



Glacier National Park Future Project Portfolio

Wish List for Private Philanthropy



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Glacier National Park Fund supports the preservation of the outstanding natural beauty and cultural heritage of Glacier National Park for the use and enjoyment of present and future generations by fostering public awareness and encouraging private philanthropy.

The Glacier National Park Fund is the official fund-raising partner of Glacier National Park and works in partnership with the National Park Service on a shared vision of quality visitor experiences and preservation for future visitors. The establishment of Glacier was only the

first step in protecting this beautiful national treasure, which enhances our personal lives while generating economic benefit to the region and state. As we celebrate the past 100 years, we must inspire this generation and those that follow to commit to preserving this special gift.

Each year Glacier National Park Fund chooses projects to endorse from the Park's priority list with the consideration of the interests of the trustees and our donors, the Glacier National Park Fund family. This list is shared with you not only as a list that includes current projects we

are actively working on that require ongoing funding, but one that maps out a course for future philanthropy and projects that Glacier National Park hopes will capture attention for future consideration.

Glacier National Park's mystical magic has captured the heart and very being of people from around the world. It provides a special spirit of discovery, excitement, peacefulness and balance that pulls people back to it each year. So many of us have a deep emotional tie to Glacier and we call upon your skills, talents and resources to prepare our beloved Park for the next century.

As the 100 year anniversary of our Park draws near, the Glacier National Park Fund is working in four areas to help Glacier National Park prepare for the next 100 years – preserve, research, discover and celebrate. Help us achieve the Park Service's vision of excellence for the next 100 years by supporting the Centennial Campaign. With your stewardship and generosity, we can ensure that Glacier will be enjoyed just as it is today by future generations. The care of our park is too great of a challenge to manage without partnerships; without you.



Preserve Glacier



Visitors of all ages quickly fall in love with Glacier's spectacular scenery, wildlife, plants, trails and historic structures. We have an opportunity to make sure that those who come after – next year and the next hundred years – find similar reasons for forming their own love affair with the park. We must do our part to preserve this wonderful national treasure for future generations.

With its 700 miles of trails, Glacier is consistently recognized by backpacking and outdoor magazines

as one of the top hiking parks in the nation. Glacier's trails have been a favorite beneficiary of previous grant support and the Glacier National Park Fund is very dedicated to keeping the trails maintained as a vital part of our visitors' experience.

Glacier National Park is home to one of the most intriguing nurseries anywhere. The native plant nursery staff, restoration crews, and volunteers work to revegetate eroded areas using native plant stock. This is not a small task, yet it

helps maintain Glacier's spectacular landscapes and preserve Glacier's biodiversity.

The Glacier National Park Fund strives to reach beyond the natural beauties of the park as well. Granite Park and Sperry chalets, the red "Jammer" buses and Going-to-the-Sun Road are all special memories for park enthusiasts. These features, along with other important national historic landmark structures, have decades of stories to tell. Protecting these century old treasures keeps

the human tradition of Glacier alive and well.

Preserving Glacier National Park for future generations to enjoy can only be accomplished by the partnerships that our many donors of the Glacier National Park Fund bring to the table.

Trails in Glacier



Glacier National Park has over 700 miles of trails. This provides a perfect opportunity for all levels of hikers to enjoy our one million acres. Unfortunately, harsh weather conditions and visitor use have a defining impact on this incredibly fragile environment and represent a tremendous challenge in keeping these trails safe and functional for a great visitor experience.

The Glacier National Park Fund has made trails one of its top priorities. We feel strongly that we must work

with Park management to keep trails open and safe for the two million annual visitors. Each year specific trail projects are funded by the Glacier National Park Fund but the long term goal is to create a trails endowment program.

Goal: \$100,000 annually

Restoration of Native Plants



Glacier has long recognized the importance of restoring native vegetation lost through trampling, eradication of weeds or removal of old facilities. Both aesthetically and ecologically, this makes sense. A growing list of projects has been successfully completed that has involved greenhouses in local schools, thousands of volunteers from elementary students to seniors, and the park nursery. From campgrounds to hiker destinations, more areas await restoration. The perpetuation of this wonderful educational and community program is contingent upon additional funding.

**Goal: an endowment producing
\$75,000 or projects from
\$10,000 to \$75,000**

Preservation of Historic Structures



Glacier's colorful past is captured in some of the remaining historic buildings that the park built or acquired. Although the hotels are probably the best known of the historic buildings; old patrol cabins, lookouts, homestead buildings and summer homes each have interesting stories to tell about the park and its development. Restoration, or even stabilization funding, has become increasingly scarce; and sadly the park has had to abandon or tear down many of these structures. Help us preserve this part of the Park's history for future generations to enjoy and learn from.

Goal: Projects range from \$50,000 to \$100,000

Private Land Preservation and Stewardship in the Park



Approximately 400 acres of privately owned lands lie within Glacier National Park. Glacier often has the opportunity to work cooperatively with private landowners to protect and care for lands in and around the park. Land exchanges, conservation easements, and technical assistance are methods of innovative land preservation. Land exchanges and conservation easements allow private lands to be preserved while allowing for landowner occupancy. The park recognizes that landowners are a cultural resource with the

potential to preserve historic buildings and natural resources on their private lands. Technical assistance from park staff provides resource preservation assistance to land-owners that would allow for cooperative land stewardship.

Occasionally, a piece of private property is available for purchase on a willing seller/ willing buyer basis. The park's decision to purchase the property is dependent on the availability of nationwide National Park Service funds. Federal land

purchases often take years for completion because previously identified priority purchases consume annual funds. Assistance from private sector organizations such as The Nature Conservancy and the Trust for Public Lands also undergo a prioritization process and they have difficulty raising funds under a limited time frame. Private land donations to the National Park Service undergo an inspection process that also taps available lands funds, causing the process to take several months to complete.

Supporting this project would allow the park to conduct real estate transactions in a timely and efficient manner. Additionally, support would allow the park to work in cooperation with private landowners to explore innovative solutions for land preservation. Glacier National Park Fund's role would be to facilitate voluntary transfers of private lands within Glacier National Park to the park and to participate in the funding of worthy projects.

Goal: Depending on project or property

Museum Collection Development Project



Glacier's museum collection consists of approximately 597,000 items, including archival documents and photographs, historical and archeological artifacts and natural history specimens. One of the primary objectives of the park's museum program is to collect artifacts and specimens, either as required by federal law or as identified in the Park's Scope of Collection Statement. The park acquires these objects through ongoing field research activities, transfers from other parks and government agencies, gifts from individuals and purchases from antique shops, live and online auctions and individual dealers.

Goal: \$100,000

The opportunities to purchase appropriate items often come without any advance notice. There is often a time limit for a purchase, especially with online auctions and individual dealers. Having the funds available to react to an opportunity to acquire a significant object quickly and decisively would provide the Park's museum staff with great flexibility in dealing with the seller.



Research Glacier



Imagine a million acre classroom where studies happen daily on wildlife, plants, and the deep connections between humans and the landscape. With over 70 species of mammals and 260 varieties of birds, Glacier National Park as part of the largest intact ecosystem in the northwest offers excellent opportunities for collecting scientific information on such animals as loons, martens, bighorn sheep, wolverines, and grizzly bears. Such studies are critical to help park managers understand the changing dynamics

of many of the park's natural features, meet the challenge posed by climate change, and evaluate human impacts in many areas of the park. This, in turn, leads to informed decision-making in reaching the goal of preserving these resources for future generations.

For example, research studies have shown how Glacier's bighorn sheep utilize their range and which populations are at risk from external hunting and loss of habitat. Wolverine studies have

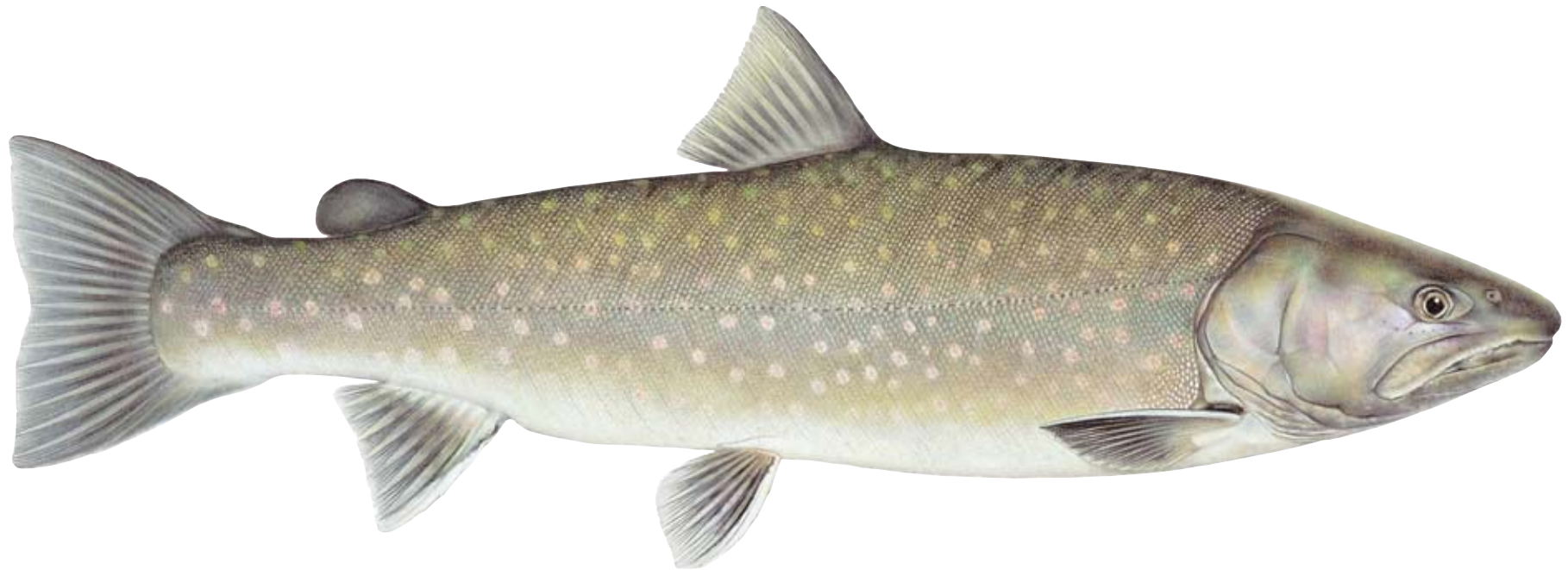
helped managers understand habitat requirements, impacts of recreation, and den security needs. Research has also helped managers understand the distribution and vulnerability of loons, pika, goats, and Clark's nutcrackers – which may all be affected by global climate change.

Long standing relationships between native people and Glacier National Park could be understood by more people if oral histories, historical records research, and other sensitive

research programs were developed to document the history of Native Americans who live in the vicinity of the park. Careful collaboration with the tribes will assure that the findings benefit all.

Managers face tough decisions every day in protecting Glacier for future generations. Your support for research activities in Glacier National Park will help us take care of those resources and manage a fulfilling visitor experience for all.

Protecting Threatened Species - Bull Trout



Bull trout face an uncertain future in Glacier and the northwest. Listed as Threatened under the Endangered Species Act, their decline is attributed to loss and degradation of habitat and the competition from introduced fish, particularly the lake trout. In Glacier, lake trout have proven to be the most obvious threat. One of the last strongholds, Quartz Lake, where the Glacier National Park Fund helped fund a barrier below the outlet, now appears to be compromised as several lake trout

were caught by anglers, although they had never shown up in any previous inventories. The Park and its partners at Montana State University, the U.S.G.S., and the U.S. Fish and Wildlife Service want to build on the life history research funded by the Glacier National Park Fund to experiment with methods of control. The goal is that with minimal action, we can suppress the lake trout population to a low level and protect the native bull trout/native west slope fishery. We are seeking research funding to expand

the current bull trout research to enable the park to make critical decisions about how to proceed with management actions.

**Goal: \$210,000
(\$70,000/year for 3 years)**

Forest Carnivores



Following the very successful Wolverine Ecology Project completed in 2006, additional work is needed on wolverine and other forest carnivores such as the fisher and lynx. For wolverine, and possibly other forest carnivores, the park is interested in testing noninvasive hair snaring for trend monitoring. This would enable managers to determine population trend and distribution without trapping and collaring. We are also interested in continuing investigations of the abundance and distribution of fisher and lynx, including winter track surveys.

Goal: \$120,000 for two years

Grizzly Bear Projects



Glacier National Park has the highest density of grizzly bears of any location in the lower 48 states. It also has high summer visitation, exceeding two million in some years. High visitation and lots of bears mean high potential for conflict because grizzly bears can become highly habituated to human presence. Climate change may further stress grizzly and other wildlife populations.

The following projects are proposed:

- Assess management techniques for habituated and conditioned bears, including enforcement, public and employee education, hazing, and aversive conditioning.
- Study grizzly bear behavior and habitat use in response to human use of Glacier National Park, particularly in the Many Glacier Valley, and compare it to bear behavior and activity patterns outside of the park.

- Study the impact of high and low huckleberry crops on bear interaction with humans.
- Study how forest fires influence grizzly bear habitat use.
- Determine connectivity corridors for bears, ungulates, and other carnivores.
- Set up a \$1,000,000 endowment fund.
- Expand the study to use rub trees to determine trend monitoring.

Goal: \$150,000 for three years

Biological Inventories and Assessments



Plant and animal life not only makes a trip to Glacier memorable, but they are also an indication of ecosystem health. Glacier is lacking basic information about the distribution and abundance of many species. Some wildlife are nocturnal, others secretive, while still others live in isolated areas that are difficult to access. While certain targeted species such as harlequin ducks, raptors, bighorn sheep, and loons have had some study work completed; comprehensive assessments of wildlife and range

conditions in drainages, such as Many Glacier or the upper McDonald Valley, would provide more valuable information about their overall condition. This information will enable park managers to better target and evaluate management actions designed to protect these species and provide a wealth of interpretive and educational material. We are also seeking funding to conduct an All Taxa Biotic Inventory workshop, which would lead to other inventories of less common types of species.

Goal: \$500,000 for biological inventories

Building Stewardship through Citizen Science



Imagine paddling across a tranquil mountain lake listening for the haunting call of a loon, scanning the park's towering cliffs for a glimpse of a mountain goat, or investigating a rocky talus slope for signs of the tiny and charismatic pika. What sounds like the adventure of a lifetime is so much more when you are a Citizen Scientist! Citizen science projects utilize trained volunteers to collect scientific information that would otherwise be unavailable due to lack of personnel or funding. For the citizen scientists, the reward is a

sense of stewardship and a greater understanding and awareness of the park's resource issues. The funds will support sustaining ongoing projects and building new citizen science programs through the Crown of the Continent Research Learning Center. The Center is dedicated to increasing the effectiveness of research and science results in Glacier National Park through facilitating use of volunteers for scientific inquiry and supporting science-informed decision making.

Goal: \$1,000,000 endowment for \$50,000 annually



Discover Glacier



Imagine the eyes of an elementary student when the teacher says that the next science unit will be taught, not in the classroom, but on the shores of Lake McDonald! One of the major initiatives of the Glacier National Park Fund has been to develop the means to make that excitement (and opportunity to learn) available to all school children in northwest Montana. So far, the program has been successful in bringing lesson plans and educational goals of the park and the local school districts

in alignment, while developing strong partnerships with schools and neighboring groups in the area, dedicated to improving educational opportunities for all. In addition, discussions have begun with tribal representatives to accomplish the same goals for reservation students living near the park.

Science comes alive when students, teachers, and park rangers interact with researchers and the environments they are studying. Hands-on learning cannot be

matched! Our vision is to continue these learning opportunities by providing the best staff, resources, and improved facilities to make the most of the magnificent educational environment in Glacier National Park.

Currently, park staff is working closely with outside researchers to provide educational opportunities beyond local school systems. Colleges, universities, park managers, and the public at large will benefit from a strong, focused

educational program within the park. A park "education strategy" is being developed to enable learners at all levels to benefit from a coordinated effort within the park and between the park and its many educational partners. Learning on the World Wide Web, facilitated through support by the Glacier National Park Fund, is already expanding educational horizons.

To support a program with such compelling outcomes, the park will

need ongoing support, especially in times when urgent funding needs seem to be everywhere.

Ongoing Support for the Curriculum-based Education Programs



Students who participate in Glacier National Park educational programs see parks as places for recreation, enjoyment, and learning. The National Park Service provides educational programs to foster an understanding and appreciation of park values, resources, and stewardship. To meet the needs of formal learners, National Park Service educators work with teachers to develop programs that blend information about park resources with the curriculum goals of the school. This project will fund an

Education Specialist to develop and implement a comprehensive program for groups with formal educational objectives as well as Education Rangers to deliver programs to students. Efforts will include collaborative curriculum development, teacher workshops, on-site education programs for visiting school groups, support for partners providing education programs, and development of educational materials and on-line resources for students and teachers.

Goal: \$1,000,000 endowment and \$50,000 annually

Going to Glacier: Transporting Kids to the Park



Glacier is not only an exciting vacation destination, but also an outdoor classroom that enhances learning. Teachers see the value in bringing youth to the park for educational programs, but many schools can't afford field trips. Meanwhile, kids are spending more and more time indoors. A declining interest in nature could mean a lack of stewardship for places like Glacier, prompting the park to launch a "no child left inside" program to make children more comfortable with nature and encourage long-term

support of wild places. This project will address one of the biggest barriers to field trips: the cost of transportation. This project will fund school bus subsidies, public transportation, and perhaps even use of the new park shuttle buses when they are not needed for park visitors. These resources will be made available to local schools and community groups who sign up for an educational field trip to Glacier National Park.

Goal: \$75,000 per year

Keeping Parks Relevant to 21st Century Audiences



To ensure that parks remain relevant in the future, they must use new technologies for engaging new audiences. An example of recent success is Glacier National Park's eHikes on the park's web site, featuring audio and video clips, 360 degree images, and exciting maps and graphics that provide an on-line "hiking experience" on popular Glacier trails. This project will provide funds to support a Media Specialist and continued innovation. Funds would allow the park to use new technologies to develop learning experiences that make parks accessible, fun, and educational. This project will emphasize interactive technology that effectively reaches broad and diverse audiences. Projects will include an on-line Junior Ranger program to engage children and families in exciting park-based activities. The funds will also support development of an education portal that provides information on park education programs and services, including information and activities for students, distance learning opportunities and resources for teachers.

Goal: \$90,000 per year

Reconnecting Children and Nature



Research clearly documents that children (and adults) are becoming increasingly disconnected with nature and are not having the types of experiences that result in care for the natural world and environment. Through this Reconnecting Children and Nature program, participants will gain the skills, tools, and confidence for connecting with nature (as found in Glacier, surrounding public lands and any other outdoor environments) in a very personal and individual manner. The experiences

this program provides will be the type of transformative events that many of us were fortunate enough to go through as young people. Participants will learn how to experience nature in a safe, appropriate, and experiential manner which has no impact on the environment. Using Glacier National Park and other public, private, and tribal lands as resources, we will develop a program and the supporting materials which provide the audience with an understanding of the benefits of getting children

and families outdoors; locations where they can safely get kids outside; and how they can facilitate unstructured play, activities, and exploration in diverse natural settings resulting in meaningful, memorable, and moving experiences for the children and their adult guides.

Goal: \$25,000 per year

Educate the World about Glacier's Science and Research



Watch as a glacier recedes before your eyes, listen to a bird's call and discover how their presence maintains the fragile balance of Glacier's ecosystem, and do it all without ever leaving your living room! All of this and so much more is possible through exploring an interactive, virtual Research Learning Center whose purpose is to make park science accessible to everyone. This project will fund a web portal for both park interpretive staff and a worldwide audience to connect not only to Glacier's tremendous

resources, but to the current research being conducted in the park, giving the public an unprecedented opportunity to access current park scientists and their exciting discoveries. This project supports the mission of the Crown of the Continent Research Learning Center, dedicated to increasing the communication of research and science results and providing enhanced access to research knowledge.

Goal: \$50,000 per year for 3 years

Training the Next Generation of Resource Professionals



Proper management of our nation's natural and cultural treasures requires informed and experienced resource professionals. This project will fund a fellowship program that will contribute to that need by promoting student research in high priority natural and cultural resource topics. Applications will be judged on scientific merit, technical feasibility, and relevance of the proposed work to park managers. By encouraging the participation of both undergraduate and graduate students, this fellowship will facilitate

greater understanding of critical resource issues as well as fostering the next generation of resource professionals. This project supports the mission of the Crown of the Continent Research Learning Center, dedicated to facilitating use of parks for scientific inquiry and providing access to research knowledge.

Goal: \$225,000 endowment for \$15,000 annually



Those Who Came Before:

A Book on Native American Uses of Glacier



For thousands of years, Native Americans have been an important presence in Glacier, using the land for hunting, gathering and spiritual purposes. Today, the Blackfeet, Salish, and Kootenai tribal elders and others hold cultural knowledge about their strong ties to this land, past and present. The park's Native American history has attracted scholarly attention, with chapters appearing in books by noted historians. However, these threads of cultural knowledge and writings have yet to be woven

together with the threads of time and space. The history of all the Native American groups associated with Glacier has not been compiled. This project is a companion to the park's Administrative History that would describe Native American use of this area from post ice age to present. The story will be based on the archaeological as well as the oral record of all tribes and bands of Native Americans who have interacted with Glacier through time.

Goal: \$50,000 – This project has already been funded