



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

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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, *Field Naturalist MS*

Teaghan McAllister, *Plant Biology PhD*

Hannah McNulty, *Plant Biology PhD*

Garrett Simon, *Natural Resources PhD*

Matthias Sirch, *Field Naturalist MS*

Isaac Damon, *Undergraduate*

Emma Griffith, *Undergraduate*

Kaleigh Kiernan, *Undergraduate*

Ainsley Redd, *Undergraduate*

Walt Regan-loomis, *Undergraduate*

Larry Robinson, *Undergraduate*

Sophie Williams, *Undergraduate*





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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





**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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