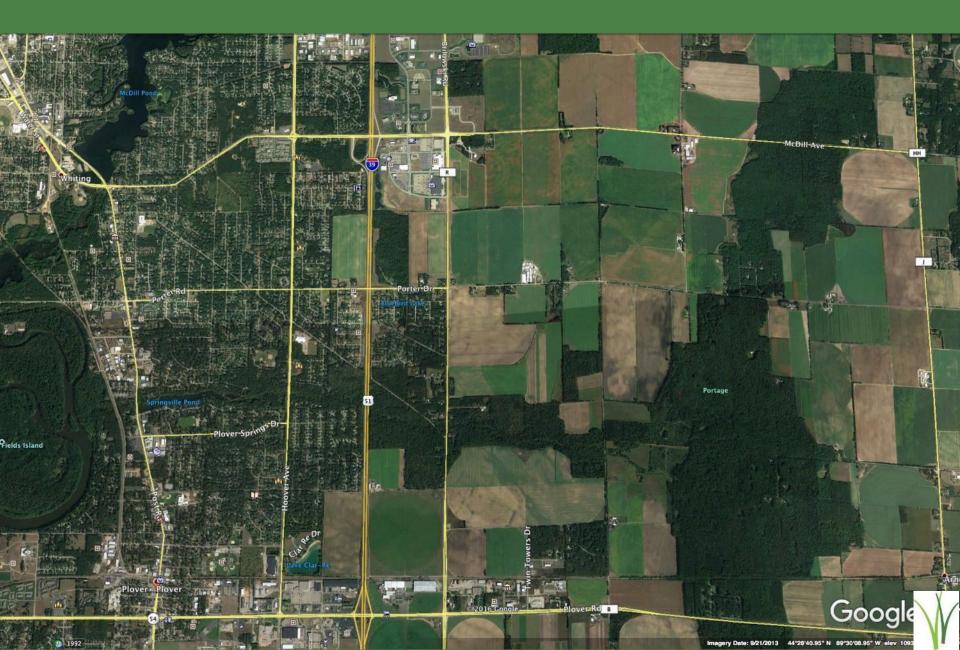
Little Plover River Watershed Enhancement Project



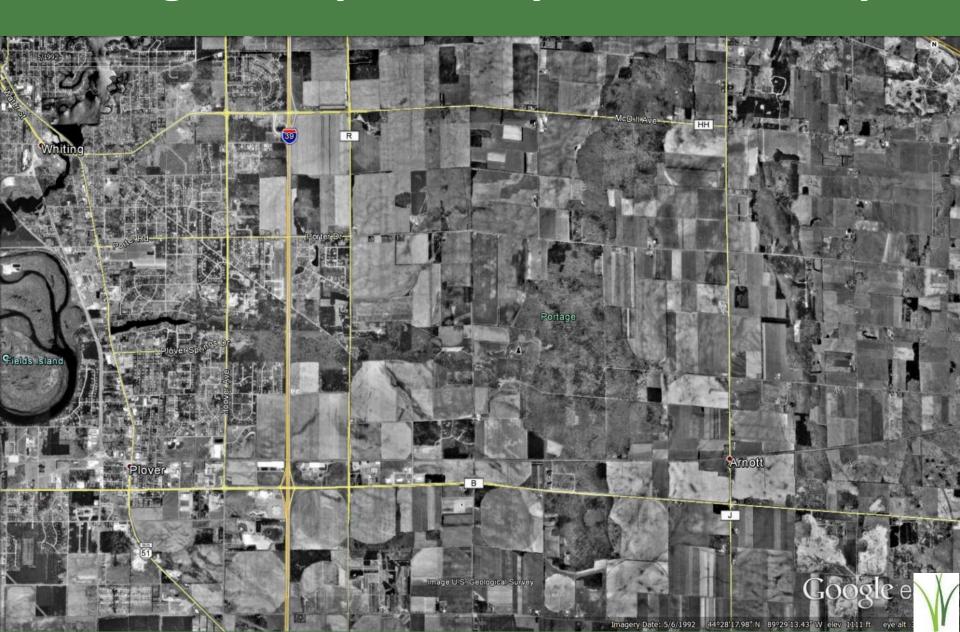
Dan Mahoney - Administrator, Village of Plover
Tracy Hames - Executive Director, Wisconsin Wetlands Association

April 2019

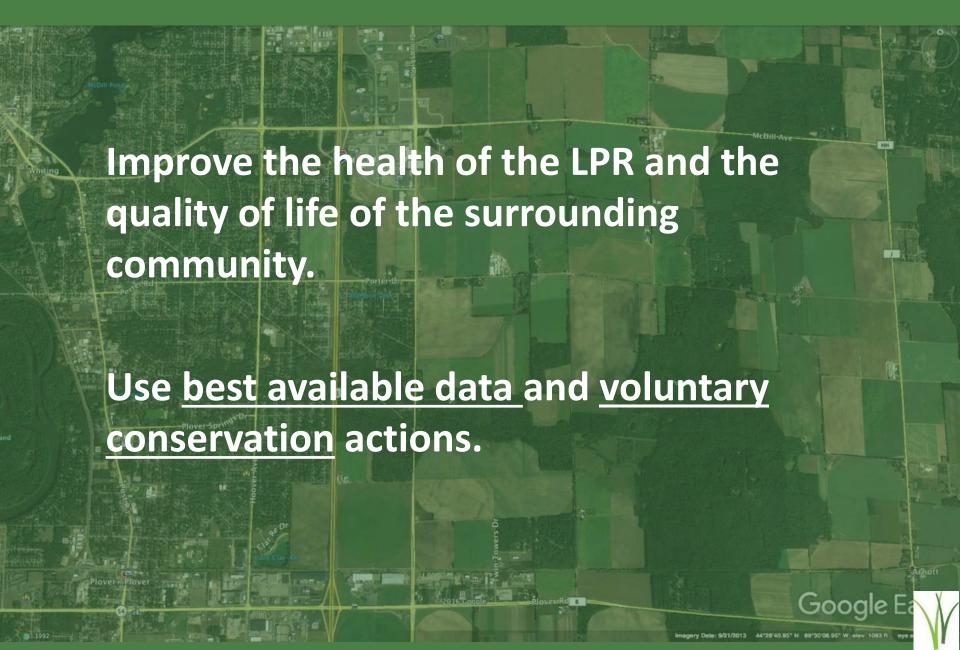
Little Plover River Watershed



Long History of Study & Controversy



Vision



Goals

Improve LPR flow & aquatic health.

Improve surface-groundwater connections & water retention.

Alleviate flooding.

• Improve & expand habitat & recreation opportunities.



LPRWEP Partners









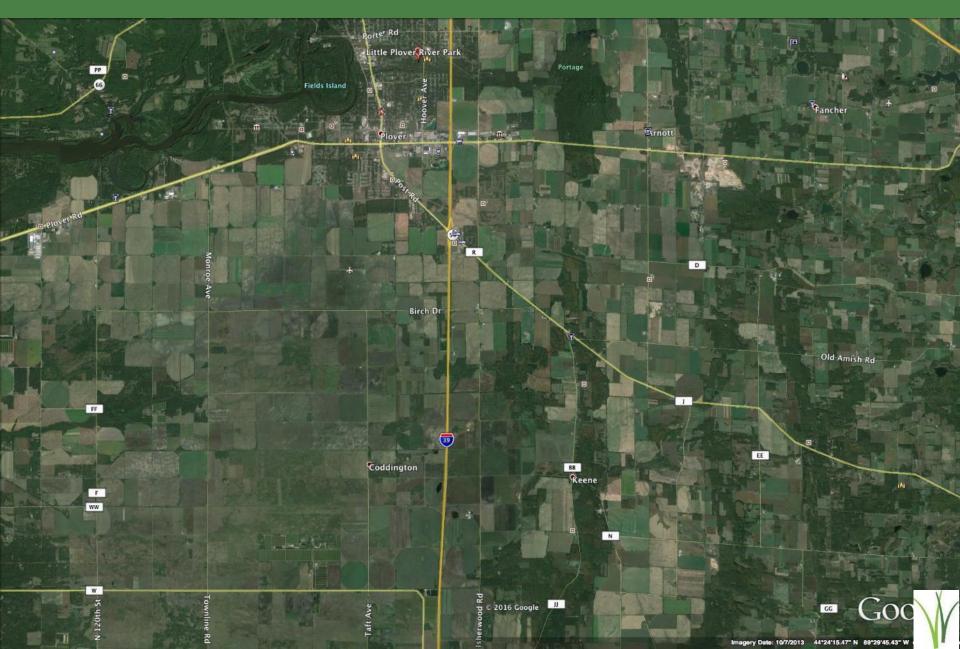




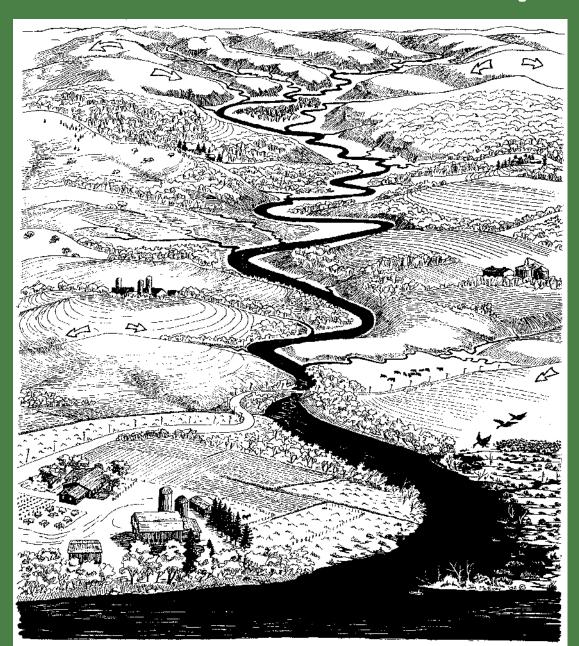




Community Leadership



Watershed Perspective



Upper 80% of Water

Ephemeral Riparian/Riverine

Wet Meadows

Middle

Floodplain
Sediment transport

Riparian/Riverine Alder/Shrub Carr

Lower

Depositional

Estuaries
Marshes
Shoreline Wetlands



Groundwater Model

A Groundwater Flow Model for the Little Plover River Basin in Wisconsin's Central Sands



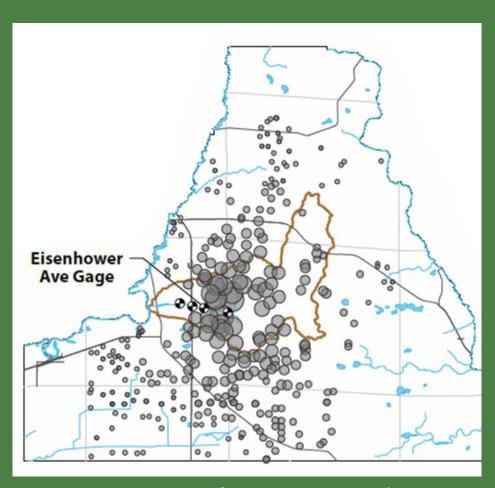
Bulletin 111 • 2017

Kenneth R. Bradbury Michael N. Fienen Maribeth L. Kniffin Jacob J. Krause Stephen M. Westenbroek Andrew T. Leaf Paul M. Barlow





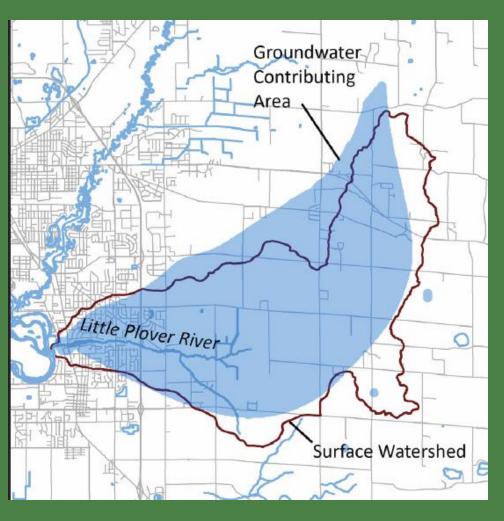
Flow Restoration Plan



Depletion potential from MODFLOW (WGNHS & USGS)

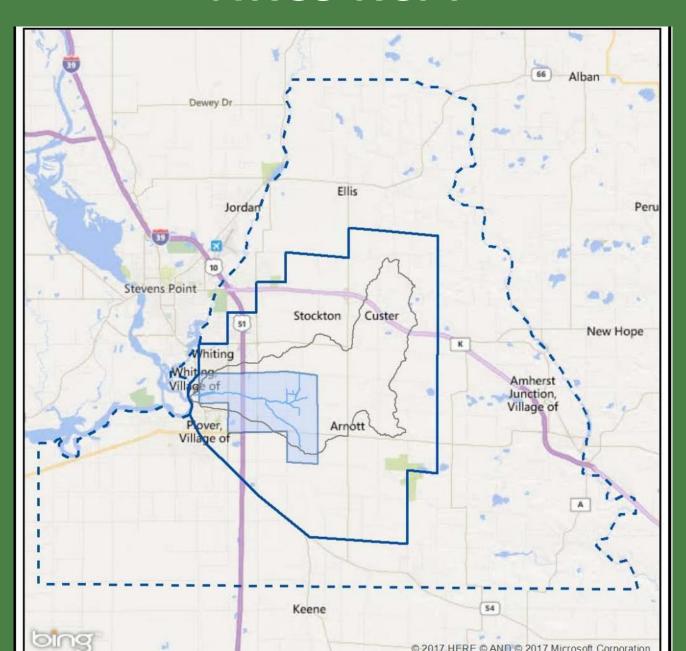
- Dozens of wells affect flow.
- Closer wells have more impact.
- Prioritizing actions by location / benefits.
- Groundwater model quantifying flow increases.

Potential Flow Restoration Actions



- Village well operation changes.
- Transitioning irrigated agricultural land to conservation areas.
- Additional agricultural irrigation changes.
- Other actions.

NRCS RCPP





Implementation



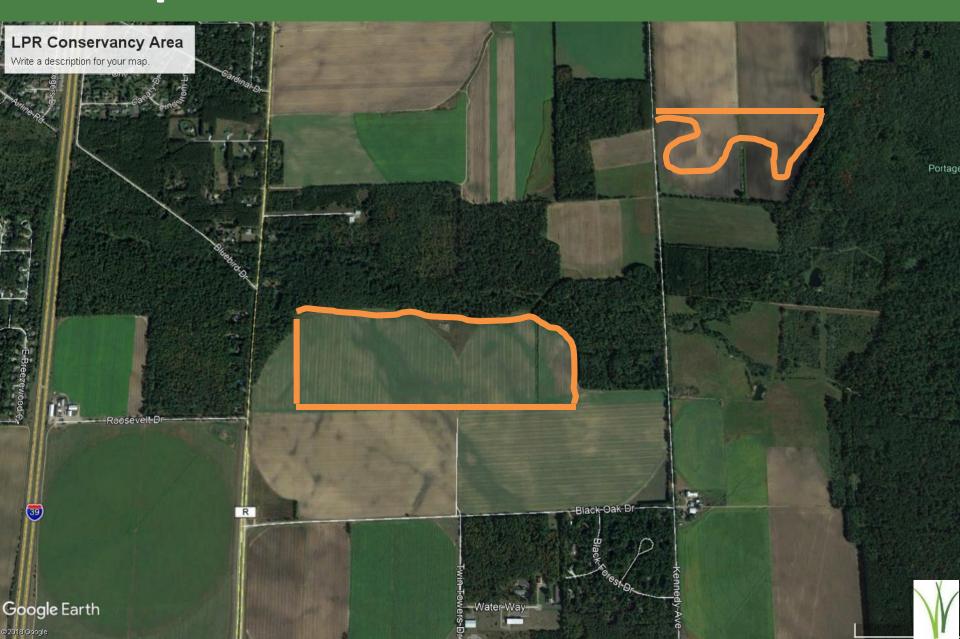
Habitat Projects



Historical Perspective



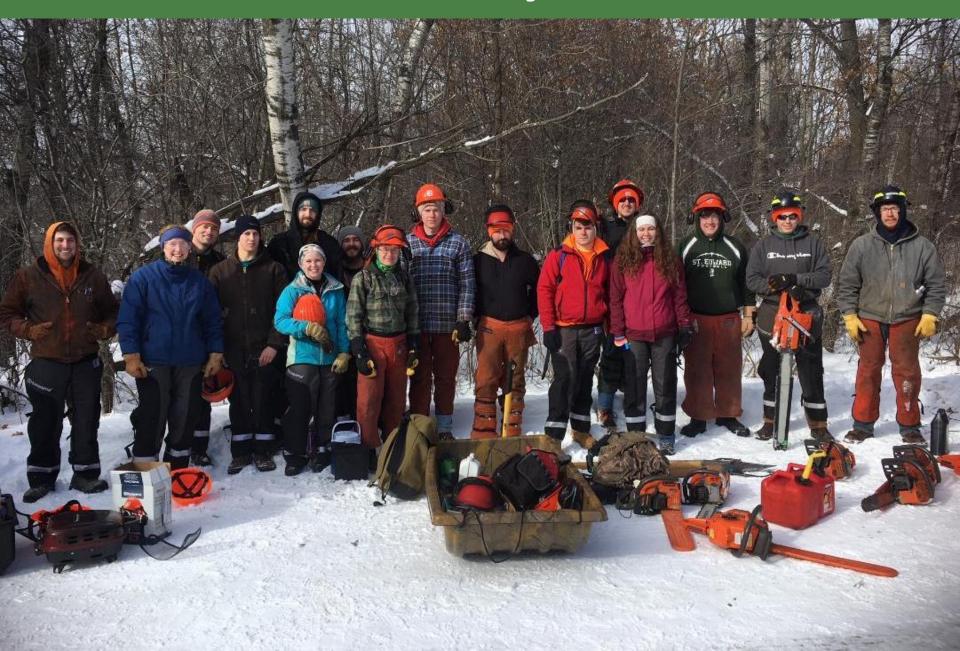
Upland Grassland Restoration



Upland Forest Restoration



UWSP Forestry Students



Pine and Oak Barrens

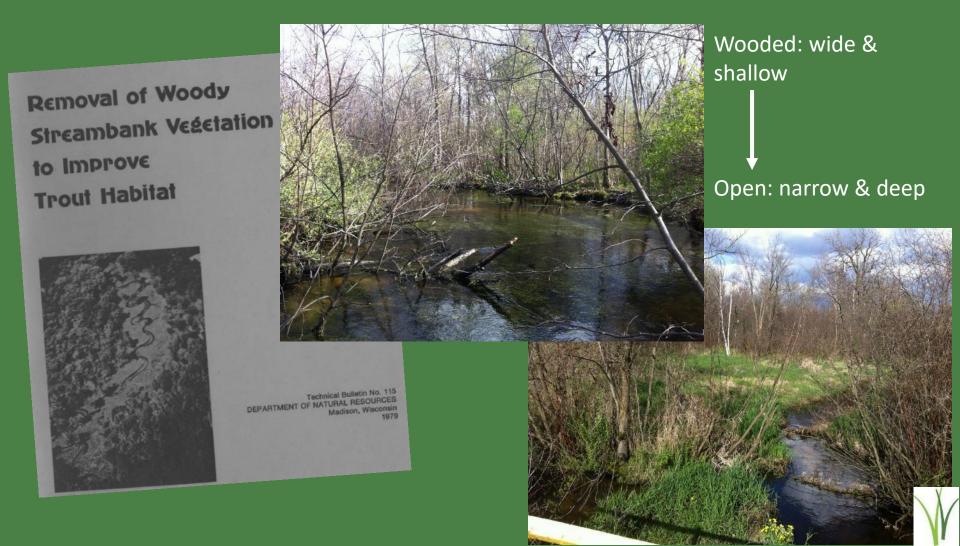


Thinning and Invasives Removal

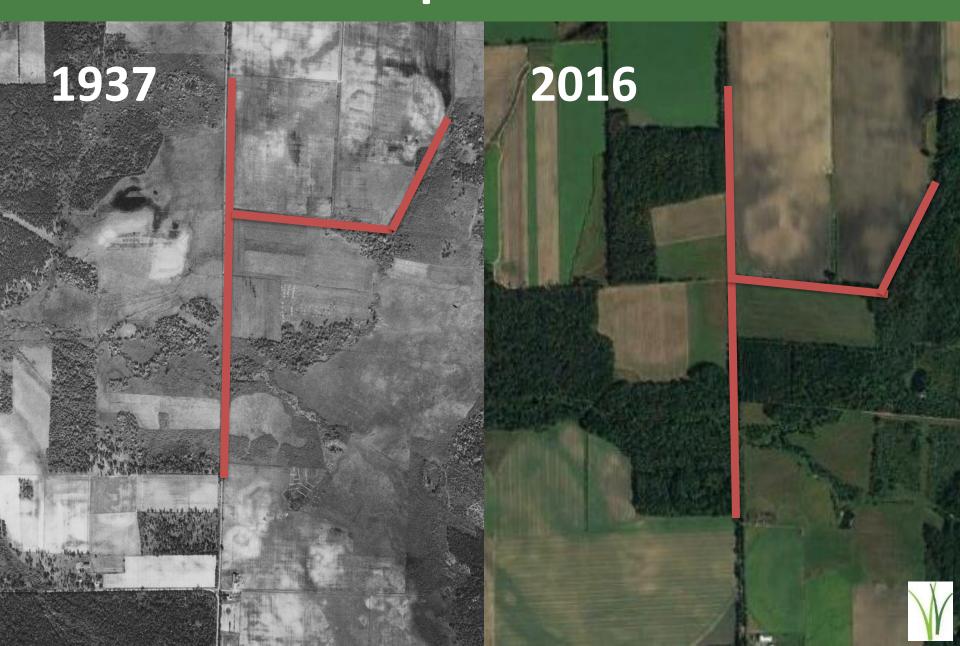




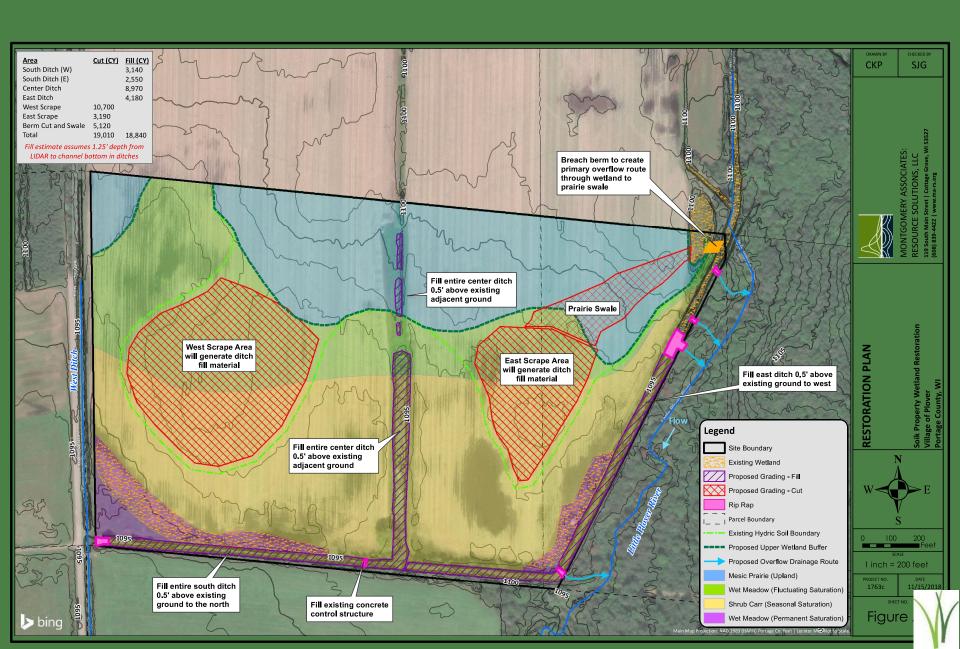
Channel & Floodplain Restoration



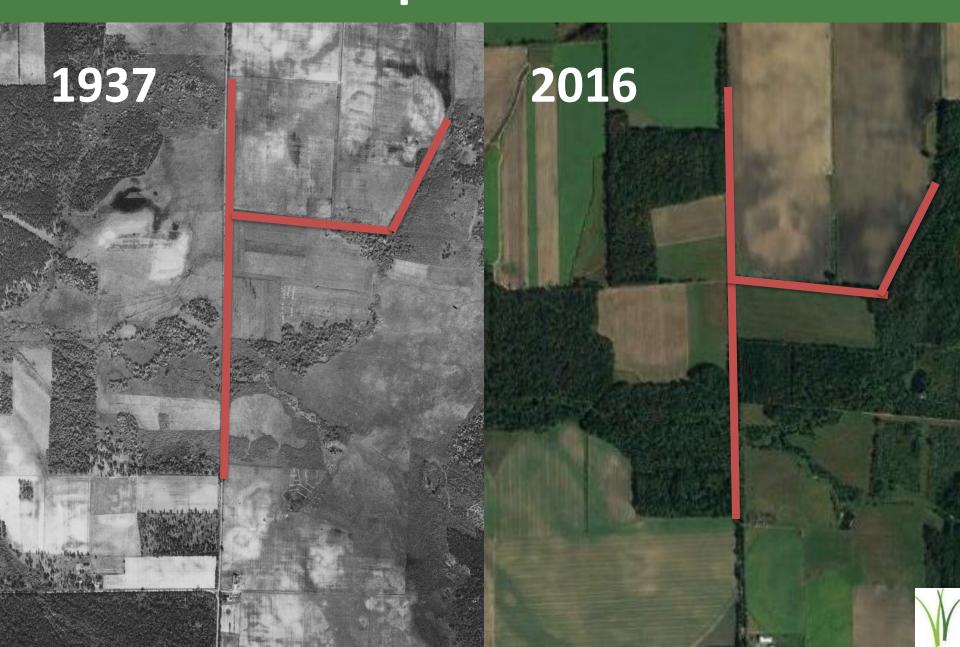
Historical Perspective - Wetlands



Wetland Restoration - Soik



Historical Perspective – Flow Paths



Soik Property – Ditch Fill

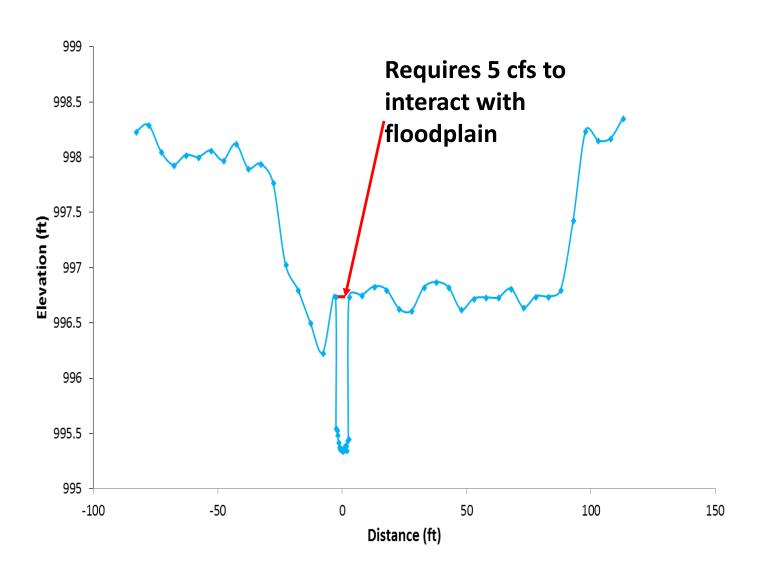




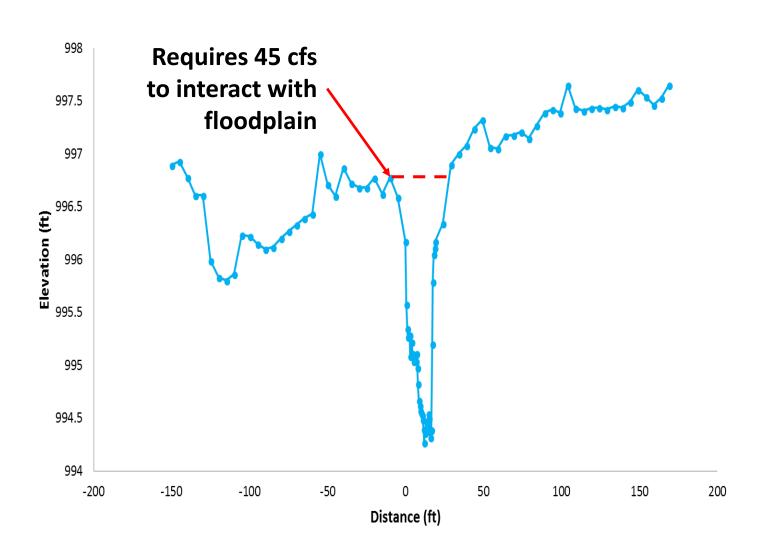
Channel Width – Floodplain Disconnection

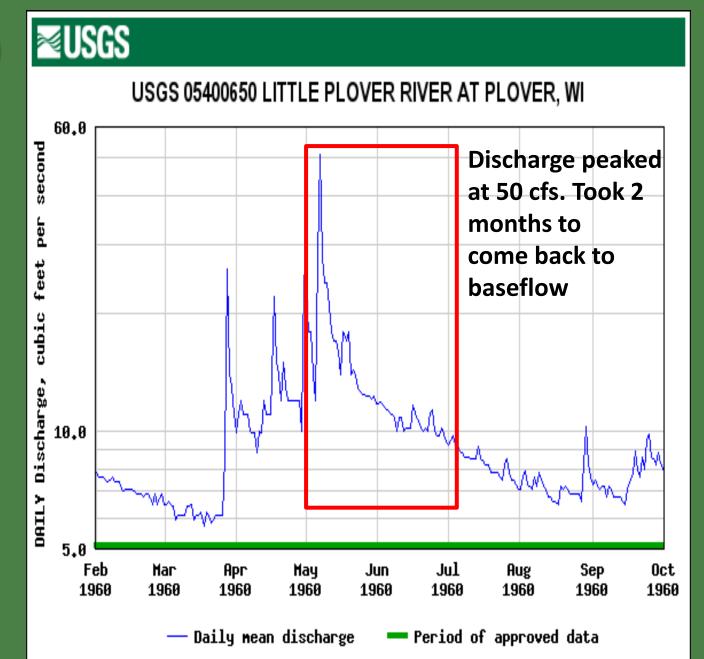


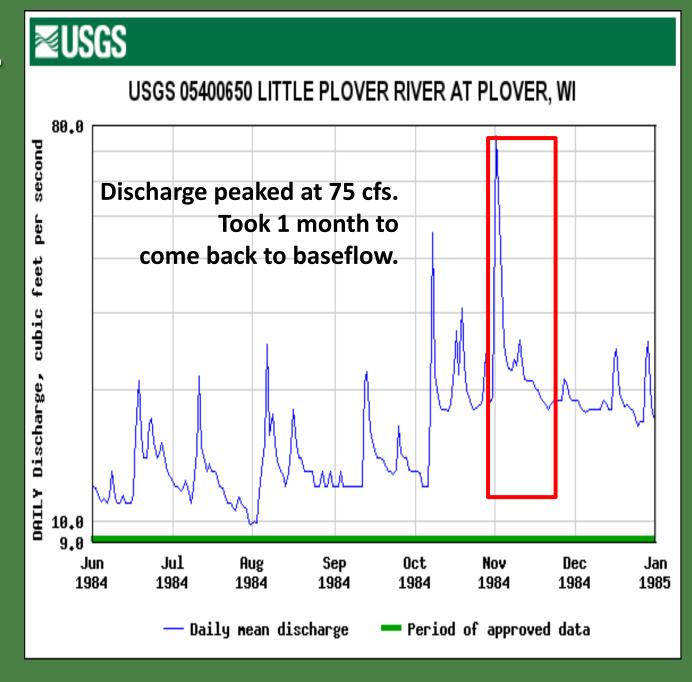
Channel Shape East of Kennedy

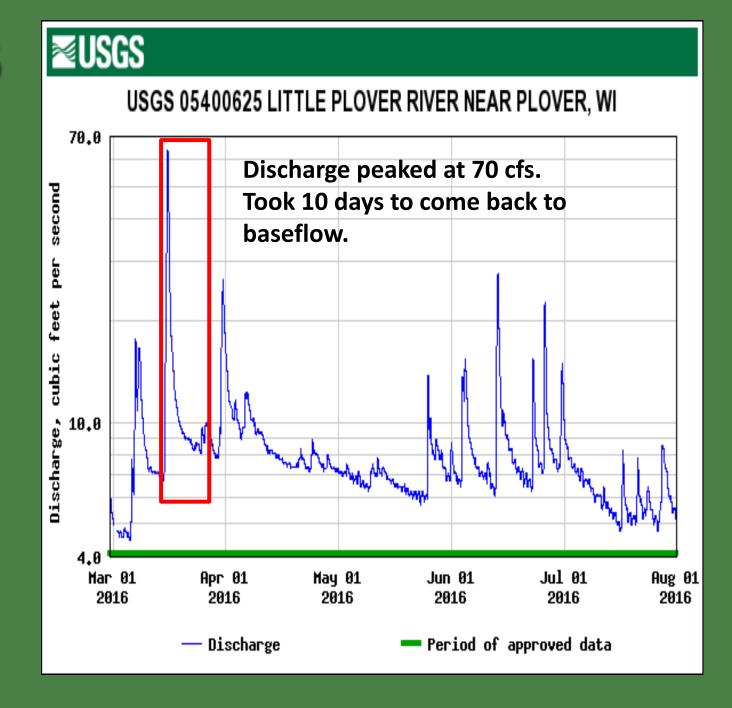


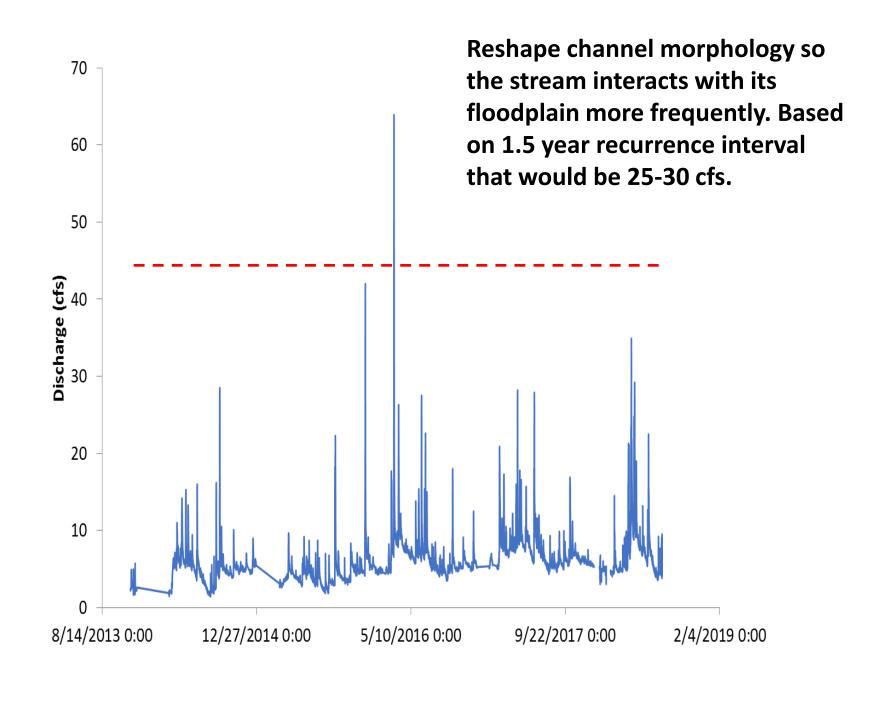
Channel Shape West of Kennedy



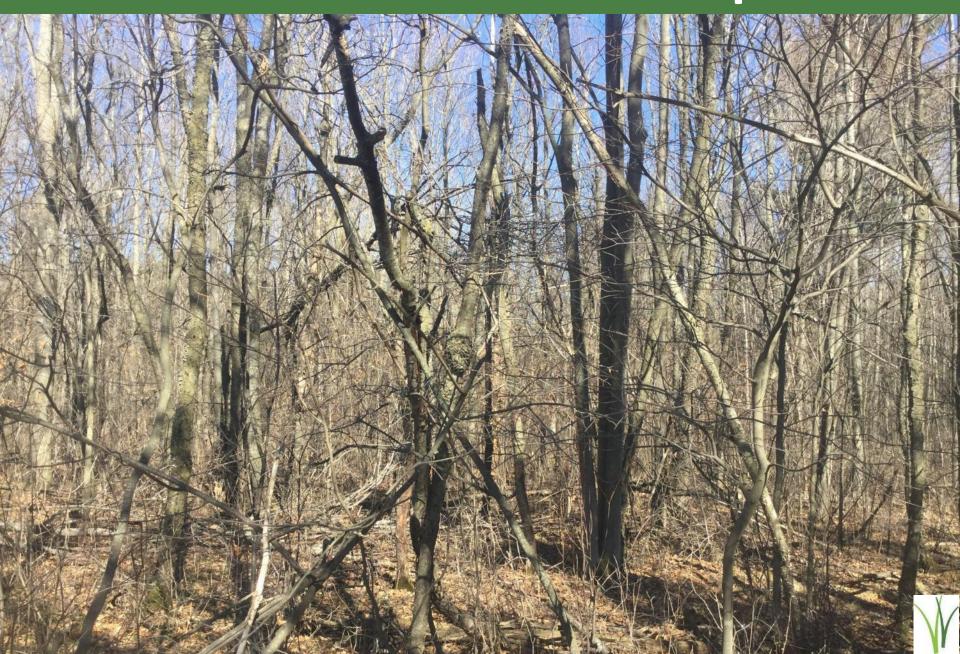




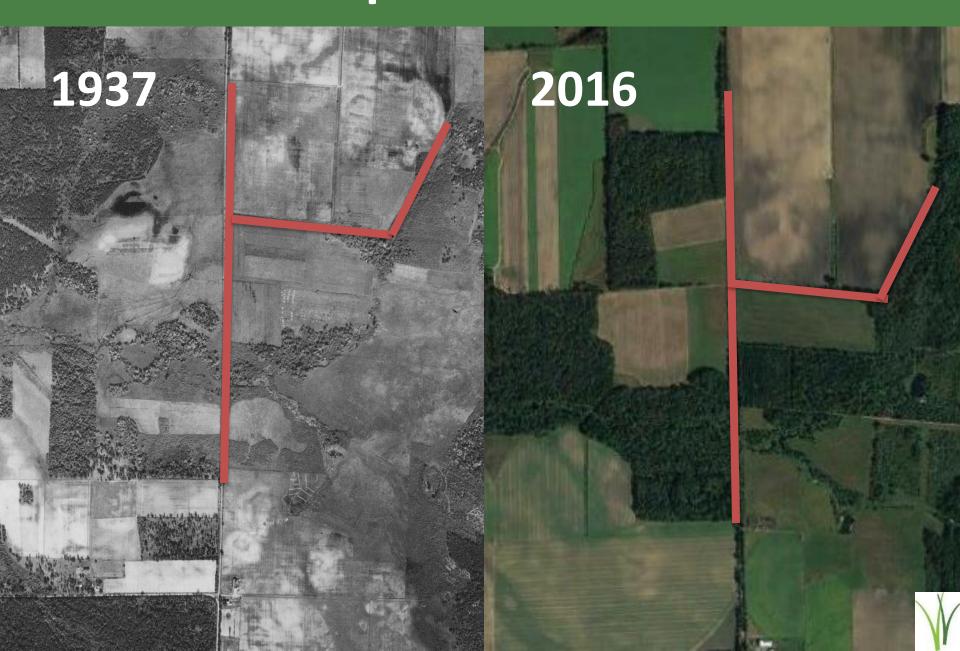




Forest Restoration – Floodplain



Historical Perspective - Forest Habitat



Main Channel – Alder Removal



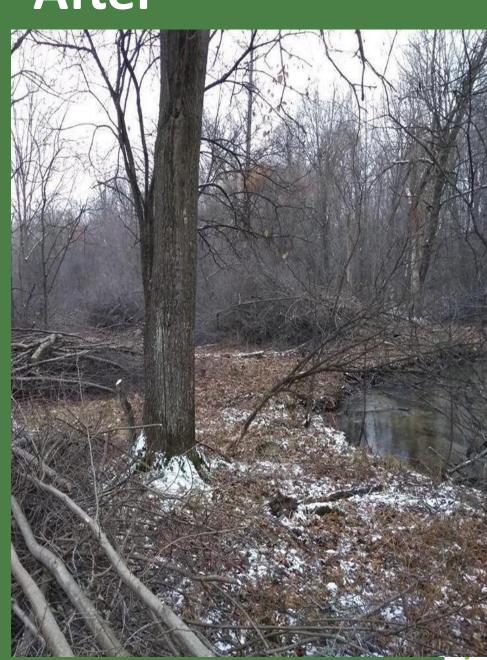
Main Channel – Volunteer Work Days



Before

After

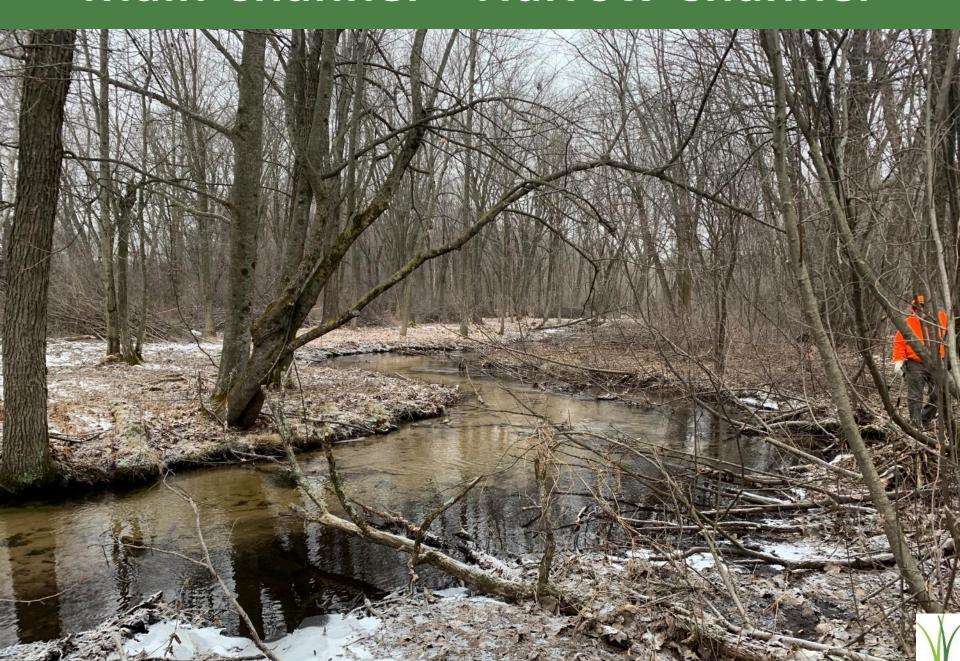




Main Channel – Alder Bundling



Main Channel – Narrow Channel



Thank You!

LPRWEP Partners:

Village of Plover

Portage County

WPVGA WWA WWF MARS WDNR UWSP

