

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

<b>PROJECT INFORMATION</b>	
<b>Project Title:</b> Galiuro Mountains Catchment #2 Renovation (GF #801)	<b>Project No. 07-525</b>
<b>Region/GMU:</b> 32	<b>HPC:</b> Safford
<b>Project Type:</b> Catchment Renovation	
<p><b>Project Description:</b> This project will completely renovate the AGFD Galiuro Mountains Catchment (#801) with a new apron, storage tank and trough. This catchment is located in Game Management Unit 32, southeast of Klondyke, AZ. This catchment is somewhat functional but not 100% dependable to catch and store water for wildlife on a year to year basis. The current status of the catchment consists is a wood frame, tin apron and metal trough.</p> <p><b>Wildlife Species to Benefit:</b> This renovation will greatly benefit mule deer, javelina , white-tailed deer and other small game and nongame species.</p>	
<b>Possible Funding Partners:</b>	
<p><b>Implementation Schedule:</b>  <b>Beginning:</b> Spring of 2008 or 2009  <b>Completed:</b> Spring of 2008 or 2009</p>	
<b>PROJECT FUNDING</b>	
<b>SBG Funds Requested:</b> \$17,000.00	
<b>Cost Share Funds:</b> \$13,000.00	
<b>Total Project Costs:</b> \$30,000.00	
<b>PARTICIPANT INFORMATION</b>	
<p><b>Applicant:</b> John Bacorn (please print) AGFD Wildlife Manager</p> <p><b>Telephone:</b> (520) 384-6056</p>	<p><b>Address:</b> 555 N. Greasewood Road Tucson, AZ 85745</p>
<b>AGFD Contact and Phone No. (If applicant is not AGFD personnel)</b>	
<b>Coordinated with:</b> Paul Puckett (AFGD Development Branch)	<b>Date:</b> June 2007
<b>Applicant's signature:</b>	<b>Date:</b>

SEND COMPLETED APPLICATIONS TO:  
Game Branch  
2221 W. Greenway Rd.  
Phoenix, AZ 85023  
[mdisney@azgfd.gov](mailto:mdisney@azgfd.gov)

### **NEED STATEMENT/PROBLEM ANALYSIS:**

Mule deer numbers have been declining throughout the west. To address this concern, the Western Association of Fish and Wildlife Agencies created a Mule Deer Working Group (MDG). The MDG set out to find common factors and solutions to the west's declining mule deer numbers. As a result, the MDG produced Habitat Guidelines for Mule Deer within ecoregions. Overall, loss and degradation of habitat was determined to be the single greatest factor that has caused mule deer declines across the west. Habitat Guidelines for Mule Deer in the Southwest Ecoegion suggests that undesirable plant composition and structure and inadequate available perennial water sources may be the two most common limiting factors causing mule deer declines. One objective of this project is to provide a year round water source for wildlife.

The State Land Department lessee within this project area recently (4-5 years ago) added several water troughs along a pipe line for cattle within close proximity of the project site. The AGFD currently has an agreement with the State Land lessee to continue to supply water to troughs even during times cattle are not grazed on the allotment. This agreement will be coming to an end within 2 years, therefore the lessee will not be required to supply water to the troughs during times cattle are absent from the allotment.

### **PROJECT OBJECTIVES:**

- 1) Provide a water source to wildlife on a year round basis.
- 2) Renovate a current water storage system that will require minimal supplemental water hauling and maintenance.
- 3) Renovate a current water storage system to extend its lifespan another 40-50 years.
- 4) To increase mule deer and javelina populations by providing a dependable, long term, self-sustaining water source.
- 5) To increase hunter opportunity.
- 6) To increase watchable wildlife opportunity.

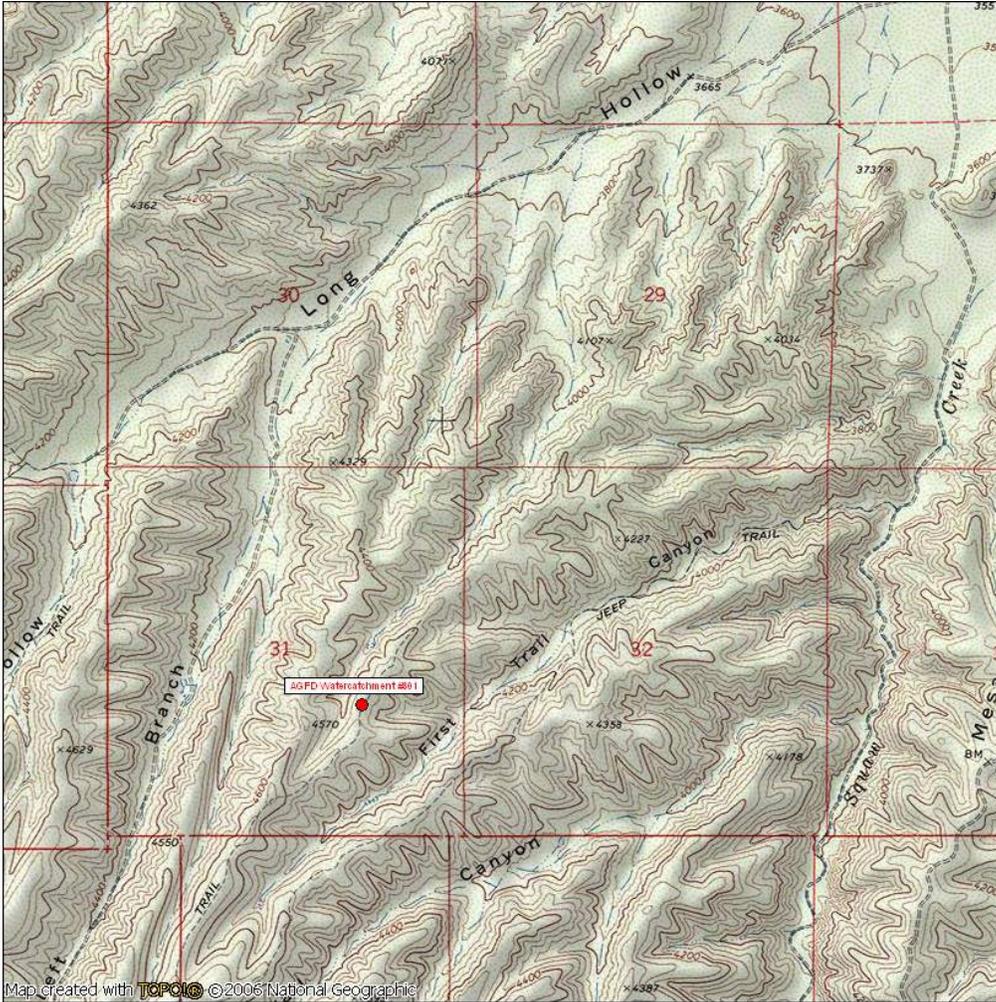
### **PROJECT STRATEGIES:**

Utilize big game special tag funds, AGFD personnel and volunteers from the Southeastern Arizona Sportsman's Club to completely renovate an existing AGFD water catchment.

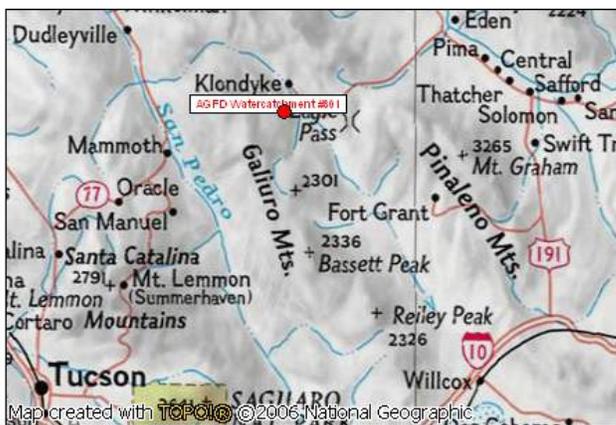
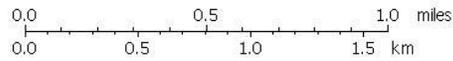
- 1) Purchase new apron materials to replace current non-functioning apron
- 2) Purchase new water storage tank to replace and update current water storage tank.
- 3) Purchase and replace current water trough.
- 4) Purchase and replace current plumbing for system.
- 5) Purchase and replace current barbed wire exclosure with new "wildlife friendly" pipe rail exclosure.

**PROJECT LOCATION:**

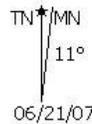
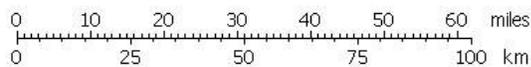
The project location is in the Northeastern end of Game Management Unit 32, southeast of Klondyke Arizona.



Map created with TOPOLIC © 2006 National Geographic



Map created with TOPOLIC © 2006 National Geographic



**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner’s name):**

Project site is located on State Trust Lands.

Cody Hatfield (AZ State Land Department) was contacted regarding NEPA or any other special permits that may be needed. NEPA is not required on State Trust Lands and as long as the project stays within the original “footprint” of the existing site (catchment) there are no special permits needed.

**IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?**

There is a current access agreement between the State Land Department lessee and the AGFD. The agreement is for public access which was in exchange for various ranch improvements. The AGFD is currently in the process of renewing or extending the agreement.

**HABITAT DESCRIPTION:**

The project site is within two biotic community types; Semidesert Grassland and Desertscrub. Common vegetation includes various types of gramma grasses (*Boutelous* spp), bush Muhly (*Muhlenbergia porteri*), mesquite (*Prosopis* spp), jojoba (*Simmondsia chinensis*) and catclaw (*Mimosa biuncifera*). Average rainfall is 12-16 inches and at an elevation of 4500 feet.

**ITEMIZED USE OF FUNDS:**

Item	Measurements	Total Costs	Cost Share	Funds Needed
Apron	24' X 96'	\$7,000.00		\$7,000.00
Fiberglass Ring Tank	3' x 18' (6000 gal)	\$6,000.00		\$6,000.00
'walk-in" trough	3' X 4' standard	\$2,000.00		\$2,000.00
Wildlife "friendly" Livestock Exclosure Fence	150' X 150'	\$2,000.00		\$2,000.00
Plumbing and misc		\$1,000.00	\$1,000.00	
Site visits/proposal write-up/ coordination/ salary (AGFD)		\$1,000.00	\$1,000.00	
Work crew/ salary/per diem (AGFD)		\$8,000.00	\$8,000.00	
Volunteer Labor		\$3,000.00	\$3,000.00	
<b>Total</b>		<b>\$30,000.00</b>	<b>\$13,000.00</b>	<b>\$17,000.00</b>

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

Southeastern Arizona Sportsman's Club support this project and will provide volunteer labor for the project.

**PROJECT MONITORING PLAN:**

Project site will be monitored on an annual basis according to the Region's water catchment monitoring schedule.

**PROJECT MAINTENANCE:**

Any maintenance will be completed by AGFD.

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

Completed by the project applicant, John Bacorn (AGFD)

**WATER DEVELOPMENT PROJECTS (see attached worksheet):**

**TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):**

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

**PROJECT NAME:** Galiuro Mountains Water Catchement #801

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** It is on the Region’s list as number 15 out of 29 projects.
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**  
Coordinated with Paul Puckett (AGFD Development Branch) several times through the month of June, 2007. Site visits were conducted; John Bacorn made several site visits during the month of May, June and July and Paul Puckett made two site visits during the month of June.
- 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 X14-16 \_\_\_>16
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
X YES (please complete #5 below) \_\_\_NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source: unnamed dirt tank and metal drinker. Dirt tank is not a reliable year round water source and currently the lessee is under contract with AGFD to keep water available in troughs through out the year. Lessee’s contract will be up next year and no longer required to keep water available during months the pastures are not grazed by cattle.  
Type of water source (catchment, spring, dirt tank, etc.): dirt tank and metal drinker  
Ownership of water source: State Land Department Lessee  
Distance in miles from project: .5 miles
- 6) **Is the target wildlife species a result of transplanted efforts?** \_\_\_YES XNO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.** none
- 8) **Please provide the following information about access to the proposed site:**  
Type of access (mark one): \_\_\_2x4 vehicles X4x4 only \_\_\_foot only\*\*  
\*\*If foot access only: Distance in miles: \_\_\_ Approx. hiking time: \_\_\_  
  
■ Does access to this site require crossing private or tribal lands? XYES \_\_\_NO  
  
■ Please describe any restrictions to public access:  
Currently, AGFD has an agreement with Lessee and private landowner to allow 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.**

Metal apron

24’ X 96’

Fiberglass ring tank	3' X 18' (6000 gal)
“walk-in” trough	3' X 4'
Wildlife “friendly”	
Livestock Exclosure Fence	150' X 150'

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

If Yes, please list personnel that attended and date:

John Bacorn and Paul Puckett (AGFD) during months of May, June and July.