Introduction to Lake County Wetland Restoration and Preservation Plan ("WRAPP") Decision Support Tool







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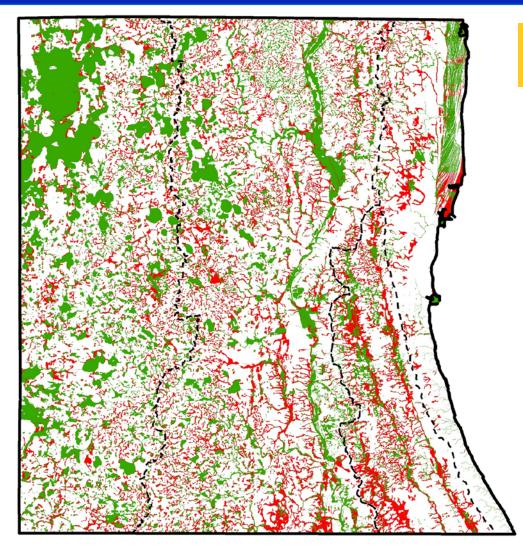
Glenn Westman

PSCC Annual Meeting March 5, 2021





WRAPP GIS Mapping Results



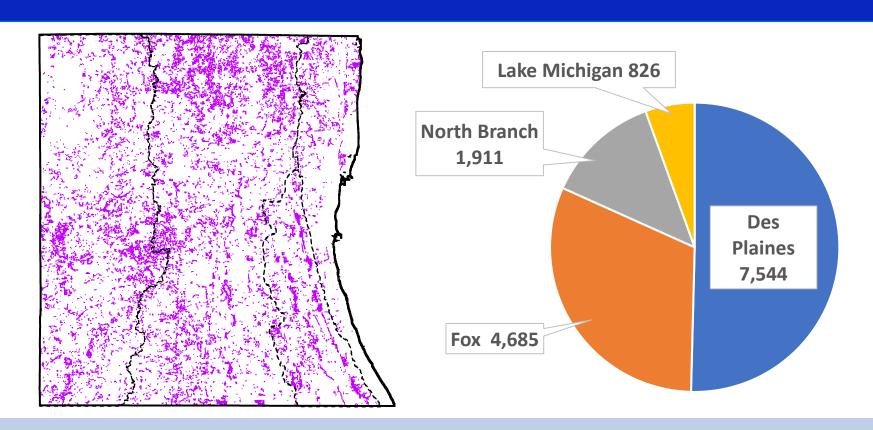
Countywide Results

- 84,899 acres of historic wetland
- 37,825 acres of existing wetland
- 55% Loss of Wetland (47,074 acres loss)

Existing Wetlands & Waters Wetland/Water Loss



Potentially Restorable Wetlands (PRWs)



14,966 acres County-wide ~18% of Pre-settlement wetland acres



To provide a wide audience of end-users with decision-making support to help prioritize wetland restoration and preservation efforts.



What the WRAPP does NOT do:

- Impose new development regulations
- Establish new protections for wetlands
- Recommend land acquisition or zoning changes
- Replace the need for a site-specific wetland delineation



Wetland Functions 13 Functions Selected with TAG Input

Hydrologic Functions	Biodiversity Functions	Water Quality Functions
Flood Water Storage	Native Fish Habitat	Nutrient Transformation (P-focus)
Stream Baseflow	Waterfowl Habitat	100037
Maintenance		Sediment & Other
	Other Wetland-dependent Bird Habitat	Particulate Retention
	Woodland Amphibian Habitat	Shoreline/Stream Bank Stabilization
	Unique Wetland Resources	Carbon Sequestration
	Stream Shading	
	Wildlife Movement Corridors	6

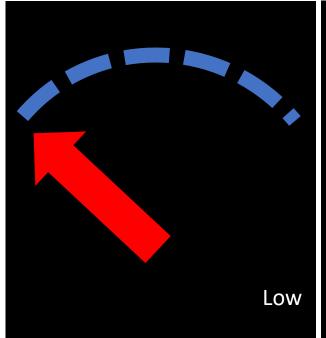


Wetland/Water Body Functions Functional Significance Ratings

- Relative measure (comparing wetlands/ water bodies to each other)
- Qualitative levels used, without regard to social values or quantitative limits.

"High" simply means
"performing process at a
better/higher rate than other
wetlands in the area"

Wortman & Ashby, 2014









N/A

Wetland/Water Body Functions Functional Assessment Criteria

Flood Water Storage	High	 Wetlands & waters associated with a mapped special flood hazard area, excluding slope wetlands Terrene basins with > 0.75 acre-feet of storage Throughflow & Throughflow-Intermittent ponds and associated basin, fringe, and island wetlands Polygons identified as stormwater basins
	Moderate	 Wetlands & waters that intersect the USGS flood of record not already rated High Wetlands & waters associated with rivers, streams, and lakes with no mapped FEMA floodplain or outside of the mapped floodplain and not already rated high Flat wetlands outside of mapped floodplains All remaining Ponds not already ranked high or moderate Remaining fringe and island wetlands and remaining Lentic and Lotic wetlands Remaining Basin wetlands that are isolated or impounded and not slough wetlands
	Low	 Remaining wetlands that are not slope wetlands, including slough wetlands Slope wetlands within FEMA 100 or 500 yr floodplain

All remaining Slope wetlands



Decision Support Tool ("DST")

Navigating the On-Line Mapping Tool





DST Title Page

Lake County Wetland Restoration and Preservation Plan ("WRAPP")

Decision Support Tool ("DST") DRAFT Version 1.0

The WRAPP-DST is designed to provide a wide audience of end-users with an easy-to-use, interactive mapping tool to assist in identifying and prioritizing wetlands in Lake County, Illinois, for restoration or preservation. It integrates digital map data with other resource information to display the approximate extent of existing wetlands and water bodies and Potentially Restorable Wetlands ("PRW") in the county and characterizes these features according to their type/classification and the relative level to which they provide a variety of functions/services.

<u>Limitations:</u> The WRAPP is a county-wide planning effort that provides preliminary information suitable for initial site screening purposes. It does not provide the level of detail required to make definitive statements on the viability of a particular PRW. Whether or not a PRW indentified by the WRAPP is viable will depend on site-specific characteristics, landowner interest, agency funding/priorities and other factors.

<u>Disclaimer:</u> The WRAPP-DST is not designed to be prescriptive. It is intended to be a *planning tool* to help users identify and prioritize wetland restoration or preservation efforts based on their specific goals and objectives. The WRAPP does not create any additional regulation or natural resource protections, does not replace the need for site-specific wetland delineations or jurisdictional determinations, and does not recommend any land acquisition or zoning changes. SMC does not warranty or guarantee the accuracy of existing wetland and water body or PRW map units in the DST, due to the county-wide scale at which the mapping was produced as well as changes in land use or landscape modifications since the mapping was completed.

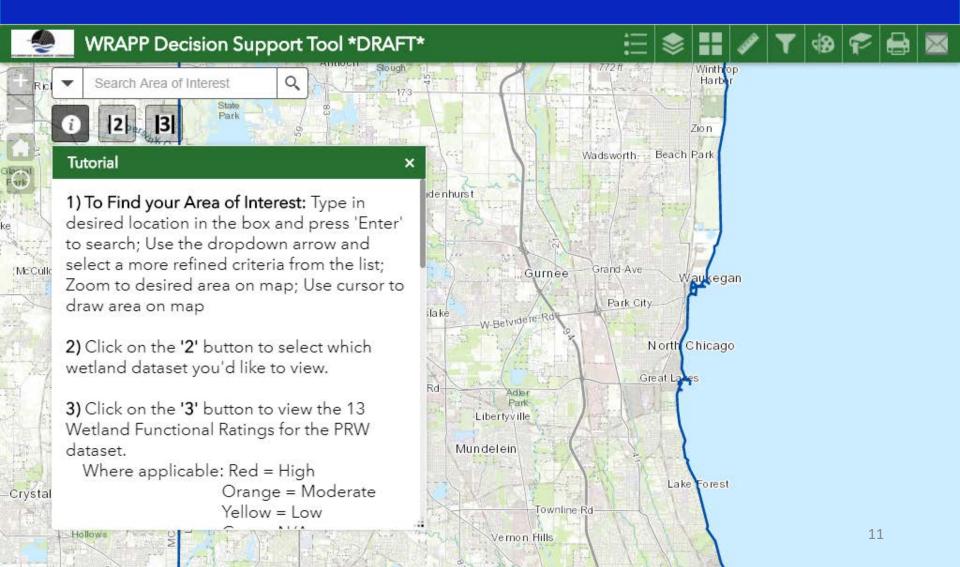






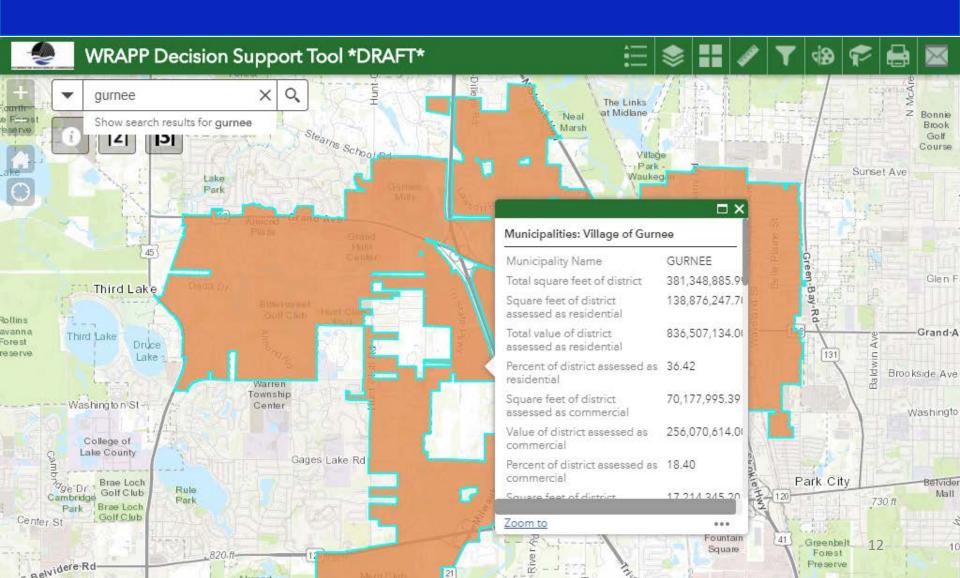


DST Landing Page



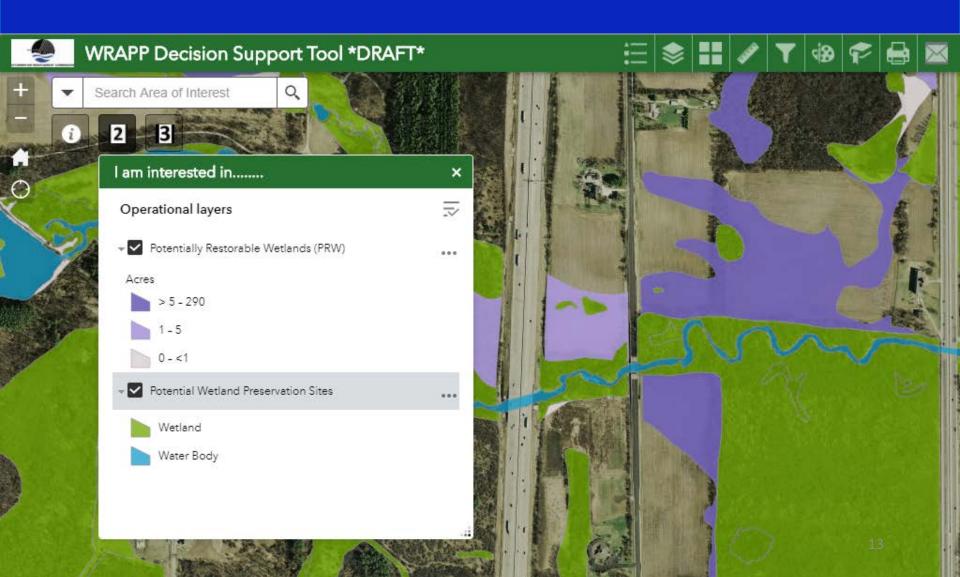


Area of Interest Search



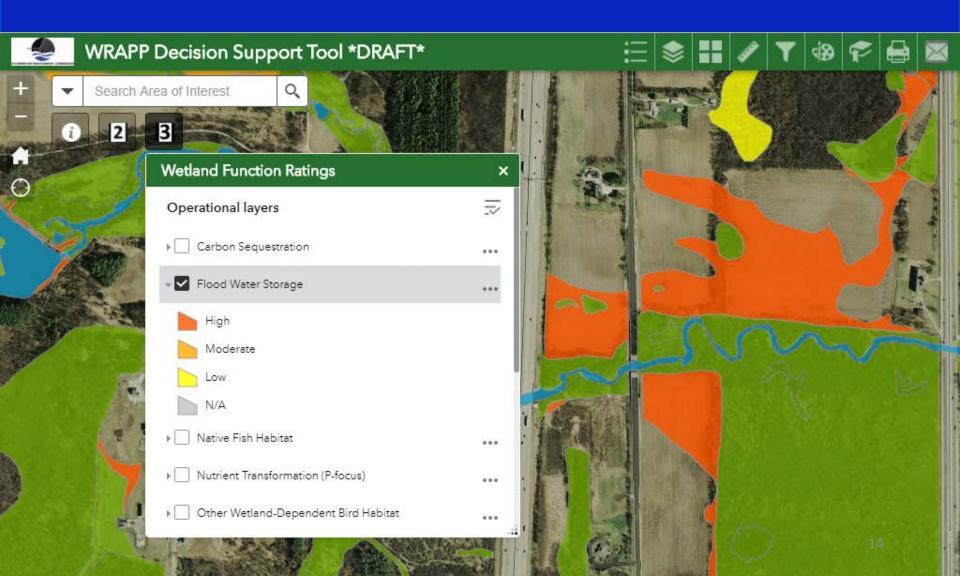


Potential Restoration & STORMWATER MANAGEMENT COMMISSION Preservation Sites



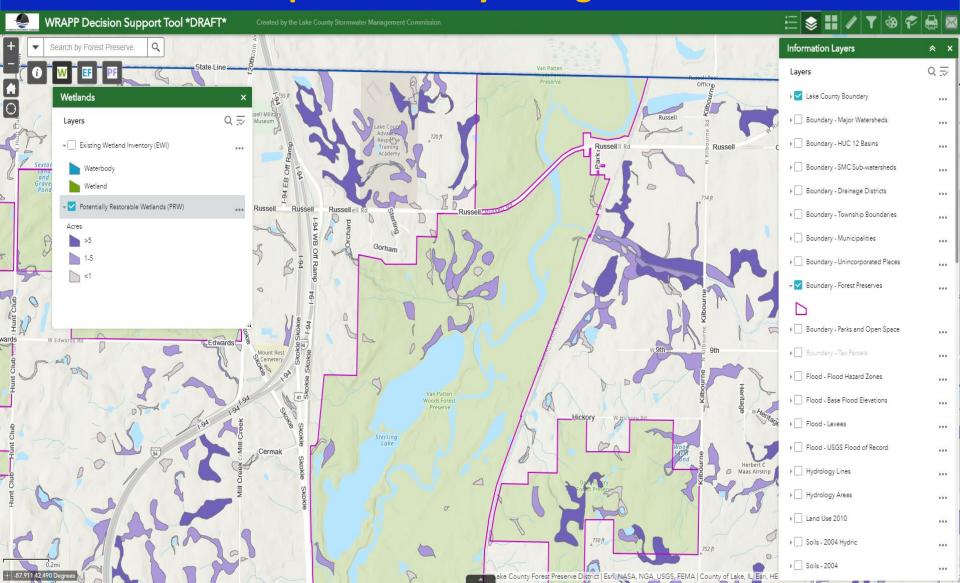


Functional Significance (PRWs)



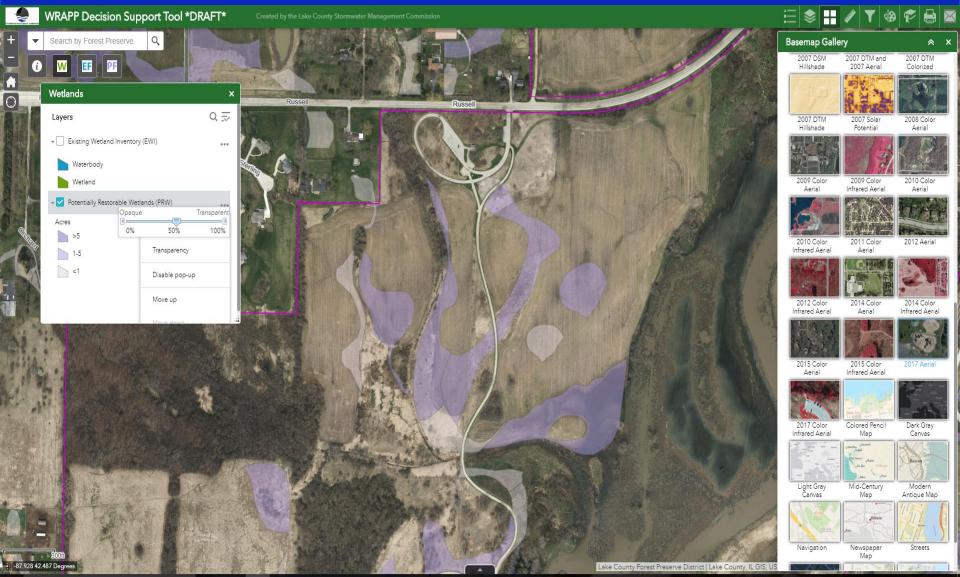


Using the WRAPP-DST Example – LCFP Hydrologic Restoration



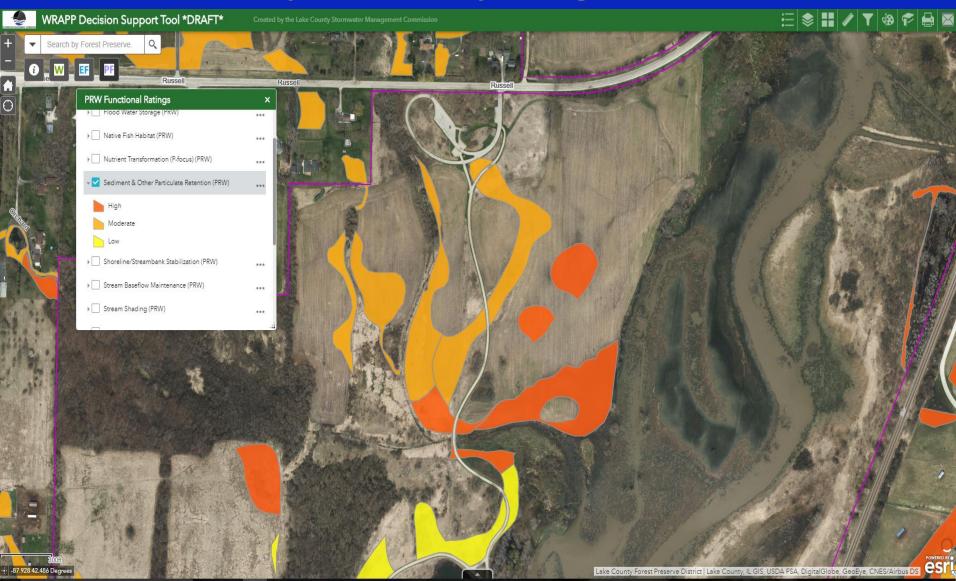


Using the WRAPP-DST Example – LCFP Hydrologic Restoration





Using the WRAPP-DST Example – LCFP Hydrologic Restoration





Thank You for Attending!

