Functional agrobiodiversity for pest control in apple

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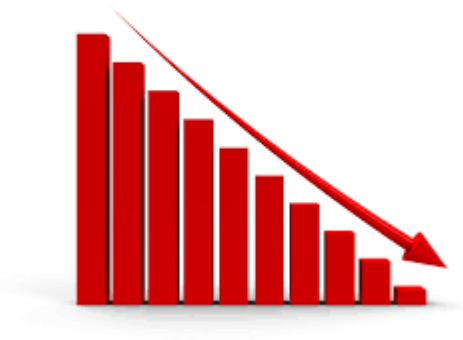


20% of organic apples
sold as class A fruit

Functional agrobiodiversity

by

Ecological infrastructures

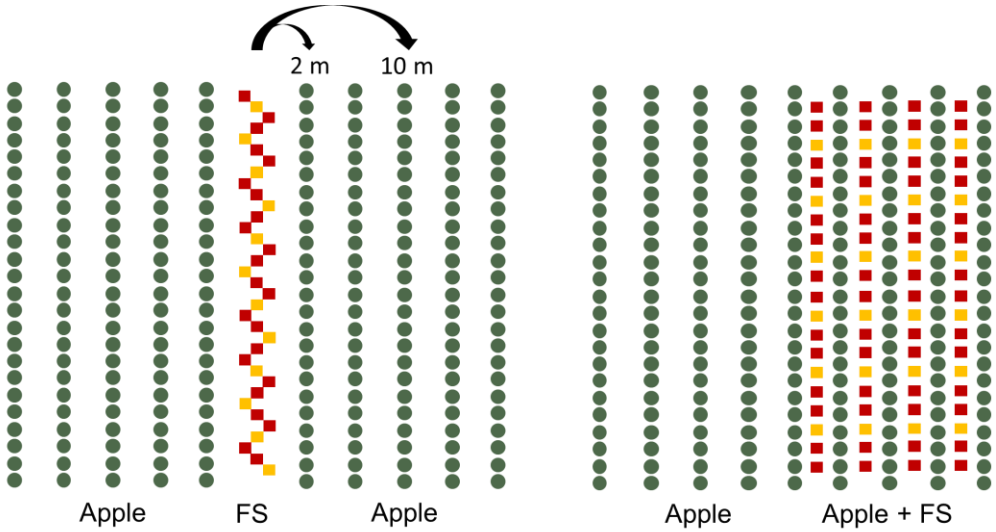
increasing plant biodiversity

Increasing biodiversity

- increase natural enemy abundance and diversity
- reduce pest damage
  - The rosy apple aphid, *Dysaphis plantaginea*

Perennial flower strips in organic apple orchards, 35-40 species

Field trials 2016 and 2017



Assessment of
Pest infestation
Crop damage
Predator abundance and diversity
Predation activity level
Predator fitness

By
Visual observations
Damage assessments
Beating samples
Predation activity
by using sentinel prey

The value of flowers to insects PhD student Xueqing He

- Meta analysis of flowering plant species on predator fitness
- Potential of selected flowering plants to improve predator fitness
  Adalia bipunctata: longevity, fecundity, predation activity

Thanks

PROTECFRUIT EcoOrchard CORE organic Miljø- og Fødevareministeriet gudp