

2016  
ANNUAL  
REPORT

7 / BATS IN DECLINE

13 / DASHBOARD IS HERE

15 / OWLS FIND NEW HOME



DISCOVERY  
INNOVATION  
CONSERVATION



# A MESSAGE FROM

NatureServe Board Chair and President



Over the past year and a half, the NatureServe Network has accomplished amazing things. From rediscovering precious lost species, engaging citizen scientists, and shining a spotlight on the flora and fauna most in need, our expertise and “boots on the ground” data-gathering have a global impact because of the power of our Network.

Innovative tools such as the Biodiversity Indicators Dashboard now allow us to analyze and measure biodiversity trends for every country on the planet. Conservationists can now access user-friendly visual reports and over 300 data layers to make the best decisions for important places like the Chesapeake Bay. Our public-private collaborations empower decision-makers to evaluate different scenarios of conflicts in land use, resulting in successful conservation outcomes such as Puerto Rico’s recent achievement: protection of 16% of its territory.

Together, we are creating a world where everyone has access, at their fingertips, to up-to-date knowledge about Earth’s unique, rare, and threatened species and habitats.

**Nicole Firlotte**  
Board Chair



NatureServe’s mission is more urgent and timely than ever. As we look ahead to the future of biodiversity conservation, there will be both opportunities and challenges that decision-makers face. We promise to be at the forefront with reliable, scientifically backed information to guide them to make the best decisions for our planet in a changing world.

NatureServe is developing a new strategic direction that will focus on our shared vision for enduring **conservation success**, made possible through scientific **discoveries** that advance our biodiversity knowledge and the **innovations** we develop to uncover important trends.

Over the next few years, we will build on past success and achievements recognized by the MacArthur Award for Creative and Effective Institutions, and multiply these to fill a growing need.

Thank you for supporting our mission to provide the science that drives conservation action.

**Gregory Miller**  
President and CEO

## Board of Directors

**Nicole Firlotte** - Chair  
**Larry Master** - Vice Chair  
**Sabra Tonn** - Vice Chair  
**Mary Ann Lawler** - Treasurer  
**J. Douglas Ripley** - Secretary  
**Marcia Angle**  
**Sayles Braga**  
**James Brumm**  
**DJ Evans**  
**Robert Hoguet**  
**Urban Lehner**  
**Kimberly Nelson**  
**Dick Raines**  
**Aníbal Ramírez Soto**  
**Alberto Székely**  
**Candace Taylor-Anderson**  
**James Thorsell**  
**Gregory Miller** - ex officio

## Strategic Advisors Council

**Mike Andrews**  
**Tracy Austin**  
**Martha Boudreau**  
**Jack Dangermond**  
**Jim Geringer**  
**Lucas Joppa**  
**Andrew Kaiser**  
**Paul Hagen**  
**Carolyn Hendricks**  
**Sherry Huber**  
**Gary Knight**  
**Ed Kfoury**  
**Nancy Mathews**  
**Rick Ridgeway**  
**Bill Ruckelshaus**  
**Tom Smith**  
**Nancy Weiss**  
**Jonathan Wilfong**  
**Carol Wise**

# The Americas’ NETWORK FOR BIODIVERSITY



The NatureServe Network is an authoritative source of comprehensive, decision-quality biodiversity data. From the Arctic to Andes, we collect detailed scientific data for more than 70,000 species and 7,000 ecosystems and share it with the world.

What makes NatureServe unique is that we’ve established an internationally uniform, harmonized way of collecting and analyzing biodiversity information. There are over 1,000 professionals in our Network in over 80 programs in every U.S. state, Canadian provinces, and over a dozen Latin American countries. These professionals are the experts on their local biodiversity, and their information and expertise is rolled up into NatureServe. Critical decisions about our planet rely on NatureServe.



# The NatureServe Network



## DISCOVERY

We ask questions about biodiversity: What is it? Where is it? How is it doing? Our answers guide decision-makers about where to focus, in order to leverage and amplify conservation efforts.

**AMERICAN MARTEN**  
(*Martes americana*)  
NatureServe Status:  
Secure (G5) |  
Image by Larry Master



## INNOVATION

From visually stunning maps to compelling infographics to podcasts and videos, we create online tools that deliver scientific knowledge into the hands of the people who need it.



## CONSERVATION

Every good decision starts with good information. We make it possible—and easy—for people to use accurate, current scientific information as the basis for their conservation decisions and subsequent actions.

# NATURESERVE DISCOVERS

Getting our hands dirty, venturing to parts unknown, identifying with a keen eye - these are the hallmarks of biodiversity discovery, and what the NatureServe Network does everyday.



Read the full stories at [www.natureserve.org/news-and-events/stories](http://www.natureserve.org/news-and-events/stories)



### A CENTURY LOST

Collaboration between NatureServe and the Maryland Natural Heritage Program has resulted in the rediscovery of eight species, including this rock goldenrod (*Solidago rupestris*) which hadn't been documented in the state in 112 years | Photo by Wes Knapp



Photo by Jim Harris

Photo by Arthur Haines

### NEEDLES IN A HAYSTACK

LEFT - The government of the Northwest Territories believes there may be as few as 15-20,000 hairy braya (*Braya pilosa*) plants left in existence: a new plan, developed with data from the NatureServe Network, brings new hope to the fate of this plant.

RIGHT - The Saskatchewan Conservation Data Centre documented the occurrence of daisy-leaved Moonwort (*Botrychium matricariifolium*) in Saskatchewan for the first time.

### NEW NAMESAKE

NatureServe Network Program Biologist Bruce Bennett, of the Yukon Conservation Data Centre, has a new flower to his name - after his discovery of it, the *Draba brucebennettii* has been officially entered into the botany books.



Photos by Jim Harris

### CONSERVATION CLUES

Fieldwork by the Atlantic Canada Conservation Data Centre (AC CDC) along New Brunswick's eastern shore, documented 21 new occurrences of a poorly understood spider wasp species, known only by its scientific name *Ceropales bipunctata*.



Photos by John Klymko

### INTO THE DEPTHS

Milo Pyne of NatureServe, Dusty Pate of the National Park Service, Erin Hoy and Stephanie Sattler of USGS Upper Midwest Environmental Sciences Center access remote areas of Jean Lafitte National Historic Park and Preserve by airboat to build a map of its quickly-changing plant communities affected by sea-level rise.



Photos by Rick

### SURVEYING THE FUTURE

Antonio Tovar, Rocío Vásquez, Paola Matayoshi of the CDC de Perú survey forests and scrubland areas in the Andes of the Southern Peru to determine vulnerability to climate change and anthropogenic activities.



Photos by John Klymko

## FROM THE FIELD

NatureServe Network programs are on the frontlines everyday for biodiversity. Here are a few stories from the field.

“Shared standards and methods, combined with our database; can provide fast turnaround on conservation questions, like ‘which rare species should I look for along my state borders?’”

- WES KNAPP



The flower had not been seen in Maryland since Teddy Roosevelt was President of the United States. It was believed to be locally extinct. But thanks to the shared scientific information and expertise in the NatureServe Network, Wes Knapp, botanist with the NatureServe Network's Maryland Natural Heritage Program, knew what to look for and where.

Rock goldenrod is important for both the local ecosystem and for human health. Bees, butterflies, moths, and others visit goldenrod for nectar and pollen. Caterpillars eat the leaves and stems, and birds then prey on the insects goldenrod attracts. There is even a goldenrod spider that specializes in hiding on these plants.

Wes knew to look for the rock goldenrod because it was on a list, assembled by NatureServe botanist Amanda Treher, of 131 species that occurred in neighboring states and had a similar potential to be found in Maryland.

This collaboration resulted in the rediscovery of 8 species, including the rock goldenrod.



Little brown myotis  
(*Myotis lucifugus*)  
NatureServe Global Status:  
Vulnerable (G3)  
Formerly very abundant,  
now rapidly declining  
due to white-nose syndrome  
Photo by Michael Durham

# BATS In Decline

## Worldwide Bat Species

Threatened **171**  
Endangered **70**  
Extinct **4**



### NatureServe Network Programs Discover Bat Outside of Range, New to Minnesota and Wisconsin

A single female evening bat (*Nycticeius humeralis*), historically found south of central Iowa, was unexpectedly caught near Minneapolis, MN in early July. On a separate project in Rock County, WI, about 160 individuals were sighted during June and July.

During two recent projects monitoring for forest bats, research teams with Minnesota Department of Natural Resources (MDNR) and Wisconsin Department of Natural Resources made these exciting independent discoveries. The Minnesota team's lead wildlife biologist and NatureServe Network member, Rich Baker, told NatureServe about their find in a recent Q&A.

Read the full interview at  
[www.natureserve.org/news-and-events/stories](http://www.natureserve.org/news-and-events/stories)



## MAJOR THREATS TO BATS



Gray myotis (*Myotis grisescens*)  
NatureServe Global Status:  
Apparently Secure (G4)  
Vulnerable to massive mortality  
from white-nose syndrome  
Photo by J. Scott Altenbach

### HABITAT DESTRUCTION ▶

Bats are losing habitat due to deforestation, urbanization and incompatible agricultural practices



### WIND TURBINES ▶

Strategic placement and altering turbine operations can reduce bat fatalities with minimal loss in energy production

### WHITE-NOSE SYNDROME ▶

Caused by fungal species  
*Pseudogymnoascus destructans*



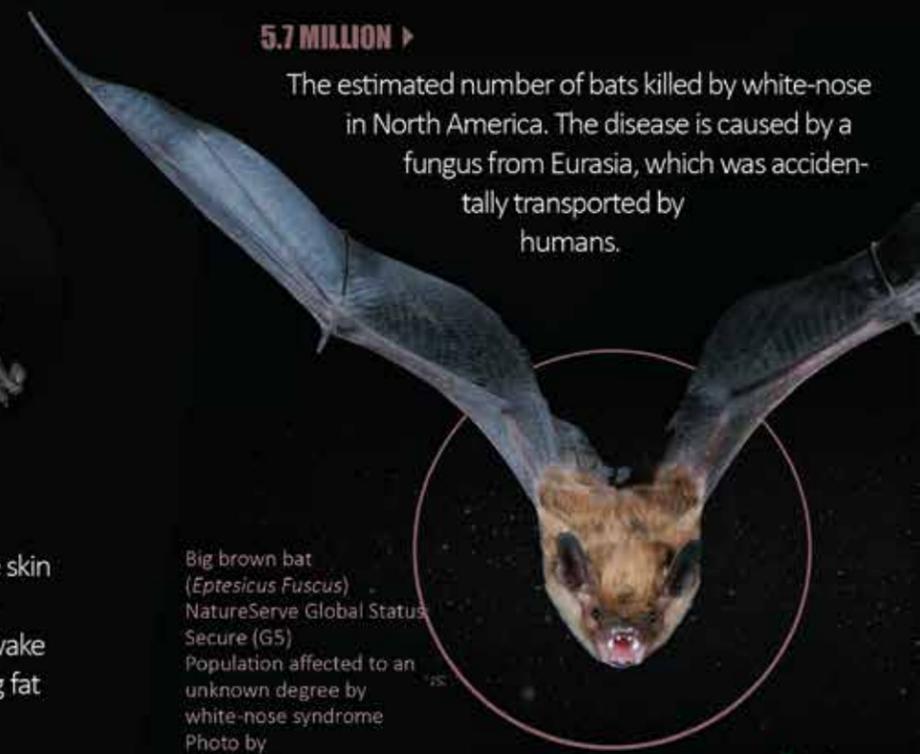
### 5.7 MILLION ▶

The estimated number of bats killed by white-nose in North America. The disease is caused by a fungus from Eurasia, which was accidentally transported by humans.

### THE SYMPTOMS ▶

Once afflicted the fungus invades the skin tissues on their faces and wings. The disease causes hibernating bats to awake repeatedly during the winter; burning fat reserves and leading to mortality.

Big brown bat  
(*Eptesicus fuscus*)  
NatureServe Global Status:  
Secure (G5)  
Population affected to an  
unknown degree by  
white-nose syndrome  
Photo by  
Bruce D. Taubert



[batcon.org](http://batcon.org)  
**BAT CONSERVATION  
INTERNATIONAL**



Special thanks to BCI  
for information and images  
Learn how to help at  
[www.batcon.org](http://www.batcon.org)



## YOUR PASSION, OUR

# SCIENCE

Discovering species in the wild is not just for scientists! In October, Nearly 100 volunteers - naturalists, students, kids, parents, and community members - spent a day exploring Brumley Forest Nature Preserve with scientists. How did they help? They documented nearly 200 different species, information that will inform conservation for many years to come.

The Brumley BioBlitz—a one-day bonanza of exploration to find, photograph, and document as many plants and animals as possible in the 613-acre Brumley Forest Nature Preserve—was organized by NatureServe and Triangle Land Conservancy to harness the passion of the local community to inventory the plant and animal species hidden in this special place.

**ABOVE:** Marbled Salamander (*Ambystoma opacum*) caught during the Brumley BioBlitz  
NatureServe Status: Secure (G5)  
Image by Caroline Gilmore

Beginning with a sunrise bird walk, over 400 observations of nearly 200 species were made and documented using iNaturalist throughout the day. Children engaged through educational games, local experts held demonstrations and volunteers explored the pond, wetland area, and wooded trails in the park.

The information collected will guide Triangle Land Conservancy's management plans for the park's future. Brumley Forest is slated to open Spring of 2017 and will become a treasured location for both recreation and conservation.

"Knowing what lives here helps us take care of the land so future generations can continue to uncover its unique natural gems," said Sandy Sweitzer, Executive

Director at the Triangle Land Conservancy. "The information collected during the BioBlitz allows us to better understand Brumley Forest and its role in the region."

The data can also help inform scientists at the North Carolina Heritage Program—NatureServe's member program in the state—who are responsible for tracking and managing information on all rare plants and animals in North Carolina.

Many thanks to our BioBlitz sponsors: Duke Energy Learning Outside, Syngenta, and The Fresh Market

Read the full story at  
[www.natureserve.org/news-and-events/stories](http://www.natureserve.org/news-and-events/stories)



Images from the  
Brumley BioBlitz by  
Caroline Gilmore



## NATURESERVE INNOVATES

The NatureServe Network's data is widely used - add tools that innovate applied conservation and you start to see the power of the network.

### UNITING AROUND THE CHESAPEAKE



Visit [LandScope.org](http://LandScope.org) to get started

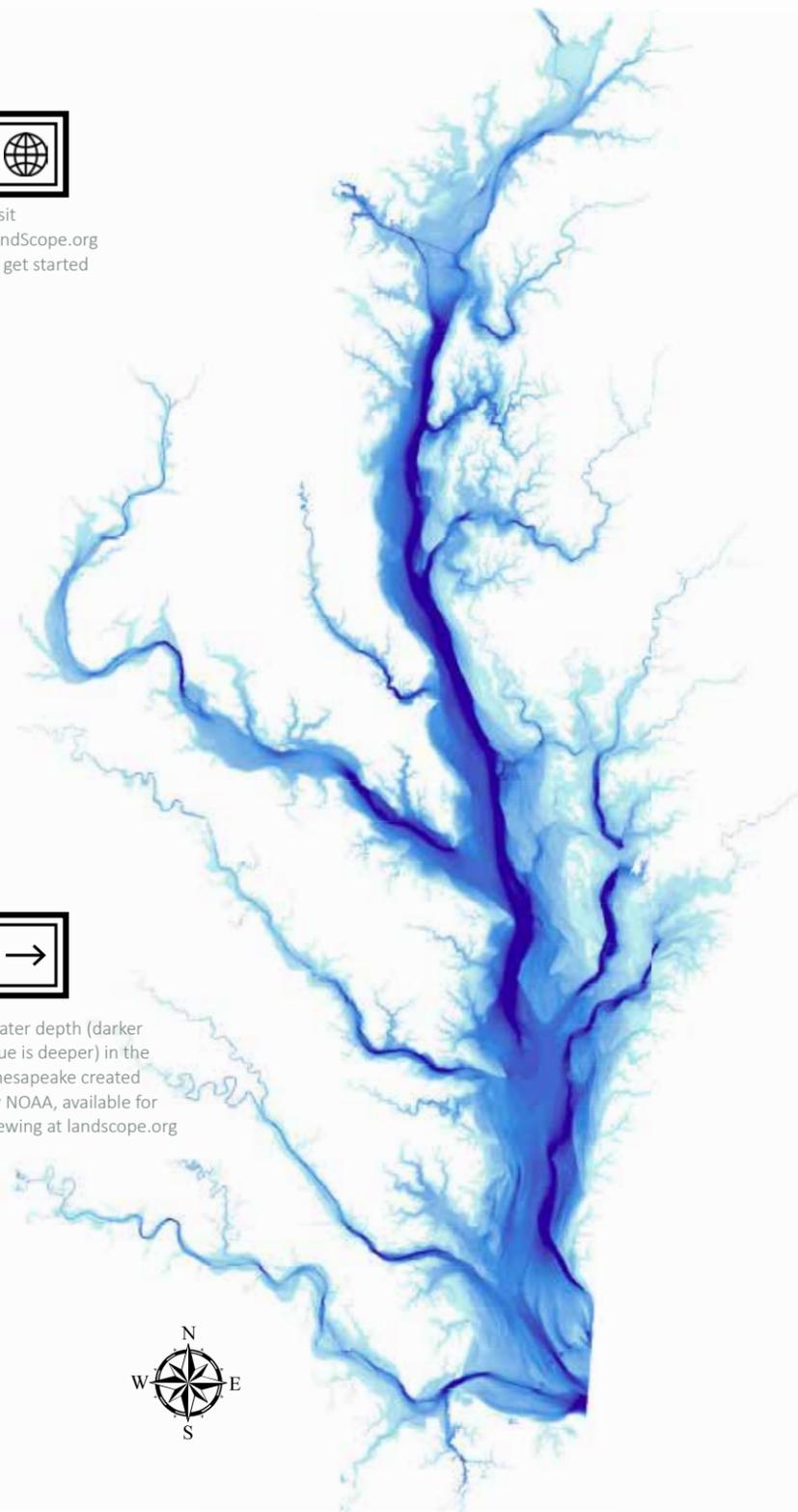
As a geographer at U.S. Geological Survey Chesapeake Bay Program Office, Renee Thompson is focused on conserving and preserving those areas that the Bay Watershed states have identified as high value or ecologically significant. Using LandScope Chesapeake to visualize the healthy watersheds and comparing them with the protected lands data, she gets an idea of areas she and her team may want to begin targeting for more detailed threat analysis. "This service saves me time... with all the built-in map reference layers it is even easier to visualize and answer a number of conservation related questions."

As a formal collaboration between NatureServe, Chesapeake watershed states, the National Park Service (NPS), and U.S. Geological Survey (USGS), LandScope Chesapeake supports professionals like Renee, as well as larger collaborations among conservation partners. Together this achieves a publicly accessible, watershed-wide land conservation priority system.

LandScope took strides in 2015-2016. In the Chesapeake Bay Watershed alone over 60 map layers were updated or added including a Resilience to Climate Change layer produced by USGS that spans the Northeast. There was also incredible progress made on the reporting tool. Users can now use the map to find out what land trusts are working in the counties or watersheds around them.



Water depth (darker blue is deeper) in the Chesapeake created by NOAA, available for viewing at [landscape.org](http://landscape.org)



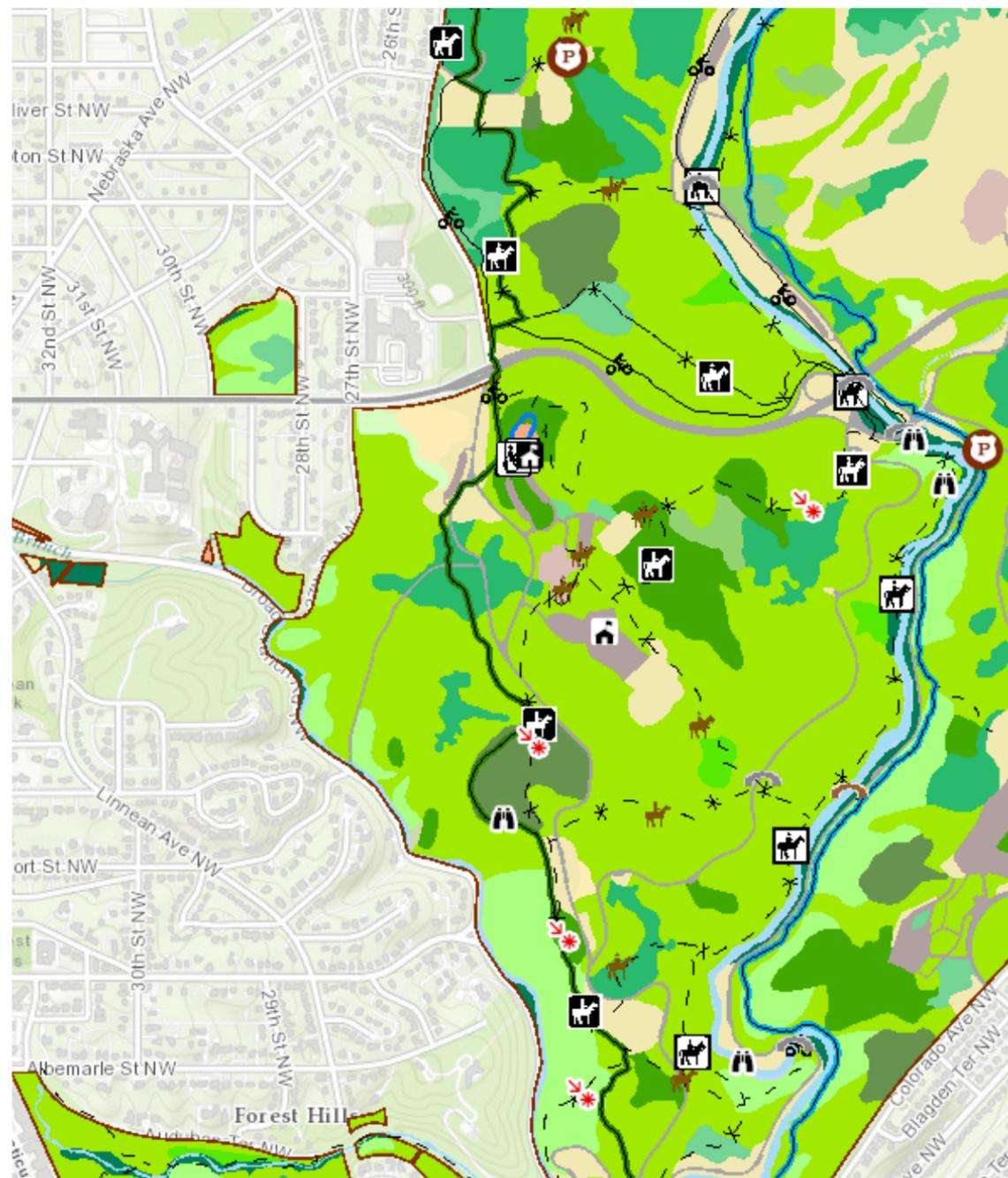
### SEE THE WORLD THROUGH THE EYES OF A NATURALIST

Take a stroll through Rock Creek Park, nearly 1,800 acres that twist through the heart of our nation's capital. Stop for a breather at Picnic Area 16 and scan the panorama offered by one of the country's oldest national parks. Head to the nearest hilltop—and here, hugging the steep rocky slopes, you'll see the distinctive, twisted dark stems of mountain laurel crowding underneath the canopy of oaks and American beech.

Sound like a great day? Explore Natural Communities (ENC) is now available as your pocket naturalist- a walk-through tour of the natural world that surrounds you at Rock Creek Park, soon to expand to more parks in the National Capital Region.



Map of natural communities at Rock Creek Park created by NatureServe and National Park Service available at [explorenaturalcommunities.org](http://explorenaturalcommunities.org)



Find mobile accessible interactive maps, build hikes, and find markers for the interactive tour at [explorenaturalcommunities.org](http://explorenaturalcommunities.org)



## The fight to protect the biodiversity of our planet is a global one

The Biodiversity Indicators Dashboard is now live. At [dashboard.natureserve.org](http://dashboard.natureserve.org) you will access a groundbreaking international data collaboration - the single location for tracking how countries are working toward their biodiversity conservation goals.

How successful are our efforts to conserve biodiversity? Increasingly, we need to measure how well our actions achieve their goals. The Biodiversity Indicators Dashboard unites diverse metrics that chart progress towards the Convention on Biological Diversity's "Aichi Biodiversity Targets" (agreed-upon biodiversity targets for each country).

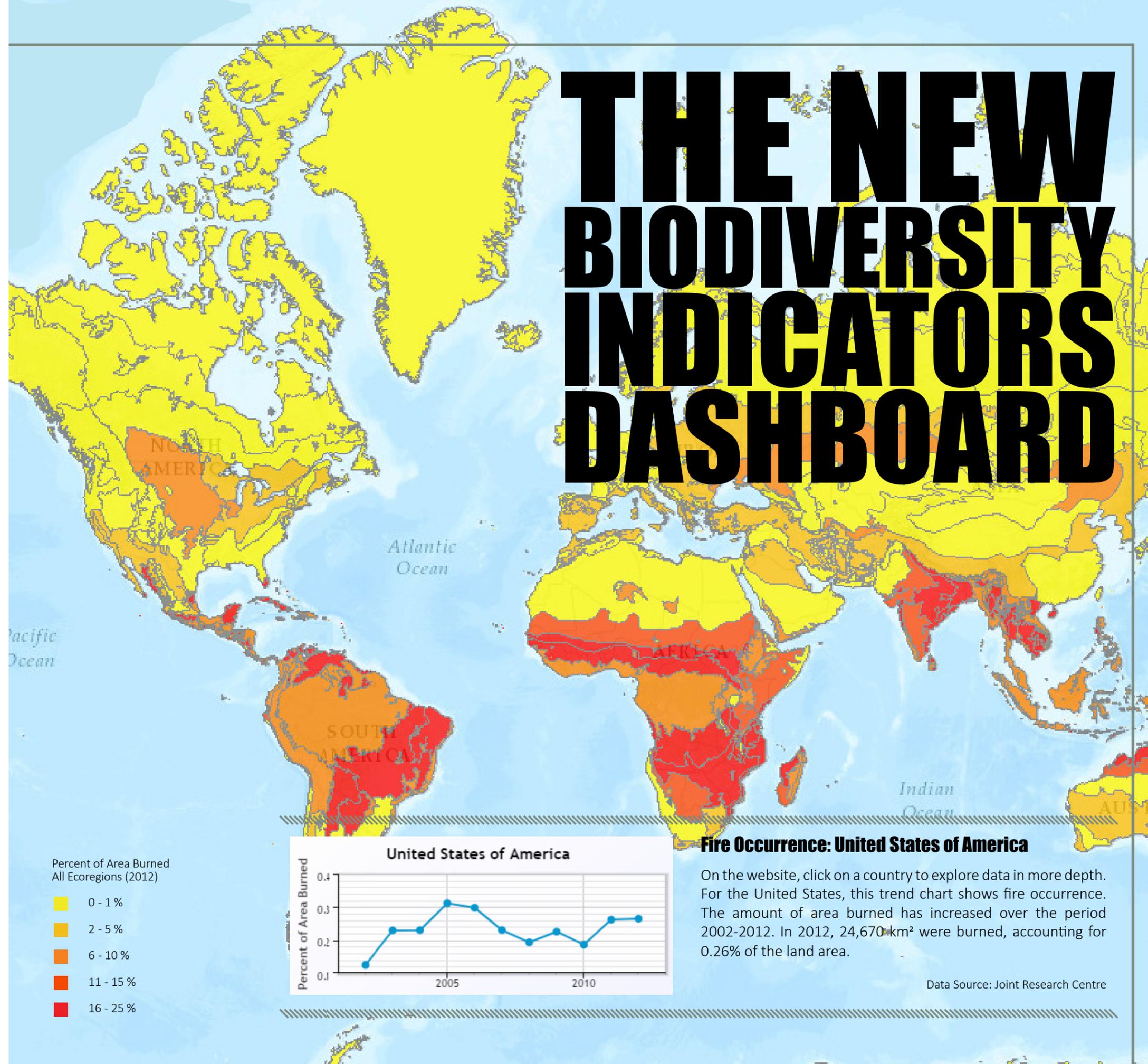
This new resource allows users to measure, visualize, and communicate environmental trends like how fast forests are being lost in a given river basin, as well as consider the effects of conservation actions like the increase of protected area coverage of Key Biodiversity Areas. With these data, users then track progress toward global conservation goals, easily monitor and report progress nationally, and make informed outcome-based policy decisions for sustaining biodiversity.

In March 2016, NatureServe staff attended a meeting in Ispra, Italy European Commission Joint Research Centre, the Biodiversity Indicators Partnership, UNEP-WCMC, IUCN, and others to collaborate more closely on the development and visualization of biodiversity indicators. This resulted in the incorporation of a new indicator for trends in area burned each year. This map is now available on the site and is shown here as the background map.

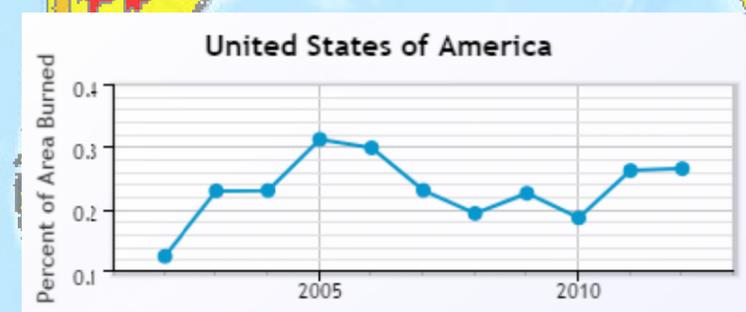
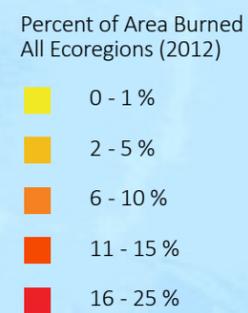


Get Started at:  
[dashboard.natureserve.org](http://dashboard.natureserve.org)

The Biodiversity Indicators Dashboard is made possible with support from the John D. and Catherine T. MacArthur Foundation, and with the collaboration of our partners, including The ASEAN Centre for Biodiversity, Biodiversity Indicators Partnership, BirdLife International, the European Commission, GBIF, IUCN, and UNEP-WCMC



# THE NEW BIODIVERSITY INDICATORS DASHBOARD



### Fire Occurrence: United States of America

On the website, click on a country to explore data in more depth. For the United States, this trend chart shows fire occurrence. The amount of area burned has increased over the period 2002-2012. In 2012, 24,670 km<sup>2</sup> were burned, accounting for 0.26% of the land area.

Data Source: Joint Research Centre

## NATURESERVE CONSERVES

At the end of the day, we have one major goal - to conserve biodiversity. We are the starting point, the hard facts, and the vital tools that lead to conservation.



# HOME SWEET HOME



The NatureServe Network is using scientific data to assist the safe relocation of burrowing owls in order to mitigate harm to this federally protected species.

In Florida, for example, Norman Hegedus, Airport Manager at Miami International has figured out a way to safely accommodate the 15 or so owls currently living by the busy runway.

Less than 12 inches tall, the charismatic burrowing owl can be found making its home in burrows across open grasslands, rangelands, agriculture fields and prairies across western North America and south to Patagonia in southern South America. However, in the last century, these nesting habitats have come under threat from human disturbance which has led to the species' decline.

The data collected on the owl's habitat by the Network program has been critical in supporting passive relocation and the construction of artificial burrows that are safe from human disturbance.

According to Sabra Tonn, Program Supervisor for the Arizona Heritage Data Management System at the Arizona Game and Fish Department, one approach to mitigating harm is to relocate the birds. "We've seen the burrowing owl successfully relocate to artificial burrows, abandoned animal burrows, say of a tortoise, and to more unusual places." Some of these "unusual places" include baseball fields, golf courses and even airport runways.

These data may also inform the location of future development. "If we can properly show the areas where the owls are making homes, there's a better chance that commercial developers and other real estate projects may move to a non-threatening location," said Tonn.



Read the full story at [www.natureserve.org/news-and-events/stories](http://www.natureserve.org/news-and-events/stories)



Burrowing Owl  
(*Athene cunicularia*)  
NatureServe status G4-  
Apparently Secure  
Photo by Matthew Paulson



## PROTECTING PUERTO RICO

Puerto Rico's Protected Areas Conservation Action Team (PA-CAT), celebrated the announcement that Puerto Rico has achieved protection of 16% of its territory. The decisions about which lands to protect were based on sound science from the NatureServe Network.

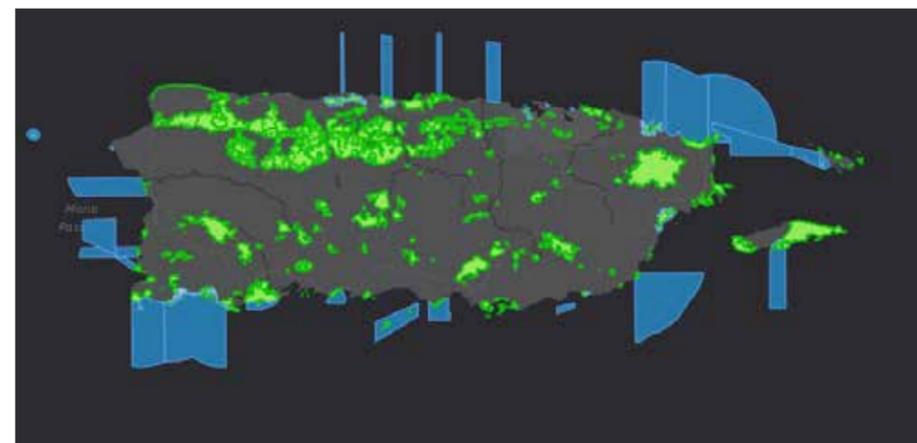
Para La Naturaleza, a non-profit conservation organization and member of the PA-CAT, worked with NatureServe to develop a balanced approach to Puerto Rico's national land use plan, which helps to conserve iconic Puerto Rican species like coquí tree frogs and the Puerto Rican parrot. NatureServe helped them evaluate different scenarios of conflicts in land use, identify how well the plan would conserve biodiversity and where key conflicts might remain.

Fernando Lloveras San Miguel, President of Para La Naturaleza celebrated this "as a major step in our mission to achieve the protection of 33 percent of our territory for 2033. Our commitment is to keep moving us in this direction to protect the vital ecosystems that Puerto Rico needs to survive, while we strengthen our position as a destination for nature."

# Puerto Rico protects 16% of its territory



The Puerto Rican rock frog (*Eleutherodactylus cooki*) has been federally listed as a threatened species in the U.S. | Photo by USFWS



Protected Areas  
■ Marine  
■ Terrestrial

This map shows the protected areas in Puerto Rico now making up 16% of its territory



## A ONCE COMMON SPECIES IN PERIL



The rusty-patched bumble bee (*Bombus affinis*) has been federally listed as an endangered species in the U.S., reflecting its high degree of imperilment and NatureServe G1 - Critically Imperiled rank | Photo by USGS

The NatureServe Network has worked diligently to track the rusty-patched bumble bee across its range in eastern and central North America. Bearing witness to one of the most dramatic species declines in recorded history, NatureServe assessed the species as G1- Critically Imperiled.

NatureServe scientists have found that what was once was a very widespread bumble bee has suffered a catastrophic decline that started in the late 1990s. The decline, in numbers and area of occupancy, has almost certainly been over 99% and reduction in range extent around 90% over a period of less than a decade.

The rusty-patched bumble bee may be well on the way to extinction, perhaps within the current decade, but other outcomes are possible. With information from the NatureServe Network, the species has been federally listed and is now protected under the U.S. Endangered Species Act as of March 2017. Listing is just the first step. Swift and intense conservation actions are needed to save this species and related bumble bees, some of our most important pollinators, from extinction.

## SHARING A COMMON LANGUAGE

Data from a single jurisdiction paints only part of the picture about most species and ecological communities. Training people in the use of standards allows NatureServe to combine biodiversity data sets across boundaries.

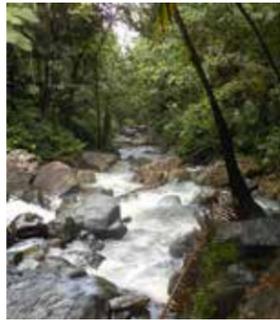


## CORE METHODOLOGY TRAINING

It is a warm, sunny day in April, and two white vans filled with ecologists, botanists, zoologists, GIS specialists, data managers, and other conservation professionals head to the Maryland side of Great Falls National Park. The site on Cabin John Island is a floodplain forest home to a unique mix of species including the vulnerable buttercup scorpionweed (*Phacelia covillei*) and the beautiful white trout-lily (*Erythronium albidum*). This group is attending the first day of the 2016 Core Methodology Training (CMT) - a training session that has been offered 122 times since 1974. The trainees are learning how critical it is to understand NatureServe methodology when observing and collecting information in the field.

Over the past 40 years, NatureServe has developed, and refined, the methods that inform how species and ecosystems are tracked using Biotics 5, a spatially-based data management system, so that the data are comparable across jurisdictional boundaries and create information meaningful to conservation decision-makers. Our rigorous, scientifically-based methodology is the reason our data are the most widely used dataset on species and ecosystems for the U.S. and Canada.

Participants get hands-on experience in the field at the Maryland side of Great Falls Park



## BIODIVERSITY WITHOUT BOUNDARIES

In April, NatureServe held the Biodiversity Without Boundaries (BWB) 2016 conference in the biodiversity-rich, abundant, and beautiful Puerto Rico. In collaboration with Puerto Rico Network Partners - the Puerto Rico Department of Environmental and Natural Resources (DRNA) and the leading environmental and educational nonprofit Para la Naturaleza - the NatureServe Network's annual conference convened hundreds of great minds for a week of plenaries, symposia, workshops, panels, presentations, and field sessions. NatureServe's 80+ Network Programs, as well as our partners from federal and state agencies, corporations, and other conservation-focused institutions and enthusiasts came together to discuss conservation challenges, celebrate successes, collaborate on new initiatives, share innovations, and design the future.



Photos from BWB2016 in San Juan, Puerto Rico and El Yunque National Forest

## A COURSE OF ACTION FOR MANGROVES

Mangrove forests are critically important ecosystems. These forests, found in coastal regions of Latin America and the Caribbean, provide habitat to a wide diversity of fish, crab, shrimp, and mollusk species, and provide food for thousands of coastal communities. Mangroves also serve as a natural barrier against extreme weather events, are one of the most efficient ecosystems for carbon sequestration, and have high timber potential. Despite laws that protect mangroves in Latin America and the Caribbean, these forests are threatened by human activities that have resulted in drastic declines in fisheries, loss of water quality, and have made communities more vulnerable to climate change.

Enter Pronatura Veracruz A.C. This NatureServe Network Program organizes a 4-month Mangrove Ecological Restoration and Forest Management Course. Attendees exchange experiences and skills from across the wider network, many of whom reside in different regions, yet experience similar environmental problems. Topics of discussion include strategies for community organization and training, management techniques, and best practices for operating projects across sectors. The course also includes field trips to experimental sites at Alvarado Lagoon System in Veracruz, Mexico, where the attendees learn foundational practices in mangrove ecological restoration and forestry. Awards of completion are given by the Institute of Ecology A.C.



Photos from the Mangrove Ecological Restoration and Forest Management Course in Veracruz, Mexico

# Our Supporters

Reflects full amount for all active and secured projects during 18-month timeframe, July 1, 2015- December 31, 2016

<b>\$1,000,000+</b> Esri* FIFRA Endangered Species Task Force Microsoft National Science Foundation Philanthropies* The John D. and Catherine T. MacArthur Foundation U.S. Bureau of Land Management U.S. National Park Service	Environmental Protection Sustainable Forestry Initiative University of Missouri U.S. Department of Defense U.S. Fish and Wildlife Service	Environmental Defense Fund James and Yuko Brumm Land Trust Alliance Mary Ann Lawler and Neal Sigmon Urban Lehner and Nancy Leonard The Curtis and Edith Munson Foundation Kimberly Nelson and Kevin Cadden Parks Canada Pfizer Pikes Peak Area Council of Governments James Douglas Ripley S.C. Johnson John and Virginia Sall State of Arkansas Christopher and Catherine Stroup Wolf Creek Foundation	Ben Goodkind and Nancy Payne Goldman Sachs Paul Hagen David Harrison Carolyn Hendricks Joel and Christine Huber Sherry Huber Jospeh and Embry Howell Keller Benefit Services Edward Kfoury Bert and Mary Klein Thomas Krakauer Christopher Ludwig Macy's Mary Kay, Inc. Gregory and Vibha Miller Foundation for the Americas John Morgridge Steve and Linda Nash Network for Good Orie and Elinor Loucks David and Cary Paynter Anthony Prestera Henry and Peggy Sharpe William and Jocelyn Sladen John and Anna Thron Gary Waldron and Carol Foster Waste Management Georgia Welles Weyerhaeuser Jonathan Wilfong, Jr. and Wendy Baker Kenneth and Dorothy Woodcock Henry Woolsey	Brown Chris Burke Howard and Elizabeth Burke Kiersten Carlson Joseph and Mary Laurie Cece Stephen and Susan Chapmin Nancy Chartier Albert and Erin Chen Michael Clausell Douglas and Katheryn Cochran Joel Cohen Nicholas Conrad Carmen Converse James and Chris Cowperthwait Edwin Crist Patrick Crist Richard and Mary Crouch Sean Curran Kathryn Heather Dall Robert Dana Kevin and Gwen Davis Ned and Sherry Dayton Denver Public Schools Ralph Dewalt Theodore DeWitt Molly Docherty Charles Dodge Donald Dott Shauna Dunham Earthshare Margot Ernst Dennis Figg Cary Floyd Jerry and Phyllis Franklin Joy Gaddy Lydia Garvey Gov. James Geringer Noah Greenwald Jessica Hamke and Sean Breen Linda Hardy Cloyce Hedge Catherine and Nancy Heller Jeffrey Herter Christopher Hitt Marie Hoguet Leslie Honey Phillip Hoose Johanna Howald Jospeh and Embry Howell IBM Corporation iGive Holdings LLC David Inouye Elizabeth Robin Jacobs Vinish Jain and Anna Hahn Frances James Carmen Josse JustGive Alice Kagan	James Kagan Donald Kent David Kinnamon John Kirsch Brian Klatt Robert and Celeste Kling Aaron Kornbluth Lisa Kruse Fredric Kutner Lynn Kutner Ery Largay Jeanette Largue Richard LeBlond Betty Lemon Robert and Dee Leggett David and Evelyne Lennette David Levi and Nancy Ranney Michael Lipford Barbara Lipscomb Jen Lowry Thomas Lovejoy Julie Lundgren Annarie Lyles Frank and Gigi Lyons Karen MacAulay Christopher Mangels Aaron Marcus Kathleen Maybury David Mayo John and Lucille Mayo Katherine McCarthy William McClintock Michael McCullough Barbara McFadyen William McFarland Marla McIntosh Patrick McIntyre Frank McLean Patricia Mehlhop David Mehlman Janice Miller Julie Moore Diana Morse Deirdre Neilen James Nelson Carl Nordman Gordon Orians Brian Orland Margaret Ormes Mary Clark Osterhaus Gregg and Cynthia Pacchiana Eliot Paine Todd Parks Steven Parren Sam and Linda Pearsall Elizabeth Mary Peck Edward Penhoet Michael Pipp Robert Popp Rebecca Price Milo Pyne Robert Rainer Leah Ramsay Sonya Reed Donna Reynolds	
<b>\$500,000+</b> Pennsylvania Bureau of Forestry U.S. Forest Service	<b>\$50,000+</b> Defenders of Wildlife Ecological Society of America JRS Biodiversity Foundation Massachusetts Institute of Technology Missouri Department of Conservation Mitsubishi Corporation Mitsubishi Corporation Foundation for the Americas State of Tennessee U.S. Army Environmental Command Center	<b>\$5,000+</b> Sayles Braga Duke Energy Russell Faucett Gary Giglio Hancock Forest Management Institute of International Education Keith Loring Monsanto The Curtis & Edith Munson Foundation Peter O'Hagan Candace Taylor-Anderson	<b>\$0-999</b> Robert Abbott Kenneth Albert Cliff Alton and Molly Dougherty Jorge Romero Alvarez AmazonSmile Craig Anderson Michael Andrews Madge Baker Ball Corporation Douglas Barker Tom Beauvais Denny Beck Allen Belden Jordan and Lisa Bender Deborah Berman Weiming Bian Terri Boykin Amy Breden Janet Breden Nancy Breden Laurie Brown Randy and Karen	<b>\$100,000+</b> Alcoa Foundation Andrew Kaiser and Annmarie McAninch Arizona Game and Fish Department National Fish and Wildlife Foundation NatureServe Canada Nebraska Game & Parks Commission Mississippi State University Natural Resources Conservation Service Noblis, Inc. Perpetual Charitable Trust Regina Bauer Frankenberg Foundation Richard and Nancy Raines Sarah K. DeCoizart State of New Jersey, Dept. of	<b>\$25,000+</b> Bobolink Foundation Chevron Enviva Benjamin Hammett Robert and Laura Hoguet Lawrence Master Marcia Angle and Mark Trustin Massachusetts Institute of Technology Olympic National Marine Sanctuary The Ecological Society of America Northwest Indian Fisheries Commission University of New Mexico Virginia Dept. of Conservation & Recreation Santa Barbara Botanic Garden Walton Family Foundation	<b>\$1,000+</b> Rachel Ascher Robert Alvo Ted and Calvert Armbrecht BABINA Bayer CropScience Reinier and Nancy Beeuwkes Christopher Boebel and Glenna Eaves Mark Brodkey Aurelio Castro Karen Coda Drs. Holly Doremus and Gordon Anthon Glenn and Karen Doshay Ecological Society of America Evoke Consulting Florida State University General Motors Geographic Mapping Technologies

# Financials

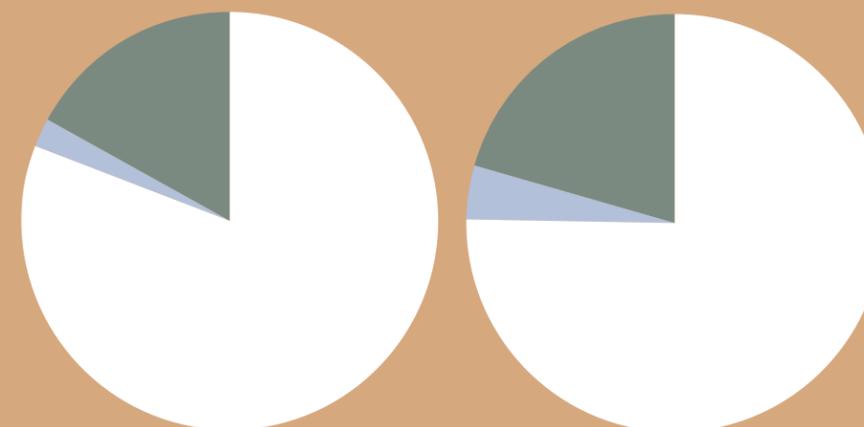
Reflects 12-month timeframe, July 1, 2015- June 30, 2016

Martha Riecks  
Robert Riordan  
Eleanor Rizzo  
Ellen Rizzo  
Paul Robie and Karen Young  
Derrick and Julia Robinson  
Gordon Rodda and Renee Rondeau  
George Rodenhausen  
Ricardo Romanini  
Demian Rybock  
Todd Sadow  
Lauren Sawyer  
Lynn Scarlett  
Konrad Schmidt  
Keith Schulz  
Richard Schneider  
David Schindler  
Franklin Schwing  
Cameron Scott  
Lori Scott  
Dorina Sepulveda  
Sharlene Shaikh  
Sandra Simmons  
Joanna Smith  
Thomas Smith  
Stephen Snow  
Derek Sowers  
Joan Spence  
SSi Consulting  
John Steffenson  
Bruce Stein  
Janet Stein  
Robert Stevenson  
Hannah Sukonick  
Hilary Swain  
Jil Swearingen  
The Pew Charitable Trusts  
James Thorsell  
TisBest Philanthropy  
Tobi.com  
Adele Tomaino  
Sabra Tonn  
Christopher Tracey  
Amanda Treher  
Gene and Charlyne Tucker  
Rita Varley  
Nancy Vehrs  
James Voss  
Andrew and Carolyn Voter  
Cameron Vowell  
David Wake  
Jeffrey Wagner  
JT van der Wal  
Alan Weakley  
Whitney Weber  
Warren Wegner  
Cornelia White  
Peter White  
Rickie White  
Cathy Williams  
Irvine Wilson  
Lindsey Wise  
Mark and Rachel Wryan  
Bruce Young  
Jean Young  
Steve Young

Revenues	
Charitable Contributions*	\$1,384,562
Grants, Contracts, and Program Fees	
Government	\$4,624,244
Non-government	\$2,071,254
Registrations and Other Income**	\$183,242
Total Operating Revenue	\$8,263,302
Grants, Contracts, and Program Fees	81.0% \$6,695,498
Charitable Contributions	16.8% \$1,384,562
Registration and Other	2.2% \$183,242
Total Operating Revenue	100.0% \$8,263,302

Revenues  
Grants, Contracts, and Program Fees 81.0%  
Charitable Contributions 16.8%  
Registration and Other 2.2%

Expenses  
Program Activities 75.5%  
General and Administrative 20.4%  
Fundraising 4.1%



Expenses	
Program Activities	\$7,042,797
Scientific Data and Methods	\$2,250,906
Conservation Products and Services	\$2,001,224
Technology Research and Development	\$1,817,097
Network Capacity Building	\$500,260
Program Development	\$473,310
Fundraising	\$383,760
General and Administrative	\$1,907,292
Total Operating Expenses	\$9,333,849
Total Expenses	\$9,333,849
Program Activities	75.5% \$7,042,797
Fundraising	4.1% \$383,760
General and Administrative	20.4% \$1,907,292
Total Expenses	100.0% \$9,333,849



\*Charitable Contributions includes individual donors, corporate sponsors, and grants from foundations.  
\*\*Other income includes membership dues, rental income, investment income, and royalties.

\*In kind Support

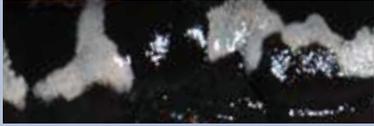
CAN YOU GUESS  
THE SPECIES?



Pg. 5



Pg. 7



Pg. 9



Pg. 15



Pg. 17



Burrowing Owl  
(*Athene cunicularia*)  
NatureServe status G4  
Apparently Secure  
Photo By Bart Van Dorp