

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)

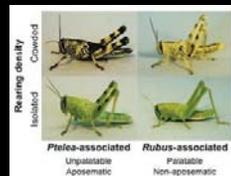
Adaptive capacity

Genetic variability



Adaptive capacity

Phenotypic plasticity



Adaptive capacity

Behavioral plasticity



Adaptive capacity

Dispersal abilities



Adaptive capacity

Landscape permeability



Genetic Variability





Concord, Mass.

Plasticity



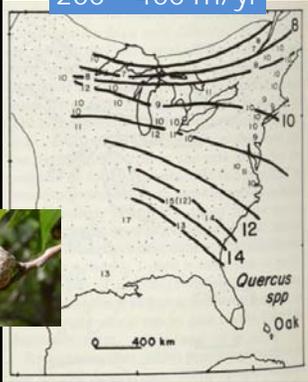
Melilotus officinalis



Cornus rugosa

200 – 400 m/yr

Dispersal



Audubon 2009

Davis 1983

Quercus spp
Oak

400 km

Dispersal

Audubon 2009



Black Turnstone
Moved 178 miles North

Green-winged Teal
Moved 157 miles North

Pine Siskin
Moved 288 miles North

Adaptive Capacity: Communities



Intrinsic vs. extrinsic



Extrinsic adaptive capacity:
management potential



Activity 3. Adaptive capacity
