

BULLETIN

— WINTER 2019 – 2020 —



In this issue: The Birds are Telling us it's Time to Make a Change.

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WINTER 2019 – 2020

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Two recent studies—one looking back and one looking forward—come to the same conclusion. Bird populations are decreasing, and will continue to decrease if we don't do something about it now.

Cover Photo of Wood Thrush, image by Will Stuart, courtesy of National Audubon Society.



The Bulletin is published four times a year by Audubon Society of Western Pennsylvania, 614 Dorseyville Road, Pittsburgh PA 15238-1618. Address correspondence to Rachel Handel, Editor. The editor reserves the right to edit or reject all copy. The Bulletin is received as a membership benefit. Nonmember subscriptions are \$9.00 per year. For membership, subscriptions, or address change, contact ASWP. Printed on recycled paper.



This Audubon View

This past fall we saw the release of two major reports on birds. In late September, Cornell Lab of Ornithology, American Bird Conservancy, and several other collaborators released *Decline of the North American avifauna* (known to many as the 3 Billion Birds Report) which documents a net loss of almost 29% of the total population of North America birds since 1970. And in early October, National Audubon Society released *Survival by Degrees: 389 Bird Species on the Brink*, an update to their ground-breaking Birds and Climate Change report from 2014. Together they paint a discouraging picture of what has happened to bird populations over the past 50 years—and the potential worse fate that might lie ahead.



We'll explore the methodology and specific findings more deeply elsewhere in this edition of The Bulletin, but for me, three things are very clear: **Birds are telling us something.** There is no other way to interpret these findings other than as a cry for help and as a warning. Birds have always been one of the best bioindicators and they are giving us a warning that things are not well in the environment around us. **It's not too late.** While we may have lost 3 Billion Birds, some bird types have shown improvement. Not coincidentally, it is those for which there have been concerted and vigorous conservation efforts such as Bald Eagles, Peregrine Falcons, California Condors, and other birds of prey, that have shown improvements. The climate change report from National Audubon details only what could happen to bird populations if we fail to keep global climate change under 1.5 degrees C. **We need to take action now.** The pace of decline is not something we can ignore or hope that some future technology will resolve. Technologies already exists to help address many of the causes of climate change—what is missing is the leadership and willingness to employ them. Worse, existing protections that have helped to improve our air and water, and protect our endangered species, are being gutted. We need to demand that forceful action be taken to protect our birds now and provide for a healthy future for them—and for us.

How can you help? We've combined the "Seven Simple Actions" outlined by the 3 Billion Birds Report and the "Climate Action Guide" created by National Audubon Society on our website. There you will find actions you can take in your home, your yard, and your community to help birds today and in the future.

The birds are telling us something—it's time to listen and act.

—Jim

OUR RESERVES, NATIVE PLANT NURSERY, AND NATURE STORES

BEECHWOOD FARMS NATURE RESERVE

614 Dorseyville Road in Fox Chapel, Pittsburgh, PA 15238

- Audubon Nature Store & Native Plant Nursery

SUCCOP NATURE PARK

185 W. Airport Road in Penn Township, Butler, PA 16002

- Audubon Nature Store

TODD NATURE RESERVE

367 Kepple Road, Sarver, PA 16055

- Buffalo Creek Nature Center: 154 Monroe Road, Sarver, PA 16055
- Audubon Nature Store: 612 South Pike Road, Sarver, PA 16055



ACCESSIBILITY INFORMATION: For accessibility needs or questions about any of our sites, please contact Brian Shema at (412) 963-6100 or at bshema@aswp.org. For accessibility needs or questions about any of our programs, please contact Chris Kubiak at (412) 963-6100 or ckubiak@aswp.org. All other questions regarding accessibility or inclusion can be directed to Jim Bonner at (412) 963-6100 or jbonner@aswp.org.

New Study Shows **HUGE LOSS IN BIRD POPULATION**

NORTH AMERICA HAS LOST 3 BILLION BIRDS SINCE 1970

Maybe you've noticed while watching your favorite backyard feeder that birds are less numerous than they once were. Or your hikes in the spring are a little bit quieter than in the past.

According to a sobering new study released in September 2019 in the journal *Science*, it's not your imagination that there are less birds. They are declining at a precipitous rate and both common and rare species alike are impacted.

Nearly 3 billion (yes billion with a "B") fewer birds exist now in North America than in 1970. Almost 1 in 3 birds—or 29 percent—have vanished from the continent, dropping total bird populations from 10 billion in 1970 to 7 billion today.

This study looked at nearly 50 years of monitoring data collected by birders and citizen scientists alike, spanning across North America. These efforts include the North American Breeding Bird Survey (BBS) coordinated by the United States Geological Survey and the Canadian Wildlife Service, Audubon's Christmas Bird Count, Cornell's Project Feederwatch and eBird, as well as the joint citizen science program the Great Backyard Bird Count.

Many ASWP members and constituents have participated in these citizen science projects and have helped to contribute to this data set.

Researchers also compared this bird count data on the ground with Doppler radar data from 143 weather stations continent-wide, to track migrating birds at night. This weather radar network revealed a similarly steep decline in passage of migrating birds over a recent 10-year period (2007-2017).



These joint findings show that the loss of birds is widespread, and impacting both rare and common birds alike. While some of these species are found in remote locations, many are found right here in our own backyards in Western Pennsylvania. And the numbers paint a sobering picture of steep declines across many families of birds.

Numerous habitats and species have experienced tremendous losses, in particular migratory birds. Warblers, thrushes, and various shorebirds have declined substantially, while grassland species appear to have fared the worst. Some 700 million individual birds across 31 species, including Eastern Meadowlarks, have vanished since 1970, a 53 percent drop. Sparrows saw the largest drop of any group of birds. Nearly a quarter—750 million—have disappeared over the past five decades.

Even invasive species like European Starlings, which are common across a range of different habitats, experienced massive losses, with their populations declining 63 percent.

These steep declines are signaling an ecological crisis in progress. While the study does not look at the causes of the decline, we know that habitat loss, climate change, outdoor cats, and window strikes all play a key role in bird mortality.

Birds have an important role in ecosystem health by pollinating plants, dispersing seeds, and controlling pests. And like the "canary-in-the-coal mine" analogy, these birds' declines and losses are signaling to us that something is wrong in North America.

For more information, please visit aswp.org or 3BillionBirds.org.



SURVIVAL BY DEGREES:

389 Bird Species on the Brink

National Audubon Society released a report in October 2019 showing that two-thirds of North America's birds face significant challenges to their existence if temperatures increase by 3 degrees Celsius by the year 2100. The report, titled *Survival by Degrees: 389 Bird Species on the Brink*, is an update on Audubon's 2014 *Birds and Climate Change Report*, and looks at the impacts of bird species in North America under several future climate scenarios.

If you love birds, the results are sobering to say the least.

In this eye-opening report, scientists examined data for 604 North American species collected from over 140 million observations including citizen science records from Christmas Bird Counts, Project Feederwatch, and eBird. They were able to use these observations and overlap them with data on updated land use changes like deforestation, agriculture, and urbanization trends that were not available in the 2014 report.

The results show that an increasingly warmer world, due to human-induced climate change, will push 389, or two-thirds, of North America's bird species to the brink. Three degrees Celsius of warming by 2100 will cause our northern states to lose its iconic Loon by the end of the century, making their haunting calls over our boreal lakes a thing of the past.

The data shows numerous species that breed in the rapidly warming Arctic are highly vulnerable to extinction as their habitat disappears. The same fate would hold true for a majority of grassland birds, western forest birds, and over three-quarters of water birds.

But the threats to birds are not limited to species found elsewhere in the continent. Closer to home, the ethereal and flute-like song of the Wood Thrush would be gone from 60 percent of its range. Scarlet Tanagers—a species whose core range is found in Pennsylvania after a marathon migration from South America—would see its range contract within our Commonwealth.

As disheartening a future this study paints, there is still time for action to limit the damage and help prevent the worst scenario for birds. If temperature rise is limited to 1.5 degrees, the majority of those disruptions and potential extinctions can be prevented. Moving our society to one powered by renewable energy, and an economy to one that's carbon neutral will provide a better future to both people and birds.

To see the impacts of the study to birds in your neck of the woods, visit aswp.org/pages/survival-by-degrees-report to access the report. There you can use a searchable database called the Birds and Climate Visualizer, which gives users a chance to see how climate change will impact the bird species they see in their own backyards.

Users can toggle between two scenarios—one in which the earth's temperatures rise by 1.5 degrees Celsius and another by 3 degrees Celsius—to see how big of an impact a few degrees will have on our local birds.

Winter

PROGRAM SCHEDULE



REGISTER FOR PROGRAMS ONLINE AT ASWP.ORG OR BY CALLING (412) 963-6100. SEE A LIST OF OUR LOCATIONS AND ADDRESSES AT THE BOTTOM OF PAGE 3.

Special Events

CHRISTMAS BIRD COUNTS

Join one of our ASWP Christmas Bird Counts! For a list of local count leaders, please visit www.aswp.org.

Buffalo Creek Valley (includes Todd Nature Reserve): December 14

Pittsburgh (includes Beechwood): December 28

South Butler (includes Succop Nature Park): January 4

Christmas Bird Count Dinner at Beechwood: Check aswp.org for day and time.

Christmas Bird Count Lunch, South Butler: January 11 at noon at Hardwood Cafe.

KIDS' CHRISTMAS BIRD COUNT

December 14, 10am–12pm / Buffalo Creek Nature Center

December 28, 10am–12pm / Beechwood Farms Nature Reserve

January 4, 10am–12pm / Succop Nature Park

Kids and parents are invited to participate in a family-friendly version of the Christmas Bird Count. Our naturalist will guide you. This event is appropriate for school-age and up. Children must be accompanied by a responsible adult. Advance registration is required. This event is free.

MAPLE MADNESS

March 21, 10am–1pm / Beechwood Farms Nature Reserve

March 28, 10am–1pm / Succop Nature Park

Last seating for pancake brunch is at 1:00 pm. Last guided hike leaves after the 1pm brunch group has finished their meal. Experience the sights, sounds, smells, and tastes of Maple Sugaring as you take a trip through the history and science of maple syrup. Enjoy a pancake brunch, too! Registration is required, with brunch seatings every 30 minutes. Last seating for pancake brunch is at 1pm. Last guided hike leaves after the 1 pm brunch group has finished their meal. Cost is \$6 per member, \$10 per nonmember.

GREAT PITTSBURGH EAGLE EGG HUNT

April 4, 11am–2pm / Beechwood Farms Nature Reserve

Celebrate the region's Bald Eagles at our annual egg hunt! We'll also have crafts, activities for all ages, and PixController will be onsite, too. Please note that the egg hunts are scheduled for 11am, 12pm, and 1pm. Bring your own bag to collect eggs! Parking at Fairview Elementary School with shuttles running to Beechwood every 10 minutes. Free!

Birding & Nature Hikes

BIRDS & MORE NATURALIST LED MORNING WALKS

All walks are free and start at 9am.

BFNR: Every Wednesday

SNP: Every Thursday

BCNC: Every Friday along the Butler-Freeport Trail (February through the end of March)

TNR: Every Friday (April to October)

WINTER WALKABOUT: SIGNS OF LIFE

February 8, 2–3:30pm / Beechwood, Succop & Buffalo Creek Nature Center

Even in the midst of winter the forest is teeming with life! Join a naturalist for the subtle and not-so-subtle signs of animal activity on the Reserve. Program is outside. Adults and families. Cost is \$6 per member, \$10 per nonmember.

PYMATUNING BIRD OUTING

March 28, 8am–12pm / Wildlife Learning Center in Pymatuning State Park

Pymatuning State Park represents one of the best places in Pennsylvania to observe migrating waterfowl and raptors like Bald Eagles. Participants will meet at the Wildlife Learning Center on the Linesville side of the park, just up from the spillway. Contact Chris Kubiak at ckubiak@aswp.org for more information. Free.

Audubon at Night

BIRD TRIVIA NIGHT AT FULL PINT BREWERY IN LAWRENCEVILLE

January 23, 7–9pm / Full Pint Brewery

So you think you know birds! Head to the Full Pint Brewery in Lawrenceville and put your bird knowledge to the test. Enjoy fellow birding enthusiasts as they answer bird trivia. Adults only. Cost is \$6 per member, \$10 per nonmember. Cost is for program only; participants are responsible for the cost of their food and drinks.

NIGHT CAMPFIRE AND HIKE

March 7, 7–8:30pm / Beechwood & Succop Nature Park

Enjoy a warm campfire, a story or two, and a hike under the stars. Cost is \$6 per member, \$10 per nonmember.

Preschool Programs

FLEDGLINGS: AGES 3–5

Jan. 9, Feb. 13, Mar. 12, Apr. 9, 10–11:15am / Beechwood
Jan. 14, Feb. 11, Mar. 10, Apr. 14, 10–11:15am / Succop Nature Park

Give your 3–5 year old a head start on a lifetime of loving the outdoors. Fledglings programs incorporate stories, a walk, and activities to introduce new and fun nature themes to young participants. Parent or caregiver must be present. Cost is \$4 per member; \$6 per nonmember.

January: Sensational Snow **March:** Down the Maple Trail
February: Run for Cover **April:** Dandelion Seed

Hands-on Programs

BIRDS AND CLIMATE CHANGE: AUDUBON'S SURVIVAL BY DEGREES REPORT

January 16, 7pm–8:30pm / Beechwood Farms Nature Reserve

Audubon's latest findings show that nearly two-thirds of North America's bird species are severely threatened by climate change. How will birds in North America be impacted? This talk will cover the findings of Audubon's updated 2019 Audubon's Survival by Degrees Report and the challenges facing bird species across the continent. Free.

CITIZEN SCIENCE: GREAT BACKYARD BIRD COUNT TRAINING*

February 1, 10am–11:30am / Beechwood, Succop & Todd

The Great Backyard Bird Count takes place Presidents day weekend and can be done anywhere there are wild birds. Get ready to count with this training reviewing common species and reporting procedures. Visit GBBC.org for details about the count. Great for scout leaders, parents, and others who want to learn about the count and get tips for getting their groups involved. This event is free!

HUMMERS @ HOME

February 8, 12–2pm / Beechwood, Succop & Todd

To live such high energy lifestyles, hummingbirds must sync their migration and nesting times with the flowering of nectar-bearing plants. Learn how climate change threatens to throw off this delicate balance, with unknown repercussions for hummingbirds. Free.

GREAT BACKYARD BIRD COUNT WALK*

February 15, 10am–12pm / Beechwood, Succop & Buffalo Creek

Join the ASWP naturalists for our annual Great Backyard Bird Count walk on Audubon's trails. Free!

PROJECT BUDBURST*

March 7, 12–2pm / Beechwood & Succop Nature Park
March 7, 2–4 pm / Todd Nature Store

Project BudBurst participants make careful observations of the timing of leafing, flowering, and fruiting phases of plants (plant phenophases) throughout the year. Spring, summer, fall, and winter phases are all valuable. Learn how scientists and educators can use the data to learn more about how plant species respond to changes in climate locally, regionally, and nationally. Free.

BUTTERFLY DRAWING ONE DAY WORKSHOP

April 11, 10:30am–2:30pm / Succop Nature Park

Work with basic shapes using value, line, color, texture, and more. Demonstrations will be done to help explain the process from start to finish. You'll have a choice of 3 references to work with using graphite in the morning and color in afternoon. See a supply list when you register. Cost is \$50 per member; \$75 per nonmember.

BIRD DRAWING OR PAINTING TWO DAY WORKSHOP

April 25 & May 20, 10:30am–3pm / Beechwood Farms Nature Reserve

Work with basic shapes using value, line, texture and more. Demonstrations of eyes, beaks, feet, and feathers will be done to help explain the process from start to finish. We'll use graphite for first week of the class. The second week project can be graphite, colored pencil, watercolor, or any other medium of choice. References will be available or bring three clear references then select one for your project. See a supply list when you register. Cost is \$150 per member; \$200 per nonmember.

*Citizen Science programs are offered for free through a generous grant from Dominion Foundation.

Volunteer with Us!

AUDUBON VOLUNTEER NATURALIST TRAINING

Six Mondays, March 23–April 27, 9:30am–2:30pm / Beechwood

Audubon Volunteer Naturalists lead small groups of school students on field trips on the trails at Beechwood Farms Nature Reserve, primarily spring and fall. This training will provide teaching techniques and basic natural history. This class will meet every Monday for six weeks March 23 through April 27. Sign up for the first session, March 23, to register for the series. Contact Scott, sdetwiler@aswp.org, for complete details about the Audubon Volunteer Naturalist program.

BEECHWOOD CONSERVATION CORPS

March 26, 6pm / Beechwood Farms Nature Reserve

Join us to learn about this exciting, new volunteer program! With support and training from ASWP staff, Beechwood Conservation Corps (BCC) volunteers will adopt sites to steward at BFNR. Participants will have the opportunity to learn and apply new skills while helping ASWP protect and improve habitat. For more information, contact Sarah Koenig, Conservation Director, at skoenig@aswp.org or (412) 963-6100.

AUDUBON EARTH DAY: DAY OF SERVICE TO THE PLANET

April 18, 9am–12pm / Beechwood, Succop & Todd

Roll up your sleeves and help ASWP on the Audubon Earth Day of Service.

We are inviting everyone to help celebrate with our Earth Day of Service, a morning of pitching in with friends and neighbors at each of our three locations to show some love to our little corner of the planet. Help us remove invasive species and return native plants and trees to the ecosystem, or help out on our trails. Help ASWP to beautify and improve our reserves and green spaces for our birds and local wildlife. Families and community groups encouraged to participate. Free.

Scout Programs

MAPLE FOR SCOUTS

March 14, 10am–12pm / Beechwood & Succop Nature Park

Experience the science and history of Maple Sugaring. Groups or individuals welcome; advance registration is required. Contact Scott Detwiler at (412) 963-6100 or sdetwiler@aswp.org to make your reservation. Cost is \$7.50 per scout.

SCOUT BADGE DAY

April 18, 10am–12pm / Beechwood Farms Nature Reserve

April 18, 12–2pm / Succop Nature Park

Earn a nature-related badge of your choice. Arrangements are by den or troop and must be made in advance by contacting our education department. Contact Scott Detwiler at (412) 963-6100 or sdetwiler@aswp.org to make your reservation. Cost is \$7.50 per scout.

New! BUTLER EVENING SERIES

These free events take place in Butler County, at our Succop Nature Park or Todd Nature Store and start at 7pm.

WINTER BIRDS AND BACKYARD BIRD FEEDING

Succop: January 7 / Todd Nature Store: January 9

The temperature might be cold outside, but our feathered friends are still livening up the skies! Learn to identify common backyard winter birds and optimize your feeding methods to attract the widest variety of feathered friends.

DON'T BE AFRAID OF THE OUTDOORS: TICK & LYME DISEASE

Succop: February 11 / Todd Nature Store: February 13

Don't let ticks keep you from enjoying the outdoors! PA leads the nation in Lyme disease diagnoses, but with some simple steps, you can keep you and your family safe when hiking in the woods.

These events are made possible through the generous support of an anonymous donor.

MAPLE SUGARING

Succop: March 12 / Todd Nature Store: March 12

Learn the chemistry of Maple Sugaring! This session will cover the entire process and teach you how to make this regionally specific product from your own trees.

CREATING NATURE-FRIENDLY SPACES AT HOME

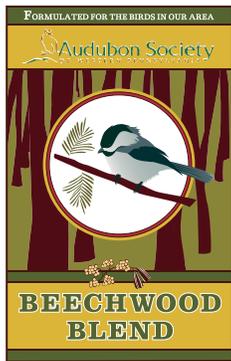
Succop: April 7 / Todd Nature Store: April 9

Make your outdoor space be a haven for insect-eating birds, native plants, and helpful pollinators. Learn tips and strategies to create a peaceful and beautiful outdoor space that provides a helping hand to nature.

Audubon NATURE STORE

A CUSTOMER FAVORITE IS BACK!

Jabebo earrings are lightweight and handmade in Bellefonte PA from post-consumer recycled paperboard!



FEED THE BIRDS THIS WINTER

To help you support the birds this winter, we're offering new, lower prices on all of our bird seed—and an expanded line of bird feeding equipment.

If you can't make it into one of our nature stores, we're happy to announce that you can pick up 20-pound bags of Beechwood Blend at regional Giant Eagle stores.

YOU ASKED FOR MORE

Folkmanis Puppets are back in stock. Pick up one of these realistic and soft puppets in sizes from finger to professional stage size!



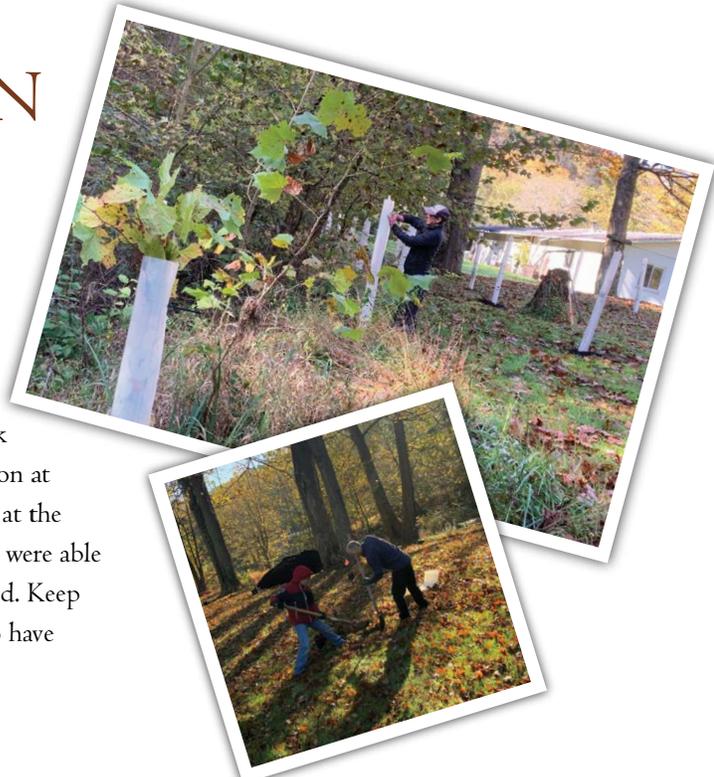
Store HOURS:

BEECHWOOD FARMS
NATURE RESERVE
Tuesday–Saturday: 9am–5pm
Sunday: 1–5pm

SUCCOP NATURE PARK
Wednesday–Friday: 12–5pm
Saturday: 9am–5pm
Sunday: 1–5pm

YELLOW JACKET SQUARE
IN SARVER
Wednesday–Friday: 12–6pm
Saturday: 9am–5pm

HABITAT RESTORATION & ENHANCEMENT *Highlights*



Fall was a busy time for ASWP's habitat enhancement and restoration work across our nature sites, including upland tree planting and meadow expansion at Beechwood Farms Nature Reserve (BFNR) and riparian buffer restoration at the Buffalo Creek Nature Center (BCNC). With the help of 75 volunteers, we were able to plant 268 native trees and shrubs, 120 perennials, and 15 pounds of seed. Keep an eye on our calendar for opportunities to get involved—it's a great way to have fun, get your hands dirty, and help the environment!

RIPARIAN BUFFER RESTORATION AT BCNC

Nearly an acre along Little Buffalo Creek was planted with a variety of native trees and shrubs. Riparian buffers are areas of native vegetation along streams and rivers that provide habitat, reduce stream temperatures, lessen the effects of flooding, improve water quality, and support clean air. We will be continuing this work throughout the Buffalo Creek Watershed next year. Funding for this project was provided by DCNR and PENNVEST.

UPLAND TREE PLANTING AT BFNR

Over 100 native trees and shrubs were planted near the Audubon Center for Native Plants and along Spring Hollow Trail as part of the Keystone 10 Million Trees Partnership.

MEADOW PLANTING AT BFNR

Meadow habitat was expanded at BFNR by removing invasive species and planting over an acre with a variety of high wildlife-value plants and seeds along Spring Hollow Trail. We're excited to see native species such as Swamp Milkweed, Brown-eyed Susan, Oxeye Sunflower, and Bee Balm growing next year in this new meadow! Funding for this project was provided by Patagonia Pittsburgh and Lorrie Otto Seeds for Education.

Memorials & Honors

Memorials

Lewis K. Johnson
Emily Russell

James E. Moody
Combined Memorials, Friends
and Colleagues

Jack Peffer
Dana Buckbinder

Barbara Rosencrans
Heidi Kuebns

Doris Bunker
Mr. and Mrs. Lawrence Young

Charles Jennewine
Brian Eckenrode
Debra McFadden
Caryn Miller
Joanne and Dave Brownlee

Amy Walowen
His Kids Christian School Board
Gwenyth and Geoffrey Thomas

Anthony Bledsoe
Sharon and Hiller Hardie
Maya Groner
Natalie Boydston
Joy Edwards
Kate and Richard St. John

Maxine Roland
Mr. and Mrs. Fred Schirm

Bob Kaelin
Betsey Owens and Troy Tafel

Beryl Obringer
Mr. and Mrs. Jim Galie
Andrew Obringer
Cheryl and John Kokenda

Honors

Maia Rodriguez and Patrick McGinley
Drs. Eric and Grace McCorrigan-Rodriguez

Connie Haswell
Janet and Art Black

WAYS YOU CAN *Support Audubon!*

DOUBLE YOUR DONATION

Did you know that your gift to ASWP could be doubled with a matching gift from your employer? Many corporate philanthropy programs offer to match their employee's charitable contributions to non-profits. Some of the companies we know of here in western Pennsylvania include Apple, Google, Grainger, Home Depot, Starbucks, State Farm, and Verizon. But there are many more—if your company is one of them, let us know. By simply completing your company's matching gift form, you can double or even triple the impact of your gift. Ask your employer today.

TURN VOLUNTEER TIME INTO CASH FOR ASWP

Your company may offer a Volunteer Grant Program, where it provides a monetary grant to ASWP while you and your coworkers get to volunteer outdoors doing something you love. ASWP manages three reserves and it's always helpful to have additional support in caring for these spaces. Companies including American Eagle, Ally, and Google have rolled up their sleeves to support ASWP with grant-funded volunteer work sessions. Call us to schedule your volunteer session at (412) 963-6100.

GIVE THE GIFT OF AUDUBON!

Give the gift of Audubon! Join or renew your membership online, anytime, at www.aswp.org.

ASWP IS EXCITED TO HOST THE 10TH ANNUAL AUDUBON PHOTOGRAPHY AWARDS TRAVELING EXHIBIT

— IN OUR AREA! —

These extraordinary photos will be on display at the following locations—don't miss it!

Beechwood Farms Nature Reserve:
Now through December 5

Todd Nature Store: December 6–12

Succop Nature Park: December 13–19



Jim Sarah Kim Scott Dawn Rich John
Miss
Don
Pauls Sam
Renee
Rebecca
Kel
Rachel
Ryan
Roxanne
Kellen

Congratulations BARB!

We will miss you! Enjoy your retirement and thanks for all you've done for Audubon!



GET INTO THE
Holiday Spirit
— WITH AUDUBON! —

See all of the Christmas Bird Count events in our Special Events listing on Page 5!

DECORATE A MINI TREE
DECEMBER 7 AT BEECHWOOD

Create a holiday masterpiece using natural materials. For each tree: \$35 for members, \$40 for nonmembers. Registration is required one week prior to workshop for gathering of materials.

YULE LOG HIKE AND CRAFT
DECEMBER 7 AT SUCCOP

Hike out into the woods to gather natural materials to decorate a birch Yule log. We will drill candle holes and level your log so that it will stay in proper position when you use it to decorate for the holidays. For each Yule log: \$6 for members, \$10 for nonmembers. Registration is required one week prior to workshop for gathering of materials.

HOLIDAY TEA FOR GIRLS AND BOYS
DECEMBER 7 AT SUCCOP

Bring your girls and boys, along with their favorite doll or toy, for a tea party that celebrates the holidays! We'll have tea, snacks, holiday carols, and a craft. These events fill quickly, so register early. Cost: \$20 per member; \$25 per nonmember.

HOLIDAY TEA
DECEMBER 14 AT SUCCOP

Succop Nature Park is beautifully decorated for the holidays! Join us for tea, snacks, holiday carols, and a craft. Cost: \$20 per member; \$25 per nonmember.

SAVE THE DATE FOR MAPLE MADNESS!
BEECHWOOD MARCH 21 & SUCCOP MARCH 28