ERIN SEGAR

AREA RESOURCE SOIL SCIENTIST WETLAND RESERVE EASEMENT TEAM LEADER

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Topics

WETLANDS

- Importance and significance
- Historical degradation of functions and values
- Wetland restoration impacts

ACEP-WRE PROGRAM

- Objectives
- Conservation Practices
- Enrollment options



BOTTOMLAND
TIDAL FRESHWATER~MARSH
BILLABONG OXBOW
REEDMACE SWAMP WET MEADOW
WET PRARIE LAGOON POTHOLE
PLAYA SLOUGH CARR
SALT MARSH PAKIHI

WETLAND

RAUPO SWAMP BOGDAMBO MOOR

DELTA FENPOCOSIN REEDSWAMP
VLEIS MARSH
SEDGE MEADOW MIRE
VERNAL POOL MUSKEG
MANGAL PEATLAND TURLOUGH
WAD

Wetlands

- Must meet all 3 criteria:
 - Hydric Soils
 - Hydrophytic Vegetation
 - Wetland Hydrology



Importance of Wetlands

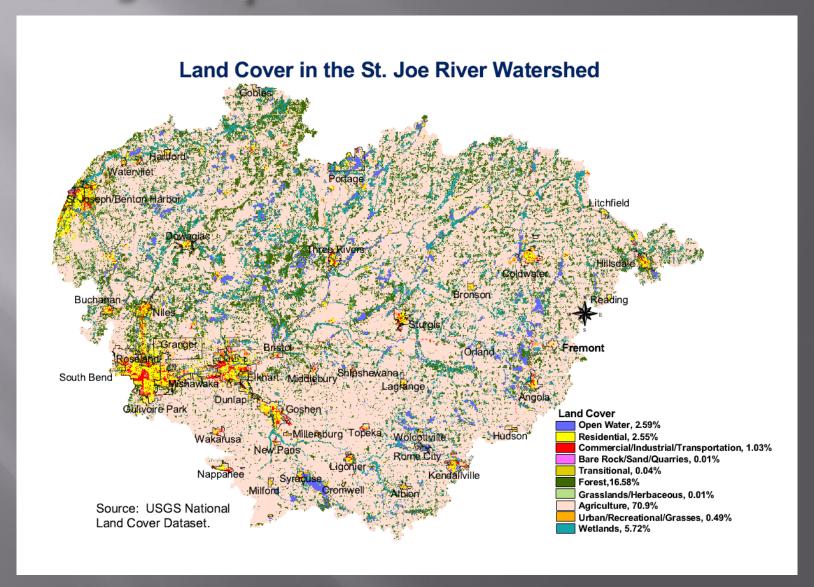


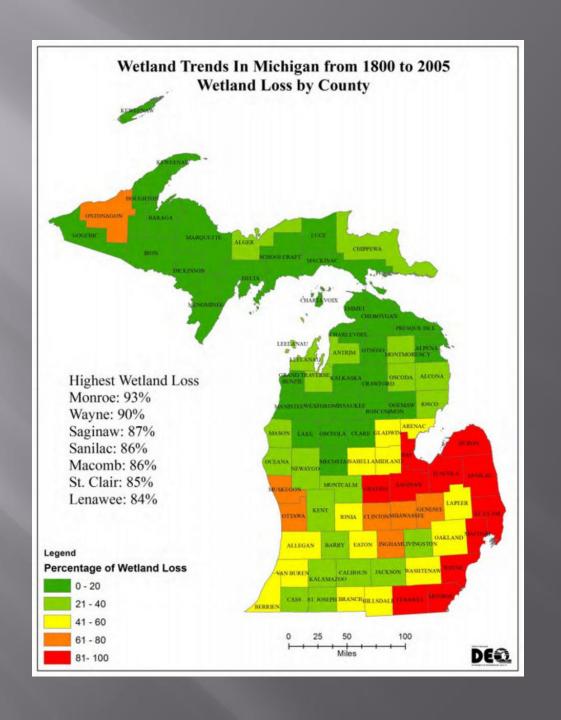
- Water storage
 - Groundwater recharge & Flood retention
- Nature's filter
 - Sediment & Nutrients
- Habitat for wildlife
 - Food & Cover
- Harbor for T/ESpecies
- Aesthetically pleasing

St. Joseph River Watershed

- Ox Creek watershed within Lower Paw Paw Watershed within St. Joseph River Watershed
- St. Joseph River Watershed:
 - 3rd largest watershed draining to Lake Michigan
 - 1.5 Million people live in the watershed
 - 70% of watershed is used for production Agriculture
 - 50% historic wetlands lost

St. Joseph River Watershed







ACEP - WRE

- Agricultural Conservation Easement Program (ACEP)
 - Wetland Reserve Easement component
 - Formally know as the Wetland Reserve Program (WRP)



ACEP - WRE

Objectives: to protect, restore, and enhance the functions and values of wetland ecosystems to attain:

- Recharge of groundwater
- Protection and improvement of water quality
- Protection and enhancement of open space and aesthetic quality
- Habitat for migratory birds, wildlife, including T&E species

WRE Eligible Land

- Targeted sites include
 - Forest, cropland, grassland, pastureland
 - WHICH contain hydric soils currently farmed, converted, or significantly degraded/manipulated
 - WHERE wetland hydrology can be significantly restored
 - TO a condition similar to pre-settlement conditions (to the extent practicable)

ACEP-WRE

- Non-eligible sites:
 - Existing wetlands without hydrology degradations.
 - Sites unable to be restored to wetlands due to onsite/offsite conditions.

Wetland Restoration



Surface ditch plugged during restoration



Surface ditch before restoration

Wetland Enhancement



Wetland Enhancement



ACEP-WRE

- Vegetation restorations:
 - Tree plantings
 - Wetland grasses and forbs.
- Based on presettlement vegetation



ACEP - WRE

- Enrollment options:
 - 1. Permanent Easement
 - 100% restoration costs paid
 - Up to 95% of FMV paid for easement
 - 2. 30 year Easement
 - 75% restoration costs paid
 - Up to 75% of FMV paid for easement
 - 3. 30 year contract for Indian Tribes only
- Application deadline for St. Joseph River Watershed: March 15, 2016

ACEP - WRE Enrollment

Continuous Sign - Up Program!!

- NRCS Field Offices in Southwest Michigan:
 - Allegan
 - Berrien Springs
 - Big Rapids
 - Cassopolis
 - Centreville
 - Charlotte
 - Coldwater
 - Fremont
 - Grand Haven

- Grand Rapids
- Hastings
- Ionia
- Marshall
- Paw Paw
- Portage
- Shelby
- St. Johns

http://www.nrcs.usda.gov/wps/portal/nrcs/site/mi/home/