

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)

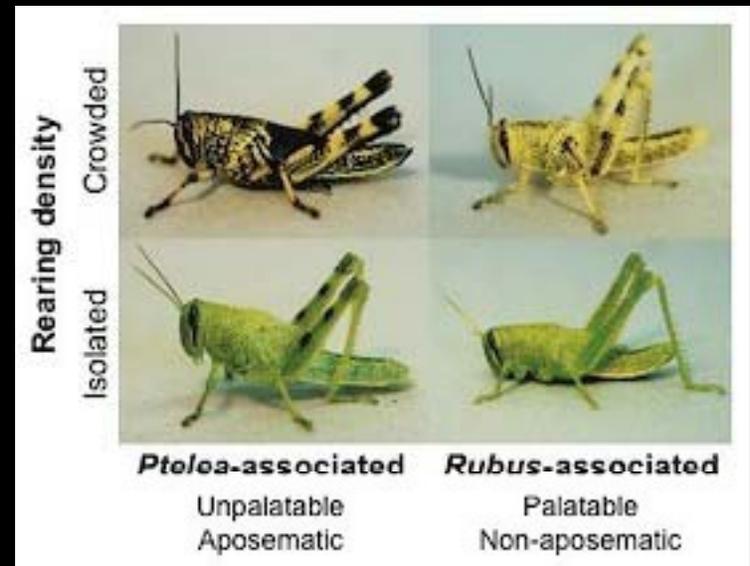
Adaptive capacity

Genetic variability



Adaptive capacity

Phenotypic plasticity



Adaptive capacity

Behavioral plasticity



Adaptive capacity



Dispersal abilities



Adaptive capacity



Landscape permeability

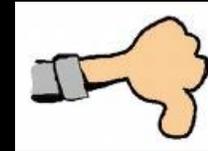
Genetic Variability





Concord, Mass.

Plasticity



Melilotus officinalis

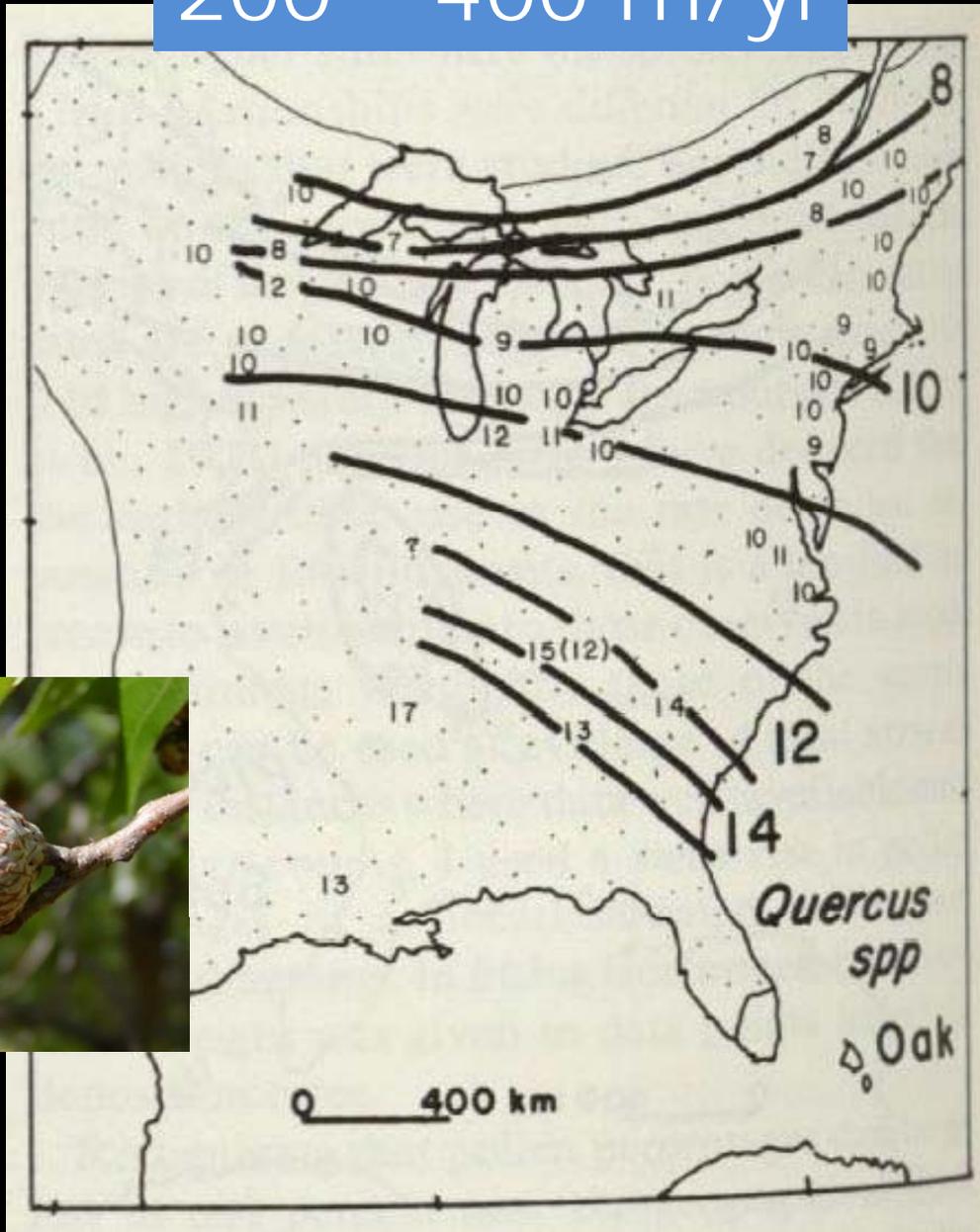


Cornus rugosa

©2002, Gary Fewless

Dispersal

200 – 400 m/yr



Audubon 2009

Davis 1983

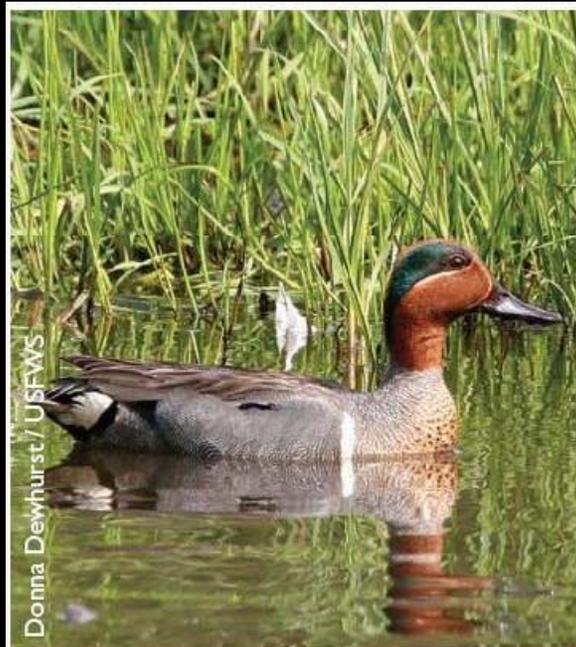
Dispersal

Audubon 2009



Tim Bowman / USFWS

Black Turnstone
Moved 178 miles North



Donna Dewhurst / USFWS

Green-winged Teal
Moved 157 miles North



Glenn Tapke

Pine Siskin
Moved 288 miles North

Adaptive Capacity: Communities



Intrinsic vs. extrinsic



Extrinsic adaptive capacity: management potential



Activity 3. Adaptive capacity