

INSTRUCTIONS FOR COMPLETING HABITAT PARTNERSHIP PROGRAM HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROJECT PROPOSAL FORMS

(To increase your chances of funding, please read and follow these instructions!)

All habitat enhancement and wildlife management project proposals should be submitted to the Game Branch on "Project Proposal" forms by **September 1**.

PROJECT INFORMATION

Project Title – A brief title describing the project. Include local names in title rather than generic terms.

Project Number: - A project administration number to be assigned by the Game Branch.

Project Type - Examples: Water development, mechanical thinning, prescribed burn, revegetation, predator control, transplant, etc. If more than one project type, list components.

Project Description – A brief description of the enhancement project.

Wildlife Species to Benefit – List big game species targeted and how they will benefit from the project.

Possible Funding Partners – DO NOT fill in. The Game Branch will list what organization(s) the proposal will be sent to.

Implementation Schedule - List month and year when project is expected to be initiated and completed.

PROJECT FUNDING

Special Big Game (SBG) Funds Requested - List amount of SBG funds requested. For multi-year funding requests, show annual amounts and grand total.

Cost Share Funds – List total of cost share funding to be included. List detailed description of cost share funding in the Itemized Use of Funds section of the proposal. List all matching funds and their source. In-kind, volunteer labor, hunter access all count. ORIGINAL COST OF EXISTING PROJECT DOES NOT QUALIFY AS MATCH!

Total Project Cost – Total of SBG funds and all matching/ partner funds.

PARTICIPANT INFORMATION

Applicant - Identify the specific contact person (the person most familiar with the project). Include address and telephone number. This individual must be authorized by his or her agency to receive and administer project money. **If a private individual, a Stewardship Agreement with the Arizona Game and Fish Department will be required.**

AGFD Contact – If the applicant is not AGFD personnel, the proposal should be coordinated with a representative of the AGFD.

Coordinated with - List land management agency personal, and /or private landowner consulted with when developing the proposal. The expectation is that coordination with other agencies occurs prior to project proposal submission.

Applicant's Signature – Applications may be submitted electronically to save time, however, a signed original must be sent to the Game Branch (address on application). Proposals must be signed by the agency or individual that will be responsible for completing the project and administering the funds.

DETAILED PROJECT INFORMATION

Need Statement/ Problem Analysis - What resource problems will be addressed by this project? What are the anticipated benefits to the wildlife resource?

Project Objective - List specific objectives. Examples:

- a) Improve water availability for antelope-elk-mule deer on critical winter range.
- b) Improve forage quality and quantity on mule deer winter range.
- c) Improve antelope fawn survival.
- d) Establish bighorn sheep into unoccupied sheep habitat.

Project Strategies - List specific actions that will be taken to achieve the project objective. Examples:

- a) Deepen and seal existing dirt tank with bentonite to improve water holding capability.
- b) Use agra axe to thin junipers on 500 acres of winter range.
- c) Remove coyotes from antelope fawning areas prior to fawn drop.
- d) Transplant 25 bighorn sheep.

Project Location – Provide legal description (township, range, section). It is advisable to attach a map with project site clearly marked. Include size, in acres, of habitat enhancement project, and land ownership at project site.

Land Ownership at Project Site – Very important! List landowner's name if private property. Private property projects require a Stewardship agreement and may also be eligible to receive funding from the Landowner Incentive Program.

Habitat Description – What are the major vegetative types and associations? Include average elevation.

Itemized Use of Funds – Important! Identify specifically how SBG funds will be used (helicopter \$5,000; Agra-Axe \$15,000; guzzler \$2,500; etc.). Also include itemized break down of cost share funding. Who will request payment, for what amounts, and for which project components? It is advisable to consult with possible vendors for accurate estimates of project costs.

List Cooperators and Describe Potential Participation – List cooperators who may provide materials, equipment, or labor.

Project Monitoring Plan - Identify what monitoring program exists or will be implemented to assess and quantify the results achieved by the project. Include both short term and long term monitoring.

Project Maintenance – If needed, who will provide maintenance for this project?

Project Completion Report to be Filed By – Who is responsible for the submitting the Project Completion Report?

Water Development Projects- Water Development Worksheet is to be completed and included only with water projects. List individual in Development Branch through which this project has been coordinated. **Water development projects must be coordinated with Joe Currie (602) 789-3867 or Ed Jahrke (602) 789-3482 prior to proposal submission.**

Tree Shear (Agra-axe) Projects – Costs vary from site to site. Terrain features such as excessive slope or rockiness will influence the overall cost. There are four vendors currently on contract and they are typically willing to visit the site and assist in determining cost.

REPORTING PROCEDURE

A Project Completion Report must be submitted within 30 days of project completion. This is a requirement for all funded projects. As applicable, photos or other graphic material may be requested.

Projects approved for funding, on which no action has been taken within 24 months of funding approval must be closed out and

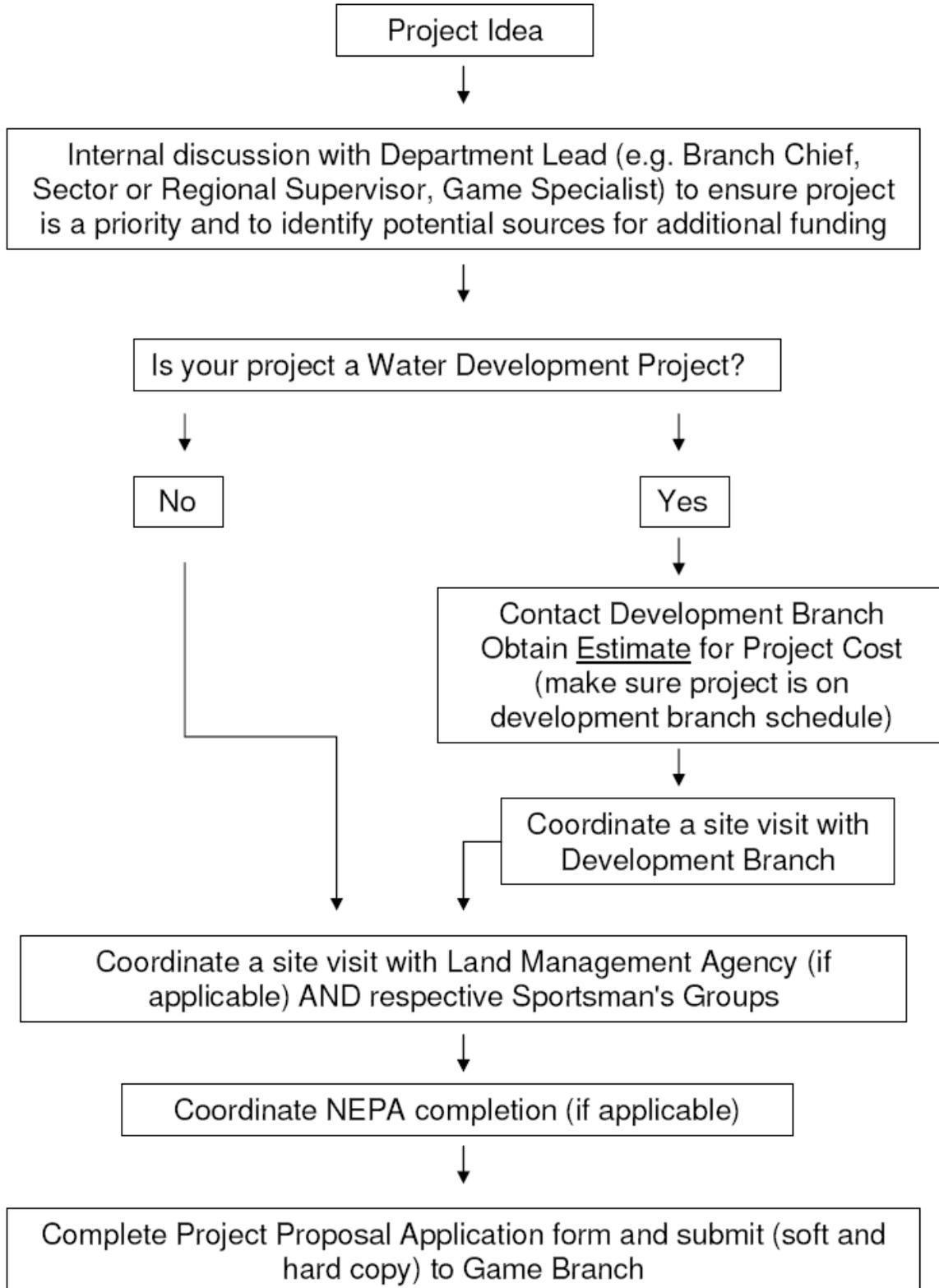
resubmitted, if desired. It is not necessary to complete the project within 24 months, however, any projects should at least be started within 24 months. A status report for all funded projects is due by August 31 of the year following funding approval. This step facilitates reporting to the funding partners.

PROCEDURE FOR SUBMITTING PROPOSALS

Proposals should be submitted to the Game Branch on or before September 1. Electronic copies are preferred with a signed hard copy sent via mail. For additional information contact:

Arizona Game and Fish Department, Game Branch
2222 W. Greenway Road
Phoenix, Az. 85023
(602) 789-3352
Fax (602) 789-3929
E-mail: rothompson@azgfd.gov

Project Flow Chart for proposals submitted through the Habitat Partnership Committee Process



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

PROJECT INFORMATION

Project Title: Development of Wildlife Waters throughout the 96 Hills Mountain Range – Phase One

Project No.

Region/GMU: 5/37B

HPC: Tucson

Project Type: New Water Catchments

Project Description:

This proposal uses a landscape-scale approach to provide permanent long-term wildlife water sources throughout the 96 Hills range in GMU 37B. The 96 Hills represents some of the best mule deer and javelina habitat in the unit. It has been rested for approximately 10 years, grazed only during short periods during spring green-ups. Water, however, is extremely scarce throughout the range and is only present in earthen stock tanks after a heavy monsoon period and during the winter and early spring months and seldom lasts into May. The installation of 7 new water catchments strategically located throughout the range would enable mule deer to take advantage of forage resources currently unavailable due to lack of nearby water. The project would be completed in series of phases (3-4) installing 2-3 catchments per year pending funding and volunteer availability. The 10,000+ gallon systems are either Xerxes or apron/ring tank systems. Each system will utilize either an R-panel collection apron or a drainage collection point or a combination of the two. Wildlife friendly fences will be installed around each of the developments to exclude livestock. Providing water throughout the range also may potentially increase mule deer and javelina populations which will intern increase hunter opportunity. As stated by Marshal et al. (2006), (water) developments may reduce the need for seasonal movements, make a greater proportion of the range and its forage available to deer, reduce competition for forage in exploited range, decrease risks associated with long-distance movements (e.g., Nicholson et al. 1997, Bleich and Pierce 2001) and, thereby, increase deer abundance (Krausman and Czech 1998).

Wildlife Species to Benefit: mule deer, javelina, small game and non-game species

Possible Funding Partners:

Implementation Schedule:

Beginning: September 1, 2008

Completed: June 30, 2011

NEPA Compliance: (if applicable)

Completed: Yes No

Projected Completion Date:

PROJECT FUNDING

SBG Funds Requested: \$67,823 (North 96 Hills - \$37,537 & 96 Ranch #11 - \$29,286 + 2 cameras @ \$500ea) Phase 2

Cost Share Funds: \$40,000 – Phase 2

Total Project Costs: \$107,823 – Phase 2

PARTICIPANT INFORMATION	
Applicant: Ben Brochu Telephone: (520) 229-3222	Address: Arizona Game and Fish Department 555 N. Greasewood Road Tucson, AZ 85745
AGFD Contact and Phone No. (If applicant is not AGFD personnel)	
Coordinated with: Joe Currie (AGFD), Rachel McGee and John Patton (ASLD)	Date: 8-6-07, 8-23-07
Applicant's signature:	Date:

SEND COMPLETED APPLICATIONS TO:
Game Branch
2221 W. Greenway Rd.
Phoenix, AZ 85023
rothompson@azgfd.gov

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES X NO

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?

Phase one of the project was funded on September 1, 2007. Both catchments are scheduled to be built using contractors during the fall/winter of 2008/2009. Prior to this, two of the proposed developments were submitted on March 1, 2007. They were NOT funded.

NEED STATEMENT/PROBLEM ANALYSIS:

Game management unit 37B was once regarded as a premier mule deer unit. Beginning around 1995, mule deer numbers in the unit began to decline. They have not recovered since.

Mule deer numbers and distribution have been declining throughout the West since the latter third of the 20th century. To address this concern, the Western Association of Fish and Wildlife Agencies (WAFWA), an organization represented by 17 states and four Canadian provinces, created a Mule Deer Working Group (Group). Using adaptive resource management, the Group sent out to find “solutions to our common mule deer management problems” in the seven different ecoregions in North America. Overall, loss and degradation of habitat was determined to be the single greatest factor that has caused declines in mule deer. In the Southwest Desert Ecoregion, rainfall and competition with livestock were found to be the two biggest limiting factors. The number one recommendation of the Group to improve mule deer management in the Southwest Desert Ecoregion was to **create sources of water in areas where water is limiting** and where other potentially limiting factors are being addressed. Also, consistent with the Group’s recommendation is the Department’s Species Management Guidelines (SMG) which provides goals, objectives, strategies and procedures for a specific species. The SMG outlines four ways to improve and enhance deer habitat to accomplish the overall goal of increasing mule deer populations to levels that provide diverse recreational opportunities. Number one on the list is: Protect and maintain current water sources. Where water is lacking and the distribution and abundance of deer can be influenced, develop **new** water sources.

The 96 Hills represents some of the best mule deer and javelina habitat in the unit. It has been rested for approximately 10 years, grazed only during short periods during spring green-ups. Jojoba (*Simmondsia chinensis*), a critical browse species of mule deer as described below, is abundant throughout the 96 Hills but is underutilized due to a lack of nearby water. The Wildlife Management Handbook, *Managing Desert Mule Deer*, states that browse comprises from 40-70% of the annual diet of mule deer and is especially important in fall, winter and early spring. During droughts browse may contribute up to 90% of the annual diet of mule deer.

Water is a critical component of mule deer habitat. Deer habitat, no matter how attractive, will not be utilized if it is not near a source of water. Water sites should be no more than 2-3 miles apart and even closer in rough terrain (Wildlife Management Handbook, *Managing Desert Mule Deer*). WAFWAs Habitat Guidelines for Mule Deer support this suggesting that water sources not be more than 3 miles apart so all mule deer habitat is within 1.5 miles of a permanent water source (Brownlee 1979, Dickinson and Garner 1979). Water is extremely scarce in the range and is only present in earthen stock tanks after a heavy monsoon period and during the winter and early spring months and seldom lasts into May. Marshal et al. (2006) stated that water in the absence of forage and cover likely will not create mule deer habitat, but forage and cover in the absence of water may provide deer habitat, at least seasonally. Thus, catchments might make forage resources, which would otherwise be unavailable, available year-round. Further, where deer might otherwise make seasonal movements between parts of their range with forage and parts with water, developments may reduce the need for seasonal movements, make a greater proportion of the range and its forage available to deer, reduce competition for forage in exploited range, decrease risks associated with long-distance movements (e.g., Nicholson et al. 1997, Bleich and Pierce 2001) and, thereby, increase deer abundance (Krausman and Czech 1998).

PROJECT OBJECTIVES:

- To increase deer and javelina populations by providing dependable, long term, self-sustaining, quality water sources and by increasing the use of otherwise unavailable forage resources
- To increase hunter opportunity
- To install systems that have a long lifespan (40-50 years for storage and collection systems, 25 years for drinking troughs)
- To install systems that do not require supplemental hauling except in rare or exceptional circumstances
- To install systems that have minimal visual impacts and blend in with surrounding landscape
- To install systems that are accessible and that requires minimal routine maintenance
- To monitor the use of these waters using remote digital game cameras

PROJECT STRATEGIES:

Each project will be completed in one of three ways:

1. Utilize big game special tag funds, personnel from the Arizona Game and Fish Department Development Branch and approximately 15 volunteers to install each of the new systems. Two to three systems will be installed per year pending the schedule of the Development Branch and available funds.
2. Pending available big game special tag funds, projects could be contracted out at an increased cost. The total project would be completed in a fraction of the time.
3. Utilize big game special tag funds for the purchase of the system components. Pending availability and willingness use donated volunteer heavy equipment (backhoe) and labor to build the systems. If donated backhoe is not available, one will be rented from Tucson and transported to and from the project site. Development Branch would only be responsible for supplying 1-2 people for project supervision and for transporting the required supplies and specialized equipment to the site. Nearly

the entire project would be completed with volunteers.

Phase 1- 2007/2008 Cycle

1. Coyote Peak Development (11,700 gallons) – purchase and install the following components:
 - (2) 3’x18’ fiberglass ring tanks
 - (1) 3’x4’ standard walk-in trough
 - (1) 24’x96’ R-panel collection apron
 - 150’x150’ wildlife friendly piperail fence
 - Required plumbing components
 - Remote digital monitoring camera

2. Rock Tank Catchment Development (11,700 gallons) – purchase and install the following components:
 - (2) 3’x18’ fiberglass ring tanks
 - (1) 3’x4’ standard walk-in trough
 - (1) 24’x96’ R-panel collection apron
 - 150’x150’ wildlife friendly piperail fence
 - Required plumbing components
 - Remote digital monitoring camera

Phase 2 – 2008/2009 Cycle

3. 96 Ranch #11 Development (10,800 gallons) – purchase and install the following components:
 - (1) 8’x32’ Xerxes tank
 - (1) 9’ fiberglass walk-in drinker
 - 150’x150’ wildlife friendly piperail fence
 - (3-4) 6” collection points and ~ 140’ of 6” Sch40 PVC pipe
 - Required plumbing components
 - Remote digital monitoring camera

4. North 96 Hills Development (11,700 gallons) – purchase and install the following components:
 - (2) 3’x18’ fiberglass ring tanks
 - (1) 3’x4’ standard walk-in trough
 - (1) 24’x96’ R-panel collection apron
 - 150’x150’ wildlife friendly piperail fence
 - (1) 6” collection point and ~ 100’ of 6” Sch40 PVC pipe
 - Required plumbing components
 - Remote digital monitoring camera

Phase 3 – 2009/2010 Cycle

5. Brady Wash Development (10,800 gallons) – purchase and install the following components:
 - (1) 8’x32’ Xerxes tank
 - (1) 9’ fiberglass walk-in drinker
 - 150’x150’ wildlife friendly piperail fence
 - (1-2) 6” collection points and ~ 120’ of 6” Sch40 PVC pipe
 - Required plumbing components

6. West 96 Hills (11,700 gallons) – purchase and install the following components:
- (2) 3’x18’ fiberglass ring tanks
 - (1) 3’x4’ standard walk-in trough
 - (1) 24’x96’ R-panel collection apron
 - 150’x150’ wildlife friendly piperail fence
 - (1-2) 4” collection points and ~ 80’ of 4” Sch10 Gruv-lok pipe and ~80’ of 4” Sch40 PVC pipe
 - Required plumbing components

Phase 4 (if needed) – 2010/2011 Cycle

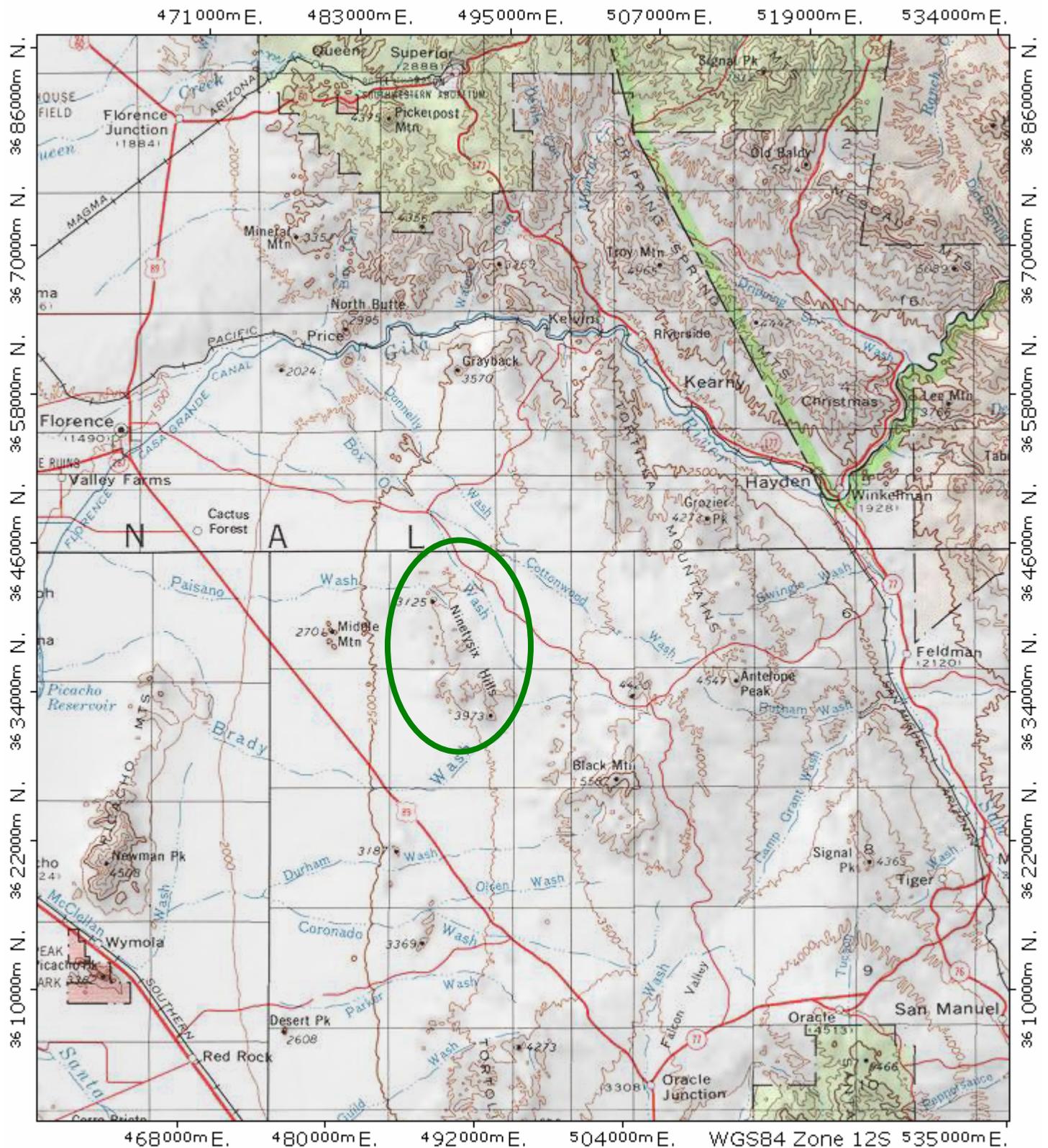
7. Prospect Hill (11,700 gallons) – purchase and install the following components:
- (2) 3’x18’ fiberglass ring tanks
 - (1) 3’x4’ standard walk-in trough
 - (1) 24’x96’ R-panel collection apron
 - 150’x150’ wildlife friendly piperail fence
 - (1) 6” collection point and ~ 120’ of 6” Sch40 PVC pipe
 - Required plumbing components

PROJECT LOCATION:

The 96 Hills range is located in west/central GMU 37B.

- **Map 1** – General project location in **GREEN** within GMU 37B
- **Map 2** – Location of 7 proposed catchments in **RED**. Three existing catchments are noted in **BLUE**.

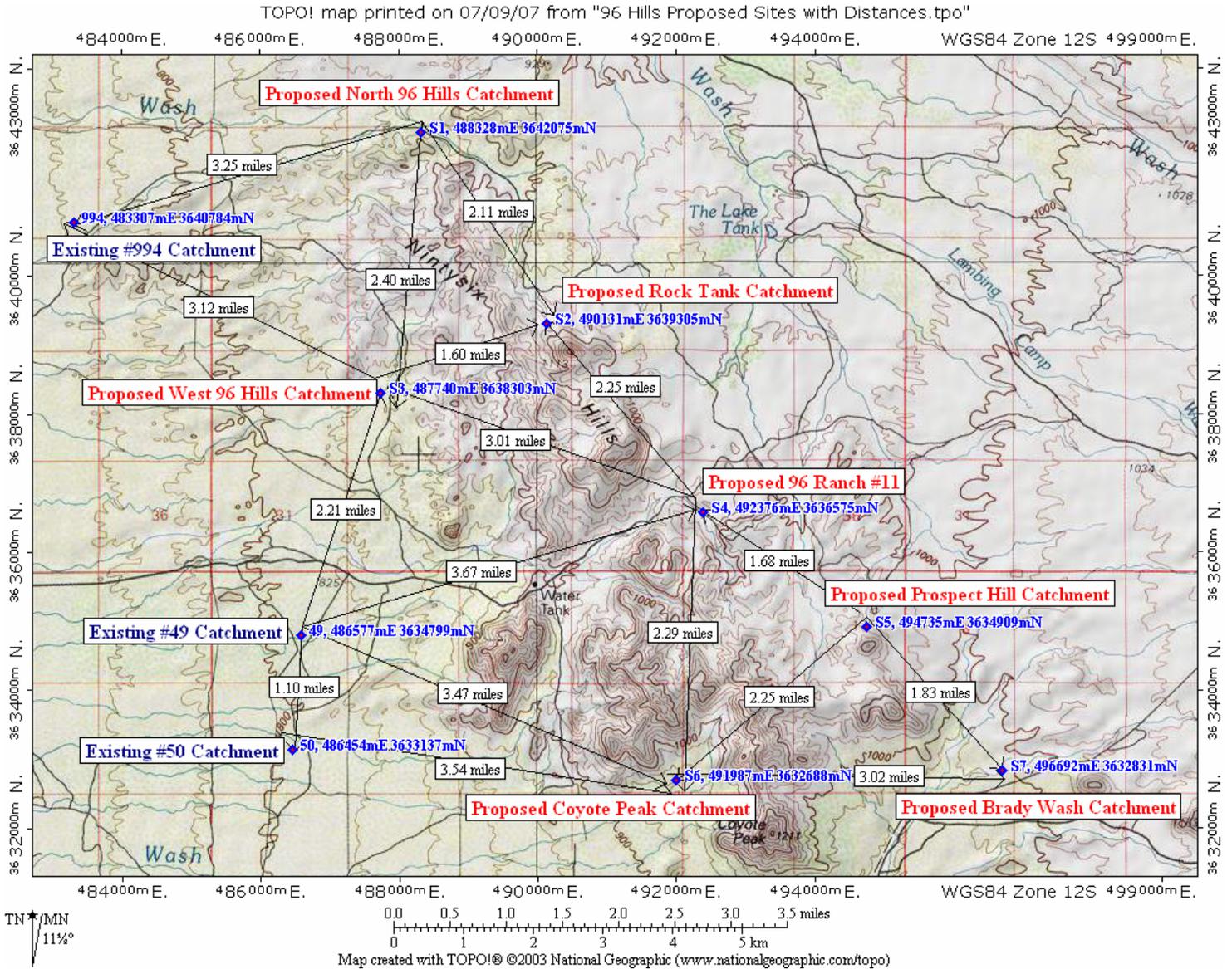
TOPO! map printed on 07/09/07 from "Untitled.tpo"



TN * MN
11 1/2°

Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com/topo)

(revised 7-02-2007)



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

The project site is on land administered by the Arizona State Land Department, Tucson Field Office, 4455 S. Park Avenue Suite 101 Tucson, Arizona 85714 (520) 628-5480.

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

HABITAT DESCRIPTION:

Game management unit 37B is located in Pinal County, Arizona, southeast of Phoenix. Two main biotic community types, Sonoran Desertscrub and Semidesert Grassland, comprise the bulk of the habitat in 37B. The catchment locations in the 96 Hills are represented by both community types. Common vegetation includes various types of grama grasses (*Bouteloua spp.*), bush muhly (*Muhlenbergia porteri*), turpentine bush (*Ericameria laricifolia*), foothill palo verde (*Cercidium microphyllum*), mesquite (*Prosopis spp.*), jojoba

(*Simmondsia chinensis*), desert hackberry (*Celtis pallida*) and fairy feather duster (*Calliandra eriophylla*). Average rainfall is approximately 12-15" and elevation ranges from approximately 2800' to 3500'.

ITEMIZED USE OF FUNDS:

- **11,700 gallon ring tank system without collection point(s) - Coyote Peak and Rock Tank Catchments**

Item	Dimintions	Cost	Cost Share	Funds Needed
2-3'x18' fiberglass ring tank (5700g each)	3'x18' each	\$12,680		\$12,680
24'x96' R panel apron	24'x96'	\$7,390		\$7,390
3'x4' walk-in standard trough	3'x4'	\$2,110		\$2,110
Wildlife "friendly" livestock exclosure fence	150'x150'	\$2,500		\$2,500
Plumbing		\$1,000		\$1,000
Tax @ 8.1%		\$2,080		\$2,080
Labor		\$20,000	AGFD, Volunteers	\$0
Total		\$27,760		\$27,760

- **11,700 gallon ring tank system with collection point(s) - North 96 Hills, West 96 Hills, and Prospect Peak Catchments**

Item	Dimintions	Cost	Cost Share	Funds Needed
2-3'x18' fiberglass ring tank (5700g each)	3'x18' each	\$15,418		\$15,418
24'x96' R panel apron	24'x96'	\$10,779		\$10,779
3'x4' walk-in standard trough	3'x4'	\$2,640		\$2,640
Wildlife "friendly" livestock exclosure fence	150'x150'	\$2,500		\$2,500
Plumbing		\$2,000		\$2,000
Tax @ 8.1%		\$2,700		\$2,700
Backhoe Rental for 1 week		\$1,500		\$1,500
Labor		\$20,000	AGFD, Volunteers	\$0
Total		\$57,537		\$37,537

- **Xerxes System - 10,800gallon - 96 Ranch #11 and Brady Wash Catchments**

Item	Dimintions	Cost	Cost Share	Funds Needed
10,000 gallon Xerxes tank	8'x32' buried	\$15,704		\$15,704
9' walk-in trough	9'	\$5,500		\$5,500
Plumbing/collection point components	varies	\$2,000		\$2,000
Piperail livestock exclosure fence	150'x150'	\$2,500		\$2,500
Tax @ 8.1%		\$2,082		\$2,082
Backhoe Rental for 1 week		\$1,500		\$1,500
Labor		\$20,000.00	AGFD, Volunteers	\$0.00
Total		\$49,286	\$20,000	\$29,286

- **Remote Digital Monitoring Camera - \$500 each**

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

- Each project may be different – below is an all inclusive list of potential cooperators.
 - AGFD Development Branch: acquire the materials and provide equipment and minimal labor for construction if needed.
 - Arizona Deer Association – volunteer labor and equipment
 - Mule Deer Foundation – volunteer labor and equipment
 - Coues Whitetail.com chat room inquiries – volunteer labor and equipment
 - Tucson HPC: coordinate project funding opportunities
 - Arizona State Land Department – Arch and NEPA clearances

PROJECT MONITORING PLAN:

Remote digital cameras will be used to monitor density and frequency of wildlife water use during the months of May-July if cameras are available. This will enable the Wildlife Manager to make better informed decisions for the management of wildlife within GMU 37B.

Water levels will be monitored at least twice per year with emphasis during the warmer drier months by the Wildlife Manager. Additional monitoring will be conducted as needed. Minor maintenance will also be conducted as needed by the Wildlife Manager. The AGFD Development Branch will be responsible for major maintenance issues.

PROJECT MAINTENANCE:

The maintenance of each catchment will continue to be the responsibility of the AGFD. The Wildlife Manager will be responsible for coordinating this.

PROJECT COMPLETION REPORT TO BE FILED BY:

Ed Jahrke, Joe Currie or Ben Brochu

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: Development of Wildlife Waters throughout the 96 Hills Mountain Range – Phase Two

- 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 – August 6, 2007
- 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: Catchments #49, 50, 994
Type of water source (catchment, spring, dirt tank, etc.): Catchments
Ownership of water source: AGFD
Distance in miles from project: Varies per proposed new catchment – See Map 2 for distances.
- 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, etc). If private land, list landowner.**
N/A
- 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: Approx. hiking time:

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

-- Please describe any restrictions to public access: None
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
-see next page

- **11,700 gallon ring tank system without collection point(s) - Coyote Peak and Rock Tank**

Catchments

Item	Dimintions	Cost	Cost Share	Funds Needed
2-3'x18' fiberglass ring tank (5700g each)	3'x18' each	\$12,680		\$12,680
24'x96' R panel apron	24'x96'	\$7,390		\$7,390
3'x4' walk-in standard trough	3'x4'	\$2,110		\$2,110
Wildlife "friendly" livestock exclosure fence	150'x150'	\$2,500		\$2,500
Plumbing		\$1,000		\$1,000
Tax @ 8.1%		\$2,080		\$2,080
Labor		\$20,000	AGFD, Volunteers	\$0
Total		\$47,760		\$27,760

- **11,700 gallon ring tank system with collection point(s) - North 96 Hills, West 96 Hills, and Prospect Peak Catchments**

Item	Dimintions	Cost	Cost Share	Funds Needed
2-3'x18' fiberglass ring tank (5700g each)	3'x18' each	\$15,418		\$15,418
24'x96' R panel apron	24'x96'	\$10,779		\$10,779
3'x4' walk-in standard trough	3'x4'	\$2,640		\$2,640
Wildlife "friendly" livestock exclosure fence	150'x150'	\$2,500		\$2,500
Plumbing		\$2,000		\$2,000
Tax @ 8.1%		\$2,700		\$2,700
Backhoe Rental for 1 week		\$1,500		\$1,500
Labor		\$20,000	AGFD, Volunteers	\$0
Total		\$57,537		\$37,537

- **Xerxes System - 10,800gallon - 96 Ranch #11 and Brady Wash Catchments**

Item	Dimintions	Cost	Cost Share	Funds Needed
10,000 gallon Xerxes tank	8'x32' buried	\$15,704		\$15,704
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Plumbing/collection point components	varies	\$2,000		\$2,000
Piperaill livestock exclosure fence	150'x150'	\$2,500		\$2,500
Tax @ 8.1%		\$2,082		\$2,082
Backhoe Rental for 1 week		\$1,500		\$1,500
Labor		\$20,000.00	AGFD, Volunteers	\$0.00
Total		\$49,286	\$20,000	\$29,286

- **Remote Digital Monitoring Camera - \$500 each**

10) Was a site visit completed? X Yes No
 Joe Currie and I conducted site visits on August 6, 2007.

ARIZONA GAME AND FISH DEPARTMENT
TREE SHEARING WORKSHEET

PROJECT NAME: _____

- 1) **What is the estimated acreage of the project?**

- 2) **How are the trees going to be cleared? (agra axe, chain saw, push):**

- 3) **What is the estimated number of trees per acre?**

- 4) **Describe trees to be cleared (species, estimated diameter, single stem, multi-stem):**

- 5) **Describe terrain (slope, soil type, rocks, etc.)**

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

- 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

Is the site relatively accessible for tree shearing equipment? _____YES ___NO

Please describe any restrictions to public access:

PROJECT COMPLETION REPORT

(Please complete the report and forward to Game Branch
within 30 days of the completion of the project. THANK YOU!)

Project Title: _____

Project number: _____

GMU: _____

Project Coordinator (IF NOT APPLICANT): _____

Agency: _____

Address: _____

Phone: _____

Email: _____

Project Completion Date _____

COOPERATING AGENCIES AND/OR CONSERVATION GROUPS, LANDOWNERS, ETC.:

PROJECT ACCOMPLISHMENTS:

PROJECT RESULT ACTIONS:

(List practices implemented as a result of project, i.e. area rested from grazing for 2 yrs., season recommendations revised based on new distributions, data received from project, etc.)

COMMENTS ABOUT THE PROJECT:

(Please list updates, reports, concerns, suggestions)

MAINTENANCE/MONITORING SCHEDULE (from this point on): WHO and WHEN?

PHOTO: (Please attach)

MAIL COMPLETED PROJECT COMPLETION FORM TO:

**Game Branch
Arizona Game and Fish Department
2221 W. Greenway Road
Phoenix, AZ 85023
rothompson@azgfd.gov**