Annual Dane County Yahara WINS Adaptive Management Report

Annual report on Dane County Land & Water Resources Department efforts assisting with the implementation of conservation practices that reduce phosphorus runoff for the Yahara WINS Adaptive Management project.

2024 Report Year

DANE COUNTY LAND&WATER RESOURCES DEPARTMENT

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Executive Summary

The Dane County Land & Water Resources Department (LWRD) continued its collaboration with the Yahara Watershed Improvement Network (WINS) to advance adaptive management within the Yahara watershed. Efforts included supporting rural landowners and producers in the voluntary implementation of conservation practices, as well as calculating and reporting the associated phosphorus reductions. This partnership celebrated its 13th year in 2024 and achieved continued success, which will be detailed further in this report.

Key 2024 Yahara Watershed Accomplishments

- Implemented 102 new conservation practices over the past year, resulting in a reduction of 6,116.0 pounds of phosphorus. When combined with previously implemented practices, the total phosphorus reduction in 2024 amounts to 22,271.2 pounds.
- Completed 48 practice verification checks to ensure that conservation practices were functioning properly.
- Entered into 29 cost-share agreements for conservation practices and systems.
- Allocated $368,378 in cost-share assistance within the Yahara watershed.
- Tracked 59,144 acres of nutrient management plans within the Yahara watershed.
- Sustained investments in innovative conservation programs like the Continuous Cover Program (CCP).
- Continued efforts with Dane Demo Farms, a network of farmers that demonstrate and research leading edge conservation practices that improve water quality throughout Dane County.

Conservation Practices

The Land Conservation Division within the Land and Water Resources Department (LWRD) at Dane County works to protect and improve local land and water resources while providing benefits to both the environment and agricultural operations. The division manages a number of voluntary conservation-related projects and programs which includes the plan, design, and implementation of agricultural conservation practices to reduce soil erosion and protect water quality.

Planned Practices

At the beginning of 2024, 36 conservation practices were identified (Figure 1) where Dane County LWRD staff would provide planning assistance. Many of these planned practices were voluntarily implemented by landowners and, throughout the year, additional conservation practices were designed and implemented.

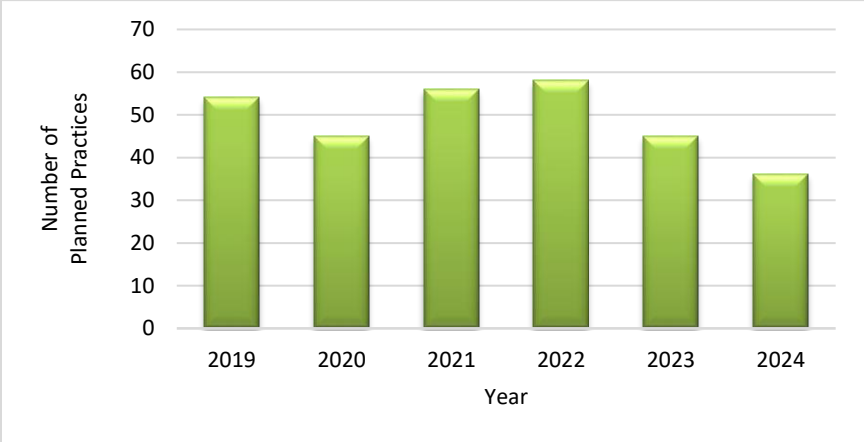

Figure 1. Number of planned conservation practices within the Yahara watershed identified in the Dane County annual work plan.

Implemented Practices

Over the last year, 102 conservation practices were implemented (Figure 2 and Figure 3) effectively reducing the amount of phosphorus that reaches nearby surface waters from runoff. The number of newly implemented practices reduced from previous years. However, this aligns with an overall reduction in funding (Figure 5 and Figure 6).

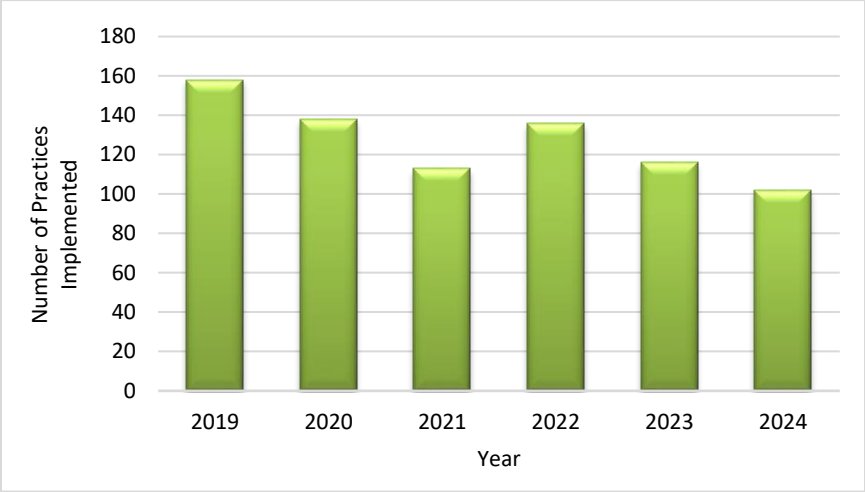

Figure 2. Number of conservation practices implemented within the Yahara watershed.

Cover crops again were the most common conservation practice implemented in 2024 with 2,291.6 acres. Fence and pipeline practices were also common in 2024 and are often associated with grazing systems. Other frequently implemented conservation practices include conservation cover, grassed waterways, and no-till management (

Table 3 in the appendix).

The Dane County LWRD remains committed to advancing and applying innovative conservation initiatives, including the Continuous Cover Program (CCP). CCP provides funding to help convert traditional row-cropped fields to continuous

vegetative cover. Continuous vegetation can increase water infiltration, reduce soil erosion, improve water quality, build soil health, increase wildlife habitat, sequester carbon, and diversify production practices.

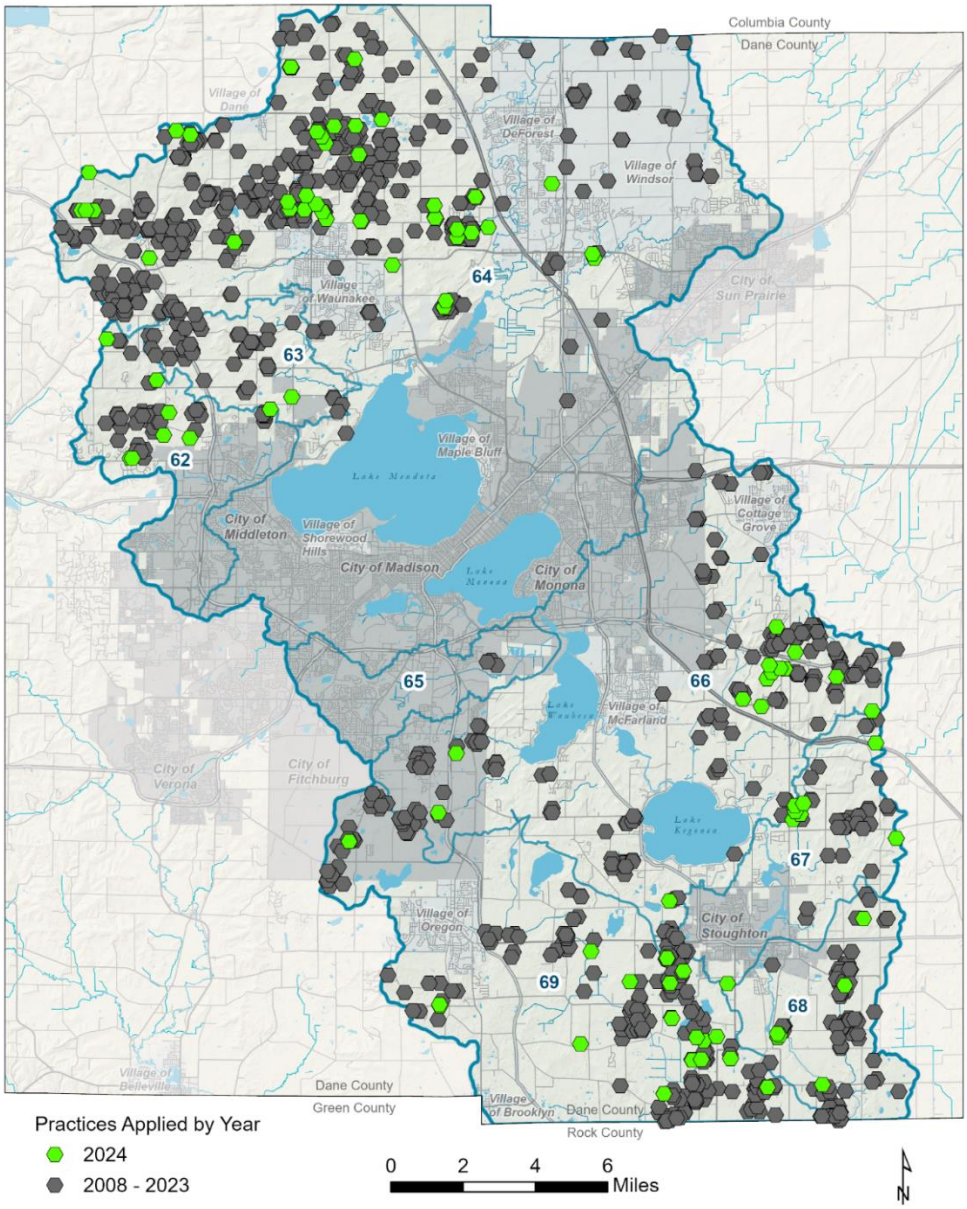

Figure 3. Conservation practices implemented in the Yahara Watershed.

Phosphorus Reductions

The implementation of new conservation practices in 2024 led to a reduction of 6,116.0 pounds of phosphorus. The pounds of phosphorus reduced from new conservation practices is considered new pounds. In contrast, previously

established practices that are still functioning contributed to a reduction of 16,155.2 pounds of phosphorus, recognized as carryover pounds. In total, conservation practices achieved a reduction of 22,271.2 pounds of phosphorus in 2024.

Table 1 and Figure 8-Figure 15 (in the appendix) illustrate these reductions of phosphorus over time in the Yahara watershed and the corresponding TMDL reaches.

Table 1. New and carryover pounds of phosphorus reduced by TMDL reach annually.

	2020		2021		2022		2023		2024	
TMDL Reach	New	Carryover	New	Carryover	New	Carryover	New	Carryover	New	Carryover
62	203.6	342.4	442.3	167.7	307.4	186.1	381.9	186.1	499.6	409.3
63	328.4	1,529.4	464.9	1,562.3	707.1	1,616.3	541.0	1,702.0	448.7	1,407.1
64	3,033.7	4,260.2	3,300.6	4,244.8	3,819.6	4,069.3	4,504.2	4,712	3,151.5	5,578.1
65	0.0	145.6	0.0	174.2	0.0	182.2	12.7	182.2	7.8	182.2
66	1,268.3	4,587.6	900.1	5,198.5	520.0	5,411.6	416.7	5,238.8	678.5	4,953.2
67	285.1	567.0	408.3	523.2	263.6	523.2	314.9	853.3	212.7	821.9
68	904.7	710.0	985.8	779.9	657.8	788.6	490.0	849.7	484.9	846.1
69	737.3	1,247.4	1,352.0	1,333.5	1,582.8	1,453.5	1,114.3	1,717.4	632.3	1,957.3
Total	**6,761.1**	**13,389.6**	**7,853.9**	**13,984.1**	**11,594.4**	**16,870.7**	**7,775.8**	**15,541.5**	**6,116.0**	**16,155.2**

Verification Checks

Dane County LWRD staff inspected all of the 48 conservation practices that were identified for verification this past year. All of the inspected practices were located in TMDL reaches 63 and 64. From the inspections, 45 (94%) practices were found to be functioning and maintained, while 3 (6%) practices were not functioning (Figure 4). Reasons for these practices no longer functioning and being maintained include the conversion of land from agriculture to residential use or conservation practices requiring repairs and maintenance.

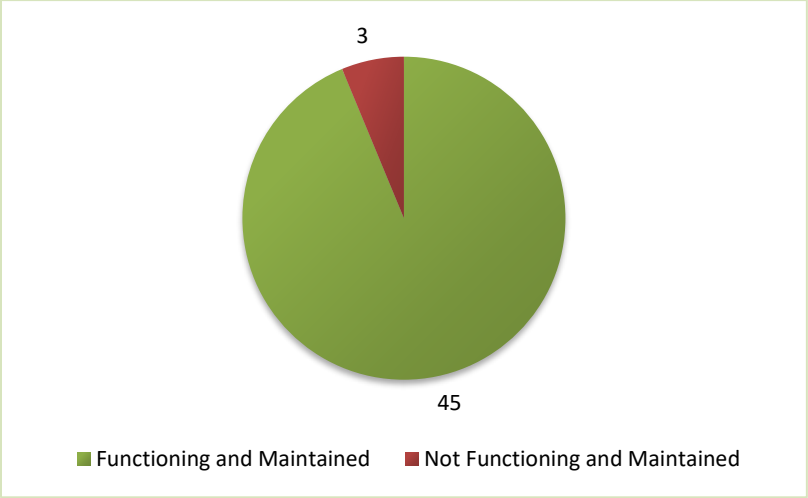

Figure 4. Field verification and review of conservation practices.

Funding Sources and Amounts

Dane County LWRD assisted with 29 new cost-share agreements with landowners, utilizing federal, county, and other funding sources (Figure 5) within the Yahara watershed. The total cost-share funding for these agreements was over $368,378 (Figure 6). Since 2013, Dane County has assisted with over $8 million in cost-share agreements for conservation practices aimed at reducing phosphorus in the watershed. Dane County strives to utilize and leverage all funding sources available including federal, county, and other sources (i.e. Yahara WINS, Clean Lakes Alliance grants, etc.) to support landowners and producers with conservation practices. The available funds and conditions vary annually by funding source and the number of agreements are dependent on the interest from landowners and producers for implementing conservation practices.

Under the current Service Agreement, Yahara WINS provides Dane County with $540,000 for assisting with implementing conservation practices and the WINS Adaptive Management project. In 2024, $157,770 was used in providing cost share assistance, directly to landowners and individuals, to aid in implementing phosphorus reducing conservation practices. The remaining, approximately, $382,000 was used to partially fund staff and equipment required to plan, design, implement, document, verify, and map the conservation practices and nutrient management plans that were reported to Yahara WINS.

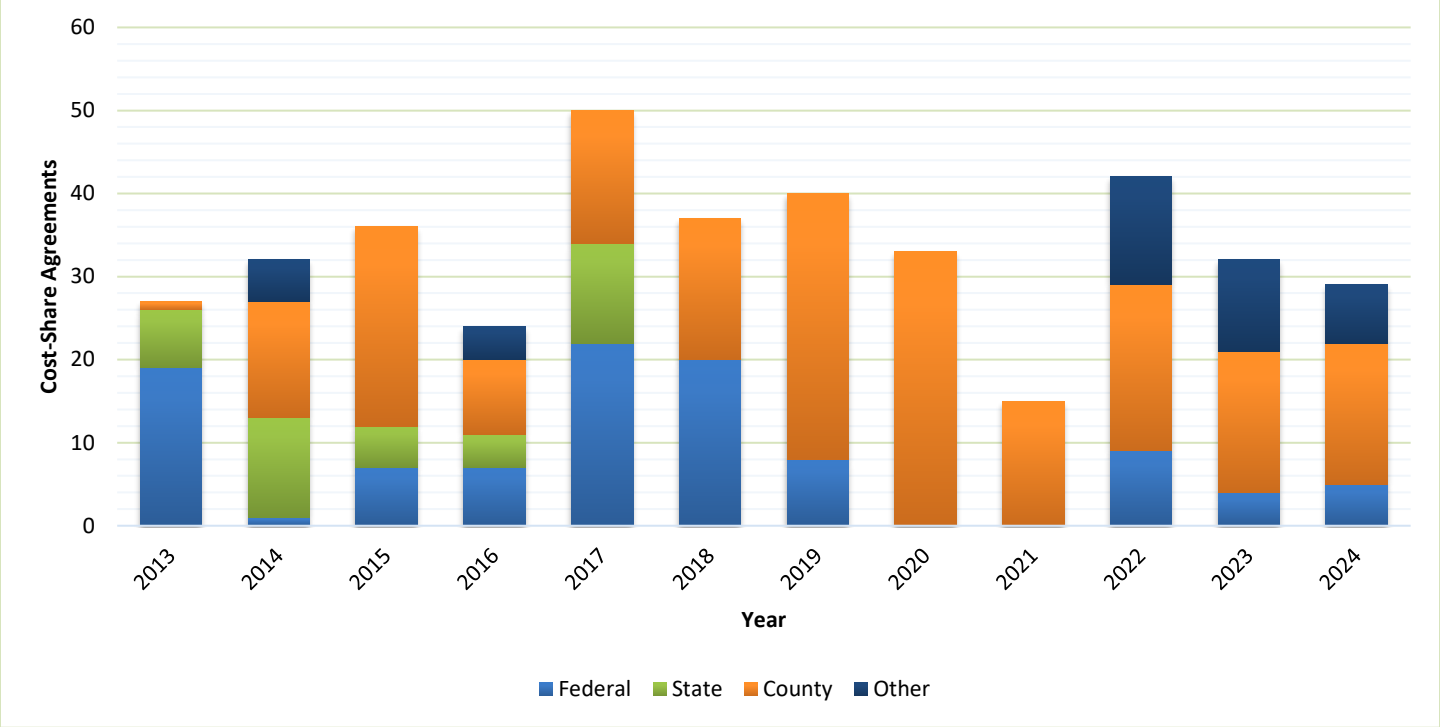

Figure 5. Number of cost-share agreements by funding source.

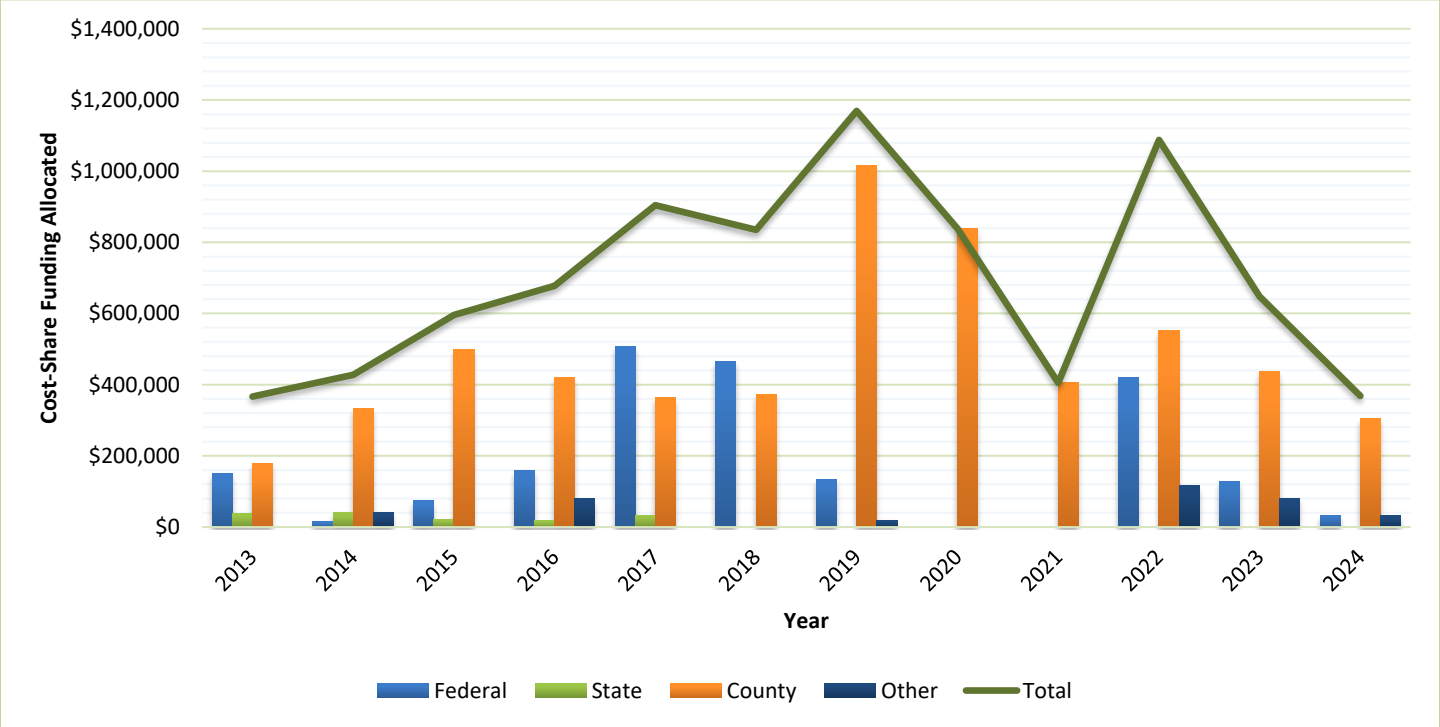

Figure 6. Total cost-share dollars allocated by funding source annually within the Yahara watershed.

Nutrient Management

Nutrient management involves planning for the use of manure and other fertilizers to meet crop nutrient needs in an economical way while reducing the potential for nutrient runoff from fields into lakes, streams, and groundwater. Nutrient management plans (NMP) continue to be received, reviewed, and mapped by Dane County staff. In 2024, 59,144 total acres were mapped within the Yahara watershed. The location of NMPs is documented in Figure 7 and the total number of acres for each TMDL reach are displayed in Table 2.

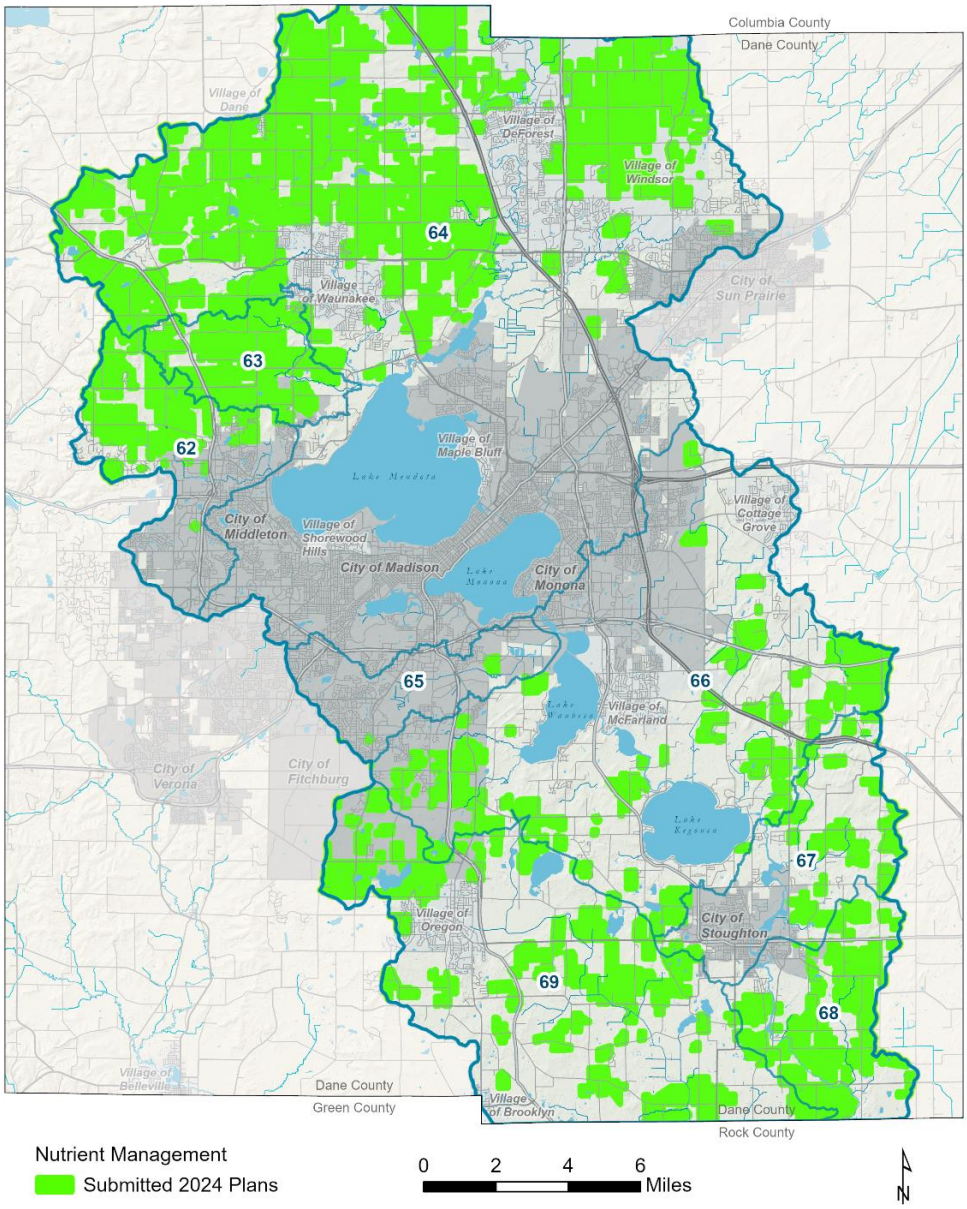

Figure 7. Map of submitted 2024 nutrient management plans in the Yahara watershed.

Table 2. Acres of nutrient management plans mapped within the Yahara watershed.

TMDL Reach	2019	2020	2021	2022	2023	2024
62	1,736	2,061	3,530	3,152	3,819	3,503
63	3,299	2,955	4,109	4,339	5,024	4,489
64	25,951	26,967	32,815	26,983	31,834	31,291
65	0	0	92	0	127	78
66	1,683	3,480	4,691	4,122	3,887	6,053
67	809	988	1,823	1,772	2,169	1,807
68	3,461	4,277	4,471	4,637	4,746	4,501
69	2,619	4,263	6,303	7,458	9,311	7,423
TOTAL	41,587	44,992	57,835	52,465	60,919	59,144

Highlights & Accomplishments

Aquatic Plant Management (APM)

Dane County's Aquatic Plant Management (APM) program helps balance recreational lake use with ecosystem health by managing aquatic vegetation and lake levels. Dane County prioritizes cutting and removing invasive species like Eurasian watermilfoil while preserving native plants that support aquatic life, compete with nuisance algae, and help keep the water clear. In 2024, crews removed 8,229 tons of aquatic plants from the Madison Lakes and Yahara River. This amount of plants accounts for a removal of 4,699.0 pounds of phosphorus—a key contributor to nuisance algae blooms—from the lakes. This phosphorus contribution is not accounted for in the executive summary above.

Dane Demo Farms

The Dane Demo Farms is a network of five Dane County farms demonstrating innovative conservation practices to improve water quality and soil health. The partnership, the first of its kind in the Mississippi River basin, is working to advance conservation efforts and engage the agricultural community in sustainable practices. These farms represent a mix of dairy, grain, and beef operations, showcasing a variety of conservation practices across different soil types and landscapes. All five farms have established research plots, setting the stage for continued data collection and innovation in the 2025 growing season. Two of these Dane Demo Farms are located in the Yahara Watershed and serve as a resource for other farms interested in adopting conservation practices.

More information is available on-line at https://demofarms.danecounty.gov/.

Mastermind Dinner for Farm Women

Conservation staff hosted a Mastermind Dinner for 32 farm women at Schumacher Farm Park in Waunakee, supported by the Natural Resources Foundation and American Farmland Trust. The event highlighted the vital yet often overlooked role of farm partners in conservation decisions. Keynote speaker Annaliese Wagner (The Modern Farm Chick) inspired participants to amplify their voices, while a Rainfall Simulator demonstrated the impact of soil health, using soil from a

local participant's farm. The evening featured locally sourced food and drinks, fostering connections and underscoring the attainability of sustainable land-use practices in our communities.

Summary

The continued partnership between Dane County and Yahara WINS resulted in another successful year of conservation implementation to improve water quality in the Yahara watershed. In 2024, 102 new practices were implemented and 48 practices were verified to confirm that they were functioning. Yahara WINS continued to provide funding to aid Dane County in conservation practice implementation. Newly implemented conservation practices reduced the amount of phosphorus entering nearby surface waters by 6,116.0 pounds. Adding this to the 16,155.2 pounds of phosphorus reduced from previously implemented practices, the total phosphorus reduction in this past year was 22,271.2 pounds. In addition to implemented conservation practices, NMPs covered 59,144 acres in the Yahara watershed. Dane County LWRD is dedicated to protecting and improving the natural resources of the county and looks forward to its continued partnership with Yahara WINS to advance environmental and conservation initiatives.

Appendix

Table 3. Amount of conservation practices implemented in the Yahara watershed by TMDL reach and year.

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
62	Cover Crop	Ac	0.0	0.0	0.0	0.0	165.4	795.0
	Critical Area Planting	Ac	0.5	0.0	0.0	0.0	0.0	0.5
	Diversion	Ft	264.0	0.0	0.0	0.0	0.0	264.0
	Grade Stabilization Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Grassed Waterway	Ac	0.0	2.6	0.0	0.0	0.6	6.9
	Lined Waterway	Ft	0.0	291.5	0.0	0.0	0.0	291.5
	Pasture and Hay Planting	Ac	0.0	0.0	0.0	0.0	0.0	5.5
	Prairie Restoration	Ac	0.0	0.0	0.0	0.0	40.7	40.7
	Roof Runoff Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Stream Crossing	No	0.0	0.0	0.0	0.0	1.0	1.0
	Waste Storage Facility	No	1.0	0.0	0.0	0.0	0.0	1.0
63	Closure of Waste Impound	No	0.0	0.0	0.0	0.0	0.0	2.0
	Cover Crop	Ac	0.0	0.0	136.6	135.5	0.0	545.4
	Dane County Perpetual Easement	Ac	0.0	0.0	0.0	0.0	0.0	3.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	9.6
	Grassed Waterway	Ac	0.3	3.1	0.0	0.1	0.0	8.3
	Heavy Use Area Protection	Ac	0.0	0.0	0.0	0.0	0.0	4.2

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
63	Mulching	Ac	0.0	0.0	0.0	0.1	0.0	0.1
	No Till Drill	Ac	0.0	0.0	136.6	0.0	0.0	136.6
	No Till Drill (Equipment)	No	0.0	0.0	0.0	0.0	1.0	1.0
	Prairie Restoration	Ac	0.0	0.0	0.0	0.0	0.0	0.0
	Roof Runoff Structure	No	0.0	0.0	0.0	0.0	0.0	2.0
	Waste Facility Closure	No	0.0	0.0	1.0	0.0	0.0	1.0
	Waste Storage Facility	No	0.0	0.0	0.0	0.0	0.0	1.0
	Water and Sediment Control Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
64	Access Control	Ac	0.0	0.0	0.0	0.0	0.0	2.9
	Animal Trails and Walkways	Ft	0.0	0.0	0.0	0.0	0.0	478.0
	Conservation Cover	Ac	12.7	1.4	0.0	0.0	0.0	16.1
	Cover Crop	Ac	534.0	217.3	1,216.2	1,938.5	900.6	10,575.5
	Critical Area Planting	Ac	0.0	0.0	0.0	1.5	0.0	9.6
	Diversion	Ft	0.0	3,232.0	0.0	0.0	0.0	6022.0
	Fence	Ft	6,400.0	720.0	0.0	9,285.0	0.0	16,825.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	18.5
	Grade Stabilization Structure	No	0.0	0.0	0.0	0.0	0.0	5.0
	Grassed Waterway	Ac	4.6	4.0	3.1	1.3	3.0	38.4
	Heavy Use Area Protection	Ac	0.0	0.0	0.0	0.0	0.0	3.3

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
64	Lined Waterway or Outlet	Ft	589.0	0.0	0.0	0.0	0.0	1,195.0
	Lot Relocation or Abandonment	No	1.0	0.0	0.0	0.0	0.0	1.0
	Manure Transfer	No	0.0	0.0	0.0	0.0	0.0	5.0
	Mulching	Ac	0.0	0.0	0.0	2.8	0.0	2.8
	No Till Drill	Ac	0.0	0.0	90.3	0.0	0.0	90.3
	No Till Drill (Equipment)	No	0.0	0.0	0.0	1.0	4.0	5.0
	Obstruction Removal	Ac	0.0	0.0	0.0	0.0	0.0	0.1
	Pasture and Hay Planting	Ac	0.0	0.0	0.0	0.0	0.0	67.9
	Prairie Restoration	Ac	0.0	0.0	0.0	0.0	5.7	5.7
	Prescribed Grazing	Ac	0.0	0.0	0.0	0.0	0.0	66.2
	Roof Runoff Structure	No	0.0	0.0	5.0	0.0	9.0	20.0
	Stream Crossing	No	1.0	0.0	0.0	1.0	0.0	3.0
	Streambank and Shoreline Stabilization	Ft	0.0	700.0	0.0	0.0	0.0	2,225.0
	Subsurface Drain	Ft	1,380.0	0.0	0.0	0.0	0.0	1,380.0
	Underground Outlet	Ft	0.0	0.0	452.0	0.0	0.0	452.0
	Waste Facility Closure	No	1.0	1.0	1.0	4.0	0.0	7.0
	Waste Storage Facility	No	0.0	0.0	1.0	1.0	0.0	10.0
	Waste Transfer	No	0.0	0.0	0.0	1.0	0.0	1.0
	Wastewater Treatment Strip	Ac	0.0	0.0	0.0	0.0	0.0	0.6

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
64	Water and Sediment Control Structure	No	0.0	0.0	0.0	0.0	0.0	2.0
	Well Decommissioning	No	0.0	0.0	0.0	0.0	0.0	1.0
	Wetland Restoration	Ac	0.0	0.0	0.0	0.0	0.0	78.0
65	Grassed Waterway	Ac	0.0	0.0	0.0	0.0	0.0	3.3
66	Access Road	Ft	3,826.0	0.0	392.0	0.0	0.0	5,003.0
	Conservation Cover	Ac	99.7	35.4	29.2	0.0	1.7	184.5
	Cover Crop	Ac	76.7	219.0	23.1	140.0	371.4	890.0
	Critical Area Planting	Ac	0.0	6.5	0.0	0.0	0.0	6.5
	Diversion	Ft	700.0	0.0	0.0	0.0	0.0	4,300.0
	Fence	Ft	17,530.0	4,800.0	2,793.0	2,430.0	2,095.0	29,648.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	65.4
	Forage and Biomass Planting	Ac	70.7	24.8	0.0	0.0	0.0	95.5
	Forage Harvest Management	Ac	0.0	0.0	0.0	0.0	0.0	45.1
	Grade Stabilization Structure	No	2.0	0.0	0.0	0.0	0.0	2.0
	Grassed Waterway	Ac	3.3	0.4	0.0	0.0	0.0	36.9
	Heavy Use Area Protection	Ac	0.0	0.0	0.0	0.0	0.0	0.1
	Lined Waterway or Outlet	Ft	0.0	0.0	0.0	0.0	0.0	249.0

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
66	Livestock Pipeline	Ft	980.0	0.0	0.0	120.0	0.0	6,450.0
	No Till Drill (Equipment)	No	0.0	0.0	0.0	2.0	0.0	2.0
	Pasture and Hay Planting	Ac	0.0	0.0	0.0	0.0	0.0	33.8
	Prescribed Grazing	Ac	24.6	36.1	11.3	0.0	0.0	72.0
	Roof Runoff Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Sediment Basin	No	0.0	0.0	0.0	0.0	0.0	1.0
	Shallow Water Development	Ac	0.0	0.0	0.0	0.0	0.0	10.9
	Stream Crossing	No	2.0	0.0	0.0	0.0	0.0	4.0
	Terrace	Ft	0.0	0.0	0.0	0.0	0.0	558.0
	Tree/Shrub Establishment	Ac	0.0	0.0	0.0	0.0	0.0	18.8
	Underground Outlet	Ft	0.0	0.0	0.0	0.0	0.0	250.0
	Wastewater Treatment Strip	Ac	0.0	0.0	0.0	0.0	0.0	0.2
	Water and Sediment Control Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Watering Facility	No	1.0	0.0	0.0	1.0	0.0	2.0
	Wetland Restoration	Ac	0.0	0.0	0.0	0.0	0.0	9.2
67	Conservation Cover	Ac	0.0	0.0	0.0	0.0	17.5	17.5
	Cover Crop	Ac	196.7	356.1	53.3	0.0	0.0	802.9
	Fence	Ft	0.0	0.0	0.0	8,775.0	0.0	13,036.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	34.3

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
67	Forage and Biomass Planting	Ac	0.0	0.0	31.2	23.9	0.0	55.1
	Grassed Waterway	Ac	0.0	0.0	0.0	0.5	0.0	2.9
	Livestock Pipeline	Ft	0.0	0.0	700.0	0.0	0.0	3,770.0
	Mulching	Ac	0.0	0.0	0.0	0.5	0.0	0.5
	No Till Drill	Ac	0.0	211.0	0.0	0.0	0.0	211.0
	Pasture and Hay Planting	Ac	0.0	0.0	0.0	0.0	0.0	4.2
	Prescribed Grazing	Ac	39.7	0.0	31.2	23.9	0.0	112.3
	Tree/Shrub Establishment	Ac	0.0	0.0	0.0	0.0	0.0	4.7
68	Conservation Cover	Ac	0.0	0.0	5.0	0.0	0.0	5.0
	Cover Crop	Ac	352.3	473.9	144.9	77.2	179.2	1,788.5
	Fence	Ft	13,700.0	5,680.0	0.0	0.0	8,925.0	41,949.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	14.7
	Forage and Biomass Planting	Ac	0.0	7.2	13.0	0.0	0.0	20.2
	Grade Stabilization Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Grassed Waterway	Ac	0.6	0.0	0.0	0.0	0.0	5.3
	Heavy Use Area Protection	Ac	0.0	0.0	0.0	0.0	0.0	1.0
	Livestock Pipeline	Ft	4,900.0	325.0	990.0	0.0	1,920.0	9,085.0
	No Till Drill	Ac	0.0	294.9	0.0	0.0	0.0	294.9

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
68	Prescribed Grazing	Ac	39.2	31.4	0.0	0.0	0.0	70.6
	Shallow Water Development	Ac	0.0	0.0	0.0	0.0	0.0	10.0
	Tree/Shrub Establishment	Ac	0.0	0.0	0.0	0.0	0.0	1.0
	Watering Facility	No	0.0	1.0	0.0	0.0	1.0	2.0
	Water Well	No	0.0	0.0	0.0	0.0	1.0	1.0
	Wetland Restoration	Ac	0.0	0.0	0.0	0.0	0.0	10.0
69	Conservation Cover	Ac	38.9	22.0	0.0	5.7	3.3	155.2
	Cover Crop	Ac	430.3	1,239.5	1,152.0	348.7	676.0	5,330.7
	Critical Area Planting	Ac	25.6	0.0	0.0	0.0	0.0	25.6
	Fence	Ft	8,050.0	17,725.0	14,299.0	3,008.0	13,154.0	56,236.0
	Filter Strip	Ac	0.0	0.0	0.0	0.0	0.0	56.5
	Forage and Biomass Planting	Ac	22.0	27.0	0.0	32.1	0.0	81.1
	Grade Stabilization Structure	No	0.0	0.0	1.0	0.0	0.0	1.0
	Grassed Waterway	Ac	0.0	0.0	0.3	0.0	0.0	10.1
	Livestock Pipeline	Ft	3,000.0	0.0	1,830.0	0.0	3,550.0	8,380.0
	No Till Drill (Equipment)	No	0.0	0.0	0.0	5.0	2.0	7.0
	Prescribed Grazing	Ac	0.0	39.0	0.0	5.7	0.0	44.7
	Roof Runoff Structure	No	2.0	0.0	0.0	0.0	0.0	2.0

TMDL Reach	Practice	Units	2020	2021	2022	2023	2024	Total Amount Since 2008
69	Shallow Water Development	Ac	0.0	0.0	0.0	0.0	0.0	3.5
	Stream Crossing	No	0.0	0.0	1.0	0.0	0.0	1.0
	Waste Facility Closure	No	1.0	0.0	0.0	0.0	0.0	1.0
	Water and Sediment Control Structure	No	0.0	0.0	0.0	0.0	0.0	1.0
	Watering Facility	No	0.0	0.0	2.0	0.0	0.0	2.0
	Wetland Restoration	Ac	2.0	0.0	0.0	0.0	0.0	2.0
	Wetland Wildlife Habitat	Ac	0.0	0.0	0.0	0.0	0.0	9.6

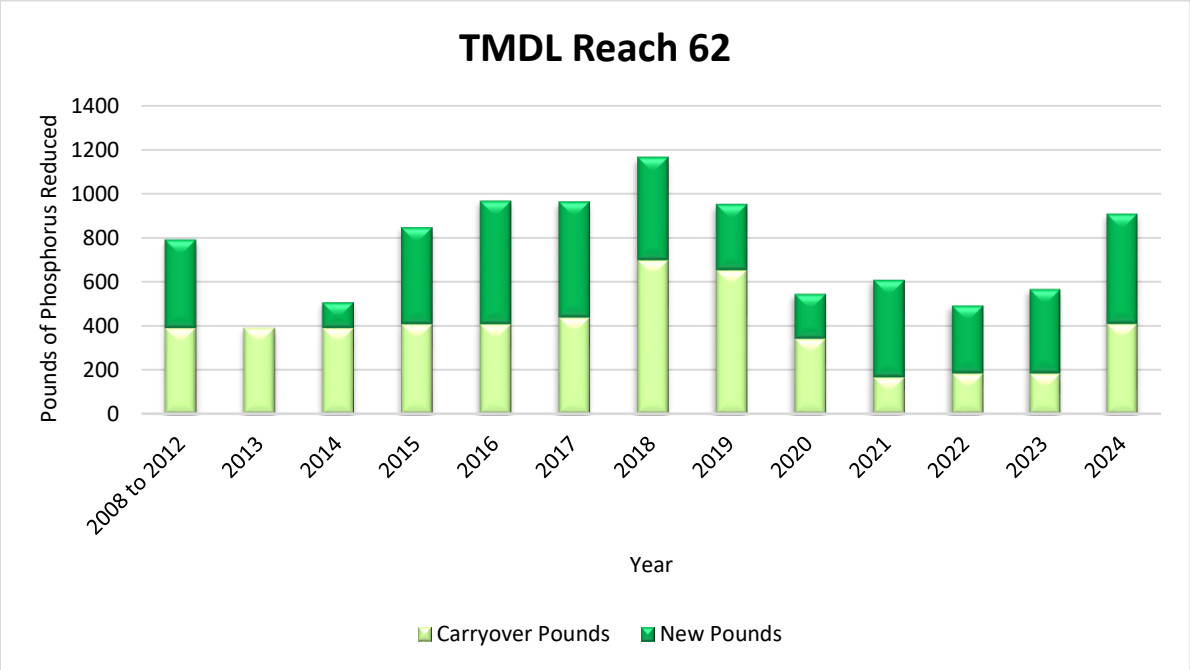

Figure 8. TMDL Reach 62 new and carryover pounds of phosphorus reductions by year.

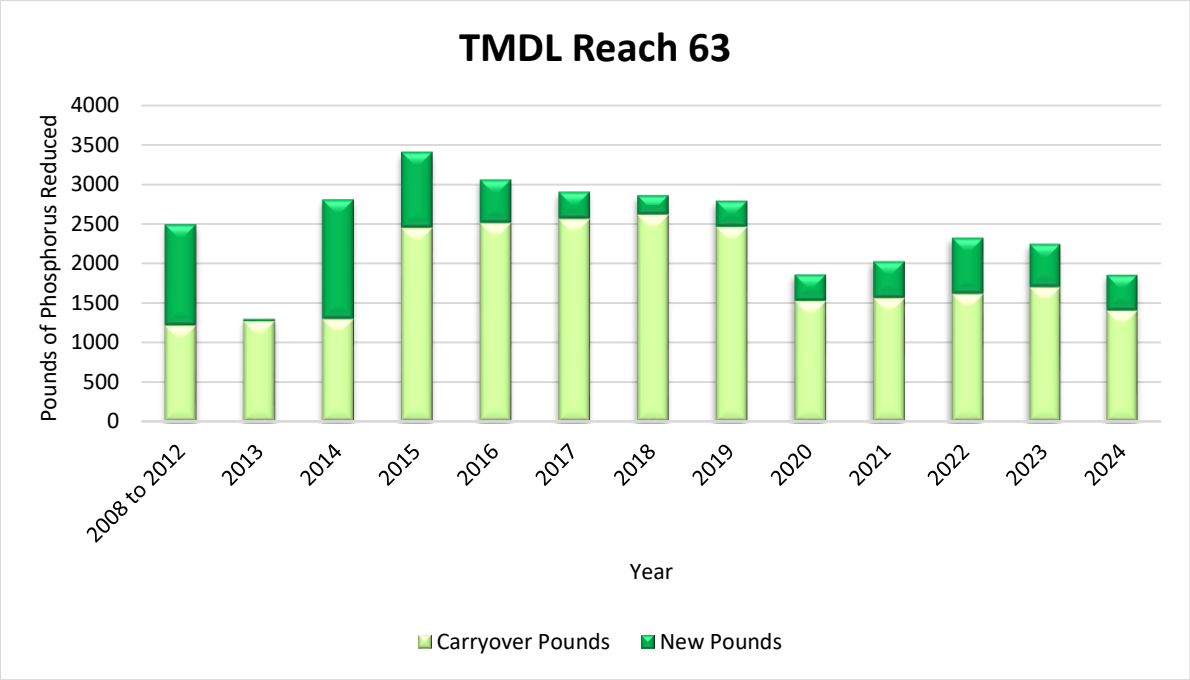

Figure 9. TMDL Reach 63 new and carryover pounds of phosphorus reductions by year.

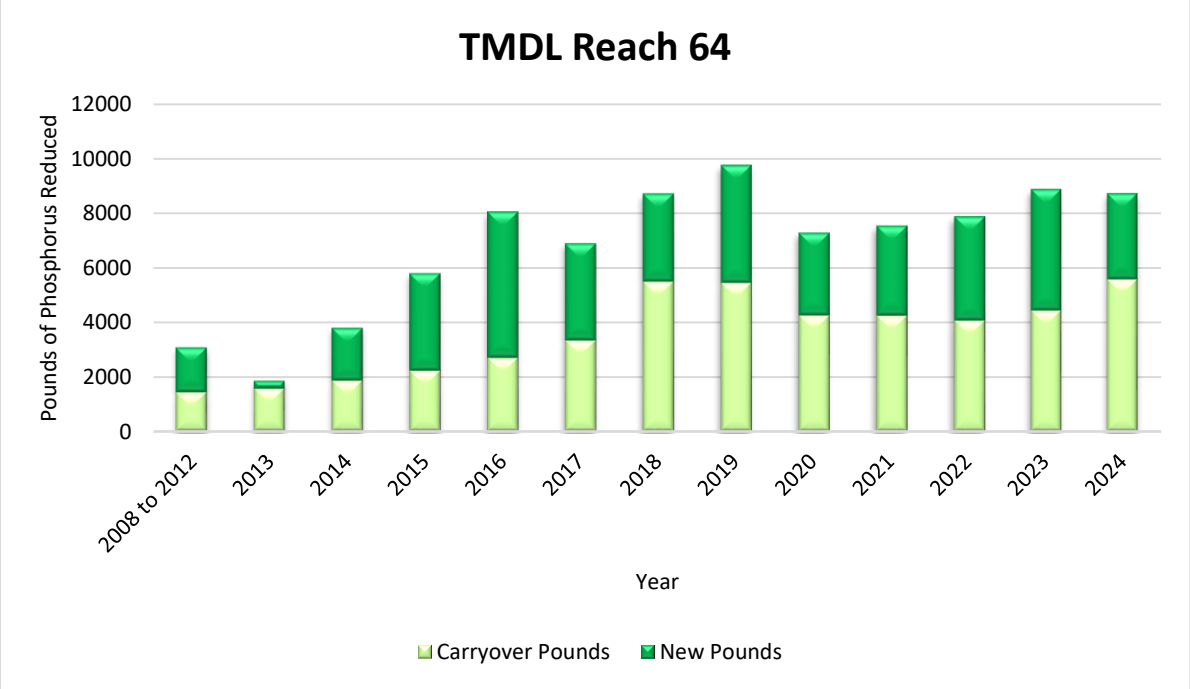

Figure 10. TMDL Reach 64 new and carryover pounds of phosphorus reductions by year.

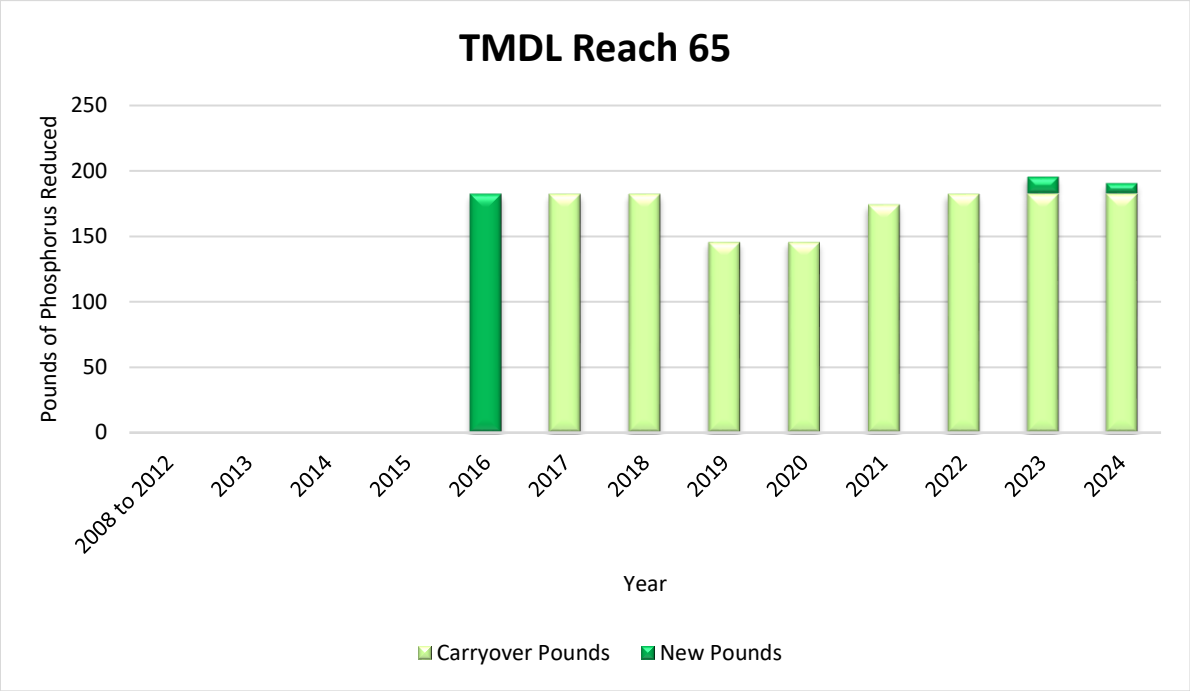

Figure 11. TMDL Reach 65 new and carryover pounds of phosphorus reductions by year.

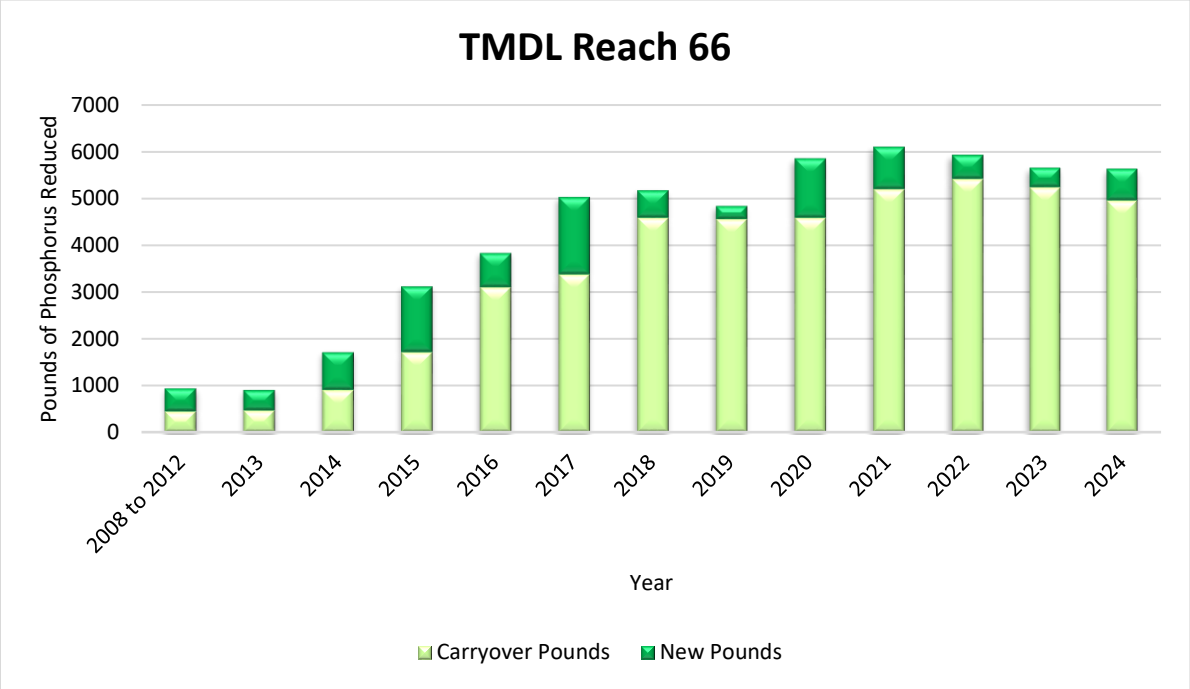

Figure 12. TMDL Reach 66 new and carryover pounds of phosphorus reductions by year.

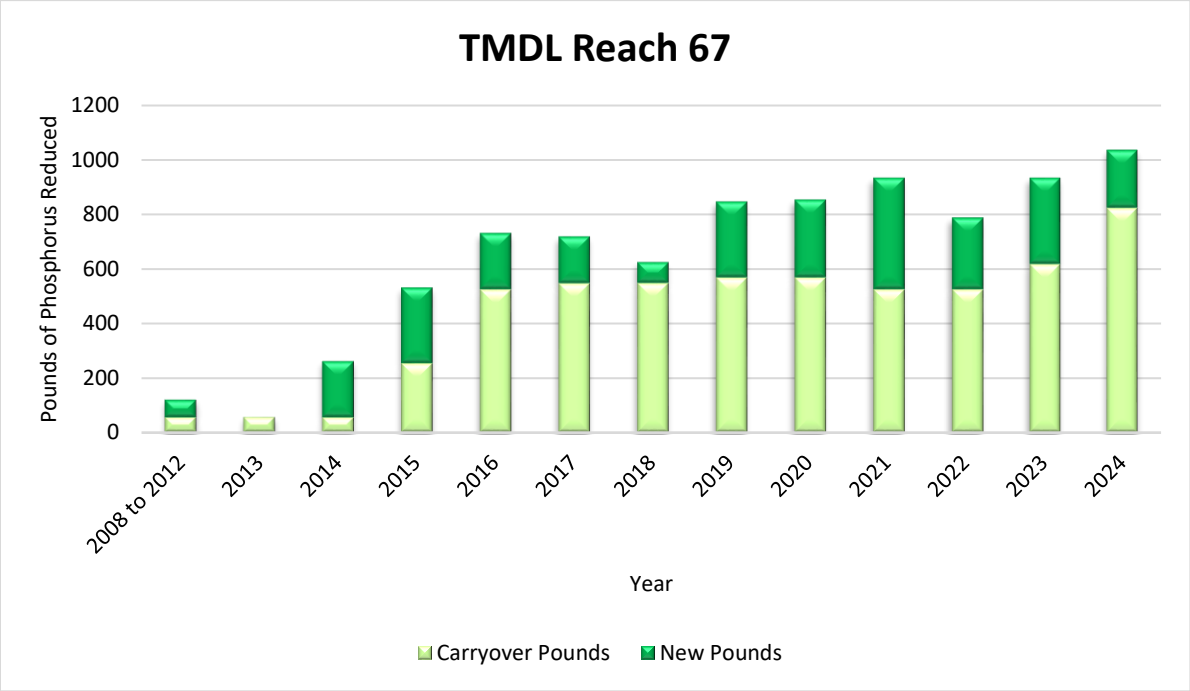

Figure 13. TMDL Reach 67 new and carryover pounds of phosphorus reductions by year.

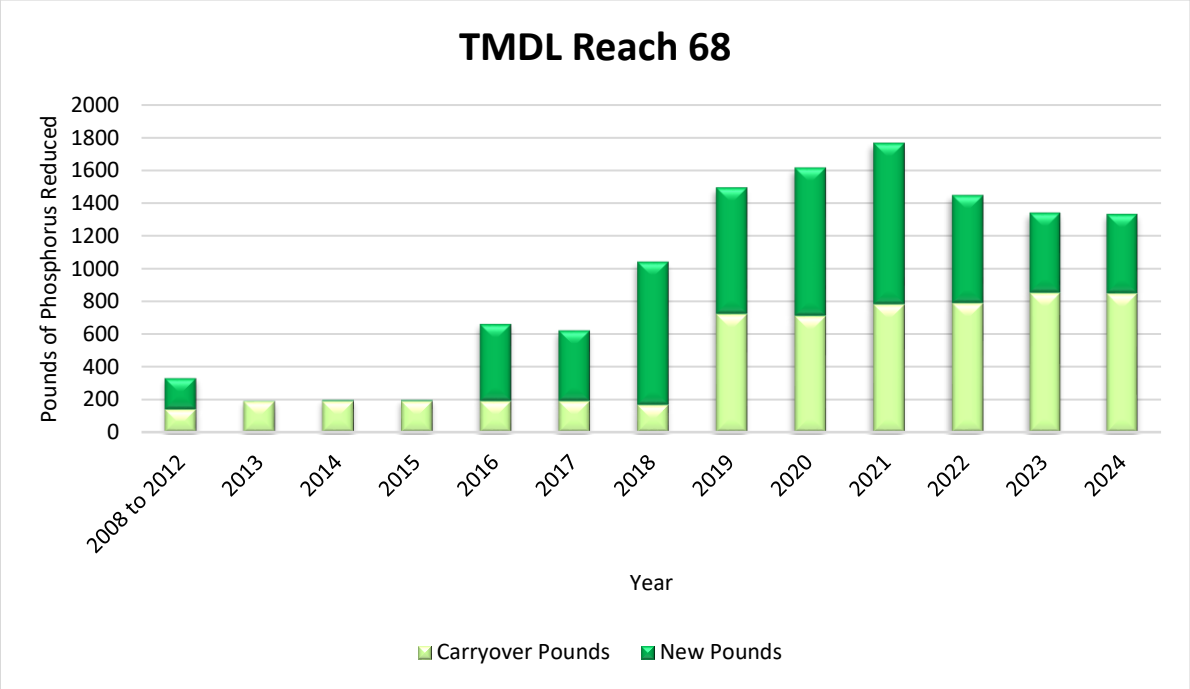

Figure 14. TMDL Reach 68 new and carryover pounds of phosphorus reductions by year.

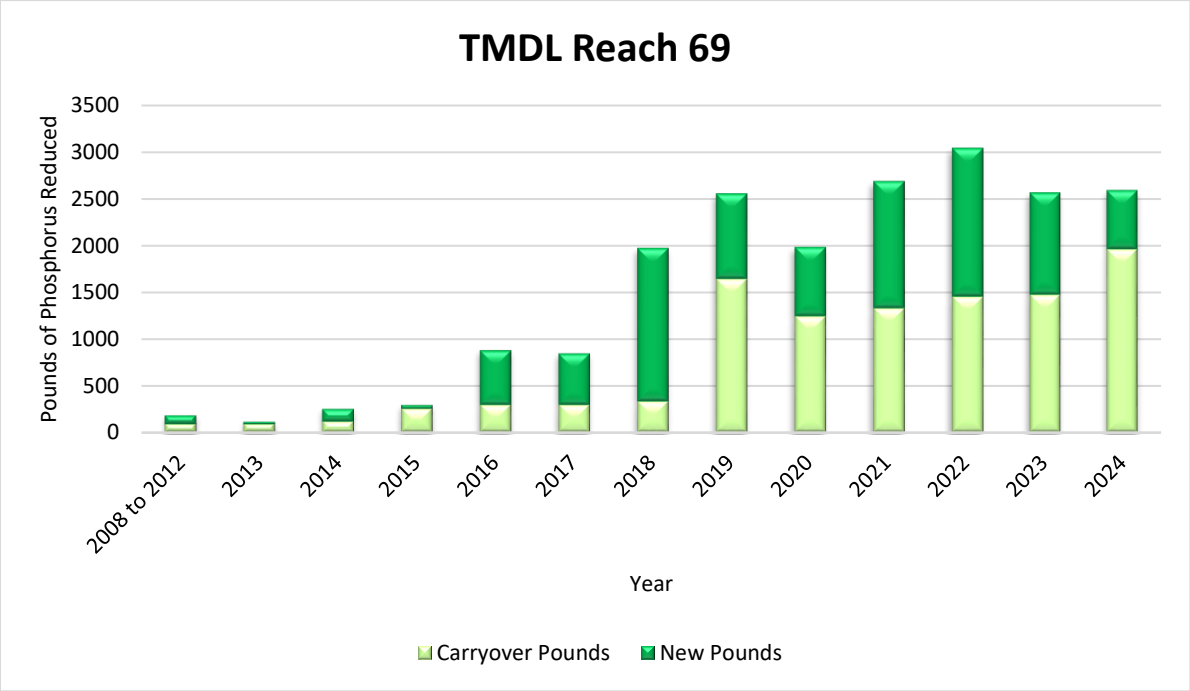

Figure 15. TMDL Reach 69 new and carryover pounds of phosphorus reductions by year.