

# Seasonal Occurrence of Redberry Mite Populations in a Six -Year Old Prime Ark<sup>®</sup> 45 Planting

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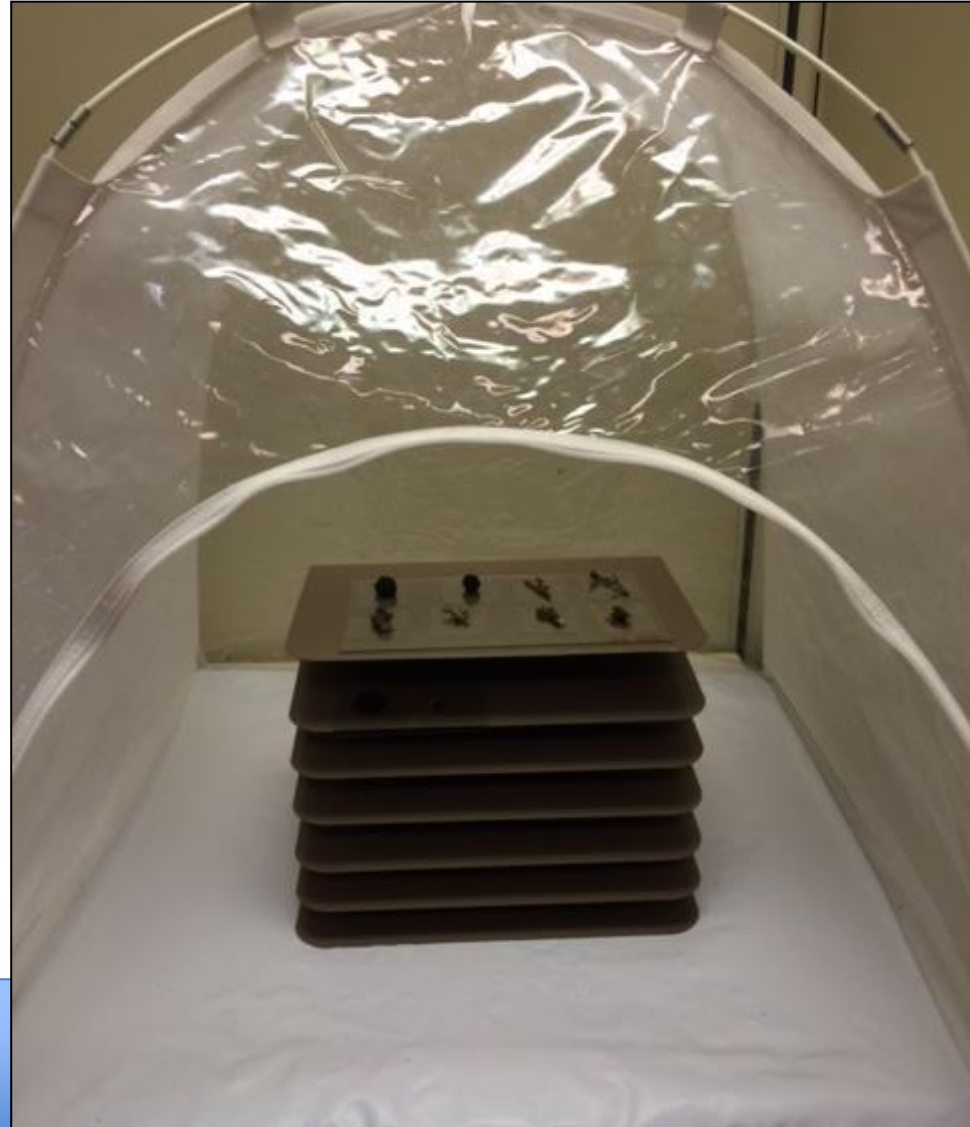
# Sampling sites

- 2 fields with Prime Ark® 45
  - San Luis Obispo, Nipomo
  - March-Nov
- 1 stand of wild blackberry
  - San Luis Obispo
  - May-Nov



# Tape Capture Method

- Material set on tape on glass panel
- Housed in bug tents
- Dry for two + weeks

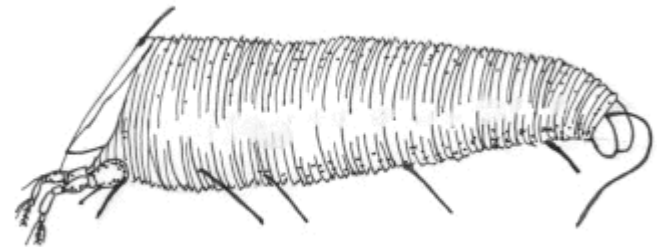


# Findings

- 2 fields with Prime Ark<sup>®</sup> 45 – 0 emergence

# Findings – wild blackberry

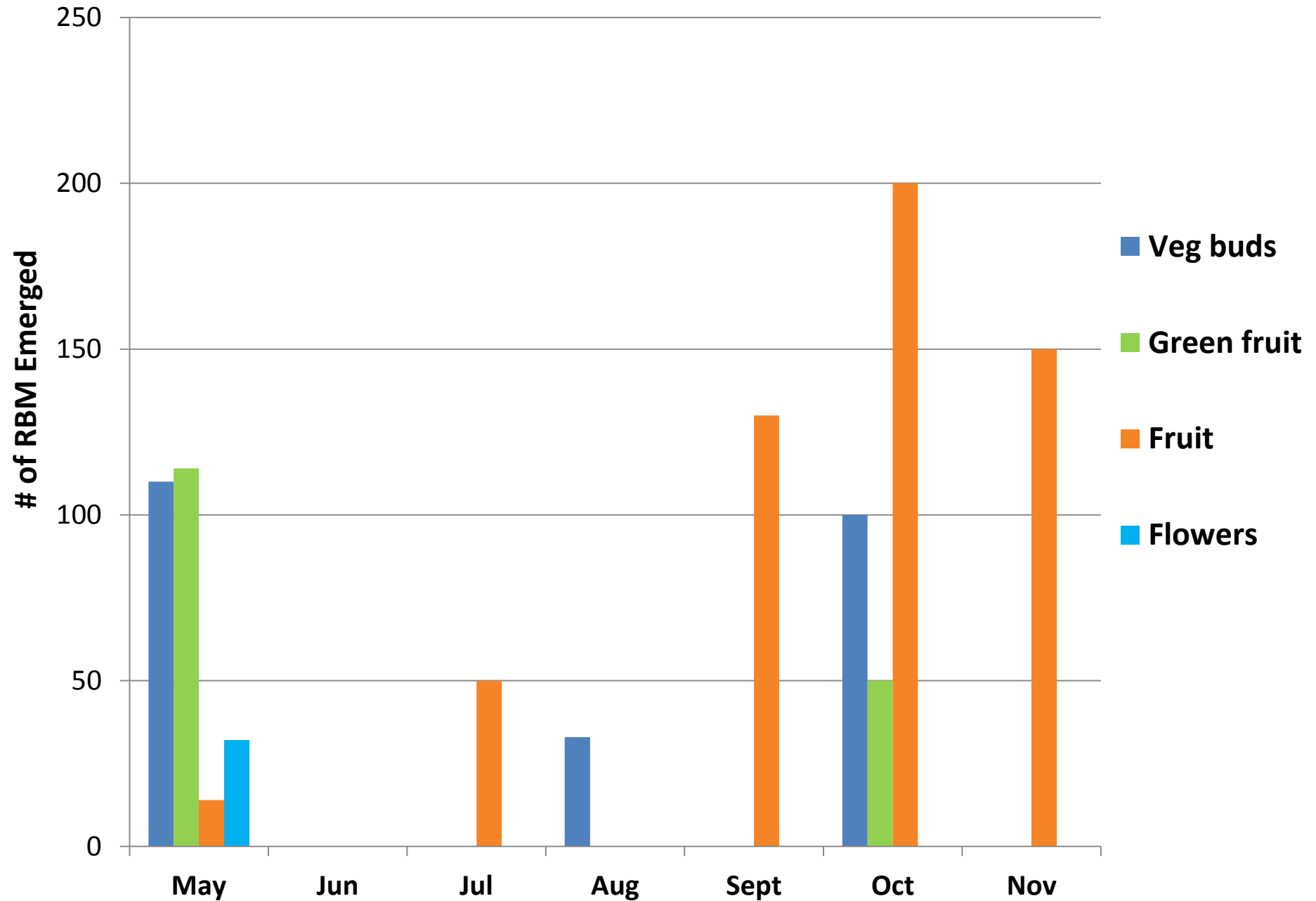
- emergence from 42% of vegetative buds
- 9% - flowers
- 9% - green fruit
- 44% - fruit



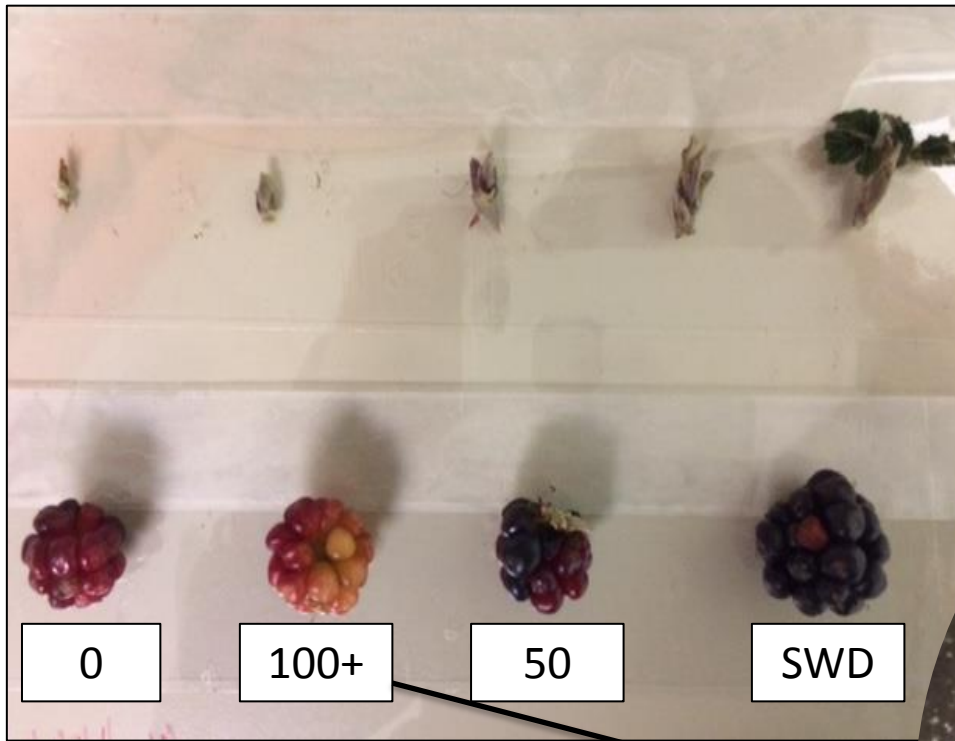
*Acalitus essigi*

Illustration by Karin Ling

# RBM Emergence - Wild Blackberry



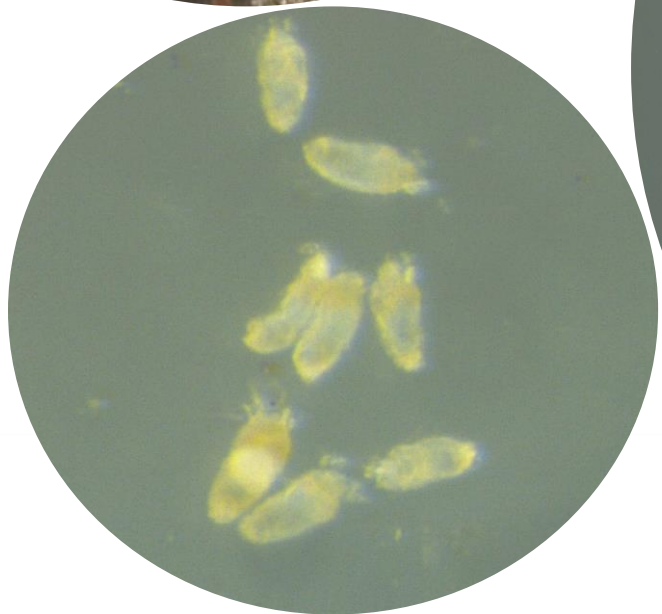
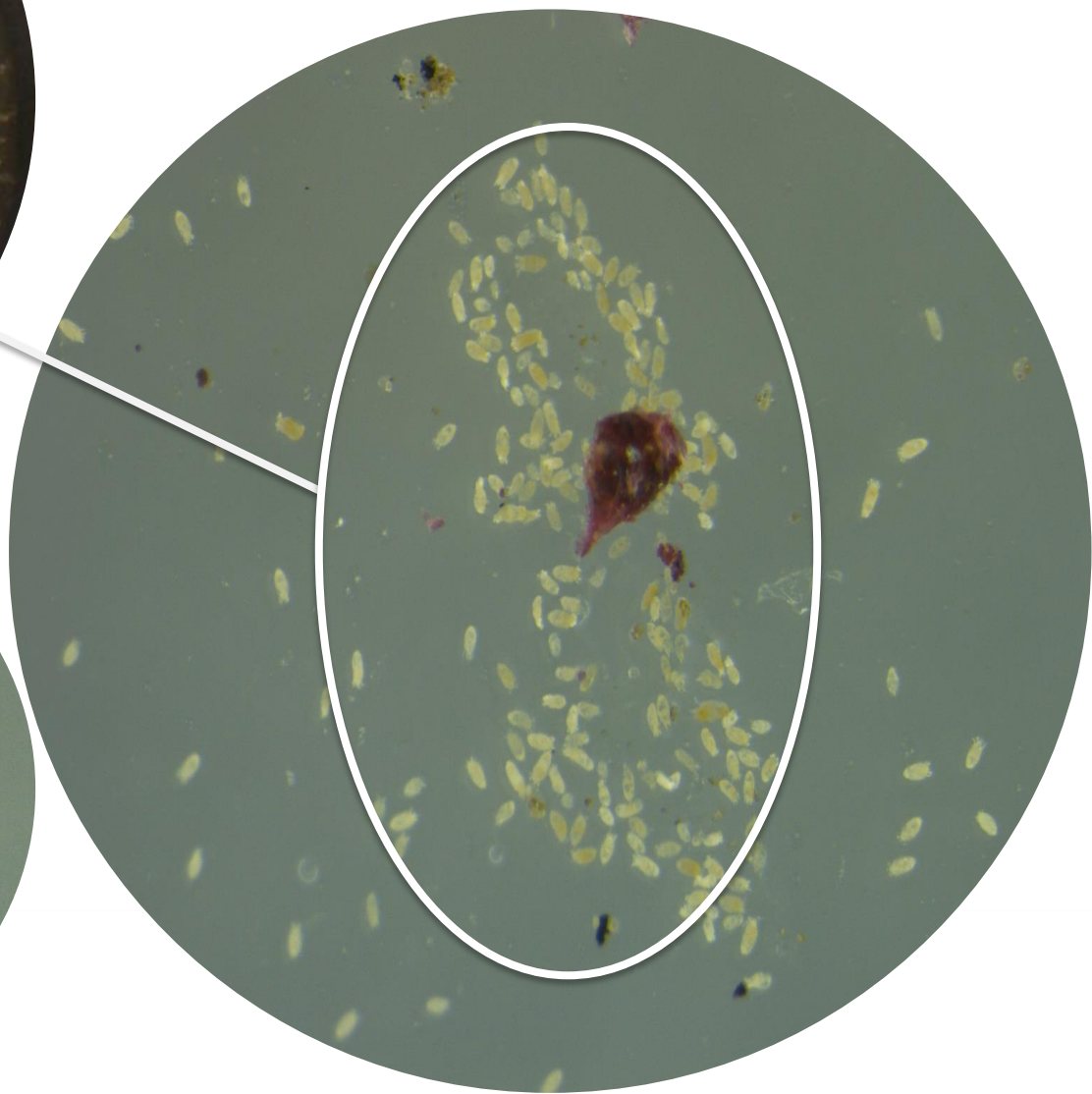
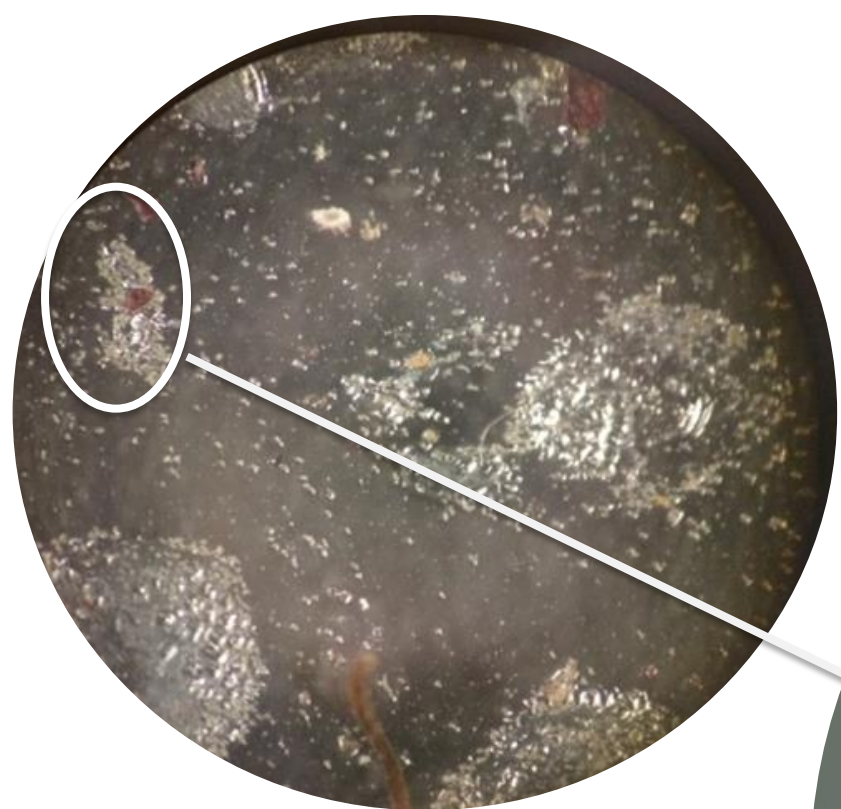
# Findings



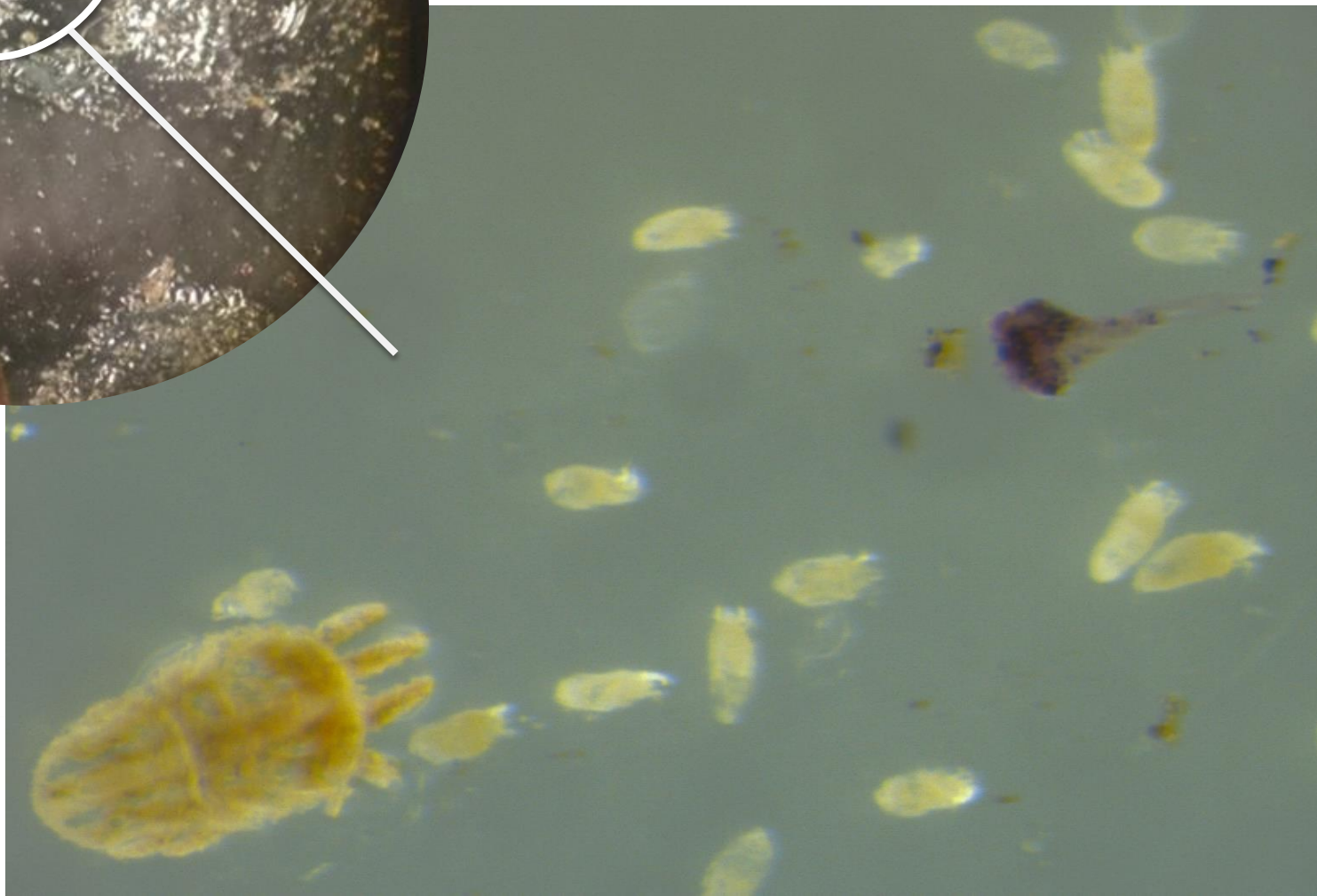
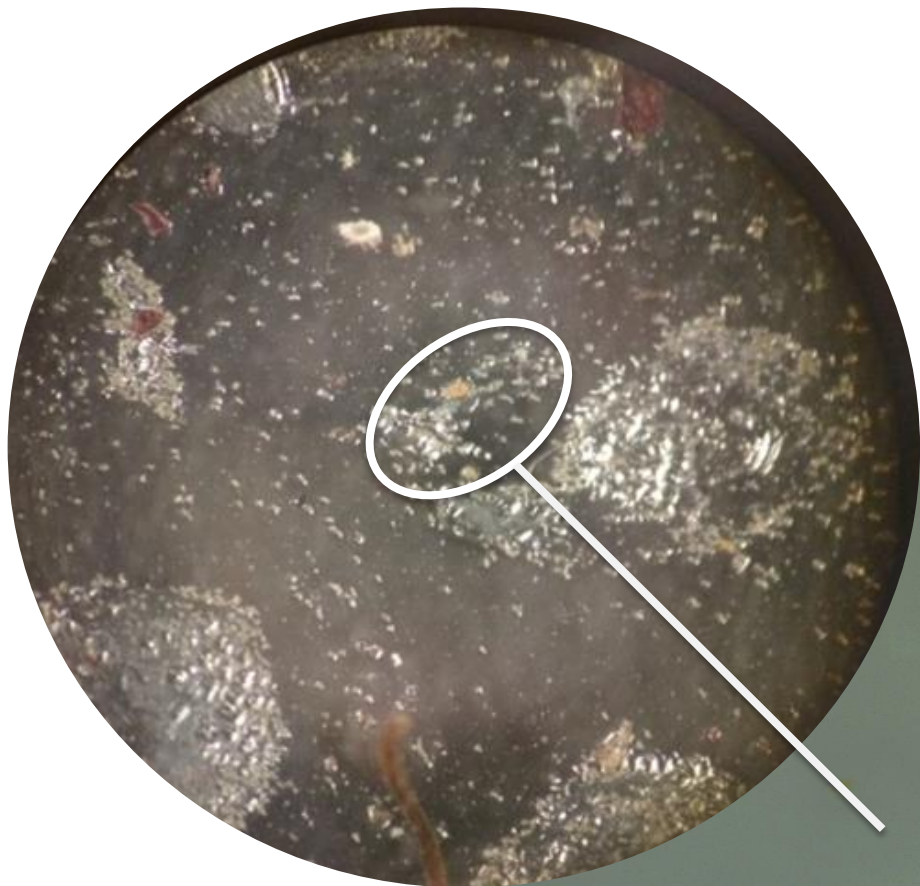
Wild blackberry, Nov 2015











Adults: March – May

Oviposition: April – June

Larva: April-June

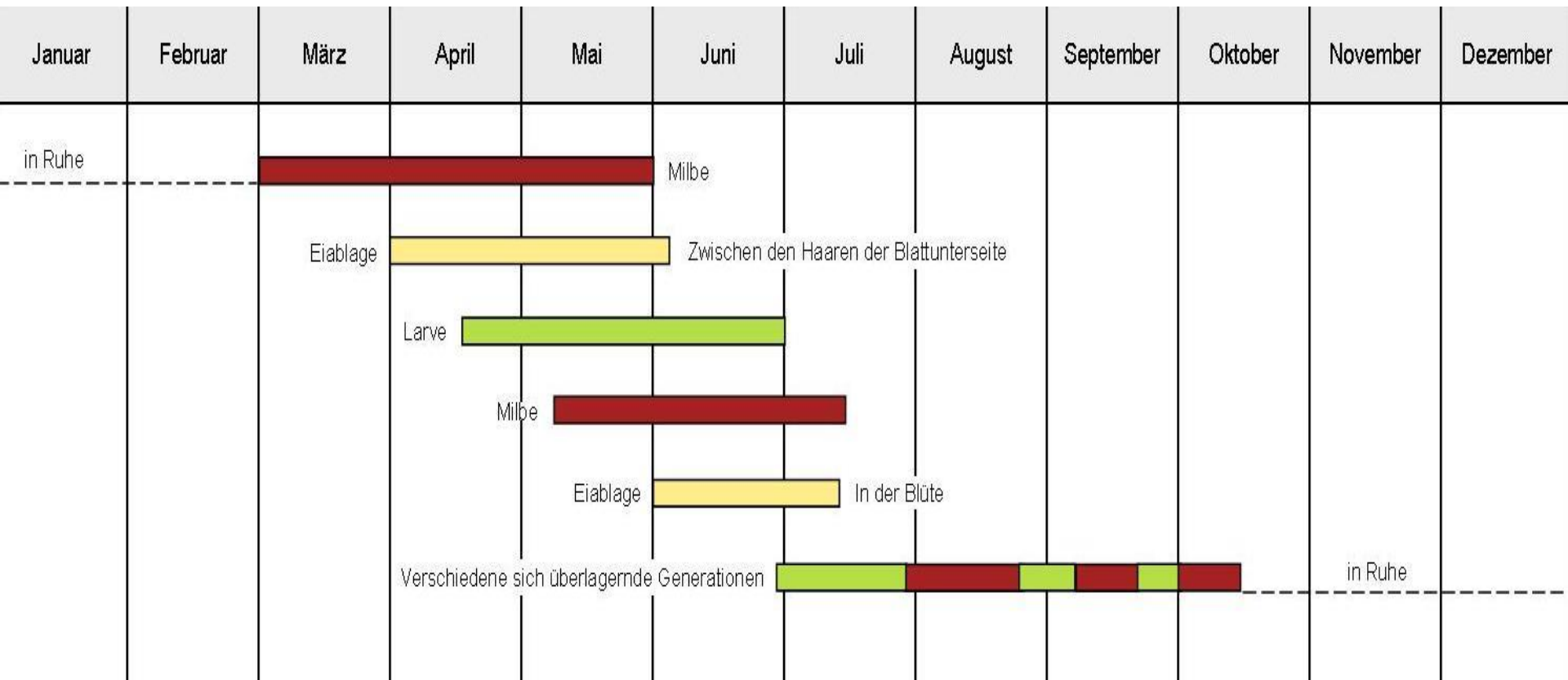
Adults: May – July

Oviposition: June – July, in bloom

Overlapping generations: July – October

Dormant: November – February (van Frankenhuyzen and Stinter, 2002)

# RBM Life cycle



# Other Pests and Predators

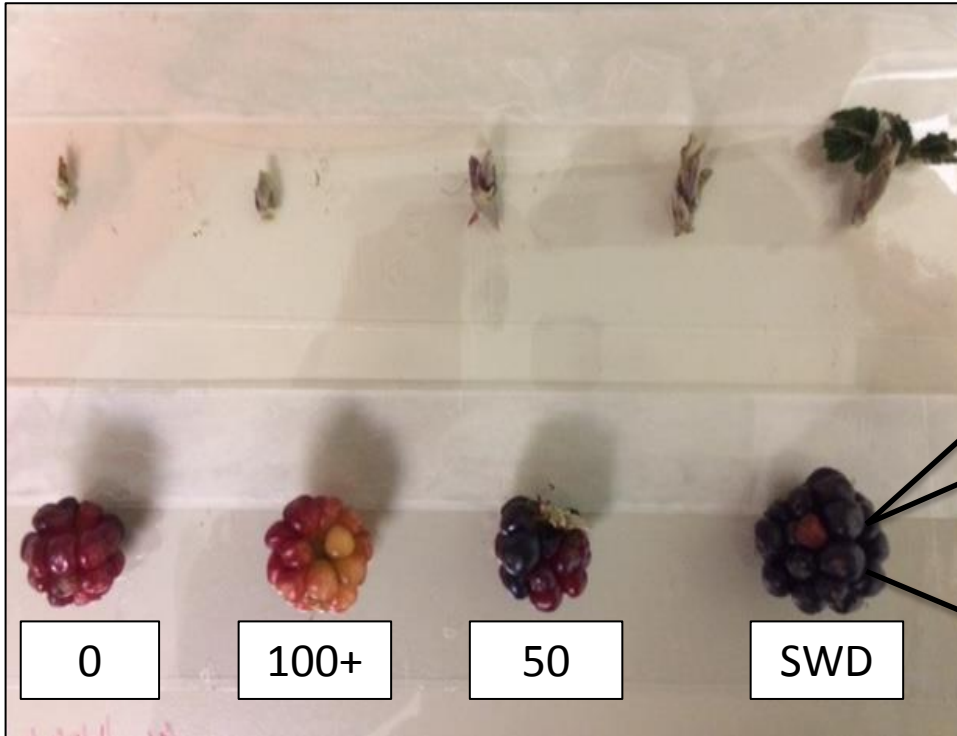
## Prime Ark<sup>®</sup> 45

- Mites, tydeids
- Thrips
- Aphids
- SWD
- Minute pirate bugs

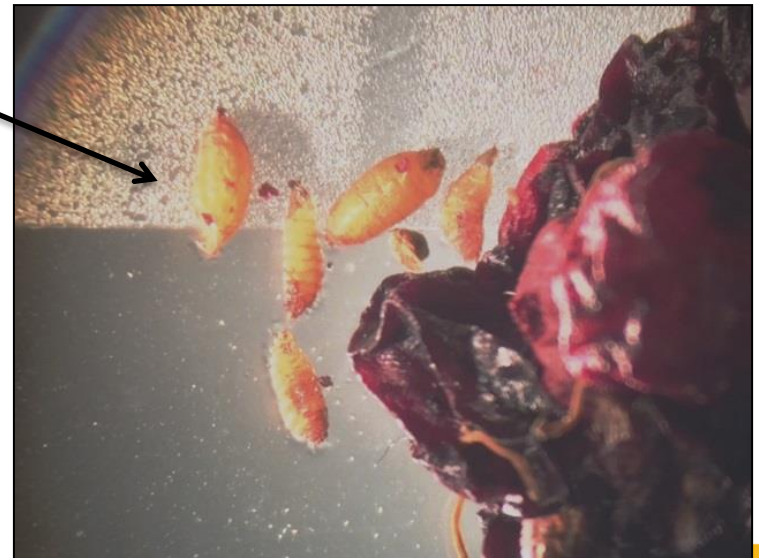
## Wild blackberry

- Mites, tydeids
- Thrips
- Aphids, scale, mealybug
- SWD
- Minute pirate bugs
- Predatory mites

# Other Pests



Wild blackberry, Nov 2015



# Predatory Mites on Blackberry

## *Cultivated*

- *Metaseiulus arboreus* (McMurtry and Show, 2012) – collected from dormant buds
- ***Neoseiulus californicus*, *G. annectans*, *G. occidentalis*** (Murrietta, unpublished) – collected from leaves

## *Wild*

- 12 different species – *M. arboreus* most numerous (McMurtry and Show, 2012)



# Next Steps

- Continue with samples from unpruned Prime Ark<sup>®</sup> 45
- Continue sampling wild blackberry – look for movement towards green fruit
- Improve photos

**Thank you!**