

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

Game Branch / HPC Project Number:	15-212
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**PROJECT INFORMATION**

<b>Project Title:</b> #331 Cinders	
<b>Region and Game Management Unit:</b> Region II, 7 East	
<b>Local Habitat Partnership Committee (LHPC):</b> • Williams/Flagstaff	<b>Was the project presented to the LHPC?</b> YES[] NO[x]
<b>Has this project been submitted in previous years?</b> YES[] NO[x] <b>If Yes, was it funded?</b> YES[] NO[] → <b>Funded HPC Project #(s):</b>	
<b>Project Type:</b> Water Development	
<b>Brief Project Summary:</b> This is a redevelopment of an old style concrete water catchment with plaster apron, located on the East side of O' Leary peak in Unit 7E. The current apron is not adequately catching water, and in dry years the 900 gallons is not adequate water storage. This water source is primarily utilized by mule deer, but is also lightly used by elk.	
<b>Big Game Wildlife Species to Benefit (% benefit per species) :</b> Mule Deer – 70% Elk – 30%	

<b>Implementation Schedule</b> (Month/Day/Year):  <u>Project Start Date:</u> August 1, 2016  <u>Project End Date:</u> August 1, 2017	<b>Environmental Compliance:</b> NEPA Completed: Yes[x] No[] N/A[] Projected Completion Date: <u>8/4/2015</u>  State Historic Preservation Office - Archaeological Clearance: <i>(Provide Attachment)</i> Yes[x] No[] N/A[] Projected Completion Date: <u>8/1/2015</u>  Arizona Game and Fish Department EA Checklist: N/A[] To be Completed by: <u>Joe Currie</u> Projected Completion Date: <u>8/4/2015</u>
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**PROJECT FUNDING**

<b>Special Big Game License Tag Funds Requested:</b>	\$ 29,000.00
<b>Cost Share or Matching Funds:</b>	\$
<b>Total Project Costs:</b>	<b>\$ 29,000.00</b>

**PARTICIPANT INFORMATION**

<b>Applicant</b> (please print): Colby Walton	<b>Address:</b> Region II Headquarters 3500 South Lake Mary Road Flagstaff Arizona 86001	<b>E-mail:</b> CWalton@azgfd.gov
<b>Telephone:</b> 928-864-9384		<b>Date:</b> 8/12/2015

<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel):
<b>Project has been coordinated with:</b> Mule Deer Foundation, Coconino National Forest, Local HPC, and Arizona Game and Fish Department.

**NEED STATEMENT – PROBLEM ANALYSIS:** #331 was built approximately 50 years ago. The current apron is not effectively catching water, and additionally 900 gallons is not adequate water storage for the typical wildlife use. The closest dependable water source is a CNF trick tank on the north side of Black Mountain that is 1.8 miles away. This is usually full and sees little to moderate use by mule deer. There are two other dependable catchments that range from 2.9 to 3.4 miles away.

Mule deer are the primary big game species using this water and these deer use this water heavily. This catchment has very light use by elk. Numerous bird species, small game and non-game animals also utilize this catchment as well. Ponderosa pine, pinyon, and Apache Plume are abundant near this catchment. There are small patches of mountain mahogany on nearby hillsides where old burns have occurred.

The reconstruction of this water catchment will increase water reliability in critical mule deer habitat, and decrease water hauling expenses for the Department. As well as provide reliable water for other non-game animals in the area.

**PROJECT OBJECTIVES:**

- Increase water availability
- Increase water storage capability
- Decreasing water hauling cost
- Distributing elk habitat use patterns throughout the district

**PROJECT DESCRIPTION AND STRATEGIES:** The proposed plan would consist of AZGFD Development Branch rebuilding Game and Fish water development #331. Currently #331 is an old style concrete catchment with a water capacity of 900 gallons. The proposed plan would increase the storage capacity to approximately 7,000 gallons, and would increase the water collection efficiency of the development. A new style catchment would be built in the existing footprint of the current catchment, next to the old style concrete catchment.

**PROJECT LOCATION:** Catchment is located on the east side of O’Leary Peak in eastern GMU 7E. Take Hwy 89 to MP 434.3. Go east 3.4 miles on FR 779 (not marked) to the FR 546 junction. Go south on FR 546 3.5 miles to the catchment, which is on the west side of the road. Coordinates are N35 23.800, W111 30.158 (WGS84). Township 23 N. Range 8 E. Section 12

**LAND OWNERSHIP AT THE PROJECT SITE(S):**

- Coconino National Forest

*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:** Ponderosa Pine, Pinyon Pine and Juniper woodland, approximate elevation 7,000 ft

**ITEMIZED USE OF FUNDS:**

AZGFD Development crew will complete the installation of the project, and its estimated that \$10,000 in kind labor cost match. In addition, Wildlife Manager Colby Walton has dedicated 10 days to project development, field trips, coordination, and finalization, which is matching in kind labor of \$1200.00.

- 4 Tanks – 2,500 gallon Polyethylene Water Storage = \$ 13,944.00 (\$ 3,486.00 each)
- 1 Apron – 24’ X 72’ Metal Frame and R-panel = \$ 6,113.00
- 1 Trough – Standard Polyethylene = \$ 4,690.00
- 1 Plumbing – 3” Sch80 PVC and 2 Brass Ball Valves= \$ 1,500.001
- Fence – Elk enclosure around Apron and Tank 30’ X 80’ = \$ 1,800.00 (approximation off of 30’ X 100’)
- Total = \$ 28,047.00

Special Big Game License Tag Funds

29,000.00

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

Arizona Game and Fish contribution \$12,000 dollars

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:** The Coconino National Forest is cooperating in this effort with AZGFD to build water catchments. AZGFD would seek funding through the AZGFD HPC process and other grant funding opportunities. All future maintenance and repair of the newly constructed catchments will become the responsibility of the AZGFD.

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

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

**PROJECT MONITORING PLAN:** Department personnel will monitor the water levels in the catchments, amount of use by wildlife, maintenance needs and report to the Department’s development branch if any maintenance needs arise or if water needs to be hauled. The Unit Wildlife Manager will be the primary person responsible for monitoring.

**PROJECT MAINTENANCE:** The Department’s Development Branch will be responsible for ensuring maintenance is done. This may be accomplished by Department personnel, contractors or by volunteers.

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

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

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

**PROJECT TITLE:** #331 Cinders

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**  
Joe Currie 8/12/15
- 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\*\*  
-- Does access to this site require crossing private or tribal lands? YES     NO  \_\_\_\_\_  
-- Please describe any restrictions to public access: n/a
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
  - 4 Tanks – 2,500 gallon Polyethylene Water Storage = \$ 13,944.00 (\$ 3,486.00 each)
  - 1 Apron – 24’ X 72’ Metal Frame and R-panel = \$ 6,113.00
  - 1 Trough – Standard Polyethylene = \$ 4,690.00
  - 1 Plumbing – 3” Sch80 PVC and 2 Brass Ball Valves= \$ 1,500.00
  - Fence – Elk enclosure around Apron and Tank 30’ X 80’ = \$ 1,800.00 (approximation off of 30’ X 100’)
  - Total = \$ 28,047.00
- 10) **Was a site visit completed?** Yes     No   
If Yes, please list personnel that attended and date. Joe Currie

**ATTACHMENTS:**

(Please provide cultural clearance documentation from land management agency, e.g., FONSI, Inventory Standards, etc. Also attach any project pictures)





