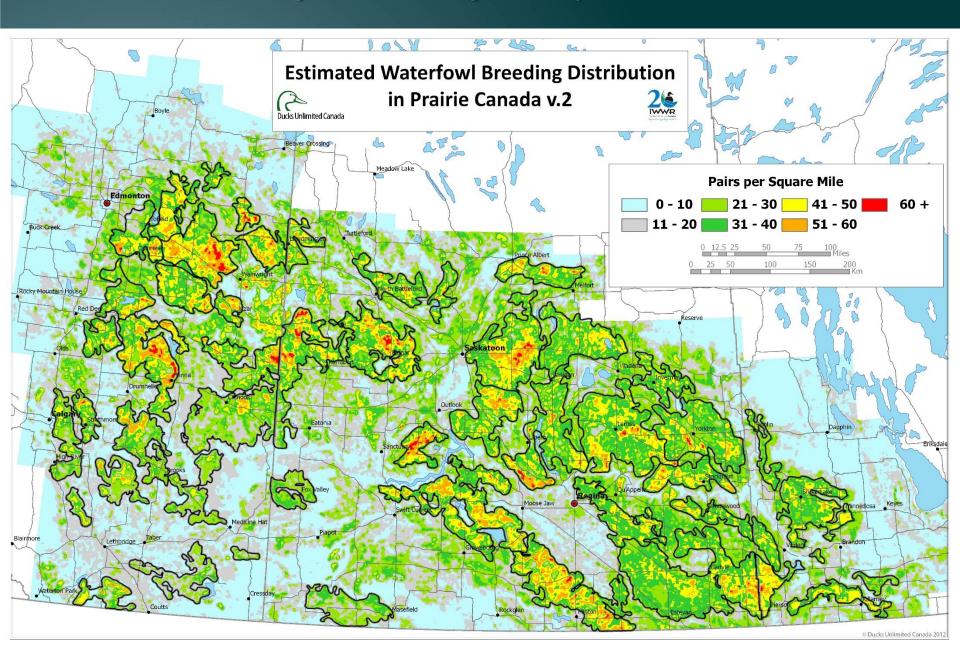


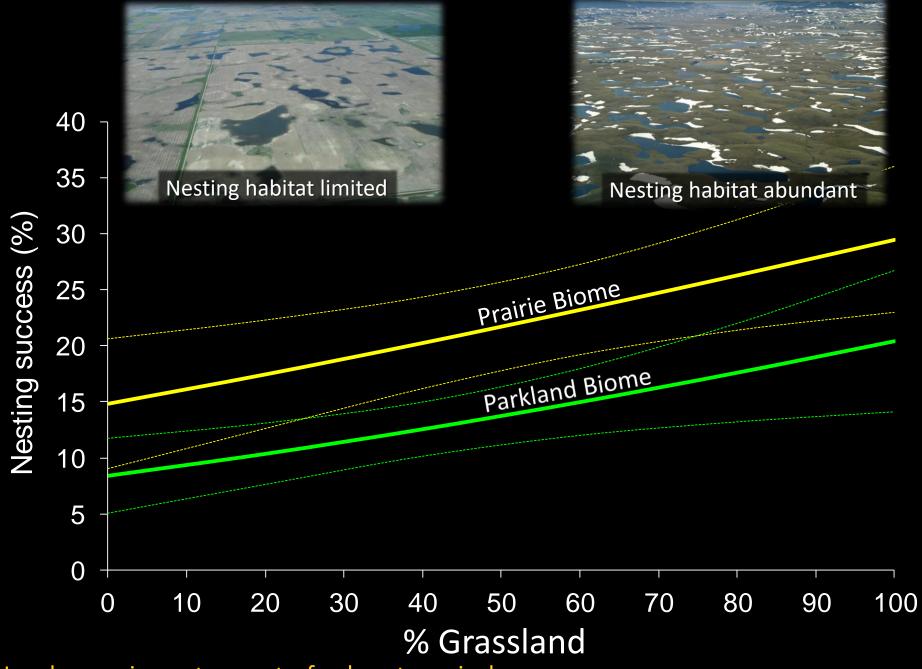
## **PHJV Science Committee**

To gather and incorporate the best scientific information supporting the goals, objectives and implementation of the Prairie Habitat Joint Venture

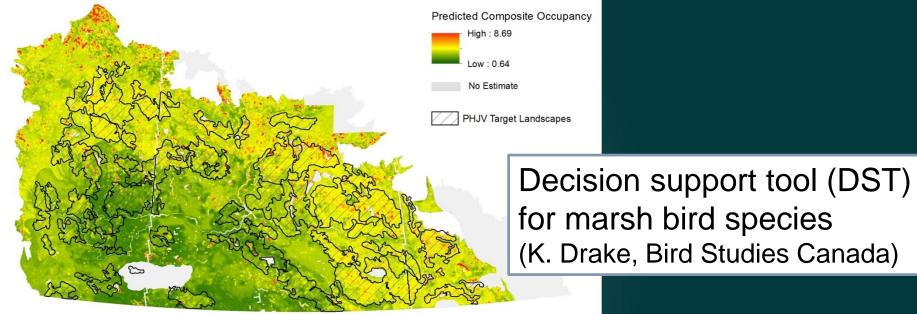
- Understanding the linkages between wetland and upland habitat amount and distribution and biological responses in terms of waterfowl and other bird diversity, abundance and reproductive success
- Ties to not only the impact of ongoing landscape change, but to the effect of PHJV conservation impact as well.

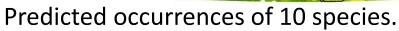
## Predicted Waterfowl Breeding Density in the Canadian PPR

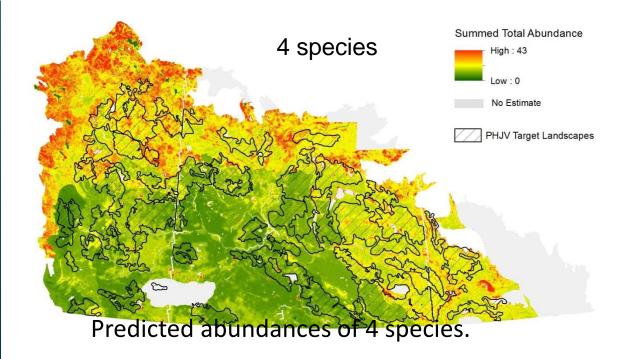


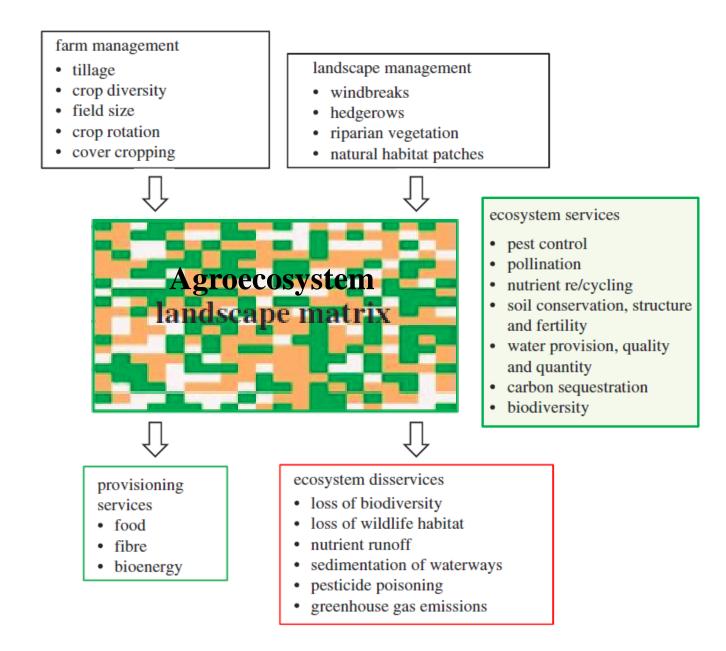


Landscape impact on waterfowl nest survival









Modified from: Ecosystem services and agriculture: tradeoffs and synergies, Power (2010)



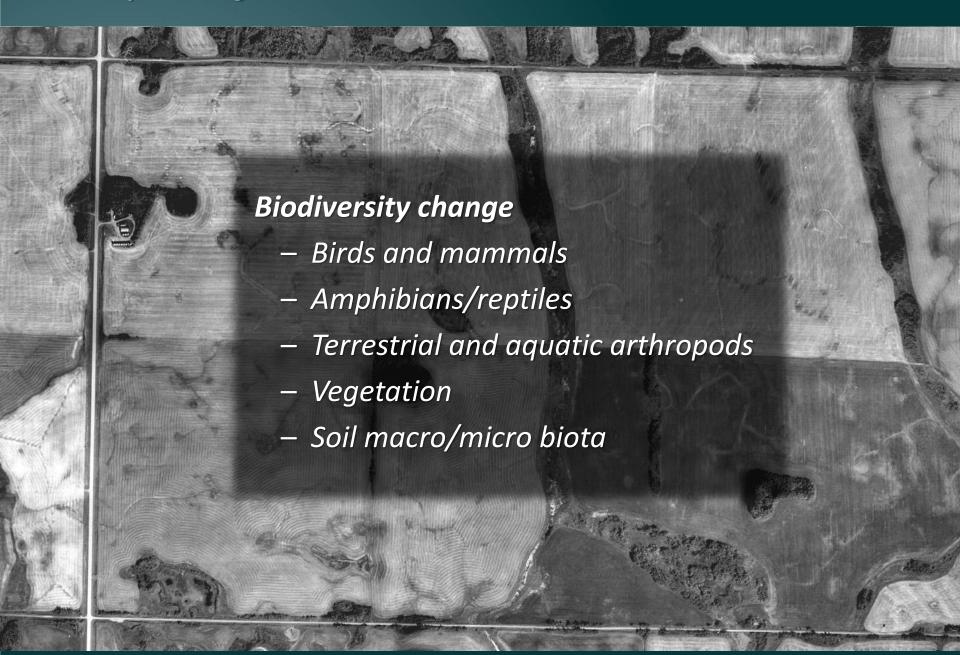
Recognizing the broader biodiversity values of wetlands and uplands...

 Requires an understanding of the linkages between prairie wetland an upland habitats and the species that depend on them (birds, amphibians, pollinators, etc.)



Habitats benefitting waterfowl, benefit multiple other species...

## Landscape change



## Recap of Challenges and Needs – Wetlands and Biodiversity

- "Ecological health assessments", "EGS", "Wetland Value", "Wetland Benefits", "Ecosystem Health", "Fish or Wildlife Habitat", "Habitat Loss" – what do we mean, specifically?
- Link to farm economics e.g., pollinating and beneficial insects
- Level of biodiversity information informing wetland assessments?
- Changing agricultural practices nutrients/pesticide impacts on wetland functions
- Wetland Inventory…!

