

**State and Private Forestry
 FY 2010 Western Competitive
 Resource Allocation
 Single-State Project Proposal**

Filename	
AZ_Ecosystem	
Administration Information	
Dollar Amount Requested:	\$300,000
Matching Share:	\$515,225

Applicant Information															
1	<table border="1"> <tr> <td>State Forestry Agency:</td> <td>The Flagstaff Ecosystem Management Project -Arizona State Forestry Division</td> </tr> <tr> <td>Contact Person:</td> <td>Kevin Boness</td> </tr> <tr> <td>Address:</td> <td>3650 Lake Mary Road</td> </tr> <tr> <td>City/State/Zip Code:</td> <td>Flagstaff, Arizona 86001</td> </tr> <tr> <td>Phone (Work/Cell):</td> <td>(928) 774-1425</td> </tr> <tr> <td>Email:</td> <td>kevinboness@azstatefire.org</td> </tr> <tr> <td>Fax:</td> <td>(928) 779-2143</td> </tr> </table>	State Forestry Agency:	The Flagstaff Ecosystem Management Project -Arizona State Forestry Division	Contact Person:	Kevin Boness	Address:	3650 Lake Mary Road	City/State/Zip Code:	Flagstaff, Arizona 86001	Phone (Work/Cell):	(928) 774-1425	Email:	kevinboness@azstatefire.org	Fax:	(928) 779-2143
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Project Information			
2	Descriptive Title of Project:	Flagstaff Ecosystem Management Project	
	Names of Partnering Agencies / Organizations:	Arizona State Forestry Division, Arizona Game and Fish Department, Northern Arizona University Centennial Forest, US Forest Service Coconino National Forest, US Park Service Flagstaff Area National Monuments, Coconino County and the City of Flagstaff	
	State(s):	AZ	Congressional Districts: 1
	Counties:	Coconino	Forest Service Regions: 3

Total Leverage								
Please specify each 3 rd party contributor (partnering organizations and agencies, including other Federal) and the dollar value of each contribution. Please DO NOT show grant requested funds in this table.								
3	Contributors: (Please specify by name)	AGF	USFWS	Coconino County	City of Flagstaff	USFS	NPS	TOTAL
	Value of Contributions:	\$5,600	\$6,800	\$3,200	\$3,200	\$3,200	\$3,200	\$25,200

Project Budget					
	Grant Share (\$ requested)	Applicant	Non-Federal Contributors	TOTAL	
		Cash ¹	In-Kind ²		
4	Personnel / Labor:	\$25,000	\$503,225	\$8,000	\$536,225
	Fringe Benefits:	\$0	\$0	\$0	\$ 0
	Travel:	\$0	\$0	\$0	\$ 0
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$5,000	\$0	\$0	\$5,000
	Contractual:	\$270,000	\$0	\$4,000	\$274,000
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$0	\$0	\$ 0
	TOTAL:	\$300,000	\$503,225	\$12,000	\$815,225

Project Duration	
5	What is the duration of this project? <input type="checkbox"/> One Year <input type="checkbox"/> Two Years <input checked="" type="checkbox"/> Three Years

National Relevance	
6	Conserve Working Forest Landscapes <input checked="" type="checkbox"/> Protect Forests From Harm <input checked="" type="checkbox"/> Enhance Public Benefits From Trees and Forests <input checked="" type="checkbox"/>

Project Description	
7	<p>Maximum 5500 Characters Including Spaces – Clearly summarize the proposed project, including goals, objectives, measurable outputs, outcomes, and how grant funds will be used towards successful completion of the project.</p> <p>The area south and west of Flagstaff, AZ historically has witnessd large wildfires that move with the prevailing winds from southwest to northeast. These wildfires have threatened the community and its infrastructure. The primary objectives are to utilize ecosystem management to affect forest health , watershed degradation, wildlife habitat, travel management, and wildfire risk reduction. Identified initial projects all lie within the Flagstaff CWPP and are prioritized as high risk. The combination of years of drought, overstocked and unhealthy forests place the 80,000 residents of the Flagstaff metro area at one of the highest risks from wildfire in the Western United States.</p> <p>The Flagstaff Ecosystem project is a multi year ecosystem management project located on State Trust Land in the Flagstaff, area. This is a cooperative effort between 3 state agencies, 3 federal agencies and city and county governments. Current treatments within the project area are Picture Canyon Streamcourse Restoration - this project will restore natural vegetation and protect significant archeological resources, Walnut Canyon travel management - will identify current human travel corridors and reduce impacts to watersheds and wildlife from unnecessary roads and trails , and Rogers/Landon fuels reduction - will reduce the threat from catastrophic wildfire to watersheds, wildlife and the local communities. A cooperative approach involving multiple state and federal agencies has been taken to identify priority projects that will allow grant funding to be applied to the highest priority projects. In</p>

¹ ‘Cash’ is the value of any qualifying match the applicant pays for such as cash, staff time, supplies, or equipment.

² ‘In-Kind’ is the value of any qualifying match contributed by a non-federal 3rd party contributor such as donated time, supplies, or equipment.

addition, the Four Forest Restoration Initiative, a collaborative approach to landscape scale restoration with the USFS, has identified the area southwest of Flagstaff as its first priority area for beginning landscape level treatments. The Flagstaff Ecosystem project on state lands will be complimentary to this Initiative within the checkerboard ownership SW of Flagstaff. This project also incorporates Key Strategy #3 of the Statewide Strategy for Restoring Arizona's Forests: "Increase integration of restoration, fire management, and community protection planning implementation at landscape scales."

Picture Canyon Streamcourse Restoration and Walnut Canyon travel management treatments have received various types of outside funding and will not be funded from this grant. This grant request will be used for fuels management and thinning on 500-600 acres in need of reducing the risk from catastrophic wildfire to protect valuable watersheds and resource values southwest of Flagstaff. Treatment will be done in a manner that will minimize erosion, protect wildlife and endangered species habitat (Mexican Spotted Owl) and provide research opportunities for the NAU Centennial Forest. Mexican Spotted Owl inventories will be done during 2010. Treatment prescriptions for the project area will be developed in the Winter/Spring of 2011. Stands will be marked by a seasonal marking crew that will be hired using grant money during the Spring/Summer of 2011 with thinning to occur during the Spring/Summer of 2011. Prescribed fire will be applied during the Winter of 2012 with broadcast burning during the Spring or Fall of 2013.

This project will compliment and incorporate the important firewise education and implementation efforts being done by state, county, city, municipal and rural fire departments, developers and homeowners. This project will continue current efforts and enhance future firewise efforts in providing education and guidance to developments and individual homesites. It expands efforts to treat proposed developments for hazardous fuels prior to homesite development. Current efforts involve local government ordinances, zoning and enforcement and has engaged the active participation of developers. Local homeowners will have access to the State Forestry Stewardship Program and the NRCS programs that can provide technical and financial assistance in learning how to manage their forested lands and implement proper treatments.

There is already a track record of collaboration and success that this project will build on. Previous efforts have resulted in the treatment of 150,000 acres of forest land around the greater Flagstaff community.

Research accomplished will inform future forest management activities in areas of climate change, CO2 sequestration, optimal stand densities, in the Southwest US with the ultimate goal of providing a framework for long term sustainability. In addition, the NAU Centennial Forest and its relationship with NAU School of Forestry is providing invaluable training and education of future foresters and practitioners of forest management.

Program Integration

Maximum 1250 Characters Including Spaces

8

Other programs and initiatives that are part of this project will assist in accomplishing S & PF objectives. These projects compliment ongoing efforts around Flagstaff by organizations such as the Greater Flagstaff Forest Partnership, the Four Forest Restoration Initiative and Firewise Communities. Projects within the Flagstaff Ecosystem area address several S & PF objectives. The Picture Canyon Project address the need to protect significant cultural resources. Identified cultural resources include prehistoric dwellings and rock art. It will also reduce or eliminate invasive species while introducing native riparian species. Future protection of the area will prevent further degradation and provide a significant teaching tool. The Walnut Canyon project will reduce wildcat roading and social trails lessening the impact on wildlife habitat, decreasing erosion and potential wildfire ignitions. It will guide the partners in determining what the appropriate level and kind of access is needed for public use. The Woody/Landon project will reduce the risk of catastrophic wildfire preventing the loss of critical endangered species habitat and the threat to communities in the Flagstaff area while protecting valuable watersheds.

Collaboration	
9	<p>Maximum 1250 Characters Including Spaces</p> <p>State and Federal agencies participating in the collaboration are AZ State Forestry, Northern Arizona University School of Forestry and Ecological Restoration Institute, AZ Game and Fish Dept., Coconino National Forest, US Park Service, US Fish and Wildlife Service, City of Flagstaff and Coconino County. This collaboration will focus on management direction and implementation. Adjacent federal ownerships provide an opportunity to look beyond ownership boundaries and develop management objectives that will address resource needs on a landscape scale. Current and future treatments will allow for better management of transportation patterns by closing roads at critical locations, wildlife habitats by sharing resource data and watersheds by reducing the risk from wildfire that cross jurisdictional boundaries and protection of cultural resources by encouraging local government to educate their constituents as well as using local law enforcement. Collaboration is also occurring with the local university. This effort currently is in the form of long term research about carbon sequestration as well as many other shorter term projects. The university will also be monitoring some of the treatment applications.</p>

Leverage	
10	<p>Maximum 1250 Characters Including Spaces</p> <p>Award of this grant will help to leverage various state grants and state appropriated dollars. In addition, the scope of the project will allow federal partners to provide personnel using federal appropriated money for salaries. The integrated approach of setting project priorities will allow local government to provide funding primarily in the form of personnel involvement. This project will also provide research opportunities to the local university allowing them to use available National Science Foundation as well as other research grants. Currently there are two state grants that have been awarded to two of the projects. A \$60,000 dollar State Land Department grant to assist the Walnut Canyon transportation/erosion control project and a \$330,225 grant from the Arizona Water Protection Fund to assist the Picture Canyon restoration project.</p>

Meaningful Scale	
11	<p>Maximum 1250 Characters Including Spaces</p> <p>The primary area where grant funds will be expended is southwest of Flagstaff. This project would compliment other projects that over the last five years have treated 2000 acres of State Land and 4000 acres of federal land. There is a continuing effort to address the management issues of the comingled federal and state lands that are adjacent to Flagstaff. The whole gamit of resource issues occur on these lands. They have become heavily used by local residents as well as a large influx of Phoenix residents wishing to escape the heat during summer months. The challenge to managing and protecting the natural resource while still providing a valuable recreational opportunity has created opportunities for local land mangers to discuss natural resource issues on a landscape scale. This grant will help fund the ongoing efforts to improve the watershed, protect the area from catastrophic wildfire and provide quality wildlife habitat. This project will directly impact the Oak Creek, Verde and Little Colorado watersheds , valuable wildlife corridors and endangered species habitat. It will also provide research opportunities that could impact forest restoration science and ponderosa pine management.</p>

Sphere of Influence	
12	<p>Maximum 1250 Characters Including Spaces</p> <p>The western states are seeing the need for collaborative approaches to science based efforts on a landscape scale to address reducing wildfire risk, wildlife habitat management, watershed protection and public use/abuse issues. Techniques developed within the Ecosystem Project area such as protection of cultural resources, control and management of public travel corridors, proper management and protection of T&E species habitat, educating, involving, and engaging the public on resource issues, science based treatments for forested areas will be replicable throughout the west. Individual projects will impact areas large enough to be applicable to other communities and ecosystems. Research and monitoring will be ongoing and published results will be available to communities and organizations that would like to apply techniques that are developed.</p>

Sustainability of Outcomes	
13	<p>Maximum 1250 Characters Including Spaces</p> <p>The Flagstaff Ecosystem Management Project - has an estimated 20-30 year longevity. The area is covered by a forest management plan with a planned 20 year re-entry cycle. Treatments are intended to be aggressive enough that re-entry will not be needed for up to 20-30 yrs. Broadcast burning will occur within 4 years of project completion and then on a 7-10 yr cycle by the Arizona State Forestry Division. A broad base involvement of agencies, communities and the public will provide for a continuing check and recheck of implemented projects. This will provide continual feedback on what techniques are working and which ones are not allowing for adaptive management and continuing improvement in project implementation quality. Formal monitoring will be accomplished by the Arizona State Forestry Division and Northern Arizona University Centennial Forest. Results of monitoring will inform future decisions on management in the Arizona and in the western US.</p>