

Invasive Plant Grant Program  
2014 Grant Application-ASFD

FOR OFFICIAL USE ONLY	
Dollar Amount Requested:	<b>\$18,581</b>
Matching Share:	<b>\$18,650</b>
Percent (%) Matching	<b>50%%</b>

Applicant Information	
<b>Applicant:</b>	Mt. Lemmon Homeowners Association
<b>Contact Person:</b>	Lindy Brigham
<b>Address:</b>	2827 E. Weymouth Cir.
<b>City/Zip Code:</b>	Tucson / 85716
<b>Phone (Work/Cell):</b>	520-626-8307 / 520-955-2599
<b>Email:</b>	labrigham@msn.com
<b>Fax:</b>	520-621-7186

Project Information			
<b>Name of Project:</b>	Cheatgrass Mitigation for Fire Protection		
<b>Community Name:</b>	Summerhaven		
<b>County:</b>	Pima	<b>Congressional District:</b>	2
<b>Latitude (decimal degrees):</b>	32.442139	<b>Longitude (decimal degrees):</b>	-110.759583

Grant Contributors (Matching Share)							
(Federal dollars DO NOT qualify)							
Please specify each match contributor and the dollar amount of each contribution.							
Please DO NOT show grant requested funds in this table. This is for matching share only.							
<b>Contributors:</b> (Please specify)	MLHOA	LSHOA	MLWC	MLFD	UA/SNRE		<b>TOTAL</b>
<b>Dollars (Hard Match):</b>	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$ 0</b>
<b>In-Kind (Soft Match):</b>	\$11,530	\$1,800	\$320	\$4,040	\$960	\$0	<b>\$18,650</b>
<b>TOTAL:</b>	<b>\$11,530</b>	<b>\$1,800</b>	<b>\$ 320</b>	<b>\$4,040</b>	<b>\$ 960</b>	<b>\$ 0</b>	<b>\$18,650</b>

Total Project Expense (break down matching share totals from block three)				
	Grant Share (\$ Amount Requested)	Match (from block three)		TOTAL
		Dollars	In-Kind	
<b>Personnel / Labor:</b>	\$0	\$0	\$14,650	<b>\$14,650</b>
<b>Operating / Supplies:</b>	\$4,450	\$0	\$0	<b>\$4,450</b>
<b>Travel:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>Contractual Services:</b>	\$9000	\$0	\$0	<b>\$9,000</b>
<b>Equipment:</b>	\$5,131	\$0	\$4,000	<b>\$9,131</b>
<b>Indirect Costs:</b>	\$0	\$0	\$0	<b>\$ 0</b>
<b>TOTAL:</b>	<b>\$18,581</b>	<b>\$ 0</b>	<b>\$18,650</b>	<b>\$37,231</b>

<b>Project Summary</b> (check all that apply and answer related questions in appropriate box)			
5	Is this a new project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	What is the duration of this project? (24 month maximum) 24 months		
	Number of acres to be treated:	100	Estimated cost per acre: \$90.00
	Are the acres to be treated contiguous (adjacent to each other)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, please describe their layout in block six (6).		
	Does this project have a current invasive/noxious plant management plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please attach the plan to this application.		
	Is this project managed by a professional land manager? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please provide qualifications in block six (6).		
	Number of communities directly affected by this project:	1	
	Number of citizens to be reached:	500	
	Number of residences affected:	300	

<b>Project Area Description</b>	
All information for the project should fit into the allotted character space provided below. Addendum may be submitted if more space is needed.	
6	<p><b>Provide an overview of the project and the project area.</b> 2500 characters</p> <p>The unincorporated community of Summerhaven is located at approximately 8,000ft. on Mt. Lemmon within the Santa Catalina Ranger District of the Coronado National Forest north of Tucson Arizona. There are 450 acres of privately owned property, and the areas receives nearly 1 million visitors throughout the year. In June of 2003, the Aspen Fire destroyed the business district and three quarters of the cabins. Grass seed was sown by air and straw bales were placed on the burned slopes to prevent wide scale erosion. The following year, cheatgrass was identified for the first time in the village of Summerhaven. Cheatgrass (<i>Bromus tectorum</i>) is an annual grass that was accidentally introduced into the US through contaminated wheat seed. It has become established throughout the Great Basin and threatens many of our public lands through its extreme flammability. It outcompetes the native grasses and replaces them with a continuous blanket of fire prone material. Since cheatgrass was first identified, Trees for Mt. Lemmon (T4ML - a non-profit formed by several Mt. Lemmon residents after the Aspen Fire to aid the residents in recovery) worked with the community to develop a program to manage the infestation. Door hangers and other educational material were created to inform the community of the issue and solicit help in combating the infestation. Seed packets with native flowers and grasses were distributed in an effort to re-vegetate burned areas with native plants, limit erosion, and preclude cheatgrass establishment. To date, we have been unsuccessful in completely limiting its spread. Areas that have received regular treatment, either by spraying or pulling or both have seen a dramatic decrease in cheatgrass establishment and some can be declared cheatgrass free. But some areas have received little or no attention and the problem continues to spread, putting the past effort at risk and allowing the continual increase in acreage infested. A concerted two-year effort is required to kill/remove the plants from the private lands to bring the infestation to the level that residents can manage it. Within the 450 acres of private land, approximately 100 acres of cheatgrass have been mapped. This project will treat the 100 acres of known cheatgrass (map attached) for two seasons, identify other infestations not yet mapped, and develop an ongoing and sustainable maintenance program for the community for the future.</p>
	<p><b>Briefly describe the qualifications of the person(s) managing this project.</b> 500 characters</p> <p>Dr. Lindy Brigham, is a plant pathologist who helped form Trees form T4ML and has been working in Summerhaven since the Aspen Fire to help the residents recover from the fire damage. When cheatgrass was identified, she worked with T4ML to include cheatgrass education and management into the mission. She is also the Executive Director of the Southern Arizona Buffelgrass Coordination Center and has extensive experience in volunteer coordination and invasive grass mitigation.</p>

<b>Project Goals and Objectives</b> <small>All information for the project should fit into the allotted character space provided below.  Addendum may be submitted if more space is needed.</small>	
7	<p><b>Provide a brief description of how this project meets the grant objectives and goals. 1500 characters</b></p> <p>Goals:</p> <ol style="list-style-type: none"> <li>1. Establish a management area for cheatgrass mitigation.</li> <li>2. Engage all property owners and organizations working on Mt. Lemmon in management decisions.</li> <li>3. Incorporate cheatgrass mitigation into FireWise.</li> </ol> <p>Objectives</p> <ol style="list-style-type: none"> <li>1. Notify all property owners of the issue, work to be done, and permission to work.</li> <li>2. Disseminate and engage property owners in a five-year mitigation plan involving intensive large-scale treatment for the first two years followed by a three year program with and property owners and volunteers to maintain and spot treat thereafter.</li> <li>3. Hire Department of Corrections and/or contractor crews to treat 100 acres of cheatgrass within a 500 acre area for two years.</li> <li>4. Use the FireWise Annual Meeting and Mt. Lemmon HomeOwners Association listserv to update the community on progress, recruit volunteers for mapping and treating new areas of infestation.</li> </ol> <p>This proposal offers all property owners two years of treatment after which they can decide how to maintain the property weed free, either by doing the work themselves, contracting out, contributing to an operating fund, or by helping recruit and reward volunteers from the community.</p>

<b>Scope of Work / Project Timeline</b> <small>All information for the project should fit into the allotted character space provided below.  Addendum may be submitted if more space is needed.</small>	
8	<p><b>Provide a brief scope of work which clearly describes how grant funds will be spent: Types of treatments proposed, invasive/noxious plant of concern and any information and education activities. (This should be more specific than the project description) 1500 characters</b></p> <p>Informational material will be sent out to all private property owners using the current FireWise distribution list that was compiled using Pima County parcel data. The information will include a reminder about the nature and dangers of cheatgrass, a summary of the goals and objectives of the mitigation project, a description of the scope of work, and a form asking permission to treat on their property for a two-year period.</p> <p>Cheatgrass infestations are first recognizable in April and by the first of May enough areas are suitable for treatment to warrant a full scale spraying regime using contractors or DOC crews. In areas where spraying is not possible, pulling and bagging will be performed. It has been estimated that one 20-person DOC crew can treat all cheatgrass in the management area in one day. Three days have been designated because cheatgrass continues to mature after the first annual growth spurt therefor an additional two days will be required to spray the successive waves of new growth. This will be repeated for two years.</p> <p>Members of the community have been regularly volunteering to report cheatgrass locations and new growth, monitor areas for infestations, and form work crews to pull and spray. This will be formalized and a seasonal schedule will be developed for these activities. For the first two-years, 25 volunteers will provide 434 hours of labor to report infestations and new growth and help the treatment crews.</p>
	<p><b>Provide a timeline for the project. 1000 characters</b></p> <p>2015</p> <ul style="list-style-type: none"> <li>• January Develop informational packet for property owners</li> <li>• February Mail packet to property owners</li> <li>• March Follow up to obtain permissions to spray on private and public property</li> <li>• April Retain treatment crews</li> <li>• May FireWise Annual Meeting – sign up volunteers for monitoring and 2016 season</li> <li>• May – June Treatments depending on conditions</li> <li>• July Use volunteers to monitor spraying efficacy – spot treat where needed</li> </ul> <p>2016</p> <ul style="list-style-type: none"> <li>• March Send postcard reminder to property owners concerning spraying plans</li> <li>• April Retain treatment crews</li> </ul>

## Collaborative Elements and Partners

All information for the project should fit into the allotted character space provided below.  
Addendum may be submitted if more space is needed.

- 9 **Specify the CWMA, private, local, tribal, county, state, federal, and non-governmental 501(c) 3 organizations that will contribute to or participate in the completion of this project. Describe briefly the contributions each partner will make (i.e. – donating time/equipment, funding, etc.).** **2000 characters**

All parties to this project have been aware of cheatgrass and they have been part of the education and prior treatment efforts. The MLHOA is taking the lead in developing the community plan for management. The MLHOA has a website with information on cheatgrass and a calendar of events to keep the property owners updated. It also hosts a community listserv to disseminate information and solicit volunteers. Another large HOA adjacent to Summerhaven is the Loma Sabino Home Owners Association (LSHOA). The LSHOA has integrated cheatgrass reporting in its annual inspection of the properties and notifies homeowners of their responsibilities to remove it. The Fire Department (MLFD) provides volunteers on a regular basis. They will be housing the equipment purchased for the grant for the ongoing use of the community and will provide the pickup to pull the spraying equipment. The Mt. Lemmon Women's Club (MLWC) is an avenue of communication, education and will be preparing the informational packets for property owners. The University of Arizona School of Natural Resources and the Environment (UA/SNRE) is one of the property owners whose mission is to educate the public on the uniqueness of the Sky Island Environment. They also provide education and volunteers for treatments.

The Forest Service has been mapping and treating cheatgrass in the areas of the Forest surrounding Summerhaven for the last two years. In the 2014 season, they loaned the residents of Summerhaven a 50 gal commercial skid sprayer to treat infestations on private land. We are in regular communication with the Invasive Species Coordinator about the mapping of cheatgrass and treatments. For the two-years of the intensive treatment project, we will coordinate timing and areas of treatment. Pima County maintains the Catalina Highway for the Forest Service and we are working with them to coordinated treatment of the roadside for cheatgrass that occurs between the San Pedro lookout and Summerhaven.

## Project Longevity / Maintenance

All information for the project should fit into the allotted character space provided below.  
Addendum may be submitted if more space is needed.

- 10 **Clearly demonstrate how this project will remain effective over time.** **2000 characters**

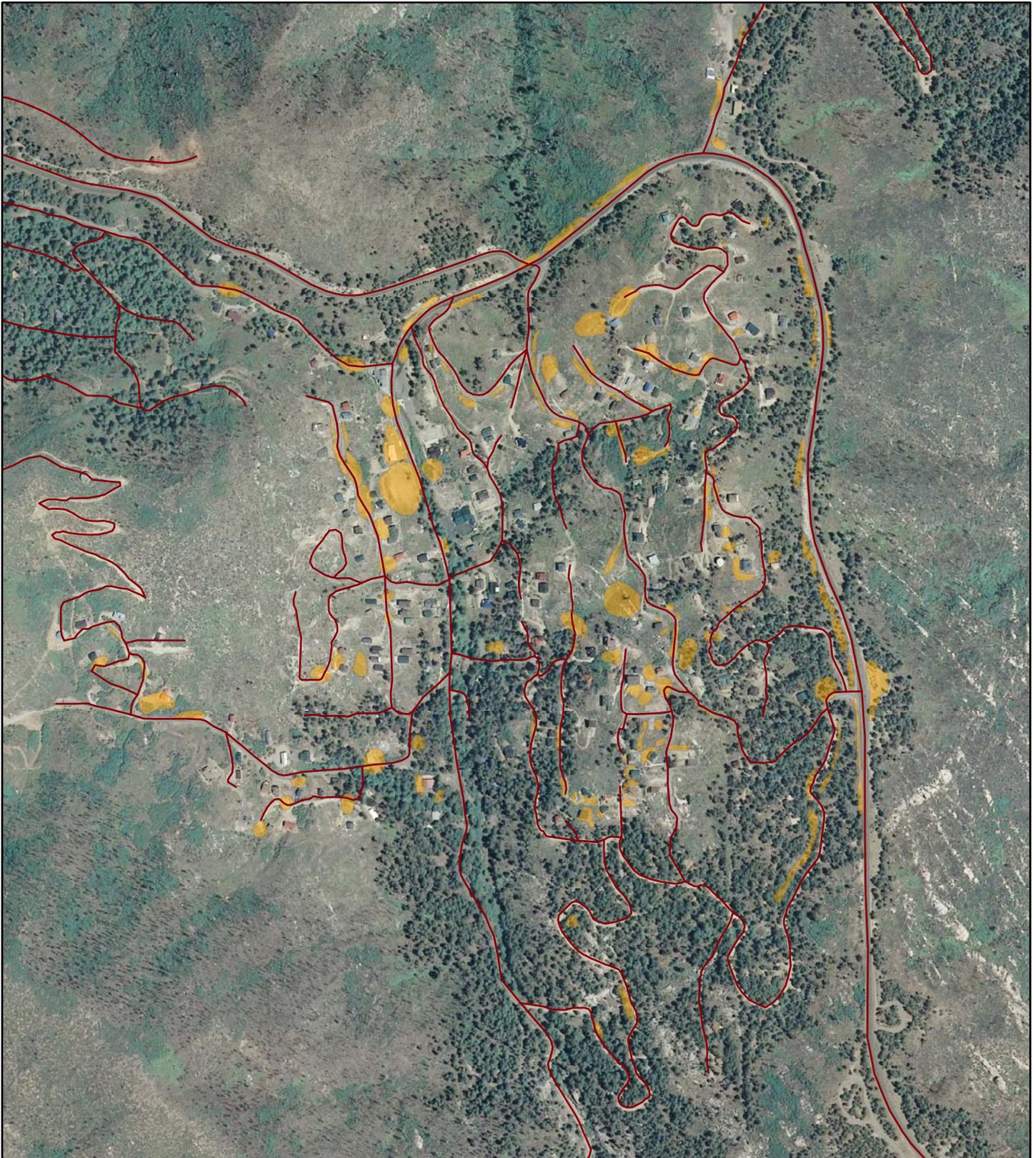
The goal of this project is to knock down the known areas of cheatgrass infestation to a level where monitoring and spot treatments are all that is required going forward. In the two years of the intensive treatments, volunteers will be solicited to do long-term surveillance and reporting of cheatgrass occurrence and spot treating either by spraying or pulling. We have many of these systems in place currently. In the Spring we send out notices on the listserv for the community to be on the lookout for cheatgrass and get back regular reports of sightings. There is also a form on the website to report cheatgrass. Calls to the community for volunteer days to pull and spray cheatgrass have been successful. People have shown their interest in keeping Summerhaven safe. We have volunteer lists of people who are willing to help their fellow property owners who are unable to deal with their property themselves. Many residents carry bags with them on their walks to pull cheatgrass as they see it.

The current systems in place will be formalized to keep it in check. In years 3-5, volunteers will form survey teams, and volunteer teams for property owners that ask for help. At the end of 5 years, we will reevaluate the program effectiveness and develop a second five-year plan accordingly.

The cheatgrass infestations are mapped every year and we will use this map to document the decrease in range and area of cheatgrass infestation. This map is shared with the community at the annual FireWise event.

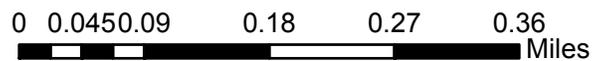
To ensure that the eradication efforts will continue to be sustainable, and have the necessary equipment available, the equipment purchased will be stored at the Fire Department and be used in the subsequent years by the volunteers for spot treatments and any new infestations that occur.

# Cheatgrass in Summerhaven 2014



## Legend

- Streets\_Updated\_MLGIS
- Cheatgrass\_2014





PO Box 699  
Mt. Lemmon, AZ 85619

July 18, 2014

Arizona State Forestry  
Invasive Plant Grant Program (2014)  
1110 West Washington, Suite 100  
Phoenix, Arizona 85007

Dear Grant Review Committee,

The Mt. Lemmon Homeowners Association (MLHOA) forms a vital link to the various organizations and community members on Mt. Lemmon. Over the years we have helped Trees for Mt. Lemmon communicate information to the community and solicit volunteers for their many programs that helped us recover from the 2003 Aspen Fire. As they started to complete their work as an organization, the MLHOA has taken on some of those vital tasks that continue to be important beyond the recovery stage. One of these is the cheatgrass mitigation program. The property owners of Mt. Lemmon have resoundingly affirmed the need to keep up the effort to protect our landscape from another catastrophic fire and to manage the cheatgrass infestations that are still gaining ground.

We are seeking funding to do two-years of large-scale, comprehensive treatments to 100 acres of mapped cheatgrass on private land that is surrounded by National Forest. During this time we propose to contact all property owners and treat all areas with the goal of removing most of the cheatgrass with subsequent maintenance much more manageable. Currently some property owners are treating their land, but are adjacent to property that is not treating. This is discouraging for them and does not further our goal of having a FireWise community.

As you can see by the letters of support, the community has come together to develop this project and we are confident that we will ultimately succeed.

Sincerely,

A handwritten signature in black ink, appearing to read "Lindy Brigham". The signature is fluid and cursive, with a long horizontal stroke at the end.

Lindy Brigham  
12434 N. Middle Sabino Ln.  
Mt. Lemmon, AZ 85619

July 14, 2014



Arizona State Forestry  
Invasive Plant Grant Program (2014)  
1110 West Washington, Suite 100  
Phoenix, Arizona 85007

Ref: Cheat Grass Treatment Proposal

Dear Grant Review Committee,

The Mt. Lemmon Fire District recognizes the extreme fire danger posed by cheatgrass in our community. Our crews have seen the impact this grass has on other western communities that deal with fire. We are highly supportive of this proposal, "Cheatgrass mitigation to reduce fire risk" which outlines a comprehensive program to treat cheatgrass in and around the Village of Summerhaven. This proposal provides for intense treatment for two-years and the development of a community volunteer system to maintain the effort. The entire community understands the need to act now and the Fire District will be supporting the effort by providing volunteers, equipment and expertise. We will be housing the equipment purchased for the project to ensure that the cheatgrass mitigation plan will have a long-term benefit to this community and to the unique mountain environment. If I can provide additional information or answer any questions, please do not hesitate to contact me.

Respectfully,

Randy Ogden  
Fire Chief

*13170 N. Oracle Control Rd.  
P.O. Box 759  
Mt. Lemmon, AZ 89619  
(520) 576- 1201  
(520) 576-3095 fax  
[www.Mtlemonfire.org](http://www.Mtlemonfire.org)*

Mount Lemmon Women's Club Inc.  
PO Box 673  
Mt. Lemmon, AZ 85619

July 17, 2014

Arizona State Forestry  
Invasive Plant Grant Program (2014)  
1110 West Washington, Suite 100  
Phoenix, Arizona 85007

Dear Grant Review Committee,

The Mt. Lemmon Women's Club recognizes the extreme fire danger posed by cheatgrass in our community. We are highly supportive of this proposal, "Cheatgrass mitigation to reduce fire risk" which outlines a comprehensive program to treat cheatgrass in Summerhaven intensively for two-years and develop a community volunteer system to maintain the effort. The Women's Club has a long history of supporting the Mt. Lemmon community. We understand the need to act now and the Women's Club will be supporting the effort by providing volunteers to help solicit permissions from the private landowners.

Sincerely,



Barbara McLean  
Mt. Lemmon Women's Club Secretary

July 14, 2014

Arizona State Forestry  
Invasive Plant Grant Program (2014)  
1110 West Washington, Suite 100  
Phoenix, Arizona 85007

Dear Grant Review Committee,

The University of Arizona's School of Natural Resources and the Environment recognizes the extreme fire danger posed by cheatgrass in our community. We are highly supportive of this proposal, "Cheatgrass mitigation to reduce fire risk" which outlines a comprehensive and intensive program to treat cheatgrass in Summerhaven for two-years and develop a community volunteer system to maintain the effort. The School has a vested interest in maintaining the beauty and integrity of the region. In addition to the many research and educational projects that are conducted on Mt. Lemmon, we are developing the "Faul Preservation Area" just south of the main village of Summerhaven. Our goal is to enhance the educational and recreational experience for the many visitors travel there each year from all over the world. The entire community understands the need to act now and the students and faculty of the School will be supporting the effort by providing volunteers, and expertise to ensure that the cheatgrass mitigation plan will have a long-term benefit to this community and to this unique mountain environment. Please feel free to contact me directly if I can provide any additional information ([smarsh@email.arizona.edu](mailto:smarsh@email.arizona.edu))

Sincerely,



Stuart E. Marsh, Ph.D.  
Director and Professor  
School of Natural Resources and Environment



# Loma Sabino

H O M E O W N E R S   A S S O C I A T I O N

Mt. Lemmon, Arizona

Arizona State Forestry  
Invasive Plant Grant Program (2014)  
1110 West Washington, Suite 100  
Phoenix, Arizona 85007

July 14, 2014

RE: Cheatgrass mitigation to reduce fire risk proposal

Dear Grant Review Committee,

The Loma Sabino Homeowners Association (LSHOA) represents a Mt. Lemmon area that comprises 92 properties on 100 acres between Forest Service Land and the private properties of Summerhaven. All the residents of our association recognize the extreme fire danger posed by cheatgrass in our community. Consequently, we are highly supportive of this proposal, "Cheatgrass mitigation to reduce fire risk".

This proposal outlines a comprehensive program to intensively treat cheatgrass in the Summerhaven area for two-years, and it will develop a community volunteer system to sustain the effort. LSHOA has a long history of working with the Forest Service to maintain a defensible environment in our community. We have managed several Arizona State Forestry grants for fuels reduction and welcome the opportunity to work with the Summerhaven community to manage cheatgrass. The Association also inventories cheatgrass in its annual property inspections and works with the property owners to maintain a fire resilient landscape.

We look forward to assisting the community in the volunteer efforts to ensure that the cheatgrass mitigation plan will have a long-term benefit to this community and to the unique mountain environment.

Sincerely,



Stephen Brigham, Acting President of the LSHOA Board

Copy: Brett Anderson, Cadden Management

**Cadden Community Management**

1870 West Prince Road, Suite 47, Tucson, AZ 85705  
(520) 297-0797 tel | (520) 742-2618 fax