

# STREAMWATCH

A team of more than 70 Streamwatchers continues to be the eyes and ears of our local watersheds. For over 30 years, this dedicated group of volunteers has collected data that is being utilized by partner organizations to make better informed management decisions. BWA and the Monroe County community are extremely thankful to this group of volunteers for their service. It is no small feat to be the watchdog for 563 miles of streams, but they do it with dedication and perseverance.

### Cherry Creek

Dale Acker  
Linda & Tim Breen  
Elizabeth Cortright  
Crank Family  
Elvie & Michael  
DeLotto  
Ann Fetherman \*  
Lisa & Lourdes Gierlich  
Green family  
Liz & Gary Lewis  
McCauley family  
Deborah Olsen  
Donna Reish  
William Rothfus  
Pete Steele

### Lower Brodhead

Rick Croll  
Karen Griffin  
Tamre Joyce  
Beth Klaus  
Brian Kukla  
Veronica Litras  
Jennifer Rourke  
Walt Schupp

### Marshall's Creek

Melissa Benzinger  
McGlynn  
Pam Kemecsy  
Wendy Lichty \*  
Walt Schupp  
Marynell Strunk  
Marianne Walsch

### McMichael Creek

Emma Barrett  
Diana Ceaser  
Esther Ermlick  
Cathy Folio\*  
Mark Folio  
Denis Giffels  
Donna Klein  
Connor, Dean &  
Melanie McCarthy  
Dean McCarthy  
Dave Rich  
Scarlett Rehrig  
Bob Wacker

### Paradise Creek

John Briggs  
Bruce Estell  
Kathy & Rich Leies  
Dean & Sue Nealy  
Karen & Don Struckle  
Emma Thompson  
Steve & Kathy Watto

### Pocono Creek

Candace Eaches  
Ann Harmon  
Dan Lee  
Paul Nelson  
Candace & Ray Roper  
Jim Wallingford  
Brenda Wilkins

### Upper Brodhead/ Barrett

Betty Fetherman\*  
Tanya Lutin  
David Mengle  
Chris Nelson

### Conductivity & Chloride Team

Todd Burns  
Rick Croll  
Rich Cullin  
Betty Fetherman  
Ann Harmon  
Dan Lee  
Nathaniel Leies  
Wendy & Mark Lichty  
Tanya Lutin  
David Mengle  
Paul R. Nelson  
Candace & Ray Roper  
Jim Wallingford

\*Team leader



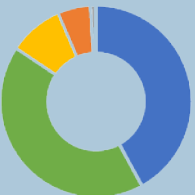
## REPORT TO THE COMMUNITY

BWA's unwavering dedication to promoting and protecting clean and abundant water continued through 2021 with over 20 public educational interactive events including the annual Plant Sale, Delaware River Sojourn, our summer Ramble at the Skytop Lodge, and our annual dinner and celebration on the Delaware River at Shawnee. Our new Activities Map was launched and remains the best resource in Monroe County for outdoor activity. Be sure to visit Minisink Park, near the PA Welcome Center to explore BWA's new nine-kiosk storymap.



Alex Jackson  
Executive  
Director

### 2021 BY THE NUMBERS



#### INCOME

Grants, 42%  
Public, 42%  
Program, 9%  
Events, 6%  
Interest, 1%



#### EXPENSES

Admin, 26%  
Programs, 74%

BWA's program activities include our Get Outdoors Poconos, community engagement, municipal technical assistance, communications, and collaboration.

BWA's programs are designed to support our organization's mission to promote and protect clean and abundant water in the Brodhead and Cherry Creek Watersheds.

## FOR CLEAN AND ABUNDANT WATER



# BRODHEAD WATERSHED ASSOCIATION REPORT TO THE COMMUNITY 2021

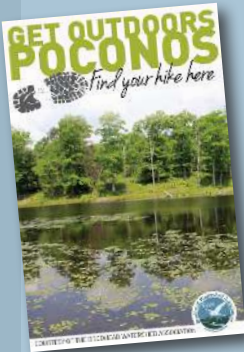
## Advocate educate protect

### GET OUTDOORS POCONOS

BWA's **Get Outdoors Poconos** monthly event series highlights the benefits of land protection and wildlife habitat and is supported by the William Penn Foundation. BWA's **Watershed Activities Map** and **Hiking Booklets** Volumes 1 & 2 are the best resources in Monroe County for outdoor activity. Free to the public and available to all our members and friends, our comprehensive map of trailheads, waterfalls, fishing, and boating highlights throughout the watershed is a must-have.

BWA's major event was our exclusive access to Skytop Lodge's trails and waterfalls for the 2021 **Ramble**. With perfect high-water levels after tropical storm Henri, all participants have cherished memories of Indian Ladder Falls and Leavitt Falls. BWA's **Celebration on the Delaware** featured speaker Dr. Jay Hunt from ESU on the topic of "Water, water, everywhere: How upstream decisions impact downstream environments."

We also partnered with Leigh Schuler from the MCPC to host the **Mystery Mushroom Tour**, and Chief Naturalist Rick Koval of Skytop Lodge for the Ramble hikes. Naturalists Carol Hillestad, Patti O'Keefe, and Darryl Speicher led events at Mt. Wismer, Nothstein Preserve, Josie Porter Farm, Thomas Darling Preserve, Rail Gap Preserve, and Ice Lake.



### WATERSHED WATCHDOGS

Monroe County is now **ground zero** for large-scale industrial development in Pennsylvania.

Development needs to be sensitive to and fully consider the context of the landscape in which it is being placed.

The basic state permit requirements alone may not be sufficient to maintain the water quality and ecological integrity of the **Exceptional Value (EV)** and **High Quality (HQ)** major tributaries to the Brodhead. The bulk of the responsibility in water quality protection rests on the shoulders of our elected and appointed local municipal officials.

BWA encourages all of its members to continue to **motivate municipal officials**: No waivers of any resource protection ordinances, zone appropriately for water protection, and expand permanently protected wildlife habitat lands.

Do we want a future of industrial air and water pollution, truck traffic and warehouses? Or do we want **clean drinking water**, activity-driven tourism, fishing, wildlife habitat, and idyllic agricultural landscapes?

### CLEAN AND ABUNDANT WATER

The Monroe County Planning Commission's **Return on Environment (ROE)** research demonstrates that forested landscape and clean water account for **billions in combined revenue and cost savings to taxpayers**.

**Over 98% of the residents in Monroe County rely on locally sourced drinking water.**

Extensive forested landscape is the reason that our drinking water is clean and abundant.

Research has demonstrated that **when just 10% of the forest is replaced with impervious surfaces, water quality is impaired**.

It takes a community-wide effort to protect these resources – for good reason: All future generations' welfare and safety depends on preserving forested landscape, and the clean and abundant water that undisturbed forested landscapes produce.

### MUNICIPAL TECHNICAL ASSISTANCE

BWA participated in the Monroe County Planning Commission and Monroe County Conservation District-led update to **Act 167 - Brodhead-McMichael Stormwater Management Plan**.

We partnered with Natural Lands, PennFuture, DCNR, American Rivers, Pennsylvania Environmental Council, MCPC, and MCCD to lead the **MS4 Municipal Roundtable** in January.

We partnered with the Kettle Creek Environmental Education Center, ESU, DCNR, and Friends of Cherry Valley at the Cherry Valley National Wildlife Refuge for a **Pancake Breakfast** to promote resources available to expand open space for municipal leaders.

BWA's executive director's seminar at the ESU Provost's Colloquium promoted BWA's **Plan for Clean Water** and **Green Infrastructure Plan**.



### COMMUNITY OUTREACH & PARTNERSHIPS

BWA is committed to hosting and facilitating public events that educate and encourage responsible use of our Pocono waterways, forest, and wetlands.

BWA participates in annual events including **StroudFest**, **COTA**, **Pocono Township Community Day**, **MCCD's**

**Bug Fest**, and Middle Smithfield Township community events. BWA also hosted the annual **Rain Barrel Sale and Seminar** at the Brodhead Creek Heritage Center, and the annual online **Native Plant Sale**.

We have continued partnerships with **Our Pocono Waters**, **Trout Unlimited**, and **Pocono Heritage Land Trust** for even more educational events, and engaged constituents with multimedia content like our **Creek Critters** series on social media.

Monthly feature stories, such as **Invasive of the Month**, **Woods and Water**, **Nature at Risk**, and **Clean Water Is Up to You** highlight conservation topics of interest to our local audience.

BWA's Carol Hillestad's written work earned **front-page Pocono Record** coverage for "How the Brodhead Watershed handled Tropical Storm Henri" and "Winter hike in the Poconos offers dose of conservation."

Executive Director Alex Jackson's **live news coverage** included "A small reptile in the Poconos Needs your help" and "Paddlers enjoy steamy day on the Delaware River Sojourn."

Newly-installed nine-part **educational interactive storymap kiosks** at Minisink Park are now up and running.

The kiosks feature geological history, original peoples, invasive species, native plants and animals, and explore the vital role of floodplains and forests in maintaining water quality.

BWA & Smithfield Township partnered with resources provided by **William Penn Foundation**, **1% For Nature**, and Stroudsburg's **Rotary Club** to complete this project.



### STREAM MONITORING

BWA has deployed five **MayFly Loggers** in the upper Brodhead Watershed to provide real-time data on conductivity, temperature, and water depth.

In March, BWA carried out our annual **Streamwatch Volunteer Training** online via the Brodhead Creek Heritage Center.

BWA has a **NFWF grant partnership** to protect and restore Mill Creek from Route 191 to below Route 390 in Mountainhome. See the project map above for details on knotweed control projects and progress.

Through a **DEP Growing Greener Grant**, BWA is studying water samples in our headwater creeks. We want to know if human activity has increased the levels of dissolved ions in our surface waters. Study results will be released in 2022.





# Thank you

Your support sustains our science-based work.



/// = 2021 Conservation Partner. For information, go to <https://brotheadwatershed.org/conservation-partnership/>

## Watershed Stewards \$4,000 to \$5,000

- /// The Berkheimer Foundation
- /// Mike & Patty Stein
- /// Edie Stevens

## \$3,000

- /// Mark Chehi
- /// Mark Dodel & Patricia Rylko
- /// PPL Foundation
- /// Sanofi
- /// Vigon International

## River Stewards \$1,000 to \$1,999

- /// Steven Binnick
- /// Buck Hill Water Co.
- /// Olin Cramer
- /// Gregory Ferenbach
- /// Dewey Imhoff
- /// Michael W. Johnson
- /// Middle Smithfield Township
- /// Christopher Nicholls
- /// Smithfield Township
- /// Richard Stebbins
- /// Charles Wagner

## Stream Stewards \$500 to \$999

- /// Ann & Joseph Farda Foundation
- /// Barley Creek Brewing Co
- /// Joseph & Sara Bedrick
- /// Borough of Stroudsburg
- /// Brodhead Creek Regional Auth.
- /// Brodhead Flyfishers
- /// Brodhead Forest & Stream Assoc.
- /// Susan & Thomas Brozena
- /// Bushkill Falls
- /// Chestnuthill Township
- /// G. Edward & Karren A. DeSeve
- /// ESSA Bank & Trust
- /// Eric & Amy Girardi
- /// Henryville Conservation Club
- /// Sharon & Richard Laverdure
- /// John & Laura Layton
- /// David Lewis
- /// Mark & Wendy Lichty
- /// Magnolia Streamside Resort
- /// Sheelagh Murphy
- /// Paradise Township
- /// Parkside Angling Association
- /// Pocono Township
- /// Pohoqualine Fish Association
- /// John Prevostnik
- /// Ray Price Cars
- /// Trip Ruvane
- /// Strauser Nature's Helpers
- /// Stroud Township
- /// Doug Swift
- /// Swiftwater Preserve
- /// Trout Unlimited
- /// UGI Utilities Inc.
- /// Thomas & Christine Wilkins

## Champions for Enduring Legacy of Pocono Waters \$250 to \$499

- Sebastian Mannanice
- Deborah & Stuart Poppel
- Spread Eagle Associates
- Pocono Cheesecake Factory
- Bendobrook Trust
- Barrett Township
- Brodhead Hunting & Fishing Club
- Paradise Falls Lutheran Association
- Edgar Cullman Jr.

## Protectors of Endangered Rivers and Wetlands \$100 to \$249

- Frank Allen
- Robert Barrett
- Miriam & Kurt Bauers/Zeisler
- Mary Baxter
- Don & Barbara Baylor
- Marykathryn Best
- Gary & Heidi Bloss/Secord
- Damary Bonilla-Rodriguez
- Bruce & Andrew Bonner/Leschak
- Richard & Denise Boyle
- Robert Brucker
- Todd Burns
- John Caminiti
- Lori Cerato
- Merlyn & Betsey Clarke
- Geraldine Daley
- Meg & Joe Dilger
- Michelle & Todd Farley
- Anne Fetherman
- Catherine Folio
- Tim & Patty Fretz
- Jennifer & Christopher Frie
- Peter & Debbie Gonze/Mattie
- Elena Gupko
- Hamilton Township
- Allison Heinsohn
- Susan & Richard Huffman
- Ed & Dawn Kendall
- Dee & William Kreiter
- Lake Swiftwater Club
- David & Linda Levenberg
- Gregory Lewis
- Jacqueline Magann
- Susan McClure
- Kim McKay
- Joe & Donna Memoli
- Monroe County Conservation District
- Michaelynn Myers
- Gary & Sue Oiler
- Nancy Pace
- Michael Penn
- Joseph & Rachel Rattman/Cohen
- Dan Raymond
- Phyllis Riley
- Denise Ring
- Elaine Rogers
- Emily Rollinson
- Sally Rosen
- Robert & Susan Shebelsky
- Peter & Janice Steele

- Joanne & Francis Taylor Jr.
- Marie & Robert Thomsen
- Craig Todd
- Leslie Underhill
- Holly Wood
- Ingrid & Frank Young
- Art & Paula Zulick/Heeschen

## Guardians of Clean and Abundant Water \$50-\$99

- Joanne & Daniel Ackers
- Amy Albert
- Jessica Allan
- Annette Atkinson
- Eileen Avrich
- Eric & Amy Baird
- Douglas Bannon
- Bart Bartolacci
- Gary & Mary Beehler
- Rich & Brenda Bell
- Rebecca Butz
- Gary & Kathie Calandra
- Katie Calcaterra
- Cynthia Campo
- Martha Carbone
- Sharon and Austin Carey/Keen
- Nina & Forrest Cavalier
- Suzanne Colefield
- Matt Connell
- Richard & Mary Ellen Cramer
- Nancy Daniels
- John & Linda Jo David
- Elvi & Michael DeLotto
- Judy Dempewolf
- Jessica & Jim DePete/Burke
- Marilyn & Steven Detrick
- Thomas Detweiler
- Charlotte DiBartolomeo
- Matt & Sarah Dilger
- Michael Doherty
- Brenda Ensley
- Patricia Erhard
- Edward & Mary Erm
- Linda & Charlie Eyer
- Jeff & Mary Ellen Feick
- Royce & Debra Fetherman
- Amy Finkelstein
- Kathryn & Bob Fitzgerald/Fedelender
- Jack & Joanne Fossett
- Patricia Freeland
- Teri & David Gaglione
- Kristy Galunic
- Ken & April Gaugler
- Denis Giffels
- Krista Gluchoski
- Luz Gomez
- Alfred Grassa
- Joan Griffin
- Sara Gurunathan
- Tara Hafferman
- Samuel & Peggy Hardy
- Barbara & Robert Harteis/Wahl
- Mike & Margie Heitman
- Eric & Eileen Helin
- Tammy Hiestand

- Kathleen Hinton
- Michelle & Dawson Holker-Smith
- Jay & Barbara Huffman
- Helen Hughes
- Alexander Jackson
- Rob & Amy Johnson
- Abigail Jones
- Tamre Joyce
- Barbara & Jeffrey Keiser/Wright
- Pam Kemecsy
- Douglas & Laura Kerr
- Mark & Kathleen Kilker
- Rick & Carol Klinger
- Lorena Koszarek
- Brian & Rita Lacey
- Wendy & Tom LeDuc
- Doug & Elaine Leies
- John & Amy Leiser
- Bill Leonard
- Thomas & Mary Kaye Lesisko
- Elizabeth & Gary & Kelly Lewis
- Barbara Licznarski
- Veronica Litras-Meehan
- Kay Lopez
- Jacquelynn Ludka
- Anna Lukasiak
- Virgil Marti
- Frank & Ginny May
- Suzanne McCool
- Jean & Dan McCoubrey
- Don & Gayle Miller
- Warren & Pamela Miller
- Jennifer Mittereder
- Gary Morris
- Richard & Sandi Mosher
- Pat Mulroy
- Christine Murray
- Dean & Sue Neely
- Nathan Oiler
- Lisa Oser
- Joni Oye-Benintende
- Larry Paretta
- Mary Louise Parker
- Gregory Pence
- Susan & James Penny
- Sharon Petry
- Samuel Piel
- Nancy Pindrus
- Francis Pisko
- Rob & Maureen Poorman
- Jim Popelka
- Martin & Mary Price
- James & Sally Pringle/Griffith
- Nancy & Frank Pullo
- Robert & Gary Riday/Raish
- Kimberly & Michael Riley
- Michelle & Adam Riley/Niewood
- Stacy Rodriguez
- Larry & Marie Ruch
- Helen Rusk
- Elizabeth Ryan
- Elizabeth Sawyer
- Louise & Chase Sellon/Newhart
- Steve & Mathilda Sheptak
- Jill Shukaitis
- Marie Smeraldo

# Thanks to all of you ...

... streams in the Brodhead and Cherry Creek watersheds of northeastern Pennsylvania are rated "high quality" and "exceptional value" coldwater streams.

*We appreciate your support!*

## Thank you to all of our members and partners!

We are so grateful for the dedicated support that our members and Conservation Partners provide to BWA's clean water mission. The generous support of every one of our members helps to sustain the critical water quality work of the BWA, as we work to keep water safe to being with – a much cheaper, far more effective approach than costly cleanups following careless development. **THANK YOU** for your continued support of clean and abundant water!



**Michelle Riley**  
Development  
Associate

**Michelle**

Find out more about how a **BWA Conservation Partnership** can sustain our clean water mission, protect high-quality and exceptional-value streams, and benefit your business! Call Michelle at (570) 839-1120 or email [development@brodheadwatershed.org](mailto:development@brodheadwatershed.org).

See: [brodheadwatershed.org/conservation-partnership/](http://brodheadwatershed.org/conservation-partnership/)



## Grants

- 1% for Nature
- Clif Family Foundation
- Hughes Family Foundation
- National Fish & Wildlife Foundation
- PA DEP (Growing Greener)
- Rotary of the Stroudsburgs
- The William Penn Foundation

## Perennial Club sustained monthly support

Gordon Dana  
Jillian DePete-McMahon  
Frances Ferrari  
Ann Foster  
Mark Gaylo  
Delaney & Amy Henasey  
Carol & Jim Hillestad  
Colleen Jamison  
Jeanne Maiden  
Chris & Theresa Merli  
Joan Merli  
Rob and Sally Sedwin  
John Smith  
Eleanor & Douglas Taylor  
Brenda Wilkins  
Julie Wynne

## Plant Sale Sponsors

Citizens Bank of Brodheadsville  
Colonial Auto Sales  
David S. Lansdowne Insurance  
New York Deli & Catering  
Pocono Rocks!  
Resort Beverage Company  
Strauser Nature's Helpers

## Memorial and special donations

- Daniel Flagler, \$250, in honor of Anne Fetherman's birthday
- Marjorie Bhavnani, \$250, in honor of the marriage of Greg Lewis & Gussie Reilly
- Raoul Bhavnani & Savitha Reddy, \$250, in honor of the marriage of Lewis & Reilly
- Barbara Keiser and Jeffrey Wright, \$100, in honor of Pat and Lou Powlette's 50th wedding anniversary

## Guardians, continued

Darryl & Jackie Speicher  
Don & Karen Struckle  
Marynell Strunk  
Ann & David Super  
Catherine & Paul Sweeney  
Marjorie Teada-Kiernan  
Russell Thrall  
Nancy & Bill Tkacs  
David & Robin Trainer  
Kathy & Eric Uhler  
Regina Urban  
Laura & Rick Van Gilder/Ball  
Alda Villafana  
Heidi Walls  
George Warden  
John Weidman  
Frederica Werkheiser  
Frank Whalen  
John & Fran Whipple  
Paul Wilson  
Frances Woo  
John Woodling  
John Yetter  
John York  
Raymond Youngblood  
Lawrence & Donna Yozwiak  
Pam & John Zulick/Byrne  
Laura & Nick Zulick/Mitch

## Individuals, Students & Seniors up to \$49

Bob Armstrong  
Jacqui Bonomo  
Randy Boone  
Gerry & Georgine Bortz  
Sue & John Briggs

Dick Bubka  
Loretta & Manny Butera  
Brenda Butz  
Pat Calpin  
Cheryl Campbell  
Carolyn Caruso  
Karen Chase  
Leonard Checchio  
Brittney Coleman  
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Susan Detrick  
Harriet Dronska-Feitelberg  
Sally Duffy  
Jere Dunkelberger  
Helen Ecklund  
Bruce Estell  
Mark & Cheryl Feder  
Sherry Ferguson  
Betty & Joseph Fetherman  
Ginny Fields  
Mark Folio Sr.  
Ellen Foos  
Susie Forrester  
Karen Gee  
Michael Gondell  
William Gontram  
Patricia Goucher  
Karen Griffin  
Robert Grivner  
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Sandra Hance  
Catherine Hancock  
Jeffrey Hardy  
Robert Hare  
Ann Harmon  
Laurie Harriton

Elizabeth Hassrick  
Brigitte Heffernan  
Robert & Carol Hergenhan  
Frank & Barbara Herting  
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Claudia Hill  
Nancy Hilliard  
Kevin Hopkins  
Maria Horn  
Deborah Huffman  
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Jeannine Ksiaskiewicz  
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Dan Lee  
Homer Lee  
Anne Marlene Lesh  
Jesse Lewis  
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Wemara Lichty  
Joan Lippi  
William Loftus  
Joan Loveless Blobner

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James McMullen  
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David Mengle  
Patricia Michelin  
Richard Mooney  
Adam Mosher  
Philip Mosley  
Ann Nicholas  
Brian Nolan  
Grace Nolt  
Yvonne Novak  
Patti O'Keefe  
Jan Olsommer  
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Dale & Sharon Price/Rose  
Jacob Pride  
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Bill Reese

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Keith Robinson  
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Sarah Toot  
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