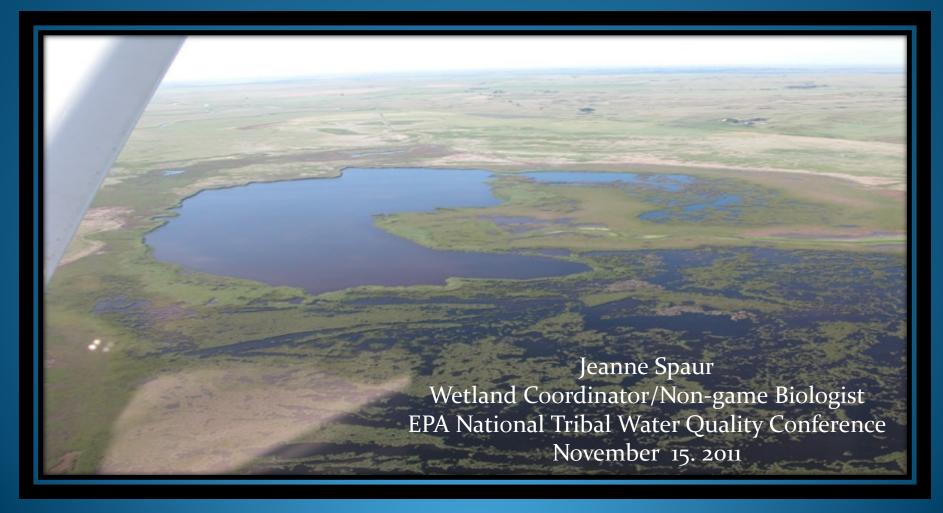
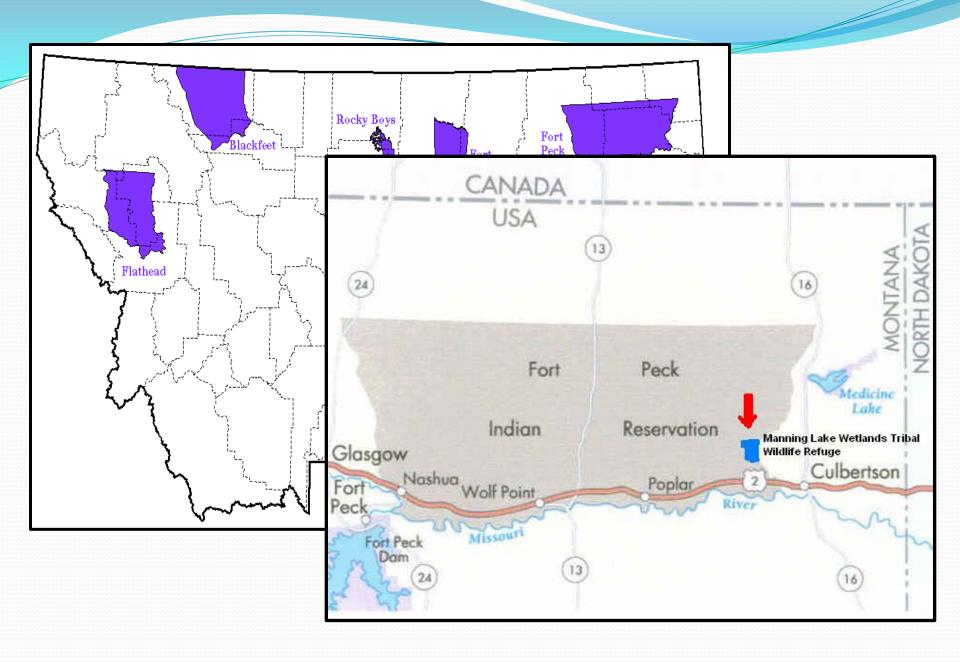
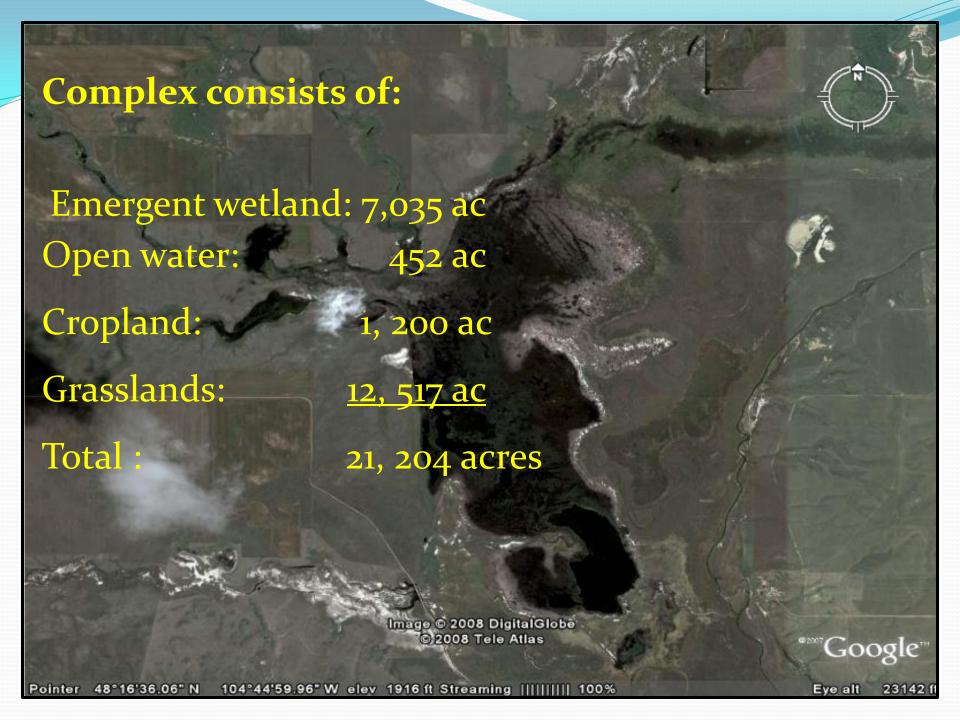
FORT PECK TRIBES' MANNING LAKE WETLAND COMPLEX AND TRIBAL WILDLIFE REFUGE





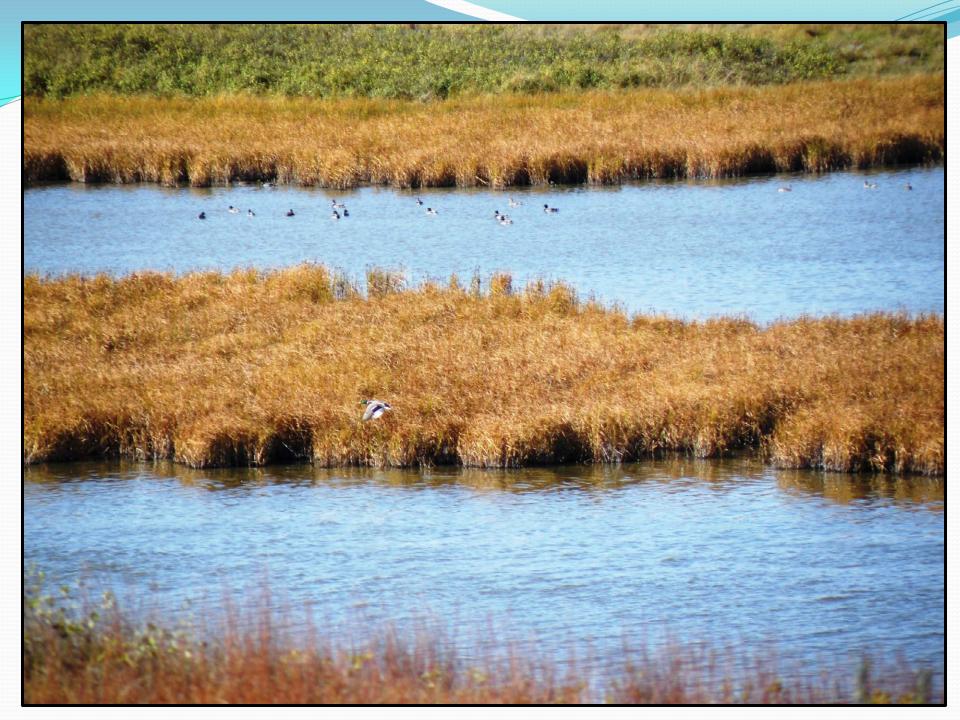


Wetland Complex Provides:

reproduction and stopover sites for thousands of waterfowl, migratory birds, songbirds, and other species of conservation concern

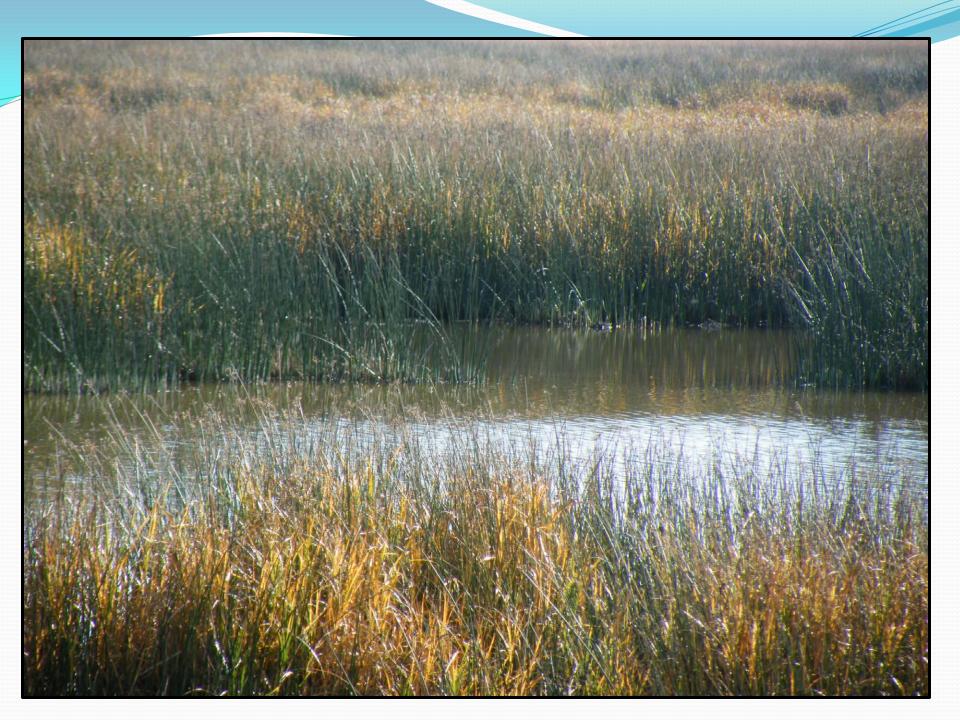


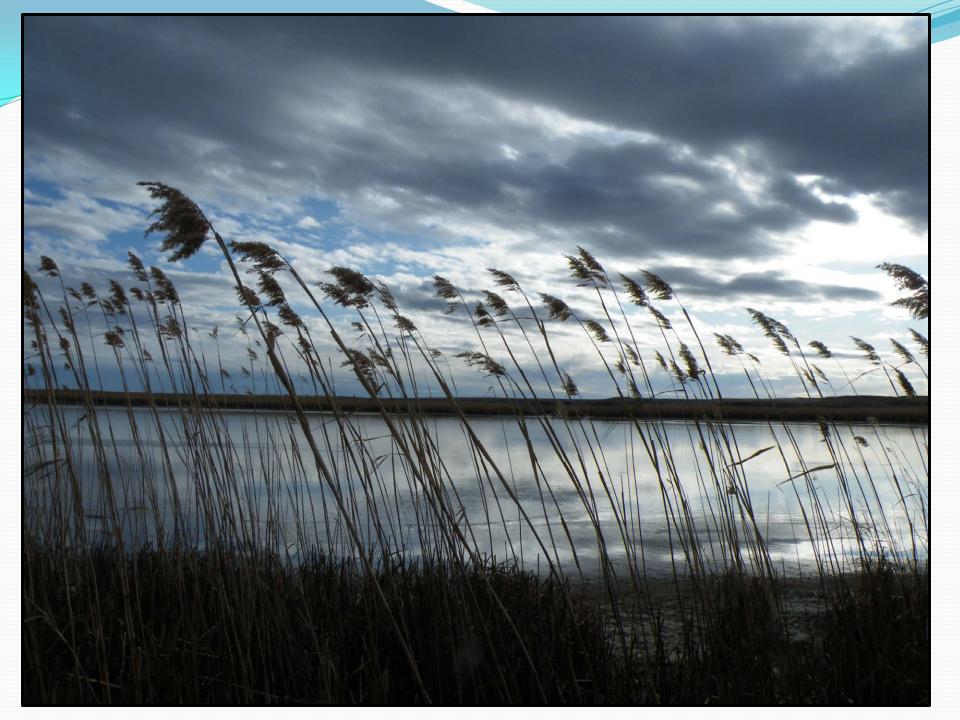


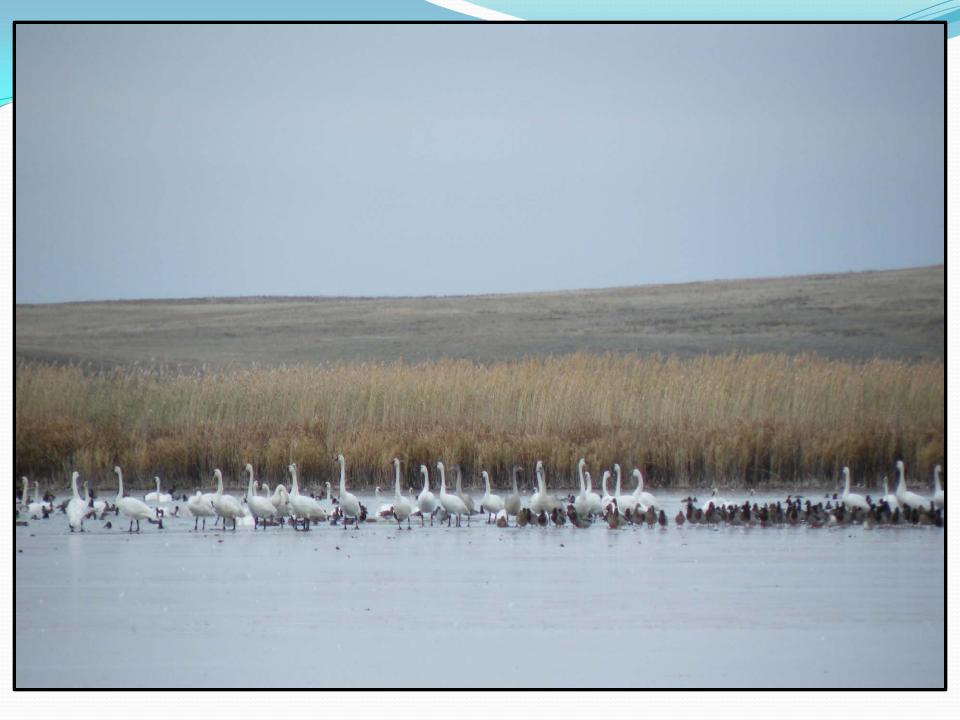
























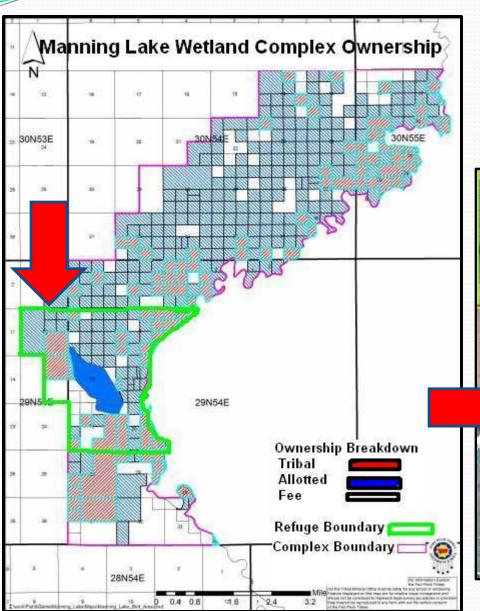




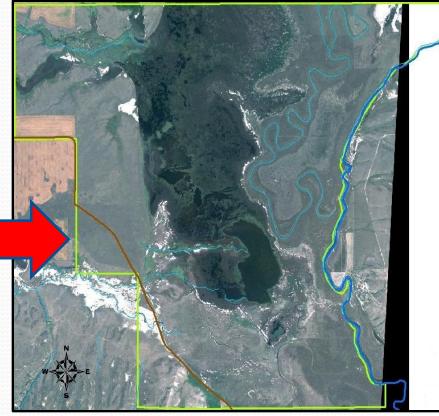
PROTECTION, MANAGEMENT, & RESTORATION OF COMPLEX THROUGH....

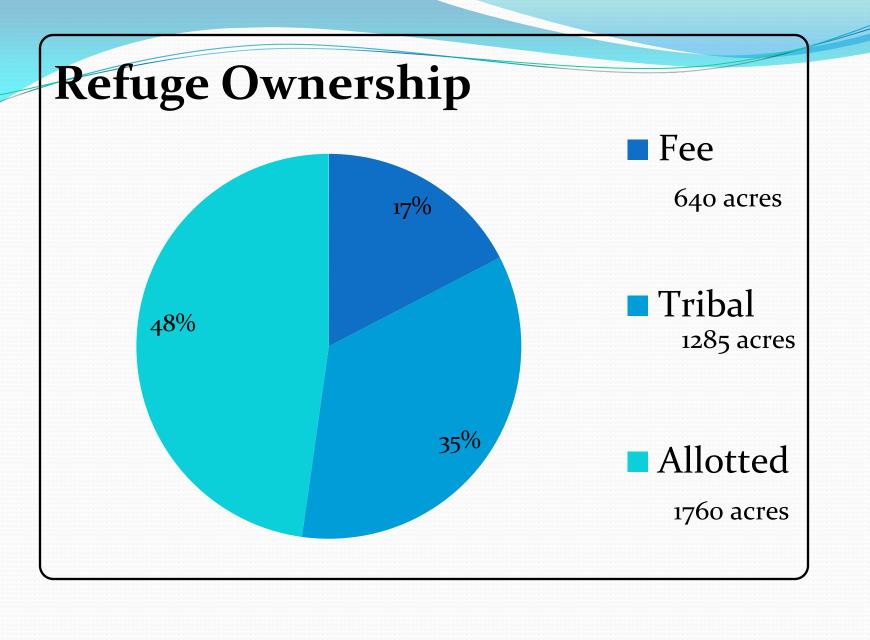
- 1. Designation of Tribal Wildlife Refuge
- 2. Development of water quality monitoring methods
- 3. Determine hydrologic functionality
- 4. Development of habitat and wildlife species monitoring strategies
 - → Provide baseline information to help monitor condition and health of the ecosystem
 - → Link between WQ and health of habitat and inhabitants

1. DESIGNATION of REFUGE:



All Tribal land within 4,882 acre boundary





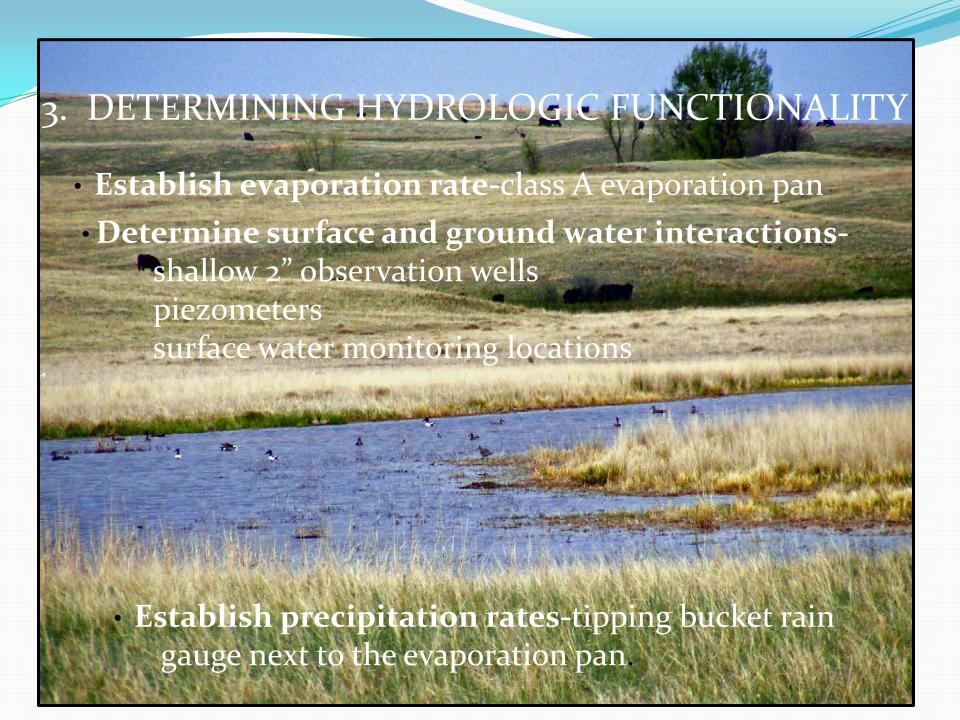
2. WATER QUALITY MONITORING

Temperature
pH
Dissolved oxygen
Conductivity
Salinity
Depth
Invertebrates

Nitrates







4. DEVELOPMENT OF HABITAT AND WILDLIFE SPECIES MONITORING STRATEGIES

Map vegetation communities/associations

One site will be randomly selected per each vegetation community and 5 points will be surveyed within a 100 meter radius of this point.

Percent primary cover type Vertical vegetation density

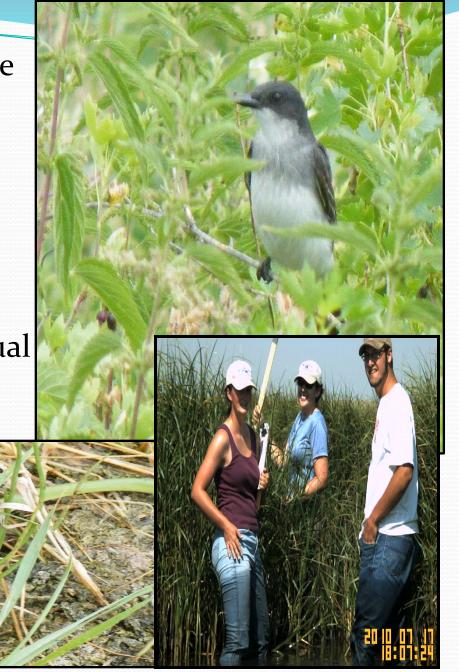
Average height of both live and dead vegetation- determines nesting/cover habitat

"Patty" counts-presence/absence of livestock

Breeding birds: 5 points per vegetation community, 6 minute survey of activity within 100 m radius

Colonial nesting birds: estimated nest count survey before fledge

Amphibians: auditory and visual survey

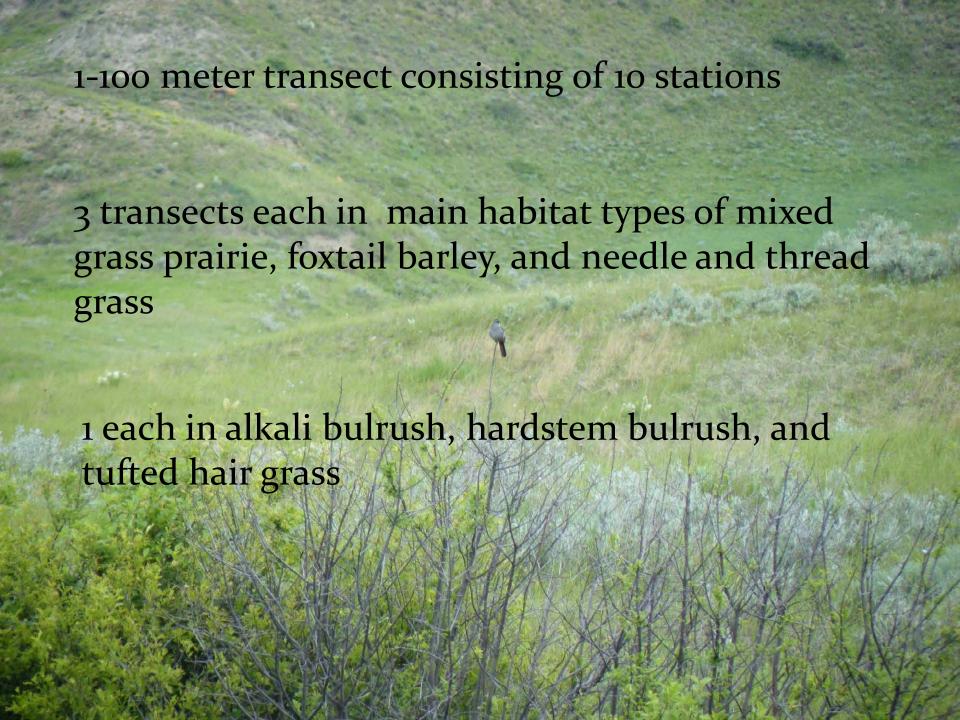


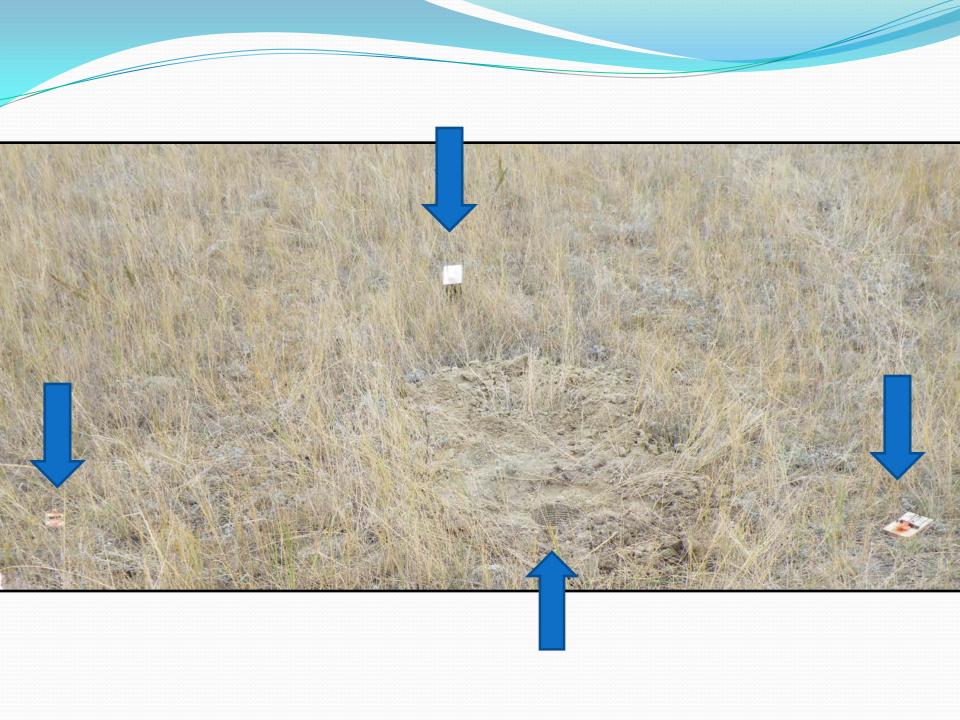
Small mammal diversity

Not much is known about ne Montana small mammal populations, especially in wetland communities

Quantitative data is virtually lacking from most EPA regions as well







14 transects:

Mice: 39

Voles: 37

Shrews: 6

Least weasel: 1

13-lined ground squirrel: 1

Birds: 9 marsh wrens, 2 chicks

Herps: leopard frogs

tiger salamande





	#						
Habitat	Transects	Mice	Vole	Shre			
Tufted hair grass	1	2	1				
						162	
							1
Clustered field sedge	1	0	3				
Alkali bulrush	1	10	5				
Hardstem bulrush	1	9	6		T		
MG Prairie	3	16	1				
						tiger salamanders	
Saline flat	1	0	0	0	0	0	
Foxtail barley	3	1	14	4	0	0	
Needle and thread							
grass	3	1	7	0	0	0	

PARTNERS INCLUDE:

US Fish & Wildlife Service **Environmental Protection Agency** MT Audubon Natural Resource Conservation Service University of Montana Philip L. Wright Zoological Museum MT Natural Heritage Program MT Fish, Wildlife, & Parks Medicine Lake NWR Red Rock Lakes NWR Bureau of Land Management Glasgow Chamber of Commerce **Army Corps of Engineers Native Plant Society**



