

# Controlling a rabbit plaque

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## 1 Introduction

In 1859 the First Fleet of settlers arrived in Australia, with them Thomas Austin. Thomas Austin took 13 European rabbits with him on his journey, so that once in Australia he could set them free so that he could hunt them for food. What Thomas Austin did not know was that these European rabbits did not have any natural predators or competition in Australia. So by 1920 the small population of 13 rabbits had turned into a rabbit plague, in 1920 there were an estimated 10 billion rabbits in Australia. In this paper we will attempt to model the rabbit plague of Australia by exploring the question "What is the most effective way to control a rabbit plague comparing Hunting, Introducing a predator and Introducing a Competitor

## 2 Base case

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