



Pepin County Land and Water Resource Management Plan

2011 – 2020

5 Year Extension Request

LCC & LCD Responsibilities

- Wisconsin State Statutes:
 - Chapters: 91, 92, 281, 295
- Land & Water Resource Management Plan (LWRM)
- Farmland Preservation – Working Lands Initiative (FPP)
- Non-point source runoff
- Manure Storage Ordinance
- Conservation Reserve Enhancement Program (CREP)
- Nonmetallic Mine Reclamation Ordinance (NMM)
- Wildlife Damage, Abatement & Claims Program
- Snowmobile Trail Program
- Environmental Education
- County Parks

Goal # 1: Protect and Enhance the Quality and Quantity of Our Water Resources

- Protect the quality of our surface water and ground water through proper nutrient mgmt = **average 11,000 acres/yr (400/yr)**
- Develop systematic approach to monitor and certify compliance with NR 151 = **avg 21 facilities/yr (15/yr)**
- Provide technical and financial assistance to install clean water BMP's = **avg 33 facilities/yr (15/yr)**
- Encourage buffers along surface water = **129,954ft (1,000ft new/yr)**
- Promote preservation and restoration of wetlands = **5 landowners (10/yr)**
- Provide info to public about GW Quantity = **13 monitoring sites, 241 individuals**
- Administration of Nonmetallic mining reclamation ordinance = **16 site eval/yr**



Goal # 2: Preserve and Maintain Our Valuable Soil Resources



- Provide technical/financial assistance to reduce gulley and rill erosion on cropland/woodlands = **avg 20 facilities/yr (10/yr)**
- Promote adequate soil conservation through proper crop rotation, use of cover crops, and contour buffer systems = **avg 11 facilities/yr (15/yr)**
- Encourage conservation practices to reduce streambank erosion = **avg 1,030ft/yr (300ft/yr)**
- Continue cropland conservation through compliance with NR 151 = **avg 21 facilities/yr (15/yr)**
- Provide technical/financial assistance to implement practices to reduce wind erosion = **avg 5 facilities/yr (15/yr)**
- Continue watershed protection PL-566 watersheds = **6 watershed structures/yr**
- Develop an approach to monitor compliance with maintenance agreements on c/s practices = **avg 8 sites/yr (15/yr)**
- Administration of Nonmetallic mining reclamation ordinance = **16 site eval/yr**

Goal #3: Promote a Positive Conservation Ethic

- Protect prime agricultural land through land use planning = **avg 12 landowner/yr (10/yr)**
- Inform public about conservation of natural resources = **avg 92 media releases/yr (25/yr)**
- Work w/conservation team partners to provide edu/technical assistance about sustainable logging practices = **248 individuals (5/yr)**
- Monitor and document conservation efforts = **database/maps maintained**
- Work with our conservation team partners to provide assistance with development and parcel fragmentation = **avg 12 landowners/yr (10/yr)**
- Work with conservation team partners to inform public about sustainable energy development = **0 individuals (5/yr)**
- Promote youth oriented conservation programs = **avg 1,230 students/yr (300/yr)**
- Maintain County Parks for recreational benefits = **avg 100 hrs/yr (60/yr)**



Goal #4: Protect and Enhance Diverse Wildlife Habitat



- Enhance, protect, and restore areas of wildlife habitat = **2 landowners (10/yr)**
- Provide annual tree sale program = **42,142 trees**
- Increase landowner awareness regarding rare and endangered species = **0 individuals (5/yr)**
- Provide educational materials and technical assistance for the control of invasive/exotic species = **avg 81 individuals/yr (20/yr)**
- Inform public about the role wetlands play in our ecosystem and promote protection/restoration = **240 individuals (5/yr)**
- Provide aeration to shallow lakes to prevent winter fish kills = **aeration system maintained**
- Continue to work with local Sportsman Clubs, TU, WU, Pheasants Forever and other organizations to promote habitat protection and restoration = **15 projects with organizations (5/yr)**

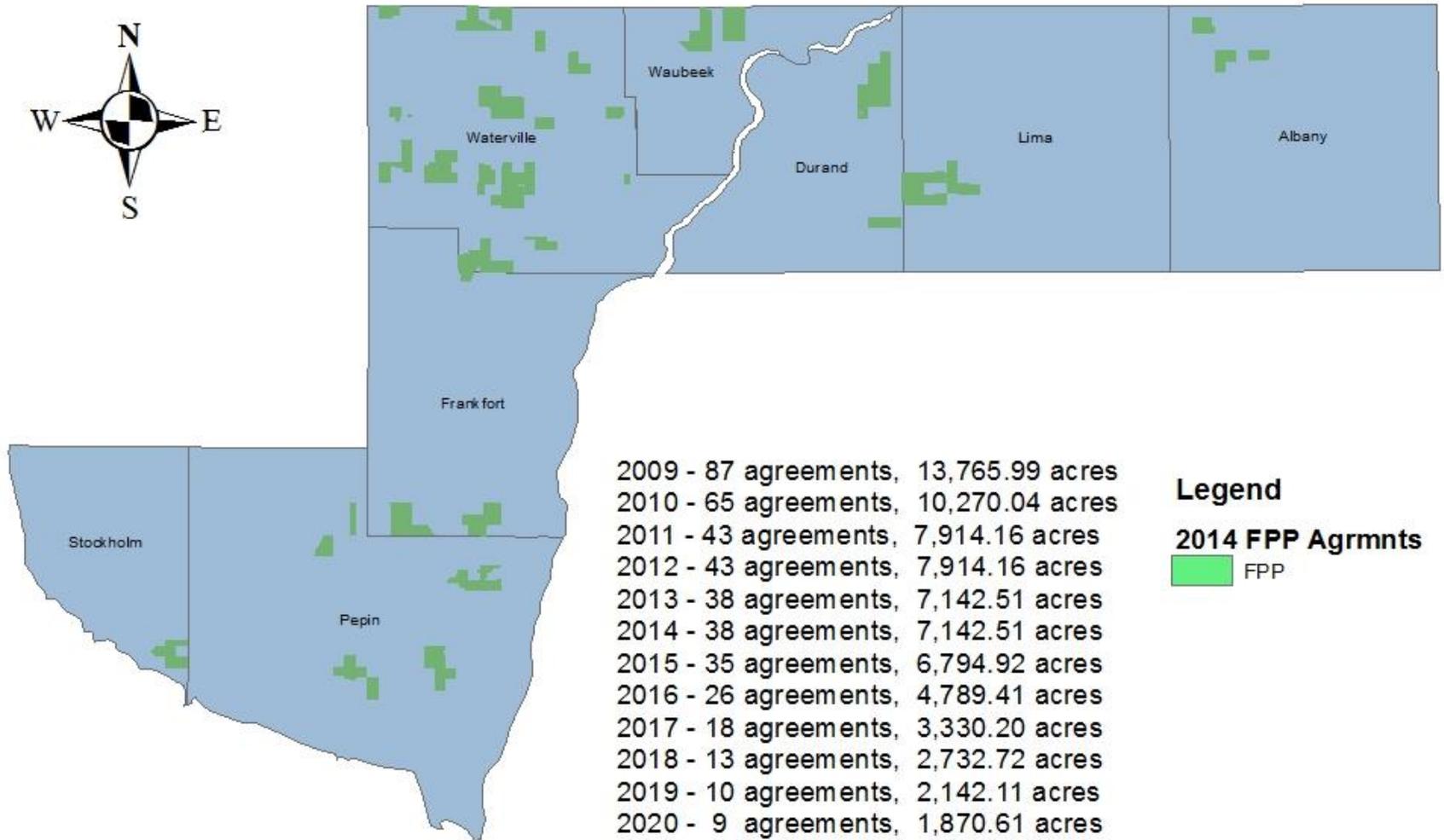
Pepin County Accomplishments 2011 – 2014 (2015)

Practice	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total	
Access Road			131.0		2.0			360.0	71.0	48.0	580.0		1192.0	Feet
CNMP			1.0		2.0								3.0	#
Coldwater Stream Program									1.0	1.0			2.0	#
Conservation Buffers (maintained)									38.0	62.0	64.0		NA	Acres
Conservation Buffers (new)			39.2	220.0				38.0	24.0	8.7			329.9	Acres
Conservation Cover			138.3										138.3	Acres
Conservation Crop Rotation		1356.2	723.2		780.7	100.3							2960.4	Acres
Contour Farming			420.5	21.0	21.0								462.5	Acres
CREP					8.1								8.1	Acres
Critical Area Treatment			4.0	1.0	5.0	3.0			6.0	2.0			21.0	#
Diversion			201.0						140.0				341.0	Feet
Field Border			7200.0										7200.0	Acres
Filter Strip			44.8						79.0	114.0			237.8	Acres
Grade Stabilization			10.0	3.0	5.0	4.0	5.0	5.0	3.0	2.0	5.0		42.0	#
Heavy Use				2.0					1.0	1.0			4.0	#
Invasive Species Program									4.0		3.0		7.0	#
Livestock Fencing			835.0		6163.0				1323.0				8321.0	Feet
Livestock Pipeline				1.0	1.0								2.0	#
Livestock Watering				1.0	1.0				1.0				3.0	#
Manure Storage			1.0	1.0									2.0	#
Manure Storage Closure				1.0			1.0	3.0		1.0			6.0	#
Manure Storage Permit				1.0		1.0	4.0	4.0	1.0	1.0			12.0	#
NMP Checklist					6787.3	3634.4	7534.9	11846.0	9724.9	9875.9	12179.8		NA	Acres
Nutrient Management Plan			1441.3		532.0	1351.4	544.1	393.0	230.0	673.7	589.5		5755.0	Acres
Obstruction Removal						2.0			4.0				6.0	#
Prescribed Grazing			900.0		19.9								919.9	Acres
Residue Management	1082.8		1154.0		78.1	100.3							2415.2	Acres
Roof Run-off System						1.0	2.0	2.0	1.0	1.0	1.0		8.0	#
Streambank Protection			400.0		350.0	490.0					580.0		1820.0	Feet
Tree/Shrub Establishment			11.3										11.3	Acres
Underground Outlet			350.0								40.0		390.0	Feet
Waterway			3.5	5.5	0.5	4.0	2.5	4.0	3.8	2.2	2.2	1.0	29.2	Acres
Well Abandonment					4.0		2.0	3.0	3.0	3.0	5.0	1.0	21.0	#
Wetland Creation			1.0										1.0	#
Wetland Restoration				1.0			1.0	1.0					3.0	#
Wildlife Habitat			143.2										143.2	Acres

YEAR	Cost share projects (LWRM, CCS, TRM)	Staff Costs* (County staff)	Totals
2011	\$ 73,230.00	\$ 174,475.00	\$247,705.00
2012	\$ 77,134.00	\$ 165,120.00	\$242,254.00
2013	\$ 59,430.00	\$ 179,934.00	\$239,364.00
2014	\$ 68,179.00	\$ 198,150.00	\$266,329.00
2015	\$ 82,000.00	\$ 202,110.00	\$284,110.00
2011-2015	\$ 359,973.00	\$ 919,789.00	\$1,279,762.00
2016	\$ 82,000.00	\$ 204,100.00	\$286,100.00
2017	\$ 82,000.00	\$ 210,225.00	\$292,225.00
2018	\$ 100,000.00	\$ 216,550.00	\$316,550.00
2019	\$ 100,000.00	\$ 223,050.00	\$323,050.00
2020	\$ 100,000.00	\$ 229,750.00	\$329,750.00
2016-2020	\$ 464,000.00	\$ 1,083,675.00	\$1,547,675.00
Total	\$ 823,973.00	\$ 2,003,464.00	\$ 2,827,437.00

* Assumes neither DATCP nor County will decrease funding. EQIP c/s and NRCS staff costs are not calculated in cost estimates to be consistent with other program benchmarks. EQIP and NRCS efforts are acknowledged and supplement LWRM goals and objectives.

2014 Farmland Preservation Agreements Pepin County, WI



2009	- 87 agreements,	13,765.99 acres
2010	- 65 agreements,	10,270.04 acres
2011	- 43 agreements,	7,914.16 acres
2012	- 43 agreements,	7,914.16 acres
2013	- 38 agreements,	7,142.51 acres
2014	- 38 agreements,	7,142.51 acres
2015	- 35 agreements,	6,794.92 acres
2016	- 26 agreements,	4,789.41 acres
2017	- 18 agreements,	3,330.20 acres
2018	- 13 agreements,	2,732.72 acres
2019	- 10 agreements,	2,142.11 acres
2020	- 9 agreements,	1,870.61 acres

Legend

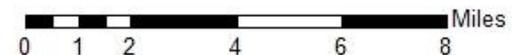
2014 FPP Agrmnts

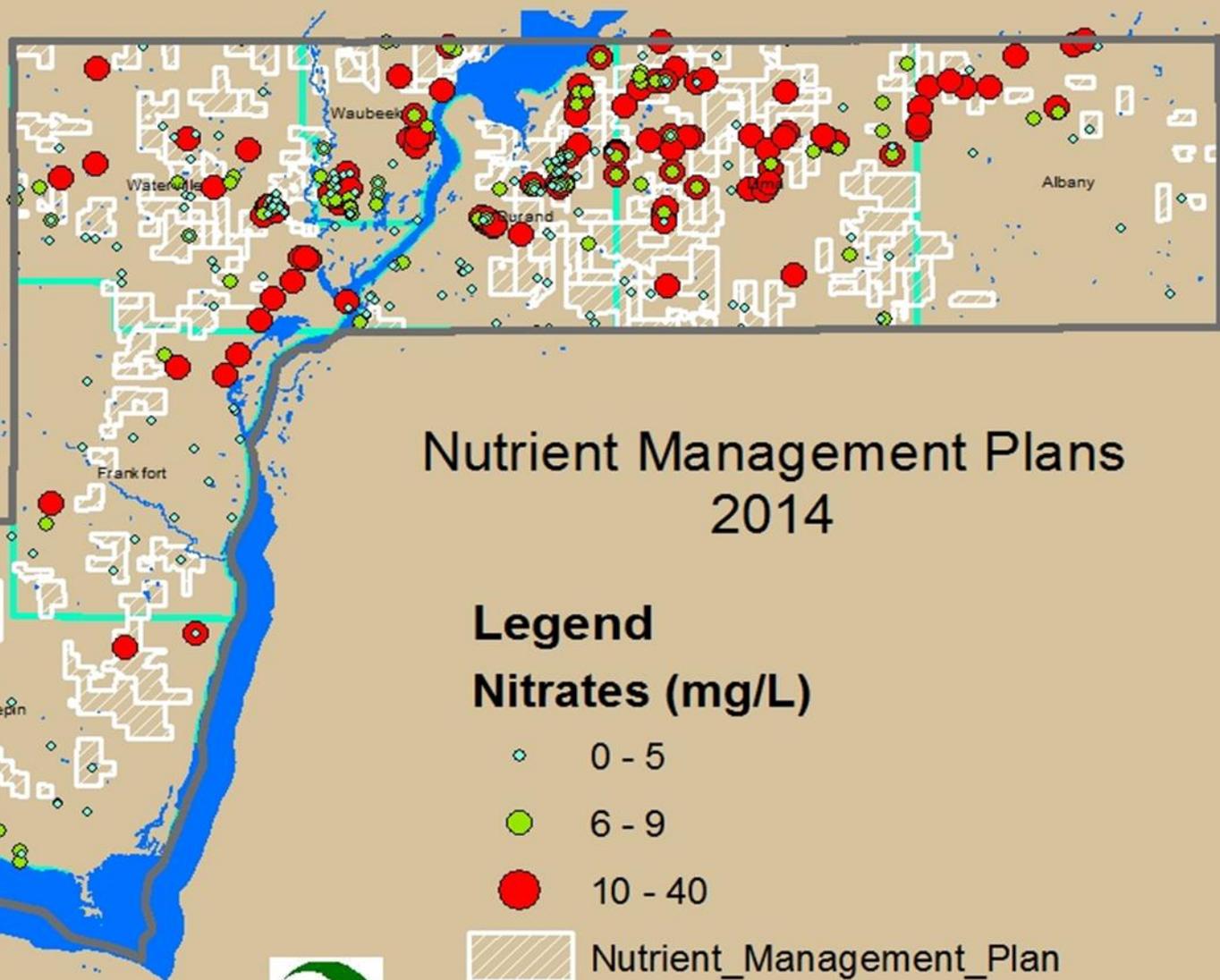


Pepin County Land Conservation Department

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February 10, 2015





Pepin County Land Conservation Department

Agriculture Standards & Prohibitions

NR 151 Implementation

updated for 2016-2020

- Identify and prioritize resource concerns by watershed
 - HUC 12 watersheds (prioritized 1 – 16)
 - Groundwater quality (monitoring)
 - Surface water quality (monitoring)
 - Soil erosion (transect/monitoring)
 - Runoff modeling (EVAAL, STEPL, etc.)
- Apply Priority Farm Approach within each watershed
 - Farms with >20% of cropland eroding at rates greater than 2 “T”
 - Farms operating under a Farmland Preservation Agreement
 - Farms with Manure Storage
 - Farms that have cropland draining to cold water streams
 - Large livestock operations located in areas with soils susceptible to groundwater contamination
 - Remaining areas reviewed in top-down watershed approach

Agriculture Standards & Prohibitions

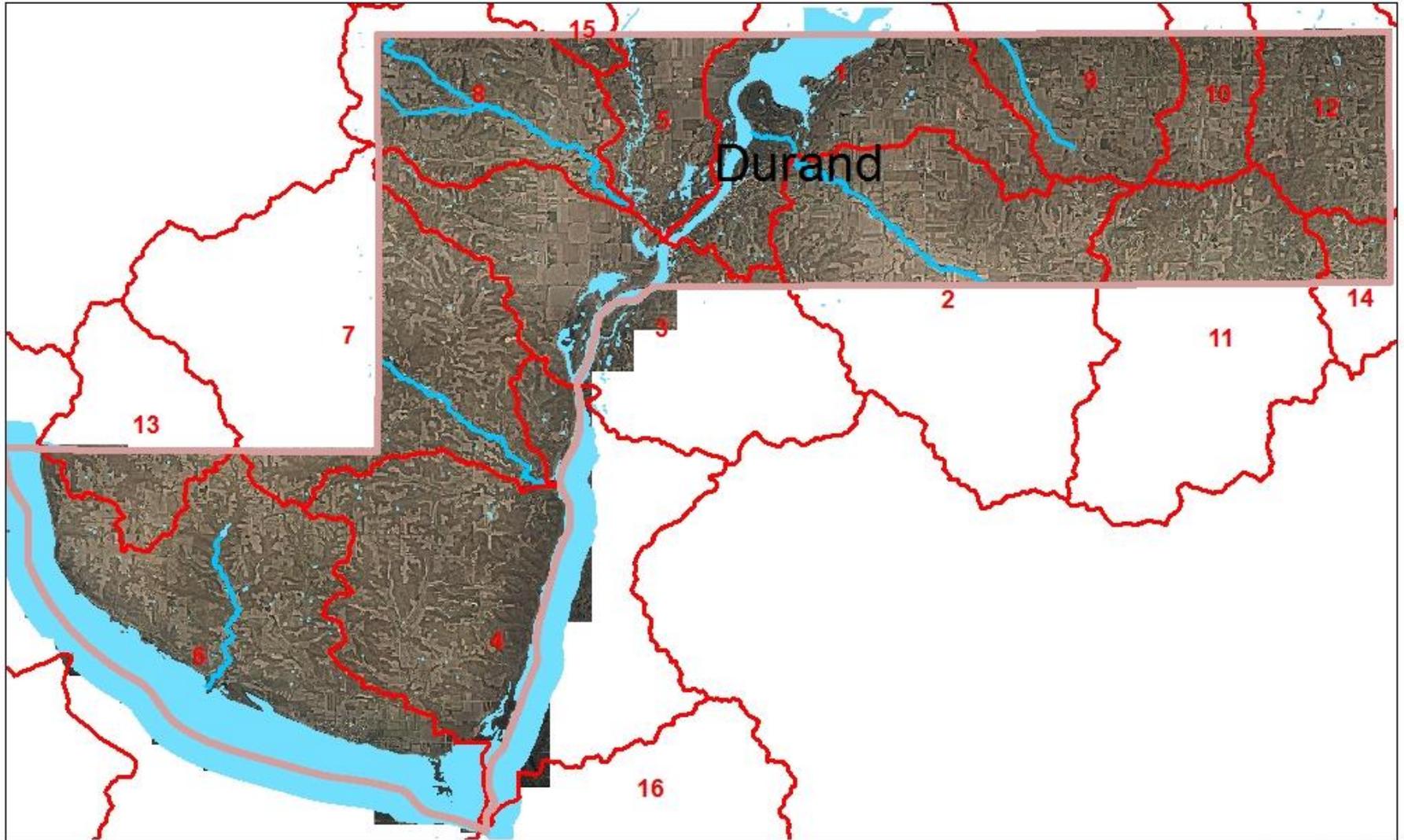
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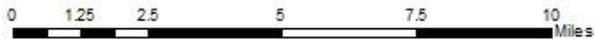
- Track and monitor compliance by parcel
- Schedule of compliance developed, cost-share offer made for parcels not in compliance
- Estimated annual staff hours per watershed (top 10 ranked watersheds)
- Continue to monitor groundwater, surface water and soil erosion to assess changes in watersheds.

Rank	HUC12 Code	HUC12 Name	Staff Time %	Hours (1120)	Facilities/Farms(15)
1	070500051202	City of Durand – Chippewa River	30	336	
2	070500051201	Bear Creek	25	280	
3	070500051203	Spring Creek – Chippewa River	10	112	
4	070500051205	Little Plum Creek – Chippewa River	10	112	
5	070500051008	Lake Eau Galle – Eau Galle River	8	89.6	
6	070400010705	Lake Pepin	5	56	
7	070500051102	Porcupine Creek – Plum Creek	5	56	
8	070500051007	Arkansaw Creek	4	44.8	
9	070500050906	Dus Cham Creek – Chippewa River	2	22.4	
10	070500050903	Cranberry Creek	1	11.2	

Pepin County Prioritized Watersheds - LWRM Implementation 2016 - 2020



1 in = 16,736 ft



Legend

- County Boundary
- Prioritized HUC 12 watersheds
- Monitored surface waterbodies

Pepin Co orthophoto 2013

June 15, 2015



LWRM Plan 2016 - 2020

- Current plan was written for a 10 year planning and implementation document
- Objectives and actions may change, however LWRM Plan goals will not.

Thank you!

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