within the lake, followed by equally rapid declines. abiotic fact

POPULATION DISPERSION

15.4 POPULATION DISPERSION

Populations have a tendency to disperse, or spread out in all directions, until some bands are a tendency to disperse or spread out in all directions, until some bands are emigration—one-way outwent into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals into the population dispersion is the movement of individuals in the population dispersion is the movement of individuals in the population dispersion is the movement of individuals in the population dispersion is the movement of individuals in the population dispersion is the movement of individuals in the population dispersion is the movement of individuals in the population dispersion is the movement of the population dispersion dis Populations have a tendency to disperse, or spical compound of individuals into the movement of individuals in the movement Populations have a tendency to dispersion is the Population have a tendency to dispersion is reached. Accordingly, population dispersion emigration—one-way outward into or of the population area. It takes three forms: emigration—periodic departure and migration—one-way outward movement; and migration—periodic departure and of the population area. is reached. Accordingly, population area. It takes three forms: emgration—periodic departure and migration—periodic departure and immigration—one-way inward movement; and migration population, growth for immigration—one-way invariant and mortality in shaping population, growth for immigration of plants and of the population area. It is a significant role in the distribution of plants and animals and animals area. It is population area. It is Dispersion supplements natality and mortality in Dispersion of plants and animals and animals and animals even density, and also it plays a significant role in the distribution of plants and animals even density, and also it plays a significant role in the distribution of plants and animals even density, and also it plays a significant role in the distribution of plants and animals even density, and also it plays a significant role in the distribution of plants and animals even density, and also it plays a significant role in the distribution of plants and animals even density. Dispersion supplementate a significant role in the distribution. Most types of population and animals even density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. Most types of population density, and also it plays a significant role in the distribution. the areas previously unoccupied by the members of as for obtaining food, avoiding predators of action of wind and water, environmental factors as I dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons such as dispersion occur due to a number of reasons as secretion of some hormone. preventing overcrowding, result of action of white and preventing overcrowding overcrowding, result of action of white and preventing overcrowding over interchange of genetic material between populations.

Emigration

Emigration under natural conditions occurs when there is overcrowding in the migratory local Arctic fox, gray squirrel and occurs Emigration under natural conditions occurs when an emigration under natural conditions occurs when a condition occurs wh other species. This is generally regarded as an adaptive behaviour that regulates the population of the habitat. Further, it leads to other species. This is generally regarded as an adaption of the habitat. Further, it leads to occupation on a particular site and prevents over-exploitation of the habitat. Further, it leads to occupation

elsewhere. By dispersing into new localities, there is opportunity gained for areas with other populations leading to more genetic heterozygosity and adaptability. of course, population pressure that is responsible in large part for the dispersal of of course prossure that is responsible in large part for the dispersal of and extension of ranges into new areas. Under normal conditions adult animals, and extended the higher vertebrates, are well established on their territories and the youngs and to seek homes elsewhere. Among insects, there is a relative among the dispersal of the dispersal of the dispersal of the seek homes elsewhere. Among insects, there is a relation between emigration the extent to which they show activity. and the second to seek and the youngs insects, there is a relation between emigration dely in the extent to which they show activity even within same calculated and adults, differ second of excessive size, spread of inc. pherited belief to which they show activity even within same colony. In the development the more active individuals. The out in the excessive size, spread of infestations of the insect into new regions is populations of the insect into new regions is individuals comes to predominate in the population (Work). the insect into new regions is individuals comes to predominate in the population (Wellington, 1966). Continuous degish individuals are rare and when they occur, result in depopulation (Wellington, 1966). Continuous and in such circumstances by enhancing the reproductive of its populations is digrations are the circumstances by enhancing the reproductive ability as well as by decreased manhant among the populations.

leads to a rise in population level, causing an overpopulation which may lead pan increase beyond the carrying capacity. These immigrations result in increased mortality the immigrants or decreased reproductive capacity of the individuals. Both emigration among the individuals. Both emigration are initiated by weather and other abiotic and biotic environmental factors.

Migration

Migration is a peculiar kind of population dispersion which involves the mass movement of Migration. This can occur only in mobile organisms and best developed in insects such desert locust, Schistocerca gregaria, migratory locust, Locusta migratoria, butterfly, Danaus plexippus and in the migratory dragonflies, Libellula quadrimaculata and Pantala flavescens; fishes as salmons and eels, in birds and in certain mammals. Most two-way migratory movements are rhythmic processes of population and regular periodicity is a common feature. Very often, environmental periodicities control these migratory movements, as for example day and night rhythms, lunar periods, tides and changing seasons. The monarch butterflies, Danaus plexippus, travel very long distances and their migrations are found to be pathed every year through their same conventional routes, and their migratory movements are initiated by the oncoming winter and the return trip being influenced by spring.

In most cases, migration of population may occur for food, shelter, or reproduction. Better utilisation of uninhabited or hitherto untouched habitats and their resources are the greatest benefits derived from the migratory movements. However, during migration of population, mortality of numerous individuals may occur due to different ecological hazards such as temperature fluctuations, scarcity of food, predation, etc. Anyhow, migration has certain benefits for populations—as it enables wider dispersion of populations; it avoids intraspecific competition for food, shelter or any other means.