oordination of Reptile and Amphibian Conservation with Transportation Projects Habitat Loss, Vermont Examples

1997-2007, 7.5 square miles per year 2007-2015, 15 square miles of forest per year



Habitat Fragmentation



Reptiles and amphibians are the vertebrate groups most sensitive to road mortality.

Populations vrs. Individuals

Limited range

10.0

Annual movement



Annual movement



Movement within contiguous habitat

Recolonization movements



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Genetic Exchange

Small Size & Slow Speed

Long lives and low productivity



Road surfaces and edges can attract some species





Cause the direct mortality of herptiles using and crossing roads and hence deplete or eliminate populations in the vicinity of their roads and their associated developments









Transportation Related Goals Locate and map significant crossing areas Significant?

- Where rare, threatened, or endangered species are crossing.
- Where concentrations of common species are crossing.
- Where a wide diversity of species are crossing.
- Where road mortality is in danger of eliminating a population.

