

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP COMMITTEE  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number:	13-208
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<b>PROJECT INFORMATION</b>
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<b>Project Title:</b> Pine Hollow Mechanical / Prescribed Fire	
<b>Region and Game Management Unit:</b> Region 2 / GMU 12B	
<b>Local Habitat Partnership Committee (LHPC):</b> •	<b>Was the project presented to the LHPC?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
<b>Has this project been submitted in previous years?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> <b>If Yes, was it funded?</b> YES <input type="checkbox"/> NO <input type="checkbox"/> → <b>Funded HPC Project #(s):</b>	
<b>Project Type:</b> Mechanical Treatment/Prescribed Fire	
<b>Brief Project Summary:</b> The Pine Hollow mechanical treatment and prescribed fire is a large landscape size mechanical treatment and prescribe fire with in the Buck Skin mountain range. The prescribed fire would continue to extend the benefits that have already been seen from previous large scale prescribed burns in the area. Benefits include increased forage and water yields, more resilient stands of new growth, greater diversity of age class and species, protection of values at risk and maintaining fire return intervals. Reducing potential for conversion to large areas of invasive grasses due to wildfire.	
<b>Big Game Wildlife Species to Benefit:</b> Mule Deer	

<b>Implementation Schedule</b> (Month/Day/Year):  <u>Project Start Date:</u> Oct 2013  <u>Project End Date:</u> Oct 2013	<b>Environmental Compliance:</b> NEPA Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: _____  State Historic Preservation Office - Archaeological Clearance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: _____  Arizona Game and Fish Department EA Checklist: N/A <input type="checkbox"/> To be Completed by: _____ Projected Completion Date: _____
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<b>PROJECT FUNDING</b>
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<b>Special Big Game License Tag Funds Requested:</b>	\$ 95,000
<b>Cost Share or Matching Funds:</b>	\$ 55,000 Chaining \$ 70,000 Seed Total \$ 125,000 <u>Due to the time frame of implementation, the funding that is obtained from the Heritage Grant would be used to reimburse funding taken from other projects to complete the Pine Hollow prescribed fire.</u>
<b>Total Project Costs:</b>	<b>\$ 220,000</b>

<b>PARTICIPANT INFORMATION</b>		
<b>Applicant</b> (please print): Arizona Strip BLM Cris Madrigal	<b>Address:</b> 345E Riverside Dr. St. George UT, 84790	<b>E-mail:</b> cmadriga@blm.gov
<b>Telephone:</b> 435-688-3292		<b>Date:</b>
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel): Luke Thomson		
<b>Project has been coordinated with:</b> Luke Thomson		

**NEED STATEMENT – PROBLEM ANALYSIS:**

**The Buck Skin Vegetation Management Plan responds to goals and objectives of the Arizona Strip Vermillion Cliffs Vegetation Management Plan**

Improve and manage wildlife habitat for a variety of native species

Manage for a diverse and healthy native vegetation component that is resilient, resistant to extreme weather patterns, and would support wildfires that more closely resemble their historic range of size, frequency, and intensities

Maintain or improve soil stability, soil productivity, and watershed conditions

Increase water yield within the treated area; and reduce risk to life, property, and natural resources from high-severity wildfires while increasing the safety to fire suppression resources.

Reduce the potential for stand replacement wildfires that would cause conversion of the existing vegetation to invasive grasses.

\*Map of the Pine Hallow Chaining (pg10)

\*Refer to pictures of Buck Pasture project completed 2011(pg11-14)

**PROJECT OBJECTIVES:**

**Goals**

Prescribed Fire:

To reduce downed Pinyon and Juniper between 50-90%

**Objectives**

Resource objectives:

Reduce woody littler by 50-90%.

Increase native grass and forbs cover by 5-25% within five years post burn.

**Prescribed fire objectives**

Keep the prescribed burn within the project area boundary.



OT	\$37.52	100	\$3,752	
Holding Specialist			\$45.02	32 \$1,441
OT	\$37.52	40	\$1,501	
FEMO	\$45.57	32	\$1,458	
OT	\$37.56	40	\$1,502	
Engine Boss	\$43.07	48	\$2,067	
OT	\$34.38	56	\$1,925	
Engine Boss	\$43.07	72	\$3,101	
OT	\$34.38	100	\$3,438	
Engine Operator	\$36.09	48	\$1,732	
OT	\$28.44	56	\$1,593	
Engine Operator	\$36.09	72	\$2,598	
OT	\$28.44	100	\$2,844	
Engine Crew	GS-7	\$34.60	48	\$1,661
OT	\$28.31	56	\$1,585	
Engine Crew	GS-6	\$21.70	48	\$1,042
OT	\$25.10	56	\$1,406	
Engine Crew	GS-6	\$27.70	32	\$886
OT	\$25.10	40	\$1,004	
Igniter	\$35.01	72	\$2,521	
OT	\$27.94	100	\$2,794	
Igniter	\$32.72	72	\$2,356	
OT	\$25.81	100	\$2,581	
Igniter GS-5	\$19.46	72	\$1,401	
OT	\$22.50	100	\$2,250	
Igniter GS-5	\$19.46	72	\$1,401	
OT	\$22.50	100	\$2,250	
Igniter GS-5	\$19.46	72	\$1,401	
OT	\$22.50	100	\$2,250	
Igniter GS-5	\$19.46	72	\$1,401	
OT	\$22.50	100	\$2,250	
Holding	GS-4	\$17.40	32	\$557
OT	\$20.12	44	\$885	
Holding	GS-4	\$17.40	32	\$557
OT	\$20.12	44	\$885	
Holding	GS-4	\$17.40	32	\$557
OT	\$20.12	44	\$885	
Holding	GS-4	\$17.40	32	\$557
OT	\$20.12	44	\$885	
Holding	GS-5	\$19.26	32	\$616
OT	\$22.50	44	\$990	
Holding	GS-5	\$19.26	48	\$924
OT	\$22.50	56	\$1,260	
			TOTAL LABOR	\$77,724.92

ESTIMATED

VEHICLES	lisc. No.	Rate	Use	Cost	Description
Fire Utility		\$0.87	400	\$348	
Fire Utility		\$0.87	400	\$348	

Fire Utility	\$0.87	400	\$348
Fire Utility	\$0.87	400	\$348
Type 6 Engine	\$83.40	30	\$2,502
Thpe 4 Engine	\$103.70	30	\$3,111
Fire Utility	\$0.87	400	\$348
Fire Utility	\$0.87	400	\$348

TOTAL VEHICLE \$7,701.00

**OPERATIONS**

	Meals	ESTIMATED		
	#of people	Rate	Days	Cost
Camp Rate	24	\$29.00	5	\$3,480
14	\$29.00	7		\$2,842

	Gallons	Cost/Gallon	Cost
Drip Mix	400	\$2.50	\$1,000

**Maintenance/Supplies**

Misc Vehicle: \$2,000

This would include ATV fuel, servicing of ATV, Anti-freeze to winterize engines, ex.

**ESTIMATED :**

TOTAL OPS \$9,322

GRAND TOTAL \$94,748

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

Arizona Strip BLM, Range and Arizona Strip BLM Fire, Fuels and Aviation

**WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?**

YES[x] NO[] N/A[]

**PROJECT MONITORING PLAN:**

Monitoring:

Resource managers for the BLM will coordinate long term monitoring. The Burn Boss will coordinate with

the resource managers to evaluate the results of the prescribed fire treatment.

**PROJECT MAINTENANCE:**

After the prescribed fire the area will be re-chained to complete the project.  
No further maintenance will be need.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

Arizona Strip BLM, Range or Arizona Strip BLM, Fire Staff

**WATER DEVELOPMENT PROJECTS** (*please use the worksheet below*):

**TREE CLEARING/REMOVAL PROJECTS** (*please use the worksheet below*):

## **ARIZONA GAME AND FISH DEPARTMENT** **WATER DEVELOPMENT WORKSHEET**

**PROJECT TITLE:** \_\_\_\_\_

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
2-4   4-6   6-8   8-10   10-12   12-14   14-16    >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES  (please complete #5 below)   NO  (skip #5 below)

- 5) **For the accessible, perennial water source nearest this project:**

Name of water source:

Type of water source (catchment, spring, dirt tank):

Ownership of water source:

Distance in miles from project:

- 6) **Is the target wildlife species a result of transplant efforts? YES  NO**

- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**

- 8) **Please provide the following information about access to the proposed site:**

Type of access (mark one):   2x4 vehicles   4x4 only   foot only\*\*

\*\*If foot access only: Distance in miles: \_\_\_\_\_   Approximate hiking time: \_\_\_\_\_

-- Does access to this site require crossing private or tribal lands? YES  NO

-- Please describe any restrictions to public access:

- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

- 10) **Was a site visit completed? Yes  No**

If Yes, please list personnel that attended and date.

## **ARIZONA GAME AND FISH DEPARTMENT** **TREE CLEARING/REMOVAL WORKSHEET**

**PROJECT TITLE:** Pine Hollow Mechanical/Prescribed Fire

- 1) **What is the estimated acreage of the project?**  
1000acres
- 2) **How are the trees going to be cleared? (agra axe, chain saw, grubbing, push, chaining):**  
Chaining with Prescribed fire.
- 3) **What is the estimated number of trees per acre?**  
200 Trees per acre
- 4) **Describe trees to be cleared (species, estimated diameter, single stem, multi-stem):**  
Pinyon, Juniper 18-24 DBH Multi
- 5) **Describe terrain (slope, soil type, rocks)**  
**Slope: 10% over majority of project site.**  
**Soil: Loamy upland**  
**Rocks Lime Stone out cropping**
- 6) **Please list any special land management status for the project site (e.g. Wilderness, National Park, National Monument). If private land, list landowner.**  
N/A
- 7) **Please provide the following information about access to the proposed site:**  
Type of access (mark one): 2x4 vehicles 4x4 only Foot only\*\*

\*\*If foot access only: Distance in miles:    Approx. hiking time:

Does access to this site require crossing private or tribal lands? YES[ ] NO[x]

Is the site relatively accessible for tree removal equipment? YES[x] NO[ ]

Please describe any restrictions to public access:

## ARIZONA GAME AND FISH DEPARTMENT VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

**PROJECT TITLE:** \_\_\_\_\_

The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. [http://www.hr.az.gov/HR\\_Professional/Class\\_Comp/PDF/alphacovered.pdf](http://www.hr.az.gov/HR_Professional/Class_Comp/PDF/alphacovered.pdf)

<b>Water Development</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Habitat Restoration and Clean Up</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Fisheries</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Nongame Branch Project</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Misc/office work</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			varies	
<b>Community Services</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$7.44	
<b>Events and Other</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Research Branch</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Wildlife Area Hosts</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$17.44	
<b>Education Programs</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$16.07	
<b>Totals</b>				

\$0.445/mile should be the calculation used for mileage.









