

Yahara WINS Adaptive Management

Dane County Land & Water Resources | 2021 Annual Report

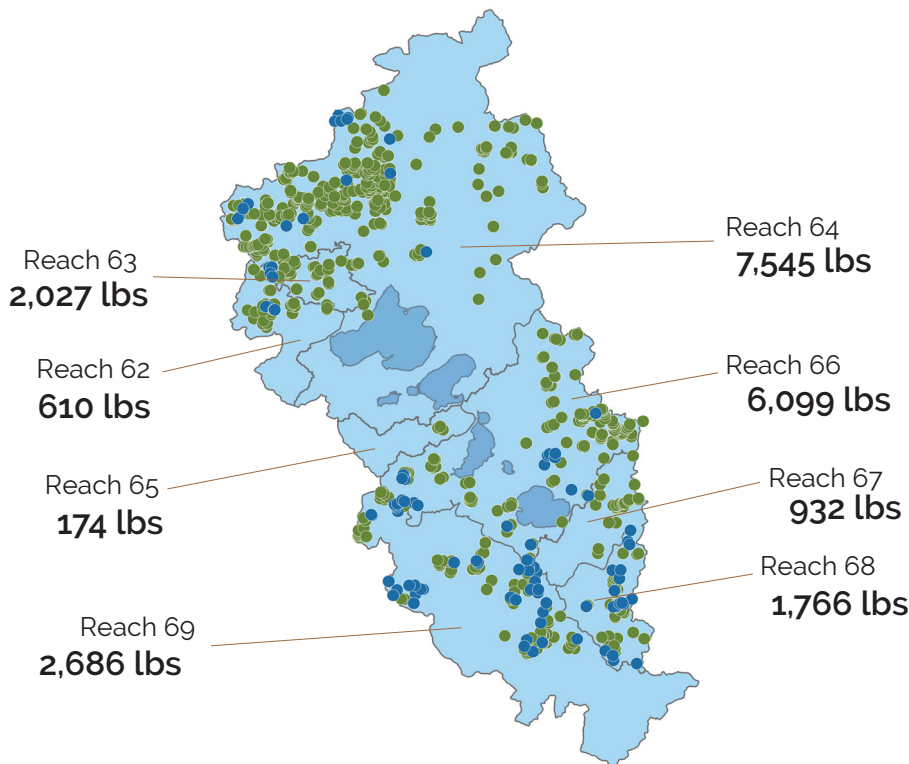
The Dane County Land & Water Resources Department continued its adaptive management partnership in 2021 with the Yahara Watershed Improvement Network (WINS). County assistance included helping rural landowners and agricultural producers with the voluntary implementation of various conservation practices. In addition to helping identify resource concerns, Dane County staff continued to track, calculate and report the associated phosphorus reductions.

Dane County continued to aid landowners with technical and financial assistance for conservation implementation through the challenges of the COVID-19 pandemic. 2021 marked the tenth year of collaboration for Dane County with Yahara WINS. Alongside other municipal entities, landowners and industry partners, the County continues to address resource concerns by supporting the implementation of agricultural conservation practices that will reduce phosphorus and sediment loss.



2021 Conservation Highlights

Reduced annual phosphorus load by 21,838 lbs (reductions by reach on figure below)



JUST ONE POUND OF PHOSPHORUS ENTERING THE LAKES CAN CREATE 500 LBS OF

WET ALGAE... THE AMOUNT OF PHOSPHORUS REDUCED IN 2021 COULD HAVE BEEN RESPONSIBLE FOR ALMOST 11 MILLION POUNDS OF ALGAE GROWTH!

937 practices implemented from 2008-2020 (green on map)

113 practices implemented in 2021 (blue on map)



LAND & WATER
RESOURCES
DEPARTMENT

2021 PERFORMANCE INDICATORS

23 NEW COST SHARE AGREEMENTS SIGNED



In 2021, Dane County signed 23 new cost share agreements with landowners in the watershed.

\$774,767



TOTAL DOLLARS ALLOCATED IN 2021 FOR COST SHARE AGREEMENTS

In 2021, Dane County allocated over \$750,000 for cost share agreements for projects within the watershed, bringing the **total amount allocated since 2013 to \$6,589,778.**



Dane County conservation staff meet with landowners to discuss current and prospective projects.

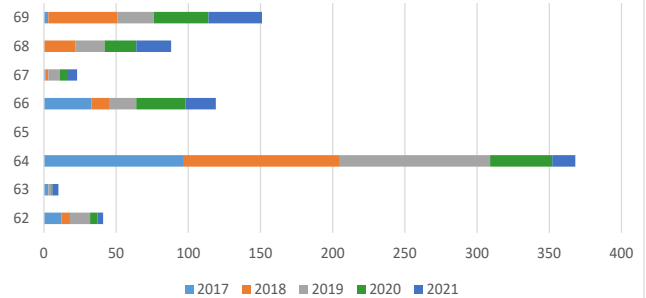
113 TOTAL NUMBER OF CONSERVATION PRACTICES COMPLETED IN 2021

This is a slightly lower number than in 2020, yet the number of completed practices remains over 100 for the 5th year in a row. The total number of completed practices since 2008 is 1,100.



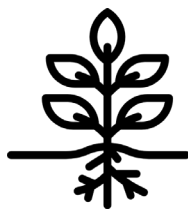
A grassed waterway is used in conjunction with cover crops on this field. Credit: NRCS - Lynn Betts

Number of Completed Conservation Practices By TDML Reach



53,802

ACRES OF LAND TRACKED WITH NUTRIENT MANAGEMENT PLANS



Each TDML reach saw an increase in the numbers of acres tracked with nutrient management plans in 2021. Dane County surpassed 50,000 acres last year for the first time of the partnership.

Acres tracked in 2021 with nutrient management:

TDML Reach 69: **4,897** TDML Reach 65: **92**
 TDML Reach 68: **4,471** TDML Reach 64: **30,393**
 TDML Reach 67: **1,707** TDML Reach 63: **4,109**
 TDML Reach 66: **4,681** TDML Reach 62: **3,453**

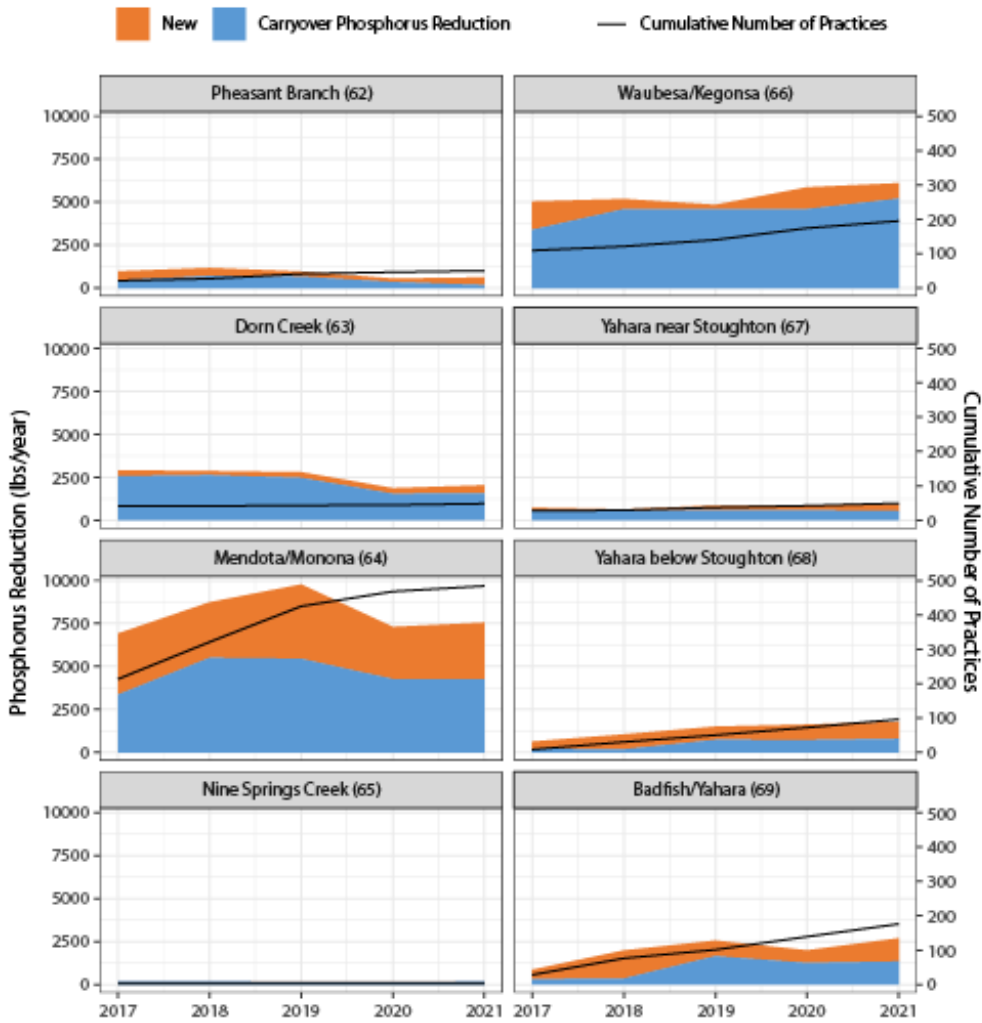
Total completed practices since 2008

TDML Reach 69: **176** TDML Reach 65: **3**
 TDML Reach 68: **96** TDML Reach 64: **484**
 TDML Reach 67: **49** TDML Reach 63: **48**
 TDML Reach 66: **195** TDML Reach 62: **50**

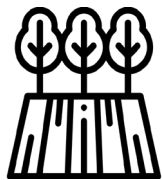
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TOTAL NUMBER OF CONSERVATION PRACTICES PLANNED IN 2021

This was the highest number of practices planned since 2017, bringing the total number of practices since 2013 to 477.



Phosphorus reductions for Yahara WINS are tracked and calculated based on annual and carryover pounds. New pounds for each year are associated with practices that were implemented in that reporting period. Practices installed in previous years that are found to be functioning and maintained contribute to carryover reductions. Examples of these practices are grassed waterways, waste storage facility and conversion from row crops to grazing. Dane County has been able to consistently meet and exceed phosphorus reduction goals over the course of the Yahara WINS partnership. Alongside the other municipal and industry partners, Dane County maintains a strong commitment to the conservation work throughout the watershed to achieve further phosphorus reduction goals.



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NUMBER OF PRACTICE VERIFICATION CHECKS COMPLETED IN 2021

2021 practice verification checks by reach:

- TDML Reach 69: **57**
- TDML Reach 68: **25**
- TDML Reach 67: **5**
- TDML Reach 66: **122**
- TDML Reach 65: **1**
- TDML Reach 64: **31**
- TDML Reach 63: **0**
- TDML Reach 62: **0**

