**CH. 4: POPULATION ECOLOGY RFC # 1**

* Read the following questions, **then** read from THEME FOCUS (p 91) to Population growth rate (p97), **then** answer the following questions on your own paper in **COMPLETE SENTENCES**
  1. What is the THEME FOCUS of this chapter?
  2. What is the BIG Idea of this chapter?
  3. What is the MAIN Idea of Section 1?
  4. What are the three characteristics used to classify all populations of organisms?
  5. What is population density?
  6. What is dispersion? Name the three main types
  7. Using Figure 1, what type of dispersion would you expect the cattle egrets to have?
  8. What is one of the primary factors in the pattern of dispersion for all organisms?
  9. What is population range?
  10. **Type II Writing**: Describe two reasons why a species might not be able to expand its range.
  11. Using Figure 2 in your book:
      1. Give the population density of the Black Bear, American Bison, and White-tailed Deer.
      2. Describe the dispersion of the three animals listed above.
      3. Are there any Black Bears in Michigan? If so, where?
      4. Which of the three animals is NOT found in Alaska?
      5. Which of the three animals’ range includes the entire state of Texas?
      6. **Think critically**: Suppose that 15,000 black bass, 275 turtles, and 148, 070 minnows live in a pond 100,0000m2. What is the population density of each population?
  12. What are limiting factors? Name the two categories of limiting factors.
  13. What does decreasing/increasing a limiting factor do?
  14. **Type II Writing**: Contrast density-independent and density-dependent factors. Include at least 4 examples of each.
  15. Using Figure 5 in your book:
      1. What was the approximate ratio of moose to wolves in 1965? In 1980? In 1995? In 2000?
      2. What happened to the wolf population between 1980 and 1995? What effect did that have on the moose population?