



## Pollinators and Me Day 3 Student Activity Bats in Danger

### Are Bats at Risk for Extinction?

Some plants, including mango, banana, and guava, depend on bats to pollinate their flowers. Pollination by bats is known as *chiropterophily*. Without the help of bats, these plants would have trouble producing fruit. *Chiropterologists* are scientists who study bats and keep a close watch on the bat population to make sure no species of bat becomes extinct.

There are 44 different species of bats in the United States. Of these 44 species, 7 (16%) are listed by chiropterologists as imperiled, 26 (59%) are listed as vulnerable, 8 (18%) as apparently secure, and 3 (7%) as secure.

Here are the extinction risk terms and their meanings:

*Critically imperiled* means there is a very high risk of extinction for that species.

*Imperiled* means there is a high risk of extinction for that species.

*Vulnerable* means there is a moderate risk of extinction for that species.

*Apparently secure* means there is a fairly low risk of extinction for that species.

*Secure* means there is a very low risk of extinction for that species.

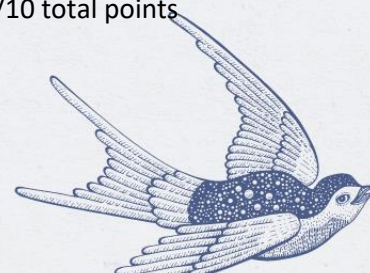
- Use the percentages in the data above to create a pie chart that displays the extinction risk of bat species in the United States. (Remember that the entire “pie” (circle) should equal 100%.)
- Write three sentences that explain what your reader should understand about the extinction risk of bat species in the United States.
- Be sure to use the scoring tool to check your work.

### Scoring Tool

#### Criteria

#### Points

- |    |  |                       |
|----|--|-----------------------|
| 1. | The pie chart has a title.   | _____ 1 point         |
| 2. | Each slice of the pie chart is estimated accurately to reflect the |                       |
| 3. | correct percentage.  | _____ 1 point         |
| 4. | The total percentages of the slices equal 100%.                    | _____ 1 point         |
| 5. | There is a key that explains which extinction risk heading each    |                       |
| 6. | type of color/shading represents.                                  | _____ 1 point         |
| 7. | The sentences show a clear understanding of the data.              | _____ 3 points        |
| 8. | The pie chart is neatly shaded; the division lines are straight,   |                       |
| 9. | and the handwriting is legible.                                    | _____ 3 points        |
|    |  | _____/10 total points |





# Blue Swallow Farm Foundation

## Day 3 Activity - Pollinators and Graphs

### References

Pope, K. (2024). State of the bats in North America. Bat Conservation International.  
<https://www.batcon.org/state-of-the-bats-in-north-america/>

NatureServe Explorer (2024). NatureServe global conservation status rank.  
<https://explorer.natureserve.org/AboutTheData/DataTypes/ConservationStatusCategories#:~:text=Critically%20Imperiled%20%E2%80%94%20At%20very%20high,severe%20threats%2C%20or%20other%20factors.>

