

Student Exploration: Rabbit Population by Season

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Define Each Vocabulary Word:

carrying capacity-a species' average population size in a particular habitat

density-dependent limiting factor-any force that affects the size of a population of living things in response to the density of the population

density-independent limiting factor-any force that affects the size of a population of living things regardless of the density of the population

limiting factor- anything that constrains a population's size and slows or stops it from growing

population-a group of individuals of the same species living and interbreeding within a given area

population density- the number of individuals per unit geographic area

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Suppose you had a pet rabbit. What would the rabbit need to stay alive and healthy?

Food, water, and shelter

2. A female rabbit can give birth to over 40 baby rabbits a year. Suppose all of her offspring survived and reproduced, all of their offspring survived and reproduced, and so on. If that happened, in only eight years the mass of rabbits would exceed the mass of Earth!

So, why aren't we overrun with rabbits? What keeps the rabbit population in check?

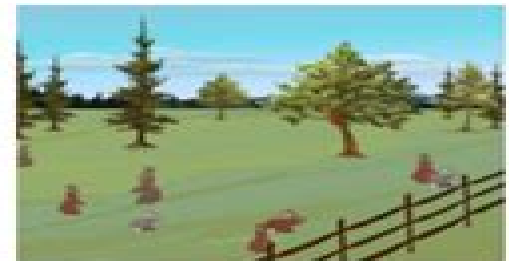
We aren't overrun because rabbits are at the bottom of the food chain, therefore they are prey for larger predators like eagles, hawks, and owls.

Gizmo Warm-up

A **population** is a group of individuals of the same species that live in the same area. The size of a population is determined by many factors. In the *Rabbit Population by Season* Gizmo, you will see how different factors influence how a rabbit population grows and changes.

1. Select the BAR CHART tab. What is the size of the initial rabbit population?

40



2. Select the TABLE tab. Click **Play** (), and allow the simulation to run for one year.

A. In which season did the rabbit population increase the most?

Spring

B. In which season did the rabbit population increase the least?

Rabbit Population By Season Gizmo

Jessica J Manson

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Rabbit Population By Season Gizmo:

Problems in a Rabbit Population Study Lester Lee Eberhardt, Tony J. Peterle, Raymond Schofield, 1963 *Use of Tagged-untagged Ratios in Estimating Rabbit Population* Aelred D. Geis, 1952 **Cottontail Rabbit Population Data**, 1992

The Private Life of the Rabbit Ronald Mathias Lockley, 1974 An Evaluation of Strip Census Methods for Cottontail Rabbit Population in Southern Michigan Rainer Hans Brocke, 1957 **The Cottontail Rabbit** Don Ross, 1972 **A Study of Cottontail Rabbit Population Dynamics in Southeastern Virginia** Robert Allen Bellig, 1962 A Cottontail Rabbit Population and Mortality Study with Emphasis on the Effect of Woodchuck Den Closure Eugene Charles Waldbauer, *A Survey of a Small Rabbit Population in a Semi-burnt Environment* Mary Slater, 1988* **Studies of the Rabbit Population on Macquarie Island** Irynej Joseph Skira, 1979 **Rabbit Population Study** Lester Lee Eberhardt, Raymond D. Schofield, Tony J. Peterle, 1963 **Forage Interactions and Black-tailed Jack Rabbit Population Dynamics** W. R. Clark, 1982

The Enigmatic Realm of **Rabbit Population By Season Gizmo**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Rabbit Population By Season Gizmo** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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