



University
of Vermont

College of Agriculture and Life Sciences
Proctor Maple Research Center

UNIVERSITY OF VERMONT PROCTOR MAPLE RESEARCH CENTER

2025 Annual Report

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Year in Review

2025 PMRC Team (pg. 2)

Research Projects (pg. 3)

Courses & Education (pg. 4)

Events & Outreach (pg. 5)

2025 Sugaring Season (pg. 6)

Awards & Collaborations (pg. 7)





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2025 PMRC Team

Proctor Maple Research Center (PMRC) Staff

Jed Abair, *Maple Operations Assistant*

Wade Bosley, *Maple Operations Manager*

Hannah Penkacik, *Maple Operations Assistant*

Phoebe Plank, *Outreach Professional*

Tim Rademacher, *Director of Scientific Research, Assistant Professor*

UVM Partners

Mark Canella, *UVM Extension Farm Business Management Specialist, Associate Professor*

Sonia DeYoung, *Field Naturalist Program Assistant Director, Exhibits & Outreach Coordinator*

Joanna Haas, *UVM Extension Maple Quality Specialist*

Mark Isselhardt, *UVM Extension Maple Program Specialist*

Guy Roberts, *UVM CALS Facilities Director*

Research Students

Naya Banerjee, <i>Field Naturalist MS</i>	Isaac Damon, <i>Undergraduate</i>
Teaghan McAllister, <i>Plant Biology PhD</i>	Emma Griffith, <i>Undergraduate</i>
Hannah McNulty, <i>Plant Biology PhD</i>	Kaleigh Kiernan, <i>Undergraduate</i>
Garrett Simon, <i>Natural Resources PhD</i>	Ainsley Redd, <i>Undergraduate</i>
Matthias Sirch, <i>Field Naturalist MS</i>	Walt Regan-loomis, <i>Undergraduate</i>
	Larry Robinson, <i>Undergraduate</i>
	Sophie Williams, <i>Undergraduate</i>





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Research Projects

Summer 2025 Projects

- Biodiversity surveys
 - Forest composition and species diversity
 - Fungus and moss identification
 - Tubing and wildlife interactions
- Tree growth surveys

Ongoing Research

- Efficiency of antimicrobial tubing and spouts for sap collection
- Studying the long-term effects of tapping and sap extraction on tree health
- Studying sugar maple genetics
- Exploring the interactions between biodiversity and maple sugaring
- Comparing sugaring characteristics of red versus sugar maple
- Maple Syrup Quality Testing Lab (UVM Extension)



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Courses & Education

Undergraduate Course

- Launched *Maple Sugaring in a Changing Environment*
 - Introduce students to the science and practice of maple sugaring while exploring how environmental and socio-economic changes impact the process
 - Provide hands-on learning at PMRC

UVM Maple Club

- Supported establishment of UVM Maple Club, a student-run club dedicated to learning about maple

Workshops

- Hosted three educational workshops highlighting sugarbush biodiversity and organic maple certification with Audubon Vermont, NOFA Vermont, Vermont Organic Farmers, UVM Extension, and Vermont Maple Sugar Makers' Association



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Events & Outreach

Events & Tours

- Held 19 events that engaged over 300 visitors
 - Highlights included:
 - State of Vermont Maple Meeting
 - PMRC Sugar on Snow Party
 - Maple Days with Dean Linda Prokopy and President Marlene Tromp
 - UVM Farm Fest
 - UVM Extension New Faculty Tour
 - Society of American Foresters Tour
- Participated in 20 interviews with media

Ongoing Outreach Projects

- Maple Career Development Event for technical high schoolers with UVM Extension and Shelburne Farms
- Maple education booth at Champlain Valley Fair with UVM Extension and Chittenden County Sugar Makers' Association
- PMRC historical archive preservation
- Development of mini museum to showcase integration of maple science and production





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2025 Sugaring Season

Season Stats

- Tapping dates: January 13-February 7, 2025
- First sap flow: February 26, 2025
- First boil: March 14, 2025
- Last boil: April 18, 2025
- Average sugar concentration: 1.78°Brix
- Number of trees tapped: 6,661
- Gallons of syrup produced: 3,365

Syrup Sales

- Record sales on UVM campus through Sodexo
- Expanded sales to Champlain College and St. Michael's College





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Awards

Tim Rademacher, *International Maple Syrup Institute President's Award*

Emma Griffith, *UVM Food Systems Research Institute SURF Award*

Walt Regan-loomis, *UVM Food Systems Research Institute SURF Award*

Sophie Williams, *UVM Internship Scholarship*

Collaborations

UVM Extension

UVM Food Systems Research Institute

Smokey House Center

Zero Gravity Brewery





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**Thank you to all who contributed to
Proctor Maple Research Center's 2025 achievements!
Please consider donating to support future
maple research, education, and outreach at UVM.**

Visit the link below to give today!

<https://go.uvm.edu/giveproctormapleresearchcenterfund>

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