

ARIZONA GAME AND FISH DEPARTMENT

HERITAGE PUBLIC ACCESS PROGRAM PREFERRED PROJECT TYPES 2006 Grant Cycle

Project proposals will only be accepted for the types of projects outlined below.

- ❖ New wildlife-oriented recreational access (motorized or non-motorized) onto public or State Trust lands previously inaccessible to the public.
- ❖ Obtaining perpetual or other long-term rights-of-way to secure public access for wildlife oriented recreation where it may be jeopardized by potential land development or other land status changes.
- ❖ Public works projects providing new or enhanced recreational access opportunities on or to public lands for persons with disabilities.
- ❖ Public works projects providing new or enhanced recreational access opportunities on or to public lands through improved design and construction methods.
- ❖ Education and information outreach pertaining to public access in Arizona, including ethical and responsible use of private and public lands, and opportunities for volunteerism.
- ❖ Realignments of existing access routes to protect sensitive habitat areas.
- ❖ The ethical use of off-highway vehicles.

The following are examples of projects that are ineligible for funding utilizing Heritage Public Access funds:

- Projects conducted inside or within a five (5) mile radius of urban areas unless they provide new and tangible access to the public.
- Projects consisting solely of the production of pamphlets and/or maps unless intended for a newly created access area.
- Projects utilizing funding to construct trails within urban/county parks unless they provide new and tangible access to the public.

Any proposals intended inside urban areas that do not meet the aforementioned criteria should apply through the Heritage Urban Wildlife/Urban Habitat subprogram. Research projects are not applicable for this funding source.

Where appropriate and feasible, projects should be designed and constructed to accommodate persons with disabilities.

Robyn Beck
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ARIZONA GAME AND FISH DEPARTMENT

HERITAGE ENVIRONMENTAL EDUCATION **& SCHOOLYARD PROGRAM**

Project proposals will only be accepted for the types of projects outlined below.

PROJECT EMPHASIS

Projects that utilize Arizona wildlife or wildlife conservation issues as a learning theme, and which include an outdoor, field trip, or camp component for youth ages K-12. Projects must meet the following requirements:

- Projects must be based upon sound methodology and strong principles of education and learning strategies.
- Projects must involve students in collecting scientific data on local wildlife issues, including wildlife habitat issues and must include the communicating of the results of their studies (to include wildlife watching and appreciation, wildlife identification, and wildlife conservation issues).
- Projects must include outdoor, field experience, hands-on learning and must actively engage students in local or regional environmental and wildlife studies

SCHOOLYARD HABITAT

For the Schoolyard habitat program area, there are no major changes in the Eligible Activities as listed in the Grant Application Manual. We strongly encourage projects that involve the planning and design of more comprehensive habitat projects. *Students must play key roles* in these planning efforts. Also, we will not accept pond projects focused on raising endangered fish due to changes in federal regulations. Schoolyard projects must demonstrate a 5-year life cycle. Programmatic projects must demonstrate a 4-year life cycle.

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ARIZONA GAME AND FISH DEPARTMENT

**HERITAGE URBAN WILDLIFE/URBAN HABITAT
SUBPROGRAM**

Project proposals will only be accepted for the types of projects outlined below.

NOTE: To be eligible for Urban funding the project must be within the corporate limits of an incorporated city or town, or within 5 miles (straight-line distance) of the boundary.

- Projects to develop and encourage watchable wildlife programs in urban areas.
- Wildlife festivals including planning, promotion and implementation.
- Management Plans – both biological and recreational – for AZGFD properties in urban settings.
- Hispanic/minority outdoor programs emphasizing awareness, appreciation and education about wildlife and its habitats.
- Projects that assess proactive measures to reduce the risk of incidence of human/wildlife conflicts in urban areas including land management practices and public awareness programs.
- Projects promoting community partnerships focusing on methods that enhance public enjoyment of wildlife in urban settings.

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**Heritage Grant Application Manual Supplement:
Sensitive Elements Eligible for
IIAPM Grant Proposals Submitted in 2006**

June, 2006

The sensitive elements (e.g. species and habitats) for which Identification, Inventory, Acquisition, Protection, and Management (IIAPM) grant proposals may be submitted in 2006 are listed in this document.

Any proposal not in full compliance with the following guidance will be rejected:

Proposals will only be accepted for the element-specific objectives listed on the following pages.

Proposals must address at least one of the listed elements and one or more of the listed Grant Proposal Objectives for that element.

The element(s) and objective(s) on which a proposal is focused and the project deliverables must be clearly identified in the proposal.

Proposals are often more competitive (in terms of funding consideration) when they address more than one listed sensitive element, and when they provide comparable information for other (non-listed) wildlife and/or habitats in the project area and when they can be tied to actions or stressors identified in Arizona's Comprehensive Wildlife Conservation Strategy.

Our intent is to fund projects that will give the greatest return for the Heritage funds invested.

Please contact the Department's IIAPM Wildlife Management Project Leader or Assistant Project Leaders (602 789-3500) regarding any questions about elements or objectives eligible this year.

Note: the list of *Wildlife of Special Concern in Arizona* and the list of CWCS priority species (Wildlife of Greatest Conservation Need – Tier 1 and 2) that are referenced several times in this document are available from the Department's Nongame Branch (2221 West Greenway Road, Phoenix, Arizona 85023-4399; phone 602 789-3507; fax 602 789-3926) or by download from the Department's website (<http://www.azgfd.gov/>).

Wildlife Elements	Grant Proposal Objectives
<u>Mammals</u>	
Bats: Miscellaneous	A. Projects that facilitate the implementation of the Arizona Bat Conservation Strategic Plan available at http://www.azgfd.gov/ .
Pronghorn (all subspecies)	<p>A. Public information activities, materials, and/or plans on open space planning and its benefits to pronghorn in suburban/rural development areas, statewide.</p> <p>B. (1) Research and development of criteria for habitat enhancement in grasslands ecosystems, with particular emphasis on grasslands restoration in juniper invasion areas and development of measurement parameter guidelines and locally valid prescriptions for pronghorn habitat management.</p> <p>(2) Research on pronghorn habitat on the Anderson Mesa.</p> <p>(3) Determine the quantity and quality of herbaceous ground cover needed to help increase fawn recruitment in Colorado Plateau grassland habitats in northern Arizona.</p>

Wildlife Elements	Grant Proposal Objectives
<u>Birds</u>	
Birds: Various Grassland Assemblages	A. Field surveys of AZGFD properties for birds of concern.
Arizona Partners in Flight plan	A. Projects that implement priorities identified in the AZ Partners in Flight Plan, available at http://www.azgfd.gov/ .
Riparian Raptors (Mississippi kite, gray hawk and common black-hawk) Zonetail	<p>A. Gather current status, population estimates, and demography information.</p> <p>B. <u>Surveys</u></p>

Wildlife Elements	Grant Proposal Objectives
<u>Reptiles</u>	
Tortoise, Desert	<p>A. Using AGFD-approved protocols, conduct population sampling at one or more AGFD-selected permanent study plots in the Sonoran Desert and/or Mohave Desert.</p> <p>B. Research on population viability, genetics, disease, and behavior.</p> <p>C. Research on the effectiveness of fencing, culverts, and other mitigation measures.</p> <p>D. Investigate effects of catastrophic wildfires on population biology.</p> <p>E. Research on biology of hatchlings and early juveniles.</p>
Mexican and narrow-headed garter snake	<p>A. Conduct studies to compare areas of apparent decline with apparently more stable populations, to investigate likely mechanisms of decline, and suggest management actions.</p> <p>B. Conduct detailed population study at one or more sites.</p>
Horned Lizard, Flat-tailed	<p>A. Determine effects of roads, off-road driving, and agricultural pesticides on abundance, dispersal, and habitat. Use results to provide management recommendations to eliminate or mitigate negative impacts.</p>
Herps General	<p>A. Query existing museum records and other documented sources, and use that information as the basis for an interactive, statewide database for herpetofauna distributions/status throughout Arizona. This should ultimately lead to a status database of definitive species distribution patterns for Arizona herpetofauna that includes all Arizona herps.</p>

Wildlife Elements	Grant Proposal Objectives
<u>Amphibians</u>	
Salamander, Sonora Tiger	<p>A. Field surveys (using radiotelemetry and other mark-release-recapture techniques) to determine (a) dispersal distances, movement corridors, seasonality, and frequency; and (b) hibernation/estivation site preferences and distances from water bodies, of metamorphosed Sonoran tiger salamander in the San Rafael Valley and surrounding mountains.</p> <p>B. Develop a Population Viability Analysis (PVA) or Population Viability Habitat Analysis (PVHA), using available demographic and dispersal information, to estimate the likelihood of extinction, assess relative threats, compare alternative management strategies, and make management recommendations.</p>

Frogs, ranid (native)	<p>A. Design and/or implement habitat enhancements to increase habitat suitability, including removal of exotic predators, increasing permanency of aquatic habitats, and protecting important habitats from recreational pressures and other land management practices at historical and/or current sites of occurrence.</p> <p>B. Develop and distribute public outreach activities and materials stressing the impacts to native amphibians from nonnative predators, disease, pollution and other mortality causes.</p> <p>C. Design and implement research to address specific objectives outlined in recovery plans, conservation and reestablishment proposals.</p> <p>D. Investigate mechanisms by which disease (chytridiomycosis, rana viruses) contributes to species decline.</p> <p>E. Conduct genetic analyses of northern leopard frogs throughout northern Arizona to determine relationships to other northern leopard frog populations, and to identify possible introduced populations.</p>
Bullfrog	<p>A. Research, develop, and field-test methods to effectively eradicate, suppress or restrict movements of bullfrogs.</p>
Frog, Leopard (Rio Grande)	<p>A. Research, develop, and field-test methods to effectively eradicate, suppress or restrict movements of Rio Grande leopard frogs to promote conservation of native species of leopard frogs.</p>

Wildlife Elements	Grant Proposal Objectives
<u>Fish</u>	
Pupfish, Desert	<p>A. Design and/or implement habitat enhancement and restoration activities at extant sites or at sites upon approved by AGFD for reintroduction.</p>
Topminnow, Sonoran (includes Gila and Yaqui subspecies)	<p>A. Design and/or implement habitat enhancement and restoration activities at AGFD-approved sites.</p>
Chub, Roundtail/headwater; Sucker, Flannelmouth/Little Colorado River; Sucker, Bluehead/Zuni	<p>A. Design and/or implement habitat enhancements and restoration activities at extant sites or at sites approved by AGFD for reintroduction pursuant to the Three Species Rangewide Conservation Agreement and the State Conservation Agreement and Strategy for Six Native Fish Species.</p>

Wildlife Elements	Grant Proposal Objectives
<u>Crustaceans and Mollusks</u>	
Miscellaneous	<p>A. Field surveys and literature search to determine historical and present occurrence, population status and trends, and management needs of one or more of the following elements: Arizona cave amphipod, California floater, Gila tryonia.</p> <p>B. Research on how one or more of the following elements respond to specific land management practices, and on their population genetics, taxonomic validity, and habitat requirements: Arizona cave amphipod or California floater.</p>
Crayfish	<p>A. Investigate effects of crayfish and crayfish removal on lotic or lentic aquatic communities (invertebrates, fishes, amphibians, reptiles, etc.).</p> <p>Research, develop, and field-test methods to effectively eradicate, suppress or restrict movements of crayfish.</p>

Community/Other Elements	Grant Proposal Objectives
<u>Habitat Types¹</u>	
Great Basin and Plains Grassland and Semidesert Grassland	<p>A. Develop strategies for conservation of Great Basin and Plains Grassland (142.1) and Semidesert Grassland (143.1) to offset habitat and wildlife population fragmentation.</p> <p>B. Investigate impacts of the wildfires on habitats that were occupied by species listed by AGFD as <i>Wildlife of Special Concern in Arizona</i> and CWCS priority species (Wildlife of Greatest Conservation Need – Tier 1 and 2).; assess post-fire population status of such species; and provide fire-impact mitigation measure recommendations for such species and the habitats they occupy post-fire or occupied pre-fire.</p>
Sonoran Riparian Deciduous Forest and Woodlands, Cottonwood Willow Series	<p>A. Develop “best management practices” for riparian woodlands and their associated waters. Develop and implement integrated management plans and adaptive management processes for these waters and woodlands, to include recovery of degraded rivers and streams. Research the physical, chemical, seasonal and “other” parameters that contribute significantly to the health/restoration of this community.</p>

¹The parenthetical numbers below are references to: Brown, D.E., C.H. Lowe, and C.P. Puse. 1980. A digitized classification system for the biotic communities of North America, with community (series) and association examples for the Southwest. *Journal of the Arizona-Nevada Academy of Science* 14 (Suppl. 1):1-16.

<i>Other</i>	Grant Proposal Objectives
Non-native invasive species (e.g. Bull frogs and crayfish)	A. Research habitat selection criteria and maximum range movements to determine adequate buffer distances from at-risk native fish, reptile, and amphibian populations. Test feasibility and methods of population control.
Significant Caves	A. Develop site-specific management plans for caves with significant crustacean, mollusk, bat, and/or other wildlife values. B. Implement habitat enhancement, renovation, and restoration activities for caves with significant crustacean, mollusk, bat, and/or other wildlife values. Examples: gating to control access; reinforcing weathering zones.
Beaver	A. Reestablishment of riparian habitats using biological mechanisms.

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Document Sensitive Elements List for 2006.20060606.doc

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Appendix C: : Special Conditions (Examples)

Special conditions are additional conditions included in Attachment A of the Participant Grant-in-Aid Agreement. Any special condition shown on Attachment A is part of the Agreement and is a binding condition. The following are examples of special conditions, which depending on the type of project, may apply to the funded project:

- All valid special permits must be acquired and maintained by the Participant. All persons working on this project must meet the same requirement.
- Participant must initiate technical coordination with the Department's Heritage Data Management System (HDMS) regarding locality-specific information on sensitive species.
- The project must comply with and receive clearance from the State Historic Preservation Officer (SHPO) prior to the release of funds.
- Interpretive topics must focus primarily on wildlife and its habitat.
- All materials produced must give credit to the Arizona Game and Fish Department's Heritage Fund.
- The Participant must work closely with the Arizona Game and Fish Department Education Branch staff, who will review the curriculum materials for content accuracy.
- The draft report shall be submitted to the Department for review for completeness and accuracy at least sixty (60) days prior to Agreement closing date.
- The Participant shall submit seven copies (six bound and one unbound) and one computer word-processing file of the final report to the Department's Heritage Grant Coordinator.
- The Participant shall notify the Department's Heritage Grant Coordinator of any equipment purchased with grant dollars, with a unit value greater than \$500, at the time of purchase. The equipment shall be used in accordance with Part II, D of the Participant-in-Aid Agreement.
- The Participant will provide the Department with copies of all articles published about the project in the newspaper or other media.
- The Participant will provide the Department with copies of all articles published about the project in professional journals and technical literature. The Participant will acknowledge the Arizona Game and Fish Department Heritage Fund in all articles about the project published in professional journals and technical literature.

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Appendix D: : Frequently Asked Questions

Q: Can older versions of the application manual and forms be used for this grant cycle? A: No, the Heritage grant application manual, application forms, and grant prioritization process manual have been revised. The current version of the application manual is *Arizona Game and Fish Department, Heritage Grant Application Manual June 2005*. Do not use previous versions of the grant application manual or application forms.

Q: When is the application deadline time and date? A: One original and two copies of the application must be received by the Heritage Grant Coordinator no later than 5:00 p.m. the last working day of November.

Q: Are all mandatory forms and information required by the deadline? A: Yes, to be accepted for review and evaluation the application must be received at the Heritage Grant Coordinator's office on or before the deadline and must include all mandatory forms and information.

Q: Can I apply for funding in more than one subprogram fund in a given year, e.g., apply for funding for an IIAPM project and funding for an Urban Wildlife project? A: Yes, as long as the applications are not for the same project. Each application must identify the specific subprogram fund that applies. Requested funding must be specific for each project.

Q: Does the applicant have to be located in Arizona to qualify as an eligible public? A: Government agencies represented in Arizona are eligible publics, including federal agencies, tribes, Arizona state, county, and local government agencies, commission, and corporations. The project should be located in Arizona or involve research in which the wildlife or its habitat is located in Arizona.

Q: What is the difference between match and donation? A: Match dollars are funds that the applicant has available and committed to the project. Donation represents other support such as volunteer labor and donated or loaned equipment for the purpose of project implementation and development. Potential match or donation is not allowed as a basis of match/donation funding. The applicant must show proof of secured and dedicated match and/or donation support in the application. Augmented support is encouraged and is a scored item in the grant prioritization process.

Q: Can State Parks Heritage funding be used as match for a Department Heritage project? A: If the State Parks Heritage funding has already been awarded to the applicant and there is no conflict regarding eligible uses for which the funding has been awarded, the funding can be used as match. The Department project for which Game and Fish Heritage funding is sought must have a wildlife- or wildlife habitat-related focus.

Q: Do charter schools count as eligible publics? A: Schools that are supported by public revenue in the state of Arizona and are part of the Arizona public education system are eligible publics.

Q: Do I need an Arizona Game and Fish Department Scientific Collecting Permit if I am working for the applicant? A: All persons conducting field work on Heritage-funded projects involving the sampling, taking, handling, capturing and containing, transporting, or disturbing through field activity, of any Arizona wildlife must either have a valid Department Scientific Collecting Permit or a valid hunting and/or fishing license. The terms of allowable activities, including bag limits and disposition are covered

by the permit or license. Contact the Scientific Collecting Permit Administrator for specific information (602-789-3652 or e-mail, scpermits@gf.state.az.us).

Q: Is SHPO certification required if the applicant is not a state agency? A: Yes, the Department shall not release grant funds until certification is received from the State Historic Preservation Officer in accordance with A.R.S. §§ 41-861 through 41-864, the State Preservation Act, which mandates that all state agencies consider the potential of activities or projects to impact significant cultural resources. (Commission Rule R12-4-710).

Q: Can I apply for a Heritage Environmental Education or Schoolyard Habitat grant if I already have a grant from the AACEE (Arizona Advisory Council for Environmental Education)? A: Yes, AACEE grant awards may be used as a match for a Heritage Environmental Education or a Schoolyard Habitat grant. The proposed project for which Arizona Game and Fish Heritage funding is being sought must have a wildlife- or wildlife habitat-related focus.

Q: What will I need to do to fulfill the “Term of Public Use” obligation after the project closes? A: The DEPARTMENT will send compliance forms requesting information on the project each year until the end of the Term of Public Use. In addition, on-site inspections may be conducted periodically at the discretion of the DEPARTMENT.

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Appendix E: **Annual eligible projects lists, sensitive elements list.**

- o Public Access (eligible projects list)**
- o Environmental Education and Schoolyard Habitat (eligible projects list)**
- o Urban Wildlife and Urban Wildlife Habitat (eligible projects list)**
- o IIAPM -- Identification, Inventory, Acquisition, Protection and Management (sensitive elements list)**

[Information on following pages applies for grant applications submitted in 2006.]