

# Wildlife Habitat and Solar Energy

W MA Solar Forum: UMass Clean Energy Extension  
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© Tony D'Amato

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The Nature Conservancy in Massachusetts





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Quabbin Reservoir

DRINKING WATER



CARBON SEQUESTRATION



HEALTH AND WELL-BEING



WILDLIFE HABITAT



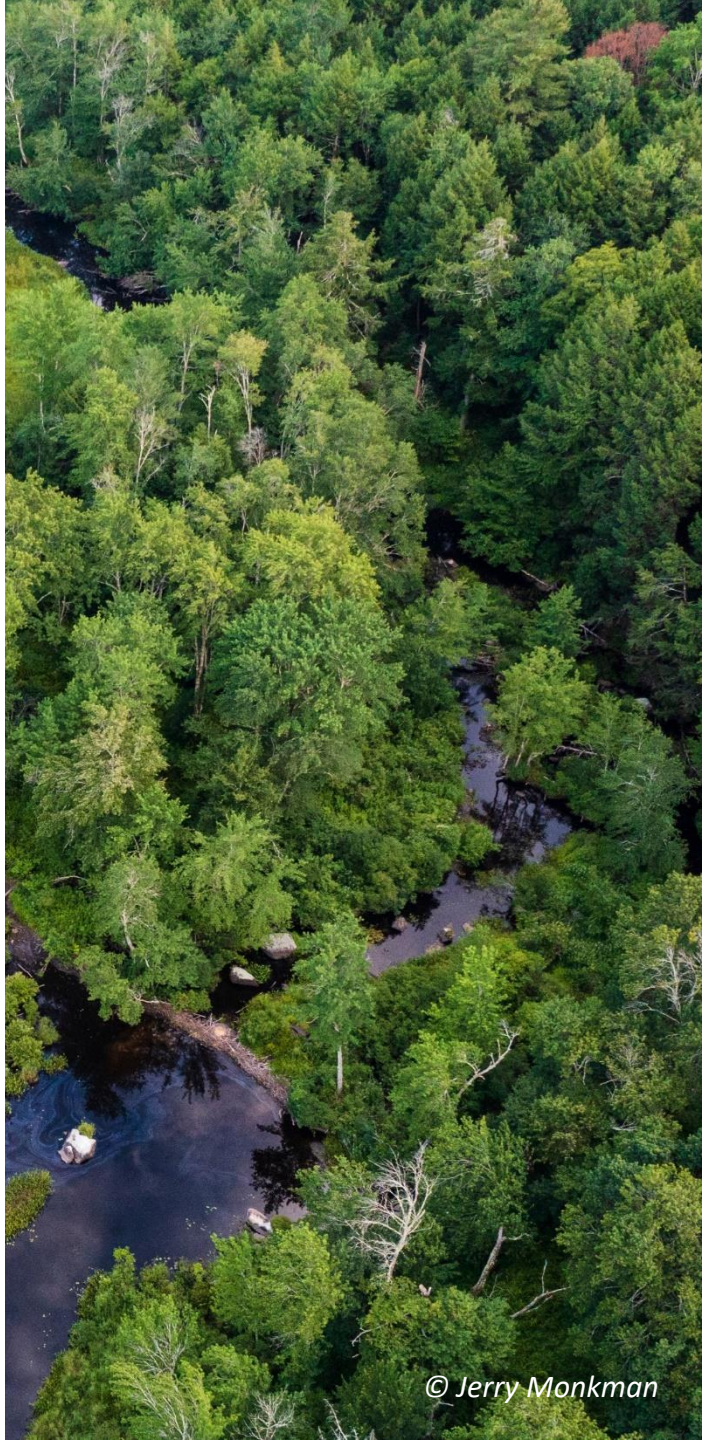
FLOOD MITIGATION



# Western MA Forests

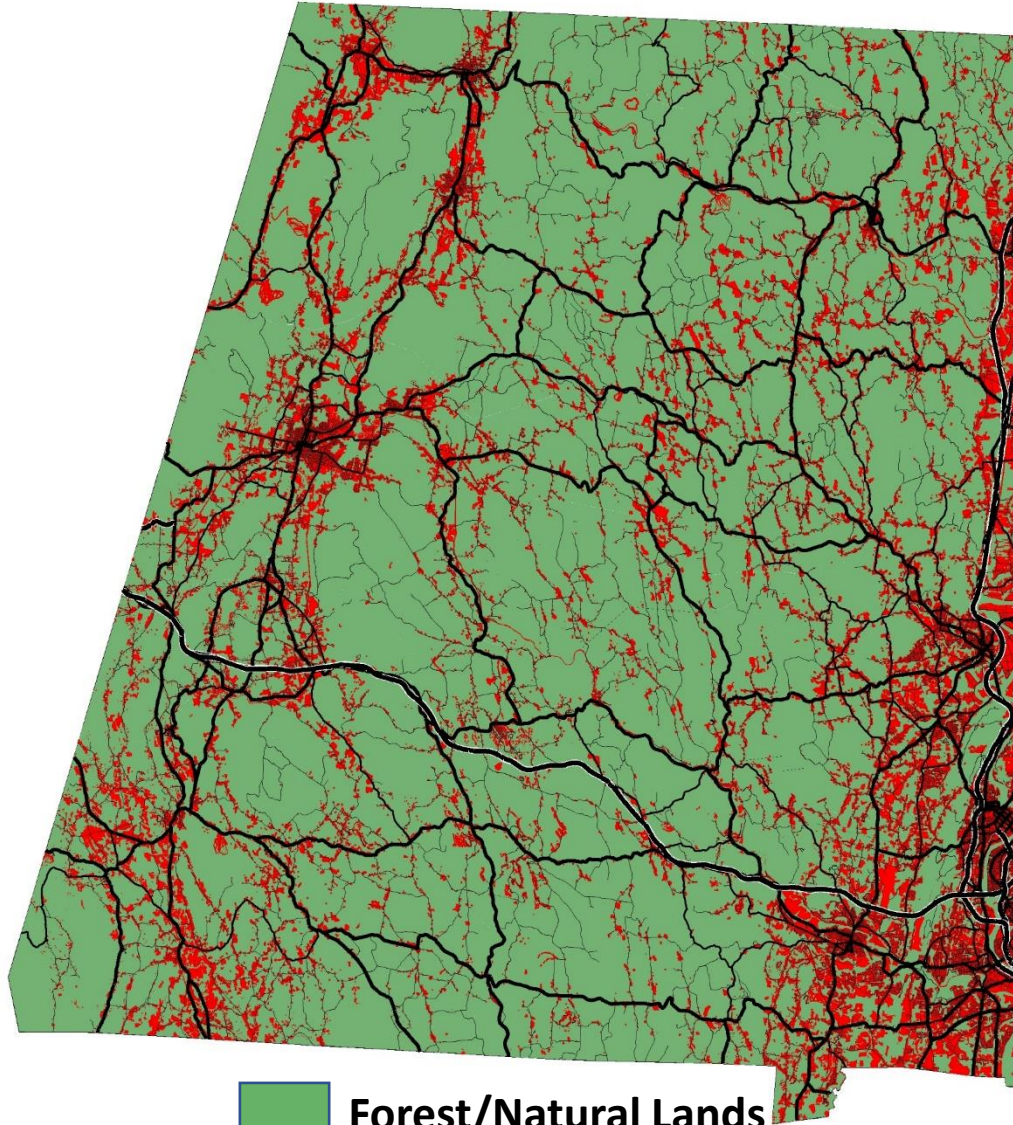


 Forest/Natural Lands





# Western MA Forests



 Forest/Natural Lands

 Development

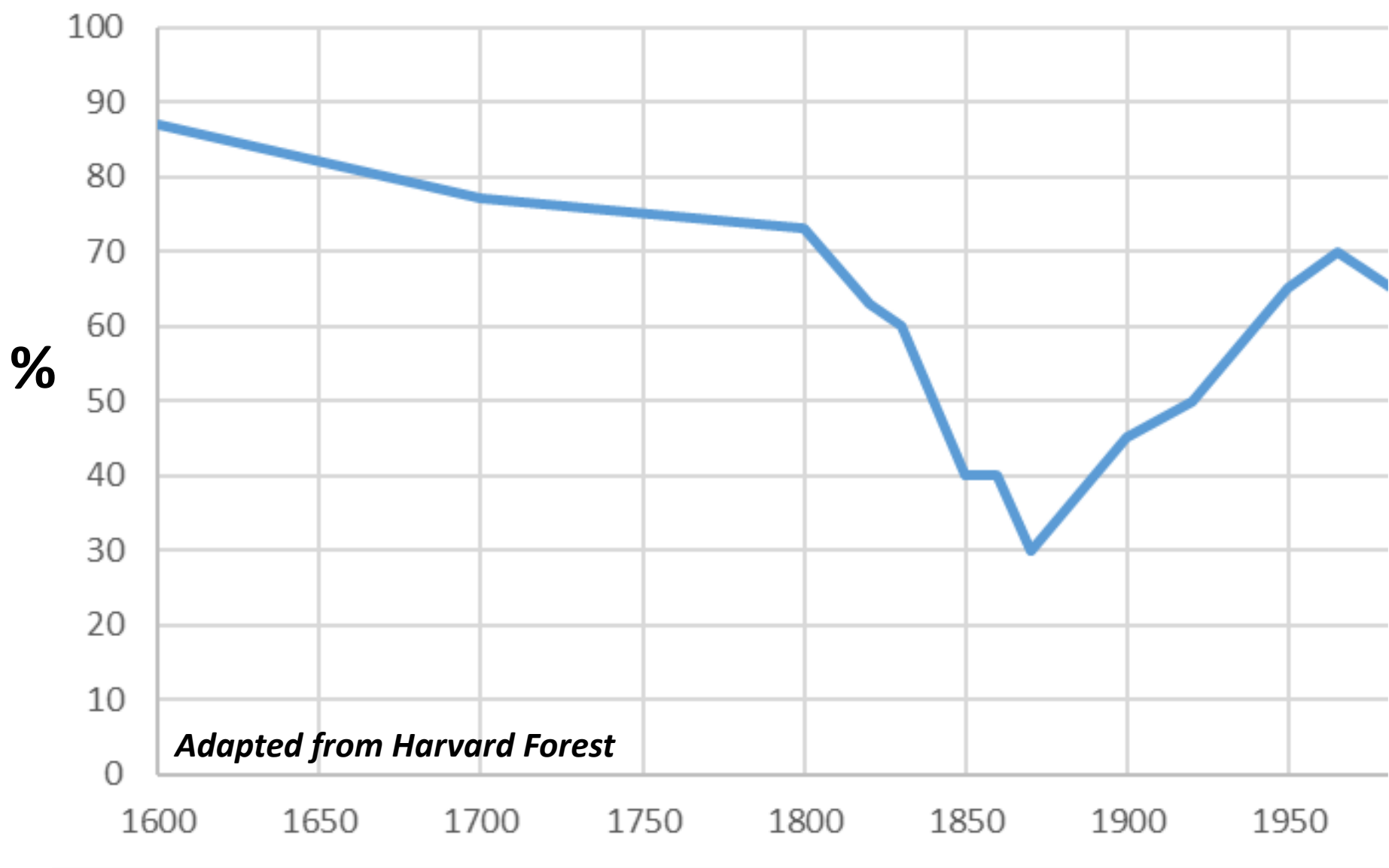
 Roads

0 2.5 5 Miles





# Percent Forest Cover in MA, 1600 - 2000



*Adapted from Harvard Forest*

**Year**

# Abundance Crisis



## Native Species

Biomass down 20%/1900



## Amphibians

30% now T&E



## Butterflies

Abundance down 35%/40yr



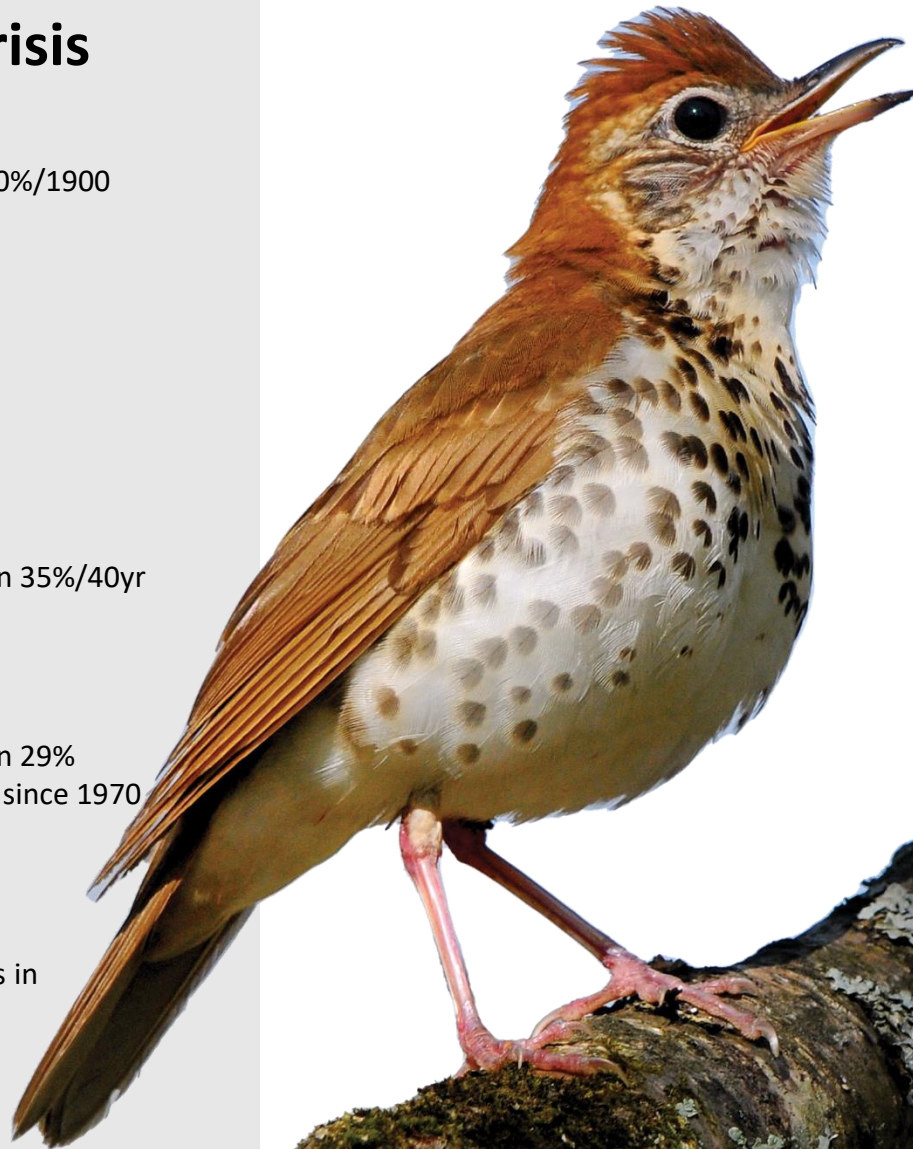
## NA Birds

Abundance down 29%  
or 3 Billion birds since 1970



## NA Mammals

Bats and weasels in  
dramatic decline

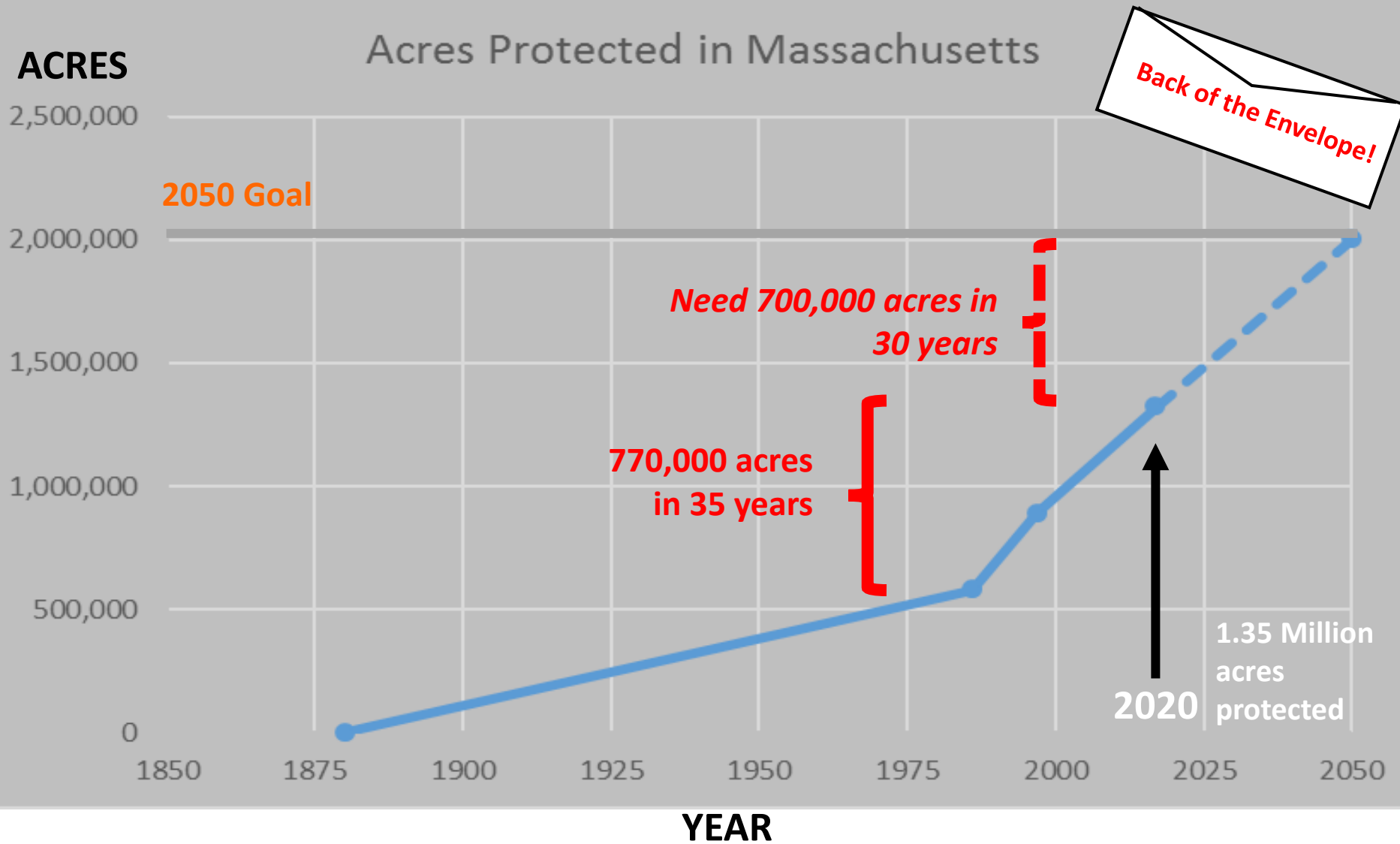


Over 1/3 of US  
plant and animal  
species are at risk  
of extinction  
(Nature Serve)

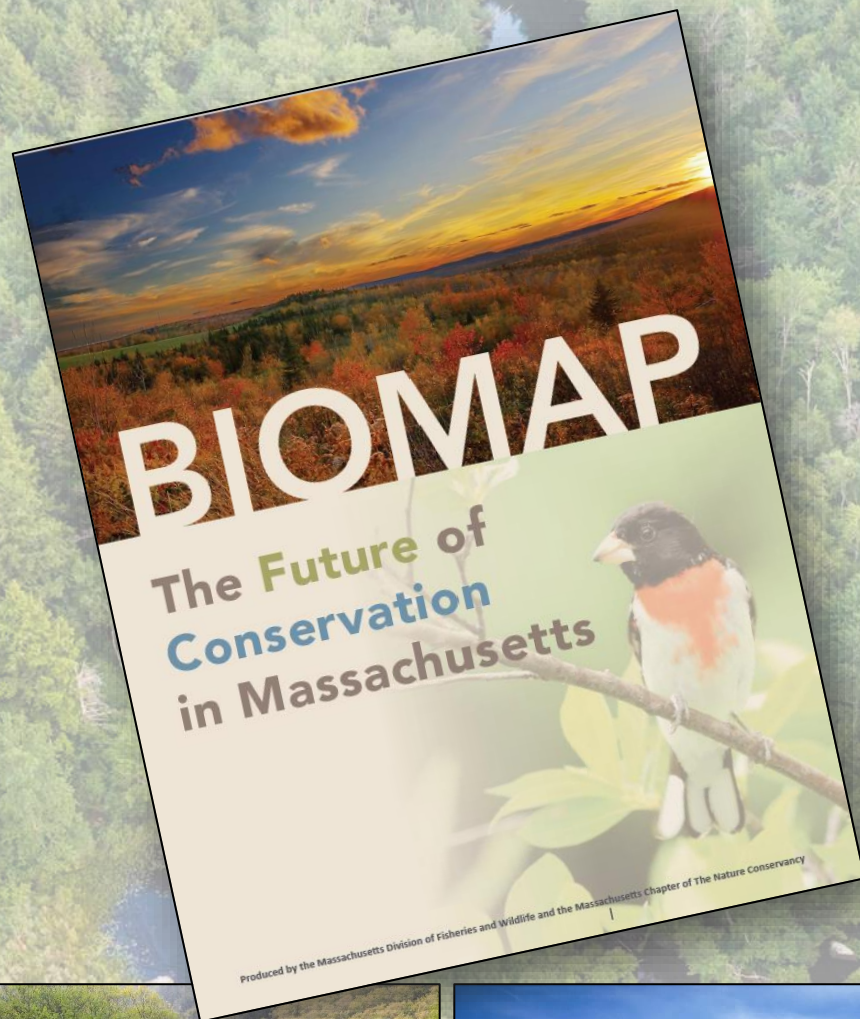


# MA Clean Energy & Climate Plan Goal: 40% of MA (~2 Million Acres total) Protected by 2050

Data from Mass Audubon Losing Ground and MA EOEEA







**Rare Species**



**Rivers and Streams**

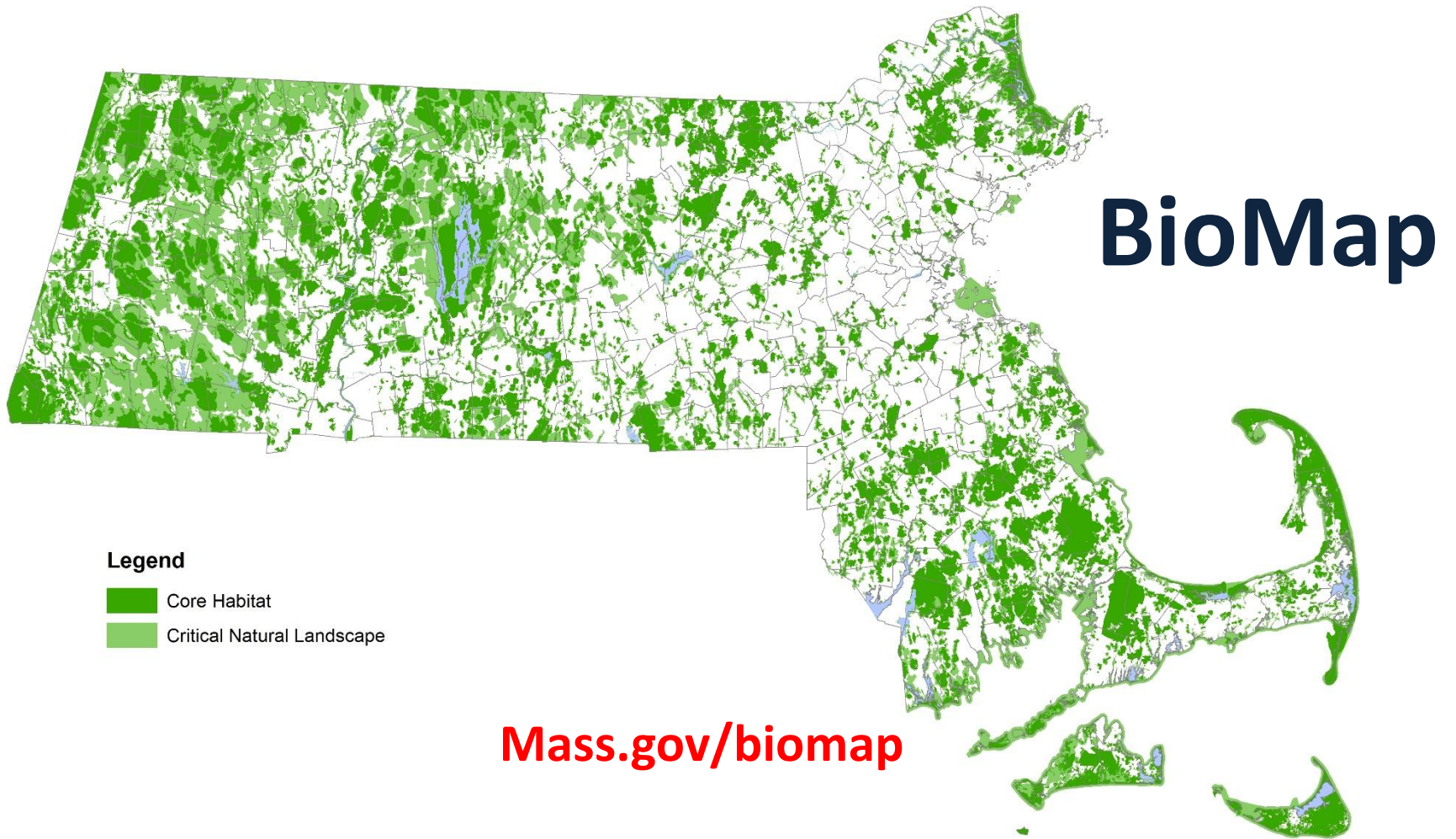


**Resilient Landscapes**

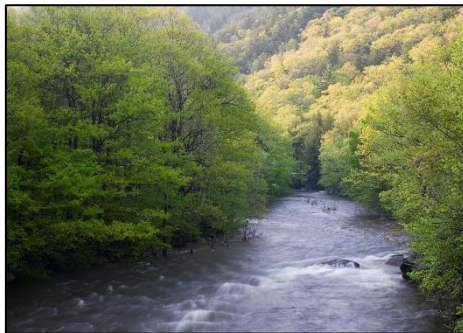


**Intact Forests**





**Rare Species**



**Rivers and Streams**



**Resilient Landscapes**



**Intact Forests**





# Win-Win Solutions.







**Thank You**