

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

Game Branch / HPC Project Number:	13-202
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PROJECT INFORMATION

Project Title: Pat Springs Pipeline Operation and Maintenance 2014-15

Region and Game Management Unit: Region II, GMU 7E

Local Habitat Partnership Committee (LHPC):
 • Williams/ Flagstaff

Was the project presented to the LHPC?
 YES NO

Has this project been submitted in previous years? YES NO

If Yes, was it funded? YES NO → **Funded HPC Project #(s):** 11-204

Project Type: Water Pipeline O&M

Brief Project Summary: Provide for the Operation and Maintenance of the Pat Springs water pipeline for two years, 2014-2015

Big Game Wildlife Species to Benefit: Elk, 33%, Mule Deer 33% and pronghorn 33%. Benefit will be the distribution, storage and accessibility of a dependable water supply throughout this 200 sq. mile important range

Implementation Schedule (Month/Day/Year):

Project Start Date: April 2014

Project End Date: October 2015

Environmental Compliance:

NEPA Completed: Yes No N/A

Projected Completion Date: _____

State Historic Preservation Office - Archaeological Clearance:

Yes No N/A

Projected Completion Date: _____

Arizona Game and Fish Department EA Checklist: N/A

To be Completed by: _____

Projected Completion Date: _____

PROJECT FUNDING

Special Big Game License Tag Funds Requested: **\$8,000**

Cost Share or Matching Funds: **\$15950**

Total Project Costs: **\$ 23950**

PARTICIPANT INFORMATION

Applicant (please print):
T. Mackin, Coco.Sprtsmn.

Address: POB 1301, Flagstaff, Az
86002

E-mail:
tmmackin@q.com

Telephone: 928-779-9127

Date: August 9, 2013

AGFD Contact and Phone No. (If applicant is not AGFD personnel):
Larry Phoenix, 928-774-5045

Project has been coordinated with: Reg II AZGFD, Flagstaff Ranger District, CNF

NEED STATEMENT – PROBLEM ANALYSIS: The north and east sides of the San Francisco Peaks provide excellent summer and winter habitat for wide variety of game and non-game species, except for a dependable source of water. While there are numerous earthen tanks and some natural depressions, there is no dependable supply of water throughout the 200-300 square miles under discussion. The Pat Springs Pipeline, a 40 mile long spring fed water supply, was originally built in the mid 1950's to provide water for livestock on numerous pastures throughout the grazing allotment but it fell into disrepair by the late 1980's. The Coconino Sportsmen were approached by the Forest Service in late 1996 to rehabilitate and operate the pipeline for 5 years and an agreement was signed at that time. The Coconino Sportsmen were members of the Flagstaff HPC and received partial funding for that initial 5 year period. Since that time, additional funding for 10 more years was received as well as several enhancements above normal maintenance and operation, including below ground, year round storage tanks and drinkers. All parties involved, including the USFS, AZGFD, HPC "partners" and numerous others have documented the widespread benefits to all species in the effected area. The Coconino Sportsmen have entered into a new agreement for continued operation and maintenance. Continuing our funding through the HPC process will enable the Coconino Sportsmen to operate, maintain and improve this valuable resource/water supply.

PROJECT OBJECTIVES: Our objective is to provide a dependable water supply for multiple wildlife species on approximately 200 square miles of critical wildlife range through the continuing operation and maintenance of the Pat Springs Pipeline. The main line, stretching over 40 miles with approximately 20 storage tanks and 33 drinkers with a total capacity of over 400,000 gallons, needs to be drained each fall, with over 100 drains, then reassembled in the spring, once temperatures can no longer cause freeze damage. The entire pipeline normally operates between early May and mid October with additional water provided from storage tanks to below ground drinkers year round on the most northern and eastern portion of the project at the lowest elevations.

PROJECT DESCRIPTION AND STRATEGIES: Through the use of the existing infrastructure, our maintenance and operation of the pipeline will provide a valuable commodity, potable, dependable water, for all wildlife in the outlined area. Throughout the operating season, the pipeline will be monitored at least weekly, with repairs being made as they are discovered. Supplies will be inventoried to maximize operating uptime and widespread distribution of the water throughout this area.

PROJECT LOCATION: The entire pipeline is on the Coconino National Forest, Flagstaff Ranger District. It is primarily located in Range 7 East, Township 23 North, starting in section 7 and it runs in a northerly and north easterly direction, with numerous branches.

LAND OWNERSHIP AT THE PROJECT SITE(S):

(if the project area is private property, please state specifically and provide the landowner's name)

- USFS

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

YES[] NO[] N/A[]

HABITAT DESCRIPTION: The pipeline starts in the ponderosa pines and aspens of the White Horse Hills at an elevation of approximately 8600 feet and ends in mixed pinyon juniper and open grasslands at approximately 6000 feet.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds Funds will be utilized to pay for necessary plumbing supplies including pipe(s), valves, floats, adhesives and other consumables. The annual cost for plumbing supplies and consumables will be approximately \$1000. Replacement drinkers will cost approximately \$3000 per year. Many of the current drinkers are the original WWII engine shipping cases and now after 70+ years they're starting to leak and rust out. In addition, they are approximately 40" tall making them inaccessible for fawns and elk calves.

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

The Coconino Sportsmen will provide all labor each year, estimated to be approximately 350 hours at a value of \$4949 and mileage credited at \$2002 per year over 4500 miles. The USFS provides fencing and other items valued at approximately \$1000 per year.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION: Other labor assistance has come from individuals with some of the "partner groups" and AZGFD personnel. In addition, the permittee for the grazing allotment is the Navajo Nation and they've increasingly provided support with water movement, monitoring and minor repairs. Continued support from these individuals and agencies should continue for this next project period

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

YES[X] NO[] N/A[] While access has not been an issue in this area, by dispersing water throughout the area, it will also increase watering opportunities and therefore lower crowding at these sites.

PROJECT MONITORING PLAN: The pipeline is monitored at least weekly, depending upon water flows from the spring and other climatic conditions. Reports from AZGFD, USFS, and other interested personnel also assist in monitoring activities.

PROJECT MAINTENANCE: The project is of an annual activity type to include all maintenance and operation. As in the past, additional enhancements adjacent to the project will be handled via separate project submissions.

PROJECT COMPLETION REPORT TO BE FILED BY: At the end of each year, a written report will be submitted to the HPC Coordinator by the Coconino Sportsmen outlining the annual activities as well as a written invoice to cover expenses incurred.

ARIZONA GAME AND FISH DEPARTMENT
VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: Pat Springs O&M 2014-2015

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

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

Water Development	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
	350	4500	\$14.14	\$6975
Habitat Restoration and Clean Up	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Fisheries	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Nongame Branch Project	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Misc/office work	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			varies	
Community Services	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$7.44	
Events and Other	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Research Branch	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Wildlife Area Hosts	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$17.44	
Education Programs	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$16.07	
Totals	350	4500		\$6975