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The Allee effect is a phenomenon in biology characterized by a correlation between population size or density and the mean individual fitness (often measured as per capita population growth rate) of a population or species. A metapopulation consists of a group of spatially separated populations of the same species which interact at some level. The term metapopulation was coined by Richard Levins in 1969 to describe a model of population dynamics of insect pests in agricultural fields, but the idea has been most broadly applied to species in naturally or ...1 Introduction. Seasonal diseases in humans are inherent in the organic growth of man from infancy to old age. Some examples of such diseases are measles, diphtheria, chickenpox, cholera, rotavirus, respiratory syncytial virus (RSV), vector-borne diseases including malaria and even sexually transmitted gonorrhoea 1. Suggested Citation: "6 Population Models and Evaluation of Models." National Research Council. 2013. Using Science to Improve the BLM Wild Horse and Burro Program: A Way Forward.