recommended option for oak brush in areas with high mortality. Chemical treatment can be used in conjunction with a cutting treatment to prevent re-sprouting of the oak brush. The herbicide application adds to the cost of the treatment and should only be used for complete eradication of the oak brush.

Colorado Springs is located in a naturally occurring wildfire environment. Prescribed fire has not been considered a treatment option in the past because of smoke issues and risk of escape in a densely populated area. These issues can be addressed by identifying project areas that are not directly adjacent to neighborhoods as well as an approved burn plan with a smoke management plan. Pile burning is a very cost effective method (no chipping or hauling costs) and easier to contain. Understory burning can have a greater smoke impact and risk of escape, but can be ecologically sound for areas away from neighborhoods. Understory burning would also require a detailed burn plan with a smoke management plan.

Removal and Utilization

Slash disposal requires consideration for travel time and distance, additional cost, smoke impact, insects, root systems and visual quality. Removal methods include chipping and scattering onsite, hauling to landfill, recycling and burning. Chipping and scattering on site is very cost effective; it cuts down on travel time and added expense of hauling away. Scattering slash mulch requires that it be scattered around the site at a depth no greater than 4 inches. Scattering onsite may also be beneficial as the nutrient base is not removed from the site and can also be beneficial by preventing noxious weeds from sprouting after cutting. Hauling to a landfill is not cost effective given the additional time required to haul, fuel costs and the cost of disposal.

In Colorado Springs there is a market for slash mulch. Rocky Top Resources, Inc. recycles slash mulch into decorative mulch for retail. Any slash related to CSFD Wildfire Mitigation projects and neighborhood chipping is taken free of charge. This is a viable alternative to chipping and scattering if slope or visual quality is an issue. Rather than going into a landfill, the material is treated and recycled for landscaping.

Burning has not been utilized for slash removal because of population density and risk of escape. Reintroducing fire in the form of pile burning can have ecological as well as social benefits. There are areas in the wildland urban interface where access is an issue and burning is viable because of distance to surrounding neighborhoods. Pile or understory burning would require an approved burn plan and qualified burn boss, lighting and holding crews. It can also provide benefits to the community as an educational tool; smoke in the air can serve as a reminder of their wildfire risk.



Scoping

Scoping is defined as the ongoing assessment of a situation through monitoring, consultation and discussion. The Colorado Springs Wildfire Mitigation Section works with numerous agencies and non-profit organizations throughout the project planning and implementation process. These include:

Interagency and Non-Profit Collaboration:

- Air Force Academy
- Cheyenne Mountain Air Force Station
- Cheyenne Mountain Zoo
- Coalition for the Upper South Platte
- Colorado Division of Emergency Management
- Colorado Division of Wildlife
- Colorado Historical Society
- Colorado Springs Council of Neighbors and Organizations
- Colorado Springs Police Department Code Enforcement Unit
- Colorado Springs Development Review Enterprise
- Colorado Springs Parks, Recreation and Cultural Resources
- Colorado Springs Public Safety Sales Tax Oversight Committee
- Colorado Springs Utilities
- Colorado State Forest Service, Woodland Park District
- Colorado State Parks, Cheyenne Mountain State Park
- El Paso County
- Federal Emergency Management Agency
- Fort Carson Army Installation
- Friends of Cheyenne Cañon
- Sisters of Mount Saint Francis
- Palmer Land Trust
- Pikes Peak Wildfire Prevention Partners
- School Districts 2, 11, 12, 20
- University of Colorado at Colorado Springs
- US Forest Service, Pikes Peak Ranger District

In 2010, the Wildfire Mitigation Steering Committee met to identify project planning including priority criteria and identifying project areas. Committee members were asked to serve because of their involvement and accomplishments in their own neighborhood.

Wildfire Mitigation Steering Committee:

- Sandy Lewis
- Jamie Adams
- Rich Ingold
- Margaret Brettschneider

Public scoping and notification process includes the following mediums:



- Neighborhood signs
- Colorado Springs Fire Department website and social media sites
- Neighborhood meetings
- Mailings

Potentially Affected Interests

Wildfire mitigation projects have a direct effect on the residents in terms of reducing wildfire risk, but the activities can also cause issues for other cooperators and non-profits. The intent is to balance mitigation measures with social and resource values while minimizing any negative effects. See Table 2 for potentially affected interests and the correlating issues with mitigation measures.



Table 2. Potentially Affected Interests and Associated Issues

PAIs	ISSUES									
	SMOKE MANAGEMENT / AIR QUALITY	SLOPE MOVEMENT / EROSION	VISUAL CORRIDORS / SCREENING	EGRESS / ESCAPE ROUTES	PRESCRIBED BURNING	WILDLIFE HABITAT	FOREST HEALTH	OUTDOOR RECREATION	WATER QUALITY	MECHANICAL FUELS TREATMENT
1. Residents and HOAs	X	X	X	X	X	X	X	X	X	X
2. Colorado Springs Fire Department	X		X	X	X		X			X
3. Colorado Springs Parks, Recreation & Cultural Resources	X	X	X		X	X	X	X	X	X
4. US Forest Service	X	X	X		X	X	X	X	X	X
5. Palmer Land Trust	X	X	X		X	X	X	X	X	X
6. Colorado Springs School Districts	X			X	X					X
7. Cheyenne Mountain Zoo	X	X	X	X	X	X	X		X	X
8. Colorado Division of Wildlife	X	X	X		X	X	X		X	X
9. Colorado State Parks	X	X	X		X	X	X	X	X	X
10. Colorado State Forest Service	X	X	X		X	X	X	X	X	X
11. Medical / Nursing Facilities	X	X		X	X		X			X
12. UCCS	X	X		X	X		X			X
13. Mount Saint Francis	X	X		X	X		X			X

Potential collaboration on wildfire mitigation projects include cross boundary projects with the Air Force Academy, El Paso County, US Forest Service and Cheyenne Mountain State Park.



Project Planning

Selection criteria were determined by more than fuel conditions as these are not forest health projects. Potential project areas were identified based on local knowledge by the steering committee members. Selection criteria for the project areas were listed and discussed for each project. The following selection criteria were used to identify project areas:

- Neighborhoods with HIGH – EXTREME wildfire risk ratings
- Location and adjacency to population density
- Cooperation and “buy-in” from the surrounding neighborhood
- Involvement in “Sharing the Responsibility;” a demonstrated commitment to reducing wildfire risk on private property.
- Vegetation density, fuel type and fuel loading
- Stand health and amount of mortality in the timber and brush
- Age of homes (existing shake shingle roofs, wood siding, mature vegetation)
- Topography
- Adjacency to critical infrastructure (hospitals, schools, fire stations, transportation routes)
- Critical habitat (threatened and endangered species)
- Cultural and historical resources
- Fire history and frequency
- Project size (larger projects receive the highest priority as they can drive down the cost per acre)

Project Areas

Project areas are identified as city assets at risk. Project scheduling and completion will depend on funding availability, staffing resources and weather conditions. General project specifications include:

- Removal of dead and diseased trees and brush
- Thinning of small diameter understory trees and brush
- Limbing overstory trees
- Removal of ladder fuels within the dripline of trees
- Removal of dead and down woody fuels

For grant funded projects and additional wildfire mitigation project see Tables 3, 4 and 5.

Table 3. Pre-Disaster Mitigation Grant Funded Projects

<i>2011-2013 Project Area (FEMA PDM Grant)</i>	<i>Year</i>	<i>Acres</i>
Broadmoor Resort Community	2011-13	173
Quail Lake Park	2011-12	57
Village at Skyline	2011	5
Palmer Park (North)	2012-13	300
Skyway Heights	2012	20
Garden Ranch / Union Meadows	2013	32
Cedar Heights	2013	75
TOTAL		662



Table 4. Wildfire Mitigation Projects, 2014-2021

<i>2014 – 2021 Project Areas</i>	<i>Acres</i>
University Park	325
Blodgett Peak Open Space	70
Garden of the Gods	530
Palmer Park (South)	300
Sunset Mesa Open Space	78
Southface Rockrimmon	17
Comstock / Linear Park	47
North Cheyenne Cañon Park	225
Bear Creek Cañon Park	80
Mount Saint Francis	15
Ute Valley Park	338
Mountain Shadows	25
TOTAL	2050

Table 5. Other Potential Project Areas as funding allows

<i>Additional Project Areas</i>	<i>Acres</i>
North Slope Recreation Area	2267
Austin Bluffs (Pulpit Rock) Open Space	585
Cheyenne Mountain State Park Backdrop Open Space	832
Manitou Section 16	634
Mesa Valley Open Space	42
Red Rock Canyon Open Space	785
Rockrimmon Open Space	78
Sondermann Park Open Space	100
Stratton Open Space	318
University of Colorado at Colorado Springs	200
TOTAL	5841

The number of targeted accomplished acres (neighborhood chipping, hand thinning, mastication, volunteer projects and prescribed burning) is 1000 acres annually. Volunteer projects and neighborhood contributions will be utilized in grant funded projects toward the matching grant requirement. For a location map of planned projects through 2021, see Figure 19.



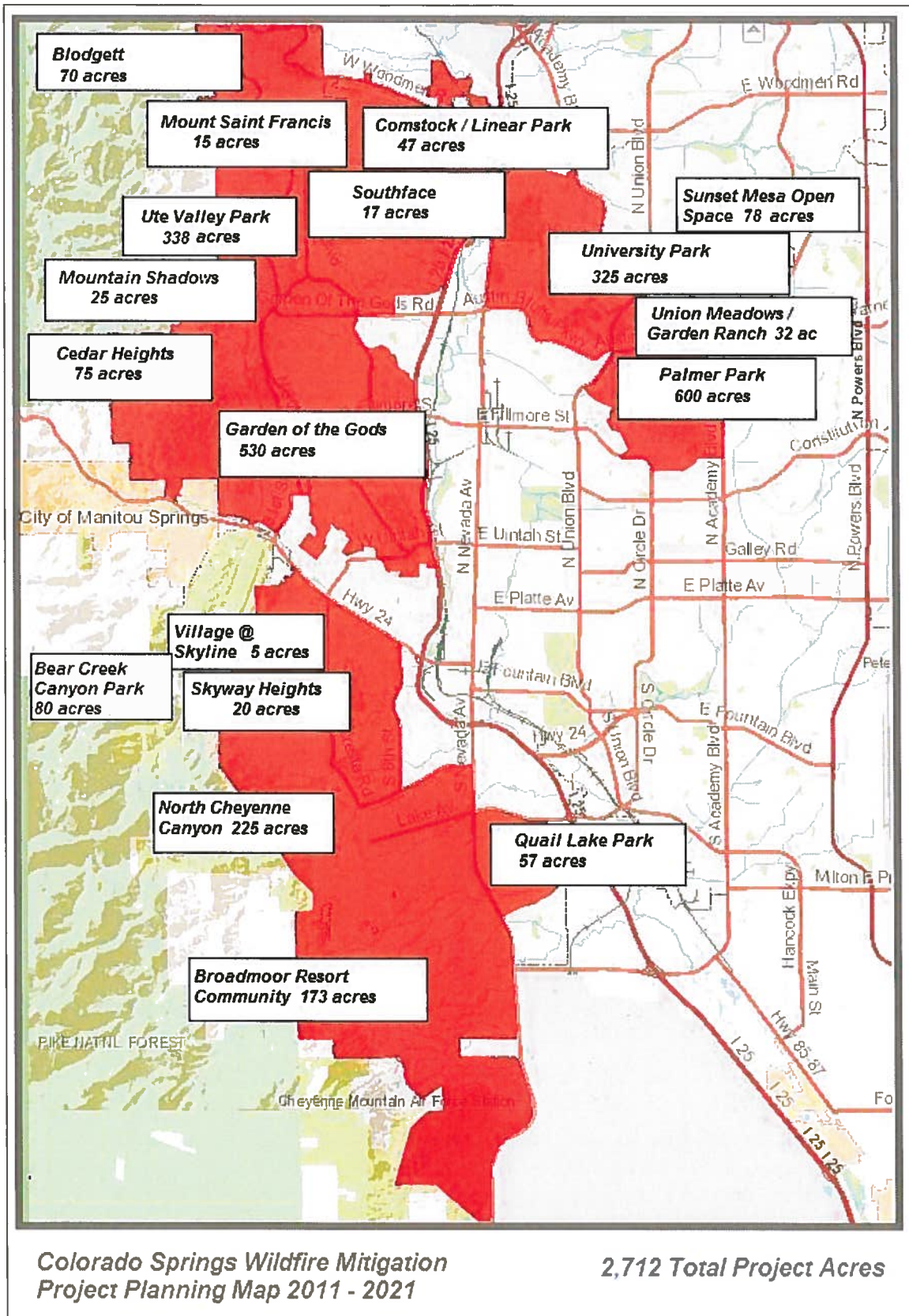


Figure 19. Planned Fuels Mitigation Projects from 2011 - 2021



Monitoring

Projects are to be monitored during implementation and up to 3 years after completion.

Monitoring effects as a result of mitigation efforts include:

- Erosion
- Noxious weeds and invasive plants
- Oak brush regeneration
- Pests
- Wildlife activity
- Social trails and unauthorized vehicle access

Rehabilitation

Rehabilitation planning includes wildfire mitigation projects and wildland fires. In the event of any adverse effects of the mitigation work, prescribed burn or wildland fire, the Wildfire Mitigation Section will mitigate the damages using erosion control methods, spraying of noxious weeds, or other called-for rehabilitation. All attempts to minimize impact to the site will be made with respect to time of year, weather conditions, soil conditions, existing vegetation and amount of disturbance.

Maintenance

Initial costs of fuel treatment can range between \$900 - \$2500 / acre depending on fuel loading, access and slope. It is important that these projects are maintained as there is so much invested on the initial treatment. Maintenance costs range from \$200 - \$500 / acre. Project maintenance is funded from the Public Safety Sales Tax and is part of the grant cycle. Responsibility for project maintenance is shared between the Wildfire Mitigation Section and the property owner. Maintenance includes cutting oak regeneration using brush cutters, mower attachment and ATV. Scheduled maintenance is every 5-8 years post project depending on timing of treatment, seasonal precipitation, regeneration rates and stand composition.



Glossary of Terms

Arbor care: the care of individual trees including planting, pruning and removal

Burn ban: a temporary prohibition on open burning as a result of very high or extreme fire danger

Burn restrictions: a temporary limitation on open burning as a result of high fire danger

Clear cut: to cut down every tree in a designated area

Conifer: a cone bearing tree with evergreen needles

Fire break: an area where all the vegetation has been removed in order to stop a wildfire

Fire danger adjective: standard rating of the fire danger that includes Low, Moderate, High, Very High and Extreme

Fire regime: the pattern and frequency of wildfire occurrence in an area

Forest health: condition of a forest stand based on resiliency, productivity and sustainability

Fuel model: a standard description of available natural vegetation, including dead and down woody material that is available to burn, distinguished by amount and arrangement.

Fuel moisture: the amount of moisture in the plant l relative to the oven dry weight of the plant material

Geographic Information System (GIS): a system of hardware and software for storing and displaying geographical information

Hazard: a source of harm

Invasive plants: non-native species that can have an adverse effect on the ecology of the area

Ladder fuels: intermediate sized vegetation that provides continuity allowing fire to spread from the surface into the crowns of trees

Mastication: the process of crushing or breaking down woody vegetation into slash mulch

Mitigation: the act of reducing or alleviating the severity of the hazard

Mulch: shredded or chipped woody material

Noxious weeds: plants that are considered harmful

Prescribed burning: an intentionally set controlled fire intended to reduce wildfire hazard



Pyrotechnics: the use of fireworks, explosives or smoke for special effect

Regeneration: new plant growth after the act of cutting or destroying plant material

Risk: the probability of harm if exposed to a hazard

Slash: the woody debris resulting from cutting or removing trees or bushes

Snag: a dead, standing tree

Social trails: trails established from constant use, not established through trail construction

Stem: the main stalk of a tree or bush

Structural retrofit: adding to or updating building features or material in order to reduce the wildfire risk

Understory: the smaller trees and bushes growing under the canopy of trees

Wildfire Mitigation: to reduce the wildfire risk to life and property through education, outreach, fuels management and structural characteristics

Wildland Urban Interface: An area where communities and homes are adjacent to or intermix with natural vegetation. The combination of fuels, topography, property and people constitutes a risk of wildfire.



Organization

Colorado Springs Wildfire Mitigation staff positions include 2 full-time funded positions out of Public Safety Sales Tax (PSST) and 1 full-time grant funded position. Hourly employees include the Fuels Crew, Chipping Crew and a Fuels Technician. Public Safety Sales Tax funded positions are applied to the grant match. For the Wildfire Mitigation Section organization chart see Figure 20.

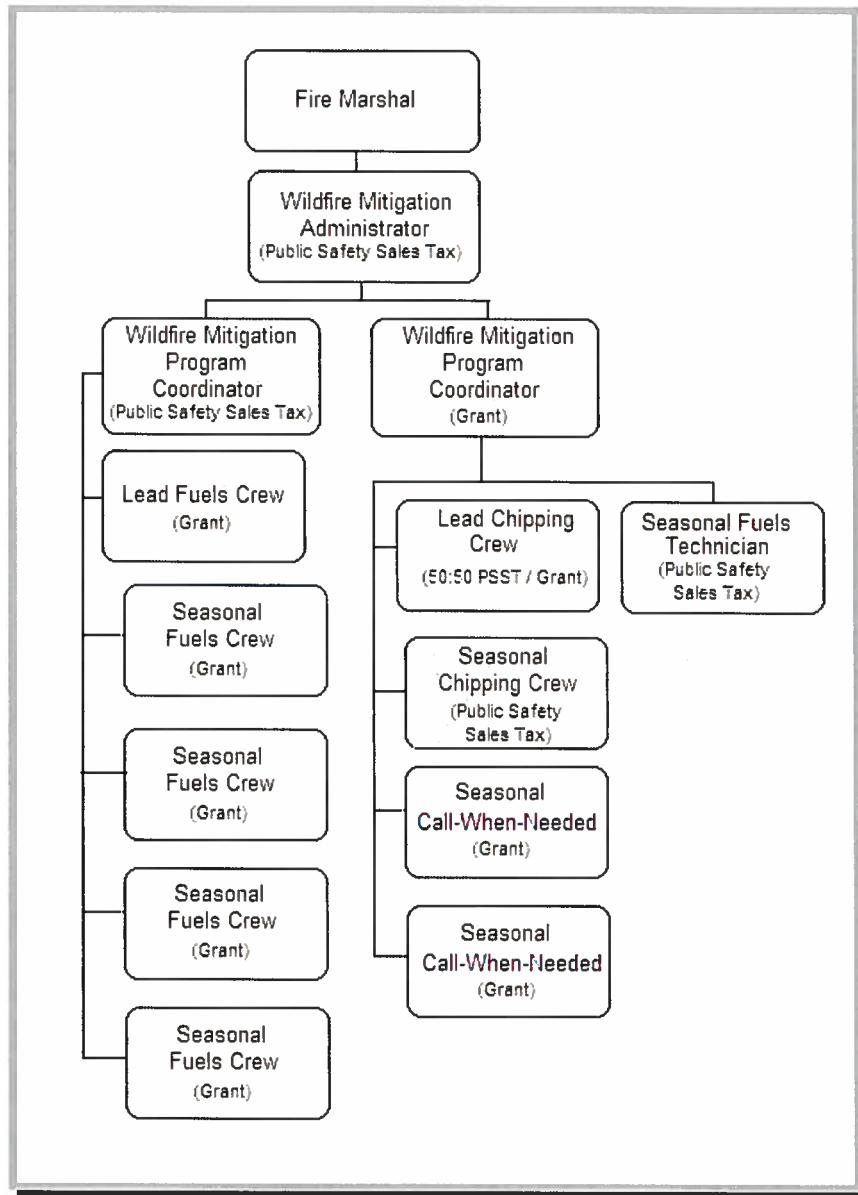


Figure 20. Wildfire Mitigation Section Organization Chart

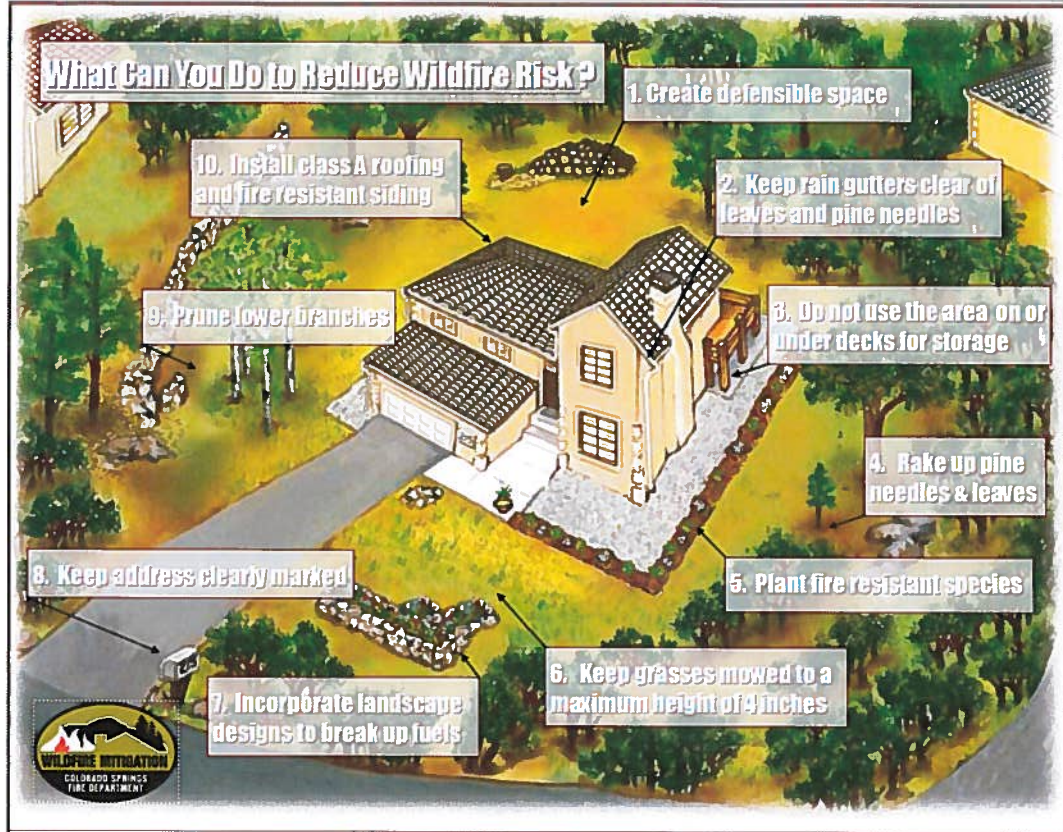
To access the online Colorado Springs Wildfire Hazard Risk Assessment map go to:

<http://csfd.springsgov.com>

"Sharing the Responsibility"



Appendix I. Homeowner Brochure



A Message from the Fire Marshal

Defending against wildfire is **everybody's** responsibility. The work you do on your property goes beyond reducing your own risk, it also impacts your neighbors. Your efforts to mitigate your property ahead of time will improve fire fighter safety in the event of a wildfire. We recognize that mitigation work does not guarantee the survivability of a structure. However, if homeowners follow these guidelines, we can significantly reduce wildfire risk. Thank you for working together and **"Sharing the Responsibility."**

Brett Lacey, Fire Marshal
Colorado Springs Fire Department

What is the Wildland Urban Interface?

The Wildland Urban Interface (WUI) is that area where structures meet or intermix with natural fuels and topographical features. There are 35,360 addresses identified in the Colorado Springs WUI. All neighborhoods identified in this area are vulnerable to wildfire. Colorado Springs is considered a **high hazard wildland fire environment.**



Reduce Your Wildfire Risk

1. Create defensible space around your home. Colorado Springs Fire Department recommends thinning out 30 feet or to your property line, whichever comes first.
2. Keep rain gutters clear of leaves and pine needles.
3. Do not store combustibles on or under decks, including fire wood.
4. Rake up pine needles and leaves within 30 feet of any structure.
5. Select plant species with fire resistant characteristics.
6. Keep grasses mowed to a maximum height of 4 inches.
7. Incorporate landscape designs to break up fuel continuity (i.e. paths, rock walls, gravel mulch).
8. Keep address clearly marked and visible from both directions of traffic. (Fire fighters can't help you if they can't find you.)
9. Prune lower branches. Removing ladder fuels will help keep the fire from getting into the crowns of trees. Remove dead or diseased trees and brush.
10. When making home improvements or repairs, consider wildfire safety. Install Class A roofing and fire resistant siding.

Sharing the Responsibility

For more information or to access your wildfire risk rating visit our website at:

<http://csfd.springsco.gov>

or contact us at: (719) 385-7342

A Homeowner's Guide to Reducing Wildfire Risk



Sharing the Responsibility



Appendix II. Stewardship Agreement

Wildfire Mitigation Stewardship Agreement

This Agreement is entered into this _____ day of _____, _____ between the City of Colorado Springs, a Colorado municipal corporation and home rule city by and through its Colorado Springs Fire Department Wildfire Mitigation Section (hereinafter, the "City") and _____ (hereinafter, the "Owner(s)").

The Parties agree as follows:

The Owner(s) wish to reduce natural fuel accumulation (including brush, grass, duff and litter) in the neighborhood in order to reduce the fire danger posed to the area and the owner's property. The City has code and requirements that regulate the accomplishment of this clearing and removal.

City's Responsibilities

1. To assess current conditions and provide guidelines for property owners.
2. To identify and assist in pursuing grant opportunities for vegetation management on behalf of the Owner(s), whenever possible. The City is not responsible for any funding for the project.
3. To conduct a reassessment upon completion of the work to evaluate and update the wildfire hazard rating.
4. To inspect the project area in order to monitor progress and check for compliance with Colorado Springs Wildfire Mitigation guidelines.

Owner's Responsibilities

1. To implement a comprehensive vegetation management prescription for mechanical thinning and removal of fuels.
2. To approve treatment methods which can include, but are not limited to, the following: cutting, limbing, pruning, felling, bucking, grinding, chipping and hauling of slash or other debris.
3. The work under this Agreement should be limited to the hours of 8 a.m. to 6 p.m. daily.
4. Owner(s) further agree to provide measures recommended by the City on any newly exposed hillsides for protection from erosion. These measures can include, but are not limited to, the following: terracing, retaining walls, plantings, waterbars, slope blankets or mesh.
5. Owner(s) agree to use those standards of good practice as directed by the Colorado Springs Wildfire Mitigation concepts.
6. Upon the completion of the work, Owner(s) will contact the Wildfire Mitigation Program Coordinator for a final site visit. This site visit is for the purpose of reassessing the wildfire risk values for the treated parcel.
7. Owner(s) agree and understand that this agreement may be withdrawn without the consent or acquiescence of the City.
8. Owner(s) agree and understand that in case the agreement is withdrawn, there shall be no liability or responsibility on the part of the City for termination of the agreement. Owner(s) shall hold the City harmless for any such withdrawal or termination.
9. Owner(s) understand that in case the agreement is withdrawn, there shall be no liability or responsibility on the part of the Owner(s) for termination of the agreement. City shall hold the Owner(s) harmless for any such withdrawal or termination.
10. Owner(s) agree that they are responsible for the actions of any work performed by volunteers, contractors, or other persons working on their property.
11. If the Owner(s) employs contractor(s) or personnel, then the Owner(s) will provide a general description of personnel, qualifications, professional certifications and licenses.
12. Owner(s) agree and understand that there is no representation or warranty by any person that this vegetation management project or creation of defensible space will or could prevent the ignition or spread of any fire.

The City and the Owners have executed this agreement on the date above written.

City of Colorado Springs Fire Department

Owner(s)

By _____ By _____

Printed _____

Disclaimer: Wildfire mitigation is intended to reduce wildfire risk; not eliminate the risk of wildfire. It is important to note that wildfires are a dynamic event influenced by several factors including weather (winds, relative humidity, temperature, atmospheric pressure, lightning, etc.) topography, fuels, human activity, response times and seasonal trends (i.e. drought.) There will always be some risk of wildfire regardless of mitigation efforts and structural characteristics.



“Sharing the Responsibility”

You Cut and Stack; We’ll Chip and Haul

Getting Started:

- Your neighborhood must be within the City of Colorado Springs and identified as being at risk for wildfire. Find your address at <http://csfd.springsgov.com> or call 385-7342 for assistance.
- Select a neighborhood representative to sign a stewardship agreement.
- Participants **MUST** attend a neighborhood meeting or onsite consultation before the chipping date.
- There must be at least 12 homes participating; no maximum.
- Select a chipper date and submit a list of participating addresses at least 1 week prior to the selected date.



What’s Acceptable:

- Woody limbs and branches only, up to 9” diameter.
- No construction or building materials. Must be clear of nails or wire.
- Piles only; no bags.
- No trash, weeds or yuccas.
- No root wads, dirt or rocks.
- No grass clippings or bags of leaves.

Pile Guidelines

- Piles must be within 5’ of the roadway, stacked neatly with ends facing the road.
- Please limit pile size to 5’x5’x5’. No limit as to the number of piles along the curb.
- Piles must be out by the first day; crew will NOT double back to get additional piles during the week (for scheduling reasons.)
- Please do not combine piles with neighbors or haul in from other neighborhoods.

“Good” Pile Example



“Bad” Pile Example



For more information or scheduling, please contact the CSFD Wildfire Mitigation Program Coordinator at 385-7342 or anotbohm@springsgov.com

Wildfire Mitigation Section, Division of the Fire Marshal - Funded through Public Safety Sales Tax
* This service is provided free of charge to residents as funding is available. Donations accepted.

