



2022 Annual Report

of the



Farmington River Watershed Association

*Protecting and preserving the natural resources of the Farmington River Watershed through
research, education, stewardship, and advocacy— for you, for all, forever.*

Lack of Rain in 2022 Affects Water and Habitat Quality

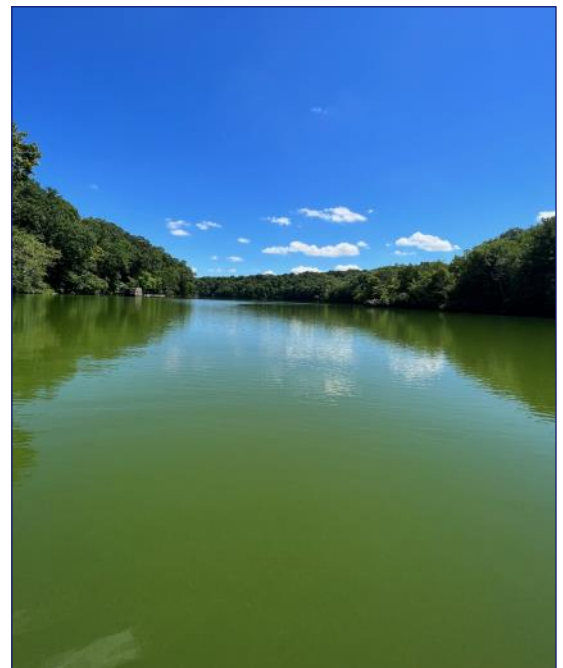
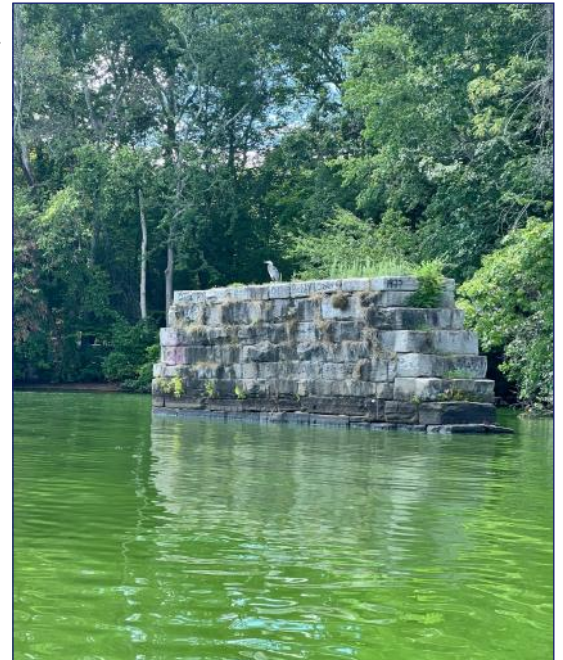
This year's drought affected most of the Farmington River Watershed. The Connecticut Department of Energy and Environmental Protection (CT DEEP) reported precipitation levels 32% and 48% below average in Hartford County and Litchfield County, respectively, throughout July and August of this year. The U.S. Drought monitor released maps on October 27th that showed abnormally dry conditions throughout much of central and western Connecticut and Massachusetts.

FRWA staff witnessed evidence of this drought that included dry streambeds, fish kills, elevated water temperatures, and increased concentrations of chloride, nutrients, and *E. coli* bacteria. Low flow and high temperatures contributed to a harmful cyanobacteria bloom in Rainbow Reservoir during July and August. FRWA collected samples from this bloom to investigate causes and to provide background information for potential future mitigation options.

Other effects of drought can include:

- Low surface water levels, which inhibit aquatic passage and decrease habitat and food availability for aquatic and woodland wildlife
- Increased nutrient concentrations in surface waters, which stresses aquatic life and can lead to harmful cyanobacteria and algal blooms
- Loss of groundwater, which feeds rivers and provides drinking water
- Decline in commercial crop growth and production
- Increased fire hazard in wooded and brushland areas
- Increased water temperatures, which severely stress aquatic wildlife

We can all pitch in to help relieve the effects of drought. Scan the QR code to the right or visit riversmartct.org to learn how you can help conserve drinking water during the dry season.



Photos of cyanobacteria bloom on Rainbow Reservoir in Windsor, CT taken by FRWA staff.

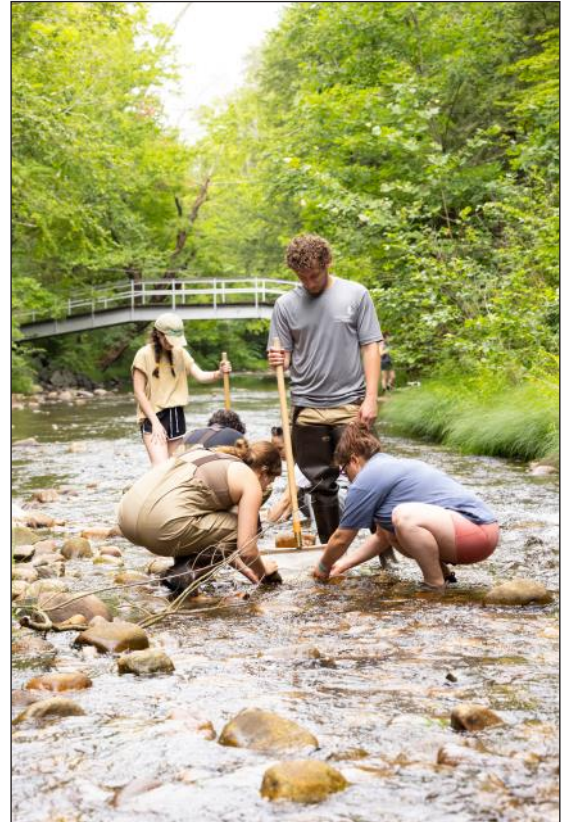
2022 Research and Water Quality Monitoring

Coliform Bacteria Monitoring

FRWA staff and four volunteers monitored sixty-six *E. coli* sampling sites this year in the Farmington River and its tributaries from June to September. Our monitoring season included seventeen sampling sites in Massachusetts and forty-nine sites in Connecticut. We extend our gratitude to the Town of Simsbury's Water Pollution Control Authority for allowing us to utilize their lab to analyze our samples.

Chloride Water Monitoring– Salt Watch

FRWA partnered with the Izaak Walton League of America (IWLA) in 2021 to participate in their Salt Watch program and research harmful road salt runoff pollution in our watershed. After a season of winter sampling and discussions with IWLA, DEEP, and our Wild & Scenic Committees, we decided to continue our chloride sampling through the summer and found that salt concentrations increased during the dry months.



Water Temperature Monitoring

FRWA installed five new continuous temperature dataloggers and retrieved and redeployed thirteen loggers throughout the river and its tributaries in Connecticut. High temperatures in surface waters occur due to climate change and pollution, and they decrease the available oxygen for aquatic organisms.

Stream Crossing Assessments

FRWA conducts stream crossing assessments (photo above) in both the upper and lower Farmington River thanks to funding from the Farmington River Coordinating Committee (FRCC) and the Lower Farmington River and Salmon Brook Wild & Scenic Committee (LFSWS). We have also expanded our stream crossing program into Massachusetts by joining the Berkshire Clean, Cold, and Connected Partnership, led by the Housatonic Valley Association. We have submitted a total of thirty-six assessments during the 2022 season in Burlington and Canton, CT as well as twenty-one assessments in Otis and Sandisfield, MA.

Aquatic Insect Sampling

FRWA trained twenty-eight volunteers this September to assist in performing assessments according to the CT DEEP RBV (Riffle Bioassessment by Volunteers) Protocol. Aquatic macroinvertebrate assessments are used to identify high-quality stream habitats. Eleven samples were collected in 2022 from ten streams. FRWA will be submitting results from the fall of 2022 to CT DEEP, and these results will be published in an annual report.

Monitoring in 2022

Bacteria sample sites: 66
Bacteria samples analyzed: 404
Chloride sample sites: 21
Chloride samples analyzed: 122
Nutrient monitoring sites: 25
Nutrient samples analyzed: 37
Temperature sensor sites: 18
Macroinvertebrate sampling sites: 8
Stream-crossing assessments: 51
Water monitoring volunteers: 31

Embracing Community in Outdoor Activities

Over the past year, FRWA has been inspired and motivated by all the people that have come out to support us and help us in our mission to preserve and protect the Farmington River and its watershed. After the past few years of working in isolation, this year felt much like the opposite. We were blown away by the enthusiasm of our community; people came out in droves to support us and meet up and share experiences.

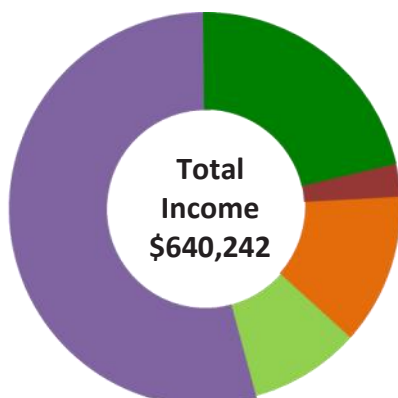
We had two river cleanups, outdoor native tree plantings, educational programs for students, invasive plant clearing days, and volunteer trainings on aquatic insect populations and stream crossing assessments. We launched again onto Rainbow Reservoir to study the cyanobacteria blooms from Camp Shalom and also educated the campers on how we take measurements with our equipment (photo on the left). FRWA hosted a Diversify Whitewater paddle (photo below) on the Farmington River, and we were rewarded with new friends learning new skills and connecting people with the beauty of the Farmington River while removing barriers to accessing the paddling sports community. We plan to continue hosting events to meet you all! Thank you for a great year!



Financials - July 2021 through June 2022

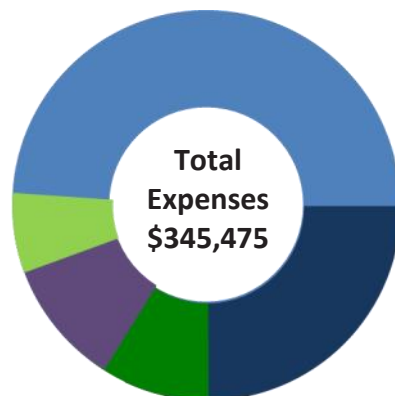
Income, FY 2020-21

- Contributions, 58%
- Fees for Service, 21%
- Memberships & Dues, 13%
- Endowment Transfers, 7%
- Special Events & Sales, 2%



Expenses, FY 2020-2021

- Research & Projects, 49%
- Outreach & Education, 27%
- Advocacy, 10%
- Management & General, 9%
- Fundraising, 5%



Acknowledgments

FRWA thanks all the businesses and individuals who have donated goods and services and made financial contributions to support our programs in the 2021-2022 Fiscal Year.

Grant Support

Connecticut Dept. of Energy & Environmental Protection
Farmington River Coordinating Committee (FRCC)
Farmington Valley Trout Unlimited
Hartford Foundation for Public Giving
Lower Farmington River & Salmon Brook Wild & Scenic Committee (LFSWS)
National Fish & Wildlife Foundation
Werth Family Foundation

In-Kind Support

Connecticut River Conservancy
City of Bristol Parks & Recreation
City of Bristol Public Works
Collinsville Canoe & Kayak
CT Dept. of Energy & Environmental Protection
Metacomet Tours
Feldman, Perlstein & Greene, LLC
Murphy, Laudati, Kiel & Rattigan, LLC
North Central Conservation District
Northwest Conservation District
Simsbury Water Pollution Control Facility
Waste Material Trucking Company
Winding Trails

Municipal Support

City of Bristol
Town of Avon
Town of Barkhamsted
Town of Bloomfield
Town of Burlington
Town of Canton
Town of Colebrook
Town of East Granby
Town of Farmington
Town of Granby
Town of Hartland
Town of New Hartford
Town of Norfolk
Town of Plainville
Town of Simsbury
Town of Winchester
Town of Windsor

Corporate Support

Aquarion Water Company
Brewery Legitimus, LLC
Carmon Community Funeral Homes
E & D Pizza
E.N.E. Realty Associates, LLC
EarthShare of New England
Fidelity Charitable Gift Fund
Horst Engineering
PKT Development
The Walt Disney Foundation
United Health Group
Wood-n-Tap

Matching Gift Companies

Assured Guaranty
DST Systems, Inc. Matching Gifts Program
Google
Otis Elevator Company
Raytheon Matching Gifts
Symetra Gives - Employee Donations
The Hartford
United Health Group
United Way of Central & Northeastern Connecticut
United Way of Massachusetts Bay and Merrimack Valley

Film Festival Sponsors (2021 & 2022)

Farmington River Coordinating Committee - FRCC
Lower Farmington River Wild & Scenic - LFSWS
Collinsville Canoe & Kayak Store
Essex Financial Services
Farmington River Anglers Association
Feldman, Perlstein & Greene, LLC
FlexWork Sports Management
Kuhlberg Orthodontics
ShopRite - Joseph Family Markets, LLC
Suburban Sanitation Service

Memorial Donations

Robert Donlin
Craig Radocy
Ruth C. Weston

Friends of the Farmington River Watershed — Supporters in FY21-22

\$5,000+

Katherine Wadsworth & Ross Delano-Wadsworth
Anonymous
Mr. Rick Bauer
The Estate of Lily Frey

\$1,000+

Barbourtown Foundation
Richard & Diane Brainerd
Lynne and Austin Carey
Mr. Michael Feldman
Alan Kreczko & Rebecca Latimer
Ted & Adlyn Loewenthal
Donald & Sally Rieger
The Fortin Foundation Inc.
Rick & Kristi Warters
Wilson Wilde Family Foundation
Wendy Sorenson

\$500+

Kevin & Robin Baran
Jay Bombara & Allison Bombera
Patricia Constantinos
Martin Dodd
Robert Feldman & Adrienne Plotch
Brian & Charlotte Freeman
David & Brigid Frey
Paul & Jill Hanson
Sarah & Dan Hincks
James Judge
Mr. Larry Lunden
Robert & Margaret Patricelli
Charles & Mary Petras
Stephen & Polly Philbrick
Elenor Reid
Vic & Brenda Schoen
Peter & Barbara Setlow
Judith & Robert Sturgis
Celeste Suggs & Joel Zackin

\$250+

Ms. Ginny Apple
Chris & Mary Baier
Allen & Patricia Boyce
Mr. Phil Brencher, Jr.
Heather Carroll
Ellen & Richard Cartun
Chris Casorio
Ruth Cutler
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Ann & Edward Jurkiewicz
James Keller & Candice Chirgotis
Andres & Mirje Kukk
John Laudati
Cynthia Mackay
Susan Masino & Dave Galt
Andrew & Dorothy Mason
Thomas & Sandra McGee
Susan and Steven Meholic
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Maureen Mohyde & Liane Stevens
Mary Moulton
Carol Noble
John Nulsen
Brie Quinby & Evan Cowles
Mr. John E. Robinson
Andy & Myrna Rothstein
Peter & Margaret Sexton
David & Carrie Sinish
Melita Sokolowski
Joseph & Mary Jane Springman
Jonathan & Tara Thompson
Sam & Heather Tomasetti
Milledge West
Chris & Lee Whelan
Ruth L. Woodford

Friends of the Farmington River Watershed

Our \$100+ Supporters in FY21-22

Jonathan & Karen Abels
 Roger & Nancy Adams
 Peter & Pam Albertsen
 Ellen Babcock
 Ms. Susan R. Barney
 Lesly Bartlett & Suzanne Matulis
 Rick & Bertie Bauer
 Jeffrey & Annette Beach
 Jan Beatty & Michael Park
 Steve & Elizabeth Beaudin
 Ned Benton & Judy Silberstein
 Steven & Karen Bristol
 Brookside Farm Association
 Mr. John M. Buckey
 Susan Bullock
 John & Linda Carmon
 Lynn Cavo
 Dom & Dorie Cinti
 Ian & Carolyn Clark
 Shawn & Ela Cole
 Meredith & Kathleen Colket
 Kathleen Colpitts
 Connecticut Valley Garden Club
 Mrs. C. Lynne Creed
 James & Sharon Creighton
 CT Fly Fisherman's Association
 Mr. Paul Cummings
 Carolyn Cutler
 Ed Marchena & Jean Darlington
 Enzo & Franca DeDominicis
 James & Elise DeFrank
 Ms. Nicole DeLong
 Sheila Diamond
 Bonnie Jean Dibelius
 Kathy Dolan
 Mary Ducor
 Vera Ehnen
 Eleanor Elkins
 David & Jenny Emery
 Ms. Linea N. Erickson
 Donna Eriksen & Tom Finan
 Dennis & Sylvia Evans
 Kevin Farmer & Cheryl Cundall
 Dr. Frederick Feibel
 Ian & Carol Feldman
 Michael & Jean Festa
 Don & Patricia Flannery
 Jim & Marianne Flynn
 Theresa Formaggioni
 Donna Frank
 Betty Friedman & Ed Goldberg
 Gardeners of Simsbury
 Mr. & Mrs. Wilhelm Gauster
 Ken & Jenn Geisler
 Marion T. Gilmore
 Kevin Gough & Paula Jones
 Joseph & Janet Grasso
 Robert & Lisa Green
 Ruth Grobe
 David & Sara Hadden
 David & Patricia Hadlow

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 Chip & Julie Harrison
 Frank Haviland & Shirley Mae Neu
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 Mr. Jay Kaplan
 Thomas Kassin
 Jeffery Keener & Janet Loynes
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 Katherine Kinane
 Ms. Judith D. King
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 John & Linda Kulick
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 Joanne Lawson
 Deborah Leonard
 Timothy Lewis
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 Alan & Carole MacKenzie
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 Henry H. Mason
 Robert McCue
 John & Sarah Meiklejohn
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 Hydie & Michael Miller
 Gary & Patricia Moeller
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 Robert & Margaret Murphy
 Paul Murphy
 David & Beverly Nagy
 Mr. & Mrs. William E. Neff III
 Patrice Nelson
 Richard O'Donnell
 Max & Dottie O'Meara
 Stephen & Kristina Osborn
 Keith & Ann Palmer
 Raymond & Eve Pech
 Sibyl Pellum
 Alan & Sherry Perrie
 Mrs. Julia Parker Post

Lynn & Robert Preminger
 Albert & Phyllis Racine
 Jim & Ann Reed
 Mr. Louis Reik
 Ellen Retelle
 Paul Rochford
 Skip & Nancy Rogers
 Kenneth R. Rohde
 Judith Rosenberg
 Ms. Julia Rosenblum
 Caren & W. Gordon Ross
 Raymond & Diana Roy
 Karel Rubinstein & Howard Tennen
 Michael & Deborah Sacks
 Robert & Rebecca Sahl
 John & Judy Schaefer
 Karin Schneider & Robert Krzys
 Peter & Marcy Schulman
 Earl & Cindy Schulz
 David Schupp
 Ieke & Mark Scully
 Jonathan & Beverly Seymour
 Joyce Driscoll & Russell Shaw, Jr.
 Christopher & Natalie Sihpol
 Lynn Simpson & Janet Conlin
 Joe & Angela Sinicrope
 Clare Smith and Alexander Brown
 Robert & Sharon Smith
 Marlene & A.J. Snecinski
 Clark & Cheryl Spencer
 Ms. Brenda Sullivan
 Glenn Barger & Theresa Sullivan-Barger
 Marcia Sutton
 Dr. John and Jean Sziklas
 Richard & Jane Tedder
 Joe Treacy
 Mr. Louis Tremblay
 Mr. James J. Trocchi
 Jeff Verney
 Matt & Elizabeth Vinick
 The Waldeck Family
 Timothy & Karen Ward
 Dr. Faith Weidner & Mr. James Miller
 Mr. Alan L. Weiner
 Jay & Sandra Weintraub
 Ms. Linda Weintraub
 David Westcott & Gail Weed
 Ms. Caroline White
 Mike & Judy Whittlesey
 Alfred & Helen Wilke
 Ms. Suzanne Wilkins Berl
 Sarah and Scott Willett
 Terri & Lee Wilson
 Mary Porter Wright & John Pardee Wright
 Mr. Joel B. Wulff
 Frank Zacchera
 The Zahorodni Family
 Robert & Betty Zawacki
 Amy & Lawrence Zeiner

Special Recognition

Thanks to our 2021-2022 friends and volunteers for helping us
protect water quality in the Farmington River Watershed!

Water Quality Monitoring

Dave Cappello
Tessa Petras-Lkhayer
Susan Olson
Alisa Phillips-Griggs
David & Carrie Sinish
Paul Spirito
Dr. Ken Wagner
CT DEEP
Camp Shalom
Ensign-Bickford Company
Farmington River Power Company
Gifts of Love Farm
Miss Porter's School
Simsbury Water Pollution Control Authority
UCONN CESE Laboratory

FRWA Riparian Buffer Enhancements

Marian Blawie Brown
Ronie Brown
Erik Christensen
Elizabeth DiLernia
Christopher Hill
Jennifer Perga
Cynthia Rabinowitz
Bristol Eastern High School
City of Bristol Parks & Recreation
City of Winchester
Northwest Conservation District
Pequabuck River Watershed Association

Hobo Stream Temperature Monitoring

Farmington Valley Trout Unlimited
Han Solo Silva (*puppy*)
Tom Vichiola

Educational Partners

Bristol Eastern High School
Environmental Learning Centers of CT
Lewis Mills High School
Montessori School of Greater Hartford

River Clean-Up Assistance (2022)

Jen Filer
Brian Freeman
Ann Jurkiewicz
Mike Krammen
Leeane Marvin
Jen Perga
Andrew Petitdemange
Town of Avon
Collinsville Canoe & Kayak
Farmington River Anglers Association
McLean Game Refuge
Waste Material Trucking
Town of Windsor
Town of Winsted

Macroinvertebrates & RBV

James Buchok
Tom Carpenter
Jan Dommel
Alisa Phillips-Griggs
Montessori School of Greater Hartford
McLean Game Refuge
Lewis Mills High School

Frey Property Volunteers

Susie Barney
James Buchok
Tom Carpenter
Michael Feldman
Brian Freeman
Christopher Hill
Nova Hart Hill (*1 year old*)
Ann Jurkiewicz
Andy Kuhlberg
Chet Reed
Vic & Brenda Schoen
Marlene Snecinski
Rick & Kristi Warters
Farmington Valley Trout Unlimited

FRWA Board of Directors

We thank our fantastic Board for their hard work and steadfast commitment to protecting and restoring the Farmington River Watershed!

New Board Nominee

Christopher Whalen

Nominees for Renewed Three Year Terms

Susie Barney

Marlene Snecinski

Proposed Slate of Officers for 2022 (One Year Term)

President, Carol Noble

Vice President, John Laudati

Vice President, Robin Baran

Secretary, Beckie Sahl

Treasurer, Brian Freeman

Current FRWA Board Members

Ginny Apple

Robin Baran

Susan Barney

David Donaldson, Jr.

Michael Feldman

Brian Freeman

Chip Harrison

Ann Jurkiewicz

Andy Kuhlberg

John Laudati

Debbie Leonard

Carol Noble

John E. Robinson

Beckie Sahl

Vic Schoen

David Sinish

Marlene Snecinski

Rick Wartens

Guy West

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Laura Hart – Conservation Director

Heather Geist – Education & Outreach Manager

Paige Vichiola – Watershed Manager

FRWA River Stewards

Ciara Kilkenny

Kelsey Murray

David Baldwin – Yale Conservation Fellow

GIS Manager

Judah Shingleton