

RECAP OF THE 2017 SEASON

TERENCE BRADSHAW
UNIVERSITY OF VERMONT

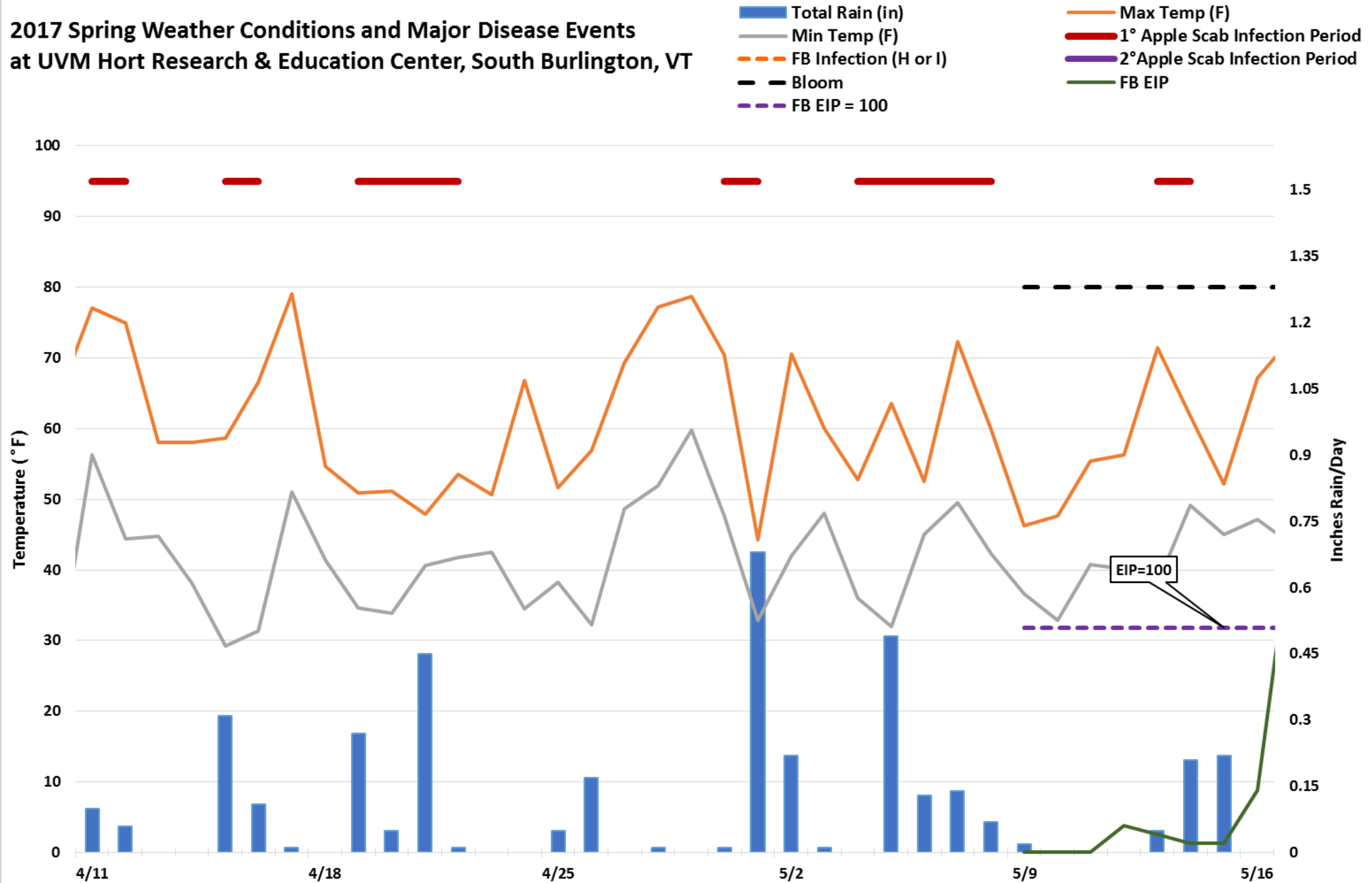
122ND ANNUAL VTFGA & UVM APPLE PROGRAM ANNUAL MEETING
FEBRUARY 15, 2018



2017: Year of averages

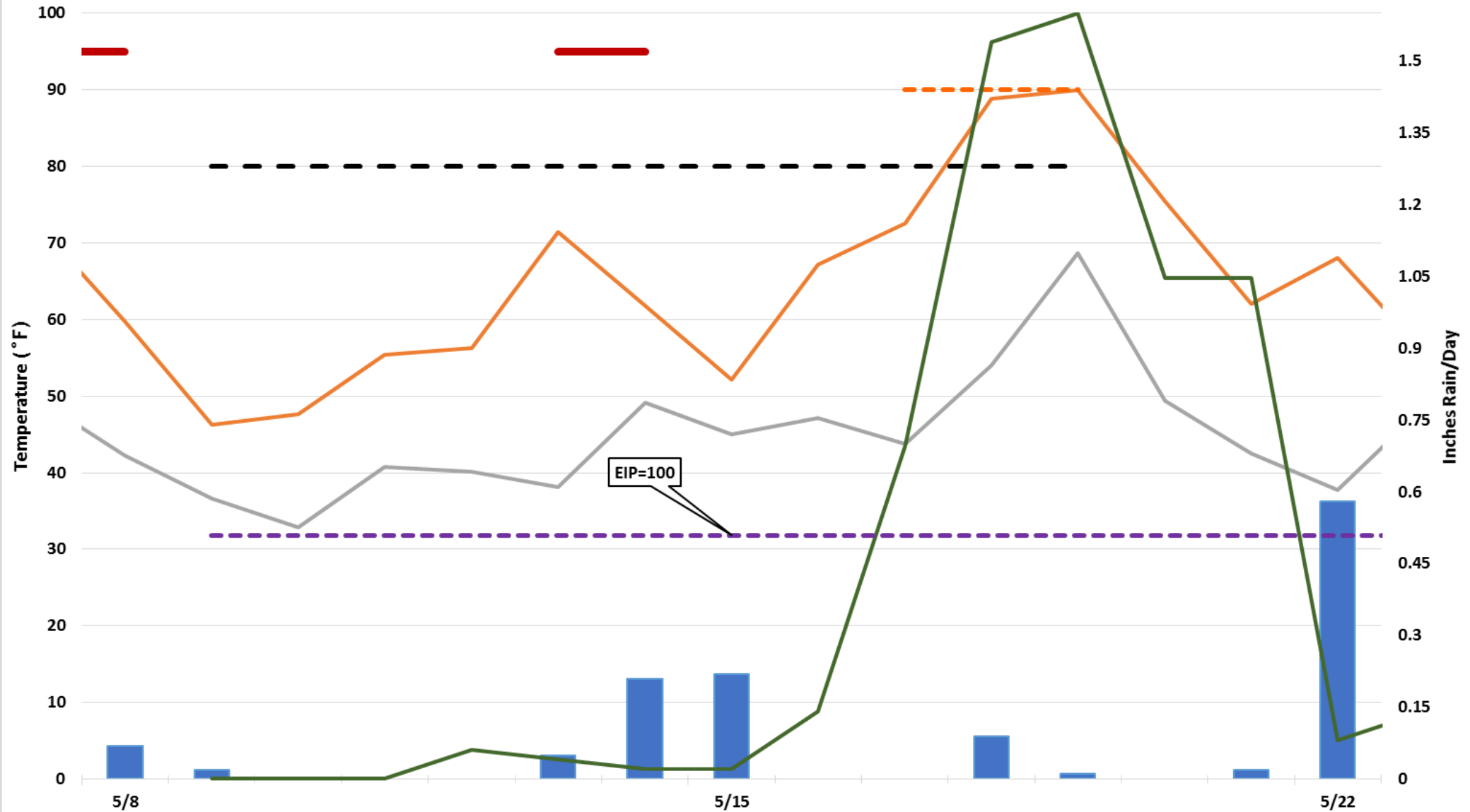


2017 Spring Weather Conditions and Major Disease Events at UVM Hort Research & Education Center, South Burlington, VT

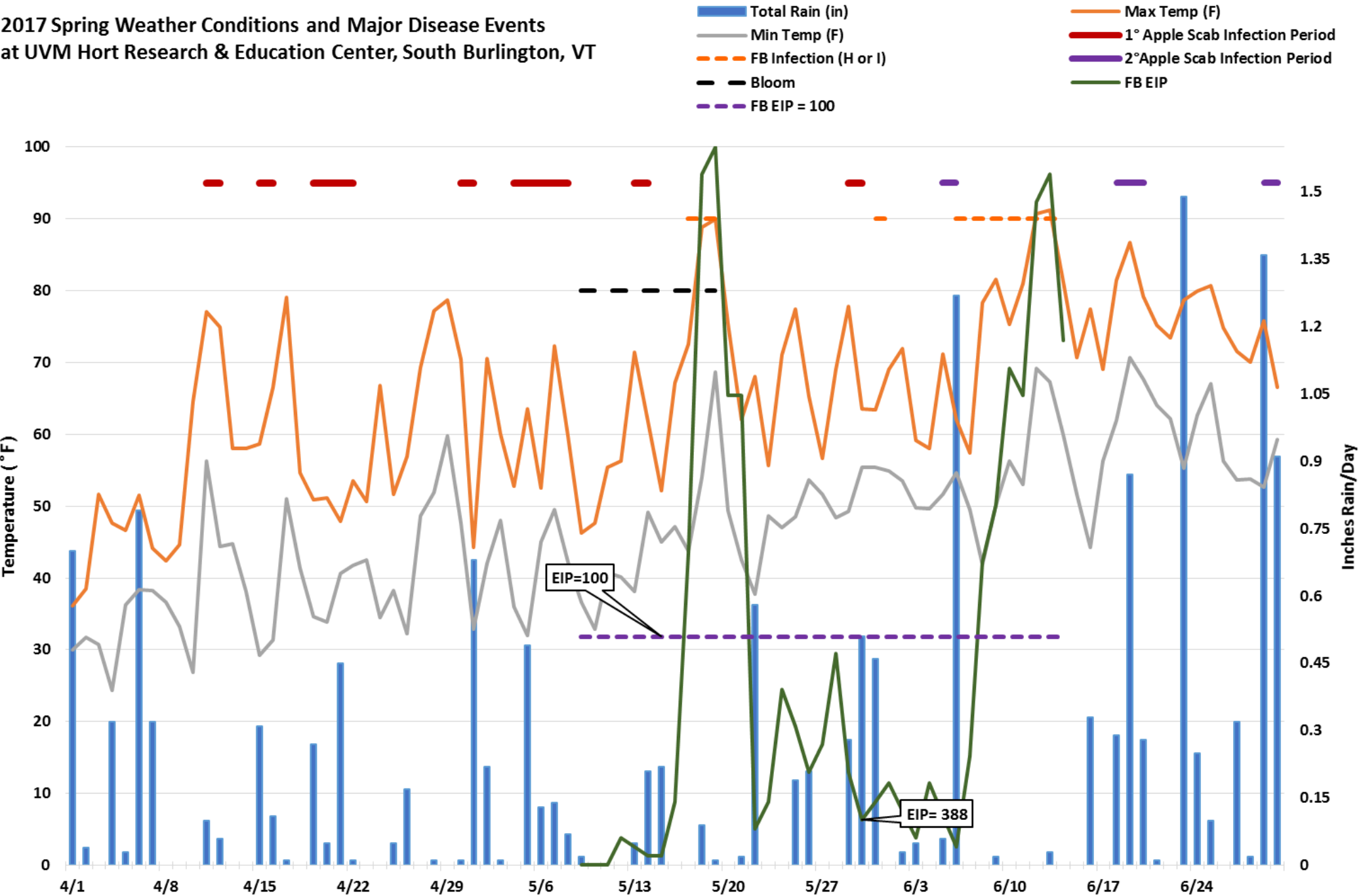


2017 Spring Weather Conditions and Major Disease Events at UVM Hort Research & Education Center, South Burlington, VT

- Total Rain (in)
- Min Temp (F)
- FB Infection (H or I)
- Bloom
- FB EIP = 100
- Max Temp (F)
- 1° Apple Scab Infection Period
- 2° Apple Scab Infection Period
- FB EIP



2017 Spring Weather Conditions and Major Disease Events
at UVM Hort Research & Education Center, South Burlington, VT



2017 apple scab

- Difficulty getting on wet ground
- Scab was relatively easy to manage if you could get out there
 - A good bit of scab in low-spray orchards
 - Decimating if unsprayed
- 2018: Be ready to cover early if scab inoculum carried over
- Keep an eye out for black rot, rust, etc as well



2017 Fire blight

Largely a non-issue

- Weather just wasn't conducive during bloom
- Some infection on later blooming cultivars
- Keep your eyes out during pruning
- Be ready in 2018- FB is the New Normal in VT



2017 Insects

- Considerable focus in 2017, 2018
- Continued scouting program
- Focus on pollinators



H.688: An act relating to pollinator protection



2017 VT Apple Grower IPM Survey

Table 5. Practices employed to improve crop pollination or reduce impacts on pollinators in respondent's orchards

	Yes	No	Unsure
Use of migratory honey bees during bloom	54.5%	36.4%	9.1%
Keeping honey bees on the orchard property year-round	9.1%	90.9%	0.0%
Use of purchased bumble bees in the orchard	20.0%	80.0%	0.0%
Reliance on wild bees for pollination	54.5%	45.5%	0.0%
Use of nest boxes to encourage wild bee populations	9.1%	81.8%	9.1%
Minimum tillage to improve ground bee habitat	72.7%	18.2%	9.1%
Not spraying insecticides during apple bloom	100.0%	0.0%	0.0%
Not spraying insecticides when any plants are blooming in the orchard	45.5%	45.5%	9.1%
Mowing to reduce flowering weeds prior to spraying	72.7%	27.3%	0.0%
Herbicides to reduce flowering weeds prior to spraying	9.1%	72.7%	18.2%
Maintaining flowering habitat within the orchard to encourage pollinators	27.3%	63.6%	9.1%
Maintaining flowering habitat outside but near the orchard to encourage pollinators	81.8%	9.1%	9.1%
Avoiding use of neonicotinoid insecticides	63.6%	36.4%	0.0%
Avoiding use of neonicotinoid insecticides before bloom	100.0%	0.0%	0.0%
Avoiding use of pesticides rated highly toxic to bees	81.8%	18.2%	0.0%
Avoiding use of demethylase/sterol inhibitor fungicides during bloom	90.9%	9.1%	0.0%

2018 (?) Farm Bill

Items to keep watch of:

- Specialty Crops
 - (Research Initiative , Block Grants)
- Foundation for Food & Agriculture (pollinator program)
- Section 32 Produce purchases
- Fresh Fruit & Veg Program
- Crop Insurance



2018 New England Tree Fruit Management Guide

Available now in reduced form:

NETREEFRUIT.ORG

Material migrating over as we speak

Printed guide available by spring

New England

Tree Fruit Management Guide

 Search[IPM](#)[Apples](#)[Pears](#)[Stone Fruit](#)[Weeds](#)[Sprayer Calibration](#)[Wildlife](#)[Organic](#)[Crop Insurance](#)

Welcome to the on-line New England Tree Fruit Management Guide

Note that this is a work-in-progress, and not all Chapters and sub-Chapters are complete, however, we have made an effort to get the Spray Tables done so you have the most recent crop protectant recommendations. Of course you should always follow the label, that information supercedes anything herein. Also note you should have a print icon on all pages, so you can print anything you want and hang it on the wall of your spray shed/office, etc.

Please let us know if you have any comments, suggestions for improvement, questions, etc.

Jon Clements and **Daniel Cooley**, University of Massachusetts

Mary Concklin, University of Connecticut

Heather Faubert, University of Rhode Island

Terry Bradshaw, University of Vermont

George Hamilton and **Alan Eaton**, University of New Hampshire

Glen Koehler and **Renae Moran**, University of Maine



COLLEGE OF AGRICULTURE AND LIFE SCIENCES
UNIVERSITY OF VERMONT

Thank you

- UVM Apple Program
- Crop Production Services, Addison, VT
- Vermont Agriculture Experiment Station
- USDA NIFA CPPM #VTN29202
- UVM Agricultural Risk Management and Crop Insurance Education Program
RM17RMETS524005

