



Department of Defense Legacy Resource Management Program

Project 11-086

National Public Lands Day 2011

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**DEPARTMENT OF DEFENSE
LEGACY RESOURCE MANAGEMENT PROGRAM (11-086)**

National Public Lands Day 2011

The Department of Defense provides funds to the National Environmental Education Foundation (NEEF) for National Public Lands Day (NPLD) projects on military lands open to the public for recreation. Since 1999, National Public Lands Day has received \$1,872,395.67 through the Legacy Resource Management Program (Legacy). In 2011, National Public Lands Day received a total of \$202,217 from Legacy. Of this amount, \$166,791 was allocated to sites. Also distributed to sites was \$20,818.07 in carryover funding from 2010. In 2011, a total \$187,609.07 was distributed to installations for materials and supplies. The Legacy funds were used to enhance Department of Defense (DoD) lands through various cultural and natural resource improvement activities. Participating in NPLD provides the natural and cultural resources managers the means and labor to complete small installation-specific projects that while beneficial to the installations, may not otherwise get done due to budget or manpower limitations. These projects improve habitat and biodiversity for common and rare species alike, which may help reduce the need for intense management and constraints to installation operations.

The National Environmental Education Foundation received 43 applications for Legacy awards of up to \$6,500 each for 2011 NPLD projects. In September, NEEF notified the 41 sites they were selected to receive Legacy Resource Management Program awards. NEEF awarded Legacy funds to sites by sending a check directly to the installation or reimbursing vendors for all items purchased that pertained to the awarded project. The branches awarded Legacy Resource Management Program funding consisted of 10 Air Force, 15 Army, 9 Army/Air National Guard, 1 Marine Corps and 6 Navy sites.

On September 24, 2011, 180,000 volunteers participated at over 2,060 NPLD sites to improve parks and other public lands in all 50 states, the District of Columbia, Puerto Rico and many U.S. territories. NPLD volunteers contributed an estimated \$17 million in public land improvements by removing 500 tons of trash; collecting 23,000 pounds of invasive plants; building and maintaining 1,500 miles of trails; and planting 100,000 trees, shrubs and other native plants. Many NPLD events included an environmental education component to teach volunteers about land stewardship.

In 2011, NPLD volunteers focused on promoting the health benefits of outdoor recreation. After volunteering, site managers encouraged participants to explore and enjoy America's natural wonders, by taking a hike, a swim or a bike ride and getting healthy in America's backyard.

Approximately 2,100 volunteers took part in various natural and cultural resource improvement activities offered at the 41 DoD Legacy Resource Management Program sites. Many Legacy sites organized work projects to improve habitat for pollinator species including bees, birds, bats and insects. Other natural resource activities performed by volunteers included removing trash and invasive plants; restoring rivers and streams; enhancing wetlands, dune and coastal habitats; constructing trails and bridges; and planting native trees, shrubs, wildflowers and other vegetation.

The cultural resource activities included repairing historic structures and monuments as well as installing interpretive and educational signage. The cultural resource projects volunteers engaged in this year involved, restoring the Halealoha Haleamau Burial Platform at Joint Base Pearl Harbor-Hickham in Hawai'i and building a trail that increases access to Civil War site at Fort Leavenworth in Kansas.

Legacy Sites in 2011

<u>United States Air Force</u>	<u>Amount Awarded</u>
Eglin Air Force Base Florida	\$1,884.55
Fairchild Air Force Base Washington	\$6,500.00
Fort Sam Houston Quadrangle Texas	\$5,238.43
Fort Sam Houston, Camp Bullis Training Site Texas	\$5,493.15
Hill Air Force Base, Utah	\$6,004.00
Lackland Air Force Base Texas	\$584.86
Malmstrom Air Force Base Montana	\$6,500.00
Scott Air Force Base Illinois	\$3,000.00
Shaw Air Force Base/Poinsett Electronic Combat Range South Carolina	\$6,500.00
Tyndall Air Force Base Florida	\$4,431.90
<u>United States Army</u>	
Aberdeen Proving Ground Maryland	\$6,412.51
Fort A.P. Hill Virginia	\$1,903.40
Fort Belvoir Virginia	\$1,293.67
Fort Bliss Texas	\$614.59
Fort Bragg North Carolina	\$845.43
Fort Leavenworth Kansas	\$6,500.00
Fort Lee Virginia	\$1,658.00
Fort Leonard Wood Missouri	\$1,246.45
Fort Riley Kansas	\$1,708.88
Fort Stewart Georgia	\$2,889.70
Joint Base Charleston South Carolina	\$4,335.00
Joint Base Lewis McChord Washington	\$6,411.17
Ka`ala/Schofield Barracks West Range Hawaii	\$4,540.91
Redstone Arsenal Alabama	\$5,321.00
Umatilla Chemical Depot Oregon	\$6,500.00

<u>United States Army/Air National Guard</u>	<u>Amount Awarded</u>
Biak Training Center Oregon	\$2,869.64
Camp Dawson Army Training Site West Virginia	\$6,251.49
Camp McCain Training Center Mississippi	\$5,349.68
Fort Custer Training Center Michigan	\$4,766.00
Fort Indiantown Gap Pennsylvania	\$6,500.00
Fort McClellan Training Center Alabama	\$2,905.00
Fort Pickett Maneuver Training Center Virginia	\$5,858.31
McCrary Training Center South Carolina	\$1769.37
Volunteer Training Site Catoosa Tennessee	\$847.36

United States Marine Corps

Marine Corps Air Ground Combat Center, 29 Palms California	\$5,576.70
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United States Navy

Joint Base Pearl Harbor-Hickam Hawaii	\$6,500.00
Naval Support Activity Monterey California	\$731.02
Naval Weapons Station Seal Beach California	\$6,499.30
Naval Weapons Station Seal Beach Detachment Fallbrook California	\$6,482.89
NIOC Sugar Grove West Virginia	\$6,473.50
Patuxent River Naval Air Station Maryland	\$6,500.00



United States Air Force

Eglin Air Force Base | Florida Natural Resource Project: Rocky Creek Tributary Restoration

Pollinator Project

Project Date: October 6-7, 2011

Project Summary: A group of 25 volunteers rehabilitated a stream by removing wooden poles from the water, installing Bahia sod over tire ruts and adding native vegetation and trees around the stream perimeter. Grass seed and mulch were distributed to stabilize exposed areas of the creek bank. The new vegetation planted provides food and habitat for many species, including pollinators.

The work projects took place in an area that contains a federally-protected fish, the Okaloosa darter. This small fish is critical in determining the health of watersheds draining from the Eglin reservation south into the Choctawhatchee Bay. Base personnel provided volunteers with details discussing how their efforts would enhance the stream and the endangered, threatened, or other native species using this aquatic ecosystem. All volunteers worked in teams which promoted camaraderie, team spirit and civic pride.

Contact: William Pizzolato, Soil Conservation Technician | (850) 883-1190

Fairchild Air Force Base | Washington Natural Resource Project: Tree Planting

Project Date: November 19, 2011

Project Summary: Twelve volunteers planted 22 trees that were over 10 feet tall, to provide shade and habitat for wildlife. The trees instantly improved the area's aesthetics and will provide a natural buffer against the wind that frequently occurs on base.

Participants thoroughly enjoyed the projects and one volunteer commented, "Helping plant trees at this year's National Public Lands Day event was a wonderful experience. Steve Selser (site manager) really brought everyone and everything together to get the full National Public Lands Day experience. I am really looking forward to see what he plans for next year's event."

Contact: Steve Selser, Natural and Cultural Resources Manager | (509) 247-8116



Fort Sam Houston Quadrangle | Texas

Natural Resource Project: Drought Tolerant Landscaping and Pollinator Garden Demonstration

Pollinator Project

Project Date: November 17-19, 2011

Project Summary: Volunteers from the local community gathered in the Fort Sam Houston Quadrangle to create a butterfly garden. Over 80 volunteers planted native vegetation and received hands-on environmental education. The group immediately saw the impact of their work as butterflies visited the garden within an hour of the wildflowers being planted. In addition to improving the pollinator habitat, this project will also benefit the local water table and demonstrate to future visitors, the importance of using native landscaping to prevent droughts.

Volunteers from this project included Girl Scouts, who personally selected some of the vegetation that was planted in the garden.

Contact: Bryan H. Hummel, Natural Resource Technician | (210) 388-2067

Fort Sam Houston, Camp Bullis Training Site | Texas

Natural Resource Project: Nature Trail Construction

Pollinator Project

Project Date: October 15, 2011

Project Summary: The Camp Bullis project was a great success and involved volunteers from the base and four individuals from the local community working to construct a multi-use nature trail. To create the recreation area, a trail was flagged through riparian woodlands and upland grasslands. Limbs cut to clear this route were turned into mulch. Volunteers later spread the mulch to create a trail path. Native wildflower seed was spread along the trail to benefit pollinators and other wildlife.

Additionally, the native seed planted will create rainwater gardens that will catch sediment and organic matter, irrigate pollinator gardens, slow erosion, filter runoff and increase aquifer recharge. These changes will have an enormously positive impact on the installation's hydrologic cycle.

Contact: Bryan H. Hummel, Natural Resources Technician | (210) 388-2067

Hill Air Force Base | Utah

Natural Resource Project: Pond Enhancement

Pollinator Project

Project Date: October-November 2011; Multiple Workdays

Project Summary: A variety of projects to enhance the area surrounding Pond 3 took place at Hill Air Force Base. Over multiple days in October and November, volunteers resurfaced a trail, developed a botanical garden, added over 20 trees, removed invasive plants, picked up litter and installed kiosks. The two kiosks discuss the ecology of the pond area as well as the wildlife and pollinators that live near the pond.

Also incorporated into the event was an Eagle Scout project, which involved building pollinator houses and boxes.

Contact: Jo Proctor, Wildlife/Habitat Biologist | (801) 777-4618

Lackland Air Force Base | Texas

Natural Resource Project: Stillman Park Enhancement

Project Date: October 15, 2011

Project Summary: At Stillman Park, Boy Scouts and Lackland Air Force Base civilians gathered to install eight tree identification signs and two bluebird houses. The group also improved fishing recreation spots by removing overgrown weeds and adding 150 feet of stream bank.

The group of approximately 30 volunteers was educated on how to identify different tree species and then installed identification plaques to the appropriate trees. Factors for successful nest box locations were also explained to and implemented by the group.

Contact: George Bauml, Natural Resources Manager Consultant | (210) 671-5337

Malmstrom Air Force Base | Minnesota

Natural Resource Project: Wetland and Riparian Restoration

Pollinator Project

Project Date: September 24, 2011

Project Summary: An enthusiastic group of 52 volunteers gathered to plant over 550 trees and 500 plants during a combined 250 hours of work at Malmstrom Air Force Base. The trees and vegetation were added along eroded wetland and riparian areas. The erosion had resulted from storm water damage and other off-base factors. This re-vegetation project complimented current restoration efforts while also enhancing wildlife habitat and riparian areas in ways that typical construction projects cannot.

Contact: Jason Gibbons, Chief, Conservation Program | (406) 731-6333



Scott Air Force Base | Illinois

Natural Resource Project: Wetland Trail Construction

Pollinator Project

Project Date: September 24, 2011

Project Summary: Approximately 30 participants engaged in four days of work projects to benefit the Scott Air Force Base community and wildlife habitat. During this time, volunteers removed invasive plants and added native vegetation, which included trees, shrubs and wildflowers attractive to pollinators. The group also added a new trail and signage with information about the wildlife and plant species in the local wetland. This trail gives the local community an additional place to take a stroll and just enjoy the area's abundance of natural resources.

Contact: Cindy Nolan, Conservation Manager | (618) 256-8237

Shaw Air Force Base/Poinsett Electronic Combat Range | South Carolina Natural Resource Project: Pond Restoration

Pollinator Project

Project Date: October 1, 2011

Project Summary: The six-acre Weeks Pond area was enhanced over a series of multiple workdays at Shaw Air Force Base. In the 1990s burnt ash and organic soil from a fire had flowed into the pond and lowered the pH to a level aquatic wildlife could not survive in. The 15 volunteers improved the pH by spreading lime along the water surface and removing debris from the pond. The water quality improvements will bolster fish and invertebrate populations and increase the food source's available to birds and other wildlife.

Volunteers were involved in a discussion on fresh water ecology and taught how to take water samples utilizing a water quality monitoring kit. The group also conducted bird and alligator surveys while projects took place.

Contact: David Zane Davis, Wildlife Biologist | (803) 895 5325

Tyndall Air Force Base | Florida Natural Resource Project: Nature Trail and Pollinator Garden Construction

Pollinator Project

Project Date: September-October 2011; Multiple Workdays

Project Summary: Over eight workdays, 40 volunteers transformed a native plant area on Tyndall Air Force Base. Projects were designed to attract pollinators and heighten awareness of Florida's native plant species. The group was responsible for clearing a trail, installing a pollinator garden, and identifying and labeling vegetation. Marking plants along the natural trail improved the educational opportunities available to hikers that travel through the trail's three different ecosystems.

Contact: Diane Bateman, Water Programs Manager | (850) 283-2731

United States Army



Aberdeen Proving Ground | Maryland Cultural and Natural Resource Project: Memorial/Pollinator Garden Installation

Pollinator Project

Project Date: October 22, 2011

Project Summary: To create a memorial/pollinator garden, 25 volunteers planted 210 native trees, shrubs and flowers. Educational information about creating pollinator gardens was provided during the service projects. The newly created garden will be maintained by members of the local chapter of Federally Employed Women. A unique stone memorial, dedicated to all women scientists working on base, was installed in the garden and benches were added to encourage people to linger.

Contact: Terri Kaltenbacher and Deidre DeRoia, Environmental Protection Specialists | (410) 278-3775

Fort A. P. Hill | Virginia Natural Resource Project: Nature Trail Renovation

Project Date: September 24, 2011

Project Summary: For NPLD, 12 participants extended the Beaverdam trail system. Volunteers engaged in three projects: re-establishing trail exit and entry points; cleaning interpretive signage; and repairing a footbridge. The group included students from Randolph Macon College that were provided with information regarding significant waypoints along the trail; habitat and species diversity; and land, forest and wildlife management principles

Contact: Tim Southard, Natural Resources Specialist | (804) 633-8745

Fort Belvoir | Virginia Cultural and Natural Resource Project: Trail Maintenance

Pollinator Project

Project Date: September 23-24, 2011

Project Summary: The 2011 NPLD projects at Fort Belvoir took place over two days and involved an estimated 30 individuals. The first day, participants removed invasive plants and picked up trash along the trails and shoreline. The second day, educational signage was installed, trails were brushed and along the Gunston Cove shoreline planting beds were made for vegetation. Volunteers later filled the planting beds with native plant species.

Projects benefitted both the natural habitat and base community. Removing invasive plants and adding native species broadened the native pollinator habitat. The additional four signs increased the potential for educating about the area's cultural and natural resources.

Contact: Wilamena Harback, Natural Resource Specialist, Outreach & Education Program Manager | (703) 805-3971

Fort Bliss | Texas Natural Resource Project: Trail and Site Enhancement

Project Date: September 24, 2011

Project Summary: Thirty-four individuals constructed one mile of nature trail and removed 1,000 pounds of litter from an undeveloped and unmaintained storm water wetland area, which is habitat for migratory birds. A representative from the local Audubon Society gave a talk about the significance of the migratory birds using the wetland ecosystem and the importance of habitat preservation.

Contact: Kelly Blough, Storm Water Compliance Manager | (915) 568-0794



Fort Bragg | North Carolina **Natural Resource Project: Pollinator Garden Maintenance**

Pollinator Project

Project Date: September 2011; Multiple Workdays

Project Summary: Over three separate work days, a total of 33 volunteers at Fort Bragg enhanced the Grove of Honor pollinator garden. Three flower beds were reworked into pollinator gardens and filled with a variety of perennial plants. Puddling stations were also installed in two of the beds.

Students from a local middle school were present during two of the three planting projects and learned about the importance of pollinators. After the talk, the students' teacher remarked, "The pollinator garden provides opportunities for students to develop an awareness of the natural world. We are excited to extend learning in an outdoor classroom."

Contact: Julia Love, Urban Forester | (910) 494-0180

Fort Leavenworth | Kansas **Cultural and Natural Resource Project: Historic Trail Restoration**

Project Date: October 2011; Multiple Workdays

Project Summary: Over multiple weekends, over 60 volunteers from the local community enhanced a multi-use trail on Fort Leavenworth. The trail was widened, making it safer for people to run and walk along. The path was strategically placed to allow hikers to connect better with the woodlands. In the future, the widened trail will have informational signs added, which explain the area's cultural and natural resources.

Contact: Matthew Nowak, Natural Resources Specialist | (913) 684-8979

Fort Lee | Virginia **Cultural and Natural Resource Project: Trail Restoration**

Project Date: October 29, 2011

Project Summary: In October, base personnel and volunteers installed interpretive signage and restored a trail, which opened up a previously closed area of the post. Accomplishments from this project provided Fort Lee with a location to educate visitors about installation's freshwater swamp and mature forest. The interpretive signage added also showcases a World War I training site. A total of 58 individuals worked to complete the projects.

Contact: Dana Bradshaw, Natural Resources Program Manager | (804) 734-5080

Fort Leonard Wood | Missouri **Cultural and Natural Resource Project: Pollinator Garden Enhancement**

Pollinator Project

Project Date: September- October 2011; Multiple Workdays

Project Summary: The Fort Leonard Wood project was to enhance pollinator garden. Participants were from The Dru Pippin Youth Center, the 4-H Operation Military Kids and Meramec Hills Master Naturalists. Projects involved filling a vegetable garden with cool weather plants and adding 47 native plants to two pollinator gardens. As a result of this event, the youth center later incorporated the garden project into their "Garden and Grow" group activities.

All 40 people involved took great pride in their accomplishments and eagerly await the garden's produce. The Dru Pippin Youth Center director commented, "With the education provided through the Master Naturalists, we will certainly turn to our Missouri native plants first and water, water, water, until they are established. It's amazing to watch our youth work, explore, and finally see the end product. These experiences will be reflected not only at the Center but in our own homes and lives."

Contact: Amy M. Crews, Environmental Engineer | (573) 596-0882

Fort Riley | Kansas **Natural Resource Project: Nature Trail Improvement**

Project Date: October 10, 2011

Project Summary: Forty-six volunteers worked on clearing and re-establishing a nature trail. The group spent a few hours clearing trees, brush and other debris along the trail route. New educational signage was also added along the path. The signage describes the ecology of the riparian woodland and area's native species.



Additional enhancement projects were installing a split-rail fence, repairing a foot bridge, restoring an existing primitive stair case, constructing four small wooden benches to place on the trail and spreading gravel to improve the trail surface.

The trail will provide be used as an area for education, recreation and relaxation by the military personnel and their families as well as the general public. The trail will be used by birders, photographers, fitness buffs and other outdoor enthusiasts.

Contact: Mike Houck, Wildlife Biologist | (785) 239-2537

Fort Stewart | Georgia **Cultural Project: Cemetery Maintenance**

Project Date: September 24, 2011

Project Summary: This project consisted of a one day event to enhance Fort Stewart's Little Creek Cemetery. The day began with an orientation covering the history of the cemetery and instructions on properly cleaning gravestones. The 84 volunteers were divided into two groups and either cleaned gravestones or removed debris from the cemetery grounds. After the cleanup, volunteers installed a commemorative marker with information specific to the Little Creek Cemetery and signage with pictures of the old site.

This project helped to restore the beauty of one of Fort Stewart's pre-military cemeteries and prevent further degradation of the headstones. The activities also highlighted the installation's commitment to cultural resource preservation and partnering with the community on projects. Many volunteers expressed interest in being involved in future efforts to preserve the installation's other cemeteries.

Contact: Amanda Hinesley, Public Relations | (912) 767-2010

Joint Base Charleston | South Carolina Natural Resource Project: Pollinator Habitat Enhancement

Pollinator Project

Project Date: September-October 2011; Multiple Workdays

Project Summary: Over several workdays, 34 volunteers added 150 fruit and mast producing trees to enhance a wildlife habitat. The group, including hunters utilizing the installations hunting program, added the vegetation trees in and around harvested and replanted pine plantation sites. Efforts from this project will enhance wildlife browse and bolster the hunting program. Additionally, visitors and the local community will be able to enjoy the various fruits and nuts produced by the newly planted trees.

Contact: Terrence Larimer, Natural Resources Manager | (843) 764-7951

Joint Base Lewis McChord | Washington Natural Resource Project: Garden Maintenance and Pollinator Habitat Restoration

Pollinator Project

Project Date: November 2011; Multiple Workdays

Project Summary: At Joint Base Lewis McChord, 10 volunteers participated in projects over multiple days at various sites. On the first day, the group added prairie and riparian plants to two different areas. At another site, volunteers built bee and planter boxes. During the second workday, volunteers constructed raised beds and compost bins.

As a result of this project, the community now has access to 20 new raised beds for vegetable gardening, and will be able to compost weeds and unwanted vegetable material from each person's garden plot. Pollinator plants and species will benefit from this project as well. Over 100 rare plant species were placed in the planter boxes and these plants will serve nectar sources for many species of insects.

Contact: Dave Clouse, Fish and Wildlife Program Manager | (253) 967-3474

Ka`ala/Schofield Barracks West Range | Hawai'i Natural Resource Project: Native Forest Restoration

Pollinator Project

Project Date: September 24; October 8; November 5 and 19; and December 3.

Project Summary: The Oahu Army Natural Resources Program coordinated five volunteer service days to maintain the native forest of Ka'ala. During this timeframe, volunteers and base staff placed wire mesh along 700 meters of boardwalk to help control an invasive moss that was threatening the native ecosystem.

The first and biggest volunteer day was on September 24, when a total of 12 volunteers spent eight hours enhancing the forest. On four additional eight hour days, a total of 29 volunteers worked to control the invasive moss. Volunteers were thrilled they had the opportunity to protect the forest and to hike along the picturesque trail leading to the worksite. Along the hike, base personnel made several stops to discuss the area's natural resources.

Contact: Kimberly Welch, Environmental Outreach Specialist | (808) 656-7741



Redstone Arsenal | Alabama **Natural Resource Project: Wetland and Cultural Outdoor Education Center Upgrades**

Pollinator Project

Project Date: September 24, 2011

Project Summary: At Redstone Arsenal, a variety of projects to upgrade the wetland and cultural education center took place. Prior to the workdays, volunteers received environmental education materials with information on the species the effort would benefit. On the actual event day, 25 volunteers stained and installed bat houses; raised purple martin houses; removed debris from the trails; landscaped various sections; and planted perennials.

Contact: Shannon Allen, Ecologist/NEPA Support | (256) 876-3977

Umatilla Chemical Depot | Oregon **Natural Resource Project: Owl Habitat Maintenance**

Project Date: September 12-15, 2011

Project Summary: Since 2008, Legacy funds have been used by Umatilla Chemical Depot to benefit the installation's burrowing owl population. Over the past four years, volunteers have installed artificial nesting burrows and the owl population has grown from four pairs in 2008 to 61 pairs in 2011. During NPLD 2011, 46 artificial burrows were constructed and installed; enough habitat for 23 additional pairs of owls to nest. The day after the first project occurred, some of the burrows were already in use.

This event was a four day conservation and education workshop that focused around the design, installation, and use of artificial burrows for the conservation and management of burrowing owls. All 22 volunteers received a technical training program and had the opportunity to directly engage with owls directly that site managers captured and banded during the project.



Contact: Don Gillis, Natural Resources Manager | (541) 564-5420

United States Army/Air National Guard



Biak Training Center | Oregon Natural Resource Project: General Maintenance

Project Date: September 23, 2011

Project Summary: At Biak Training Center, 10 Boy Scouts and 90 youth from underserved communities took part in the NPLD activities. The participant included correctional detainees from Jefferson County and cadets from the Oregon Youth Challenge Program. The hardworking individuals cleared the debris from Redmond Caves Park, maintained a staging area and removed litter from a training area. All three projects made the facility more inviting and enhance the natural beauty found in the outdoor environment on base.

Contact: David J. Duncan, ITAM Coordinator | (541) 923-8943

Camp Dawson Army Training Site | West Virginia Natural Resource Project: Interpretive Trail Enhancement

Project Date: September 24, 2011

Project Summary: This project involved 15 volunteers extending an interpretive trail and installing signage within Camp Dawson's Volkstone Training Area. The trail was developed in bottomland hardwood forest and showcases some of the installation's unique riparian habitats, such as the forested wetlands and palustrine emergent wetlands.

Contact: Rick Chaney, ATS Environmental Manager | (304) 791-4135

Camp McCain Training Center | Mississippi Natural Resource Project: Tree Planting and Invasive Species Monitoring

Pollinator Project

Project Date: November 29, 2011

Project Summary: Camp McCain's 2011 NPLD tree planting project was conducted and completed with the assistance of the Grenada County 4-H Leadership Class. Five students and their leader along with members of the Camp McCain staff planted over 100 red maples, 30 native fruit trees and 10 burning bushes beside two roads on base. These maple seeds and fruit trees are sources of nourishment for several animal species and the trees also serves as roosting and nesting sources for several bird populations. Students were given a briefing that explained the environmental and natural resources program in place at Camp McCain. The group was also provided with instruction in proper tree planting techniques and follow up care for the trees.



Additionally, Legacy funds were also used to purchase game cameras for surveying wildlife and monitoring the invasive hogs encroaching on the installation.

Contact: Mark Williams, Natural Resources Specialist | (662) 294-0305

Fort Custer Training Center | Michigan Natural Resource Project: Tree Planting and Pollinator Habitat Improvement

Pollinator Project

Project Date: September 24, 2011

Project Summary: On September 24, Boy Scouts along with base personnel planted over 50 orchard trees, including cherry, apple, peach and pear varieties. Plantings helped transform a former actively military into an orchard that appeals to native pollinators. The trees also improved the aesthetics and the base residents will be able to enjoy the fruit produced by the trees. Approximately 60 individuals participated in the tree planting efforts.

Contact: Jonathan Edgerly, Natural Resource Specialist | (269) 731-6570

Fort Indiantown Gap | Pennsylvania Natural Resource Project: Native Species Conservation

Pollinator Project

Project Date: September-October 2011; Multiple Workdays

Project Summary: This project occurred over multiple workdays as heavy rain forecasted for September 24 reduced the amount of volunteers and activities that could be completed in one day. The proposed museum landscaping project was unable to occur. Other projects that volunteers did complete included, removing flood debris from the trout nursery, planting native trees, improving outdoor recreation facilities, pulling invasive vegetation and adding native plants to the pollinator garden.

Species most benefiting from this project included the trout raised on base and local butterfly population. All 63 volunteers were made aware that removing stream debris had saved 1,000 trout. The native vegetation added to the pollinator garden is especially important as these plants are a source of nectar for the Regal Fritillary butterfly. Fort Indiantown Gap is one of two locations in the east which can support this butterfly's habitat.

Contact: Rita Meneses, Cultural Resource Manager | (717) 861-9415

Fort McClellan Training Center | Alabama Natural Resource Project: Pollinator Habitat Improvement

Pollinator Project

Project Date: November 19-21, 2011

Project Summary: Fort McClellan Army National Guard Training Center held its third annual National Public Lands Day event, which involved improving a pollinator habitat. Over 20 local Boy Scouts and Girl Scouts assisted environmental staff in planting 200 native plum trees, 100 native plants and removing invasive species from a longleaf pine plantation. Boy Scouts held two work additional workdays to construct 12 birdhouses and 2 bat boxes.

This event was part of a two-night campout for the Scouts, held at "Camp Willett", a former Boy and Girl Scout camp from the 1930's later purchased by the Army. During the weekend, environmental education talks were provided by the Fort McClellan natural resource manager. Discussions were held on topics such as the longleaf

pine ecosystem, bat species and proper tree planting. The youth also received instructions on how to identify winter bird calls.

Contact: Leah Nerem Storino, Natural Resources Program Manager | (256) 847-4548

Fort Pickett Maneuver Training Center | Virginia **Natural Resource Project: Site Beautification and Pollinator Garden Maintenance**

Pollinator Project

Project Date: November 3, 2011

Project Summary: At Fort Pickett Planting approximately 25 volunteers enhanced the aesthetics of a gymnasium along Military Road. They also removed approximately one-quarter acres of a deep slope that needed to be cleared for safety reasons.

The vegetation planted to beautify the base consisted of 700 Shore Juniper ground cover plants and 50 Mountain Laurel native shrubs. Also added was seeds from various native wildflowers including, Black-Eyed Susan and Lance-Leaf Coreopsis.

Contact: Ken Oristaglio, Natural Resources Program Manager | (434) 298-6416



McCrary Training Center | South Carolina **Natural Resource Project: Pollinator Propagation**

Pollinator Project

Project Date: September 24, 2011

Project Summary: Over the past two years NPLD volunteers have greatly enhanced the natural resources at McCrary Training Center. For the 2011 NPLD project, more than 20 students from a local school helped assemble and paint bee boxes that will help grow McCrary's current Honey Bee population. The volunteers were allowed to use their creativity to paint the bee boxes and the finished boxes had multiple colors and designs.

Volunteers of the program participated in a presentation depicting the importance of pollinator species and the pollinator/plant relationship.

Contact: Daniel Hutto, Environmental Health Manager | (803) 806-2091

Volunteer Training Site Catoosa | Tennessee **Natural Resource Project: Debris Removal**

Project Date: October 15, 2011

Project Summary: At Volunteer Training Site Catoosa, over 60 participants cleared over 1,300 pounds of trash from Tiger Creek to benefit the trout habitat and beautify the creek. Participants who assisted with the project included Lakeview Junior Reserve Officer Training Corps Cadets. The cadets asked base staff if a more labor intensive event could occur in 2012. Volunteers quickly brainstormed ideas and decided on to focus a future event on exotic plant removal.

Contact: Melissa Bell, Environmental Biologist, BWM Contractor | (615) 313-0603

United States Marine Corps



Marine Corps Air Ground Combat Center, 29 Palms | California Natural Resource Project: Tortoise Display Garden Construction

Pollinator Project

Project Date: October-November 2011

Project Summary: Base staff and volunteers installed a tortoise display garden at Marine Corps Air Ground Combat Center, 29 Palms. The project started with activities in late October and early November when retaining wall bricks and irrigation system were laid out by Natural Resources & Environmental Affairs Division (NREA) personnel. After the walls were built, NREA staff and base residents filled the garden bed with soil that was donated from another department on base. To complete the garden, the 15 participants added a tortoise fence, two artificial tortoise burrows, and native plants and seeds to the area.

Contact: Nora Bruennel, Biological Science Technician | (760) 830-5717



United States Navy



Joint Base Pearl Harbor-Hickam | Hawai'i Cultural and Natural Resource Project: Burial Platform Enhancement and Native Vegetation Planting

Pollinator Project

Project Date: October 1, 2011

Project Summary: At Joint Base Pearl Harbor-Hickam in Hawai'i, 50 volunteers assisted with a single day event that enhanced both cultural and natural resources. The cultural resources portion enhanced a native Hawaiian site, the Halealoha Haleamau Burial Platform. Native Ki was planted outside the platform's perimeter to beautify the area and make it more inviting. The natural resources habitat restoration project involved removing invasive pickleweed and planting native vegetation.

A base historian and archeologist conducted breakout sessions during the work event where volunteers learned about the rich history and cultural significance of Joint Base Pearl Harbor-Hickam.

Contact: Patricia Colemon, Regional Environmental Coordinator | (808) 473-0369

Naval Support Activity Monterey | California Natural Resource Project: Pollinator Garden Enhancement

Pollinator Project

Project Date: September 24, 2011

Project Summary: Fourteen volunteers helped enhance the Monterey Pines RV Park. Work projects were aimed at benefitting a federally-listed endangered orchid species, Yadon's Rein Piperia, located within fenced in sections of the park. To improve the orchid habitat, a flower garden was planted to attract night-flying moths, which are believed to pollinate the orchids. White and light colored flowers were planted along with native shrubs and trees to create a small garden that will screen industrial views, beautify the park and attract native pollinators.

In addition to the flower garden, eight large Monterey pines were planted. The trees were donated by the RV park manager and further beautify the park, which is frequently used by a variety of individuals including dog walkers, families and residents.

Contact: Vicki Taber, Natural Resource Specialist | (831) 656-3639

Naval Weapons Station Seal Beach | California Natural Resource Project: Habitat Restoration

Pollinator Project

Project Date: October 15, 2011

Project Summary: Naval Weapons Station Seal Beach and Seal Beach National Wildlife Refuge hosted a volunteer event that restored native vegetation to several acres of upper saltmarsh habitat and adjacent upland habitat. Volunteer projects included removing invasive vegetation, preparing the land for restoration and planting over 700 native plants. Over 250 members of the base and local community participated in this event.

The upland restoration areas provide habitat and shelter for state and federally-listed endangered bird species, numerous pollinator species, as well as a wide variety of mammals, amphibians, birds and reptiles. The added native plants also serve as a buffer between wetland habitat and agricultural lands.

Contact: Bob Schallmann, Conservation Program Manager | (562) 626-7290

Naval Weapons Station Seal Beach, Detachment Fallbrook | California Natural Resource Project: Creek Restoration and Invasive Species Control

Pollinator Project

Project Date: October 1 and November 19, 2011

Project Summary: The Naval Weapons Station Seal Beach, Detachment Fallbrook habitat restoration and invasive vegetation removal events occurred over two days. During the habitat restoration, 50 volunteers removed invasive plants and planted native species. For the invasive removal portion, volunteers installed a fence to prevent cattle from spreading an invasive weed.

The habitat restoration project resulted in a one-half acre area being restored to a more native habitat condition. Not only was exotic ice-plant, eucalyptus, castor bean and pepper tree removed from the site, but more than 50 native species were also planted at the site. Presently, the planted species are taking hold and the site has remained free of ice-plant. For the fencing installation project, the exclusion of cattle will allow the base to successfully pursue removing noxious goat-grass and preserving grassland biodiversity.

Contact: Vanessa Shoblock, Conservation Specialist | (760) 731-3516

NIOC Sugar Grove | West Virginia

Natural Resource Project: Invasive Species Removal and Native Species Planting

Pollinator Project

Project Date: September 23 and December 2011.

Project Summary: On September 23, 2011 a group of 18 volunteers donated 50 hours to plant 10 new persimmon trees and remove almost 2,500 pounds of invasive vegetation. Projects enhanced the local wildlife habitat and benefitted the Potomac River Basin and the Chesapeake Bay watershed. Participants received a brief overlay of NPLD, the importance of removing invasive species and the benefits of planting native vegetation.

In December, a separate group of volunteers planted American chestnut and Chinquapin trees.

Contact: Steven Niethamer, Installation Environmental Programs Director | (304) 249-6341

Patuxent River Naval Air Station | Maryland

Natural Resource Project: Invasive Species Control and Tree Planting

Project Date: September 24, 2011

Project Summary: The activities at Patuxent River Naval Air Station were accomplished over a series of workdays. Efforts began with the base's natural resources staff marking invasive wild Bradford Pear saplings in the field. Next, 45 Boy Scouts removed the invasive pear trees and replaced them with native or non-invasive trees.

Natural resources staff educated the Patuxent River Navy community (approximately 31,000 employees) why volunteers would be removing and replacing large, apparently healthy, landscape trees. The on-base project staff also worked closely with other base personnel to select replacement trees that would fit the installation's needs.

Contact: Kyle E. Rambo, Conservation Director | (301) 757-0005