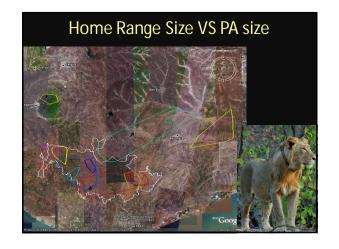
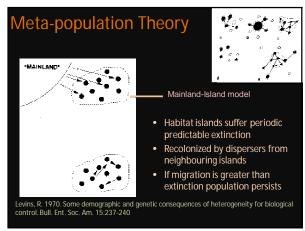


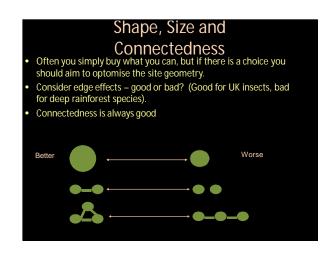
Island biogeography theory has had serious ramifications for conservation. One of the most significant anthropogenic influences on natural habitats has been the fragmentation of habitats into smaller and smaller "islands". These fragmented habitats often show relaxation effects like some islands.





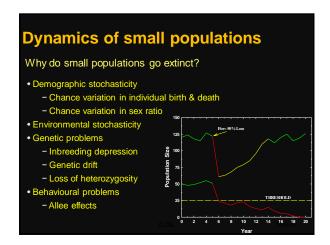
## Habitat Fragmentation VS Patchy Habitat

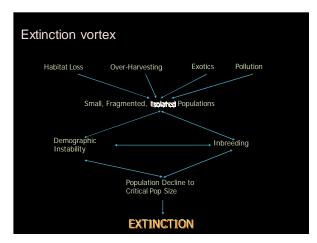
- There are differences between naturally patchy landscapes and fragmented ones
- Furthermore, the greater the differences, the greater the threat to species persistence in them
- Persistence in fragmented habitats is further compromised b barriers of infrastructure such as roads, urban sprawl, etc.

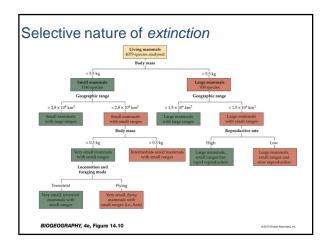






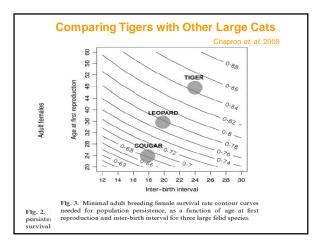


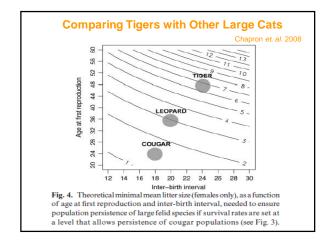












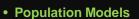


## **Program VORTEX**

- Voltex 9.93
- Individual Animal Based Population Simulation Package
- Sophisticated tool for Population Habitat Viability Analysis
   Assists Conservation Management
- Assists Conservation Management, Reintroductions, Harvest, Risk Assessment, etc.

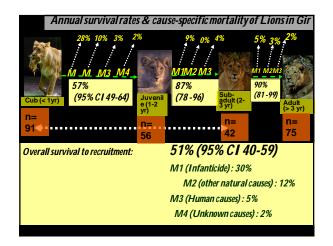
## Tools and Information Needed for Management of Endangered Species Populations

- Spatial Extent and Population Size
- Demographic Parameters
- Ecology (Spatial Dynamics)





 Landscape Characteristics / Land Use Matrix / Barriers to movement



Show Simulations in Vortex

