



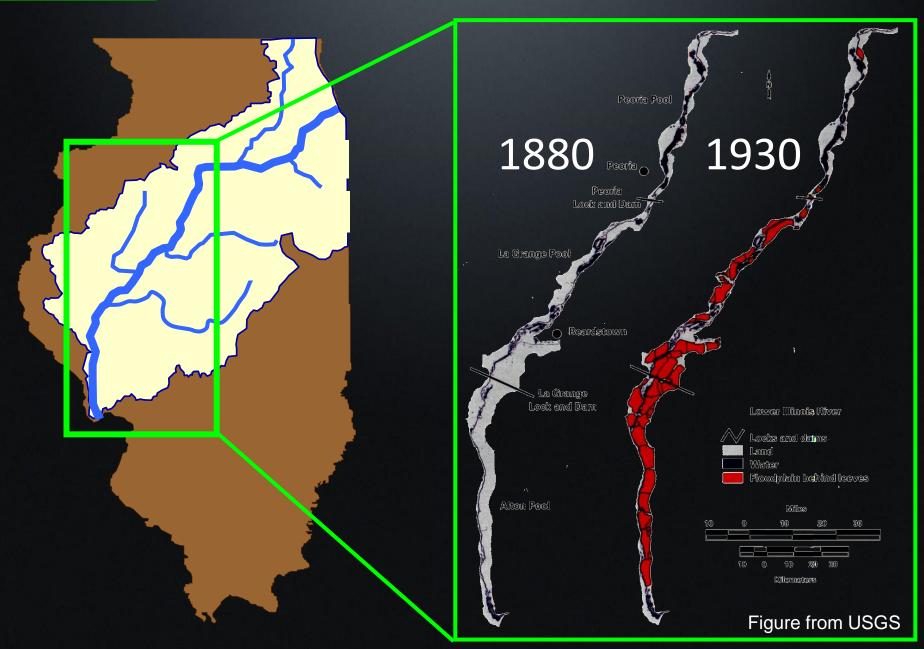
Heath Hagy & Chris Hine

Bellrose Waterfowl Research Center Forbes Biological Station





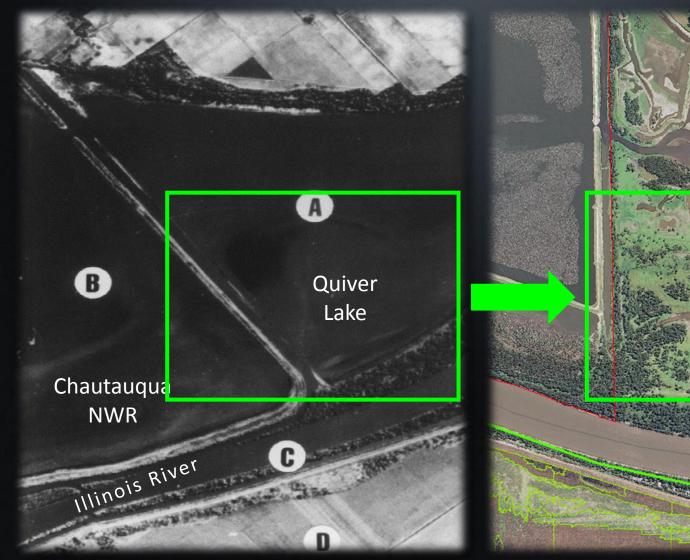








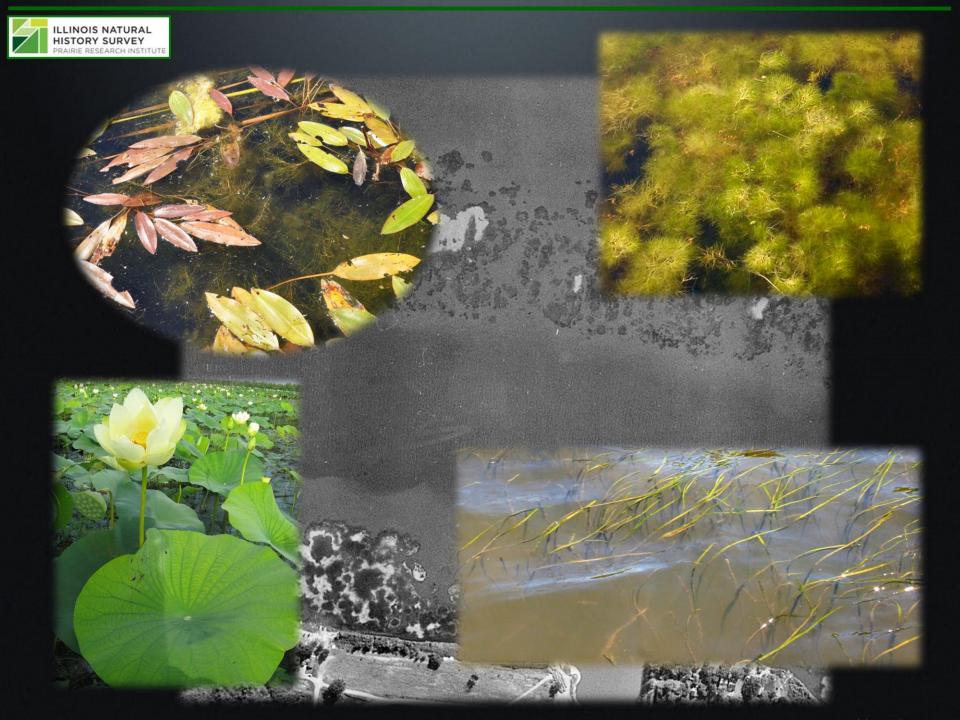




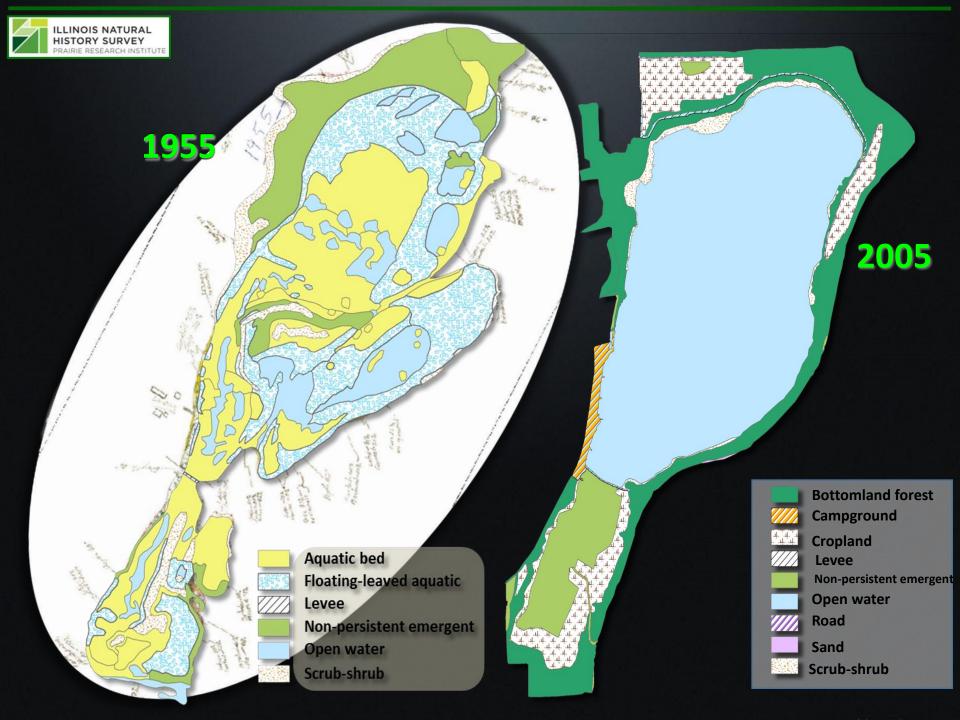














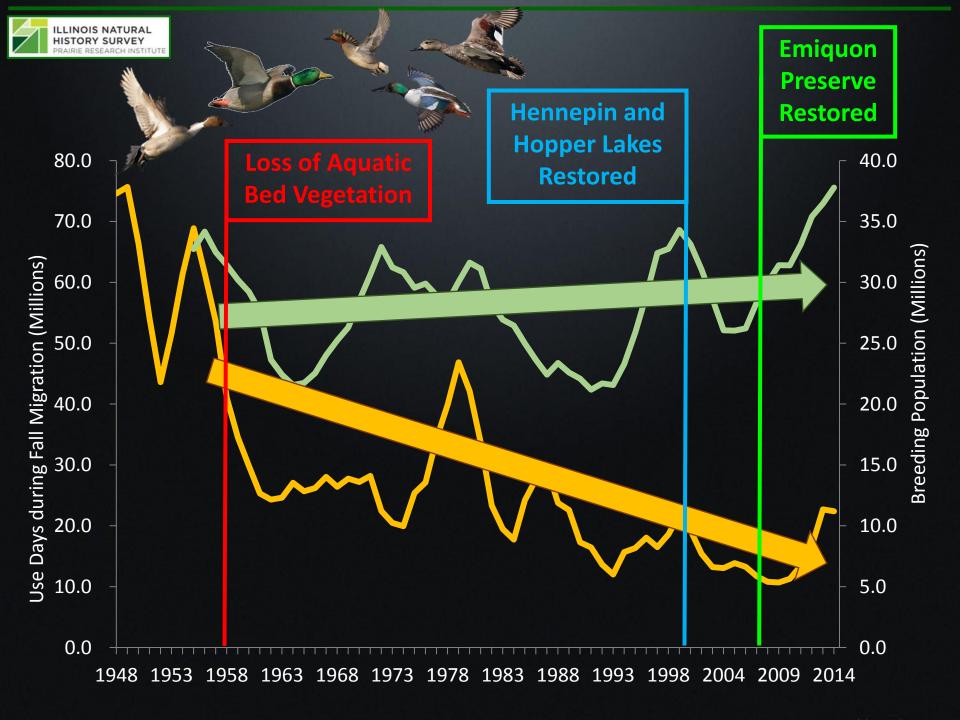
Chautauqua Lake

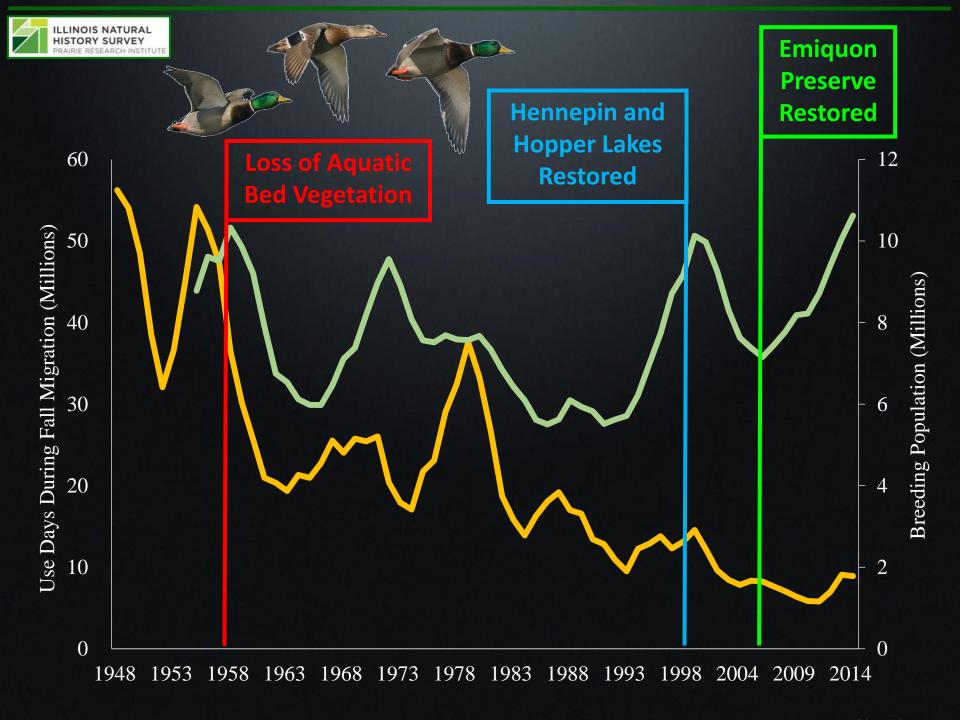
	Percent	
Habitat type	1942	2005
Aquatic bed	2.5	0.5
Bottomland forest	8.7	20.0
Cropland	0.0	0.0
Floating-leaved aquatic	48.2	0.0
Levee	3.5	3.3
Mudflat	0.0	2.8
Nonpersistent emergent	2.7	32.7
Open water	32.1	38.7
Scrub shrub	0.0	1.5
Persistent emergent	2.3	0.6

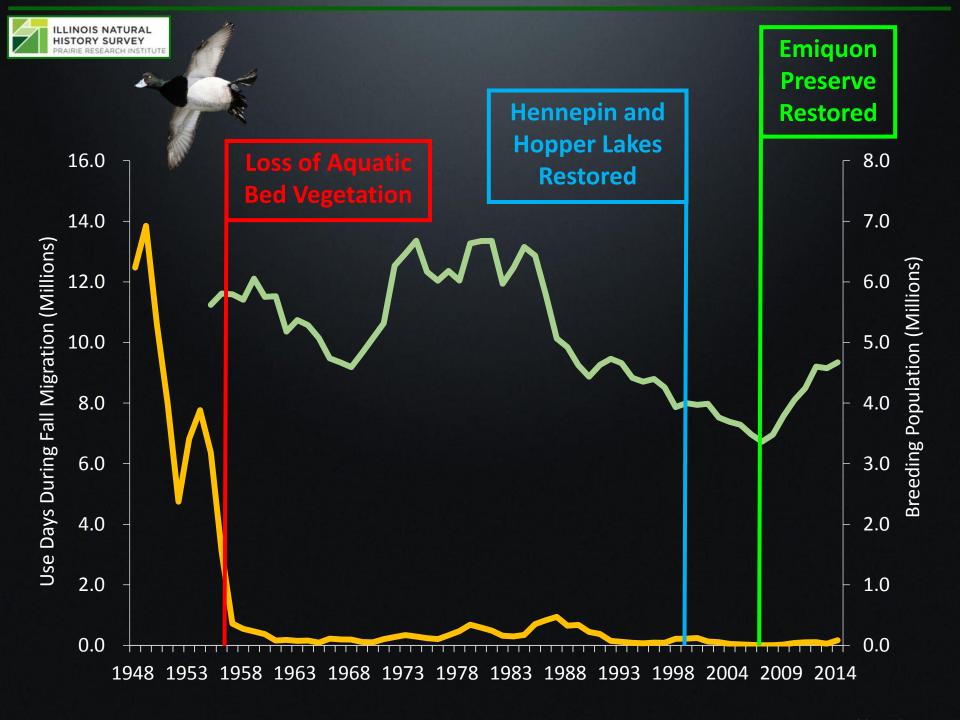


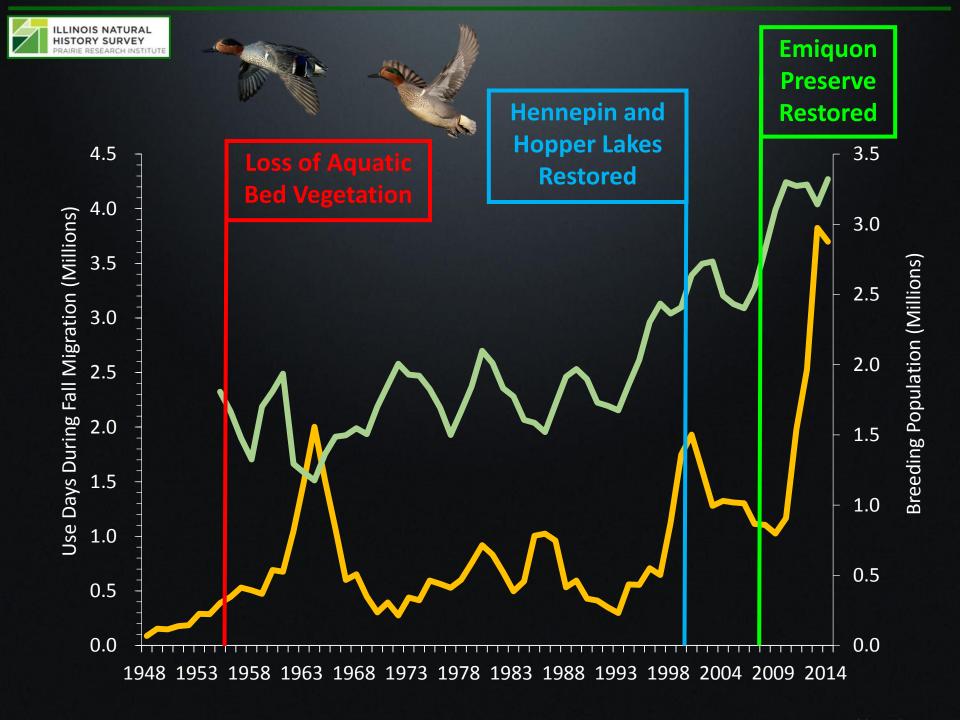


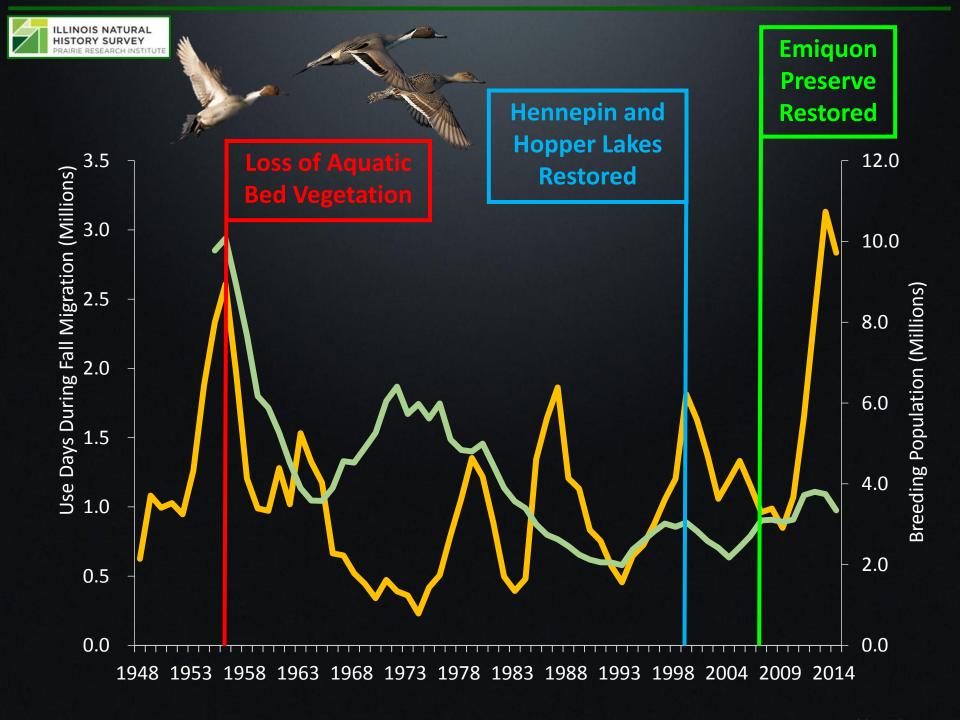
Photo: Steve Gifford

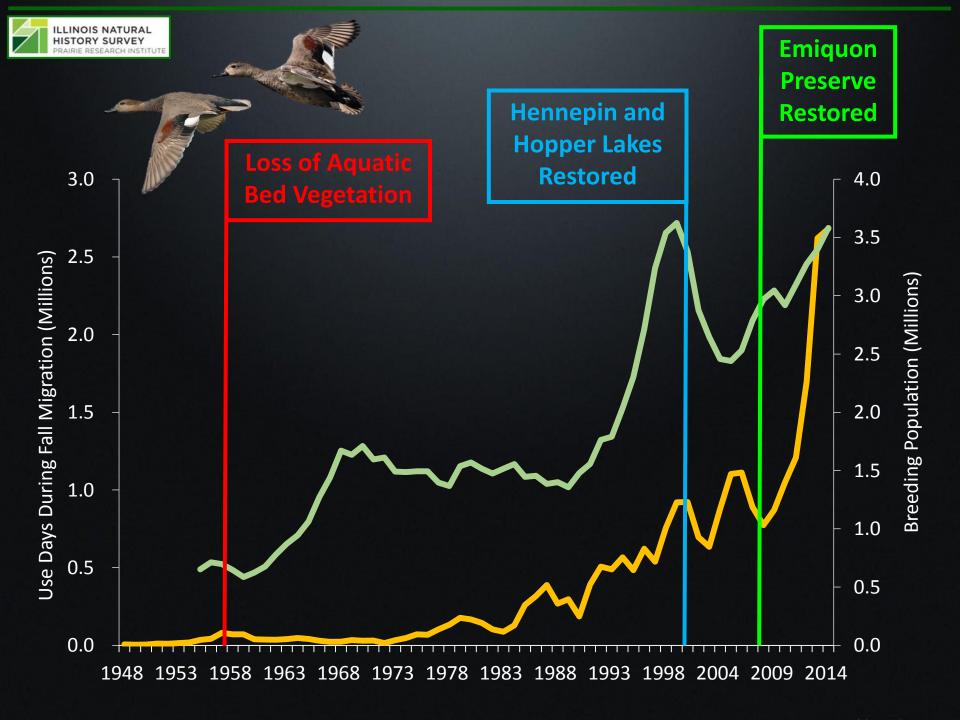


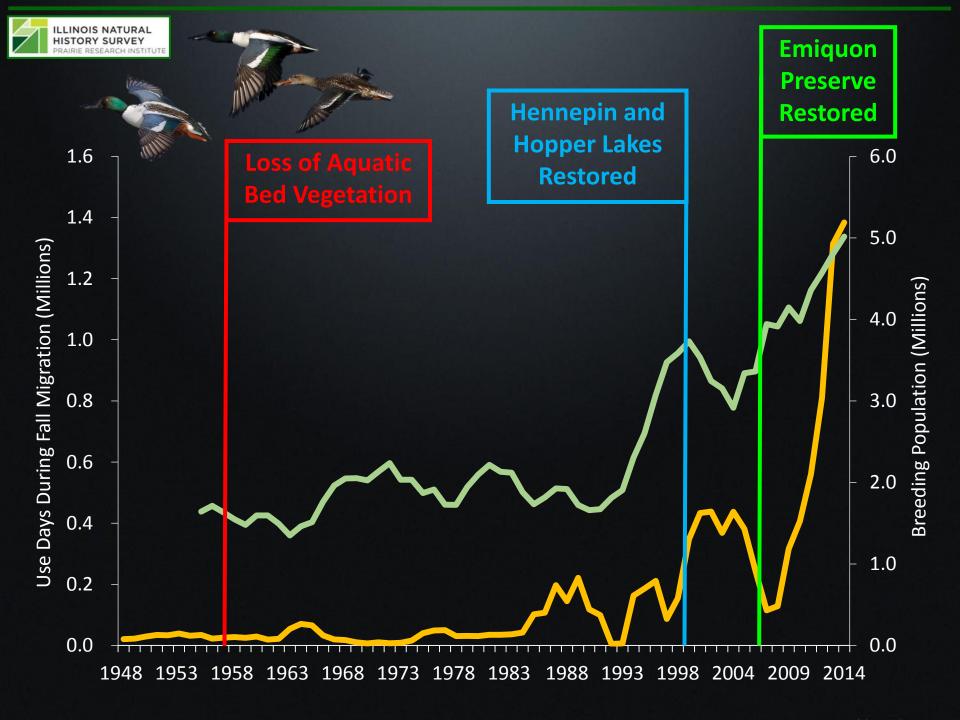


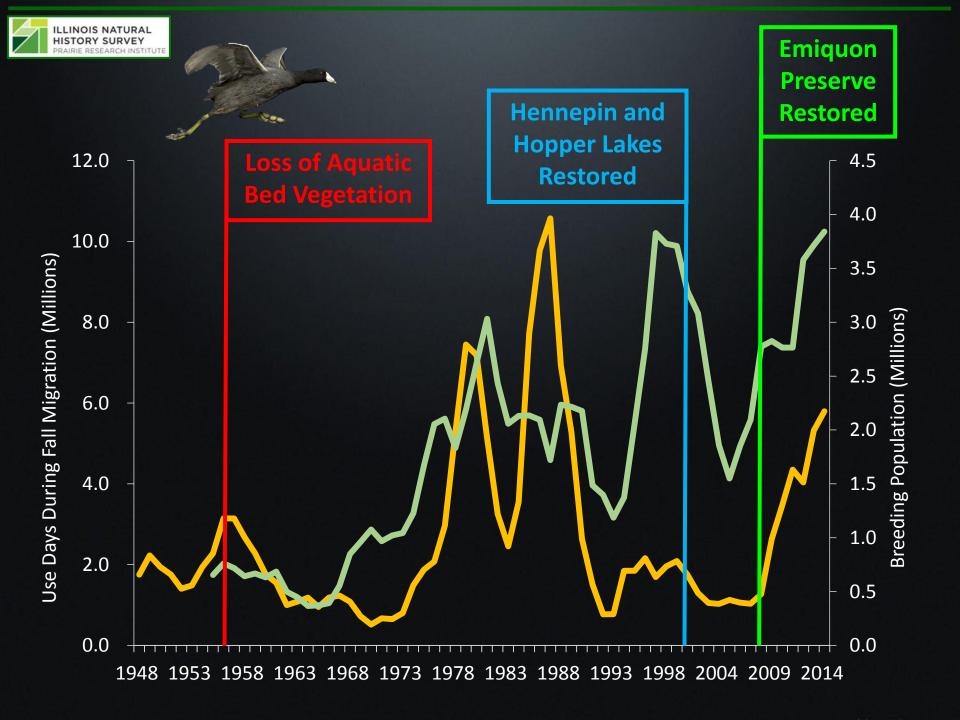




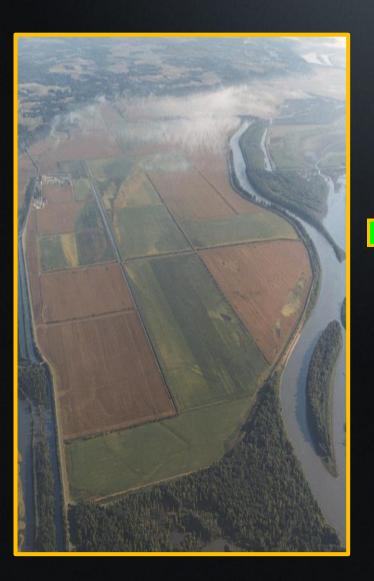


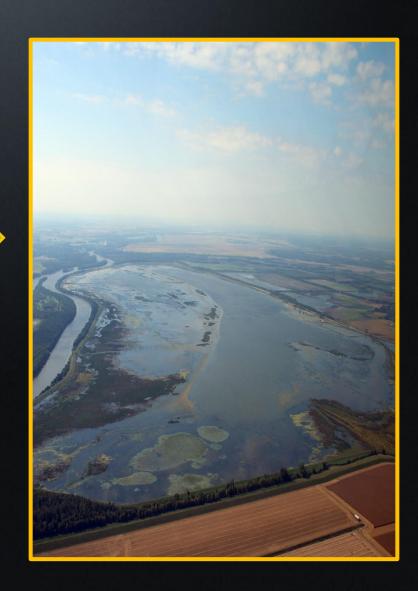




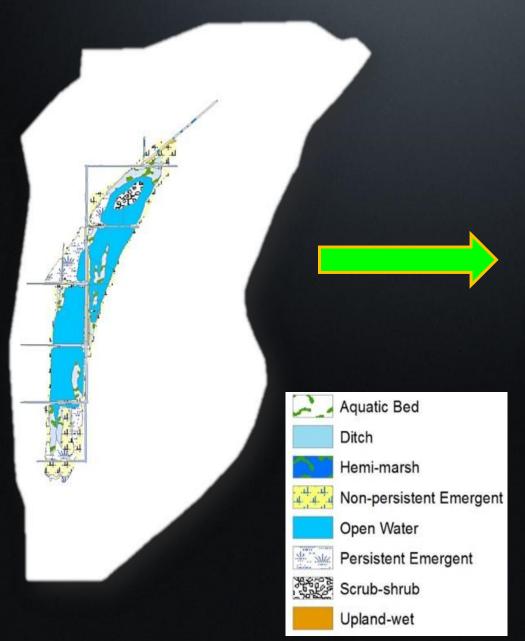








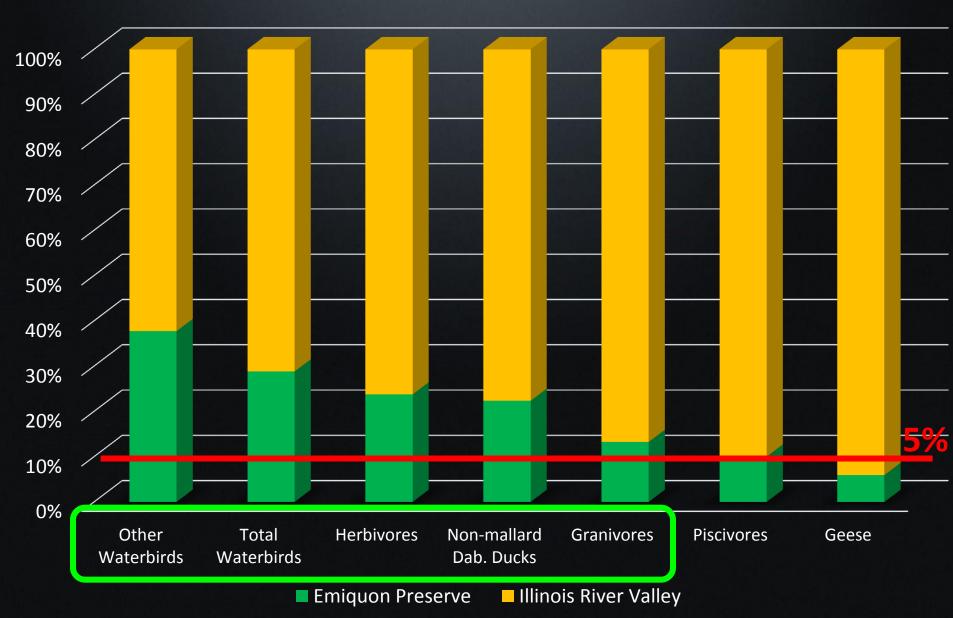






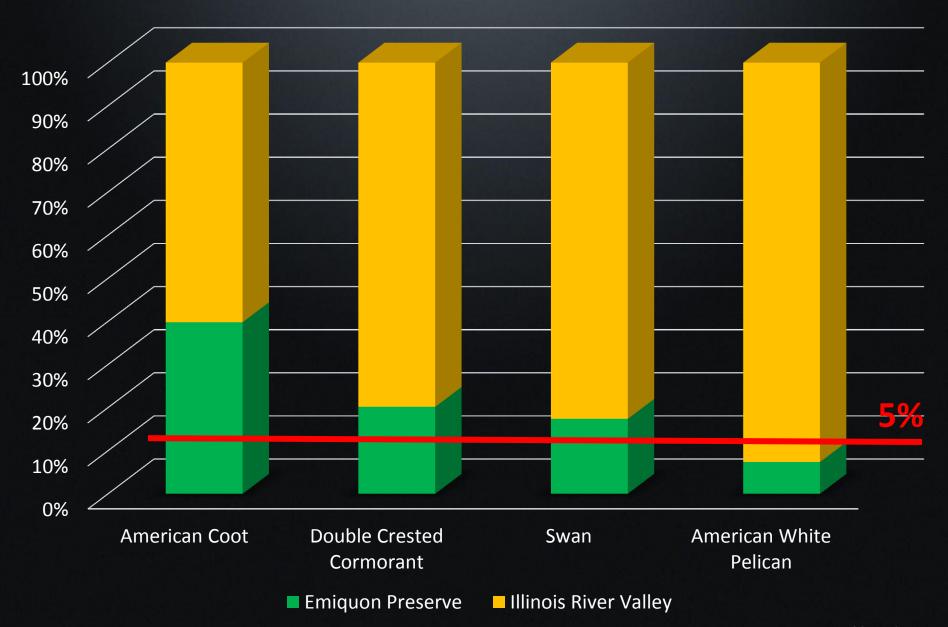


All Waterbird Guilds - Fall Use Days 2007-2014



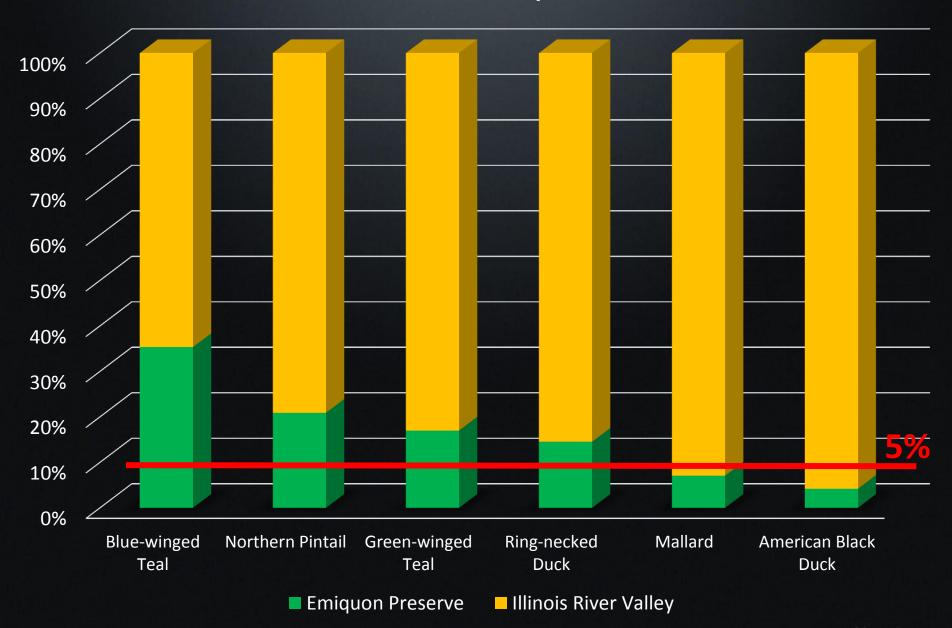


Other Waterbirds - Fall Use Days 2007-2014



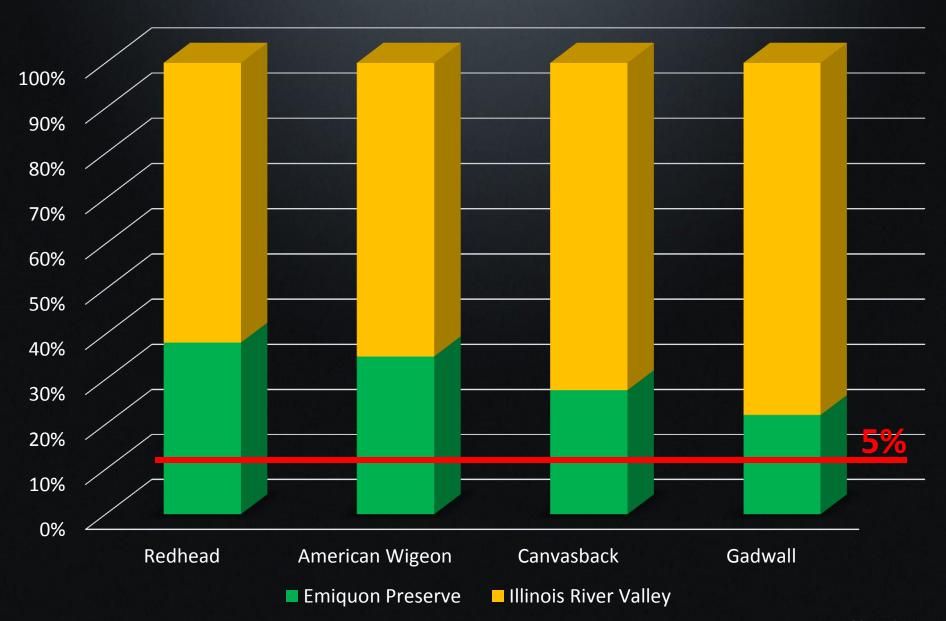


Granivores - Fall Use Days 2007-2017





Herbivores - Fall Use Days 2007-2014



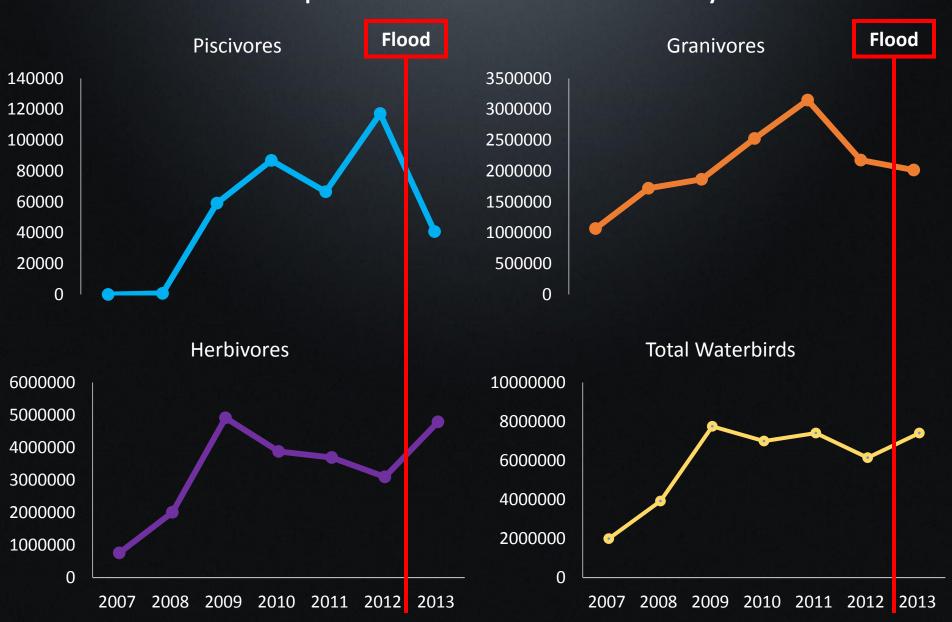






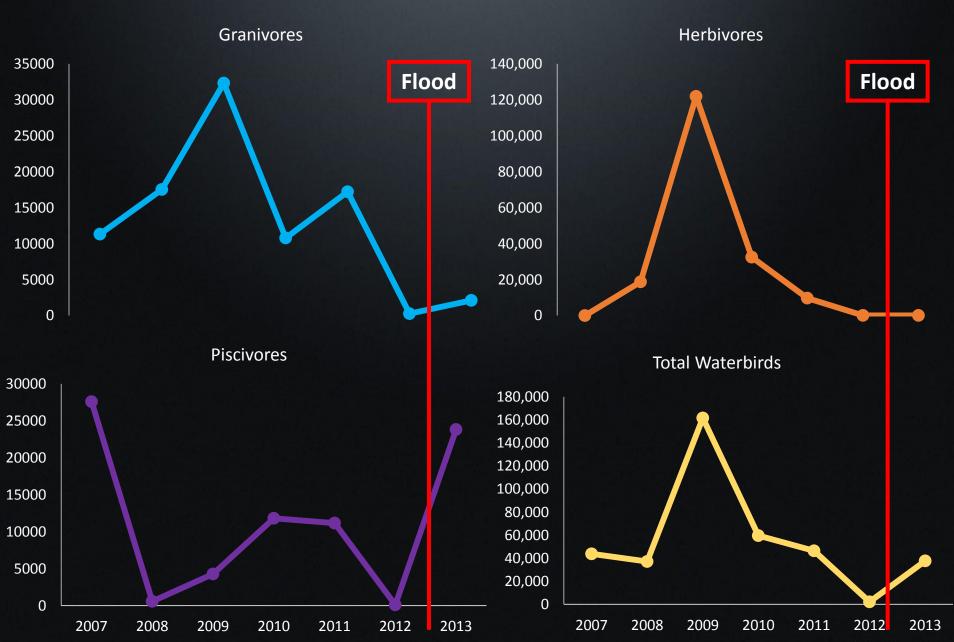


Emiquon Preserve - Fall Use Days



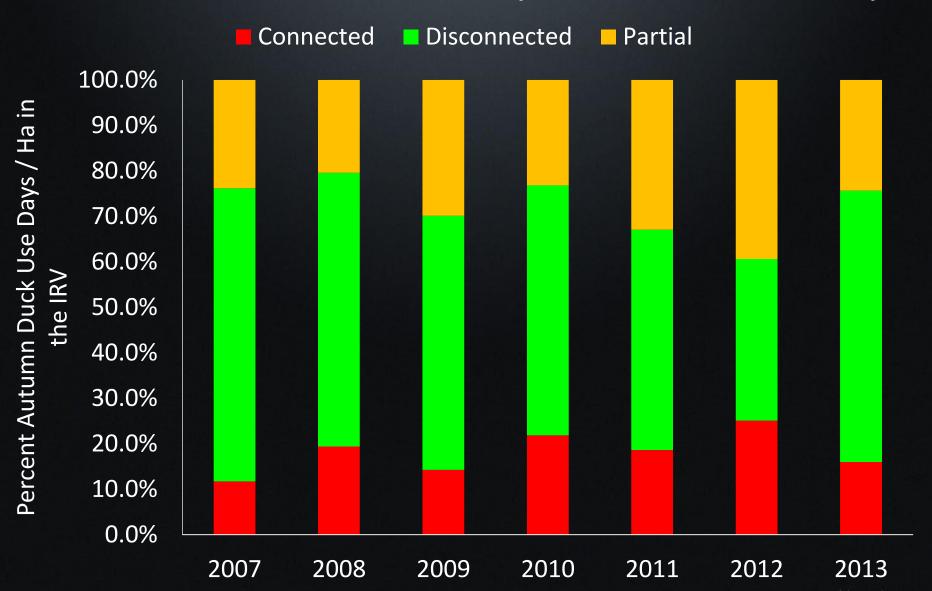


Merwin Preserve – Fall Use Days



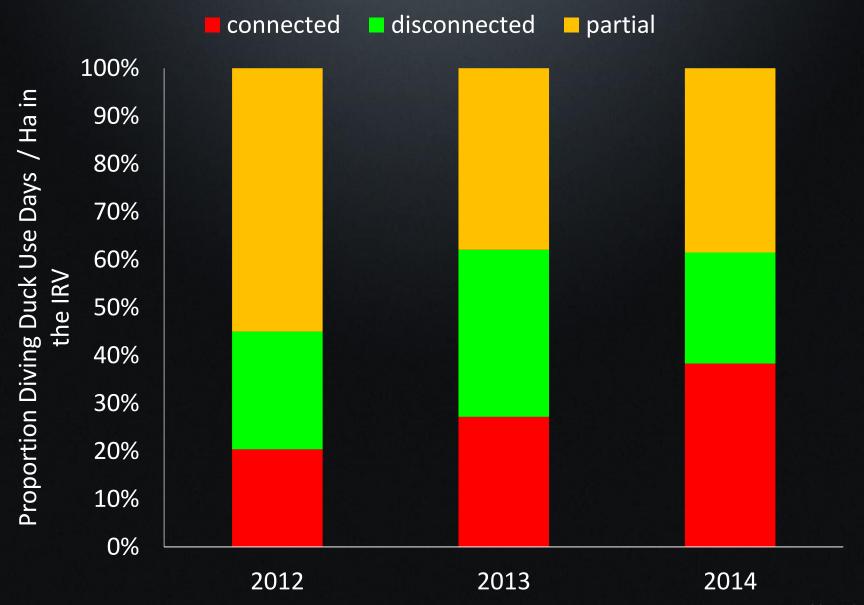


Autumn Waterbird Use by River Connectivity





Spring Diving Duck Use by River Connectivity





A Tale of Two Several Connections...

- Granivorous, Piscivorous, and Herbivorous waterbirds responded predictably to flooding and river connectivity
- An open river connection was incompatible with maintenance of submersed and floating leaf aquatic vegetation communities
- When we broaden the picture, it gets more complicated...
- Floodplains CANNOT be quality habitat for all species at all times (Remember – TRADEOFFS)
- Floodplains with no or partial connections to the Illinois River combined with drainage and flooding capabilities may provide the highest quality habitat for the most species.
- Can managed connections be the best of both worlds?









Acknowledgements

 <u>Coauthors and contributors</u>: Aaron Yetter, Michelle Horath, Randy Smith, and Josh Osborn





