Section 48-2 Factors That Control Population Growth

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Each of the statements below describes a situation that affects population growth. Some of the statements describe density- dependent factors, whereas others describe density-independent factors. In the blank before each item, place a D if the statement describes a density-dependent factor and an I if the statement describes a density-independent factor.

\_\_\_\_\_1. A severe frost wipes out 50 percent of the citrus crop in southern Florida.

\_\_\_\_\_2. Since snakes prey on frogs, an increase in the frog population causes an increase in the snake population.

\_\_\_\_\_3. Due to severe overcrowding in an Asian village, many children do not survive to reach adulthood.

\_\_\_\_\_4. The eruption of Mt. St. Helens destroys most of the wildlife in the immediate vicinity of the volcano.

\_\_\_\_\_5. Off the coast of Peru, many fish die due to a change in the winds and the movement of ocean currents.

\_\_\_\_\_6. Two animals attempt to occupy the same niche. The more aggressive animal survives, and the other does not.

\_\_\_\_\_7. Because rabbits in Australia have no natural enemies, their population increases, exponentially.

\_\_\_\_\_8. Travelers who venture into a crowded African village become infected with a disease caused by parasites.

\_\_\_\_\_9. Fish on a coral reef stake out their territory and chase away any younger fish that try to live there.

\_\_\_\_\_10. Due to stress, large numbers of female mice miscarry their young and fail to reproduce.