**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.

|  |  |
| --- | --- |
| **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)
 |