

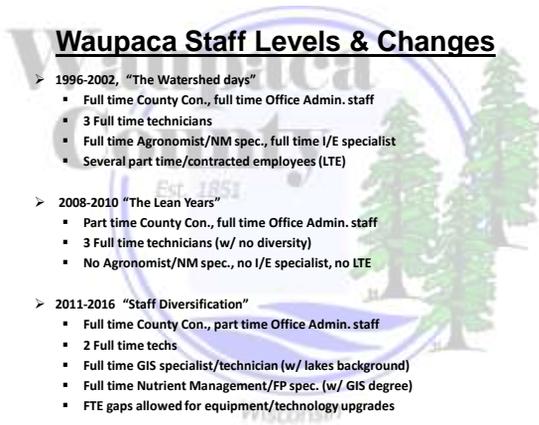
Waupaca County Land and Water Resource Management Plan 2012 – 2021

April 5th, 2016 LWCB Review



Presentation Agenda

- Human Resource Element
- BMP Accomplishments During the First 4 Years of the 2012-2021 LWRM Plan
- Farmland Preservation
- Unexpected Opportunities



Waupaca Staff Levels & Changes

- 1996-2002, "The Watershed days"
 - Full time County Con., full time Office Admin. staff
 - 3 Full time technicians
 - Full time Agronomist/NM spec., full time I/E specialist
 - Several part time/contracted employees (LTE)
- 2008-2010 "The Lean Years"
 - Part time County Con., full time Office Admin. staff
 - 3 Full time technicians (w/ no diversity)
 - No Agronomist/NM spec., no I/E specialist, no LTE
- 2011-2016 "Staff Diversification"
 - Full time County Con., part time Office Admin. staff
 - 2 Full time techs
 - Full time GIS specialist/technician (w/ lakes background)
 - Full time Nutrient Management/FP spec. (w/ GIS degree)
 - FTE gaps allowed for equipment/technology upgrades



Relationships

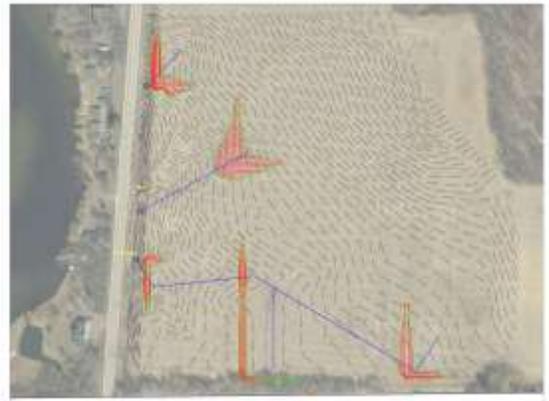
- Natural Resource Conservation Service (NRCS)
 - Historically close working relationship
 - LWCD & NRCS co-located prior to 1997
 - NRCS only moved across street (FSA joined them)
 - LWCD/NRCS cooperate very closely to achieve WQ goals
 - Use staff diversity to our advantage
- County Planning & Zoning
 - Prior to 2011, CC & Zoning Admin. did not cooperate
 - New staff 2011/2012 (CC, ZA, Planner)
 - Very cooperative (FP, permitting, shore land zoning, mitigation)
- Land & Water Conservation Committee (LWCC)
 - 83% turnover since April 2012
 - Geographically more diversified in county
 - Much higher level of interest in WQ, new ideas.

Summary of Staff Hours & Cost-Share Funds Needed To Implement 2012-2021 LWRM Plan

Goal	Annual Staff Time & Cost	Annual Cost-Share Funds Needed	Total Funds Total
A. Implementation of Performance Standards	4480 Hours \$755,130	\$574,000	\$714,000
B. Implementation of Watershed Management Standards	150 hours \$4,000	Included in Goal A or Goal C	\$4,000
C. Watershed Preservation Compliance	2400 Hours \$84,100	Included in Goal A	\$84,100
D. Greenhouse & Bare Soils	80 Hours \$2,000	\$1,000	\$1,000
E. Permit and Ordinance Administration	1700 Hours \$45,150	Included in Goal A	\$45,150
F. Lake and Stream Protection	1200 Hours \$8,000	Included in Goal A	\$8,000
G. Watershed Protection	18 Hours \$500	N/A	\$500
H. Program Evaluation and Monitoring	100 Hours \$5,415	N/A	\$5,415
I. Sporting / Recreational of State Open Space Funds	400 Hours \$10,000	N/A	\$10,000
J. Fishery Management	210 Hours \$23,000 \$9,000	\$5,000	\$11,000
K. Informational Education Strategy	200 Hours \$4,000 Budget	N/A	\$4,000
Totals	8714 Hours \$1461,595	\$683,000	\$834,000

A. Implementation of Agricultural Performance Standards (NR 151) for Farms

Goal / Priority Item	Priority Item	Priority Item	Priority Item	Priority Item	Priority Item	Priority Item	Priority Item
Goal 1: Implement and improve the quality of surface water resources	Priority Item 1: Riparian Zone Management	Priority Item 2: Wetland Management	Priority Item 3: Stream Bank Stabilization	Priority Item 4: Sediment Management	Priority Item 5: Nutrient Management	Priority Item 6: Pesticide Management	Priority Item 7: Erosion Control
Goal 2: Implement and improve the quality of groundwater resources	Priority Item 8: Groundwater Protection	Priority Item 9: Wellhead Protection	Priority Item 10: Groundwater Monitoring	Priority Item 11: Groundwater Remediation	Priority Item 12: Groundwater Recharge	Priority Item 13: Groundwater Conservation	Priority Item 14: Groundwater Restoration
Goal 3: Implement and improve the quality of land resources	Priority Item 15: Land Use Planning	Priority Item 16: Farmland Preservation	Priority Item 17: Soil Conservation	Priority Item 18: Forest Management	Priority Item 19: Wetland Conservation	Priority Item 20: Riparian Zone Conservation	Priority Item 21: Stream Bank Conservation





Nutrient Management Planning

- 2011 - 37,535 ac, 62 plans
- 2012 - 40,890 ac, 73 plans
- 2013 - 42,819 ac, 80 plans
- 2014 - 40,363 ac, 70 plans
- 2015 - 49,325 ac 91 plans

- Increased acreage by 31% during this LWRM plan
- 2015 equaled 23% of 2012 agricultural census area.
- NMP Farmer Training up 300% in 2016.

D. Farmland Preservation Conservation Compliance

Organization (Priority Items listed)	Actions (Priority Items listed)	Who Lead (Agency Name)	When	Start & other costs (LCR)	Anticipated annual revenues	F & E Goals
Regional economic foundation	Monitor compliance of WRM, the existing NMP contracts, and create policy.	WISCONSIN DNR	2011-2014	\$0	\$0	WISCONSIN DNR
	Update the Wisconsin County Farmland Preservation Program (FPP) plan	Planning/ zoning WISCONSIN DNR	2012-2013	\$0	\$0	WISCONSIN DNR
	WARM up to provide compliance for new FPP needs.	Planning/ zoning WISCONSIN DNR	2014-2015	\$0	\$0	WISCONSIN DNR
	Act on WRM, WARM, and other programs for WRM.	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR
Private landowner foundation	Engage in limited per hectare conservation easements through Wisconsin County CH 91 contracts.	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR
	Support FPP, easements & engage in conservation easements through Wisconsin County CH 91 contracts.	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR

Farmland Preservation Planning



- All towns participated in original 1981 plan
- Plan based on soils, existing ag. lands & land owner preference
- No zoning used, all agreement based FP
- 2002---200+ agreements active
- 2015--- 24 agreements active
- 2013 Waupaca due for FP Plan revision



- Started FP planning in 2012 just prior to LWRM
- New plan based on 2007 Comp Plan & 2010 Zoning revision
- Some towns more detailed PLU than others
- All towns mentioned Ag Preservation, not all meant it or mapped it.
- 2010 Zoning map very consistent with 2007 PLU
- DATCP would later view 4 zoning districts as nearly CH 91 compliant

FPP Challenges



- Planning Staff turnover
- Oct 2012 Steering Committee had a "Base Tract & Density Revolt"
- Feb 2013 ATCP 49 hearing "Light Bulb" moment
- March 2013 started over with Overlay
- Uses existing Comp Plans & makes existing Zoning Districts CH 91 compliant
- No mass rezone
- Eliminates landowner preference
- Completed Plan Oct 2014 & Overlay June 2015

D. Groundwater and/or Forest Coverage

Organization (Priority Items listed)	Actions (Priority Items listed)	Who Lead (Agency Name)	When	Start & other costs (LCR)	Anticipated annual revenues	F & E Goals
Wisconsin Dept of Natural Resources (Priority Items listed)	Provide cost-share contracts to landowners	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR
	Develop WRM with no WRM	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR
Private landowner foundation	Provide ground-water easements to landowners	WISCONSIN DNR	2011-2015	\$0	\$0	WISCONSIN DNR



City of Waupaca Wellhead

- Wells #5/#6 Increasing N
- City had previously used crop rotation & spreading contracts within recharge
- New Wellhead Protection Nitrate Initiative w/ WDNR, WI L&W, local gov
- New GW recharge area study occurring
- LWCD to address ag waste issue, facilitate NMP's & assist with advanced soil testing.

F. Lake and Stream Protection Initiatives protection & invasive species management

Issue/Problem (Flow #/Stream/ Lake)	Initiative (Priority/Status/Type)	Who/Lead Agency (W/)	When	Start & other costs (LWCD only)	Anticipated annual outcomes	T & E Goals
Reduce non-point source runoff, sedimentation, and erosion; improve riparian habitat and water quality	Watershed Assessment and Analysis; Riparian Zone Assessment; Riparian Zone Rehabilitation; Riparian Zone Planting	LWCD; DNR; Waupaca; Waubesa; Waubesa; Waubesa; Waubesa	Annually	\$100,000 (LWCD)	Reduce non-point runoff; improve riparian habitat; increase water quality	Watershed Assessment and Analysis; Riparian Zone Assessment; Riparian Zone Rehabilitation; Riparian Zone Planting
Reduce herbicide application and use of herbicides for weed control	Herbicide Application Reduction; Herbicide Application Reduction	LWCD; DNR; Waupaca; Waubesa; Waubesa; Waubesa	Annually (W/)	\$100,000 (LWCD)	Reduce herbicide application; reduce use of herbicides for weed control	Watershed Assessment and Analysis; Riparian Zone Assessment; Riparian Zone Rehabilitation; Riparian Zone Planting
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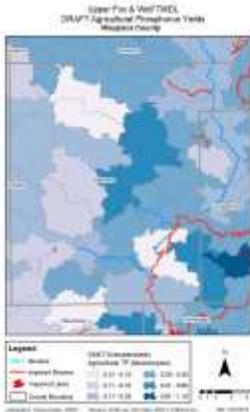
Lake & Stream Protection

- Partnered w/ Golden Sands RC&D to create 1st AIS Plan - 2012
- County Rain Garden Fund (ATC) to C/S Rain Gardens
- Began countywide shoreline inventory - 26 lakes to date
- DNR Healthy Lakes Initiative
- Central WI stream flow & lake level monitoring
- P/Z shoreline mitigation

G. Watershed Protection (i.e. Phosphorous reduction, TMDL, MDV cover management)

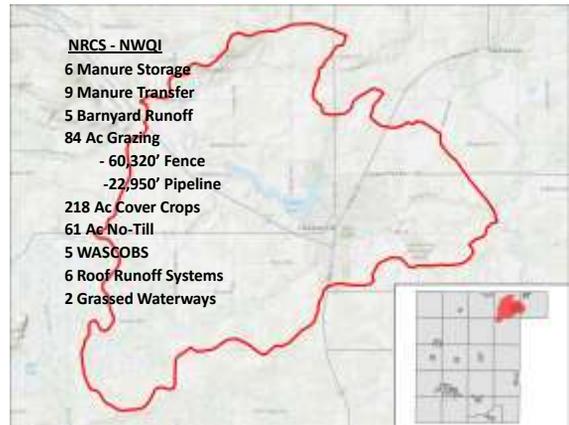
Watershed protection (i.e. phosphorus reduction/ trading, TMDL implementation, nitrogen management, and other adaptive management strategies, and currently not prioritized for our staff and programs, but could be a larger part of our programs in the future. While not priority actions, we will remain open to the opportunity to participate in these programs if the opportunity arises.

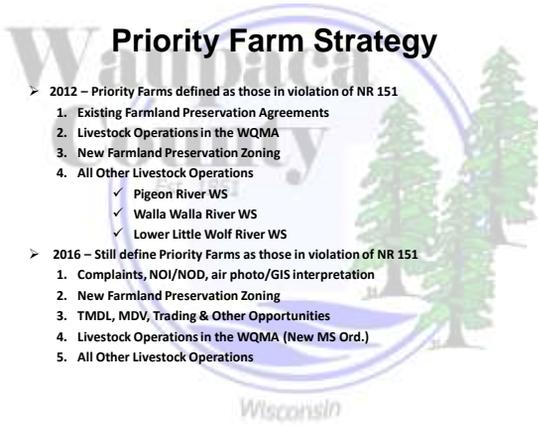
Issue/Problem (Flow #/Stream/ Lake)	Initiative (Priority/Status/Type)	Who/Lead Agency (W/)	When	Start & other costs (LWCD only)	Anticipated annual outcomes	T & E Goals
Reduce phosphorus loading to the lake	Phosphorus Loading Reduction; Phosphorus Loading Reduction	LWCD; DNR; Waupaca; Waubesa; Waubesa; Waubesa	Annually	\$100,000 (LWCD)	Reduce phosphorus loading; improve water quality	Watershed Assessment and Analysis; Riparian Zone Assessment; Riparian Zone Rehabilitation; Riparian Zone Planting
Reduce phosphorus loading to the lake	Phosphorus Loading Reduction; Phosphorus Loading Reduction	LWCD; DNR; Waupaca; Waubesa; Waubesa; Waubesa	Annually	\$100,000 (LWCD)	Reduce phosphorus loading; improve water quality	Watershed Assessment and Analysis; Riparian Zone Assessment; Riparian Zone Rehabilitation; Riparian Zone Planting



Watershed Protection

- Upper Fox & Wolf TMDL 2017
- Multi Discharger Variance (MDV)
- 9 Key Element Planning
- Phosphorous Trading





Priority Farm Strategy

- **2012** – Priority Farms defined as those in violation of NR 151
 1. Existing Farmland Preservation Agreements
 2. Livestock Operations in the WQMA
 3. New Farmland Preservation Zoning
 4. All Other Livestock Operations
 - ✓ Pigeon River WS
 - ✓ Walla Walla River WS
 - ✓ Lower Little Wolf River WS
- **2016** – Still define Priority Farms as those in violation of NR 151
 1. Complaints, NOI/NOD, air photo/GIS interpretation
 2. New Farmland Preservation Zoning
 3. TMDL, MDV, Trading & Other Opportunities
 4. Livestock Operations in the WQMA (New MS Ord.)
 5. All Other Livestock Operations



Future Projects

- **Re-write County MS Ordinance**
 - 2005 version written mostly as a construction ordinance
 - NR 151 language is weak
 - Enforcement language poor (ex. NMP requirements)
- **Participation in new opportunities**
 - Multi Discharger Variance (MDV)
 - TMDL
 - P Trading
- **Update County Easement Ordinance**
 - Make Consistent with Comp Plan updates
 - Open up eligibility to more areas
- **Promote Farm Preservation**
 - Identified 2 potential AEA's

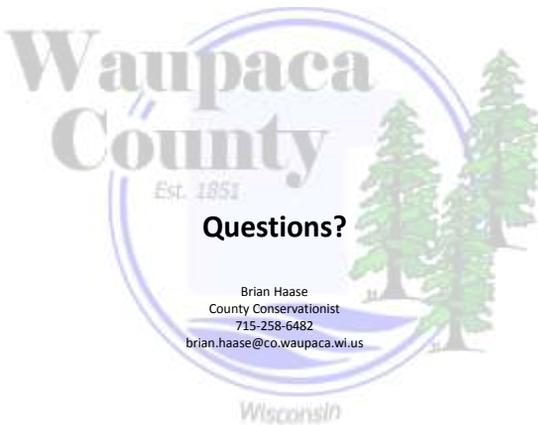
LWMR Plan Implementation Budget

The following information is based on the projected budget information available in 2017 to maintain the current 5 FTE. The projected average staff salary for the Waupaca County LWRC, with benefits, for 2017 is about \$30/Year. The table below assumes a 2% annual increase in salary and benefits package. If it was able to attract the Waupaca County LWRC to a 60% position that will mean that the 2017 position would be reduced from a 2000 hour per year employee to about 1200 effective working hours per year for our current employees. Based on the estimated total hours from the previous page the LWRC staff is currently 5.5 FTE, most of the staff needed to implement the goals and objectives of the plan. Current funding levels are as follows:

The following table is the total estimate of the budget needed to accomplish the goals of this plan assuming 5 FTE. Waupaca County will continue to utilize all available federal, state, county and private funds to accomplish the stated goals. Based on recent previous BMP funding it is often easier to secure Waupaca County LWRC staff will utilize approximately \$300,000 per year to implement various goals and objectives. This is based on recent averages of the LWRC grants annually totaling \$200,000. Local funding of \$200,000 and \$50,000 of annual (WQMA) State Cost Share Funds. It is important to note that without the proposed estimates of staffing and BMP grant activity, this plan will not be fully implemented in a timely manner.

	2010	2011	2014	2016	2018	Totals
Staff Costs	\$364,000	\$370,000	\$388,000	\$398,000	\$413,000	\$1,933,000
BMP Funding	\$542,000	\$550,000	\$581,000	\$592,000	\$603,000	\$2,868,000
Totals	\$906,000	\$920,000	\$969,000	\$990,000	\$1,016,000	\$4,801,000

	2010	2016	2018	2020	2021	Totals
Staff Costs	\$422,000	\$435,000	\$446,000	\$460,000	\$475,000	\$2,241,000
BMP Funding	\$542,000	\$550,000	\$581,000	\$592,000	\$603,000	\$2,868,000
Totals	\$964,000	\$985,000	\$1,027,000	\$1,052,000	\$1,078,000	\$5,108,000



Questions?

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