

# **Wisconsin NatureMapping Asian Beetle Study**

**Developed by:**

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## **Key Questions**

1. What is the distribution of Asian Lady Beetles in a defined (local, regional, or state-wide) area?
2. Where are Asian Lady Beetles more abundant geographically?
3. What habitats do Asian Lady Beetles prefer?
4. Does the “appearance” of Lady Beetles (especially in the fall) progress across the state, or is it simultaneous?
5. How can a population be randomly sampled?
6. What is metadata?
7. Why is metadata important?
8. What is quality assurance/quality (QA/QC) control?
9. Why is QA/QC important when collecting data (especially volunteer-collected data)?
10. What are some of the advantages and disadvantages of various sampling methods (incidental, trapping, quadrats)?
11. What is the advantage of long-term trend data?
12. Can student-collected data be used for management decisions?
13. How can geographic information systems be used to improve data analysis?
14. Why is statistics important in data analysis?
15. Why is a clearly defined hypothesis critical prior to conducting research?
16. Which statistical test is appropriate for accepting, or rejecting, a hypothesis?