

## Adaptive capacity

"the potential, capability, or ability of a system to adjust to climate change, to moderate potential damages, to take advantage of opportunities, or to cope with the consequences" (IPCC 2007)

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## Adaptive capacity

- Genetic variability
- Phenotypic plasticity
- Behavioral plasticity
- Dispersal abilities
- Landscape permeability



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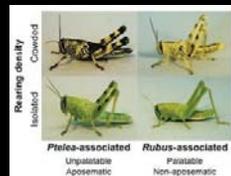
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## Genetic Variability



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Concord, Mass.

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## Plasticity



*Melilotus officinalis*



*Cornus rugosa*

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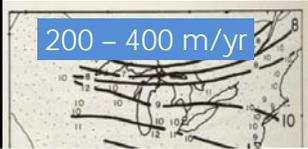
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Dispersal

200 – 400 m/yr

Audubon 2009



Black Turnstone  
Moved 178 miles North



Green-winged Teal  
Moved 157 miles North



Pine Siskin  
Moved 288 miles North

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Adaptive Capacity: Communities



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Intrinsic vs. extrinsic



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Extrinsic adaptive capacity:  
management potential



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Activity 3. Adaptive capacity

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