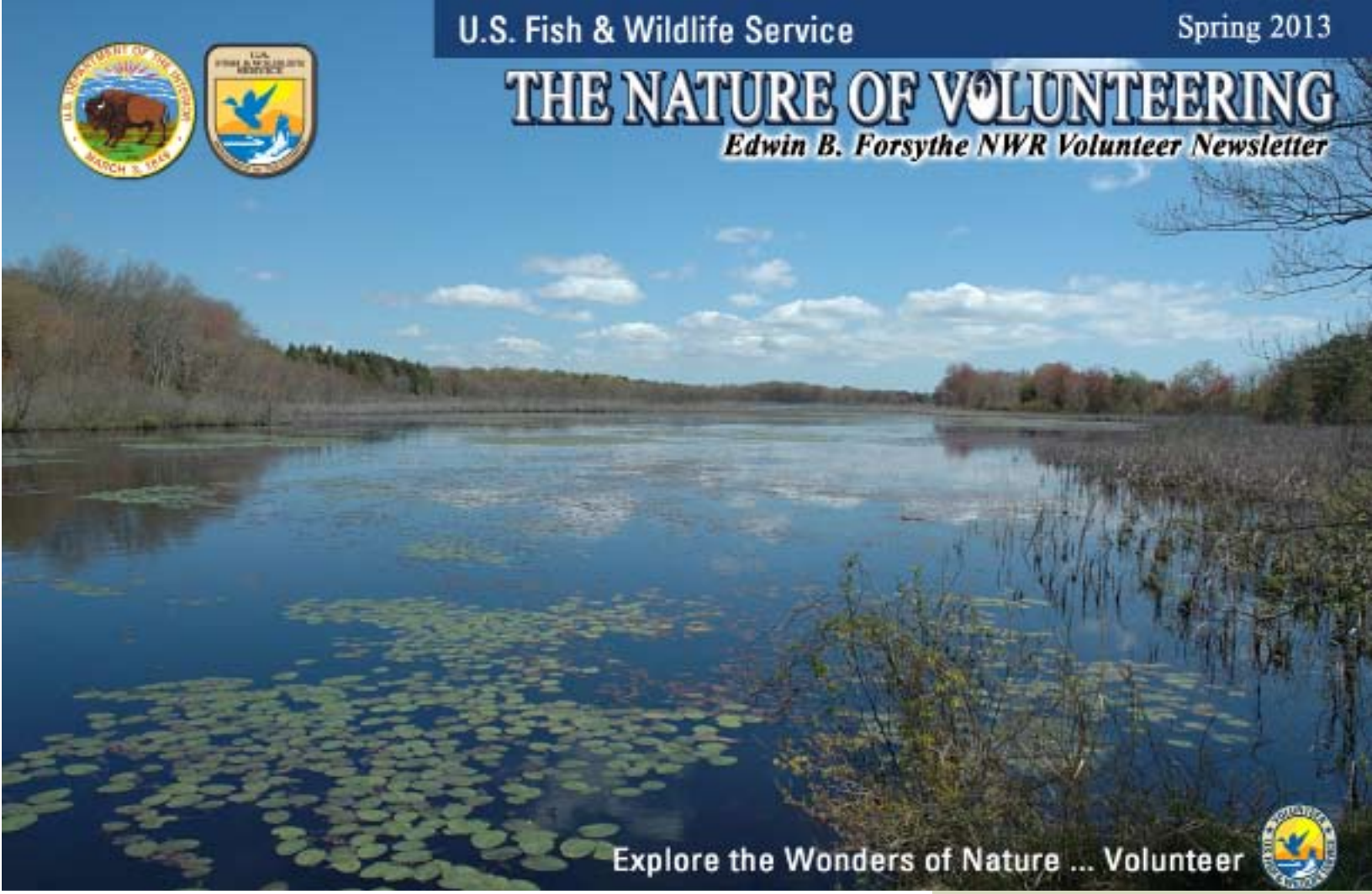
U.S. Fish & Wildlife Service Spring 2013

THE NATURE OF VOLUNTEERING

Edwin B. Forsythe NWR Volunteer Newsletter



Forsythe Refuge Wildlife Drive Reopens

After almost three months of construction and over 2,000 dump truck loads of fill, the popular Wildlife Drive at Edwin B. Forsythe National Wildlife Refuge and all trails in Galloway Township reopened on April 20.

The eight mile Wildlife Drive traverses marshland and forest and is the most popular destination on the Refuge, with over 100,000 visitors in a typical year.

Hurricane Sandy created large holes in the top and sides of the Wildlife Drive, which had been closed since last October. Reconstruction of the drive began on January 14.

The repairs were funded by the Federal Highway Administration and the Emergency Relief to Federally Owned Roads program and completed by Wagman Construction Inc. of York, Pa.

"Reopening Wildlife Drive represents the State of New Jersey moving forward after the storm," said Refuge Manager Virginia Rettig. "We are thrilled to be able to reopen the drive for the enjoyment of nearby residents as well as for the many who come from a distance to visit."

The Wildlife Drive and adjacent trails are open from sunrise to sunset. The Refuge Visitor Information Center is open from 10 a.m. to 3 p.m. during the week and from 9 a.m. to 4 p.m. on weekends.

Migratory season is here. The Ospreys have returned. There is a camera monitoring the activity on one nest, which is active 24 hours a day. To see the activity in this nest, go to www.friendsofforsythe.org and click on the "Osprey Camera" button.

The Visitor Information Center and the Friends Nature Store continue to be open from 10 a.m. to 3 p.m. weekdays, and from 9 a.m. to 4 p.m. on weekends. Come on over and check out the new interactive displays in the Gallery. There are many interesting items available for purchase in the Nature Store, including our own "At the Refuge" tee shirts.

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CHIEF'S CORNER

Jim Kurth, Chief
National Wildlife Refuge System

Giving Nature a Hand

Mother Nature is pretty good at taking care of herself.

Ecosystems are full of forces that provide for renewal. Some occur annually, like flooding in bottomland hardwoods. Others are periodic, like fire in longleaf pine forests. There are infrequent, catastrophic events—major hurricanes, stand-replacing wildfires, tornadoes and derechoes—that reset the clock on natural succession of the landscape.

As our population continues to grow and more wildlife habitat is converted to human uses, the fragmented landscape often prevents the ecosystem from functioning naturally. These fragmented lands, which include most of our national wildlife refuges, require management that mimics the ways natural landscapes function.

Over the years, we have developed a wide variety of management practices to ensure that refuge lands provide healthy and vibrant habitat. We have studied the ways that natural disturbances—like the ones described in the Focus section of this issue of Refuge Update—help shape ecosystems. We have continued to learn and adapt our land and water management practices to accommodate such disturbances. No one manages land for wildlife better than the U.S. Fish and Wildlife Service staff working on national wildlife refuges.

At Mississippi Sandhill Crane National Wildlife Refuge, where I started my refuge career in 1979, the coastal savannas on which the cranes depend were so degraded that the birds were on the verge of extinction. We found only two nests in 1981. Timber companies had tried to drain the land, convert it to pine plantations and keep fire out.

Over the past 30-plus years, the refuge has worked hard to return fire to the landscape, restore natural hydrology and remove the pine plantations. The landscape has returned to its more natural state, and the birds have responded.

I saw on Facebook that the refuge had already found 15 crane nests by mid-April, and there's plenty of time for more to be found. When bad budgets and big bureaucracy start to wear us down, it helps to remember stories like this can be found throughout the National Wildlife Refuge System.

Ira Gabrielson told us in 1941 that "the conservation battle cannot be a short, sharp engagement, but must be grim, tenacious warfare—the sort that makes single gains and then consolidates these gains until renewed strength and a good opportunity makes another advance possible."

Keep up the good fight.

Conserving the Future: Wildlife Refuges and the Next Generation

We do indeed live in interesting times. I think sometimes, as we continue on this journey in pursuit of our conservation mission, it's worth reflecting a little bit about the rich history that we all share, and look at some of the really unprecedented challenges that we are all facing in what is the most uncertain future I think that we have ever faced. Some of us have been along this journey together for an awfully long time, but others of you are pretty new and are just joining us. It's fun to reflect sometimes. Get the old compass out, get our bearings, and make sure that we know where we going. And I think that's exceptionally important right now because there are a lot of folks out there who are expecting us to lead them as we go into the future.

The mission of the U.S. Fish and Wildlife Service is *working with others, to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of the American people.* Why do we do this? If you are going to talk to people in this country about the work that we do, why is it important? This country has a rich history and it has this construct of American exceptional-ism that is founded in our land, in the bounty of our natural resources, in the historical connection our people have to it - and people, when they reflect on this, care. They care about the work we do. We have a vision of where we want to go. As a Service, our vision for the National Wildlife Refuge System; our vision for landscape scale conservation; how science is foundational to it, and how we are going to serve the American people while we do this.

Coming together is a beginning: Keeping together is progress: Working together is success.
- Henry Ford

At Forsythe Refuge, Lessons From Sandy

Don Freiday,
Visitor Services Manager

Hurricane Sandy, the largest Atlantic tropical system on record, seemed to have Edwin B. Forsythe National Wildlife Refuge in its sights when it made landfall in New Jersey on October 29, 2012. Sandy brought winds up to 90 mph and pushed a massive surge onto beaches and shorelines. The hurricane's eye went directly over Forsythe's Wildlife Drive.

Even before the storm, U.S. Fish and Wildlife Service staff prepared for the impact. The Refuge was closed to visitation, and personnel made sure everyone was safe and accounted for. The hatches were literally battened down, as maintenance staff locked the shutters on the new hurricane–proof visitor information center.

Luckily, damage to refuge buildings was minimal, but on the refuge's 47,000 acres of land, mostly salt marsh, it was a different story. Immediately after the storm, assessment flights by helicopter and a thorough on–the–ground rapid assessment by a team of Service personnel revealed extensive damage and alteration to the refuge.

Forsythe's eight–mile Wildlife Drive, a birding destination for 100,000 visitors each year, was breached or washed out in several locations. Repairs have been completed, and the drive has been reopened. However, access to the Refuge's Holgate unit, part of the Brigantine Wilderness Area and a popular surf–fishing destination, was destroyed and remains closed while partners restore access.

A bigger problem than the damage to areas of public access, from an ecological perspective, was debris. Sandy left a 22–mile debris field in the Refuge's sensitive coastal marshes and wetlands. Salvage operations have begun to remove more than 150 boats, fuel oil tanks, chemical drums and other hazardous materials that need to be disposed of properly. Sandy also deposited dozens of docks and piles of debris from destroyed homes on the refuge.

LESSONS, cont'd on page 10

What Happened Near Jen's Trail Along the Wildlife Drive?

With the Wildlife Drive reopening, visitors may notice some important habitat management that has taken place in the uplands. In order to provide habitat for "early successional" species, like brown thrashers, American Woodcock, eastern towhees, blue grosbeaks, butterflies and many other kinds of wildlife, former fields and shrubby areas that have grown up with woody plants are being cut back.

WHAT WE DID: Cut back the growth: Using a powerful tool known as a hydro-axe, we cut down shrubs and trees, setting the growth of the forest back to the valuable scrub-shrub stage. This management will favor grasses, forbs, and especially fruit-producing shrubs and trees, including blackberry, viburnums, and cherry.

WHY WE DID IT: Management made better habitat for wildlife in the long run. Some animals like meadows, some like forest, but many prefer an in-between habitat known as *scrub-shrub*. Here at Edwin B. Forsythe National Wildlife Refuge, we manage habitats for *all* kinds of wildlife, including scrub-shrub users.

WHO BENEFITS? Special scrub-shrub species. Scrub-shrub management helps special species including American woodcock, brown thrasher, eastern meadowlark, blue grosbeak, eastern towhee, wintering migrating land birds, cottontail rabbits, butterflies and many others.

A Message from our Refuge Manager, Virginia Rettig

Well, it looks like we've made it out of what seemed like an unusually long, cool winter. The other day we saw a Purple Martin checking out the nest gourds here and I spotted the Garden Group sprucing up our gardens just yesterday!

I know that many of you have been very concerned about the Refuge and may not have been around as much due to the closure of the Wildlife Drive. Well, we are happy to report that we have re-opened the Drive and are inviting everyone back out there to enjoy wildlife! We were very fortunate and grateful to get swift funding from the Federal Highways Administration.

When you come visit, you will see we have new exhibitry in the Visitor Information Center. We've been working for over a year to design it so it relays the all-important message that we, here in South Jersey, are a part of the environment and it is integral to our existence. I think you will like what you see.

The hurricane left behind much damage. We still have some public facilities to fix and miles of debris to remove from the marsh – so while we are pleased to be moving forward, we have much work to do. Know that the staff here is dedicated to getting us back to where we were before the storm.

Now, strap on your binoculars and your camera and come on over to YOUR Refuge!

more on new exhibits on page 5

Osprey Cam

Ben Wurst, Conserve Wildlife Foundation of NJ

Ospreys are back, and we're excited to broadcast the live view of an osprey nest inside Edwin B. Forsythe National Wildlife Refuge.

The Conserve Wildlife Foundation of New Jersey has installed a high resolution, wireless, web-linked camera on an osprey nest at Edwin B. Forsythe National Wildlife Refuge in Oceanville, NJ. The purpose of this camera is to engage the public in osprey protection and to educate them about the challenges to osprey recovery. The live feed with sound (in progress) will be broadcast 24/7 at http://www.conservewildlifenj.org during the nesting season for ospreys from March through August. We are also developing an educational program that will be used to educate the public about ospreys, threats to them and their environment, recovery efforts, and ways people can help. This program includes the creation of a tri-fold brochure and a coloring book for children.

Our goal is to increase awareness and protection of ospreys in New Jersey.

The use of this camera will also be used to help identify the breeding pair of ospreys by their leg bands (if they are visible). This information will help us determine their site fidelity, age, and migration routes. It will also be used to gain more useful information on the use of trash as nesting material and its link to their reproductive success. We also plan to develop a detailed installation guide with the tools and resources for other land managers and biologists to install this same type of remote camera system at other locations.

The development of an educational program will help viewers and future conservationists learn about ospreys and the challenges they face in the future. It will focus on osprey identification, habitat preferences, their historic decline (and why they need nesting platforms now), prey availability and links to reproductive success, and how people can help by reducing disturbance and monitoring nest sites.

Wildlife Fact:

Ospreys dive feet first when in pursuit of prey. They're specially adapted to catching fish. They have long legs, sharp hooked talons, and spicules (sharp barbs) on their feet help hold slippery fish. - Conserve Wildlife

Something New…Something Exciting

By Iris Schwartz, Volunteer

Something new and exciting has been going on at the Visitor Information Center (VIC) here at the Forsythe National Wildlife Refuge and if you haven't been here since the start of the year, you might want to drop by. We have displays of interest for visitors of all ages and the building is universally accessible . Let's take a tour, shall we?

Introductory Panels and Nature Store

Walk through the front doors of the VIC and as you make a right past the Nature Store look to your left. There you will see three swivel-board panels that offer you information front and back as a starting point to begin explaining the habitats, wildlife and people of our Refuge.

The Gallery

Now, stop at the opening to the gallery and beyond the window (and our well-visited bird feeders) is a wonderful view of the marsh. Let's step into the Gallery and turn to our right. Want to see how one of our resident osprey families is doing? Our osprey cam is now up and running ~~ch~~eck out the monitor on your right.

Continue along the wall to the Salt Marsh diorama for sights and sounds. Consider the chain of life from the creatures in the marsh mud (fiddler crabs, worms and mussels) to those in the water (ducks, shrimp and terrapins) to those in the air (northern harrier). Crabs and terrapins and birds, oh my! Guess what they are…not sure? Pull out a drawer that contains a guide which tells you what each one is. Did you see the banded duck? And just below is a touch table for those who cannot reach tabletop height. Surely by now you have heard the tweets, cheeps, croaks of the salt marsh residents which begin as sensors detect activity in this part of the room.

Want to know about the tides that affect the marsh? Look at the rhythm of the tides display which you can change by spinning a dial. Watch how 24 hours of tidal changes affect the activity of nature's creatures. And continuing to the next wall is a touch table display of

items found on the beach. There are murals depicting the barrier islands, beaches and dunes and the value of biodiversity and shelter for sensitive species. Learn about air quality and how the National Fish and Wildlife Service (NFWS) and the State of New Jersey are working together to monitor the air we breathe. Use the touch screen to see how you can help.

Now check out the views at our floor-to-ceiling window Northeast, East and Southeast! Stop and read how you can support your Refuge and help children connect with nature. Follow along to the exhibit that asks you to consider our disappearing coast and tells you how we monitor the rising seas and concerns for the future of the marsh environment.

SOMETHING NEW, cont'd on page 6

SOMETHING NEW, cont'd from page 5

The final wall is about the oak-pine forests, wetland forests and Atlantic white cedar swamp. Did you see the items to touch that are found in those places?

Refuge Floor Map

Wait, don't leave just yet. Did you see the map of the Refuge under your feet? Stop and admire this map where you can see the various Refuge Access Points in one long look. You can even 'walk' from one end of the Refuge to another. And standing on the map are five free-standing signboards that depict some of the Refuge access points and the wildlife drive along with pictures of birds found in those locations.

Video Alcove and Hall

As you exit the Gallery to your right you can enter the video alcove where you may watch a short video of the Refuge around the year. Just ask one of the VIC volunteers to turn it on for you. Then you can continue down the hall toward the back door leading to the parking area. On your right are descriptions of the special features of the building itself - green - with low-water-use plumbing fixtures and a photovoltaic solar panel system. These features allow us to reduce our overall energy consumption and reduce our carbon dioxide emissions. A commitment to conservation is a part of the mission of the US Fish and Wildlife Service.

And finally, on your left, a map of the National Wildlife Refuges in the US as well as the four major migratory flyways (Pacific, Central, Mississippi and Atlantic). Note that the Edwin B. Forsythe National Wildlife Refuge is an important link in the Atlantic flyway.

Come on by to visit us!

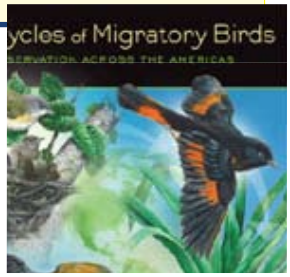
It's Finally!

Spending time outside is fun for the whole family. And it doesn't have to be somewhere far from home. It can be simple and safe:

- Take a walk in the woods
- Lie on your back in your backyard and watch the clouds roll by
- Turn over rocks in a stream and look for critters
- Catch lightning bugs
- Climb a tree
- Fish at a local pond
- Draw a picture of a tree and all the animals that live in it
- Picnic at a local park

So what are you waiting for? Go outside and connect a child to the wild (and awaken the child in you)!

Celebrate International Migratory Bird Day 2013 with a Focus on Bird Life



This year's theme of International Migratory Bird Day (May 11th) details all aspects of a migratory bird's life from migration to breeding to nesting and to raising young. The following simple solutions are presented in the hope of connecting people to bird conservation and engaging people in actions that help birds.

- Windows collide with birds!
- Put a leash on!
- Leave Fledglings Where You Find Them!
- Clean Your Bird Feeders!
- Use Cloth Grocery Bags and Reusable Bottles!
- Recycle!
- Restore Natural Habitat in Your Community!
- Plant Native!
- Keep Your Distance!
- Slow Down When Driving!
- Be a Citizen Scientist
- Buy Bird Friendly Products!
- Teach Others About Birds!
- Take a Friend Bird Watching!
- Get Outdoors and Enjoy Nature!

Follow this link for more information - http://www.birdday.org/

The Friends of Forsythe NWR is a non-profit group established in 1998 to provide support and services to the Edwin B. Forsythe National Wildlife Refuge in Oceanville, New Jersey. Our goals are:

- Promoting a better understanding of the natural history and environment of Southern New Jersey, the Edwin B. Forsythe NWR and the National Wildlife Refuge System.
- Helping to preserve and enhance the wildlife habitat at this Refuge, and to assist the Refuge, the Refuge System and the U.S. Fish and Wildlife Service in a variety of educational and supportive efforts.

Please consider joining the Friends of Forsythe and help us accomplish these goals. Call 609-573-1535 or visit www.friendsofforsythe.org

WASHINGTON — Rep. Jon Runyan touted a bill Thursday that would allow thousands of volunteers to continue working at national wildlife refuges around the country, including the Edwin B. Forsythe refuge in New Jersey.

"Volunteers are the backbone of national wildlife refuges and the refuge system could not function adequately without their contributions," the Mount Laurel Republican told members of the House Natural Resources Subcommittee on Fisheries, Wildlife, Oceans and Insular Affairs.

Authorization for volunteer programs at national wildlife refuges expires at the end of fiscal 2014. Runyan's bill, which he described as a "common-sense bipartisan piece of legislation," would extend the programs through fiscal 2018.

Volunteerism in the nation's wildlife refuge system has soared from 4,251 people in 1982 to more than 56,000 people working 2.15 million hours in 2012. That's roughly equivalent to more than 1,000 full-time employees -- or $47 million in wages.

"During a time of mounting deficits and tightening budgets, these volunteers are absolutely crucial," Runyan told members of the subcommittee.

"The volunteer contributions at the Forsythe Refuge, in my district, are a shining example of why this legislation is necessary and needs to be reauthorized as soon as possible."

Mary Harper of Friends of Forsythe National Wildlife Refuge, the volunteer group that supports southern New Jersey's refuge, told the committee that volunteers work every day with refuge biologists, lead interpretive tours and nature walks, staff the Nature Store and visitor information center, and teach environmental education classes.

They also lead popular programs such as a family archery class and a fishing derby in addition to driving and narrating a tour on a new electric tram on the popular 8-mile Wildlife Drive. The Forsythe refuge spans three counties in New Jersey, with a Barnegat section in Ocean County and a Brigantine section in Atlantic County.

The Forsythe volunteer group logged more than 14,000 hours last year, equivalent to seven full-time employees, Harper said.

"As funding for (wildlife refuges) dips, friends and volunteers step into the gaps because our public lands and natural history and heritage matter to us -- but there is only so much we can do," she said.

Jim Kurth, chief of the National Wildlife Refuge System, said the administration supports the bill, calling volunteer groups such as Friends of Forsythe some of the U.S. Fish and Wildlife Service's "best ambassadors to local communities."

"These locally established nonprofit citizen organizations have many different names, but they all share a passion for wildlife and our love of wild places," he said. "They help conservation happen at the local level."

Friends Ed Graham (L) and Mary Harper stand with Jim Kurth (R), Chief of the National Wildlife Refuge System, after testifying before the House Natural Resources Sub-committee on Oceans, Wildlife, and Insular Affairs on two refuge bills.

Grand Reopening of the Wildlife Drive

Edwin B. Forsythe National Wildlife Refuge
800 Great Creek Road, Galloway, NJ

May 18, 2013
8 a.m. to 12 noon

9:00 a.m. Ceremony - meet Congressman Frank LoBiondo

10 to Noon: Nature and Bird Walks, Wildlife Drive Scavenger Hunt, Kids Activities, and More

For more information, call 609-652-1665

Grand Reopening of the Wildlife Drive

May 18, 2013

The Event

After almost 3 months of construction and over 2,000 dump truck loads of fill, the popular Wildlife Drive at Edwin B. Forsythe National Wildlife Refuge in Galloway has reopened! The 8-mile Wildlife Drive traverses marshland and forest, and is the most popular destination on the refuge, with over 100,000 visitors in a normal year.

Hurricane Sandy created large holes in the top and sides of the Wildlife Drive, which had been closed since last October.

The Federal Highway Administration funded the repair work through the Emergency Relief to Federally Owned Roads program. Reconstruction began on January 14.

Don't forget to check out our new exhibits in the Visitor Center.
Play Wildlife Drive Bingo and win a small prize.
Pick up your game sheet in the Visitor Center.

Schedule

8:00A.M. - 9:00A.M.
Light Refreshments and Drinks
- under the big tent -

8:00A.M. - 8:45A.M.
Early Morning Bird and Nature Walk
- meet at Visitor Information Center -

9:00A.M. - 10:00A.M.
Official Reopening with
Congressman Frank LoBiondo
- under the big tent -

10:00A.M. - 11:30A.M.
11:00A.M. - 12:30P.M.
Bird and Nature Walks
- meet at the Visitor Information Center -

10:00A.M. - 12:00 NOON
On-Going Activities:

Kids Activities
- Children's Nature Discovery Area -

Open Archery Shoot
- Headquarters Building Area -

Stop and Chat with our volunteer naturalists:
Boardwalk - Saltmarsh/Oosprey
Gull Pond Tower - Migratory Shorebirds

Connecting People with Nature

Let's Go Outside!

Nature PHOTO CONTEST

ENTER TO WIN !!!

Sponsored by Edwin B Forsythe National Wildlife Refuge, Noyes Museum of Art of Stockton College, Friends of Forsythe, and the Stay Focused Photo Club

This is your opportunity to show your creative talent in the world of nature photography. Join us in our love of the great outdoors and capturing images to share and treasure for years to come. We welcome photographers of all skill levels.

Prizes: Prizes will be awarded in each of three age groups. All entrants and their families are invited to attend a reception at the Noyes Museum of Art on August 1st 2013 from 6:00 to 7:00 PM. First place winners in each age group will be acknowledged and have their image matted and framed by the contest sponsors. All entries will be displayed in the "Young at Art" gallery of the Noyes Museum of Art for the month of August. Contest runs from May 1st through June 30, 2013.

Eligibility: This photo contest is free and open to all youth between the ages of 7 and 18 who live in Atlantic, Burlington, Cape May, Cumberland and Ocean Counties and have the consent of their parent or guardian. Entries will be separated into the following age groups, 7-9, 10-13, and 14-18. Age group is determined by the photographers' age at the time that the image was captured. Image may be of any nature related subject.

Submission of entries: Each photographer may submit up to two digital files for consideration. Entries will be accepted between May 1st 2013 and July 1st 2013. Entries should be submitted as an e-mail attachment to youthphoto@comcast.net no later than 5:00 p.m. on July 1st, 2013. All entries must be in JPG format. Image files must be named in the following format:

LastnameFirstname_Titleofphotograph_agegroup.
Example: DoeJane_ospreyscene_7-9)
Entries will be judged in three (3) categories according to age: 7-9, 10-13 and 14-18.
Photos may be any nature related subject and must have been captured after January 1, 2012. Photographers retain all rights to their images. Judging: Photos will be judged according to technical aspects and artistic merit in each age group. All judging will be conducted by a panel of professional level photographers. Winners will be notified via email by July 15th, 2013. For additional information please call Sandy Perchetti at 609-652-1665

LESSONS, cont'd from page 3

Refuge biologists have been monitoring habitat changes and damage caused by the storm.

"Our freshwater impoundment was inundated with [highly saline] bay water, which caused the elimination of freshwater invertebrates, which will have to recolonize from upstream sources within the watershed," says Biologist Bill Crouch. "Overall, I was surprised how little the habitat seems to be negatively affected. Some marshes appear to have been 'cleaned' of trash that had washed up on them over the years. On Holgate, dunes were flattened and pushed westward, covering salt marshes in some cases. Salt marsh species will suffer, but beach nesting species may have more habitat now."

Disturbance can be beneficial. For example, the storm surge likely deposited a layer of sediment/silt on portions of the salt marsh. This kind of deposition might build up marsh levels, allowing them to keep up with sea–level rise, but that is a subject of ongoing research.

Sandy was a learning process for the Refuge. We were reminded that, in vulnerable coastal areas, management plans need to take into account the destructive potential of large storms. Tour roads, beaches and impoundments can be damaged, and buildings must be constructed to resist such storms.

The storm also served as a reminder of the vital role of partners, including the Friends of Forsythe (who have been incredibly supportive), the Barnegat Bay Partnership, the Federal Highway Administration, the New Jersey Department of Environmental Protection and the U.S. Army Corps of Engineers.

"Due to the large scale of the storm, it has been important for the Refuge to work with all of our partners to coordinate," says refuge manager Virginia Rettig. "That ranges from cleanup of contaminants to habitat restoration projects."

UPCOMING EVENTS

Bird and Nature Walks
Fridays from 8:00-10:00 a.m. Meet at visitor information center.

Campfire Singalongs
Fridays at 7 p.m.
May 3, 10, 17 and 31
by the Children's Nature Discovery Area

10th annual Hooked on Fishing, Not on Drugs derby
for kids 5 to 12
Saturday, May 11 at 8:00
Preregistration required - call 609-652-1665

Evening at Forsythe
May 17, 7pm
Beneficial Garden Insects by Dr. Peter Bosak, Entomologist

Wildlife Drive Official Re-opening Ceremony
Saturday, May 18, 8 a.m. to 12 noon
Full schedule of the day's events will be announced.

These events are free and open to the public.

WHO'S ON STAFF?

Refuge Manager, **Virginia Rettig**

Deputy Refuge Manager, **Chivia Horton**

Visitor Services Manager, **Don Freiday**

Seasonal VS Specialist, **Tiffany Kersten**

Wildife Biologists
Paul Castelli, Vinny Turner

Coastal Wetlands Biologist, **Bill Crouch**

Refuge Law Enforcement Officer
Chris Pancila

Administrative Officer, **Martha Hand**

Volunteer Coordinator, **Sandy Perchetti**

Maintenance Professionals
Tom Holdsworth, Roger Dutch

Edwin B. Forsythe National Wildlife Refuge
P.O. Box 72, Great Creek Road
Oceanville, NJ 08231
609-652-1665
http://www.fws.gov/northeast/forsythe

THE NATURE OF VOLUNTEERING