



Jordbruks
verket

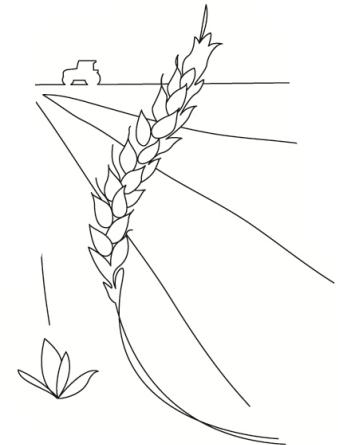
2019-05-02

Resistance monitoring in Sweden 2018

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Europeiska jordbruksfonden för
landsbygdsutveckling: Europa
investerar i landsbygdsområden



Sampling & monitoring

- In total 24 sampling sites for pollen beetle, from various locations in Sweden
- A quarter of the samples are from spring oilseed rape (SOSR)
- Only three sampling sites for cabbage seed weevil
- It's a shared project between the Swedish University of Agricultural Sciences, the Swedish Board of Agriculture and a couple of companies





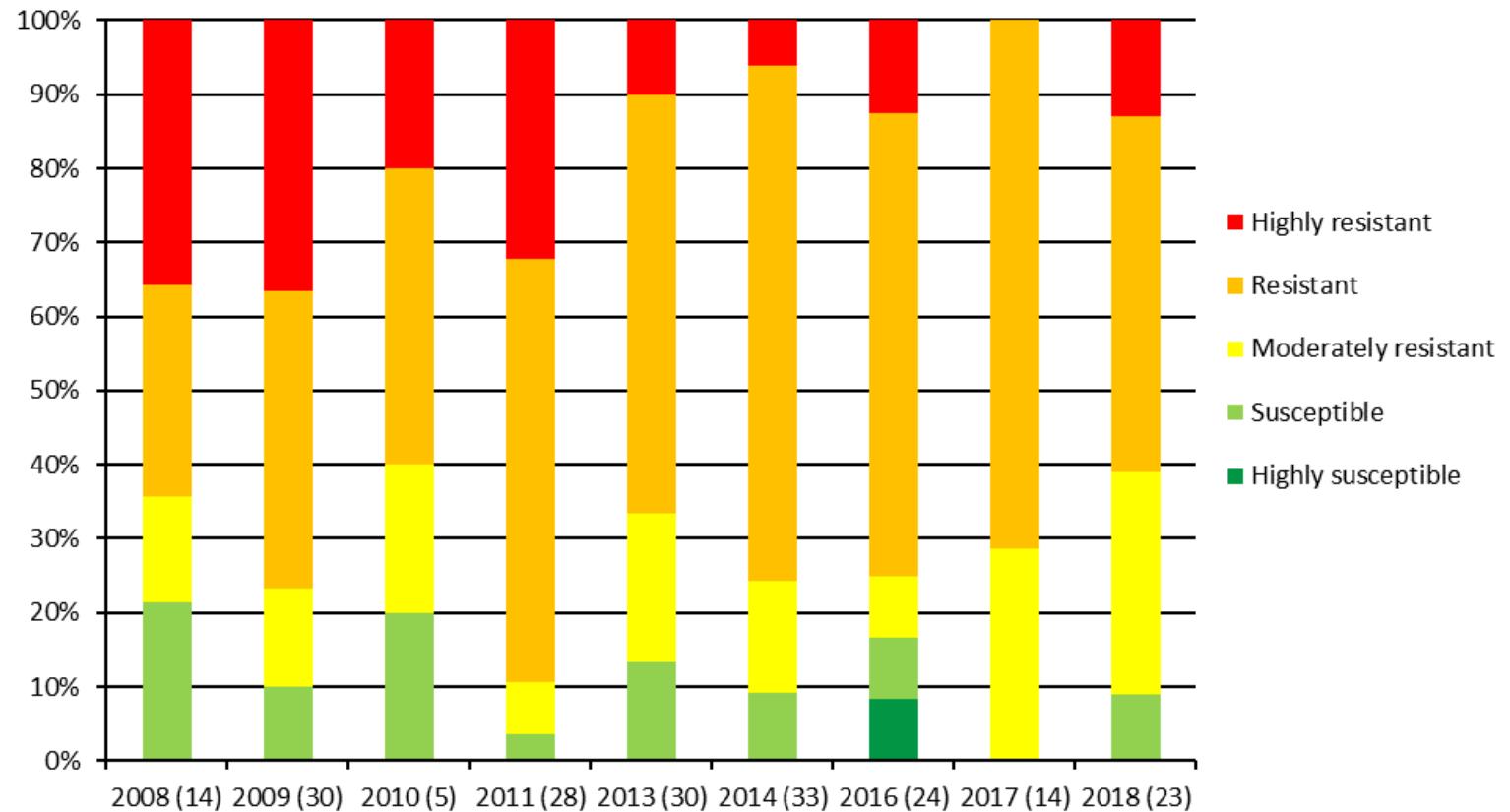
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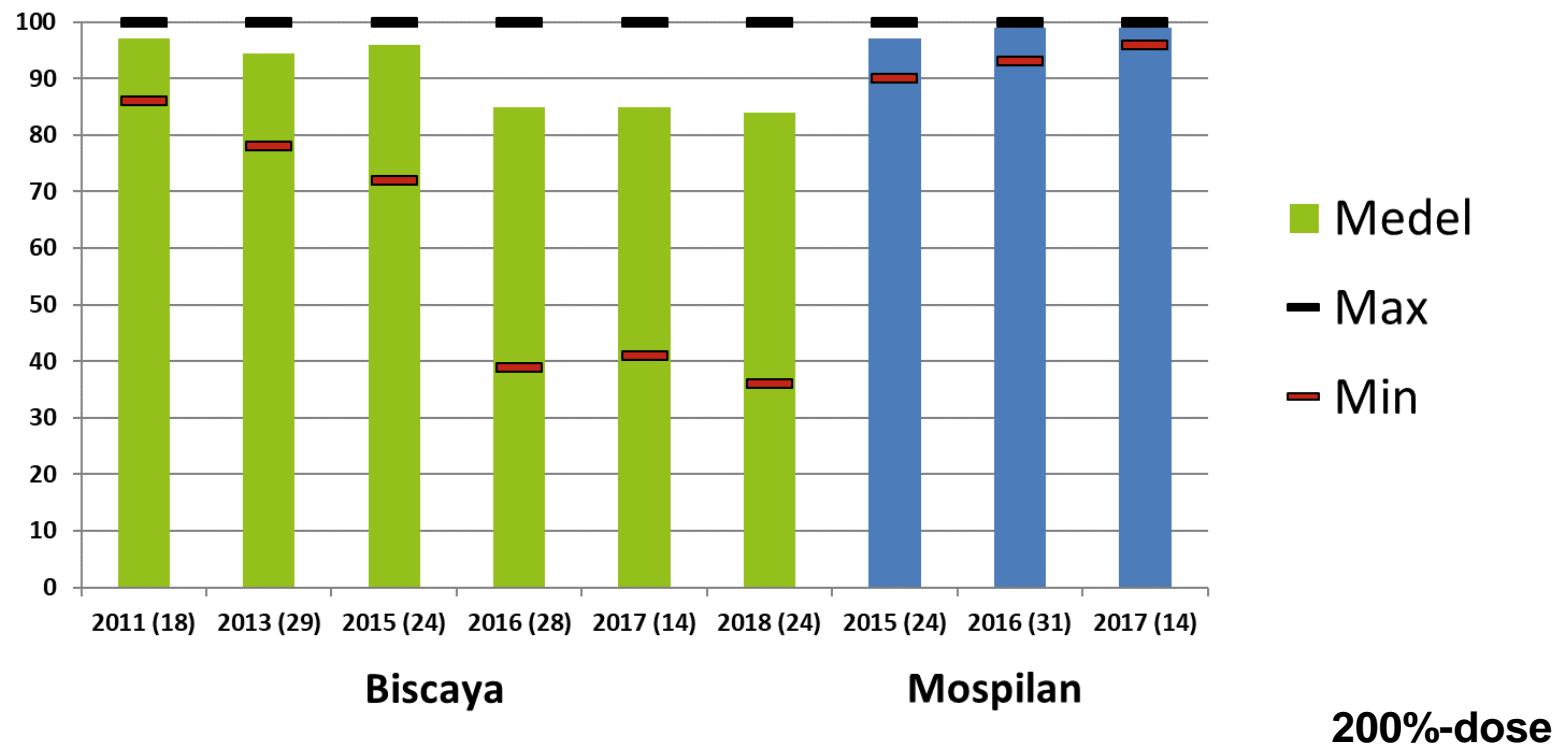
Pollen beetle damages 2018



Change in susceptibility to lambda-cyhalothrin – pollen beetles

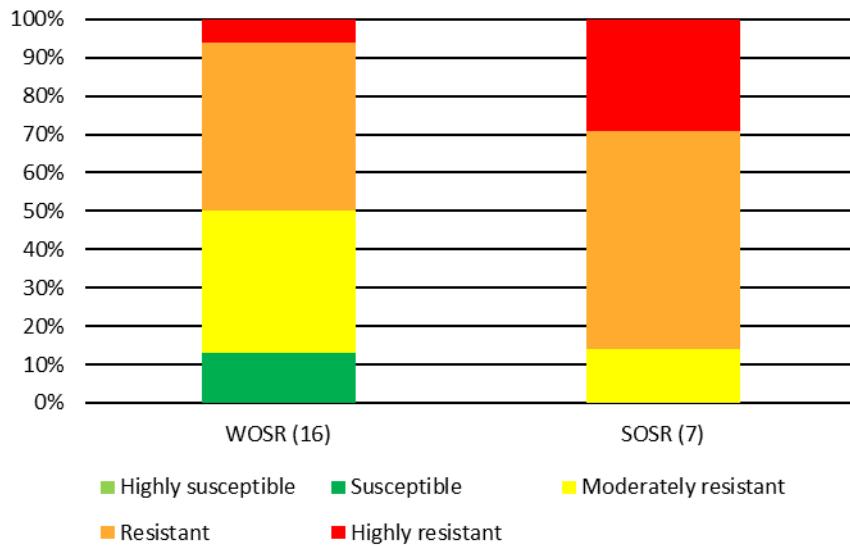


Change in susceptibility to neonicotinoids – pollen beetles

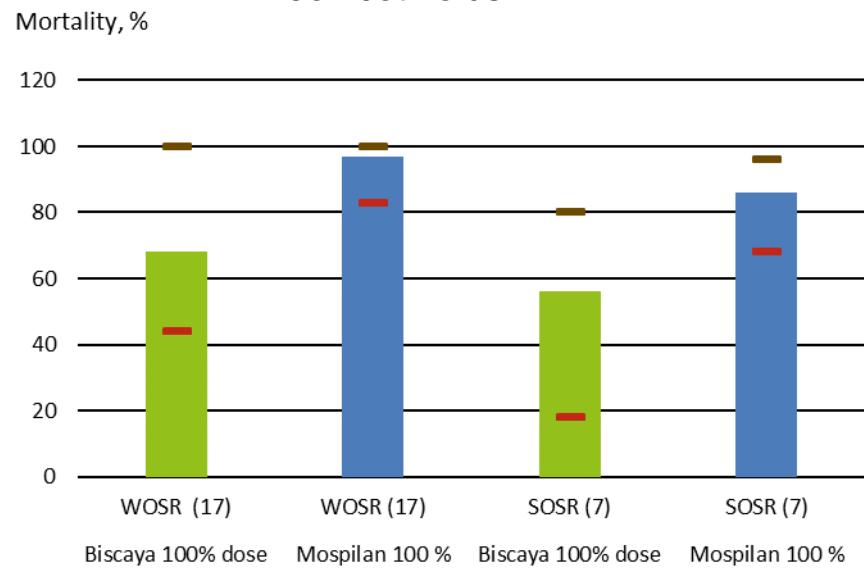


The seasonal change in susceptibility

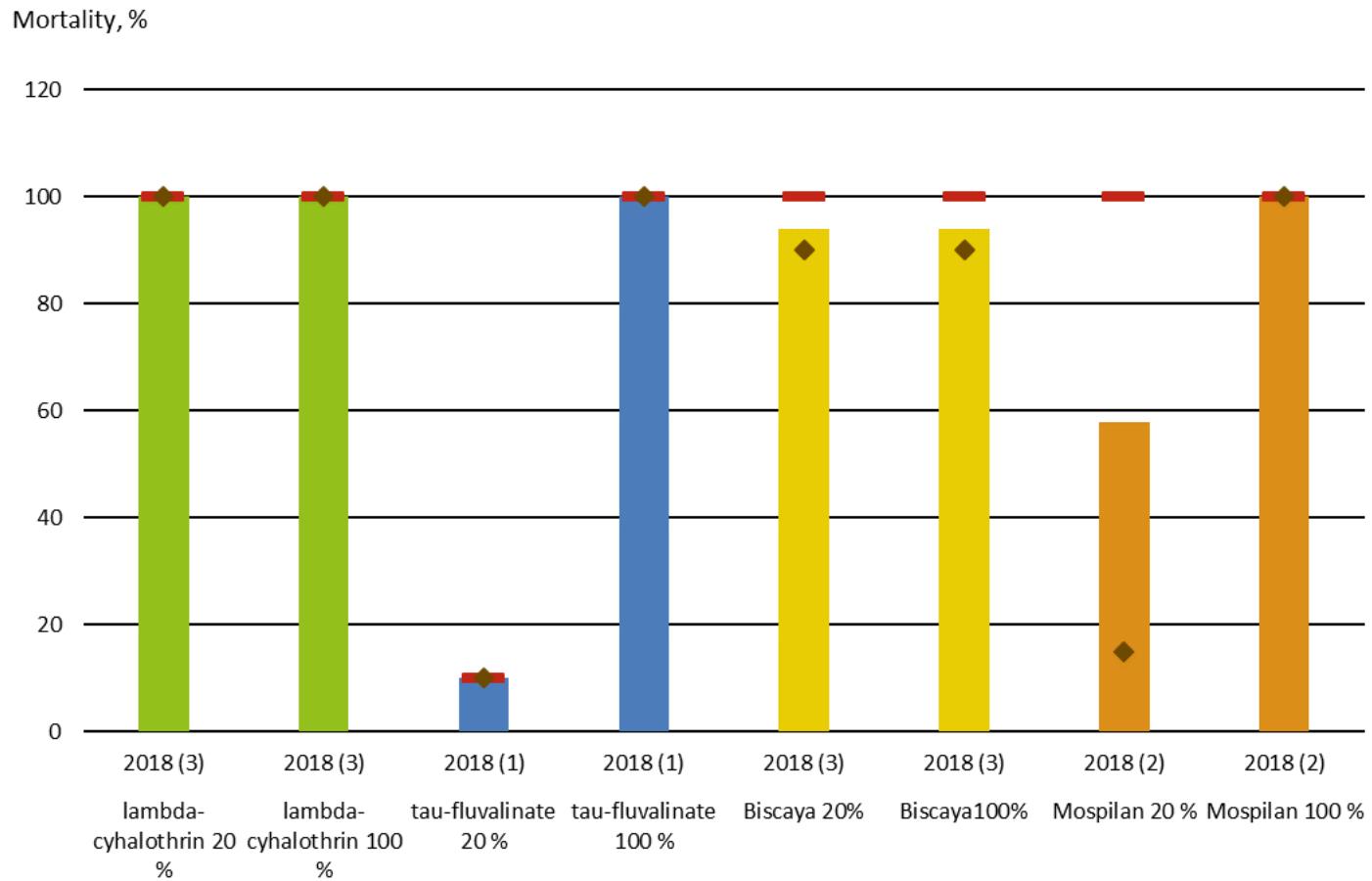
lambda-cyhalothrin



neonicotinoids



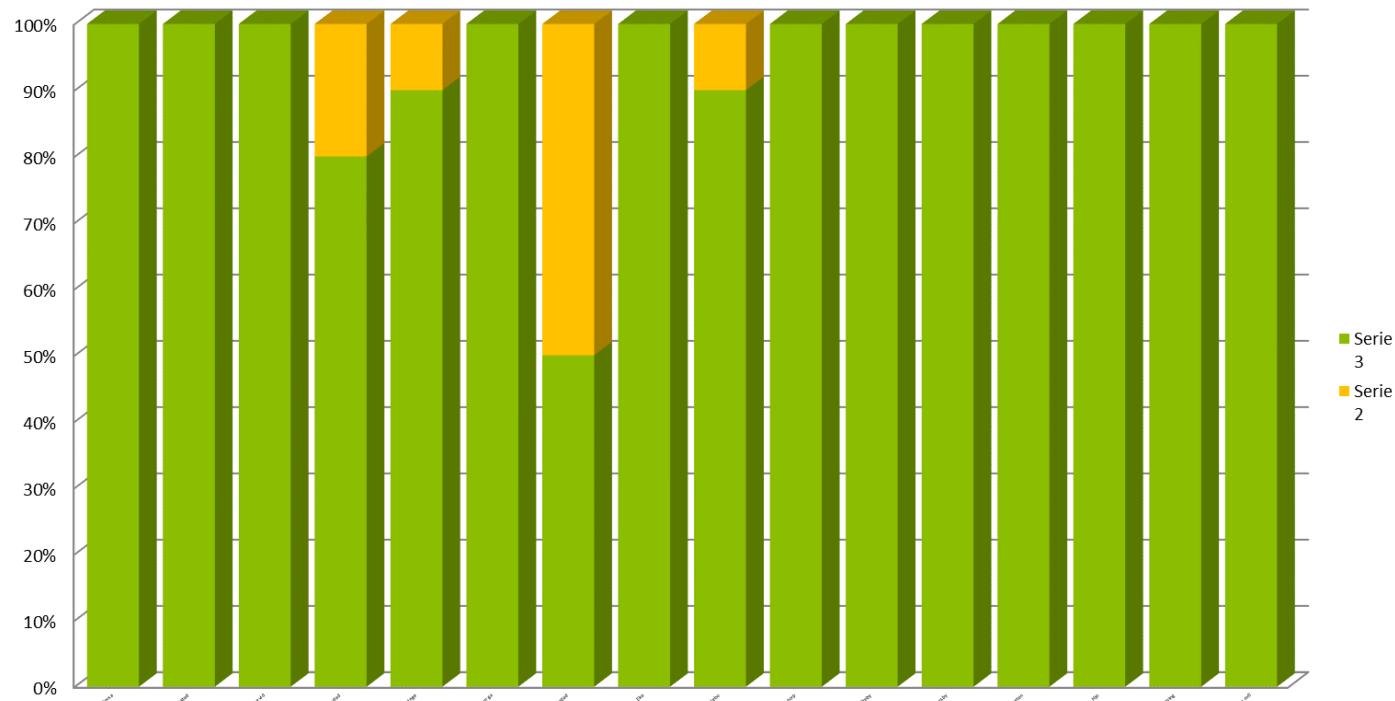
Cabbage seed weevil susceptibility





Target site resistance in cabbage stem flea beetle

KDR L1014F (CTT/TTT) mutation *Psylliodes chrysocephala*



Source: R. Nauen (Bayer AG)



Thank you