Frøafgiftsfonden

Ministeriet for Fødevarer, Landbrug og Fiskeri

gudp

SKADEDYR I KORSBLOMSTREDE FRØAFGRØDER

AARHUS UNIVERSITET
INSTITUT FOR AGROØKOLOGI

6. FEBRUAR 2024

HENRIK BAK TOPBJERG
AKADEMISK MEDARBEJDER

FORMÅL

Afprøvning af insekticider

- Laboratoriet (glimmerbøsser, skulpesnudebiller)
- Plotforsøg (glimmerbøsser, skulpesnudebiller)

Sammenligninger af moniteringsværktøjer

- AU Flakkebjerg og avlere Sjælland og Fyn
- Registrering af kålmøl, glimmerbøsser, skulpesnudebiller

FORSØGSOVERSIGT

AU-Flakkebjerg

- Laboratorieforsøg
  - Insekticider skulpesnudebiller, glimmerbøsser
  - Æg parasitoid *Trichogramma brassica* æg af kålmøl – godtog ikke kålmøl æg
- Radise afgrøde
  - Monitering af indflyvning glimmerbøsser, skulpesnudebiller, kålmøl
  - Afprøvning af insekticider
  - Afprøvning af fangafgrøde kinesisk kål
  - Afprøvning af føderessource *Chrysantremum segetum*

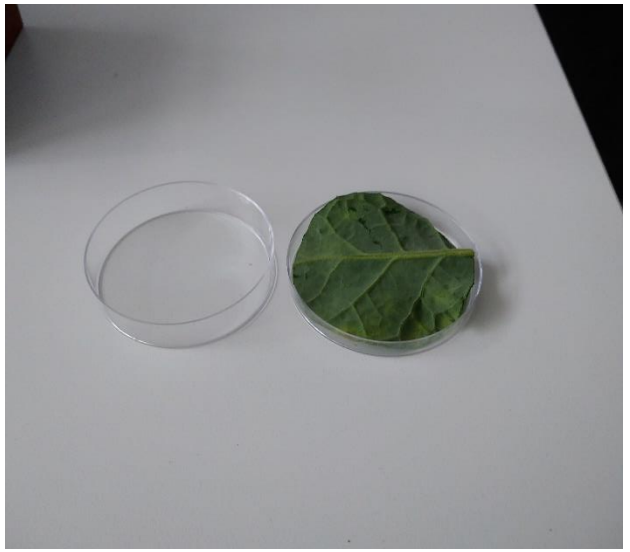
Kommercielle avlere

- 3 Fyn, 3 Sjælland
- Monitering af indflyvning glimmerbøsser, skulpesnudebiller, kålmøl
- Afprøvning af æg-parasitoid *T. brassica* på kålmøl – ingen forskel

INSEKTICID LABORATORIE TEST

Bladdyp metode

- 11 midler
- 4 replikater med 5 eller 10 insekter i hver
- Anvendt skulpesnudebiller og lidt glimmerbøsser – fandt få bladribbesnudebiller (forskellig fra 2023)
- Udført i små petriskåle
- Dosis tilladt i 200l/ha

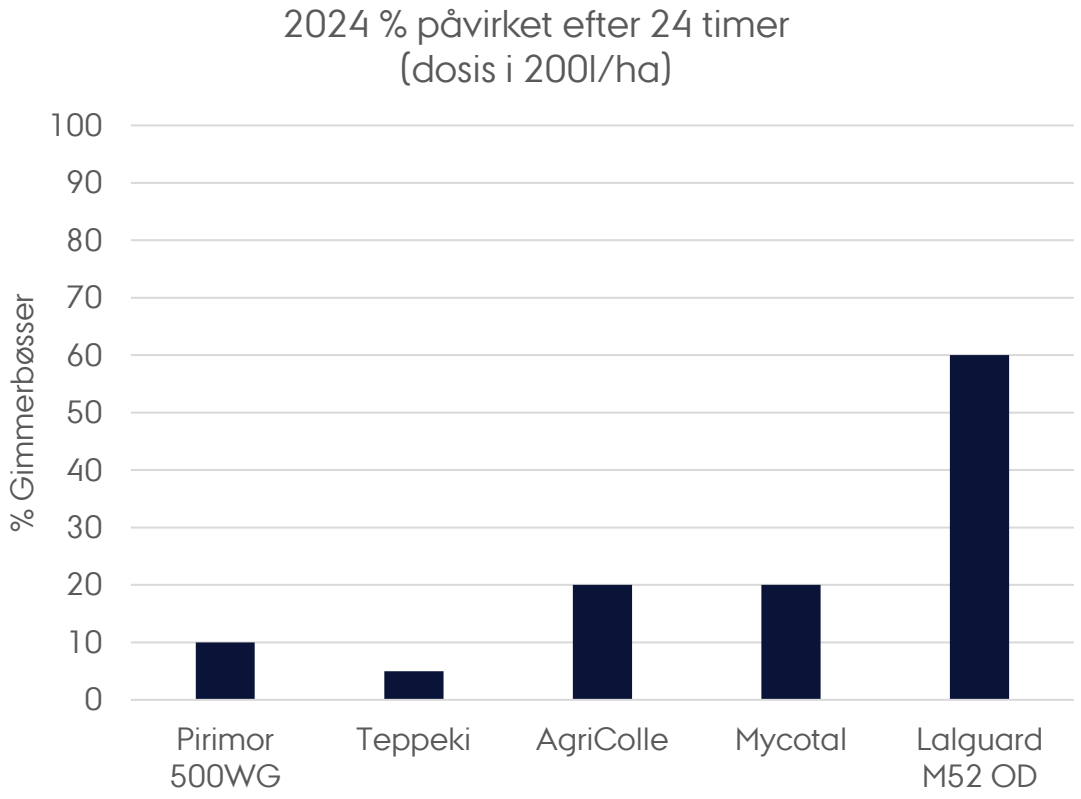


- Opgjort efter 24
- Opgjort: levende, påvirket, døde

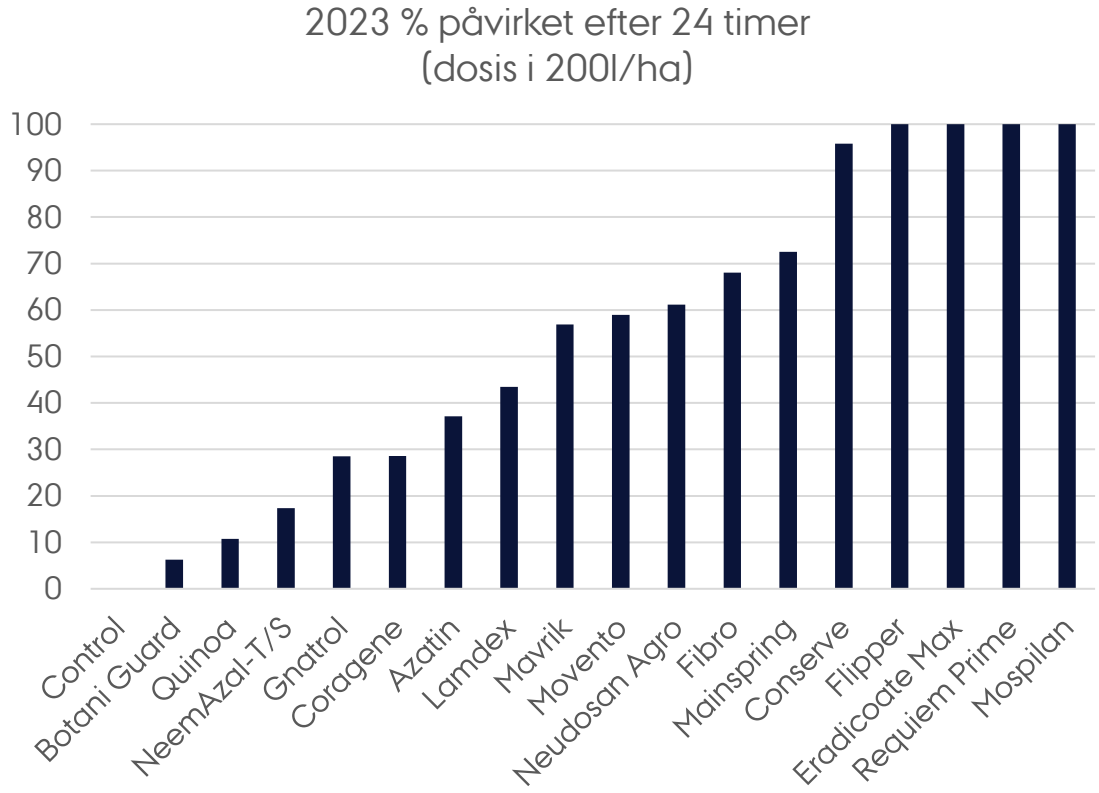
Direkte kontakt

- 8 midler
- Sprøjtet direkte på insekt

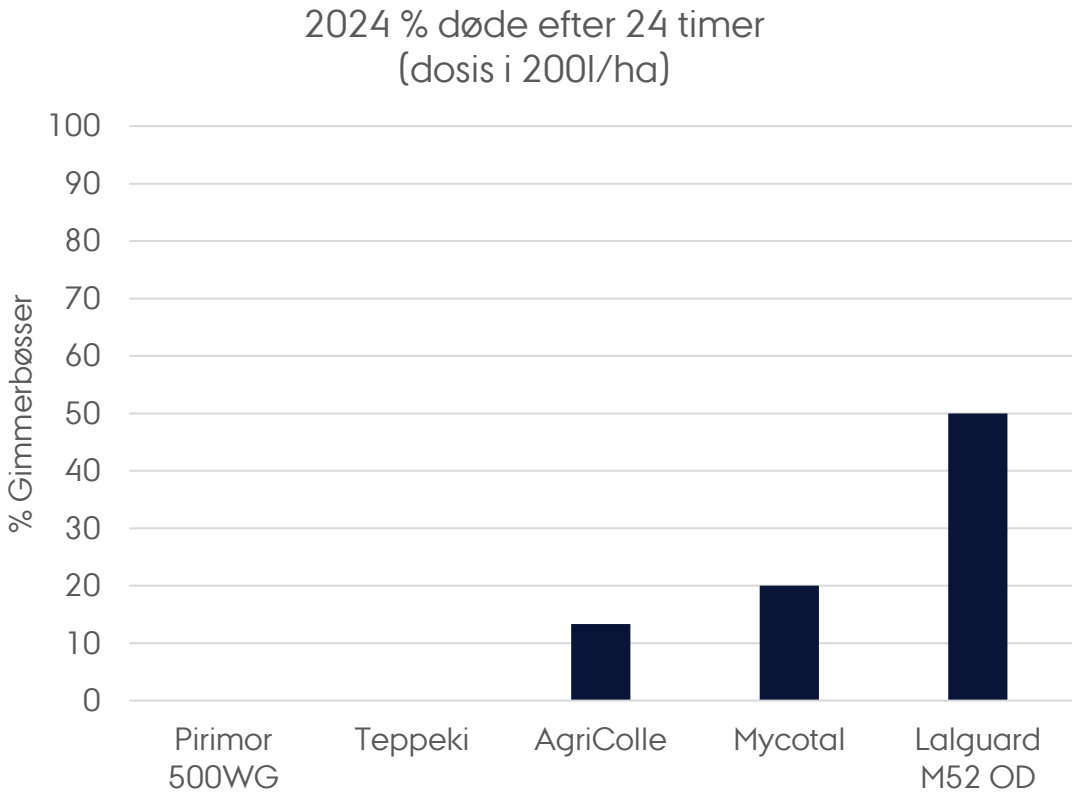
INSEKTICID LABORATORIE TEST - GLIMMERBØSSER

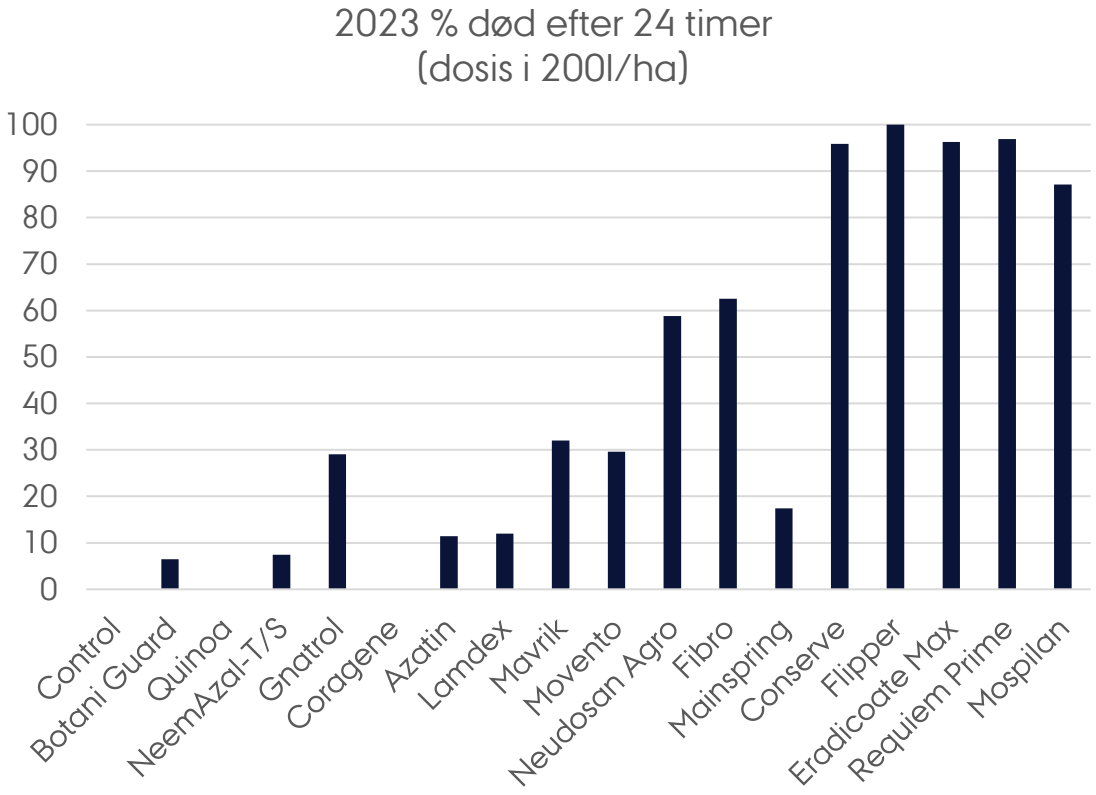


2024 – få glimmerbøsser indfanget

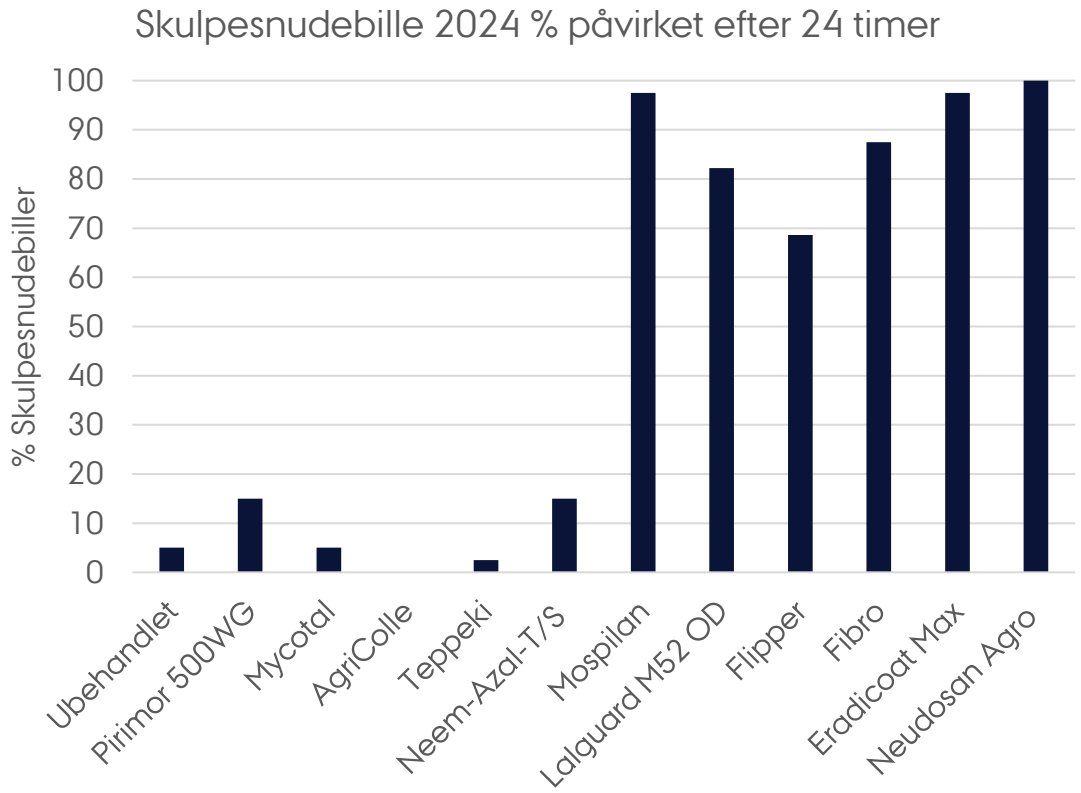


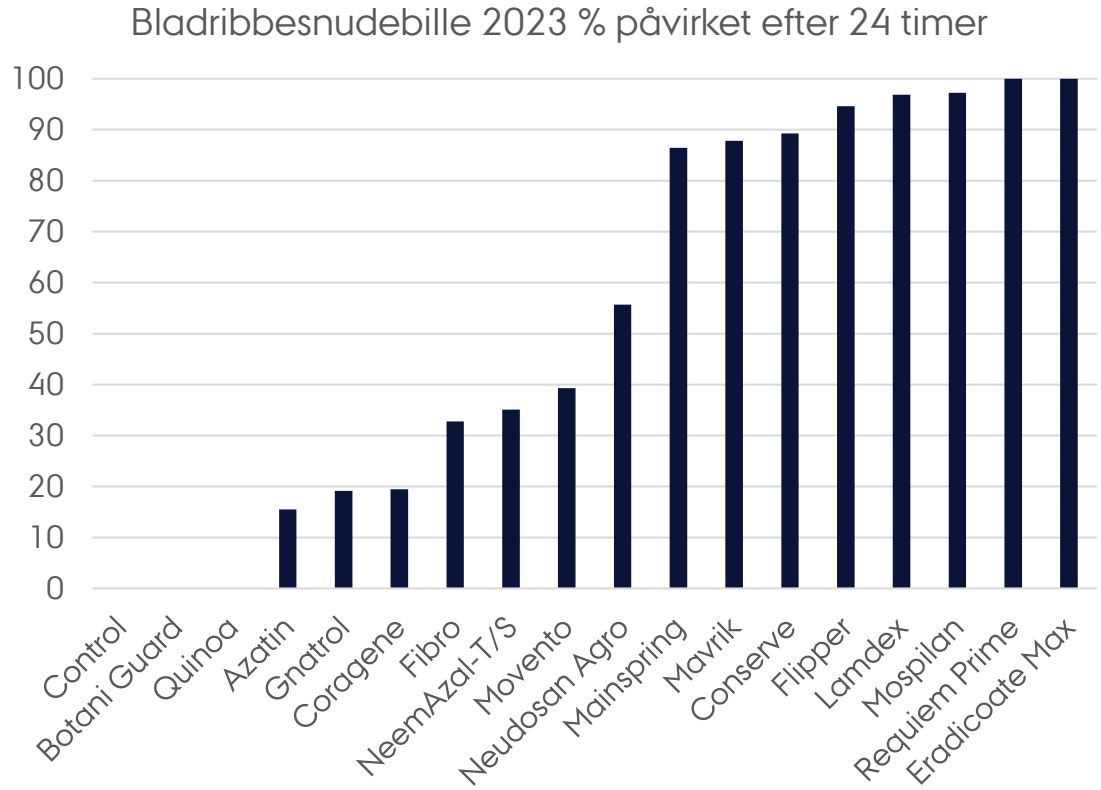
INSEKTICID LABORATORIE TEST - GLIMMERBØSSER



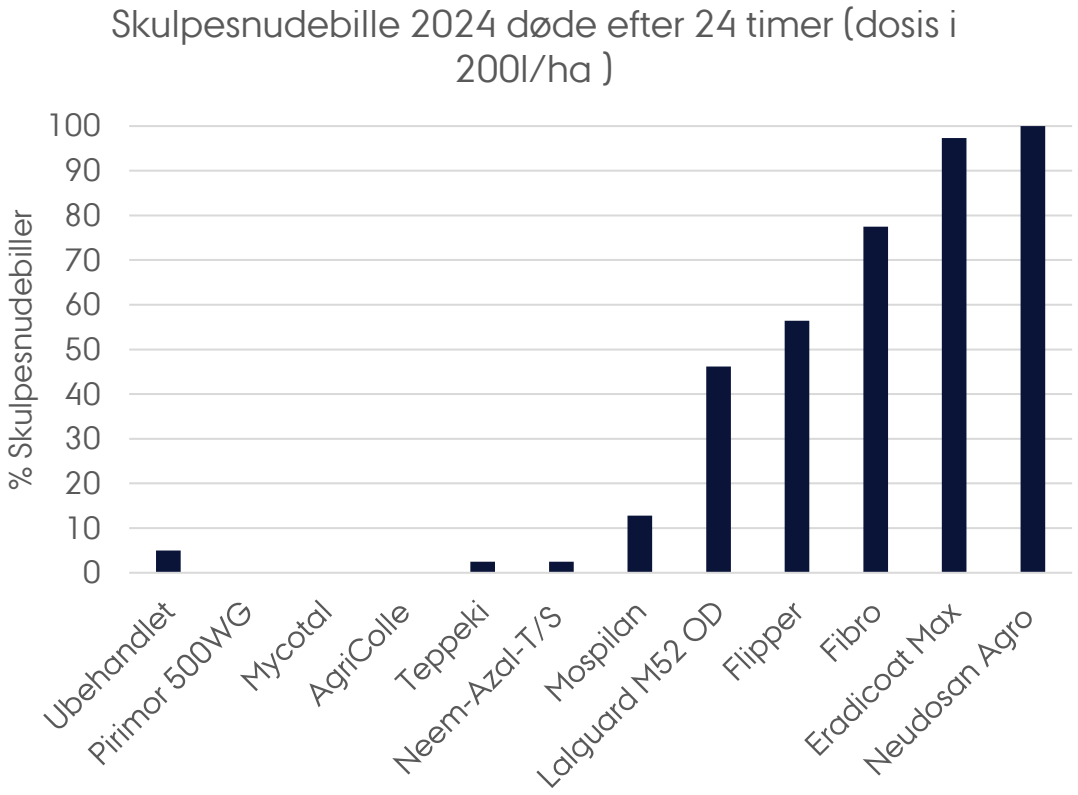


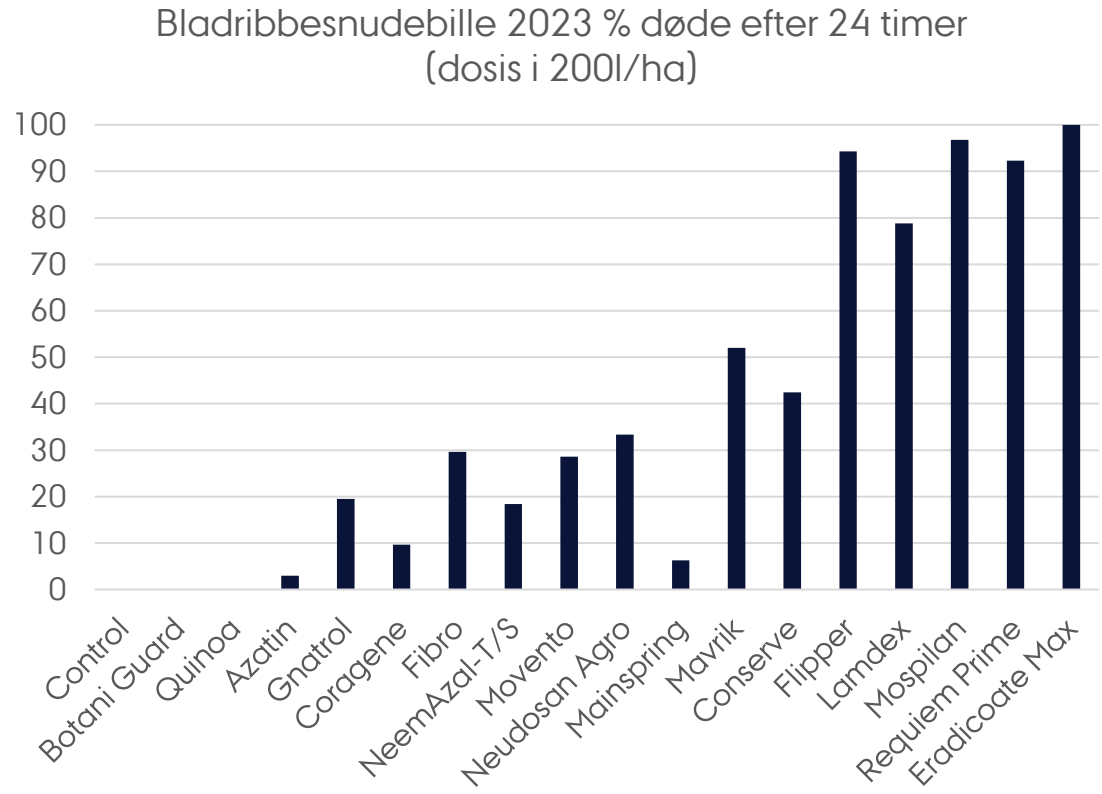
INSEKTICID LABORATORIE TEST 2024- SNUDEBILLER





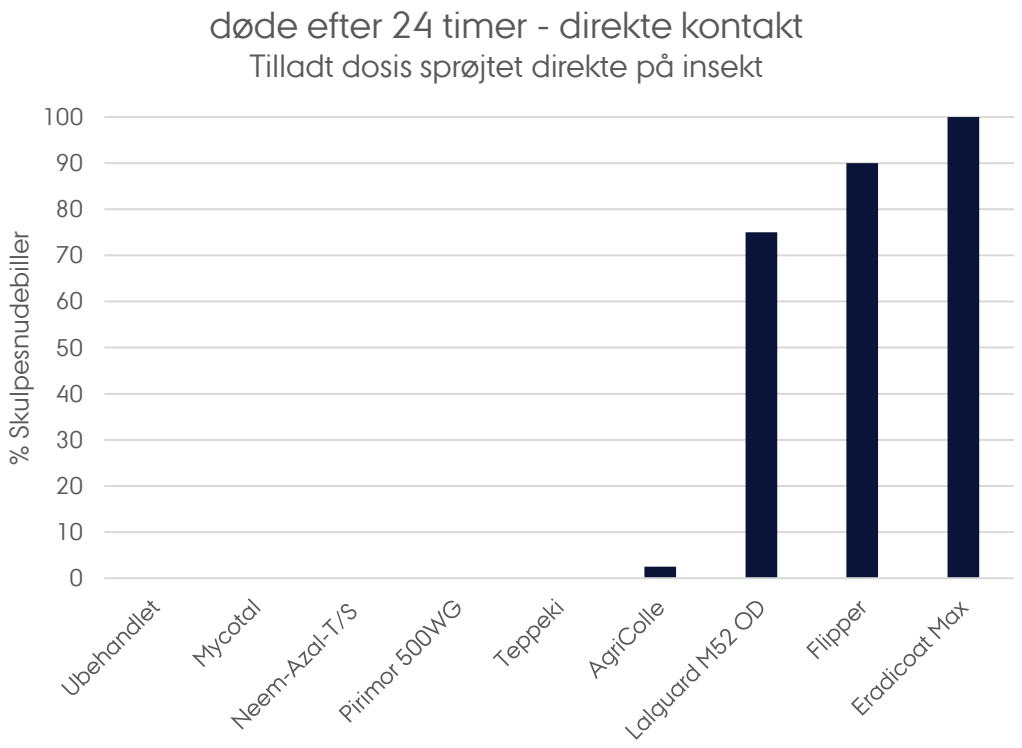
INSEKTICID LABORATORIE TEST 2024 - SNUDEBILLER





INSEKTICID LABORATORIE TEST 2024 - SKULPESNUDEBILLE

Direkte kontakt



INSEKTICIDAFPRØVNING PLOTFORSØG

Radise

Sået uge 20

6 midler

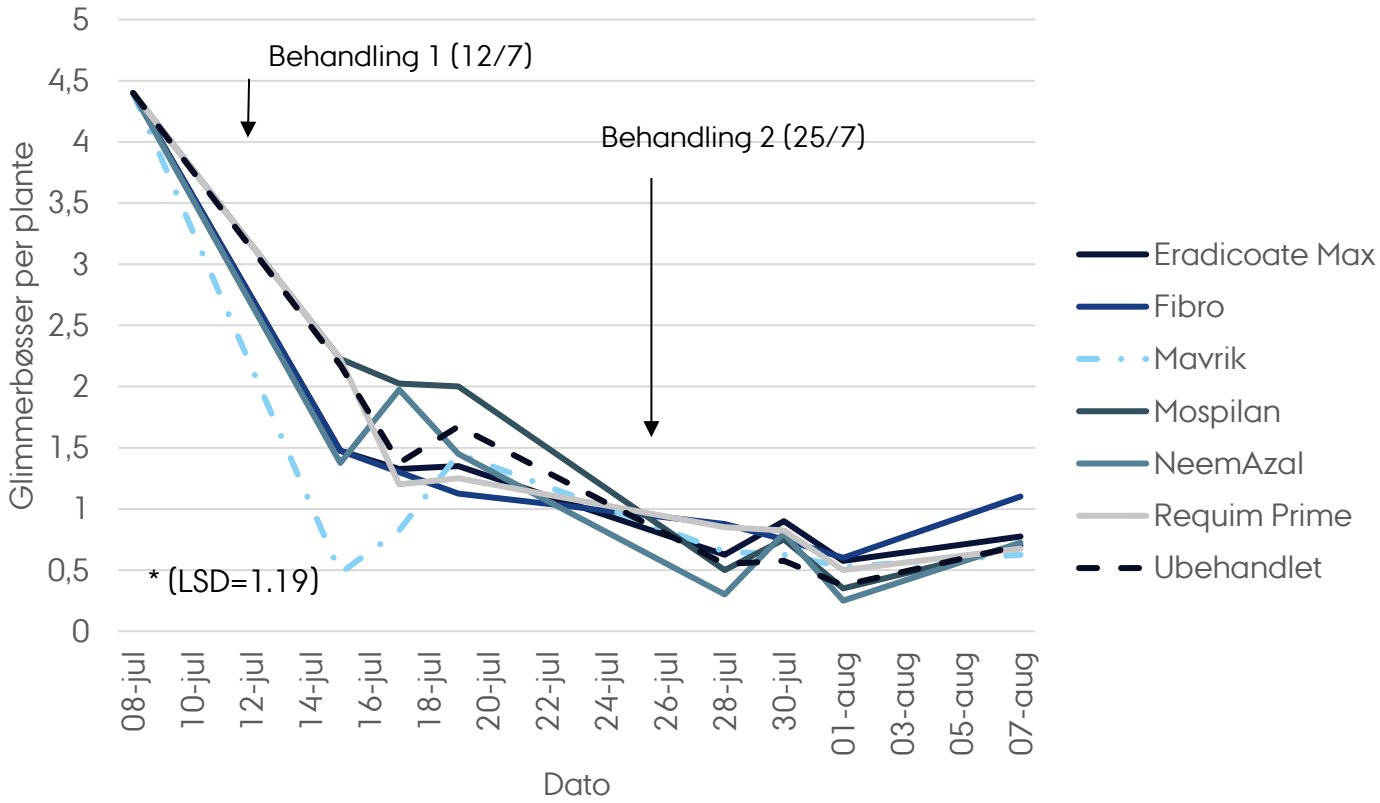
4 replikater

Dosis tilladt i 200l/h

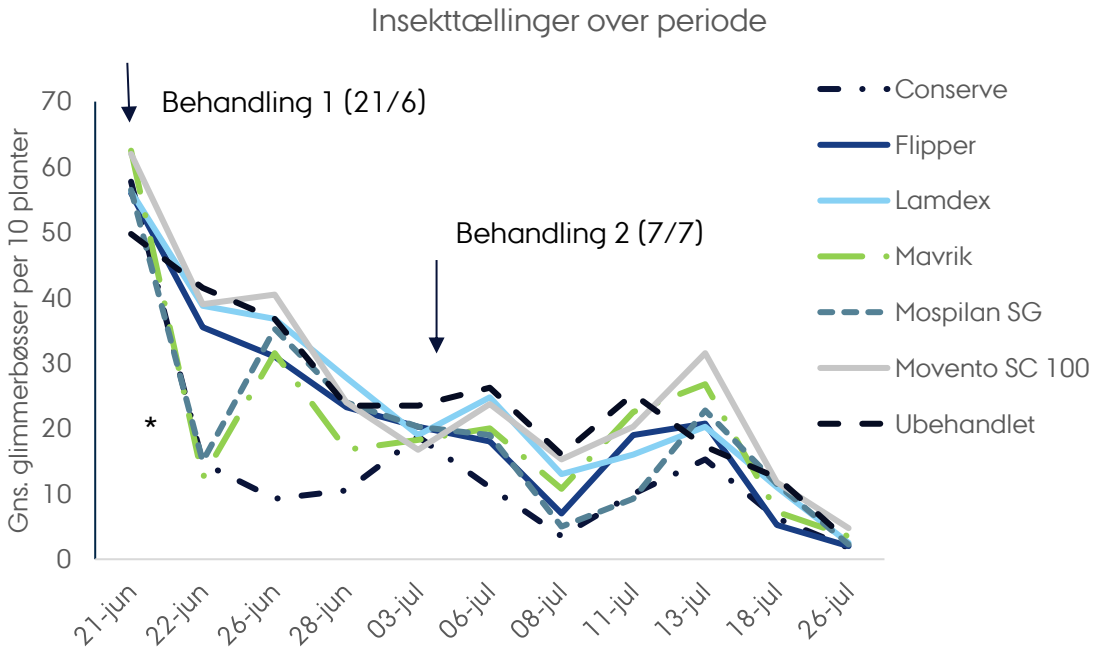
Insekter talt før behandling og 3, 5, 7 og 12 dage efter behandlingerne (1 og 2)

Optalt antal glimmerbøsser, skulpesnudebiller per 10 hovedskud ved at banke insekterne ned i en hvidfotobakke

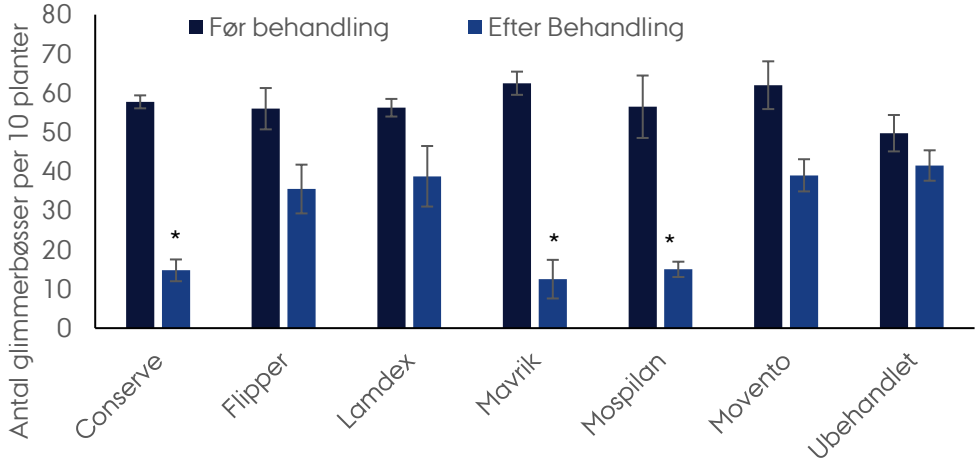
PLOTFORSØG 2024 - GLIMMERBØSSER



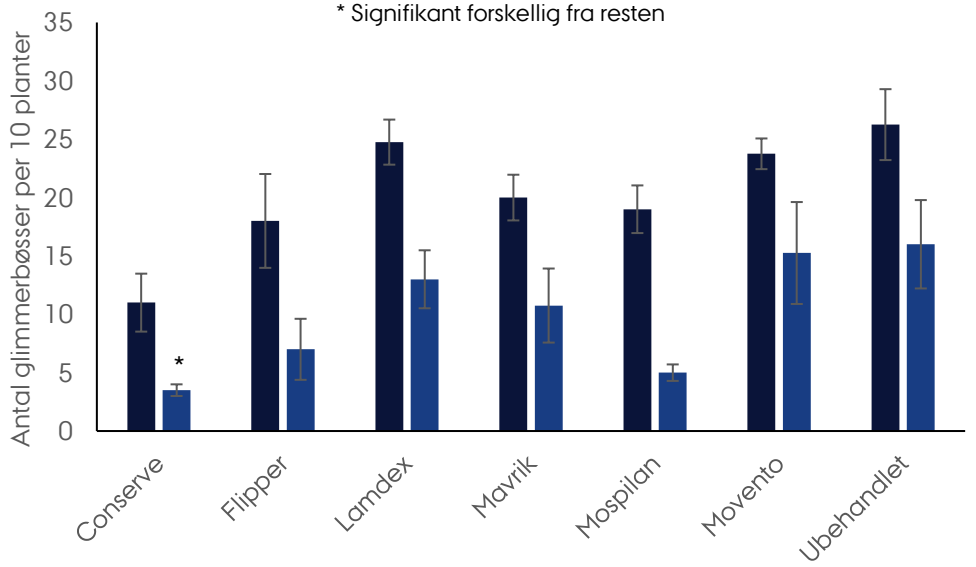
PLOTFORSØG 2023 - GLIMMERBØSSER



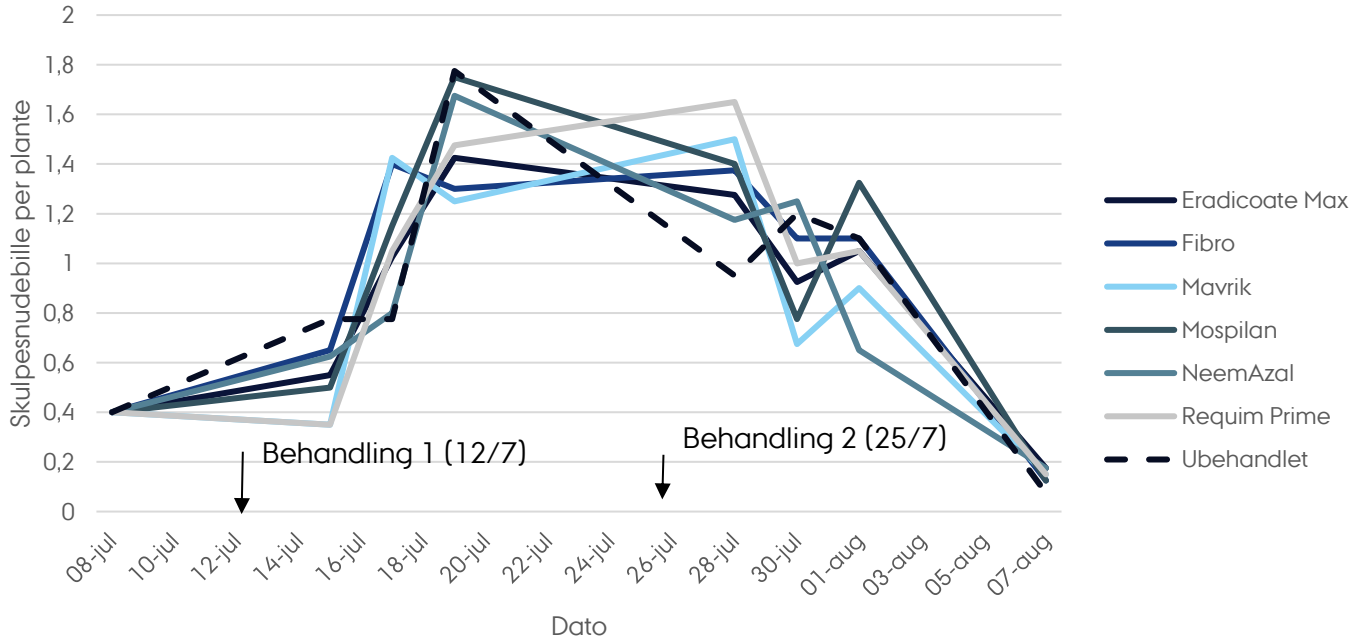
Behandling 1



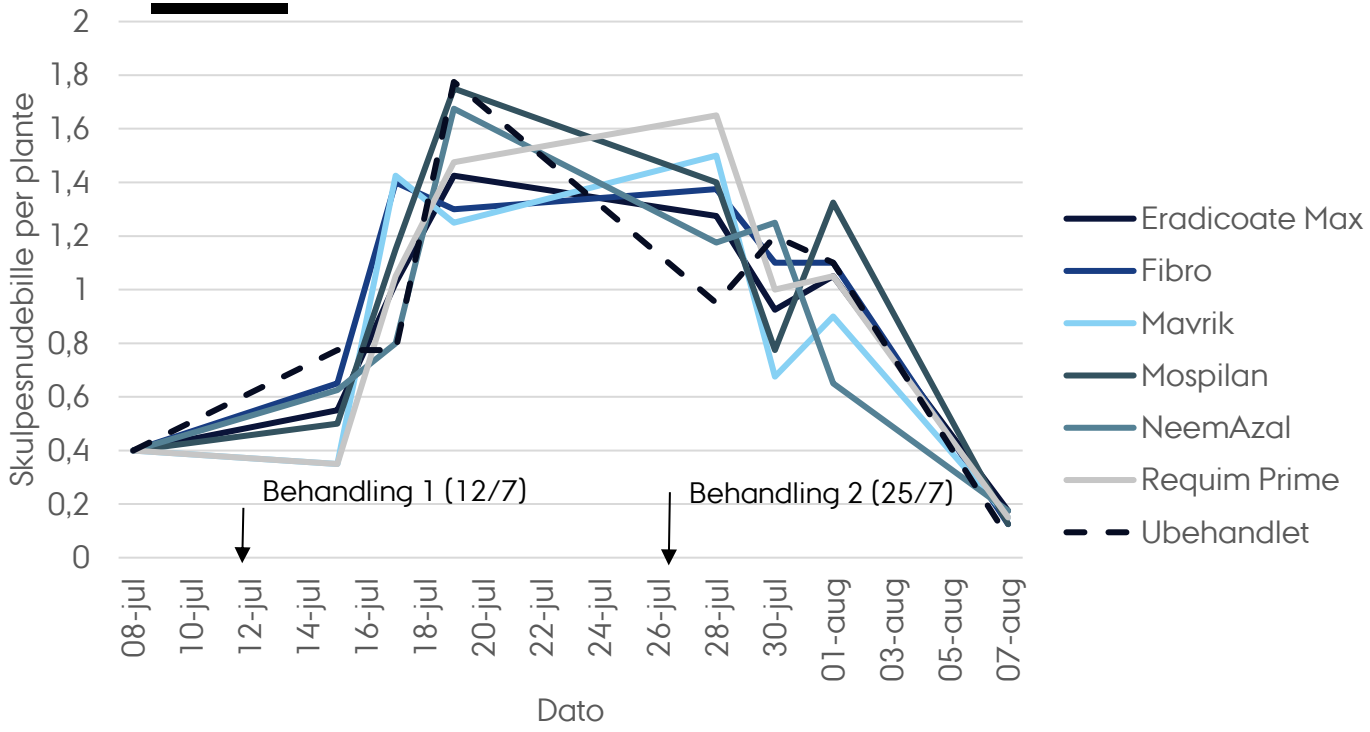
Behandling 2



PLOTFORSØG 2024 - SKULPESNUDEBILLE



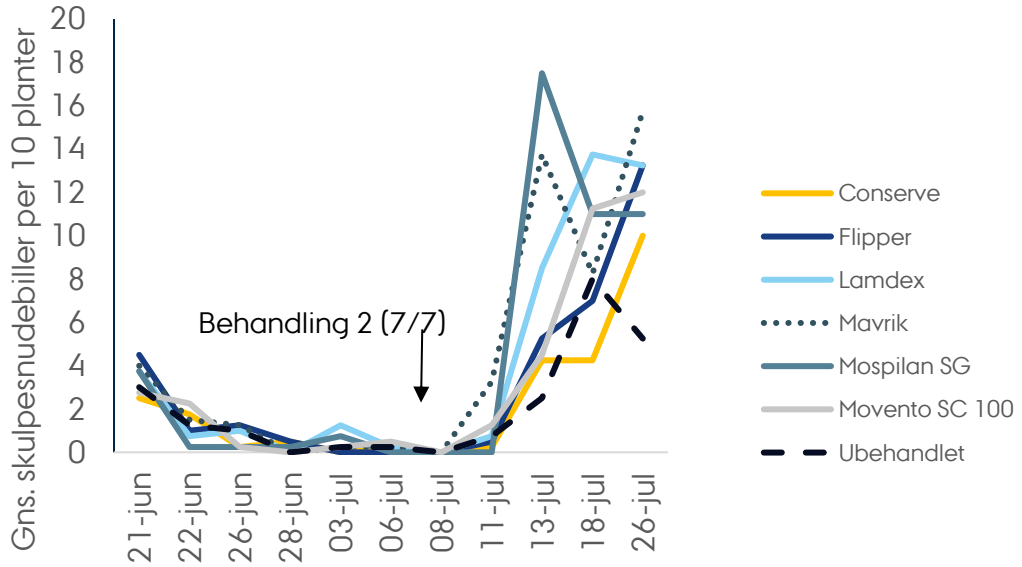
PLOTFORSØG 2024 - SKULPESNUDEBILLE



Skulpesnudebillerne ankommer på samme tidspunkt 2023 og 2024

Plotforsøg 2023 - skulpesnudebille

Insekttællinger over periode



HØST – SKÅRLAGT UGE 3 2025

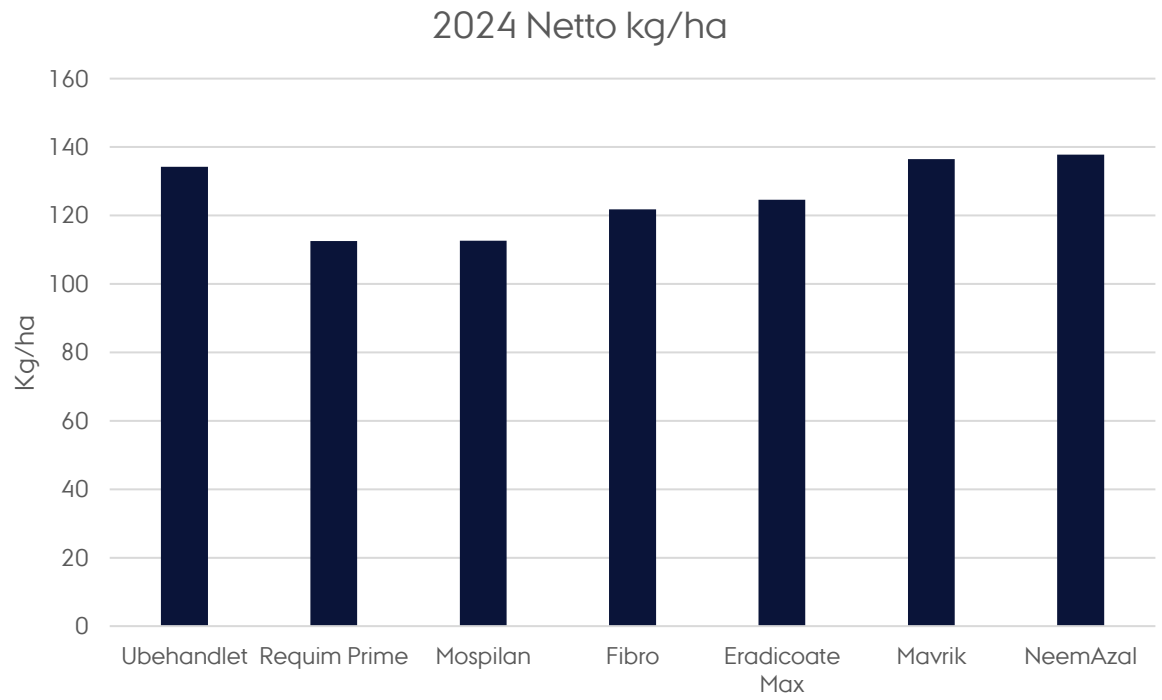
Sået uge 20 2024

Skårlagt uge 38 2024

Tærsket uge 3 2025

Færdig renset uge 5 2025

Behandlinger er ikke forskellig fra ubehandlet

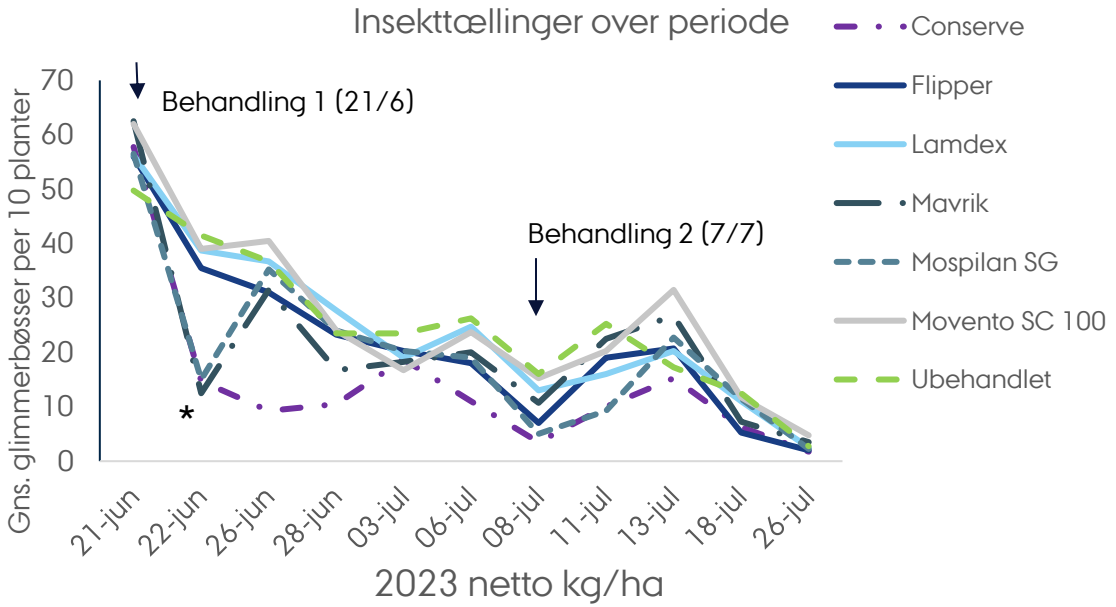


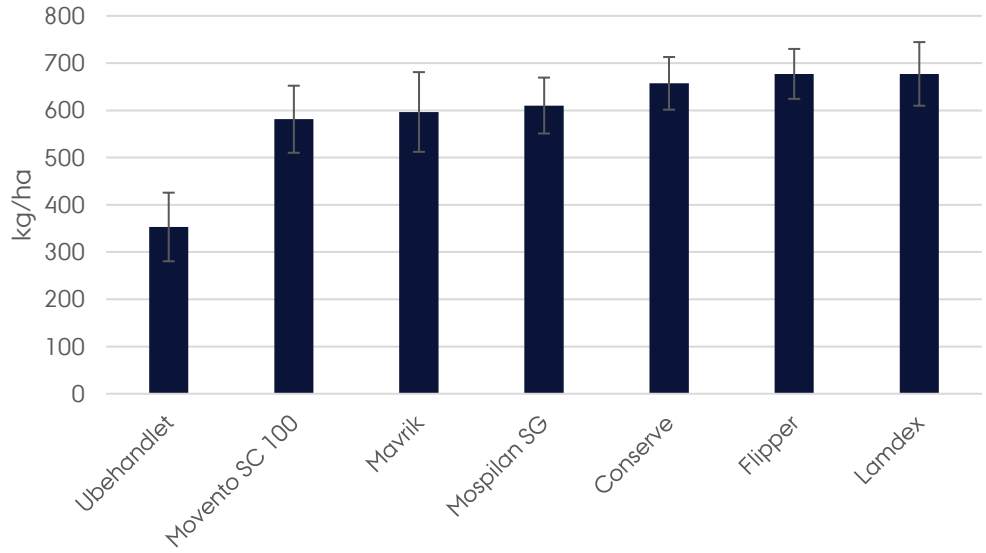
2023

Skårlagt uge 36

Tærsket uge 38

Renset januar 2024

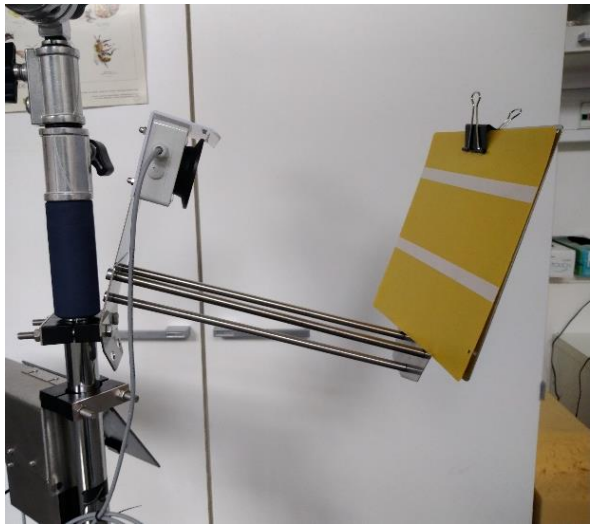




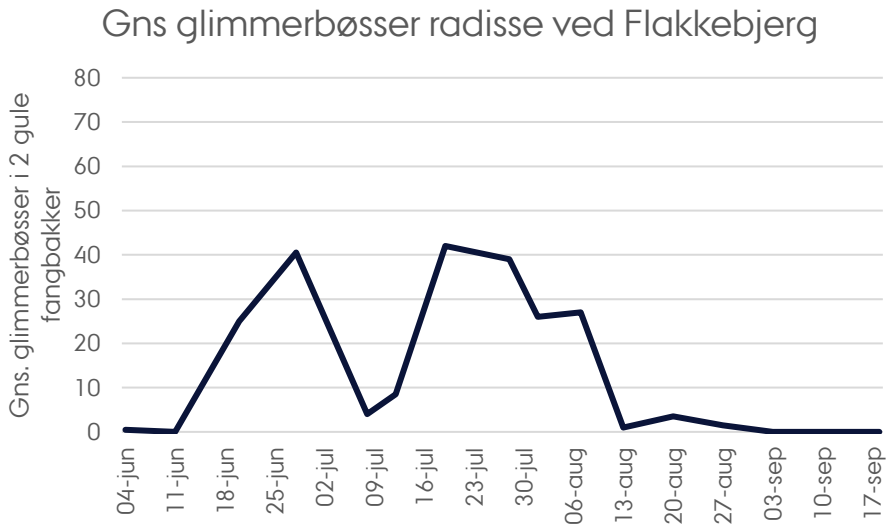
95% konfidensinterval i parvissammenligning: NS
LSD: 215,75, Ubehandlet forskellig fra resten

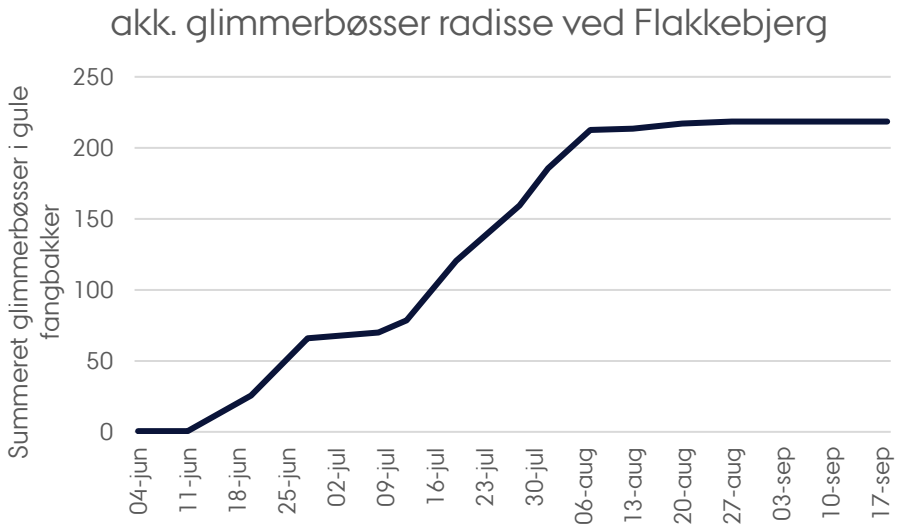
MONITERING 2023

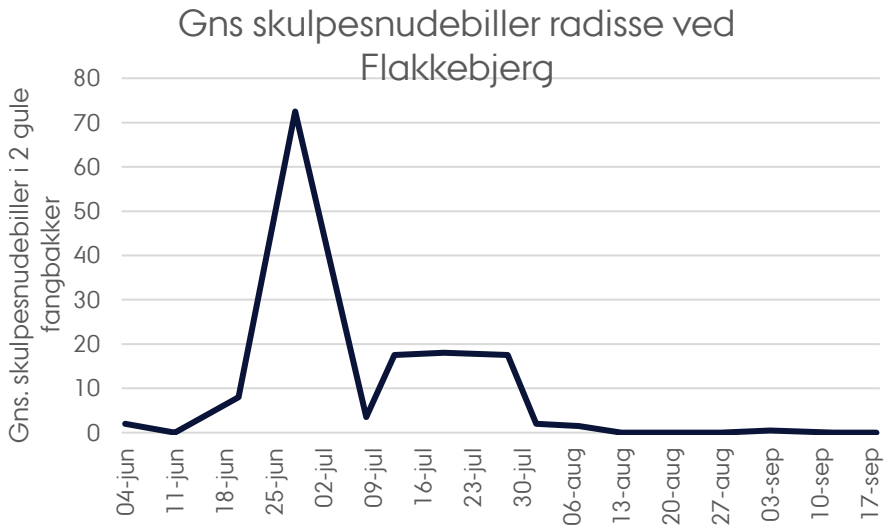
Gul fangbakke, Bayer MagicTrap, Pessl instruments, iSCOUT kamera gul limplade og feromonfælde

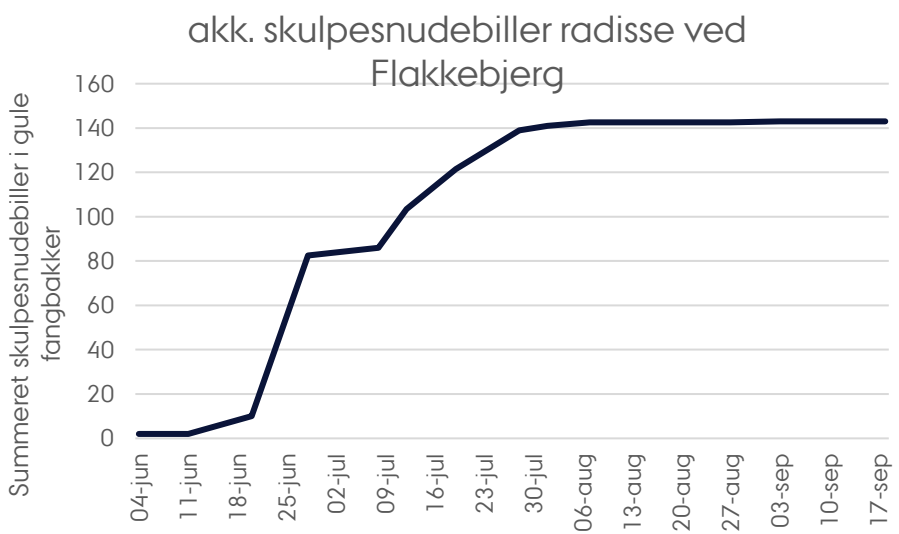


FANGST AF FLAKKEBJERG FANGBAKKER

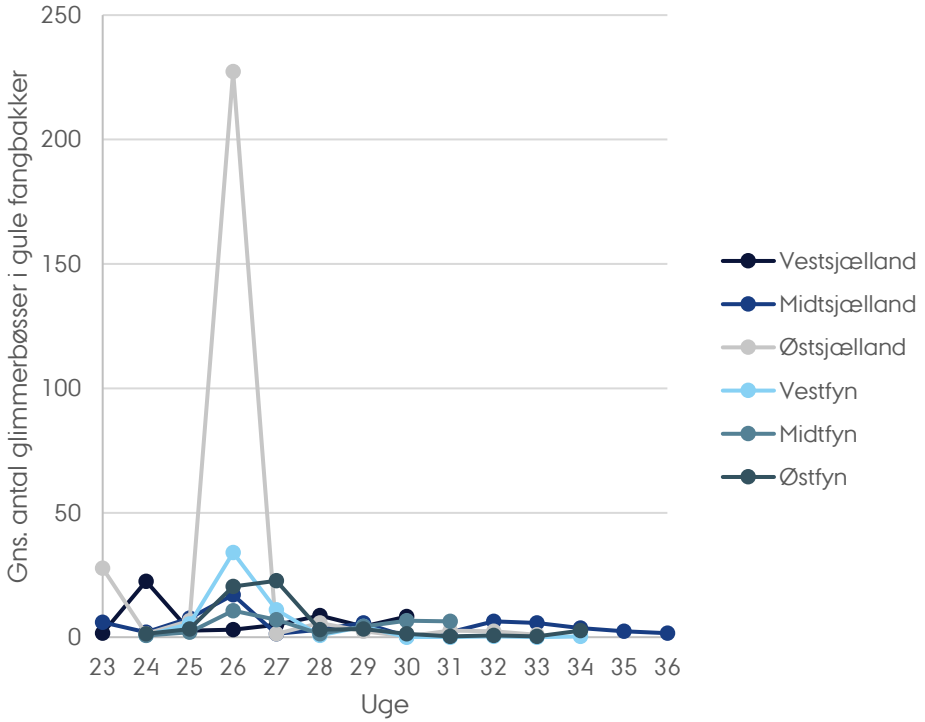


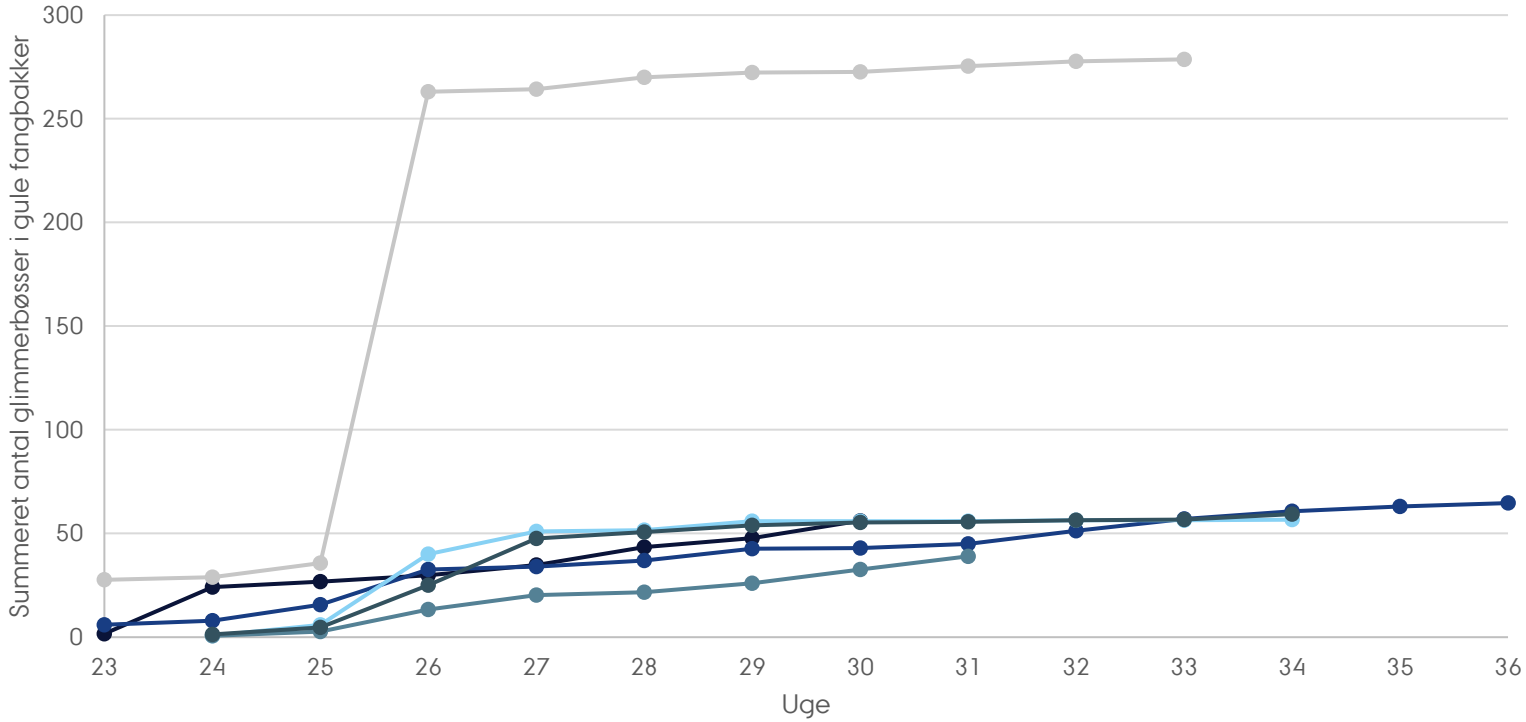




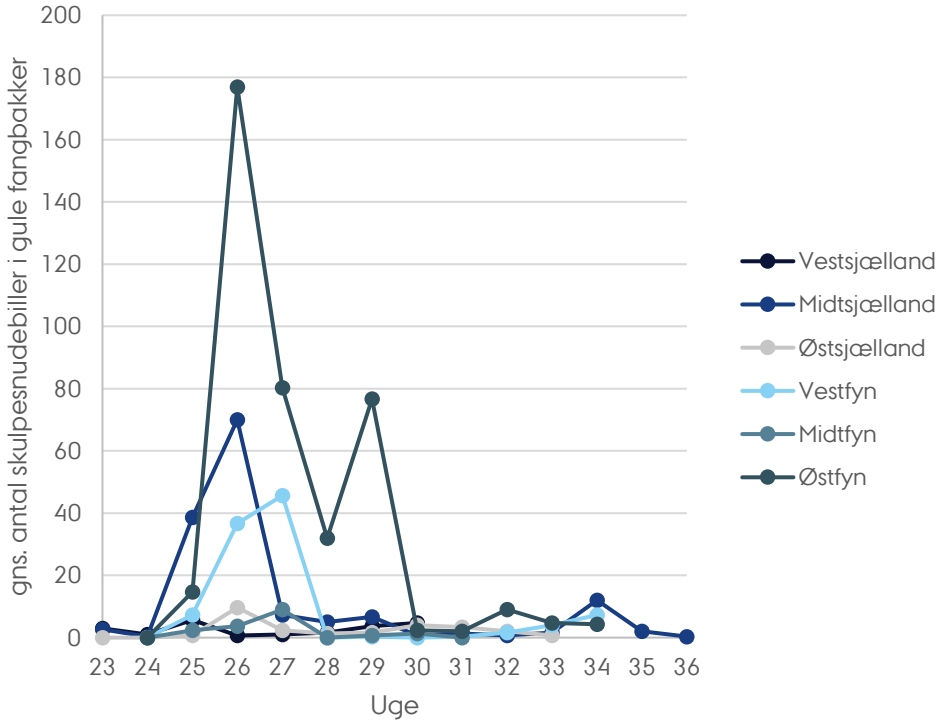


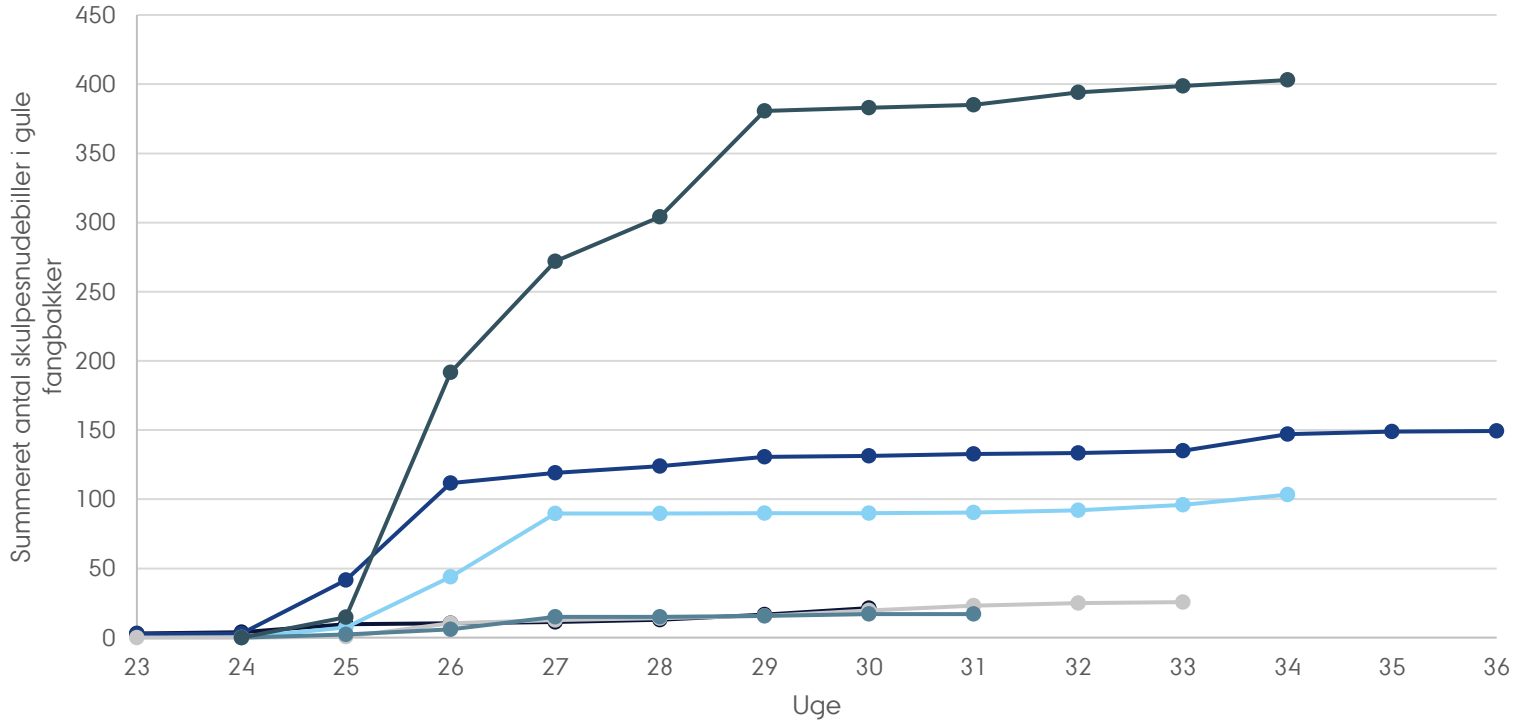
FANGST HOS AVLERE GLIMMERBØSSER



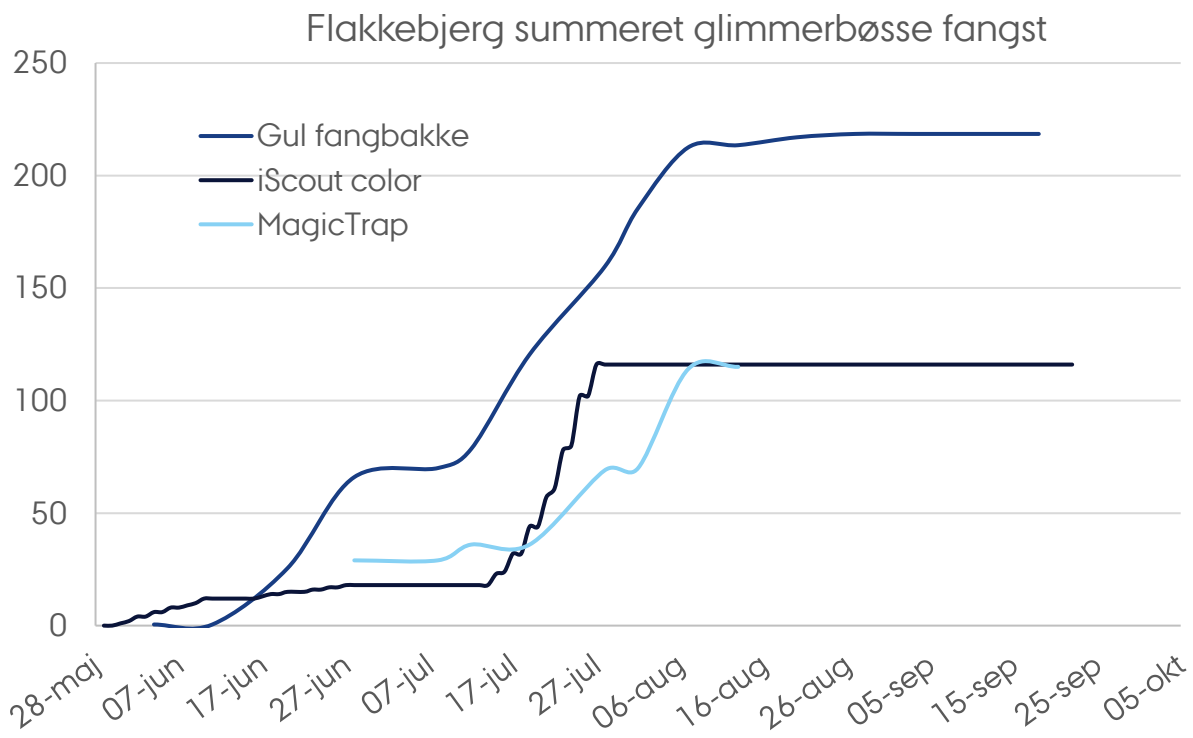


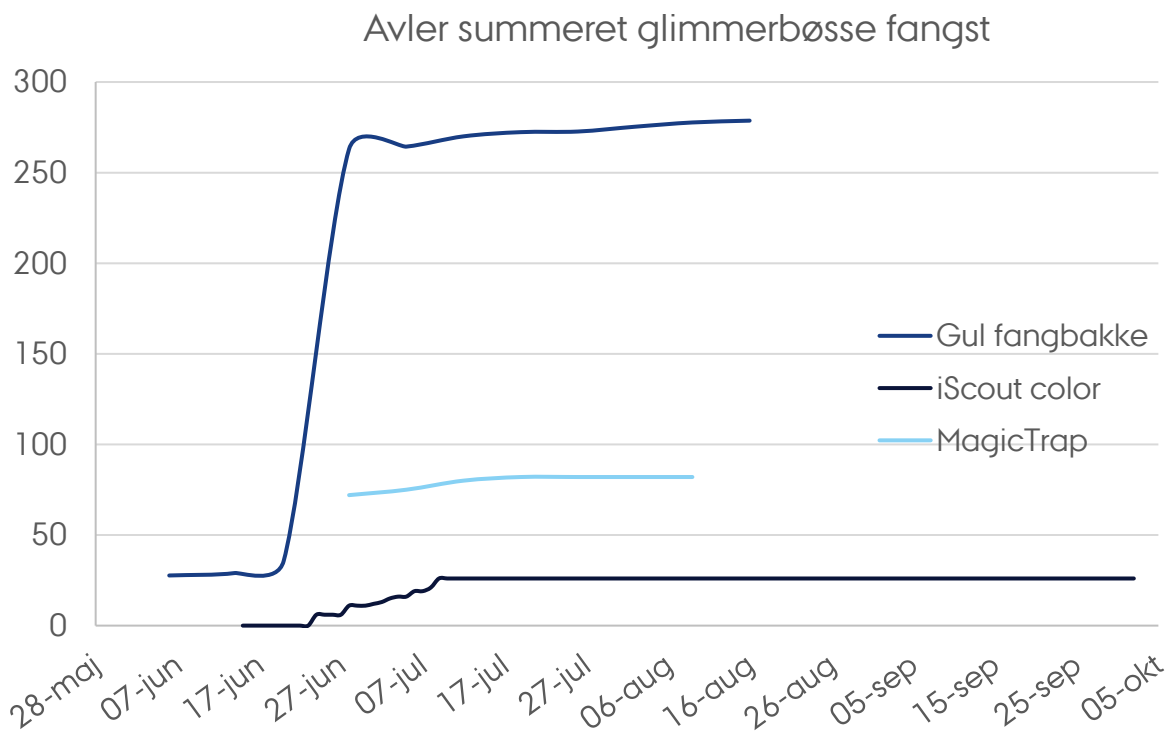
FANGST HOS AVLERE SKULPESNUDEBILLER

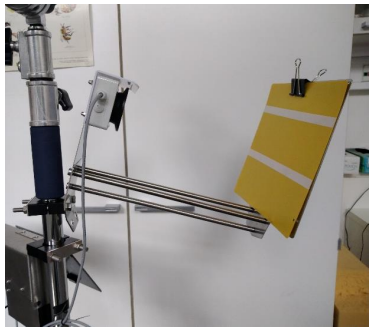




TEST AF FÆLDER - GLIMMERBØSSER

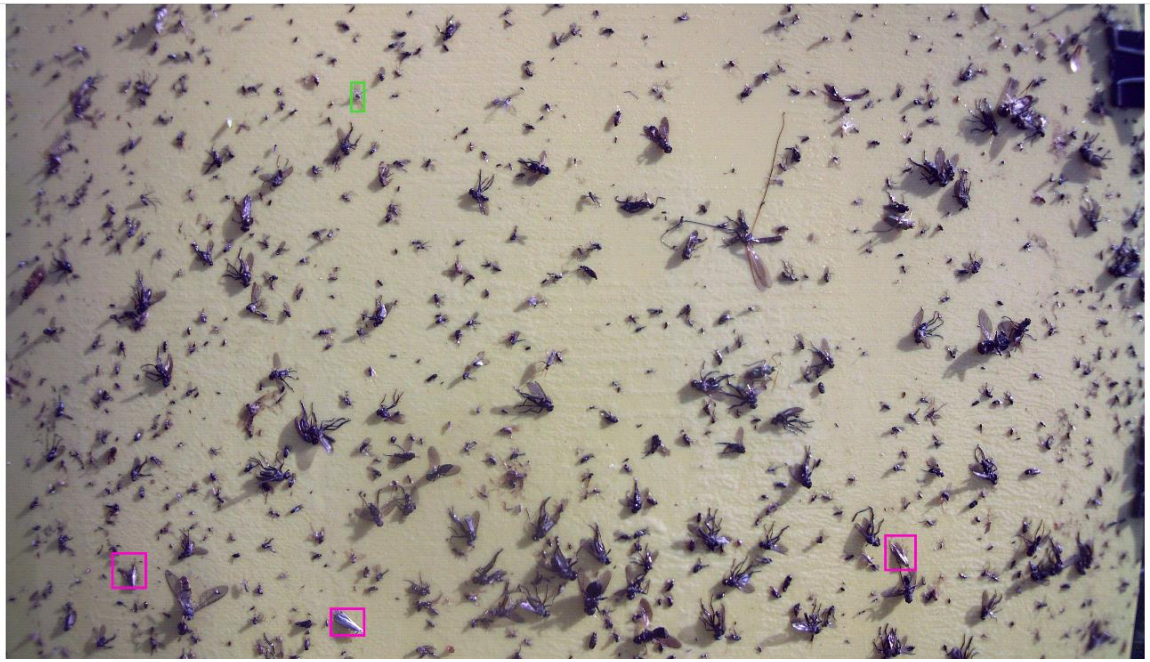






AGRIOTES SP.

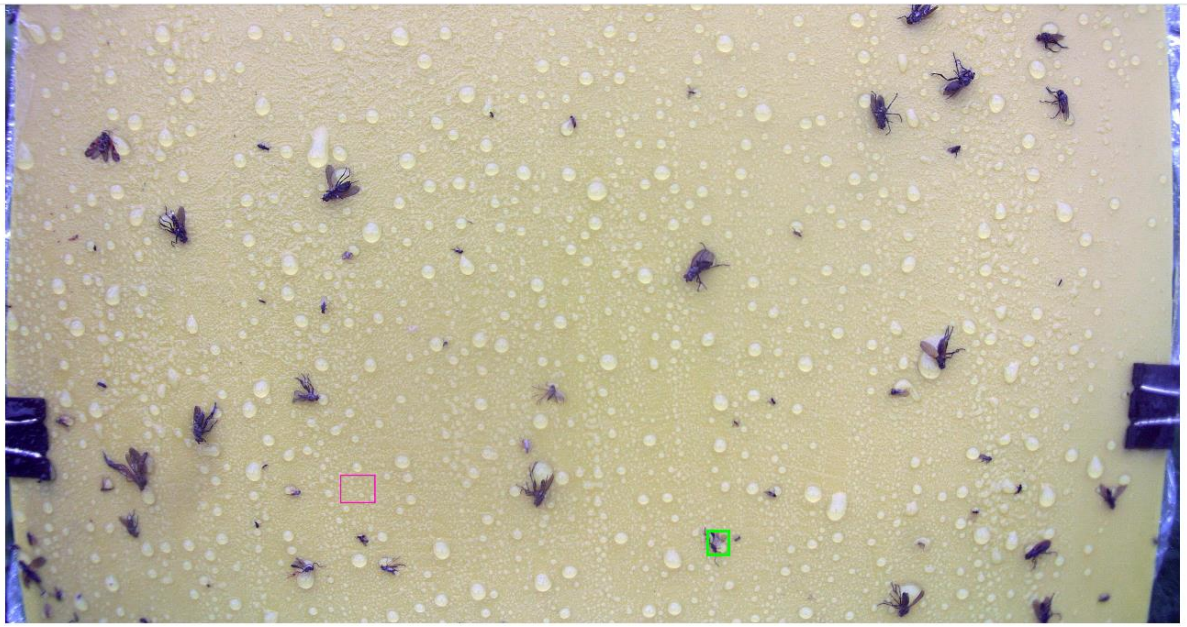
Aphididae 1 | Coleoptera 1 | Diptera 110 | Plutella xylostella 3 | Syrphidae 1 | Tipulidae 2



12/7

AGRIOTES SP.

Aphididae 1 | Coleoptera 3 | Diptera 135 | Hymenoptera 1 | Lepidoptera 1 | Plutella xylostella 1 | Syrphidae 2 | Tipulidae 2



13/7

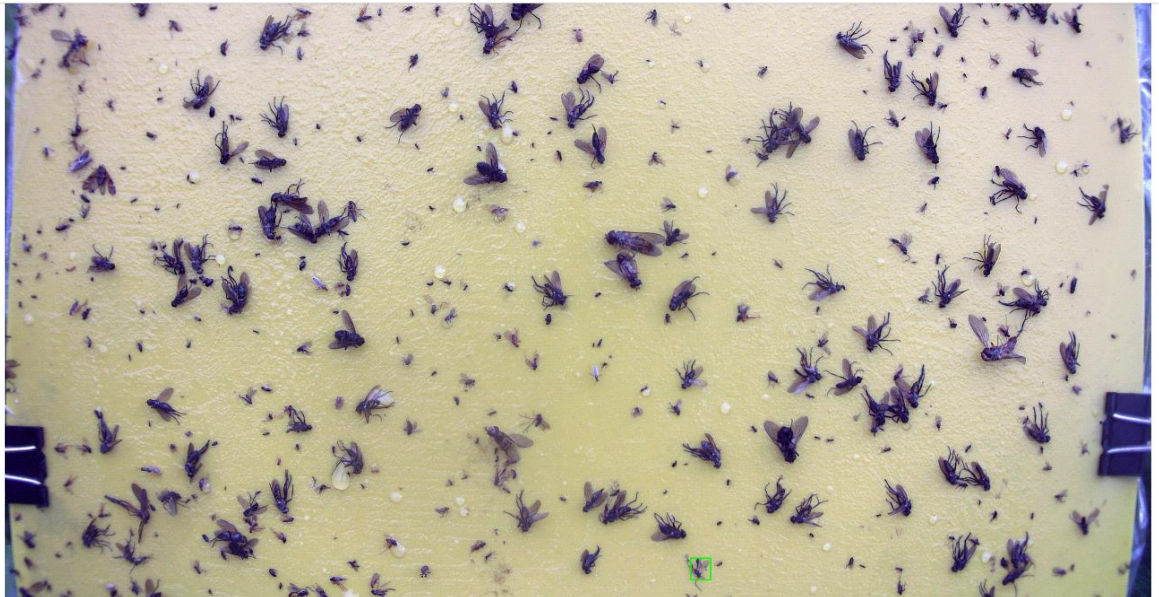
AGRIOTES SP.

Coleoptera 6 | Diptera 113 | Hymenoptera 1 | Lepidoptera 1 | Syrphidae 3

14/7

AGRIOTES SP.

Coleoptera 5 | Diptera 155 | Hemiptera 1 | Hymenoptera 1 | Meligethes sp. 5 | Syrphidae 3



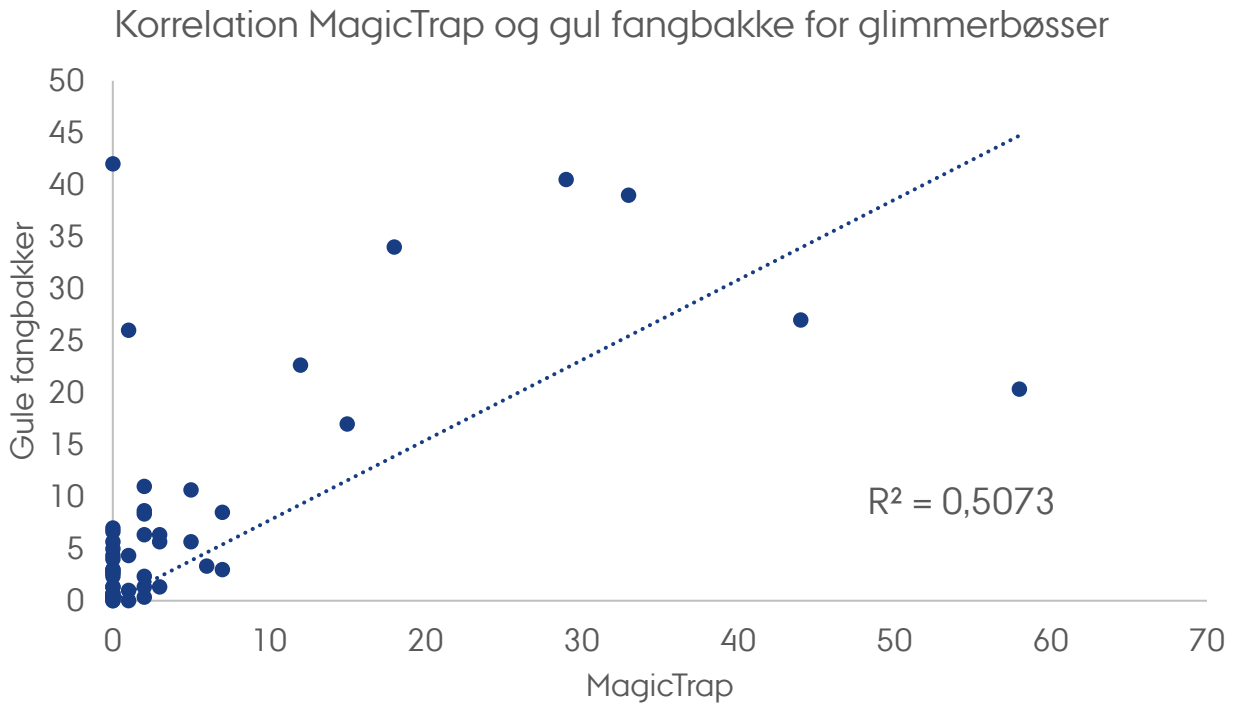
15/7

SAMMENLIGNING AF FÆLDER – GLIMMERBØSSER 2023

Sammenligning af tilgang af glimmerbøsser i fældetypen

2023 kun 1 lokalitet - i 2024, 7 lokaliteter

Fjernet 1 punkter med ekstrem antal fangster af glimmerbøsser

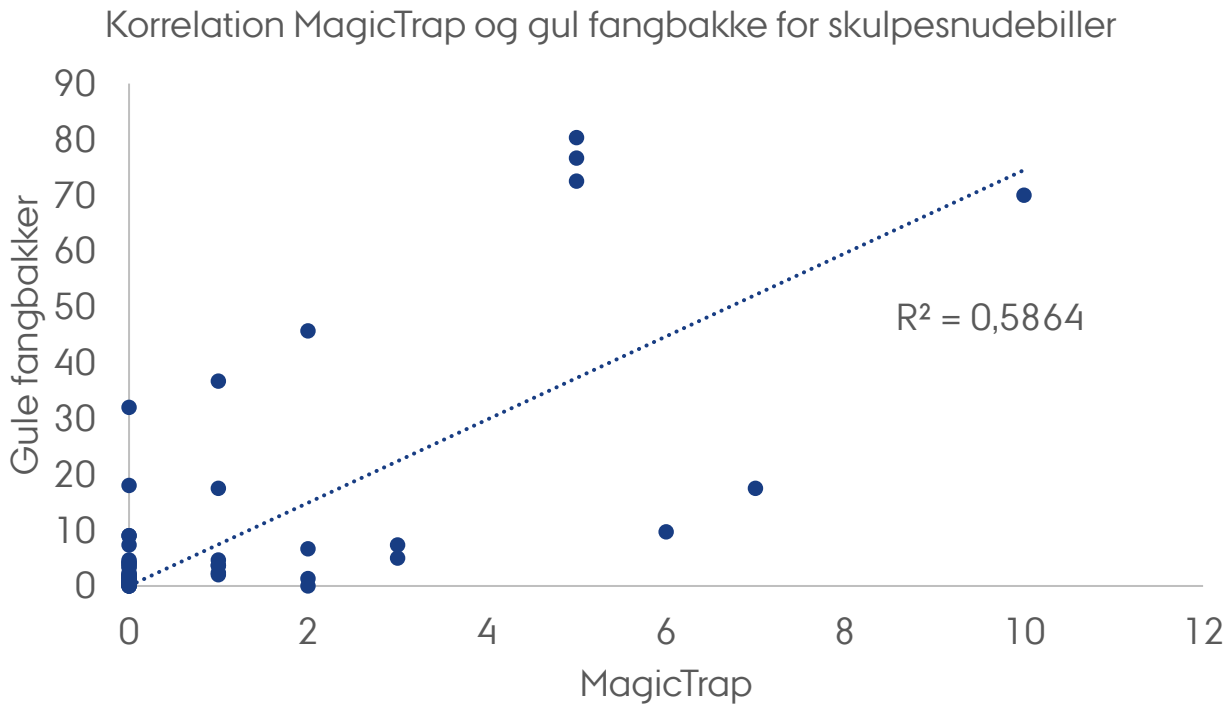


SAMMENLIGNING AF FÆLDER – SNUDEBILLER 2023

Sammenligning af tilgang af snudebiller i fældetypen

2023 kun 1 lokalitet - i 2024, 7 lokaliteter

Fjernet 1 punkter med ekstrem antal fangster af skulpesnudebiller

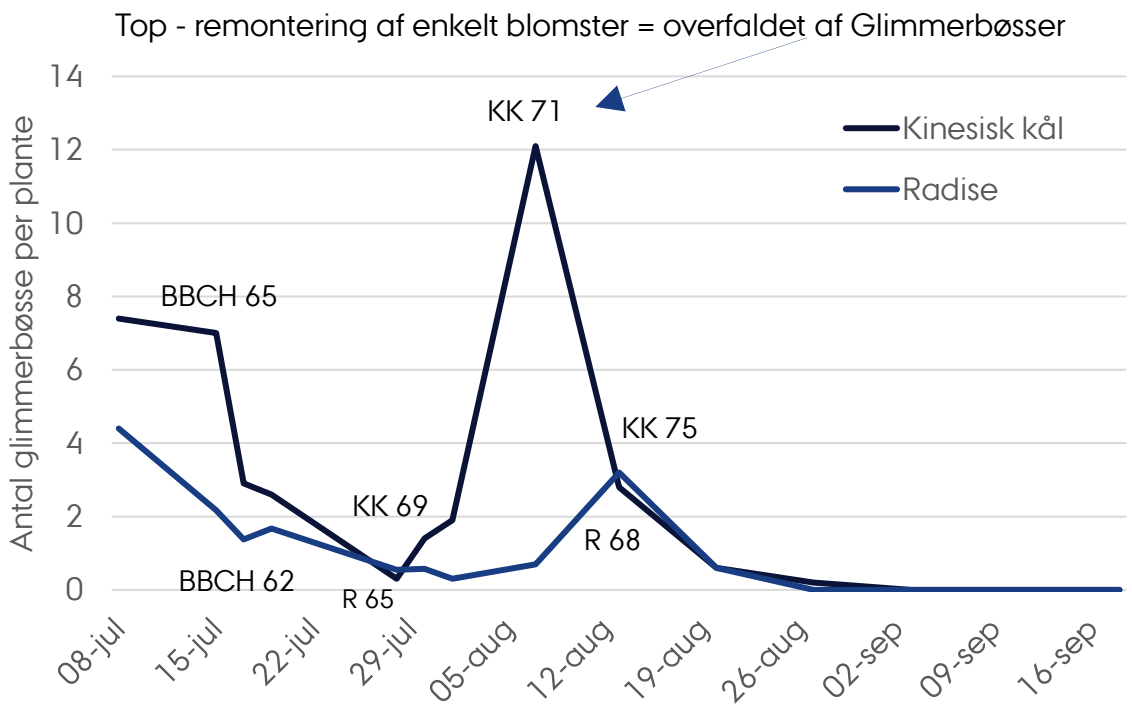


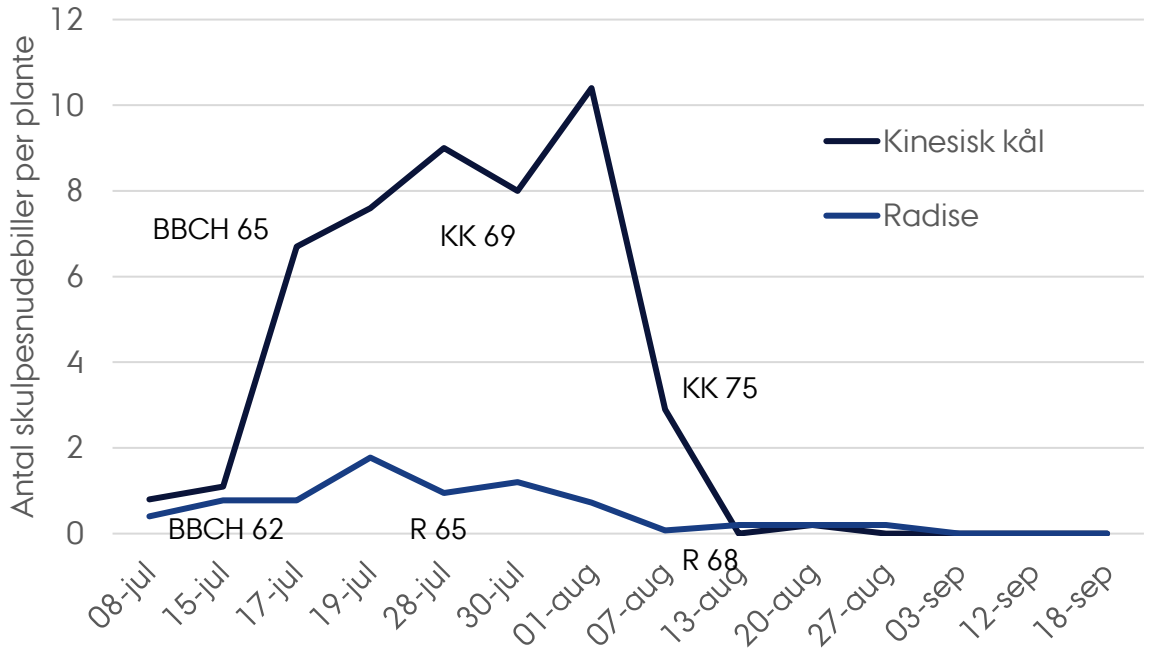
FANGAFGRØDE KINESISK KÅL

Hovedafgrøde radise

Fangafgrøde kinesisk kål

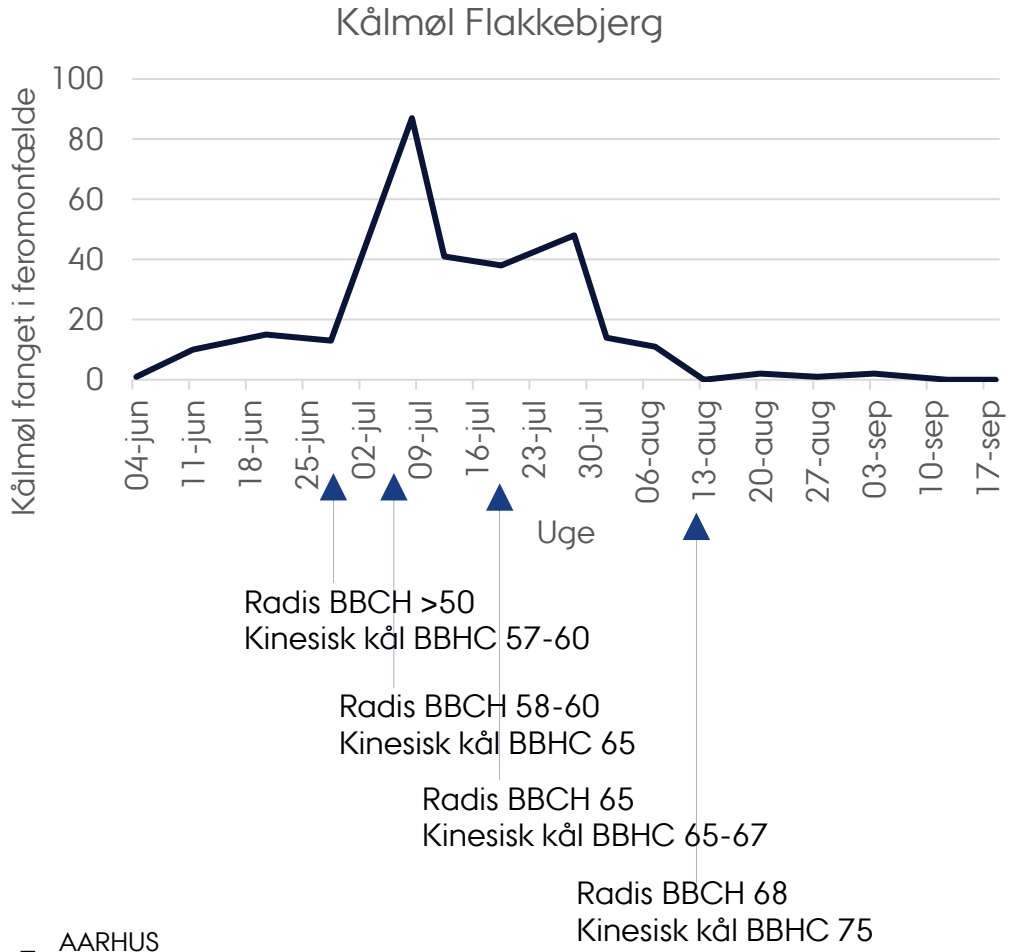
- Skadedyr vil meget hellere være i kinesisk kål end i radise

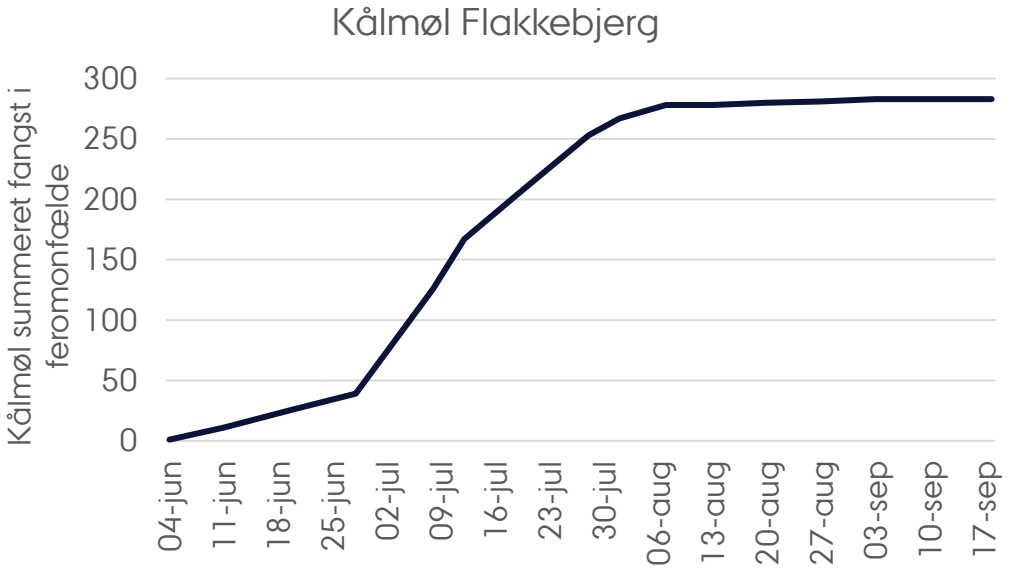




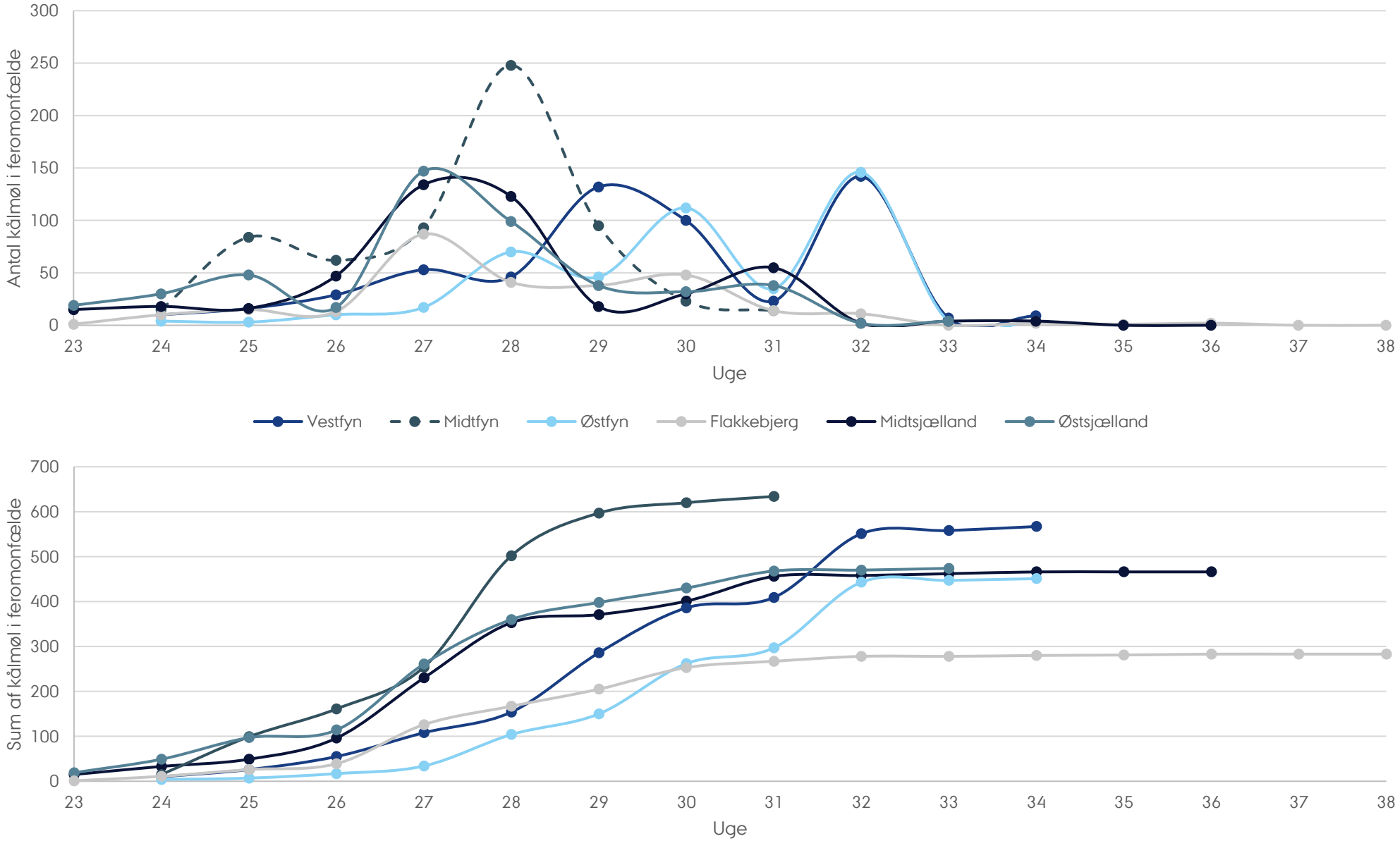
KÅLMØL FLAKKEBJERG

Feromonfælde stod ved radise, 30m til kinesisk kål

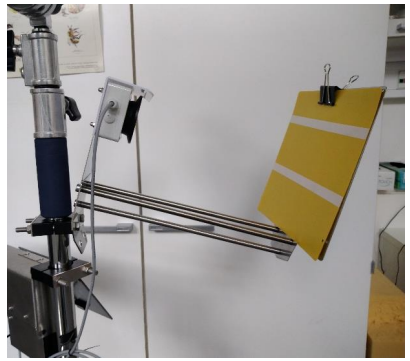


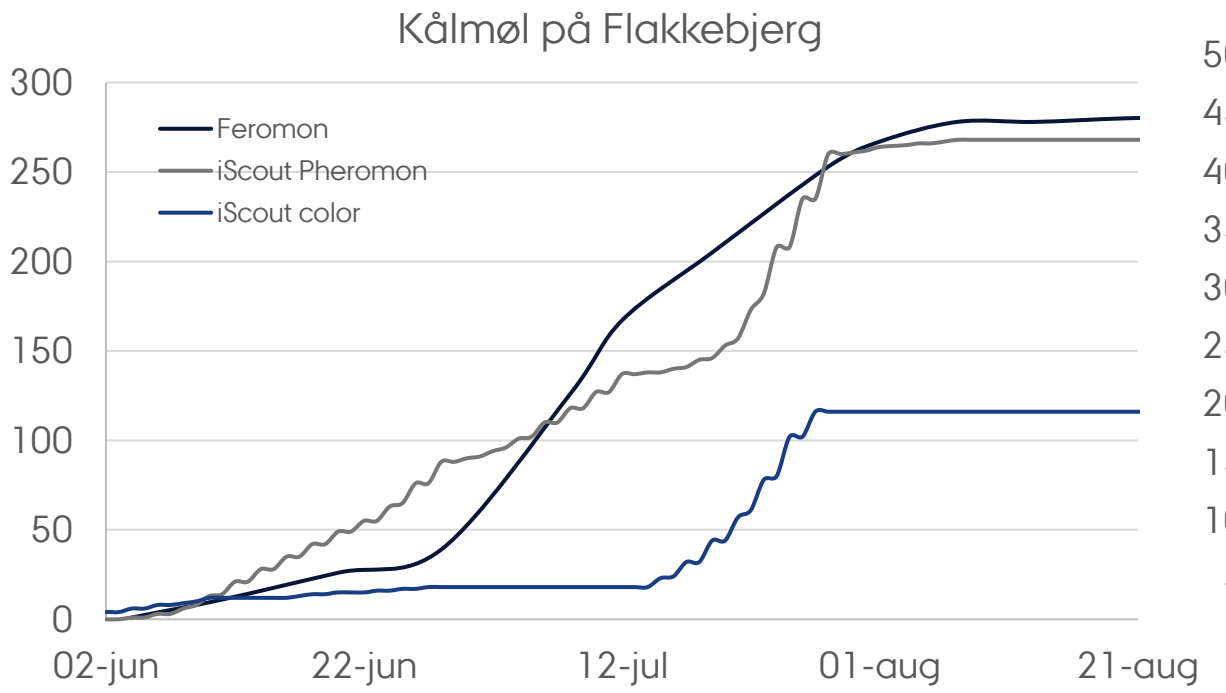


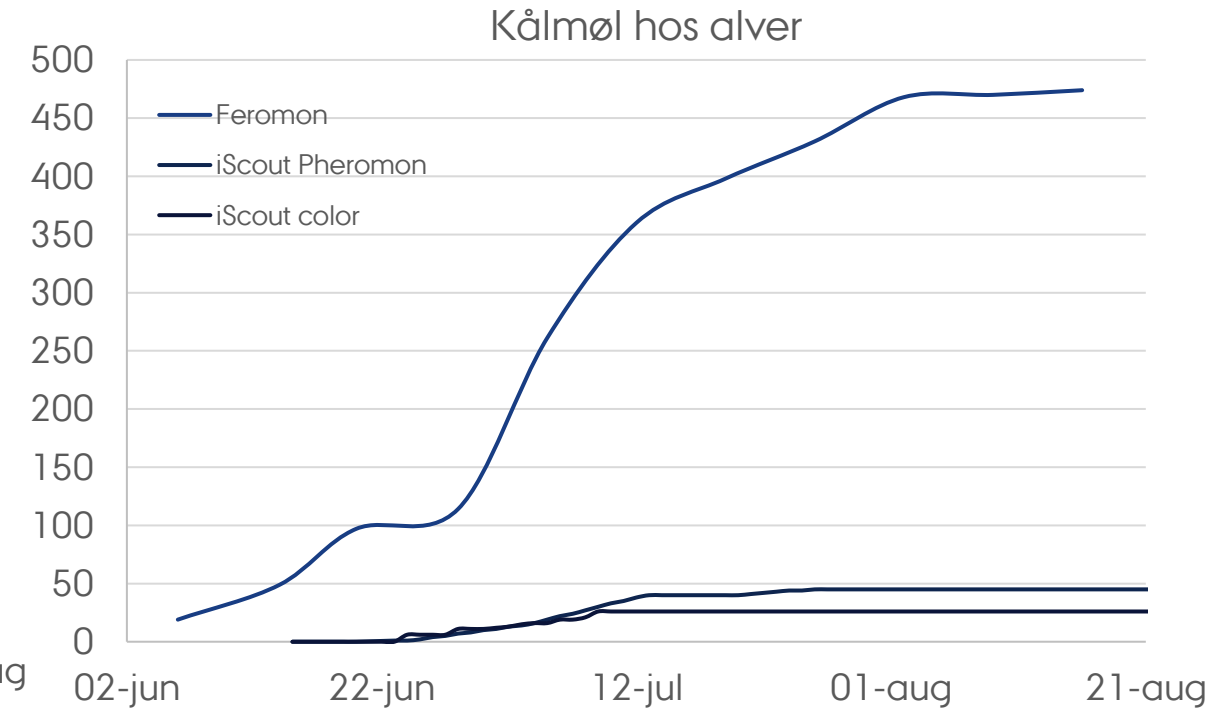
KÅLMØL AVLERE



TEST AF FÆLDER - KÅLMØL

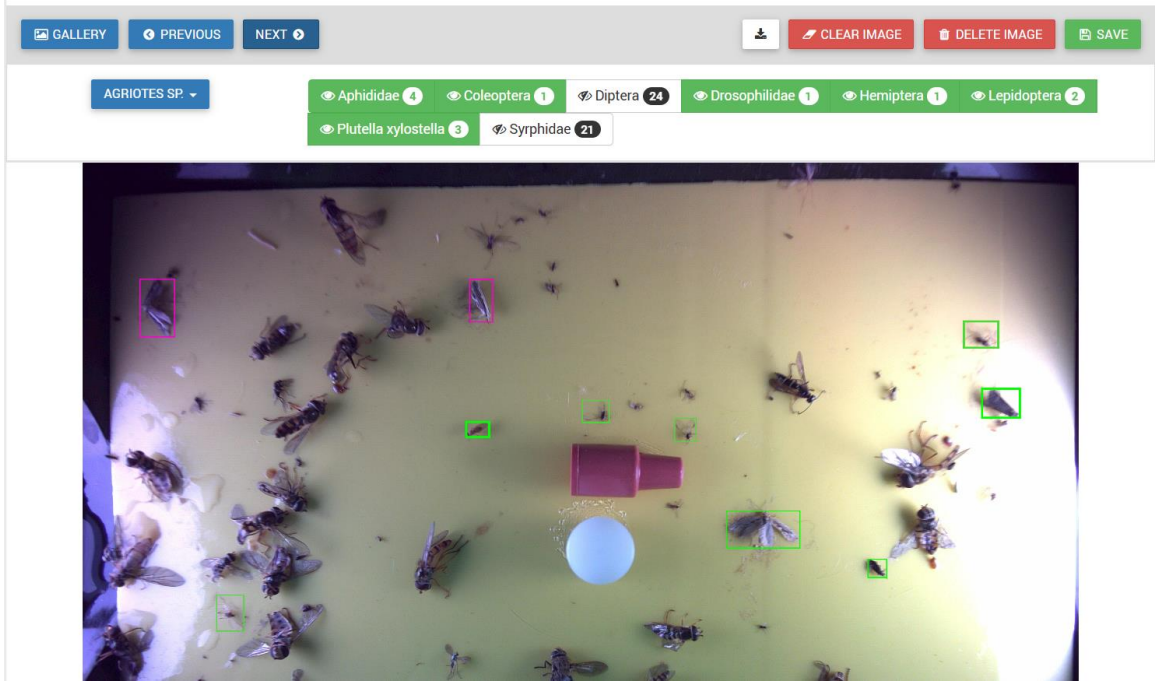




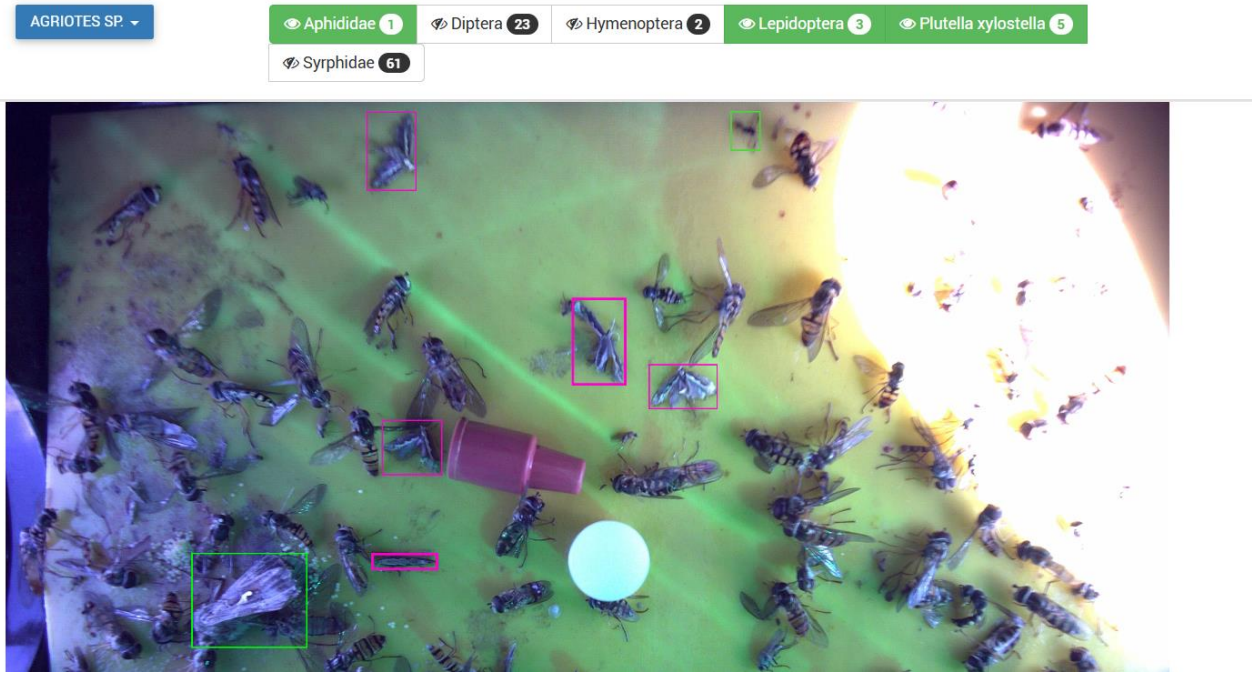


Fælder stod sammen men væk fra feromon fælde

28/6


GALLERY
PREVIOUS
NEXT
CLEAR IMAGE
DELETE IMAGE
SAVE
AGRIOTES SP.
Aphididae 4
Coleoptera 1
Diptera 24
Drosophilidae 1
Hemiptera 1
Lepidoptera 2
Plutella xylostella 3
Syrphidae 21

05/7


AGRIOTES SP.
Aphididae 1
Diptera 23
Hymenoptera 2
Lepidoptera 3
Plutella xylostella 5
Syrphidae 61

HVAD SKAL FÆLDERNE ANVENDES TIL

Vise hvornår den største indflyvning sker i afgrøden

MagicTrap har en app som viser hvad der er i fælden. Hvis fælden ikke tømmes kan man se hvornår der er stor indflyvning. Bør dog tømmes regelmæssigt pga. antallet af insekter

Kamerafælder fra iSCOUT feromon fælde tæt på manuel feromon fælde = overensstemmelse
Kamerafælder fra iSCOUT feromon fælde langt fra manuel feromon fælde = ikke overensstemm.

Manuelle metoder daglig/ugentligt tømning, optælling og følge udvikling i skema

SEGES opgivet gulefangbakker for rapsjordloppe pga. for store forskelle i vinterrapsmarker

- Placering vigtig
- Anvend flere gule fangbakker per mark.
- Fælderne skal stå spredt i mark – skadedyr kommer sandsynligvis fra bestemt retning, men hvilken!

AARHUS
UNIVERSITET