



# SHAWANO COUNTY LAND & WATER RESOURCE MANAGEMENT PLAN 5 – YEAR REVIEW

LAND & WATER CONSERVATION BOARD MEETING MADISON (VIRTUAL) - APRIL 6, 2021

Scott M. Frank, Conservationist & Arlyn Tober, LCC Chair Shawano County Land Conservation Department (715) 526-4632; scott.frank@co.shawano.wi.us



## LOCATION & MAKEUP





- 25 Towns
- 11 Villages
- 2 Cities

Population – 41,775 Land Area – 910 sq mi

County Seat - Shawano Population - 9,164



## LCD ORGANIZATIONAL CHART

Administrative Coordinator

**James Davel** 

Land Conservation Committee

Arlyn Tober - Chairman

**County Conservationist** 

**Scott Frank** 

Land Conservation Technician

Sam Okkema

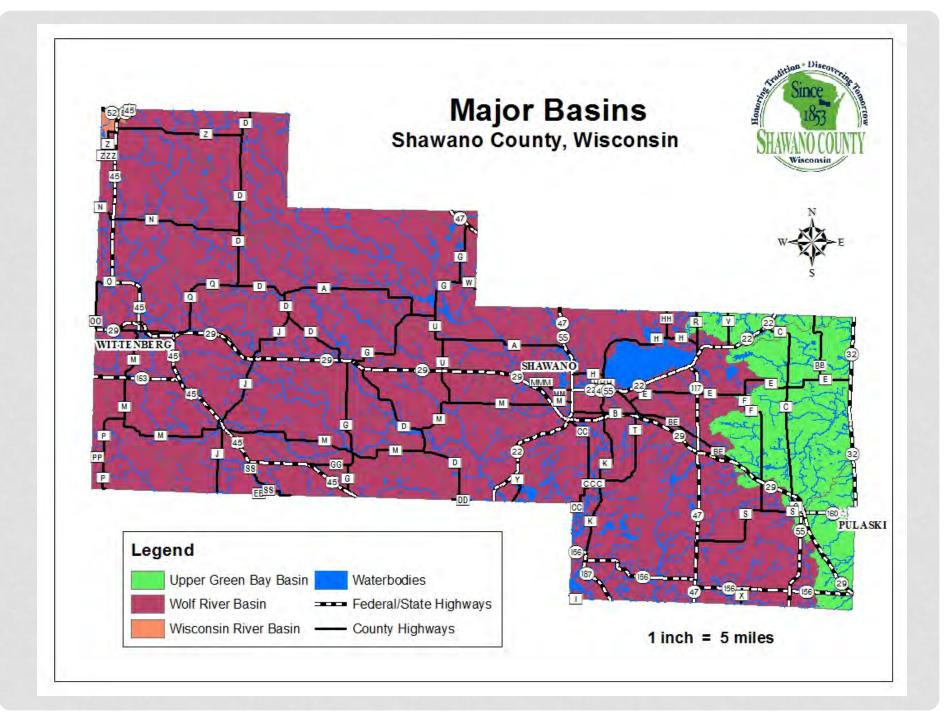
Land Conservation Technician

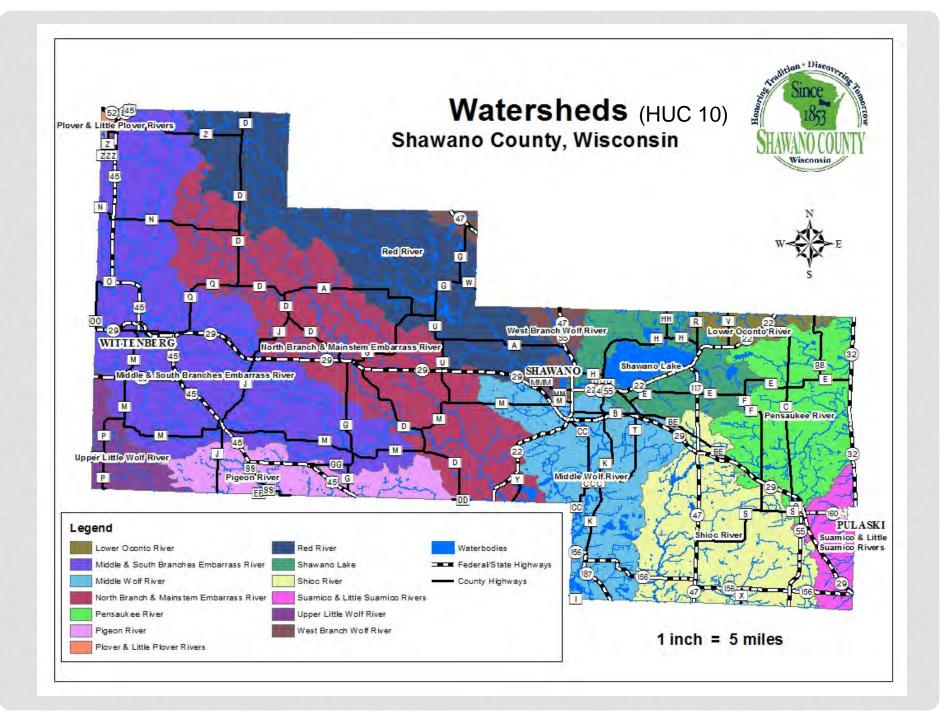
**Blake Schuebel** 

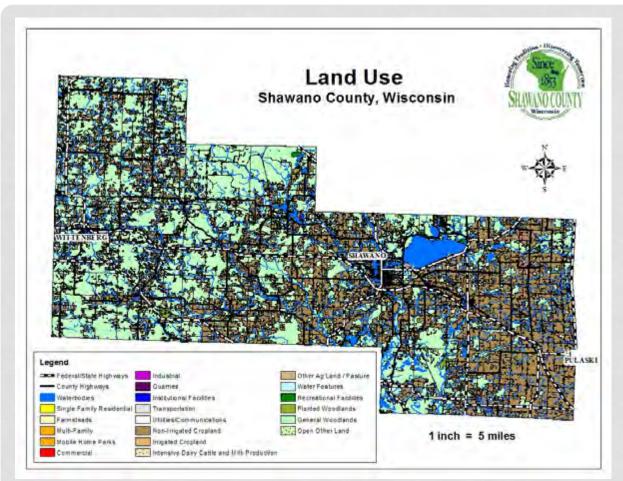


Office Assistant III

**Mary George** 











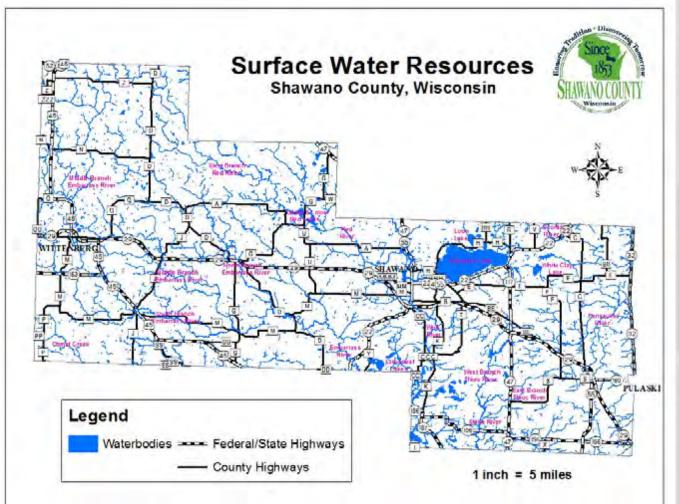


#### **Statistics**

■ Agriculture 208,500 acres (36%)

Forestry and Open Space 320,750 acres (55%)

Surface Water 14,125 acres (2.5%)







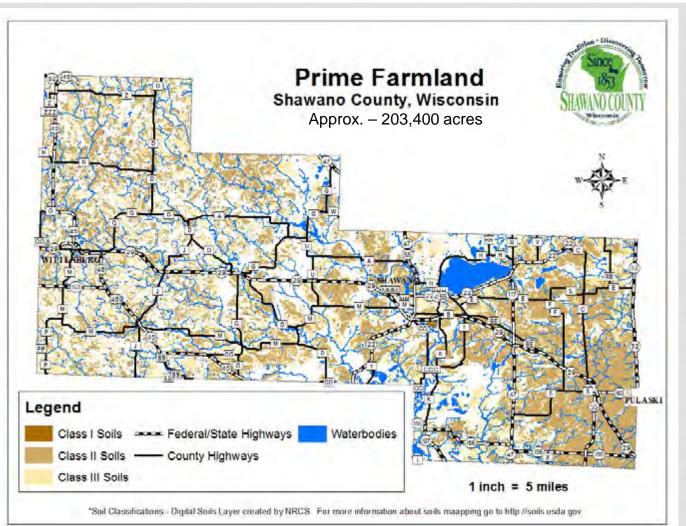




#### **Statistics**

- 135 Lakes and Ponds
- 595 Miles of Rivers and Streams
  - 400 Miles of Trout Streams











#### **Agriculture Statistics & Trends**

<u>Demographic</u>	1997	2012	2017	% Change	Demographic	1997	2012	2017	% Change
Number of Farms	1,337	1,278	1,139	- 14.8	Acres of Corn Silage	26,020	28,420	34,000	30.7
Total Acres in Farms	270,487	261,141	247,241	- 8.6	Acres in Soybeans	6,528	21,400	31,800	387.1
Acres of Hay & Haylage	87,935	59,337	56,267	- 36.0	<b>Total Head of Cows</b>	40,097	39,105	37,000	- 7.7
Acres of Corn Grain	41,898	55,460	41,500	- 1.0	No. of Farms w/Cattle	856	509	553	- 35.4

#### COUNTY ORDINANCES

- Livestock Waste Management Ordinance
  - Performance Standards & Prohibitions
    - Manure Storage (NR 151.05 and NR 151.08)
      - Nutrient Management plans required
    - Process wastewater (NR 151.055)
  - Livestock Waste Permits (waste storage / transfer)
    - > 45 issued (2016-2020)





- Livestock Facilities Licensing Ordinance
  - > Farms with >500 Animal Units
  - 24 Conditional Use Permits (2007-2017)
  - Transitioned to Licenses in 2018
    - Approved 4 new Licenses
    - Approved 7 License Modifications
    - 2 new License requests in 2021 with more expected
  - Coordinate compliance checks w/DNR CAFO reviews



## FARMLAND PRESERVATION

- 7 Townships with FP Zoning
  - New software in 2016
    - Annual maintenance \$4,630
  - Annual self-certification mailing
  - Conservation Compliance Checks
    - Participants divided into 4 groups in 2017
    - > 205 Active Certificates of Compliance
    - > 37,525 acres in compliance
    - 27 Current Notices of Non-compliance
  - Maple Grove AEA approved in 2010
    - Includes almost entire Township
    - > 16 agreements (2,607 acres)
    - Working with DATCP to promote AEA and increase participation

- > Targeted mailing in 2020
  - > 72 landowners w/60 or more acres
    - 6 new participants (571 acres)
- > Tax credits claimed
  - > 182 claimants in 2018 tax year
    - > 33,503 acres
    - > \$242,932



# NUTRIENT MANAGEMENT

- Increase number of acres with NMPs to 65% of cropland acres over next 10 years.
  - Tracking and Mapping since 2010
  - > Farmer NMP Workshops annually since 2013
    - Partner with DATCP and UWEX
    - > 76 participants (26 farms)
  - Annual Work Plan Goal: Increase NMP 2,000 acres / year
    - > 2016 73,039 acres = 39% cropland acres
    - > 2017 80,986 acres
    - > 2018 82,546 acres = 44% cropland acres
    - > 2019 85,396 acres
    - 2020 87,561 acres = 47% cropland acres



**SnapPlus** 



# SUMMARY OF BMP'S 2016-2020

- > 7 Waste Storage Systems
- > 19 Waste Transfer
- > 15 Waste Storage Closure
- > 1 Shoreland Erosion Control
- > 2 Well Abandonments
- > 1 Managed Grazing

- NM (590) Plans (cost-shared)
  - 8 plans; 1,819 acres; \$55,533
- > 12 Shoreline Protection/Restoration
- ➤ 1 Barnyard Runoff Control
- > 4 Feed Leachate Control



Combined total of 70 BMP's

DATCP - \$248,769 DNR - \$305,842 County - \$13,548



#### YOUTH EDUCATION

- Youth Conservation Field Day (2013-2019) - DNR, UWEX, NRCS, NNC
  - Over 225 5th graders each year













- WI Land+Water Conservation Awareness Poster Contest (2018-2020)
  - Participants: 17 ('18), 52 ('19), 5 ('20)



2020 1<sup>st</sup> place at State – Grades 2-3 Flynn Bushman – Wittenberg Elementary

# PROMOTING CONSERVATION

- Public Presentations (Towns Association, Lake Organizations, County Board, etc.)
- Annual Shawano CountyAgricultural Awards Banquet
- Annual Activities Tour with Land Conservation Committee
- Counselor at WI Land+Water Youth Conservation Camp
- Scholarships for WI Land+WaterYouth Conservation Camp









## LCD PARTNERING

- > NRCS EQIP \$
  - LCD technical assistance for EQIP (Ag-waste projects)



- Participate in Local Workgroup mtgs.
- Demonstration Farm Networks
- DNR Tree Planting Program
  - County owned tree planters

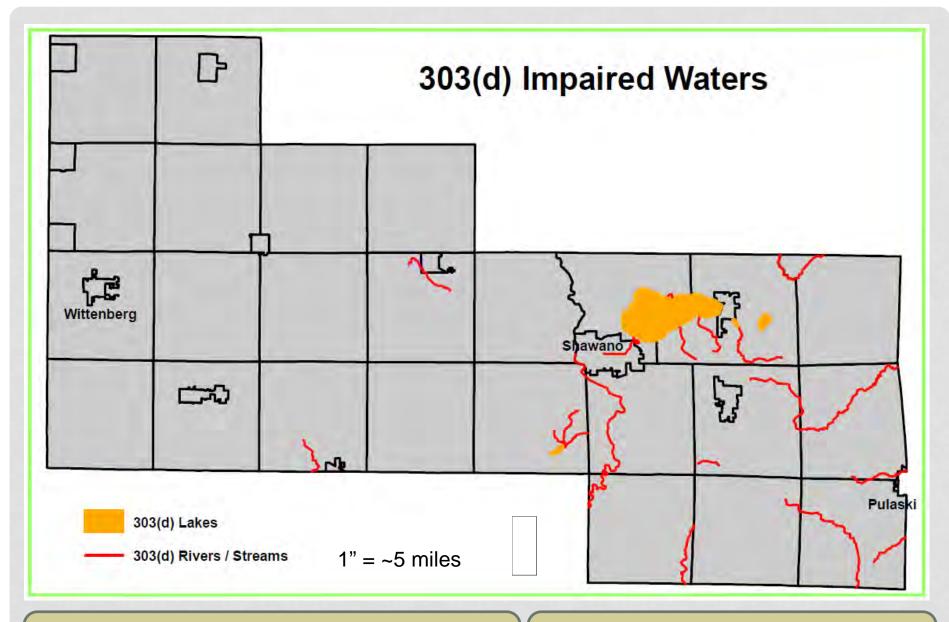




- Invasive Species
  - AIS Boat Landing Kiosks







Listed prior to 2016: 7 (4 due to Total Phosphorus) Listed since 2016: 16 (13 due to Total Phosphorus) Tillage Transect Survey – annually since 1999 Soil loss average increased since 2004 0.9 T/ac/yr to 1.5 T/ac/yr

#### **MOVING AHEAD**

#### Re-integrating the watershed approach

- Demonstration Farm Network
  - Promoting soil health practices
  - Upper Fox/Wolf
    - Started in 2019
    - Partner w/ NRCS and 8 other counties
  - Green Bay West Shore
    - > Started in 2021
    - Partner w/NRCS and 3 other counties





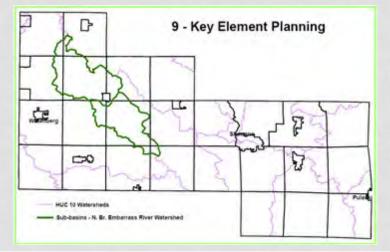


#### **MOVING AHEAD**

#### Re-integrating the watershed approach

- Upper Fox/Wolf River TMDL
  - Approved in 2020
    - > Total Phosphorus & Total Suspended Soilds
- Targeted Runoff Management Grants
  - (3) active small-scale ag-waste grants; applying for one in 2021 grant cycle
  - Large-scale project
- Surface Water Management Grants
  - Working w/Waterways Association of Menominee and Shawano Counties (WAMSCO) and WDNR
    - Management Plan Implementation
  - Planning / Implementation for Lakes & Watersheds
  - Lake Monitoring & Protection Network
    - > Started in 2021

- Multi-Discharger Variance Program
  - Funds for use in specific watersheds
    - Phosphorus reducing BMPs
- > 9 Key Element Planning
  - Started in 2020
  - North Branch Embarrass River
    - 2 subwatersheds
    - In top ten sub-basins for both Total Phosphorus and Total Suspended Solids (by modeling)





# Join us as we make our way to greener pastures while protecting our natural resources

Questions? / Discussion

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