

LAB _____, NATURAL CONTROLS OF POPULATIONS

The size of populations in a community are regulated in many ways. Some of the controls acting on populations are:

- the amount of food and water available to feed the population
- the amount of nesting sites available to support raising young
- the size of the predator population
- the amount of disease and parasites infecting the population

Because of these limitations a certain area can only support a certain size population of each type of organism. The population size of each creature that the environment can support is called the **carrying capacity** of that community. This limit represents how many of a certain species that can survive in that area.

In this lab we will study two real life examples of populations, their natural controls, and the carrying capacity of their community.

The Kaibab Deer

In the early 1900s, the Kaibab plateau, north of the Grand Canyon in Arizona, supported a population of about 4000 deer on over 700,000 acres. Predators, such as coyotes, wolves, and pumas, helped to keep the deer population in check. It was estimated at the time that the plateau had a carrying capacity of about 30,000 deer, so that there seemed to be plenty of food for the population that existed.

Ranchers who moved into the area lost many sheep and cattle to the predators. Then on November 28th, 1906, President Theodore Roosevelt created the Grand Canyon National Game Preserve to protect the "finest deer herd in America." In an effort to save livestock and increase the deer population for tourists, the Forest Service tried to exterminate the predators of the deer. Between 1907 and 1923, 815 mountain lions, 30 wolves, 7388 coyotes and more than 500 bobcats were killed.

With the successful removal of many of the predators, the deer herd increased dramatically. But signs that the deer population was out of control began to appear as early as 1920 and the range (the deer habitat) was beginning to deteriorate rapidly. The food supply was being overgrazed by the high population of deer. Trees and grass were being damaged to the point they couldn't recover for next year's growing season. Soon there wasn't enough food to feed the growing population. By 1923, the deer were reported to be on the verge of starvation and the range conditions were described as "deplorable."

The Kaibab Deer Investigating Committee recommended that the number of deer be cut in half as quickly as possible. Hunting was allowed, and during the fall of 1924, 875 deer were killed by hunters. However, these deer represented only one-tenth the number of deer that had been born that spring. Over the next two winters, it is estimated that 60,000 deer starved to death.

Today, the Arizona Game Commission carefully manages the Kaibab area. Hunting permits are issued to keep the deer in balance with their range. Predators were re-introduced and are now protected to help keep herds in balance with food supplies. Tragic winter losses are now reduced by keeping the number of deer near the carrying capacity of the range.

Lab Natural Controls Of Populations Answers

KJ Lindholm-Leary



Lab Natural Controls Of Populations Answers:

Lab Natural Controls Of Populations Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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