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Permanent Isolation

The factors which limit random mating & cause reduction of fertility in the absence of Geographical Isolation comprise, the permanent Isolation. The two categories of Isolating mechanism may involve:

- Indirect Methods

- Direct Methods

Which can be further be: Indirect Methods.

(i) Ecological Isolation: It is due to ecological barriers because under ordinary conditions different areas would have different climatic, biotic, & Edaphic factors. Due to these factors the potential organism seldom or never come together at least during the reproductive age or season. One example is of distributions of Snails of Achatinellidae family which live on trees & can not travel any distance on land without shade or moisture. The other example is North American water snake, Natrix, upon whom the two races of which live in fresh water & salt water and are kept separate by their habitat preferences.

(ii) Seasonal Isolation: - Sometimes the breeding season of two groups of animals or plants do not coincide and thus isolation is done. The example is of American Toad, Bufo, & Fowler's Toad. Both have similar distribution but in nature they remain distinct because, B. americanus breeds early in the season & Bufo fowleri breeds late. Seasonal Isolation occurs abundantly in insects, particularly in Cicada.