

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

PROJECT INFORMATION	
Project Title: GMU 12A/12B Double Count Deer Survey	Project No. 11-201
Region/GMU: Region II, GMU 12A and 12B	HPC:
Project Type: Population Estimate Survey	
Project Description: Complete Helicopter Double Count Mule Deer Survey for GMU 12A and GMU 12B. Data obtained to be used to develop a mule deer population estimate for the above units. This estimate will be used to assist in developing permit levels in these units for the next 3 years.	
Wildlife Species to Benefit: Mule Deer 100%	
Possible Funding Partners: ADA	
Implementation Schedule: Beginning: 12/2012 Completed: 01/2013	NEPA Compliance: (if applicable) Completed: Yes ___ No ___ Projected Completion Date:
PROJECT FUNDING	
SBG Funds Requested: \$24,000	
Cost Share Funds: \$ 0.00	
Total Project Costs: \$24,000	
PARTICIPANT INFORMATION	
Applicant: Todd M Buck (please print) Telephone: 928-856-0740	Address: 3500 S. Lake Mary Road Flagstaff, AZ 86001
AGFD Contact and Phone No. (If applicant is not AGFD personnel)	
Coordinated with: Game Branch	Date:
Applicant's signature: Todd M Buck	Date: 08/16/2011

SEND COMPLETED APPLICATIONS TO:

**Game Branch
AZ Game and Fish Dept.
5000 W. Carefree Highway
Phoenix, AZ 85086**

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES _____ NO XX

No Local HPC

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

Yes/Yes

NEED STATEMENT/PROBLEM ANALYSIS:

The Arizona Game and Fish Department, under agreement with the Arizona Deer Association, has agreed to conduct a double count survey of GMU 12A and GMU 12B every four years to determine the population level of Mule Deer in these units. This information will be used to adjust the current computer model in an effort to refine the management of these important deer herds.

PROJECT OBJECTIVES:

The objective of this project is to derive a population estimate for the 12A and 12B wintering deer herds in an attempt to refine current management efforts.

PROJECT STRATEGIES:

A complete survey of GMU 12A and GMU 12B will be conducted in Dec/Jan of 2012/2013 via helicopter utilizing 3 observers and a pilot and implementing the double count protocol in an effort to obtain a population estimate for these units. Results will be analyzed using the mathematical equations in the double count protocol to estimate deer density and obtain an overall population estimate for these units. These estimates will be used in computer modeling efforts to assist in determining permit levels for the next 3 years.

PROJECT LOCATION:

All suitable winter deer range in GMU 12A and GMU 12B. See Attached map (page 8).

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

USFS/BLM

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

HABITAT DESCRIPTION:

The winter range in GMU 12A and GMU 12B is roughly 5300' to 6600' in elevation and is

characterized by various grasses and forbes, sagebrush (*Artemisia tridentata*), cliffrose (*Cowania mexicana*), pinion trees (*Pinus sp.*), and Utah juniper trees (*Juniperus utahensis*).

ITEMIZED USE OF FUNDS:

Contract Helicopter (Papillion), Fuel Truck, and Ferry Time - \$1,000.00/Hour for 24 Hours
= \$24,000

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AZGFD Personnel

PROJECT MONITORING PLAN:

N/A

PROJECT MAINTENANCE:

N/A

PROJECT COMPLETION REPORT TO BE FILED BY:

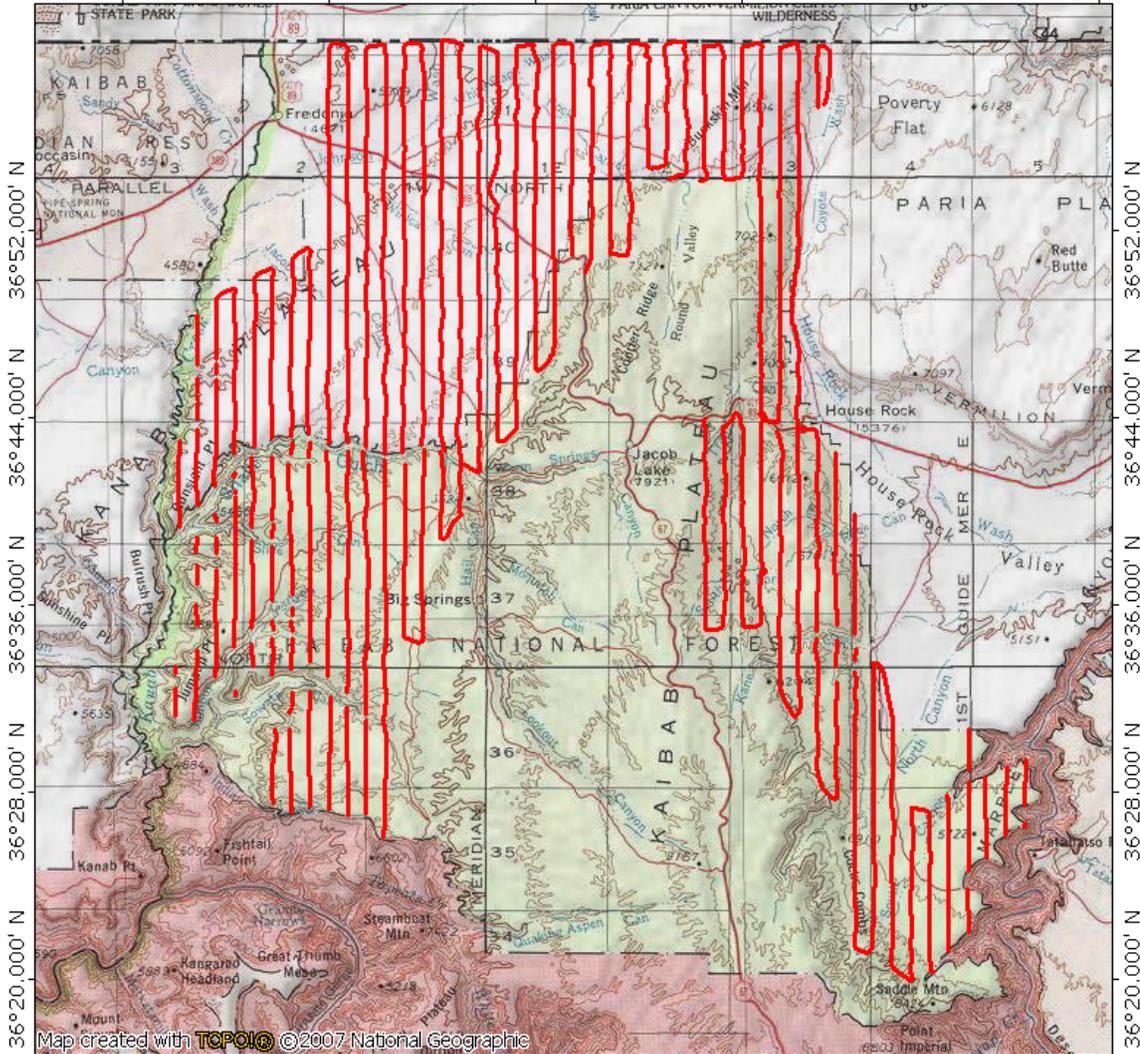
Todd Buck
Arizona Game and Fish Department
Wildlife Manager GMU 12A
928-856-0740

WATER DEVELOPMENT PROJECTS (see attached worksheet):

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

TOPO! map printed on 02/09/09 from "Unit 12 12 double count overview.tpo"

112°40.000' W 112°29.000' W 112°18.000' W 112°07.000' W WGS84 111°48.000' W



Map created with TOPO! © 2007 National Geographic

