**Limits to Population Growth**

1. Populations growing without limits (ie. have unlimited resources) = exponential growth.
2. Populations with growth kept in check by limiting factors = logistic growth
3. Limiting Factor= a factor that controls the growth of a population.
4. Limiting factors are necessary to control population growth.

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| **Factors that ARE population density dependent.** | **Factors that ARE NOT population density dependent** |
| * Competion (space, food, mates, water shelter) * Predation ( predators controlling prey populations) * Herbivory (Herbivores controlling plant populations) * Disease (easily transmitted when individuals are densely packed) * Parasitism * Stress from overcrowding | * Unusual Weather ( drought, severe heat, excessive snow, excessive cold, excessive rain) * Natural Disaster ( wildfires, volcano eruption, flood, tsunami, earthquake) |