

Rothamsted Repository Download

A - Papers appearing in refereed journals

Seimandi-Corda, G., Jenkins, T. and Cook, S. M. 2021. Sampling pollen beetle (*Brassicogethes aeneus*) pressure in oilseed rape: which method is best? *Pest Management Science*. <https://doi.org/10.1002/ps.6310>

The publisher's version can be accessed at:

- <https://doi.org/10.1002/ps.6310>
- <https://onlinelibrary.wiley.com/doi/10.1002/ps.6310>

The output can be accessed at:

<https://repository.rothamsted.ac.uk/item/98253/sampling-pollen-beetle-brassicogethes-aeneus-pressure-in-oilseed-rape-which-method-is-best>.

© 31 January 2021, Please contact library@rothamsted.ac.uk for copyright queries.

1 **Supporting information:**

2

3 Table S1. Agronomical information on the different oilseed rape (OSR) crops sampled in eight different fields on
4 Rothamsted farm (UK, 2019).

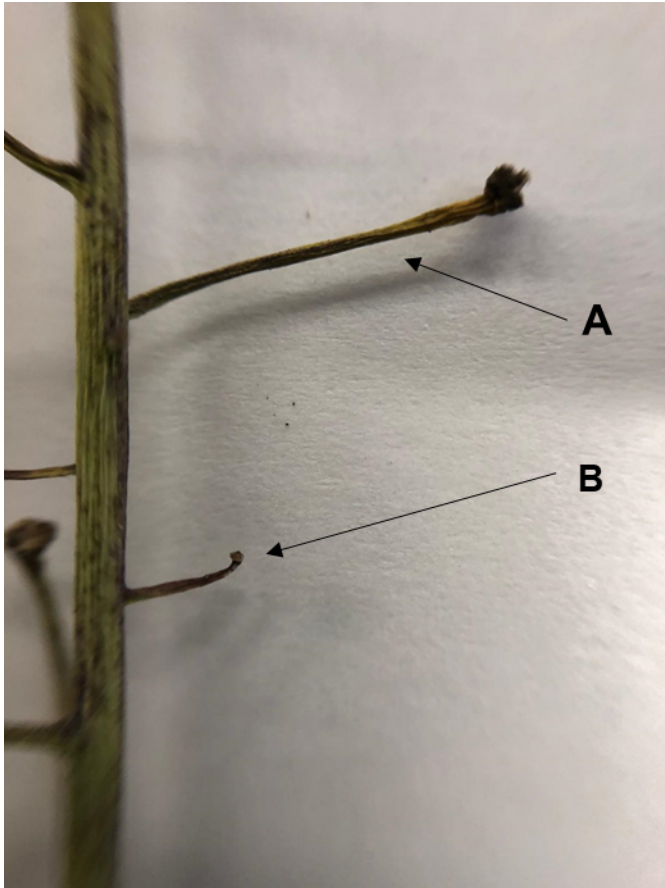
Field name	Field size (ha)	Previous crop	OSR genotype/breeder	Drilling date	Seed rate (s/m ²)	Insecticides used Product/ rate	Application date
Delafield	2.49	Winter wheat	Barbados (KWS)	22/08/2018	70	Biscaya (300 ml/ha)	12/04/2019
Furzefield	0.95	Winter OSR	PT240CL (Pioneer)	24/08/2018	60	Biscaya (300 ml/ha)	12/04/2019
Great Knott	4.21	Winter barley	PT240CL (Pioneer)	24/08/2018	50	Biscaya (300 ml/ha)	12/04/2019
Highfield	4.1	Winter OSR	Campus (KWS)	23/08/2018	70	No	NA
Long Hoos	5.9	Winter wheat	Campus (KWS)	24/08/2018	70	Biscaya (300 ml/ha)	12/04/2019
New Zealand	3.88	Winter wheat	Campus (KWS)	24/08/2018	70	No	NA
Osier	5.83	Winter barley	Campus (KWS)	23/08/2018	70	Biscaya (300 ml/ha)	12/04/2019
Webbs	2.9	Winter wheat	Campus (KWS)	23/08/2018	70	Biscaya (300 ml/ha)	12/04/2019

5

6 Table S2. Results of the correlation tests made between the numbers of oilseed rape buds damaged by pollen
7 beetles on the main inflorescence before flowering and the numbers of podless stalks on the main inflorescence
8 before harvest in eight different crops in on Rothamsted farm (UK, 2019). ns = $p > 0.05$, * = $p < 0.05$, ** = $p < 0.01$,
9 *** = $p < 0.001$.

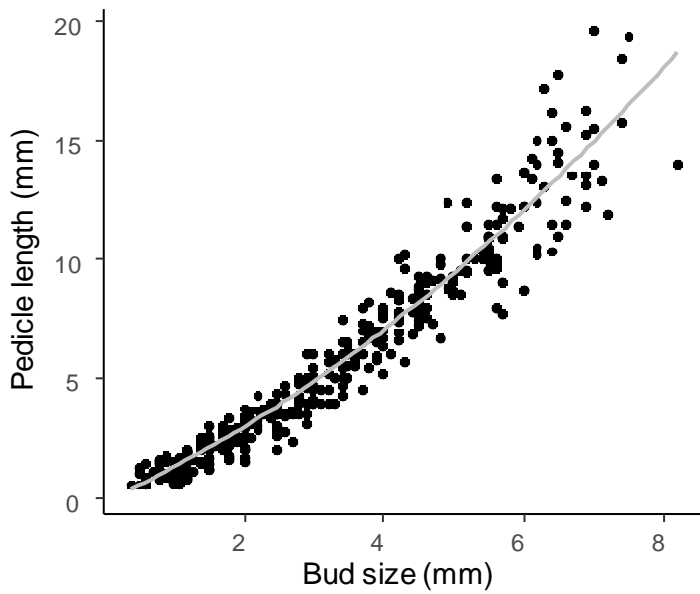
Field	<i>r</i>	<i>df</i>	<i>p</i>
Delafield	0.41	23	0.317
Furzefield	0.51	23	0.073
Great Knott	0.47	22	0.172
Highfield	0.66	22	0.003 **
Long Hoos	0.71	23	0.001 **
New Zealand	0.75	23	< 0.001 ***
Osier	0.76	23	< 0.001 ***
Webbs	0.45	22	0.218

10



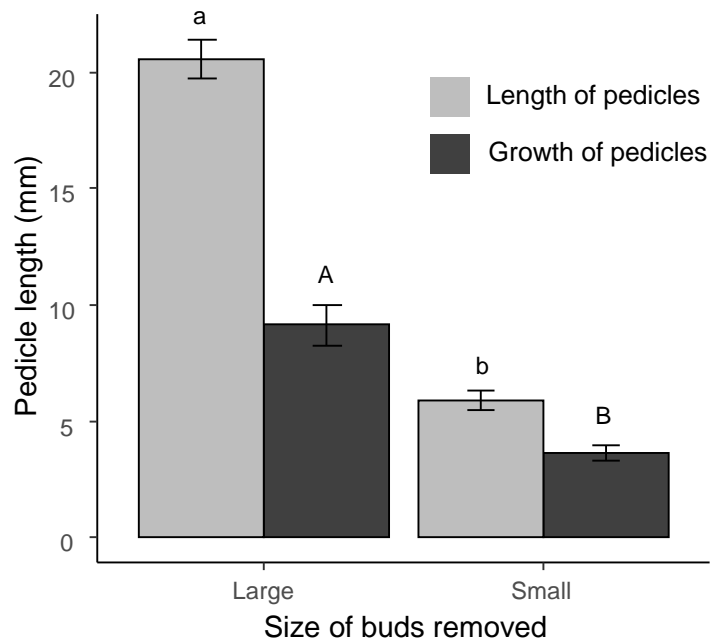
11
12
13
14
15

Figure S1. Part of an oilseed rape stem on a desiccated plant with A) a large podless stalk with a thick tip indicating that a pod partially developed before falling, and B) a small, thin podless stalk left by the abortion of a bud.



16
17
18
19

Figure S2. Relationship between size (mm) of the pedicle and the floral buds on oilseed rape racemes. Data collected from buds from ten main inflorescences of plants reared in a glasshouse.



20

21 Figure S3. Length (mm) of pedicles measured at the end of the plant growth phase (BBCH 67) for oilseed rape
 22 buds removed (light grey) according the size of buds removed (large or small). Estimated increase in length of
 23 pedicles after bud removal (dark grey bars). Upper-case letters indicate significant differences for the increase in
 24 length of the pedicles, lower case letters indicate significant differences for the length of pedicles measured.

25

26