



Worksheets on Population Dynamics

Population Growth and Population Dynamics

Ecology

Bacteria in Milk – A Model for Population Growth

Lactic acid bacteria are responsible for milk spoilage. When milk is processed for sale in supermarkets, different heat treatments are used to extend its shelf life. For example:

- UHTing: high temperature (135°C) milk is heated for about 2-3 s for a few seconds.
- Pasteurized milk is heated to about 72 °C for up to 30 seconds.

The goal of these processes is to kill lactic acid bacteria naturally present in raw milk. These organisms naturally die off over time. Lactobacillus acidophilus grows well in milk because of the lactic acid produced. The milk becomes sour and inedible. It only a few bacteria survive after heat treatment, the milk stays fresh for a few days in the refrigerator (fresh milk).



Figure 4. Scanning electron micrograph of a Lactobacillus species.

Parameters of Population Growth

The **birth rate** and **death rate** describe the population, described by parameters such as the number of individuals or population size (N), the density of the population, the birth rate (λ), the death rate (μ) and the growth rate (r).

1. Define the parameters of population growth in the table below.

Parameter	Definition
Population size (N)	
Birth rate (λ)	
Death rate (μ)	
Growth rate (r)	

Exponential and Logistic Growth of a Population

In an unlimited environment (like a milk bottle), the birth rate usually stays higher than the death rate, resulting in exponential growth. The population increases from one level, and finally almost all available space will be occupied (100% of maximum population) over the environmental carrying capacity. This pattern is known as logistic growth.

2. Sketch the theoretical growth of a lactic acid bacteria population in the diagram below. Label and name the phases of population development.
3. Draw the graphs for exponential and logistic population growth in the diagrams below.
4. Add the mathematical formulas describing the change in population size ($N(t)$) over time (t).



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Density-Dependent and Density-Independent Factors

The logistic growth of a population is limited by factors that depend on the population's own density (**density-dependent factors**). However, growth can also be limited by factors that are independent of population density (**density-independent factors**).

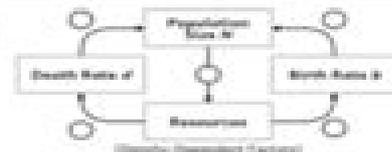
4. In the table below, list density-dependent and density-independent factors that can limit population growth. For each category, give just examples of factors that could influence the growth of a lactic acid bacteria population in a bottle of milk.

	Density-Dependent Factors	Density-Independent Factors
General examples		
Examples for lactic acid bacteria		

Population Regulation through Negative Feedback

Population size is regulated through negative feedback. As the population grows, the resources available per individual decrease, slowing further growth.

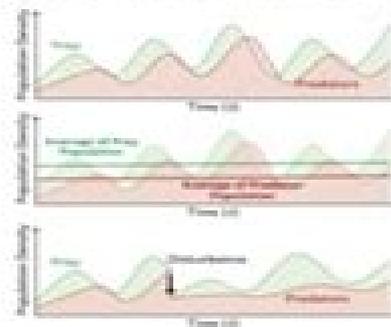
5. Complete the feedback loop for population size regulation by filling in or replacing the empty circles in the diagram.



Predator-Prey Dynamics: The Lotka-Volterra Rules

The population sizes of predators and prey are interdependent. In the 1920s, Lotka and Volterra independently described these relationships mathematically – known today as the Lotka-Volterra Rules.

6. Describe the three Lotka-Volterra Rules. Write short notes next to each of the predator-prey graphs.



1. Lotka-Volterra Rule: _____
2. Lotka-Volterra Rule: _____
3. Lotka-Volterra Rule: _____

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