BIOLOGICAL CONTROL OF SOYBEAN APHID

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Harmonia axyridis
(Multicolored Asian Lady Beetle)
H. axyridis Larva
FIELD CAGE STUDY

- Dimensions: 6x6x6 ft
- 0, 6, 15, or 24 2\textsuperscript{nd} instar \textit{H. axyridis} larvae added to each cage
Aphid Density at 4 Levels of *H. axyridis* Predation, 2001

Estimated Soybean Aphids per Leaf

- H. axyridis absent
- Low density *H. axyridis*
- Intermediate density *H. axyridis*
- High density *H. axyridis*

*H. axyridis* Introduced
Aphid Density at 4 Levels of *H. axyridis* Predation, 2002

![Graph showing aphid density trends over time with different levels of *H. axyridis* predation. The x-axis represents dates from 7/13 to 8/17, and the y-axis represents soybean aphids per plant. The graph includes lines for *H. axyridis* absent, low density, intermediate density, and high density, with error bars indicating variability. The *H. axyridis* introduced indicated by an arrow on the x-axis.](image-url)
SUMMARY

• *Harmonia* larvae at densities $\frac{1}{7}$ plants may suppress explosive soybean aphid growth when present early

• Predators arriving during rapid aphid growth phase have a less pronounced effect, and may not be capable of preventing economic damage
Important Beneficial Insects in Wisconsin Soybeans
Beneficial or Pest?

12-spotted Lady Beetle

Bean Leaf Beetle-Red Phase
LACEWING LARVA
SOYBEAN APHID
PARASITOIDS
SOYBEAN APHID
PARASITOIDS
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