Custer County Community Wildfire Protection Plan





September 2007

Prepared by Custer County CWPP Coordinator - Contractor, Len Lankford, President and Forester of Greenleaf Forestry and Wood Products, Inc., with the assistance of Robin Young, Forester of Young's Forestry, both of Westcliffe, Colorado. Contact Len Lankford at (719) 783-4250 or email len@greenleafforestry.com.

This Plan was developed with the collaboration of numerous individuals and agencies. Hazard ratings, analysis, comments, suggestions, and strategies are based on a broad consensus of community participants. More comments and suggestions are welcome.

CUSTER COUNTY COMMUNITY WILDFIRE PROTECTION PLAN September 2007

Acceptance/ approval by community and agency authorities:
Phlace
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Custer County Sheriff's Office, by Fred Jobe, Sheriff and Fire Marshall
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PA -
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CUSTER COUNTY COMMUNITY WILDFIRE PROTECTION PLAN September 2007

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CUSTER COUNTY COMMUNITY WILDFIRE PROTECTION PLAN --September 2007

EXECUTIVE SUMMARY – summary of findings and conclusions

Custer County and the Wet Mountain Valley are framed by forests and mountains, including major parts of the Sangre de Cristo and the Wet Mountains of south-central Colorado. Its forests are a highly valued component of the mountain environment, which has seen steady changes in increased wildland residential use over the past two decades. The interface of public wildlands, primarily National Forests, has combined with increasing wildfire fuel buildup to create massive wildfire hazards in most of the County, and destructive, dangerous wildfires have steadily been increasing in and near the County.

The Custer County Community Wildfire Protection Plan (CWPP) was organized to study countywide wildfire hazards and risks, and to determine community priorities and strategies for action. Statistical and map wildfire hazard rating systems, along with public and agency collaboration and input, were used to determine countywide problems and identify two high priority, large "Landscape Neighborhoods" on the Wildland Urban Interface (WUI) for fuel mitigation action. These are Alvarado and Lake Isabel. Although Alvarado (Sangre de Cristo Mountains) and Lake Isabel (Wet Mountains) are initial targets for fuel mitigation action, it was found that all small-parcel forested areas of the county are high risk.

Extensive public meetings and reviews of the research data and maps of both the social and physical geography of Custer County led to the written Community Wildfire Protection Plan. A two-year educational process has painted a clear picture of what is at stake, and generated detailed discussion of individual landowner and community priorities, strategies for viewing the problem, and some practical means of action.

The results of this process form the recommendations of the Custer County CWPP Action Plan:

- 1. Create a charter for and appoint a Custer County CWPP Commission (or Council) that includes community leaders, forest practitioners, and local fire and government representatives, which will serve as an advisory board to the Custer County CWPP Coordinator (see below.) The Custer County CWPP Commission could organize as a new 501c3 nonprofit organization or as an affiliate of an existing Custer County nonprofit organization, or as a County agency. The Commission/ Council will research and study the Forest Improvement District Act, non-profit organization designations, state and county regulations, private landowner incentives, and other CWPP implementation ideas to determine the most advantageous structure for the Custer County CWPP Commission/ Council. Recommendations for a permanent organization to drive CWPP action will be presented to the Custer County Commissioners by the end of 2008.
- 2. Seek grant funding for the County from the Healthy Forests Restoration Act, the BLM, the U.S. Forest Service, and other sources by a specific proposal to initiate the following:
 - a. Activate a County CWPP Office with a contracted CWPP Coordinator responsible to the Commissioners. This Office, with help provided by the Custer County Zoning Office and the CWPP Commission (see above), will coordinate and support mailings, information, low-cost high-benefit education, and CWPP actions per the CWPP recommendations and b-f below.
 - b. Organize the GIS database and maps, specifically targeting the two priority Landscape Neighborhoods (Alvarado and San Isabel) as well as enhancing general countywide capabilities.
 - c. Support writing two specific targeted priority Neighborhood CWPP's by Fall 2008.
 - d. Demonstrate cost-share projects in the above two priority areas, in collaboration with U. S. Forest Service, Colorado State Forest Service, and private forestry companies, for initial projects starting in 2008 and completing in 2009 and for program continuation in other years. Also seek federal agency collaboration on adjacent public lands.
 - e. Organize specific educational projects including bi-annual mailings and information packets, maintain contractor/volunteer lists, organize and promote free slash and biomass use day at the Landfill, attend public events with educational displays and programs, write newspaper articles, and develop achievement recognition and economic incentives and more.
 - f. Organize fire hazard mitigation under and along the main power line to Wet Mountain Valley.
 - g. Organize sessions for public comment on the voluntary and regulatory options available to Custer County to create CWPP awareness/action and to gauge community support and reaction.

OUR MOTIVATIONS

FOR A COMMUNITY WILDFIRE PROTECTION PLAN stem from:

- -- An increase in frequency and size of wildfires in and near Custer County
- --An increase in fire hazard and lack of organized prevention and mitigation
- -- A lack of homeowners providing defensible space surrounding homes





■ PHOTOS OF THE CUERNO VERDE FIRE, WITH A BURNED HOME, ILLUSTRATE SEVERE WILDFIRES CAN AND DO HAPPEN HERE.

Conclusion: YES, CUSTER COUNTY IS IN DANGER!

Recent wildfire history in our area (red indicates Custer County) See Appendix for photos & maps.

- □ Lake Creek −1993−250 acres in the Sangres
- □ Cuerno Verde, 2002, 2 homes, 442 acres in a subdivision south of Rosita
- □ Iron Mountain, 2002, 4,439 acres, 100 homes (in Fremont County, crossing Copper Gulch Road)
- Mason Gulch. 2005. 11.357 acres southeast of Greenwood, off Hwv. 96
- Tyndall Gulch, 2006, 541 acres On Hwy. 96, 7 miles east of Westcliffe
- ☐ Mato Vega, 2006, 13,820 acres (in Costilla County, southern Sangres)

THE CUSTER COUNTY CWPP

Introduction

What is a Community Wildfire Protection Plan (a CWPP)?

Officially, a Community Wildfire Protection Plan (CWPP) is a study and strategy document developed by a community to address the specific needs, environmental conditions and social dynamics of that community regarding wildfire. Various stakeholders (i.e., people and organizations) of Custer County have helped develop the Custer County CWPP to, foremost, meet the needs and goals of its citizens and to understand, advise and coordinate all interests in achieving those goals. It is a working document, meant to begin a CWPP process for years to come.

The idea for community-based forest planning and wildfire protection is not new. However, the incentive for communities to engage in comprehensive forest planning and prioritization was given new and unprecedented impetus with the enactment of the Healthy Forests Restoration Act (HFRA) in 2003. This landmark legislation includes the first meaningful statutory incentives for the US Forest Service (USFS) and the Bureau of Land Management (BLM) to give consideration to the priorities of local communities as they develop and implement forest management and hazardous fuel reduction projects.

In order for a community to take full advantage of this new opportunity, the HFRA directed that it must first prepare a Community Wildfire Protection Plan (CWPP). Local wildfire protection plans can take a variety of forms, based on the needs of the people involved in their development, and based on the variety of land types in the region. Community Wildfire Protection Plans must address issues such as wildfire response, hazard mitigation, community preparedness, and structure protection—or all of the above.

In the case of Custer County, the CWPP addresses the needs of citizens geographically, on the west and east sides of the Wet Mountain Valley, those in the Wet Mountains southward to San Isabel, and those across the mountains eastward to Wetmore. Needs of residents living on the non-forested Valley floor or in the towns of Westcliffe and Silver Cliff are best included in the general and top priority concern of Custer County infrastructure at risk, specifically the Oak Creek Grade powerline leading into the Valley (see report below.)

The minimum requirements for an official (HFRA funded) CWPP are to address 1) collaboration between local citizens and governmental agencies, 2) prioritized fuel reduction based on at-risk neighborhoods, and 3) treatment of structural ignitability – including recommended measures homeowners can take to reduce the ignitability of structures. These requirements are the emphasis of the Custer County CWPP.

The process of developing a CWPP can help a community clarify and refine its priorities for the protection of life, property, and critical infrastructure in the wildland – urban interface (WUI). It also can lead community members through valuable discussions regarding management options and implications for the surrounding watershed and for restoring healthy forests. The goal of the Custer County CWPP is to open this discussion, set goals, determine strategies, and set a path towards future implementation of forest improvements in our County.

Specific objectives of the Custer County CWPP are to identify: a.) the Wildland Urban Interface (WUI) of the County where residential areas are at high wildfire risk; b.) critical and high priority projects needed to protect community resources, homes, infrastructure, and delivery systems (such as power lines); c.) projects and procedures to improve the safety of forested lands and subdivisions.

Specific expected benefits of the Custer County CWPP are: a.) the official WUI designation resulting from the CWPP may help qualify private lands for cost-share HFRA funding and other positive economic incentives (though more localized, specific CWPP's will also likely be needed); b.) it may help neighboring public land agencies get funding for fuel reduction near private lands; c.) it will provide public land agencies input from the community on priorities and preferred methods of fire hazard treatment; d.) it will provide ways to mitigate the wildfire problems of Custer County; e.) it can heighten county-wide awareness, education efforts, community cooperation, and long-term, local wildfire preparedness.

The CWPP project in Custer County began through a grant request that was reviewed and supported by the Custer County Commissioners and funded by the HFRA through the BLM. The County contracted local forester Len Lankford of Greenleaf Forestry and Wood Products, Inc., in July, 2006 to coordinate the CWPP process through many collaborative meetings and to prepare the written Plan. The Custer County CWPP process was organized to hold a series of public, agency, and other expert and stakeholder meetings to solicit ideas, present data and maps, formulate questions and strategies that need to be addressed by the plan, and to listen to and involve interested volunteers in creating the CWPP and building its continuation and effectiveness in the community. Continuing comments and suggestions are requested and encouraged. Len Lankford may be contacted at 783-4250 (D) or 783-2487 (N), or email at len@greenleafforestry.com.

Summary and Checklist for Developing a CWPP – Steps of the Custer County CWPP Process

These steps were followed in our CWPP process, and are explained below.

Step One: Convene Decision-makers

• Form a core team made up of representatives from the appropriate local governments, local fire authority, and state agency responsible for forest management.

Step Two: Involve Federal Agencies

- Identify and engage local representatives of the USFS and BLM.
- Contact and involve other land management agencies as appropriate.

Step Three: Engage Interested Parties

 Contact and encourage active involvement in plan development from a broad range of interested organizations and stakeholders.

Step Four: Establish a Community Base Map

Work with partners to establish a baseline map of the community that defines the community's WUI (Wildland Urban Interface) and displays inhabited areas at risk, forested areas that contain critical human infrastructure, and forest areas at risk for large-scale fire disturbance.

Step Five: Develop a Community Risk Assessment

- Work with partners to develop a community risk assessment that considers fuel hazards; risk of wildfire occurrence; homes, businesses, and essential infrastructure at risk; other community values at risk; and local preparedness capability.
- Rate the level of risk for each factor and include this data in the base map as appropriate.

Step Six: Establish Community Priorities and Recommendations

- Use the base map and community risk assessment to facilitate a collaborative community
 discussion that leads to the identification of local priorities for fuel treatment, reducing
 structural ignitability, and other issues of interest, such as improving fire suppression response
 capability.
- Clearly indicate whether priority projects are directly related to protection of communities and essential infrastructure or to reducing wildfire risks to other community values.

Step Seven: Develop an Action Plan and Assessment Strategy

 Consider developing a detailed implementation strategy to accompany the CWPP, as well as a monitoring plan that will ensure its long-term success.

Step Eight: Finalize Community Wildfire Protection Plan

- Finalize the CWPP and communicate the results to community and key partners.
- For further information, a very useful guide to developing a CWPP is available at: http://www.safnet.org/policyandpress/cwpphandbook.pdf.

Summary of the CWPP Process Completed for the Initial Plan, 2006-07

Steps One , Two, and Three: Convene stakeholders, agencies, interested parties.

In the summer of 2006, meetings were held each Tuesday evening for 6 weeks to get input from representatives from as many agencies, landowners, and the general public as possible. Other meetings in the fall explained the base maps and statistical data for landowners in the County. In the spring of 2007, maps were presented with more detailed GIS parcel information in map layers showing aerial photos, topography, access, and wildfire behavior. Public meetings continued in Summer 2007.

Participants and supporters in the CWPP process:

County Commissioners – Dick Downey, Carole Custer, and Kit Shy

Fire Marshall (Sheriff)-- Fred Jobe

Office of Emergency Management – Craig and Christe Feldmann

Fire Protection District – Wet Mountain Valley Fire Protection District was represented (Mick

Kastendieck, Fire Chief and others. Wetmore and San Isabel (via Rye) were contacted.

County Road and Bridge -- Dave Trujillo, Road Boss

Colorado State Forest Service -- John Grieve, District Forester

U. S. Forest Service -- Paul Crespin and Mike Smith, Dennis Page (Wildfire Behavior) and Dennis Cleary (GIS).

BLM -- Mike Gaylord, Dave Tolle, Ed Skerjanec and others.

USDA NRCS and Sangre de Cristo RC&D.

Colorado Division of Wildlife -- local wildlife officer.

San Isabel Land Protection Trust -- Brian Riley and Kevin League.

Southern Rockies Conservation Alliance -- John Chapman.

Wilderness Society and Upper Arkansas and South Platte Project --Michael Rogers and Jean Smith Water Conservation District -- local water commissioner Jerry Livengood

Homeowners associations, Eastcliffe – Charles Bogle; Tanglewood, Wapiti Creek, Alpine Colony, and Taylor Highlands – several members and neighboring landowners.

Horn Creek Conference Grounds

Local Realtors and about a dozen Landowners

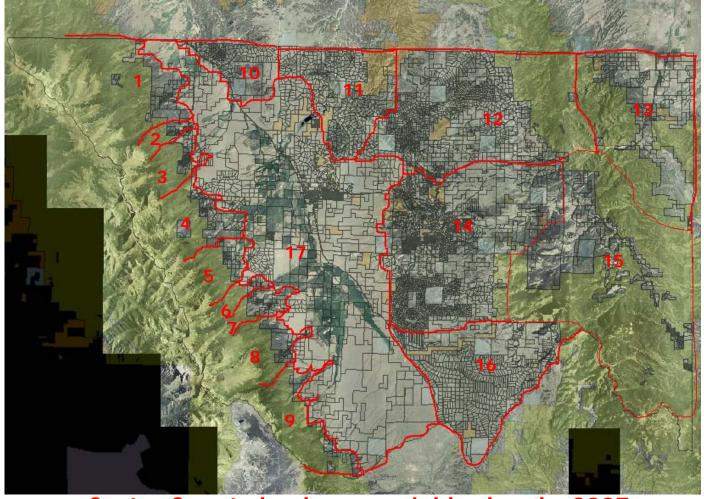
San Isabel Electric Association -- Glenn Livengood. Also, Aquilla -- Canon City office (engineer). Forest management interests and businesses --Len Lankford, Robin Young, Casey Christensen.

Step Four: Decide the scope and coverage of the base map.

The goal was to show the Wildland Urban Interface (WUI) and as much information as possible pertinent to wildfire hazard analysis. To do this, the County was divided into 17 "Landscape Neighborhoods," as shown on the following BASE MAP for the CWPP. Note that the green-tinted areas are National Forest and the orange-tinted are BLM lands. These Neighborhoods are called "Landscape" because they cover very large areas identified by common terrain, watersheds, vegetation, and access. They are identified as Numbers 1-9 being along the base of the Sangre de Cristo Mountains, and then Numbers 10- 16 on the east side of the Wet Mountain Valley. Number 17 is the Valley floor itself. The Sangres (1-9) Neighborhoods are smaller than those on the east side due to lack of access between them and high incidence of WUI.

These regions of the County give a broad view of wildfire protection problems, which are within the broad scope of our countywide CWPP. Future CWPP's must focus on smaller, more localized neighborhoods – right down to next-door neighbors – where specifics can addressed. The concept of "neighborhood" was chosen to emphasize that the CWPP is about protecting people and getting people to work with other people, rather than focusing on the enormous environmental problems we all face in protecting against wildfire.

In other words, we must start small with a focus on more manageable, immediate, neighborhood projects. Then, we can work up to having many such projects ongoing and accomplishing big, countywide, multi-layered projects.



Custer County landscape neighborhoods, 2007

Note: on the above BASE MAP, parcel densities appear BLACK/ GRAY SHADED. These density areas indicate especially hazardous areas in many parts of the county. Westcliffe and Silver Cliff are the large dark shaded area above the number "17."

The **Landscape Neighborhoods** list is as follows:

Sangre de Cristo:

- 1. Brush Creek
- 2. Verdemont
- 3. Pines
- 4. Taylor Creek
- 5. Alvarado
- 6. Horn Creek
- 7. Macey Creek
- 8. Colony
- 9. Music Pass

Others:

- 10. Reed Road
- 11. Bull Domingo area
- 12. Silver Cliff Heights
- 13. Wetmore
- 14. East Hills
- 15. Wet Mountains to San Isabel
- 16. Centennial
- 17. Main Wet Mountain Valley

Step Five: Develop a Community Risk Assessment

Public meetings were held on November 28, 2006, and June 19, 2007, to review Landscape Neighborhood maps and hazard/ risk assessments, including:

□ A. Statistical Risk Assessments from county ownership data = 100 points (completed).

B. Wildfire Hazard Rating Form -- Aerial Map/ GIS Fire Behavior Model -- = 100 points.

Combined analysis (from five review meetings in May, 2007.)

- Agencies (USFS, BLM, CSFS, DOW)
- Fire District(s), County Roads, and County Office of Emergency Management
- Local private forestry/ land management providers; San Isabel Land Protection Trust
- Landowners & realtors

Total rating (A. + B.) + observations = priority areas.

Details were presented about two Risk Assessment approaches. These were devised as information became available over the course of many months.

A. WILDFIRE HAZARD STATISTICAL RISK ASSESSMENT (from county parcel database) First potential 100 points of rating.

Completed in February 2007. This part was formulated to generate a maximum of 100 rating points, to be combined with part 2, map review with a fire hazard rating form, to create a maximum total of 200 rating points.

Custer County landowner data and maps were analyzed for pertinent information. After extensive data analysis, a numerical value was applied to several categories and a risk rating calculated. Details are as follows:

The information was derived from the Custer County landowner parcel database of 2003, with updates through 2005. Individual parcels were tagged as much as possible to be treed or not treed (having approximately 10 percent or more forested area), using topographic maps, aerial photos, and county maps. Some subdivisions were classified as totally treed, and thus individual lots were tagged as treed and were not individually checked for accuracy.

The data was divided by what we are calling "Landscape Neighborhoods" of Custer County. These are the 17 areas shown on the charts, and on the base map. Each Landscape Neighborhood was selected by having relatively or most frequently used common access in each area, and other common topographic and vegetative features. Some have only one road in and out.

Each Landscape Neighborhood was also analyzed by parcel sizes – small (0.0 to 34.9 acres), medium (35.0 to 59.9 acres), and large (60 acres and larger), and by a summary of all sizes. Many categories of relevant data were also summarized in each area – see column headings.

The data was numerically analyzed into four Wildfire Hazard Indexes, all of which were designed to range from in a value from 0 to 5 in most cases, with 5 being the greatest risk. These were added to create a Statistical Hazard Rating. Note: some of the parcel statistics may not include accurate data on recreational camp and conference facilities, such as Horn Creek Conference Grounds, where some of the highest residential densities are present. However, the second part of the Hazard Rating, using the Hazard Rating Form, recognized such camps as high community value with higher risk ratings.

Index #1, Density of Improvements in Treed Areas. This index is based on the percent of the number of improved (with structures) treed parcels versus the total number of treed parcels, calculated as the decimal proportion of improved treed/total treed parcels times five. Therefore, this Index is a parcel-count measure that indicates a relative density of improvements in the treed area of each Landscape Neighborhood by number of parcels involved. A higher number indicates higher risk due to more structures being concentrated in the treed (forest) area.

Index #2, Average Size of Structures on Treed Areas. This index is based on the average size of each improvement on treed parcel. It is calculated as the square feet divided by 500. The higher the number means the larger average size of structures, and thus indicates higher property values at risk.

Index #3, Proportion of Treed Acres Having Improvements. This index is based on the proportion of land areas in improved treed acres versus total treed acres in each Landscape Neighborhood. It is calculated by improved treed acres divided by total treed acres times five. This index is a land-area based measure of density of improvements within the forested area, and a higher number means more percent of the forest area is involved with structures and thus there is more concentration of forest-structure value combinations at risk.

Index #4, Average Size of Treed Parcels. This index is based on the average size of each treed parcel in acres. The index is calculated at the inverse of acre size times 20, or 1/ "avg. acre parcel" size times 20. Very small lots rated as high as 8.3 on this scale, while 35 acre and larger parcels rated 0.6 and under. In this index, very small parcels are assumed to have much higher risks than larger ones due to high individual base parcel values per acre, even if vacant of structures. Risk may also be considered to be subjectively higher due to complications of fire hazard mitigation caused by having so many landowners involved in decision-making, contacts, and other fire hazard problems.

The total rating of each parcel size class was determined, and then added into a Summary for all parcel sizes and expanded (multiplied by 6) to near a 100-point total scale. The data shows clear implications of the Landscape Neighborhoods most at wildfire risk from the statistically determined indexes.

This information formed the basis for further discussion to prioritize fire hazard ratings within Custer County. The summary page of the statistics shows two resulting columns indicating "Order" or ranking of Hazard Priority (1 to 4) for the Landscape Neighborhoods. These are combined with other Wildfire Hazard Rating criteria (see #2 below) for the final community determination of priorities.

Small Parcels were found to most significantly hold the highest ratings, compared to Medium and Large parcels. Therefore the statistics were selected to analyze, compare, and rate neighborhoods based on only the Small Parcel data.

Feb. 5, 2007 index analysis	A. Sr	nall Par	cels (0 t	to 34.9 a	cres)									
els WILDFIRE HAZARD	7 0.		00.0 (0		INDEX #1					INDEX #2				
STATISTICS	Number	of Parcels	# of	# Imprvd	Impr. Percent	Total	Tr Parcel	Avg Sq Ft	Avg Sq Ft	treed parc	Total	Total Treed	Improved	Improved
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Region	Total	Imprvd	Tr Parc.	Tr Parc.	Rating=%*5	sq. feet	Tot Sa Ft	/Imp Parcel	TreedParc	sqft/500	Acres	Acres	Acres	Treed Ac.
Sangres (all of West	Total	IIIpiva	ii raio.	mraio.	runing=70 0	34.1001	Tot. Oq.i t	/inpraice	Trecar are	3410000	710103	710103	710103	nccano.
Region, north to south)														
Brush Creek	78	51	78	51	3.3	42653	42653	836	836	1.7	540	540	332	332
Verdemont	110						60689		867	1.7				218
Pines	123		123				71184		1736	3.5		437	142	142
Taylor Creek	58	24		24		35307	35307		1471	2.9			182	182
Alvarado	119						78559		893	1.8		362	280	280
Hom Creek	55		55				33308		1074	2.1				97
Macey	58						26602		605	1.2			297	297
Colony	61	32		32			23793		744	1.5			139	139
Music Pass	16								782	1.6				35
Sangres Total	678	390		390		379137			972	1.0	2913			1721
oangres rotal	070	- 000	0/0	000	0		070107	012	072		2010	2010	1721	1721
Central														
Valley	1174	496	7	2	1.4	549588	680	1108	340	0.7	4257	72	13	13
North														
Reed Road	93	32	92	32	1.7	46184	46184	1443	1443	2.9	800	794	293	293
Bull Domingo area	643	156	31	2					1180	2.4				17
North Region Total	736			34		188202			1428		2544		604	309
Northeast														
Silver Cliff Heights &east	922	405	917	405	2.2	398672	398672	984	984	2.0	9242	9181	4039	4039
East														
East Hills	2046		2021	832			1042080		1252	2.5			4572	4507
Wetmore	195		178	124					1216	2.4			589	589
East Region Total	2241	977	2199	956		1217897	1192883	1247	1248		12774	12423	5160	5096
SOUTHEAST	_													
Wet Mountains	628	293	626	293	2.3	232099	232099	792	792	1.6	1547	1517	835	835
vvet iviouritairis	020	293	020	293	2.3	232099	232099	192	192	1.0	1347	1317	033	633
SOUTH		1	1	1		1					T	1	1	
Centennial Area	98	21	0	0	#DIV/0!	22347	0	1064	#DIV/0!	#DIV/0!	1113	0	281	0
						EEO II		1001					201	
OTHER NEIGHBORHOODS														
													404	124
OTHER NEIGHBORHOODS Government lands		24	20	6	1.5	23417	0	976	0	0.0	627	298	124	124
OTHER NEIGHBORHOODS Government lands (unidentified)	64			6		23417 23417	0				627	298 298		124
OTHER NEIGHBORHOODS Government lands	64													
OTHER NEIGHBORHOODS Government lands (unidentified)	64					23417		976	0			298		

This chart shows hazard ratings for SMALL PARCELS ONLY of all Landscape Neighorhoods, by Index 1, 2, and 3 (out of four total). Next page shows Index 4, and Total Rating.

NOTH Region Total SUMMARY - CUSTER COU								
Small parcels totals Note								SUMMARY - CUSTER COU
Avg.Ac								Feb. 5, 2007 index analysis
Small parcels totals					INDEX #4		weighted:	WILDFIRE HAZARD
Parcel Trid Parc = 1/AC-20 RATING TOT.TRAC Region Sangres (all of West Region, north to south)			Avg.Ac./	Avg.Ac/	ACRE SIZE	TOTAL	RATING	STATISTICS
Sangres (all of West Region, north to south) 7 7 2.9 10.9 5891 3 3 6.7 14.9 4909 4 4 5.6 12.4 5418 7 7 3.0 10.3 4037 2 3 6.6 15.9 5418 6 6 3.5 12.9 4313 4 4 4 9 11.8 2940 5 5 4.1 10.7 837 4 4 1 10.7 837 4 4 1 10.7 837 4 1 10.7 837 4 1 10.7 837 5 9 9 2.3 8.8 6974 3 13 1.5 4.4 1812 3 10 North Region Total North Region Total North Region Total North Region Total Silver Cliff Heights &east East 6 6 3.5 10.0 115533 6 5 3.9 13.1 11837 6 6 6 SOUTH Centennial Area OTHER NEIGHBORHOODS 10 15 1.3 4.9 1469 (unidentified) Total, other:		Cmall parada tatala			RATING		TIMES	
Region, north to south) 7 7 2.9 10.9 5891 3 3 6.7 14.9 4909 4 4 5.6 12.4 5418 7 7 3.0 10.3 4037 2 2 6.6 15.9 5764 3 3 5.8 13.3 2594 6 6 3.5 12.9 4313 4 4 4 9 11.8 2940 5 5 4 1 10.7 837 4 4 4 3 36637		Small parcels totals	Parcel	Trd Parc.	=1/AC*20	RATING	TOT.TR.AC.	Region
7 7 2.9 10.9 5891 3 3 3 6.7 14.9 4909 4 4 4 5.6 12.4 5418 7 7 7 3.0 10.3 4037 2 9 6.6 15.9 5764 Alvarado Hom Creek 3 3 3 5.8 13.3 2529 6 6 6 3.5 12.9 4313 4 4 4 9.9 11.8 2940 5 5 5 4.1 10.7 837 A 10 1.9 5.0 359 A 11 10 1.9 5.0 359 A 11 10 1.9 5.0 359 A 11 10 10 2.0 8.4 76886 B 10 10 10 2.0 8.4 76886 B 10 11 1533 B 13 1.5 1.5 1.3 1.9 11837 B 10 11837 B 10 115533 B	_							Sangres (all of West
3 3 6.7 14.9 4909 4 4 4 5.6 12.4 5418 Pines 7 7 3.0 10.3 4037 2 3 6.6 15.9 5764 3 3 3 5.8 13.3 2529 6 6 6 3.5 12.9 4313 Macey Colony Music Pass 4 4 4 9 11.8 2940 Colony Music Pass 4 4 10 1.9 5.0 359 Vertral Valley								Region, north to south)
4 4 5.6 12.4 5418 7 7 3.0 10.3 4037 Taylor Creek 7 7 3.0 10.3 4037 Taylor Creek Alvarado 3 3 5.8 13.3 2529 Hom Creek Macey Colony Music Pass Sangres Total			7	7	2.9	10.9	5891	Brush Creek
7 7 3.0 10.3 4037 2 3 6.6 15.9 5764 3 3 3 5.8 13.3 2529 6 6 6 3.5 12.9 4313 4 4 4.9 11.8 2940 5 5 5 4.1 10.7 837 4 1 0 1.9 5.0 359			3	3	6.7	14.9	4909	Verdemont
Alvarado Hom Creek 3 3 5.8 13.3 2529 6 6 6 5.5 12.9 4313 4 4 4 4.9 11.8 2940 5 5 4.1 10.7 837 837 837 838 839 839 83			4	4	5.6	12.4	5418	Pines
3 3 5.8 13.3 2529 6 6 3.5 12.9 4313 4 4 4.9 11.8 2940 5 5 5 4.1 10.7 837 Music Pass Sangres Total			7	7	3.0	10.3	4037	Taylor Creek
6 6 6 3.5 12.9 4313 4 4 4.9 11.8 2940 5 5 5 4.1 10.7 837 4 4 4 9 36637			3	3	6.6	15.9	5764	Alvarado
6 6 6 3.5 12.9 4313 4 4 4.9 11.8 2940 5 5 5 4.1 10.7 837 4 4 4 3 36637								
4 4 4.9 11.8 2940 5 5 4.1 10.7 837 Music Pass Sangres Total								
S S S S S S Music Pass								
4 4 36637 Sangres Total								
Central Valley								
4 10 1.9 5.0 359 Valley 9 9 2.3 8.8 6974 3 13 1.5 4.4 1812 Reed Road 10 10 2.0 8.4 76886 Silver Cliff Heights &east 10 10 2.0 8.4 76886 Silver Cliff Heights &east 6 6 3.5 10.0 115533 East Hills 6 6 5 3.9 13.1 11837 Wetmore East Region Total 1 #DIV/0! 0 Contennial Area 1 #DIV/0! 0 OTHER NEIGHBORHOODS 10 15 1.3 4.9 1469 (unidentified) 10 15 Total, other:							00001	Cangres retar
4 10 1.9 5.0 359 Valley 9 9 2.3 8.8 6974 3 13 1.5 4.4 1812 Reed Road 10 10 2.0 8.4 76886 Silver Cliff Heights &east 10 10 2.0 8.4 76886 Silver Cliff Heights &east 6 6 3.5 10.0 115533 East Hills 6 6 5 3.9 13.1 11837 Wetmore East Region Total 1 #DIV/0! 0 Contennial Area 1 #DIV/0! 0 OTHER NEIGHBORHOODS 10 15 1.3 4.9 1469 (unidentified) 10 15 Total, other:							1	Central
North Reed Road Bull Domingo area North Region Total			4	10	1 9	5.0	359	
9 9 2.3 8.8 6974 3 13 1.5 4.4 1812 3 10				10	1.5	3.0	333	valicy
9 9 2.3 8.8 6974 3 13 1.5 4.4 1812 3 10			_					North
3 13 1.5 4.4 1812 Bull Domingo area North Region Total			0	9	2.3	8.8	6974	
North Region Total North Region Total								
Northeast Silver Cliff Heights &east						4.4	1012	
10 10 2.0 8.4 76886 Silver Cliff Heights &east				10				North Region Total
10 10 2.0 8.4 76886 Silver Cliff Heights &east			_					Northoast
East 6 6 3.5 10.0 115533			10	10	2.0	0.4	70000	
6 6 3.5 10.0 115533 6 5 3.9 13.1 11837 6 6 6 S SOUTHEAST 2 2 2 8.3 14.9 22646 SOUTH 11 #DIV/0! 0 Centennial Area OTHER NEIGHBORHOODS 10 15 1.3 4.9 1469 (unidentified) Total, other:			10	10	2.0	0.4	70000	Sliver Cilli Heights &east
6 6 3.5 10.0 115533 6 5 3.9 13.1 11837 6 6 6 S SOUTHEAST 2 2 2 8.3 14.9 22646 SOUTH 11 #DIV/0! 0 Centennial Area OTHER NEIGHBORHOODS 10 15 1.3 4.9 1469 (unidentified) Total, other:			_	_				F
SOUTHEAST Wet Mountains								East
SOUTHEAST Wet Mountains				-		40.0	445500	F4 LEU-
East Region Total								
SOUTHEAST Wet Mountains						13.1	11837	
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2 2 8.3 14.9 22646 Wet Mountains SOUTH Centennial Area								COLITIEACT
SOUTH Centennial Area				<u> </u>		44.5	000/5	
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10 15 Total, other:								OTHER NEIGHBORHOODS
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						4.9	1469	
5 6 TOTALS			10	15				Total, other:
5 6 TOTALS								
5 6 TOTALS								
			5	6				TOTALS

This chart shows Index 4 and the total Index Fire Hazard Ratings for SMALL PARCELS ONLY of each Landscape Neighborhood.

Highest ratings are 1. Alvarado, 2a. Wet Mountains, 2b. Verdemont.

	SUMMARY - CUSTER COUN	TY NEIGHB	ORHOOD	s	PRIORITY OR	DER SUM	MARY							
					with known da	ata)								
	WILDFIRE HAZARD	·		,	rate*ac sums			PARCEL S	STATISTICS					
	STATISTICS	RATING		TOTAL	SUM OF			Sum of HA	ZARD RAT	INGS	PARCEL S	STATIST	rics	
statist		TIMES		TREED	THREE	avg.		By parcel s			EXPANDE			
latisi	Region	TOT.TR.AC	ORDER	ACRES	PRCL.SIZES	per acre	ORDER		MEDIUM	LARGE	SMALL		MEDIUM	order
	Sangres (all of West	10111111111	0.102.1	7101120		por doro	0.102.1	01117122		202	0.11.7 1.2.2	0.00.		U.GU.
	Region, north to south)										-			
	1. Brush Creek	41805		4621	46296	10.0	4b	10.9	10.1	9.9	65		61	
	2. Verdemont	9267	-	855	9844	11.5	1	14.9		11.2	90	2a		
	3. Pines	16304		1787		9.3		12.4		8.0	74		52	
	4. Taylor Creek	39981		4404				10.3		5.7	62		68	
	5. Alvarado	17283		1689		11.4	2			8.0	95			
	0.71741444													
	6. Horn Creek	16660	-	2247		8.0		13.3		11.6	80		38	
	7. Macey	14957		1690	16891	10.0	4a	12.9		8.0	78	3		
	8. Colony	23294		3113	28746	9.2		11.8		8.8	71		67	
	9. Music Pass	13474	_	2507	10303	4.1		10.7	8.1	3.4	64		49	
	Sangres Total	193025	3	22913	205843	9.0		0.0	0.0	0.0	0		0	
	Central													
	17. Valley	21083		2739	18617	6.8		5.0	10.0	5.8	30		60	1
	North													
	10. Reed Road	62008		6533		9.7		8.8		5.1	53		66	
	Bull Domingo area	118145	4	18618	143734	7.7		4.4	11.1	5.0	26		67	3t
	North Region Total													
	Northeast													
	12. Silver Cliff Heights &eas	259519		41242	360016	8.7		8.4	9.9	8.3	50		60	
	12. Silver Cilli Heights &eas	259519		41242	300010	0.7		0.4	9.9	0.3	30		60	'
	East													
	East													-
								40.0	40.4	2.0				
	14. East Hills	267257	. 1	33097	300676	9.1		10.0		8.0	60		61	
	13. Wetmore	99765		13070	98071	7.5		13.1	8.7	6.7	79		52	
	East Region Total													
	SOUTHEAST													
	15. Wet Mountains	49580		5214	53984	10.4	3	14.9	7.6	8.8	90	2b	45	
	SOUTH													
	16. Centennial Area	455		40	255	6.4		0.0	6.4	0.0	0		38	
	OTHER NEIGHBORHOODS													-
	GOVT LANDS	#DIV/0!		188385	0	0.0		0.0	0.0	0.0	0		0	
		#DIV/0! 35466						4.9			30		31	
	(unidentified)	35466		12152	34879	2.9		4.9	5.2	2.1	30		31	-
	Total, other:													-
	TOTALS		TOTALS	344004							_			-

This chart shows Parcel Statistics for Hazard Ratings, and Expanded Rating (100 point scale). Highest Fire Hazard Ratings were for SMALL PARCELS, in this order: 1. Alvarado 95 points, 2a. Wet Mountains 90 points, 2b. Verdemont 90 points.

Conclusion: The land parcel statistical analysis indicates SMALL PARCEL areas of the County are most at risk. Priority areas for treatment are those with highest ratings in this parcel size category.

B. WILDFIRE HAZARD RATING FORM (map review and analysis.) Second potential 100 points of rating.

After the statistical analysis, GIS maps and layers were acquired from several project partners to cover the whole county with land parcel data, such as plat layouts, topography, aerial photography, tree cover, fire behavior model, and roads. This GIS information was put into a PowerPoint presentation and shown in detail for an intensive total-county analysis, neighborhood by neighborhood, by five agency and community review groups in separate meetings in May, 2007.

A revised assessment form was used, and input was based on the GIS maps and personal observations and professional experience of the review teams. See **Appendix** for the **Wildfire Hazard Rating Form** obtained from the Colorado State Forest Service and modified for a visual and community-knowledge analysis of each Neighborhood. The combined analysis of the review teams formed one-half of the full wildfire hazard rating, to be combined with the above other one-half, being the county land parcel statistical data analysis.

The reviews were summarized and are presented in the following table.



WILDFIRE	E HAZARD RATING	FORM	CU	STEF	R CV	VPP	2007	7												
SUMMAR	Υ																			
Rating Gro	oup		1	2	3	4	5		6	7	8	9	10	11	12	13	14	15	16	
WMtnFD			69	77	58	60	69		70	70	93	69	63	56	80	80	64	89	47	
BLM-USF	S		73	76	69	63	72		64	64	95	69	68	60	87	85		102	46	
Sanlsabel	Trst		75	71	63	66	66		62	62	81	70	62	55	77	76	67	74	48	
Utilities-Er	merg-Foresters		83	77	73	72	80		70	70	87	78	78	59	85	89	68	88	51	36
Realtors			75	74	59	65	73		72	72	83	82	83	54	86	87	69	86	49	
																			-	
		average	75	75	64	65	72		68	68	88	74	71	57	83	83	69	88	48	
		order	3	3							1				2	2		1		

By the HAZARD RATING FORM map review, highest rated areas (both priority order #1) were Landscape Neighborhoods #8 Colony and #15 Wet Mountains – San Isabel. The ratings shown are for all parcel sizes in each Landscape Neighborhood.

Combining the county statistical data with the review group hazard form ratings, an overall rating was calculated (see table below.) Six overall priority "Landscape Neighborhoods" were ranked: 1. Wet Mountains, 2. Verdemont, 3. Colony, 4. Alvarado, 5. Brush Creek (tied with Silver Cliff Heights), and 6. Reed Road. The first five are in the Wildland Urban Interface (WUI), being adjacent to or surrounded by National Forest. Plus hazards grew in 2007 in #1. Wet Mountains due to many blowdown areas (see maps of USFS Greenhorn Mountain Blowdown in Appendix.)

It is important to note that several of the combined ratings were only a few points apart, and that all the "landscape neighborhoods" of the County had portions showing extreme wildfire risk. All are identified in this CWPP, with suggested strategies for each area shown with the maps in the Appendix.

	SUMMARY - CUSTER COUNTY NEIGHBO	RHOODS									
Overall	Feb. 5, 2007 index analysis	avg/ac rate		Rating							
Overall	WILDFIRE HAZARD	all size		Form		OVERALL	RATING				
Ratings &	STATISTICS	Parcels		ALL SIZES		Rating					
	AND RATING FORM RESULTS	(x6) rating	order		order	Total	order		TOTA	AL TREED A	ACRES
Priorities	Region	"A"		"B"		"A" + "B"			SMALL	MEDIUM	LARGE
1	Sangres (all of West										
	Region, north to south)										
	1. Brush Creek	60	4	75	3	135	5	WUI	540	648	3432
	2. Verdemont	69	1			144	2	WUI	329	257	269
	3. Pines	56		64		120			437	685	666
	4. Taylor Creek	54		65		119			393	2299	1712
	5. Alvarado	68				140		WUI	362		600
	6. Hom Creek	48		68		116			190		468
	7. Macey	60				128			334		660
	8. Colony	55		88		143	3	WUI	250		2611
	9. Music Pass	25		74		98			78	243	2186
	Sangres Total	54							2913	7395	12605
	Central										
	17. Valley	41				41			72	649	2018
	North										
	10. Reed Road	58		71		129	6		794		1104
	11. Bull Domingo area	46		57		103			413	8239	9966
	North Region Total										
	Northeast										
	12. Silver Cliff Heights &east	52		83	2	135	5		9181	9817	22244
	Foot										
	East										
	14. East Hills	55		69		124			11522	5724	15852
	13. Wetmore	45		83	2	128			902	2291	9877
	East Region Total										
	SOUTHEAST										
	15. Wet Mountains	62	3	88	1	150	1	WUI	1517	913	2784
	SOUTH										
	16. Centennial Area	38		48		87			0	40	0
	OTHER NEIGHBORHOODS										
	GOVT LANDS	0							0	-	0
	(unidentified)	17							298	601	11253



Density areas in these landscape neighborhoods:

- 1. Wet Mountains: Hwy 165
- 2. Verdemont
- 3. Colony

And: 4. Alvarado, 5. Brush Creek, 6. Reed Road

Step Six: Establish Community Priorities and Recommendations

The hazard ratings and detailed analysis of the Landscape Neighborhoods led to the following three county-wide, community priorities and associated recommendations:

1. WILDFIRE CONDITIONS ARE EXTREME AND MORE PEOPLE ARE AT RISK Especially in our numerous older subdivisions (generally with small parcels) and recreational camps that have:
☐ More highly ignitable structures
☐ Higher density of structures
☐ Increasing numbers of structures with increasing summer and year-round residents ☐ More retiree residents with possible handicaps, difficult access, and remote communication ☐ High, increasing, and concentrated short-term visitor use of recreational camps and forests ☐ One-way in and one-way out access with few fire protection, safety, or escape routes
Narrow and sometimes-steep roads
☐ Dense forest and brush vegetation, 100 years of accumulating, slow-decaying biomass ☐ Areas close to or downwind of continuous and overgrown forests
□ Lightning-prone areas associated with lightning-ignitable vegetation and structures.
ALL THESE CONDITIONS WARRANT COMMUNITY-WIDE EFFORT TO
UNDERSTAND AND CORRECT / MODIFY.
of fire, growth, slow decay, lack of use) and encourage action now and annually. b. Organize access and fuel modification projects in the Wet Mtn/San Isabel and Alvarado high-density neighborhoods. c. Identify the risk to firefighters from un-mitigated structures, access, and vegetation and warn owners of their resulting emergency status resulting from non-defensible property.
2. IMPORTANT COUNTY INFRASTRUCTURE IS AT RISK
□ Critical Community Infrastructure is in danger, specifically the Oak Creek Grade Powerline □ This is the community's highest wildfire-hazard priority, as most Valley residents get electrical power from this single line
□Long-term fuel modification strategies are obviously needed for the powerline: □A. Under it (on utility legal easement)
□B. Adjacent properties□C. Continuous fuel valleys or fuel "chimneys"
Recommendations: a. Organize special efforts protecting the main Valley powerline. b. Enlist private/ public utility providers and the Public Utilities Commission (P.U.C.) in the planning and mitigation process.
Recommendations: a. Organize special efforts protecting the main Valley powerline. b. Enlist private/ public utility providers and the Public Utilities Commission (P.U.C.) in the planning and mitigation process. 3. OTHER HIGH-VALUE COMMUNITY ASSETS ARE AT RISK
Recommendations: a. Organize special efforts protecting the main Valley powerline. b. Enlist private/ public utility providers and the Public Utilities Commission (P.U.C.) in the planning and mitigation process.

□ Watersheds, water resources, and important downstream water supply treatment and delivery improvements, water storage facilities, property improvements, and other resources □ Wildlife / wildlife corridors
□ Forests / wilderness and ecological environments (see USFS Wildland Fire Use Policy). Recommendations: Organize special high-priority protection for many valuable community resources at risk, especially camps, communication towers, and water systems. Include defensible space, improved access, and mapping of structure locations for fire district. Also include mapping critical environmental features to protect.
Step Seven: Develop an Action Plan and Action Assessment Strategy
□ A public meeting was held on July 17, 2007, to review priorities, and to plan risk and hazard strategies.
☐ Strategies were decided to coincide with the Risk/Hazard Assessment and Priorities. ☐ Highest benefit at lowest cost actions for broad private and public application were emphasized.
☐ Included community input to National Forest, BLM, and private land. ☐ Communication with the federal agencies was especially timely due to the imminent U. S. Forest Service, Pike-San Isabel National Forest planning cycle.
These are the Actions discussed at the public strategy meeting:
Action #1. AGREE THERE ARE COMMON CONCERNS FOR ALL AREAS OF COUNTY We have common concerns and threats that link all interests of the County Prevention /protection plans are needed that are useful for all neighborhoods Separate mitigation implementation plans are needed for each small neighborhood Strategies need to be labor and task oriented to increase participation and enthusiasm. Economics is only one aspect.
Recommendation: Have the CWPP continuing process address strategies that can be used by every landscape neighborhood, and then specifics tailored to each smaller neighborhood.
Action #2. EACH LEVEL OF COMMUNITY ORGANIZATION NEEDS TO TAKE ACTION County Fire Department Landscape neighborhoods
 □ Small neighborhoods/ subdivisions □ Smallest scale action may be the most practical approach □ Apply actions by individuals to help fix larger problems ➤ Especially apply wildfire hazard reduction standards to new homes and driveways by active educational effort and possible inclusion in permits/ regulations – including specific improvement measures, such as Class A roofing, minimum driveway width and maximum grade, and fuel modifications around structures.

-- Recommendation: Involve each part of our community, from County authority down to the smallest scale of neighborhoods.

Action #3. SET FIRST PRIORITIES FOR ACTION BY LIFE THREATS, as follows:

- □1. Access and escape/ evacuation routes (trim, widen, and improve roads and driveways)
- □2. Ability to fight fire (water sources, fuelbreaks, individual homesite defensible space, fire dept. preparedness)
- □3. Imminent fire danger and severity (localized extreme fuel loading, high winds)
- □4. Location, type of materials and orientation of structures.
- □5. Emergency contact system for people in wildfire zones.
- -- Recommendation: Evaluate most important of these for each neighborhood.

Action #4. DETERMINE PRIORITIZED FUEL TREATMENTS, WITH LEAST COST AND MOST PROTECTION FIRST, using these recommendations:

- □a. Thin/ otherwise reduce vegetation 50-100 feet (150 feet on steep slopes), on both sides of roads in forests
- □ b. Restore natural and new meadows, starting with small tree and brush reduction first
- □c. Create fuel breaks using "Zone 2" Defensible Space (see Note) treatments for fuel reductions on perimeters of dense forest and dense structure subdivisions and on both sides of main powerlines, overlapping property boundaries in cooperative projects.
- □d. On the Sangres, thin a buffer along the boundary of National Forest with private lands uphill at least 100 yards or to the Rainbow Trail (similar to c. above), preferably in conjunction with similar projects downhill 100 yards on private lands (total width of fuel break 600 feet.)
- □e. Create individual Defensible Space and treated structure ignition "Zones 1 and 2" (see Note) around homes/ structures (these work, as evidenced in many recent Colorado wildfires!)

 Note: See CSU- Cooperative Extension Publication No. 6.302, Creating Wildfire-Defensible Zones (in Appendix). Understand and follow the descriptions of the three defensible space management zones, including detailed forest treatment prescriptions, beginning with Zones 1 and 2 (shown in this publication) nearest homes, and extending into Zone 3 at a distance from homes
- -- Recommendation: Pick most effective and practical fuel treatments for each neighborhood local CWPP, and determine their priorities -- some as neighborhood community projects and others as individual owner projects.

Action #5. USE PREFERRED FUEL TREATMENT METHODS AND TYPES

- a. Thin for aesthetic forest vegetation treatments, rather than clearing tall forests, and more economically utilize forest materials to lower treatment costs.
- b. Remove, chip, or pile-burn small trees and brush for aesthetic fuel breaks and ladder fuel reduction, and for improved escape routes and safe zones
- c. Control brush, sprout, and tree regeneration by prescribed burns, mechanical cutting or mowing, and possibly environmentally safe chemicals
- d. Allow controlled wildland fire use on National Forests, especially Wilderness Areas to lessen massive fire hazard threats to "landscape neighborhoods" and restore ecological balance.
- -- Recommendation: Consider these preferred treatments as projects are designed.

Action #6	. ENCOURAGE	TREATMENT (OF STRUCTURE	IGNITABILITY ,	by these
recomme	nded priorities:				

- □ 1. Roofs materials and treatments, on new structures and changes + vents/ valleys / gutters
- \square 2. Walls materials and treatments for exterior siding to be less flammable
- □3. Debris close or on structures educate and remind owners about annual maintenance
- -- Utilize publication "Wildfire and Your Forest Home Reduce the Risk" by Wet Mountain Fire Protection District (in Appendix.)
- □4. Projections stairs, decks, porches made of flammable material (wood) and in direct contact with vegetation of any kind, create a link between wildland fuel and homes. Break this link with concrete pads, rock, non-flammable landscaping.
 - -- Recommendations: Treat debris annually, and modify roofs and walls as needed. Use non-flammable material and landscaping to separate structures from wildland fuels. Educate builders and landowners on new construction standards to mitigate structural ignitability.

Action #7. DEVELOP FIRE-FIGHTING WATER SOURCES, especially near or in dense land parcel neighborhoods.

- □ 1. Access to ponds by fire department trucks
- □2. Install draft (water pumping) facilities
- □3. Mapping of installed facilities and access for fire department
- □4. Maintain each year all installed facilities
- □5. Identify and helicopter-use draft ponds, including mapping locations and capacities
- -- Recommendation: Include these considerations in each neighborhood's local CWPP.

Action #8. CONTINUE THE CWPP PROCESS IN THE FUTURE.

- □--Initiate a Custer County CWPP office or a private CWPP management/ coordination contract.
- □--Involve the Zoning Office and CSU Extension for landowner information.
- □--Actively coordinate, organize, monitor, and map wildfire protection plans and activities with the Colorado State Forest Service and private forestry companies.
- □-- Assist private landowners with comprehensive services addressing all aspects (organizing and action) of actual property and forest treatments/ clearing/ cleaning, fuel mitigation, fire breaks, fuel barriers, etc., including most effective economics through use of materials and incentives for both landowners and forest product companies.
- □--Notify authorities and participants of significant CWPP changes, upgrades, and advances toward prevention and protection as they happen.
- □--Establish a date by which annual review of the CWPP will be completed (suggested is October 1st of each year.)
- -- Recommendations: Seek HFRA and other grant funding to initiate such an effort in Custer County. Also, seek diverse funding and spread the use of funding in a diverse manner.

C	#9. COORDINATE SMALLER NEIGHBORHOOD, OR LOCAL CWPP'S ☐ Organize associations for small neighborhood local CWPP's, using GIS data, and facilitate cost share grant applications with the Colorado State Forest Service in collaboration with private foresters.
t	Do annual updates with County landowner data/ parcel maps, and other GIS map data from he USFS and BLM.
	☐ ☐ Join adjacent subdivisions, private / public forest management, and fuel reduction projects for maximum results. Map results on GIS each year and present progress report to the public.
	- Recommendation: Develop smaller neighborhood CWPP's to organize practical action on the ground.
	#10. FURTHER USE GIS MAPPING DETAILS AND DATA TO ORGANIZE AND K CWPP IMPLEMENTATION
	☐ Identify parcels with defensible space ☐ Encourage multiple parcels in local neighborhoods to combine defensible space projects for
	ower costs
	Plan and GIS map subdivision-wide projects
	□ Water storage + Evacuation routes
	□ Common or jointly owned area thinning and care □ Perimeter fuel reductions
	Updated lightning-strike data including positive-lightning ignition risk.
i f	- Recommendation: Use GIS data to identify neighborhoods and to monitor implementation success. Use the computer and GIS software obtained with grant funding for the Custer County Zoning office as a result of the Custer County CWPP process in 2007.
Action # GROUI	#11. DEVELOP A FOREST FUELS MITIGATION CONTRACTOR AND SERVICE
	Maintain by the County a list of fire hazard mitigation companies, keeping public informed
ť	hat fire hazard mitigation is important and that the list is available at the Zoning Office.
	□ Voluntary participation listing updated and distributed by the Zoning Office.
	☐ Include important business information, including work force and equipment and services
	business. □ □ Encourage private project coordination and activities by service groups related to fire
mitigatio	
-	- Recommendation: Use the Contractor / Service Group List to encourage such

-- Recommendation: Use the Contractor / Service Group List to encourage such businesses and to help connect businesses, service groups, and potential customers seeking fire hazard mitigation services.

Action #12. HAVE THE COUNTY USE MANY METHODS TO PROMOTE AND MONITOR ACTION

Recognition program fire hazard mitigation projects in the County by:
□Individuals
Companies
□Organizations □Agencies
☐ Recognize achievements of public and private forest stewardship plans and map results.
□ Track landfill records of slash disposal loads and volumes, with optional survey of source projects to put into GIS maps and data. Publicize achievements and biomass use potential. □ Include landowner educational and interest surveys in tax notice and assessment mailings, and include in zoning permit package. Also, have these available in realtor, government, and Chamber of Commerce offices.
□ Adopt County minimum standards for requirements/ inspections/ plans/ or certifications for wildfire defensible space, driveway, and perimeter treatments for new homes and new/ existing subdivisions as part of zoning permits and plat approvals, and possibly adopt a "pest ordinance" (see below) regarding implementation of critical forest health and wildfire hazard mitigation projects.
□ Evaluate forested land parcels and notify annually (in tax valuation notice mailings) owners of non-defensible properties of their emergency status regarding fire fighter safety and response. Example: "Your property / subdivision has been identified as high risk for emergency wildfire protection. Please call for an explanation and information package on mitigation. Let us know of status changes and request for re-evaluation. This information is maintained for emergency responders."
manualized for emergency responders.
Recommendations: a. Implement educational and achievement recognition programs by Custer County government. b. Adopt minimum wildfire fuel, forest health, and access treatment standards for new construction and subdivisions. c. Adopt a system identifying highest-risk parcels and notifying owners.
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□ E. Facilitating and encouraging more commercial, economic, ecological, and
sustainable high-value solid-wood forest products and high-volume / low-value woody
biomass uses (such as for energy) through coordinated interests of small business, forest
manager, forest owner, county government, public agency, schools, and the community
□F. Identify and enlist users for fuel harvested by mitigation efforts

- Note: Initial forest statistics from 1983 USDA Forest Service data (see "Colorado's Southern Front Range: Forest Statistics for State and Private Land," 1983, by Roger C. Conner and William T. Pawley, USDA FS Resource Bulletin INT-43) for Custer County private forest lands: 76,721 acres. Standing forest biomass volume: 87,736,000 cu. ft. (about 877,360 cords, or 11.44 cords per acre). Annual growth 1.9%: 16,800 cords (approximately 0.22 cord/acre, or 8.8 cords annual growth per 40 acres of trees). Predominant tree diameters needing treatment are under 12 inches (small diameter trees). Estimated current economically beneficial use (per Len Lankford, local private foreseter): less than 1,000 cords per year (or 6% of private forest growth.)
- Further information from the USFS San Carlos District obtained in December, 2007, confirms there are overwhelming volumes of forest growth accumulating on National Forest lands in Custer County. Mike Smith, forest planner, (per email dated 12/18/07) did some very rough calculations of forestland and its wood fiber accretion along the base of the Sangres in Custer County, between the National Forest Boundary and the Rainbow trail. These calculations indicate there are approximately 6770 acres of National Forest land in this zone, with 5315 acres in forest, and it is growing approximately 50 to 55 cubic feet of wood fiber per year. This means an accretion of 292,325 cubic feet per year, with historical removal since 1997 being a rate of only 30,000 cubic feet per year. This removal rate is only 10% of growth in this zone, and the data confirms extreme accumulations of fuel are occurring on National Forest Lands. Statistics for other public land forests in Custer County are expected to illustrate even more long-term forest inventory vs. use problems.
- Therefore fuel accumulating by net annual growth is extreme and compounding each year on both private and public lands. Local forests also commonly have 100 years of growth backlog. It is important that professional localized Forest Stewardship Management Plans and localized neighborhood community wildfire protection plans include similar inventory statistics for management planning in order to balance use with growth on both private and public lands.
- -- Recommendation: Use a long-term forest master plan to balance forest fuel accumulation and reduction needs with economic uses of materials.

Action(s) #14. FURTHER RESULTS OF THE PUBLIC COLLABORATIVE CWPP STRATEGY MEETING ON JULY 17, 2007 (in attendance were landowners, BLM forester, private foresters, fire department member, and two county commissioners):

□1. Fc	or the main powerline to the Valley, and other powerlines
First:	□ a. County needs to get involved with Power Company to emphasize importance
	□ b. Public communication to Power Company on importance
	□ c. Educational effort for landowners with right-of-ways or adjacent to powerlines
Then:	
	□ a. Put a CWPP in place for electric lines with utility and landowner cooperation

inspection
□ c. Investigate re-establishment of a loop (or backup) for electrical transmission to the Valley via Cotopaxi or Texas Creek
□2. Collaborative fuel reduction and full CWPP projects on two WUI areas: a. Wet Mountains (Hwy 165San Isabel area) and b. Alvarado
These two areas achieved public-meeting CONSENSUS AS THE TOP TWO PRIORITY, HIGH-RISK AREAS , especially because they are in critical WUI areas, and projects there will be highly visible and will be the best candidates to show results of community and agency cooperation. SPECIFIC FEDERAL ASSISTANCE ON ADJOINING AND NEARBY FEDERAL LANDS IS REQUESTED.
□3. Associate wildfire risk with forest health, beetle, and large tree mortality areas (all showing
poor forest management): Publicly review, for educational, serious consideration, and possible implementation purposes, a "Pest Ordinance" that the County could adopt for all parcels according to State Law, especially for current and serious problems. This type of ordinance is used in other counties, for example, to require removal of trees infested with live mountain pine beetles, with the penalty for no action being that the county gets the work done and bills the landowner, placing a lien against the property if unpaid. Could this be extended to critical fire hazard removal, such as areas of dead trees or dense "ladder" fuels? Voluntary compliance is recommended at this time. Voluntary or mandatory may ultimately be a question decided by a growing importance of forest issues in our community, and by the degree of action inspired by a large educational effort. Very effective education may result from educational "warnings" or sending notices of poor ratings for emergency preparedness (see #12 above.) Even this approach may be controversial in our community, so should not be heavy-handed or implemented without public review and consensus.
\Box 4. Target high-risk landowners – send letters with statistics, maps, and information. See #12 above.
□5. Use available BLM funding and WMV Community Foundation for community education and for creating neighborhood CWPP's, in cooperation with private foresters and the Colorado State Forest Service. Also see #9 and #10 below.
☐ 6. Landowners should participate in the process by identifying FS and BLM lands that are high risk to private lands.
□ 7. Include a lightning-strike study and map in the CWPP for ignition likelihood, including areas prone to more ignition-hazardous positive lightning.
□8. Activate a Countywide, County-sponsored, comprehensive, full-community educational campaign, funded initially by government grants and private donations and eventually by new funding mechanisms (see #9 and #10 below for options), as follows: (Note: The consensus of meeting participants was that an educational campaign, with

(Note: 1 ne consensus of meeting participants was that an educational campaign, with economic incentives, is the most feasible and economic way to get action.)

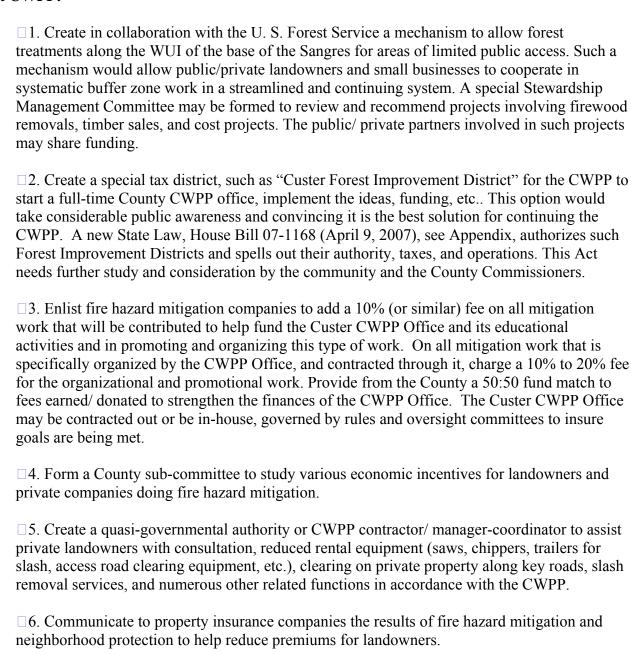
a. Identify completed projects to show what can be done, featured with tours □ b. Newspaper information inserts, locally oriented, in collaboration with USFS, BLM, CSFS, and private foresters □c. Series of stories and information articles, each year – spring, summer, fall. Include publicity about all facets of the plan and its modes of action. □d. Use a PR low-cost award system by County for fire hazard reduction completions (certificate, plaque, public recognition and events). Use Fire wise Program materials. □e. Link to any other building & home construction code or educational campaign of County and add to educational materials/ courses in the Custer County School □ f. Include flyer/ info. in every County mailing (taxes due, assessments) and list ideas, incentives, and rewards for fire hazard reduction projects. ☐g. Use the existing "Brighten the Sangres" trail cleanup event idea for high-risk area community projects. This could start with an annual event to clean the Oak Creek Grade utility right-of-way, complete with community potluck, recognition, etc.. □h. Arrange meetings with power-company officials to promote "clean up" of 1 mile, and bring neighbors for a walk / tour for site selection and planning. □i. Organize an "Adopt a County Road" program that includes fire issues as well as roadside cleanup projects. □i. Tour old fires, meet at local fire stations, include fire dept. and equipment. □ k. Set up information booths at Chamber of Commerce, Fire Dept., Courthouse, Library, Realtors, School, U. S. Forest Service office, and forestry businesses. □1. Create and maintain a web site for explaining the CWPP, implementation measures, and progress, as well as to provide for discussion and upgrading the CWPP. m. Provide a free day each week at the county landfill for landowners to dump slash. □n. Seek better alternatives to open burning of dumped slash/ biomass at the landfill. □ 9. Form an NGO (Non-Government-Organization, a non-profit), "Custer Community Forest Association" to sponsor the educational effort, raise funds, and eventually run the Custer CWPP Office. Or have an existing non-profit do this. This NGO may be considered for the CWPP management-coordination contract. □ 10. Establish a "Save the Sangres Forests" fund or "Custer Forest Fund," in the NGO above or in an existing community non-profit, to be used to fund the Custer CWPP Office or Management-Coordination Contract, and to fund, subsidize, and provide incentives for a diversity of projects and approaches per an open, highest benefit/cost proposal system and as decided by a board of directors. Solicit government grants and private donations to this Fund. Also, solicit donations or per-acre voluntary fees or assessments from local neighborhoods for Forest Improvement Funds specific to those neighborhoods. These Funds would cost-share qualifying projects as determined by objective criteria and priority areas, possibly on a firstcome, first-serve basis. □11. Involve other organizations, such as Ridge-Top Fire Spotters, San Isabel Land Protection Trust, for more mapping and other technical assistance.

Step Eight: "Finalize" Initial Community Wildfire Protection Plan

On AUGUST 21^{ST} 2007, a public meeting was held for review of this Plan, asking for more suggestions, comments, and revisions. This meeting's input, agency, and numerous other

participant follow-up edits and reviews were used to improve the Draft Custer County CWPP in September 2007.

These are the additional Action ideas and study recommendations coming from review of the Draft CWPP:



CONCLUSION: THE CWPP ACTION PLAN FOR 2008:

The following conclusions are recommendations for the Custer County CWPP Action Plan:

1. Create a charter for and appoint a Custer County CWPP Commission (or Council) that includes community leaders, forest practitioners, and local fire and government representatives, which will serve as an advisory board to the Custer County CWPP Coordinator (see below.)

The Custer County CWPP Commission could organize as a new 501c3 nonprofit organization or as an affiliate of an existing Custer County nonprofit organization, or as a County agency.

The Commission/ Council will research and study the Forest Improvement District Act, non-profit organization designations, state and county regulations, private landowner incentives, and other CWPP implementation ideas to determine the most advantageous structure for the Custer County CWPP Commission/ Council.

Recommendations for a permanent organization to drive CWPP action will be presented to the Custer County Commissioners by the end of 2008.

- 2. Seek grant funding for the County from the Healthy Forests Restoration Act, the BLM, the U.S. Forest Service, and other sources by a specific proposal to initiate the following:
 - a. Activate a County CWPP Office with a contracted CWPP Coordinator responsible to the Commissioners. This Office, with help provided by the Custer County Zoning Office and the CWPP Commission (see above), will coordinate and support mailings, information, low-cost high-benefit education, and CWPP actions per the CWPP recommendations and b-f below.
 - b. Organize the GIS database and maps, specifically targeting the two priority Landscape Neighborhoods (Alvarado and San Isabel) as well as enhancing general countywide capabilities.
 - c. Support writing two specific targeted priority Neighborhood CWPP's by Fall 2008.
 - d. Demonstrate cost-share projects in the above two priority areas, in collaboration with U. S. Forest Service, Colorado State Forest Service, and private forestry companies, for initial projects starting in 2008 and completing in 2009 and for program continuation in other years. Also seek federal agency collaboration on adjacent public lands.
 - e. Organize specific educational projects including bi-annual mailings and information packets, maintain contractor/volunteer lists, organize and promote free slash and biomass use day at the Landfill, attend public events with educational displays and programs, write newspaper articles, and develop achievement recognition and economic incentives and more.
 - f. Organize fire hazard mitigation under and along the main power line to Wet Mountain Valley.
 - g. Organize sessions for public comment on the voluntary and regulatory options available to Custer County to create CWPP awareness/action and to gauge community support and reaction.