

Datasets accompanying the paper entitled J. Bishop, et al., Insect pollination reduces yield loss following heat stress in faba bean (*Vicia faba* L.). *Agric. Ecosyst. Environ.* (2015). (<http://dx.doi.org/10.1016/j.agee.2015.12.007>) by Jacob Bishop, School of Agriculture, Policy and Development, University of Reading, Reading RG6 6AR, UK

Filename dataset1.csv

Contains various measurements taken from faba bean (*Vicia faba* L.) plants over three years of experiments conducted at the University of Reading Plant Environment Laboratory (latitude 51 27' N, longitude 00 56' W) in controlled environment chambers and insect pollination cages.

All measurements were conducted once plants had reached senescence. For the experimental rationale and methodology, please see the publication.

<i>Column no</i>	<i>Variable name</i>	<i>Description and units</i>	<i>Notes</i>
1	Year	Growing season of experimentation	<i>For sowing dates, see the manuscript</i>
2	Temp	Daytime temperature of 5-day heat stress treatment	
3	Cabinet	Controlled environment cabinet identity number	
4	Poll	Pollination treatment, "bees"=plants in cage with insect pollinators, "none"=plants in cage without insect pollinators	
5	Cage	Flight cage identity number	<i>Numbers after cage numbers in 2012-13 reflect that the same cage was used across replicate experiments but different insect pollinator colonies were used</i>
6	Replicate	Replicate experiment identity number	
7	Potnumber	Plant identity number	<i>Plant identity numbers are not unique across years, different plants were used in each year</i>
8	Yieldmass	Total mass in grams of all beans produced on each plant	
9	Beannum	Count data of the total number of beans produced on each plant	
10	Podnum	Count data of the total number of pods produced on each plant	
11	Beanperpod*	Mean number of beans per pod for each experimental plant. Derived with pod-scale data which was averaged to generate a per-plant mean	<i>2012-13 and 2013-2014 only</i>
12	Massperbean*	Mean mass per bean in grams for each experimental plant. Derived with pod-scale data which was averaged to generate a per-plant	<i>2012-13 and 2013-2014 only</i>

13	Non-yieldmass	mean. Total mass in grams of stem and empty pod casing from each plant	2013-2014 only
14	%nitrogen	Percentage nitrogen content of beans from each plant	2013-2014 only

Filename dataset2.csv

As dataset1.csv but contains higher resolution samples taken from the main stems of experimental plants in 2012-13 and 2013-14 growing seasons. Pods from each floral node were harvested and processed individually. This data was used to produce figure 2A in the paper and quantify the variable 'first node to set pod'.

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5	Replicate	Replicate experiment identity number	
6	Potnumber	Plant identity number	<i>Plant identity numbers are not unique across years, different plants were used in each year</i>
7	Floralnode	Floral node position on the main stem of each experimental plant, with node 1 being the first (and oldest) node to produce flowers	<i>This was counted following senescence by examining remnant floral trusses to differentiate between earlier vegetative nodes, and later floral nodes</i>
8	Yieldmass	Total mass in grams of all beans produced at each floral node	