Assignment A: Short Answer Questions

1. Give an example of a demographic rate.
2. What can wildlife biologists learn by studying the demography of wild populations?
3. Researchers catch Black-throated Blue Warblers by playing a recording of another male's song and luring them into a mist-net. Why do you think males will fly to the sound of a different male's song in their breeding territory?
4. List some ecological factors that might limit the size of a population of birds.
5. By studying Black-throated Blue Warblers, scientists hope to learn more about how environmental conditions affect the reproductive success of migratory birds.a) In your own words, define reproductive success.
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b) In years when the population of squirrels and chipmunks was larger, did birds have higher or lower reproductive success? Why?
c) How did increasing the number of caterpillars change the reproductive success of these warblers?
d) Why does population growth slow at higher densities? What is the name for this phenomenon?

6. How might climate change impact Black-throated Blue Warblers in New Hampshire? Will it increase or decrease the amount of high-quality habitat for this species? Why?