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Spring 4-16-2020

## **2020 Bogside April 16: MDAR, Winter Moth and Scale**

Martha Sylvia

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# Virtual Lunchtime Bogside MDAR, Gypsy Moth and Scale

Marty Sylvia, Anne Averill, and the bugs

April 16, 2020

UMass Cranberry Station



# MDAR Pesticide Program

(Bulletin 2020-09 March 25, 2020)

*All Exams and  
trainings cancelled*

- Cancelled all Pesticide Exams in March and April
- No Sign Up for Exams until further notice
- Many trainings and recertification workshops are cancelled

# MDAR Pesticide Program

(Bulletin 2020-07 March 24, 2020)

*Audit time  
extended to  
December*

If your three-year recertification cycle ends in Calendar Year (CY) 2020...

- Audit time extending the time permitted to earn credits from **June to December 2020**
- Waive the limit on the number of accepted computer-based or online credits or contact hours. Any portion, or all of the needed training credits, can come from online sources

# MDAR Pesticide Program

(Bulletin 2020-07 March 24, 2020)

*Audits to be  
submitted  
electronically*

- Department is working to develop a process whereby pesticide license holders will submit their recertification certificates (credits) via the EEA ePLACE Portal
- This online process will deploy in late summer / early fall of CY 2020
- The Department will use this online process to collect the retraining or recertification training certificates
- Individuals whose three-year retraining cycle ends on July 1, 2020, or later will be required to upload their retraining or recertification certificates (credits) into their EEA ePLACE Portal Accounts as part of their CY 2021 license renewal process

# Winter Moth

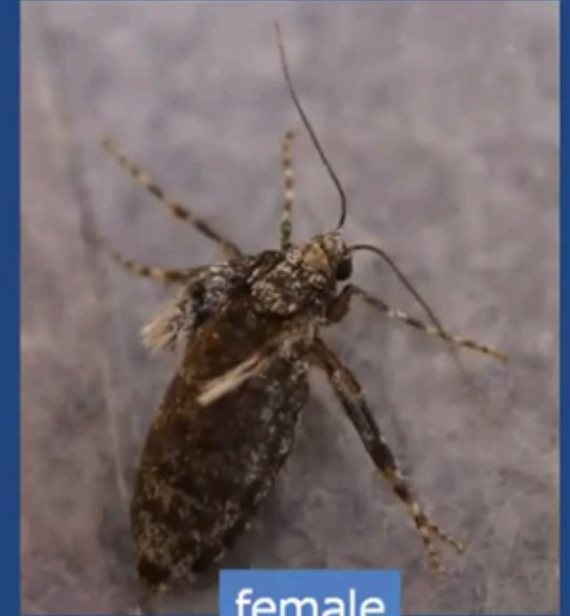
- Moths fly in **November-December**
- Populations have **crashed**
- Unlikely to have infestation
- **UNLESS** you saw moths in your area late fall 2019

Winter moth adults  
Start emerging ~Thanksgiving



male

Photo Bob Childs, UMass



female

# Winter Moth

(April 14, 2020 update)

- RI monitors eggs hatch in three locations (Kingston, Charlestown, and Portsmouth)
- Most eggs have hatched by now, but the caterpillars are tiny and difficult to see
- Next week will be a good time to check fruit buds for winter moth caterpillars
  - Apple or blueberry
- Pull flower buds apart and look for small caterpillars or insect frass
- It's much easier to find frass than caterpillars



Apple buds pulled apart and finding winter moth caterpillars and frass.

# Winter Moth



Blueberry bud pulled apart showing winter moth frass. A caterpillar is in lower part of bud



Apple buds pulled apart and finding winter moth caterpillars and frass



# Winter Moth

(April 14, 2020 update)

- Landscape trees should scout for winter moth caterpillars in a couple of weeks, once caterpillars are larger and easier to find
- On cranberry, look on most advanced pieces, in another week or two

Look at surrounding trees



# Winter moth Biological Control

- Parasitoid - *Cyzenis albicans*



# Gypsy Moth

- Gypsy moth caterpillars did very little defoliation or damage last spring
- A few pockets of high gypsy moth populations in 2019
- Wet weather in June allowed the fungus, **Entomophaga maimaiga**, to again kill most gypsy moth caterpillars just like in 2017 (the big epizootic event)
- A beautiful sight!



Dead gypsy moth caterpillars in Burrillville June 26, 2019.

# Winter moth and Gypsy Moth

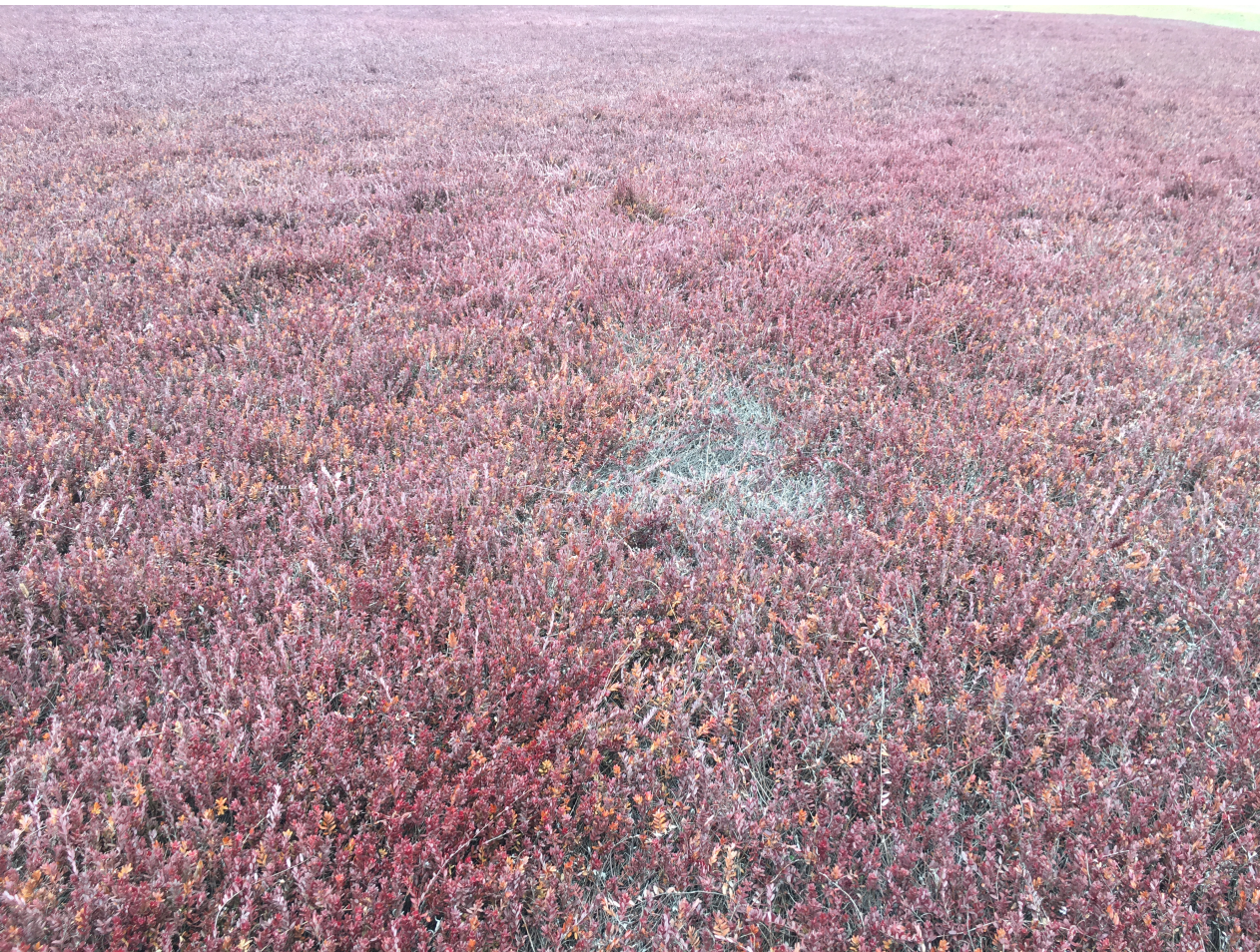
- Early infestations
- Take out the cabbagehead
- Blackheaded fireworm
- Cutworms
- Loopers (spanworms)



An old Franklin photo shows the "cabbage-head" feeding damage done by gypsy moth larvae. (Photo: Franklin 1948a)



# Scale

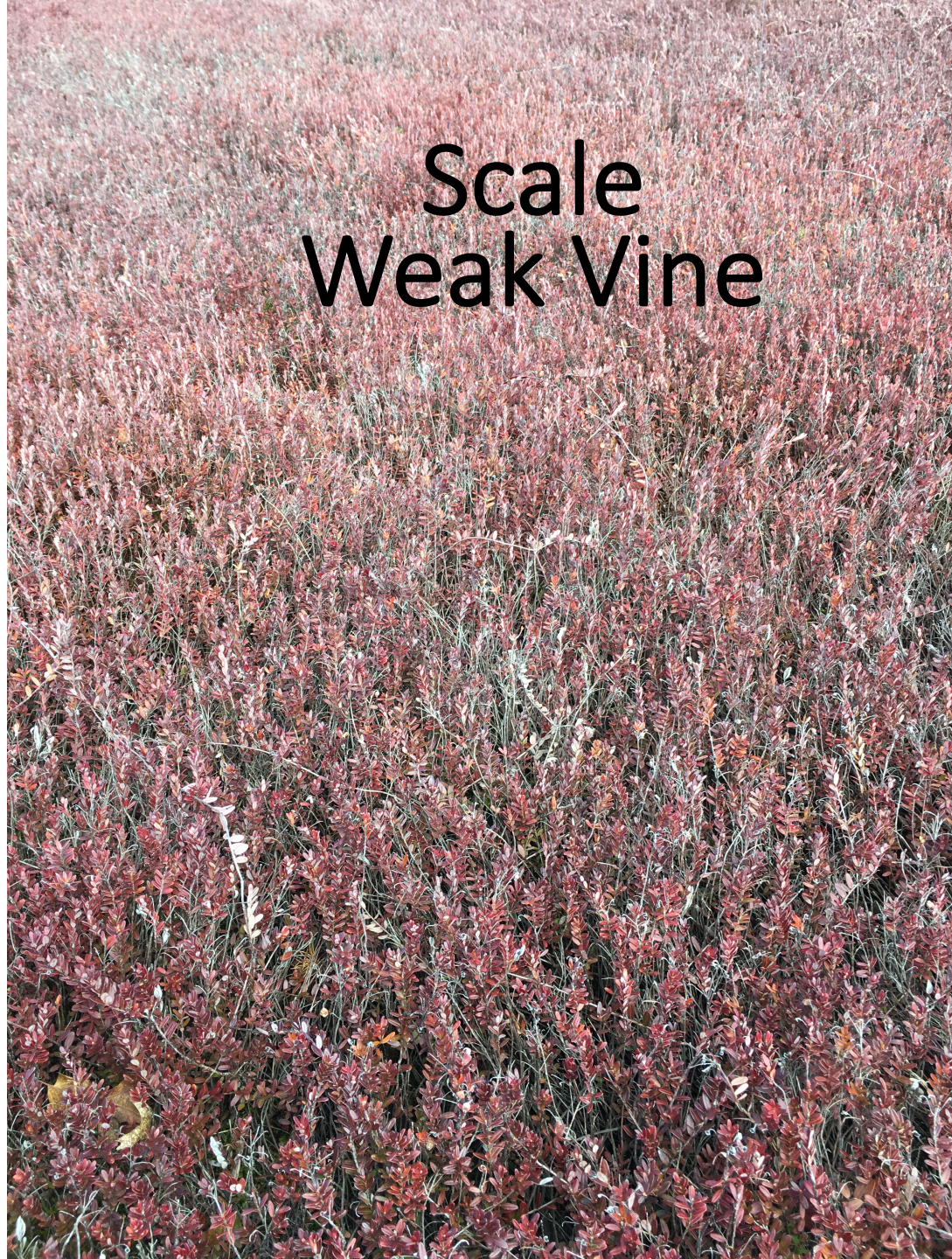




# Scale



Not Scale  
Upright Dieback



Scale  
Weak Vine

# Scale dead spots vs. weak areas



Dead spots are an indication of intense infestation, years old

Weak areas are an indication of a more spread out infestation, moderate infestation, but can still be years old

# Scale

Winter Kill with Scale Damage  
last years damage at this time





Raging populations are easier to tell  
if you can see the many many scale  
piled up on an upright  
BUT more and more we are seeing  
cryptic low level infestations that  
cannot be seen with unaided eye



Scale



If you think you have a scale infestation, get 20-40 uprights in a bag including the lowest part of the upright. Drop off at station or communicate with me!

Putnam Scale



Latania Scale

