

BEAN BEETLES PREFER ORGANIC

RESEARCH QUESTION

Do female bean beetles have an oviposition preference between organic and inorganic black-eyed peas?

INTRODUCTION

The bean beetle (*Callosobruchus maculatus*):

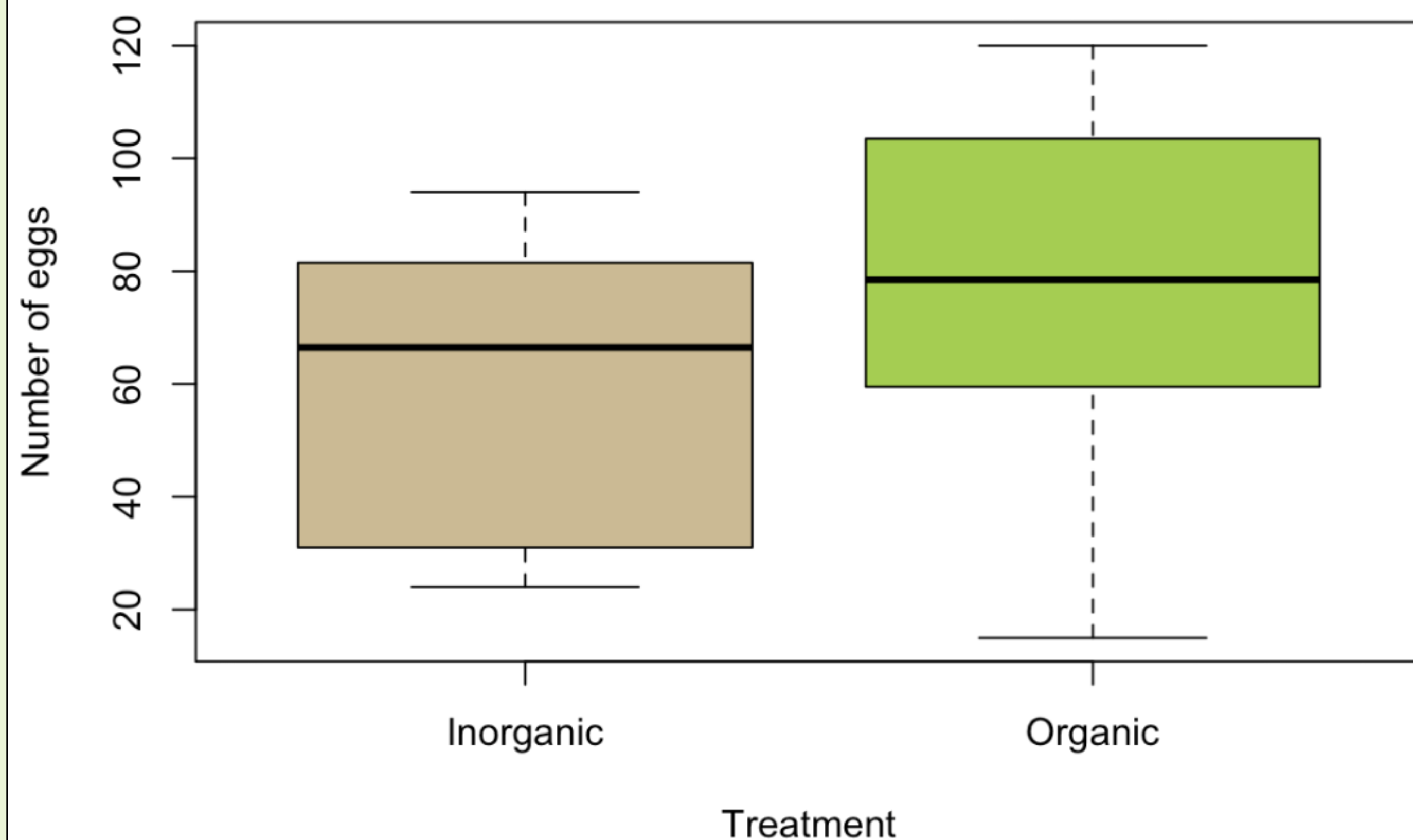
- Agricultural pest that lay eggs on legume seeds in the genus *Vigna*
- Larvae burrow into and feed on the seed until it emerges as an adult



Prediction:

- Assuming inorganic beans are treated with synthetic fertilizer and pesticides:
 - *The females will prefer organic beans over inorganic*

RESULTS



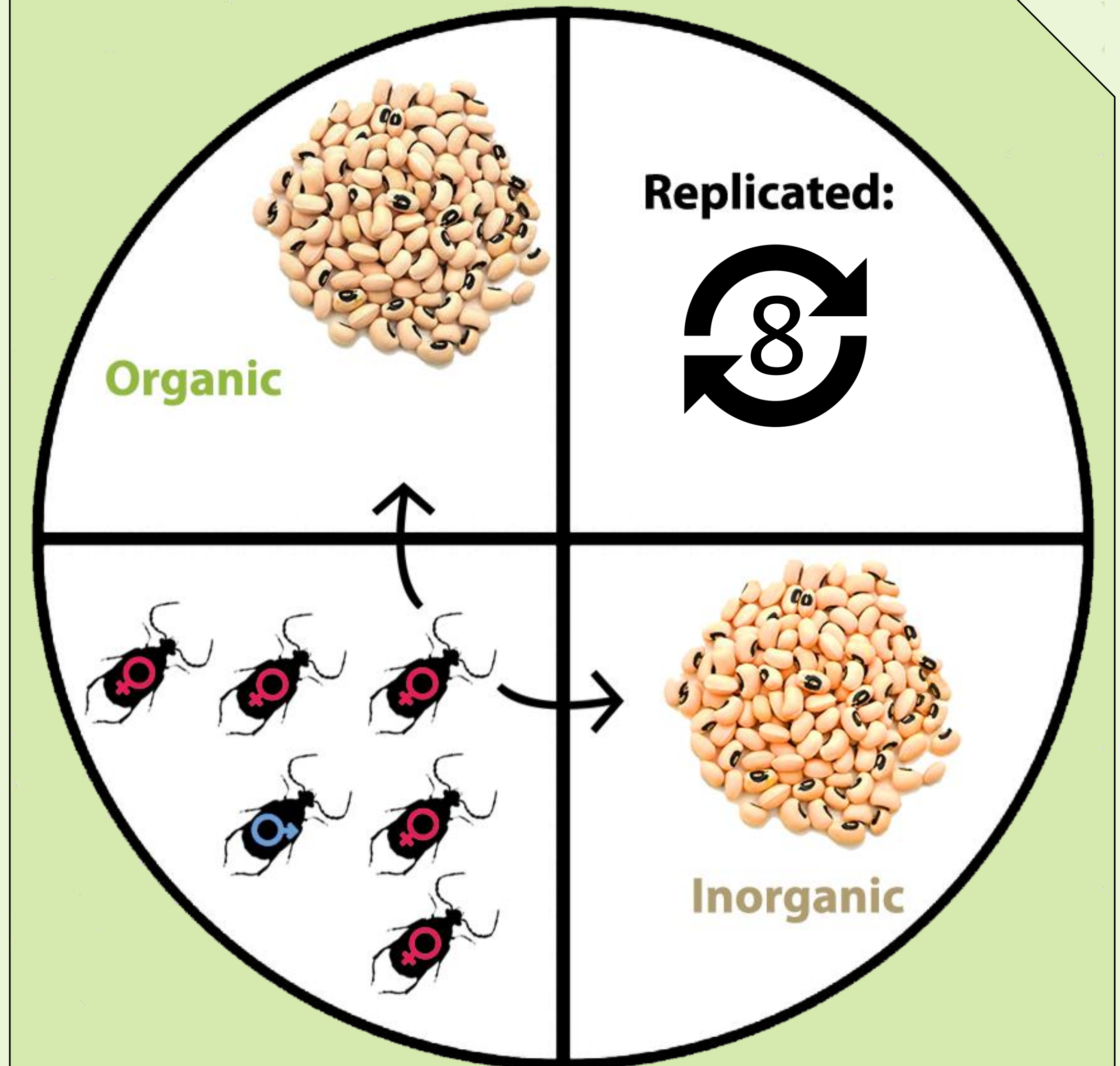
Significantly more eggs on organic beans ($p=0.014$)

SAMPLE SIZES:

Organic beans:
N = 618

Inorganic beans:
N = 476

METHODS



DAY 4: Beetles removed ➡ DAY 14: Eggs counted

CONCLUSION

The female beetles prefer organic beans

Future research:

- Look at emerging adults:
 - Compare offspring survival