

Insecticide subgroup

Summary NorBaRAG 2019

Insecticide subgroup

- ▶ Biggest turn out so far
- ▶ Representatives from all countries
- ▶ New sub-group chair
 - ▶ Dorte is leaving on maternity leave
 - ▶ Dorte receive help next year

Danish field trials 2000-2018

- ▶ **Michael Kristensen, Aarhus University, Denmark**
- ▶ Data from almost 20 years (landsforsøg)
- ▶ Wide range of crops and insects tested
- ▶ Does spraying insecticides even matter?
- ▶ Problems with MoA leaving the market
- ▶ Possible problems with aphids
- ▶ Does it matter? YES!

Pollen beetle monitoring

- ▶ *Brassicogethes aeneus*
- ▶ Data from all over the NZ
- ▶ More than 70 samples
- ▶ Test against a range of actives
- ▶ Early flight-in of beetles
- ▶ Shift in neonicotinoid resistance
- ▶ Resistance against pyrethroids
- ▶ Susceptibility might be going up (10 year period)
- ▶ Indoxacarb still useful

Cabbage seed weevil monitoring

- ▶ *Ceutorhynchus obstrictus*
- ▶ Data from Sweden (3 trials)
- ▶ Test against pyrethroids and neonicotinoids
- ▶ Susceptible at 100% rate

Strawberry blossom weevil monitoring

- ▶ *Anthonomus rubi*
- ▶ Data from Finland
- ▶ Pyrethroids until 2015
- ▶ IRAC Method 011 (Pollen beetle test)
- ▶ Acceptable effect of λ -cyhalothrin
- ▶ No clear results for Thiacloprid
- ▶ Some differences between conventional and organic farms

Two spotted spider mite monitoring

- ▶ *Tetranychus urticae*
- ▶ Data from Norway
- ▶ Trying a leaf-dip bioassay method
- ▶ Testing 4 actives of acaricides
- ▶ Some resistance observed
- ▶ Problem might arise → more data is needed

Annual report

- ▶ **Workshop in groups**
- ▶ Losing MoAs → 2 MoAs left in OSR
- ▶ How to present data
 - ▶ Before IRAC method classification
 - ▶ Now: Mortality at 100% dose rate
- ▶ Swedish trials: Differences in susceptibility testing
 - ▶ Vials prepared in same way
- ▶ How to take full advantage of the NorBaRAG insecticide group
- ▶ Develop/expand the group