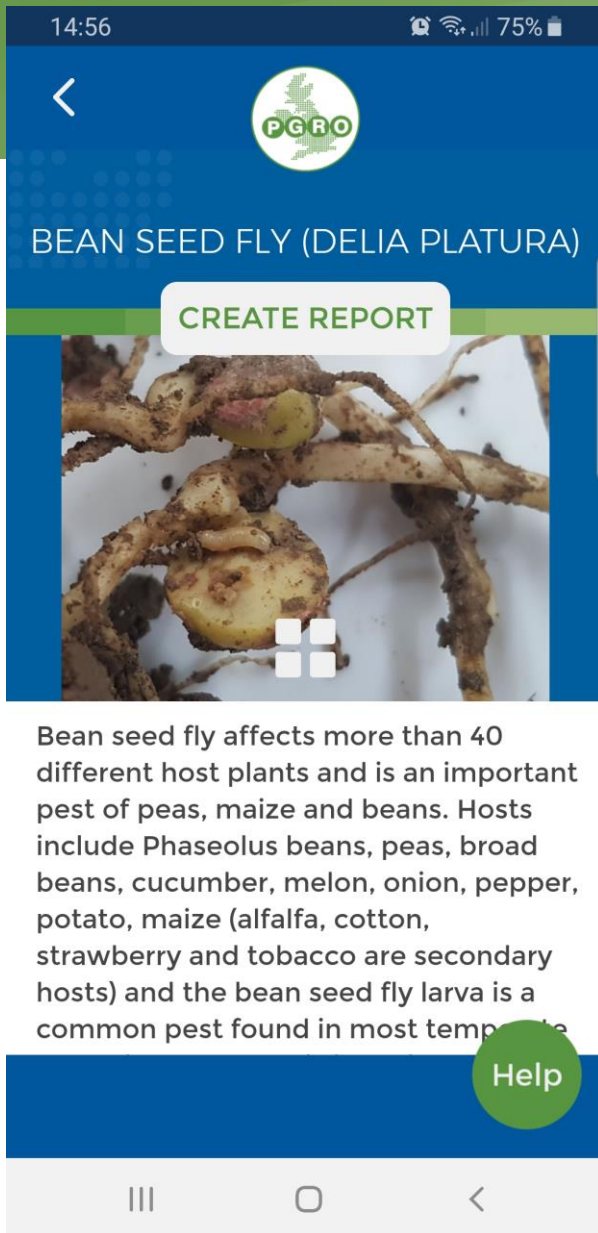




Cultural management and monitoring of bean seed fly



- The bean seed fly reporting app became available in March 2019 as part of the AHDB Horticultural Strategic Centre for Field Vegetables (FV462)
- So far we've had a total of 36 reports, 16 in 2019, 16 in 2020, and 4 in 2021 in vining peas, broad beans, runner beans and spinach
- Reports are from Yorkshire, Lincolnshire, Warwickshire, Herefordshire, Norfolk and Sussex
- For further information go to <https://www.pgro.org/agronomy-app-tools/>

2019, 2020 and 2021 Survey in Yorkshire and Lincolnshire



- Attractant traps to monitor peak pest presence (10 sites 2019, 8 sites 2020, 9 sites in 2021)
- Sowing timing both general and related to period following cultivation
- Cultivation techniques – drill type/ direct drilling/ min-till/ drilling depth
- Foot rot risk in BSF damaged plants
- Preliminary look at nematodes for control (*Steinernema feltiae*) at field scale



Monitoring



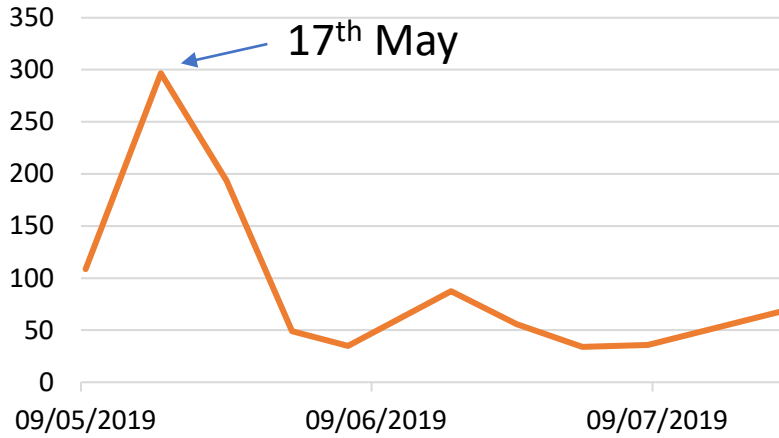
Stemgold Peas
Proudly growing Lincolnshire peas for over 15 years

Yorkshire

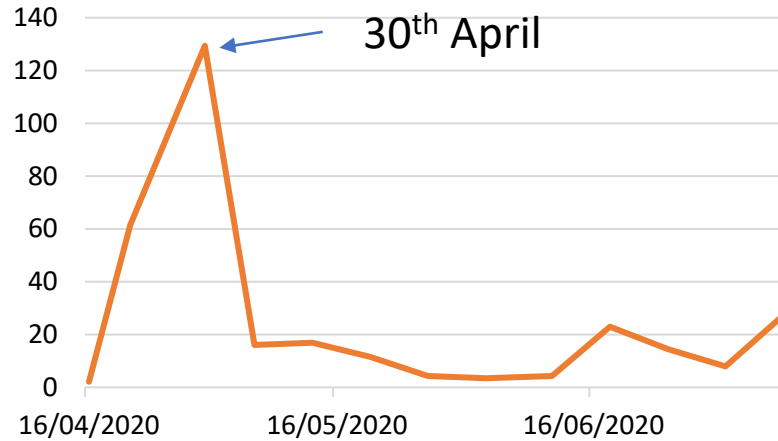
Lincolnshire



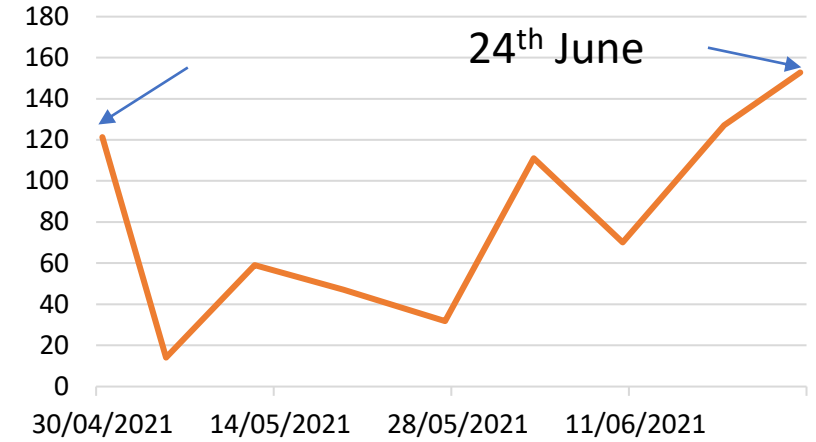
Yorkshire 2019 mean of 7 sites



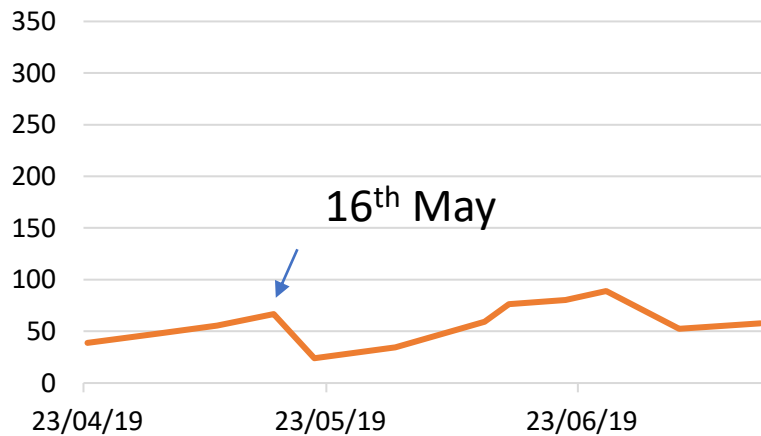
Yorkshire 2020 mean of 5 sites



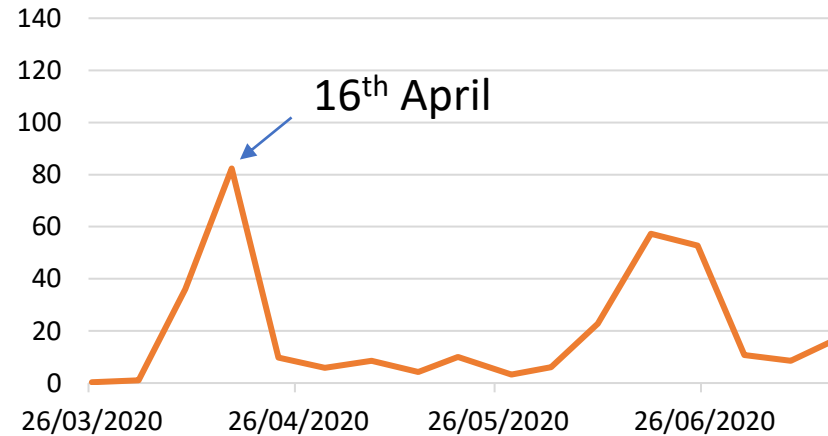
Yorkshire 2021 mean of 8 sites



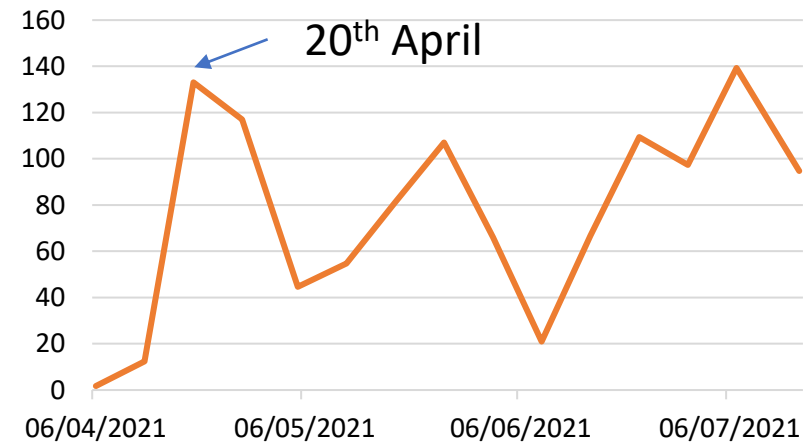
Lincolnshire 2019 mean of 3 sites



Lincolnshire 2020 mean of 3 sites



Lincolnshire 2021 mean of 3 sites



2019-2021 survey



- **2019 work indicated the following:**

- There were differences in timing of peak adult activity in different regions
- The period 10 days before and after peak activity was high risk for drilling
- the period between cultivation and drilling seemed to have an effect on damage levels

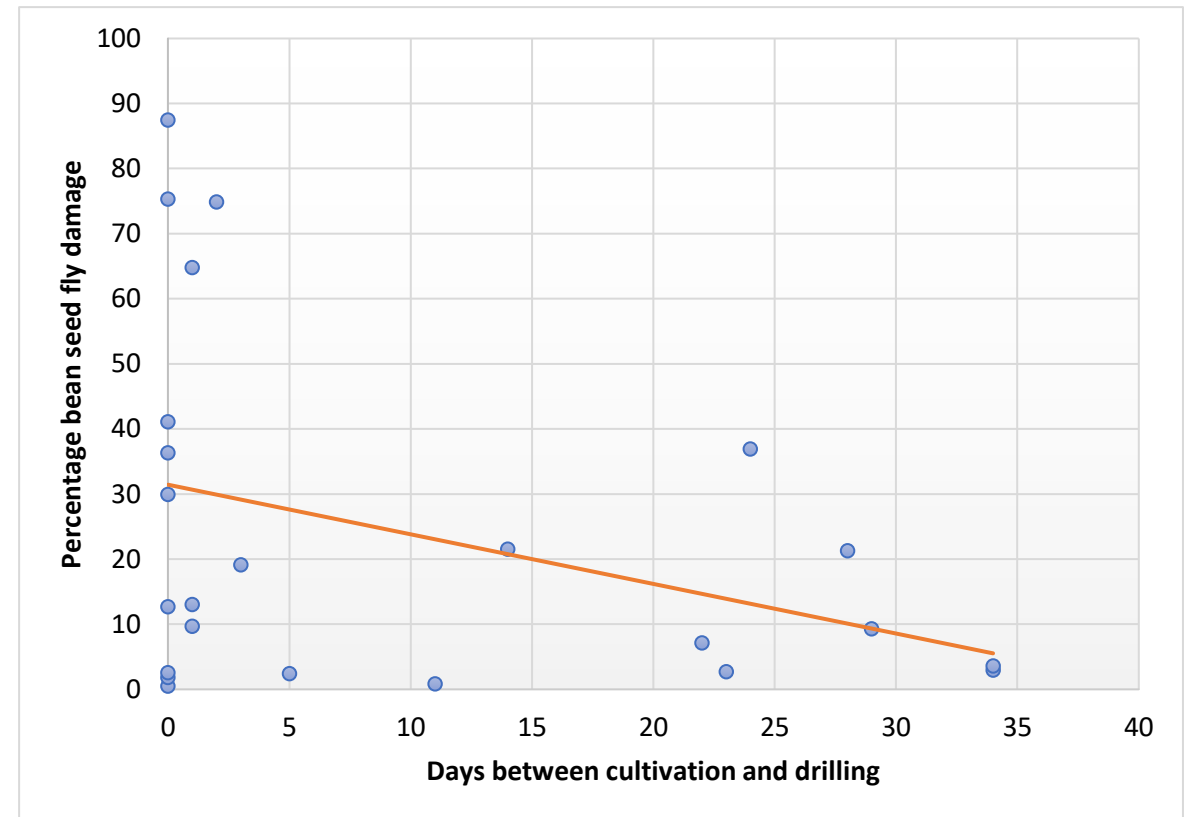
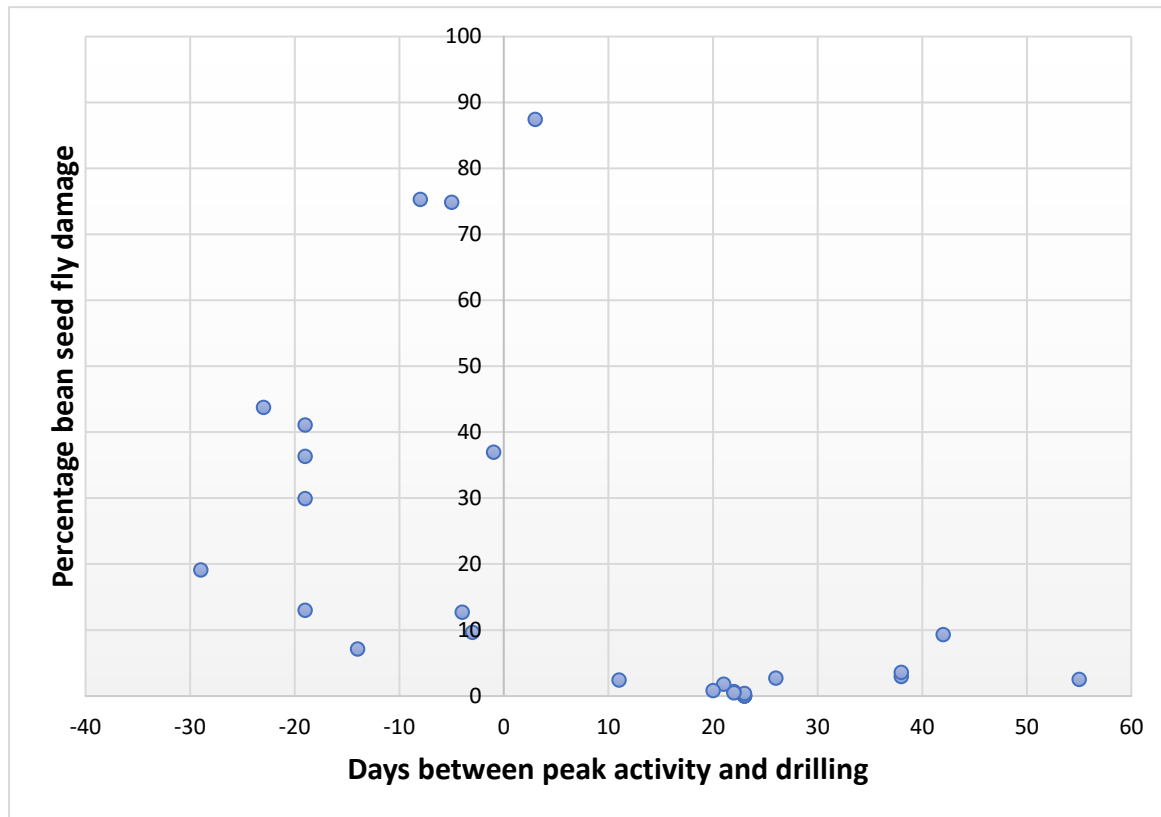
- **2020 work indicated the following:**

- The period around peak activity was not as clear as in 2019 and it seemed that, although highest levels of damage were recorded in crops sown within 10 days of peak activity, activity and damage continued in crops at low to medium levels after this

- **2021 work indicated the following:**

- There were differences in timing of peak adult activity in different regions
- The period 5-10 days before and after peak activity was high risk for drilling
- the period between cultivation and drilling seemed to have an effect on damage levels
- Damage levels were lower in 2021 overall

2019-2021 survey

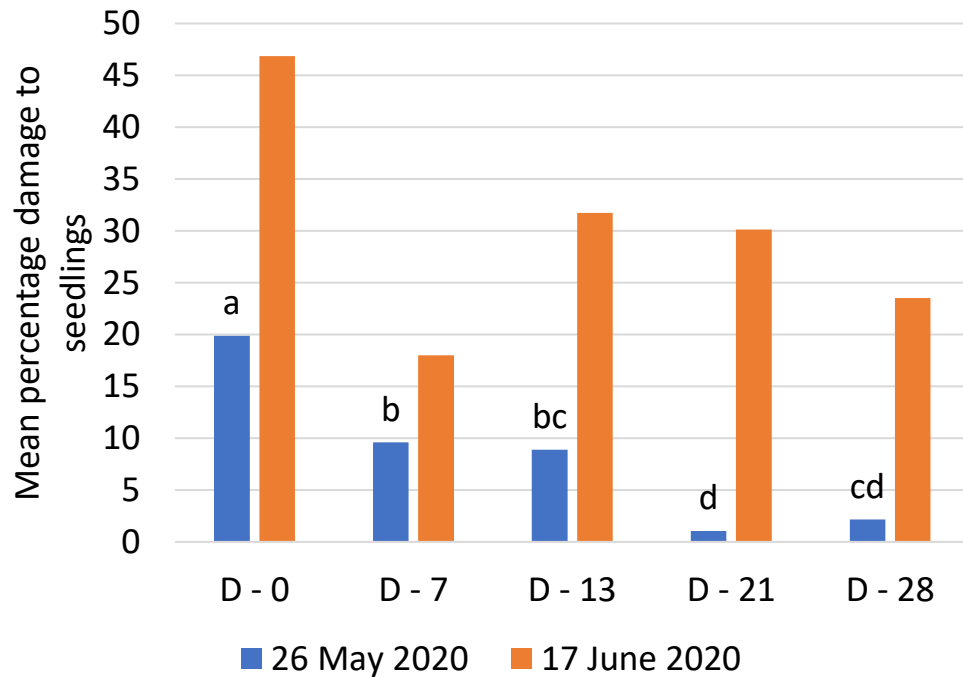


Cultivation trial, Stubton, 2020 and 2021

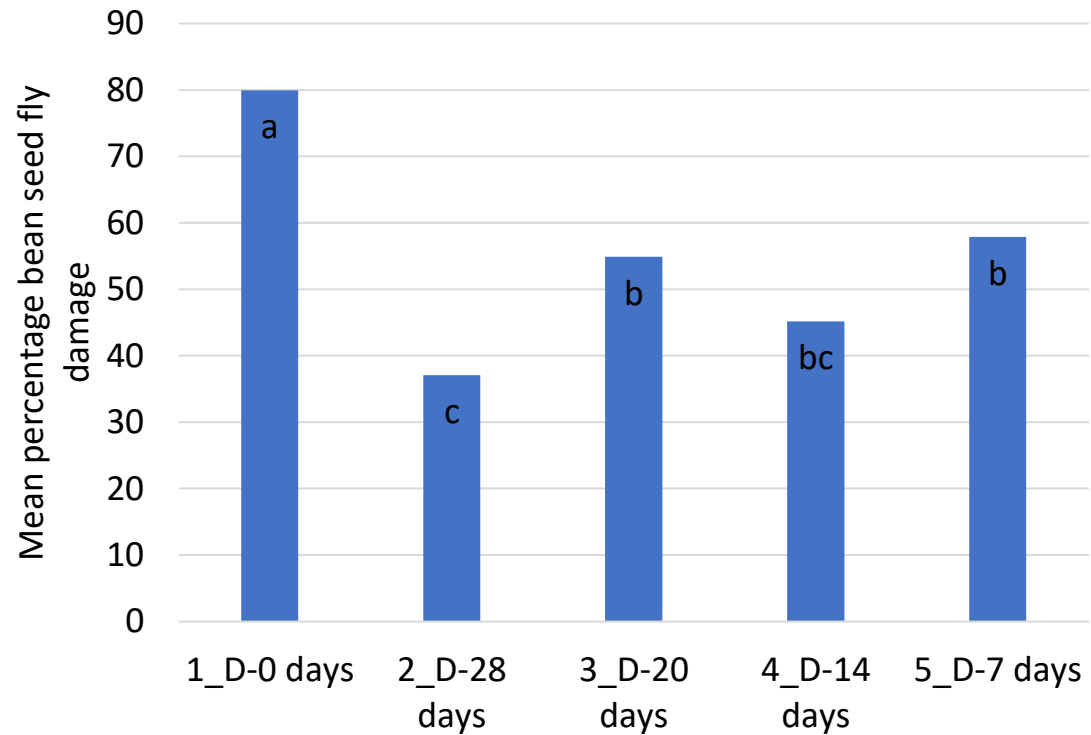
Drilled 27th April in both years



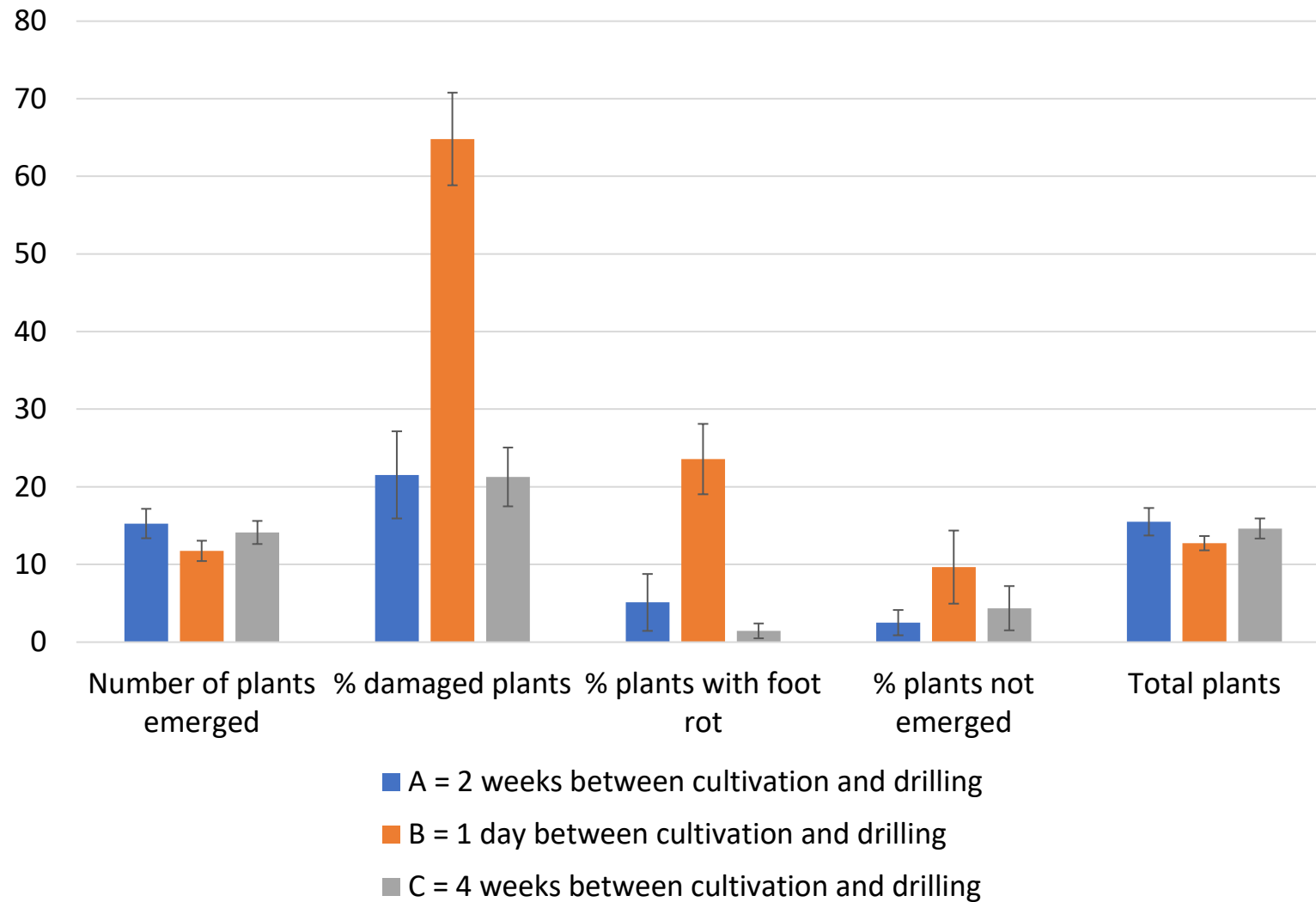
Bean seed fly larval damage 2020



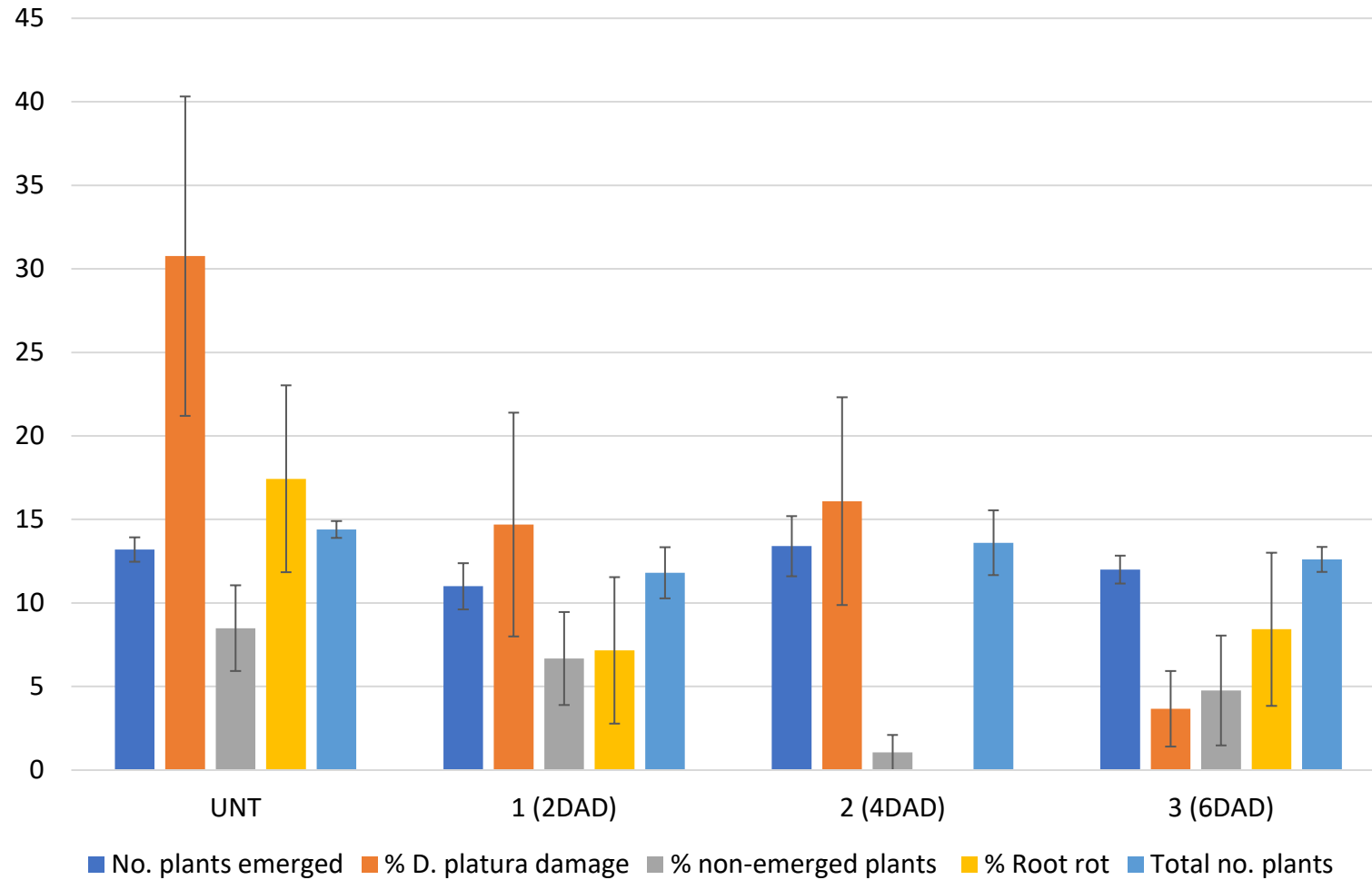
Bean seed fly larval damage 2021



Cultivation trial, Yorkshire 2021 (field-scale)



Entomopathogenic nematodes, Lincolnshire 2021 (field-scale)



Thank you



Stemgold Peas

Proudly growing Lincolnshire peas for over 15 years

- Thanks to Matthew Hayward, Nick Lount, Ewan Findlay, Ian Watson, Liz Johnson and Phil Langley for monitoring and reporting, and Jo Arden for fly identification
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- Or call 01780 782585
- Download the App from Google and Apple stores

