

Maquoketa River Watershed Management Plan

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PROJECT PARTNERS



















City of Andrew City of Baldwin City of Cascade City of Delaware City of Delhi City of Dyersville City of Epworth City of Goose Lake City of Hopkinton City of Lamont City of La Motte City of Manchester City of Maquoketa City of Monticello City of New Vienna City of Preston City of Ryan City of Spragueville City of Strawberry Point City of Worthington City of Wyoming

Buchanan County Clinton County Delaware County Dubuque County Jackson County Jones County Linn County

Special thanks:

- Iowa Initiative for Sustainable Communities (IISC)
- The University of Iowa
- The University of Iowa School of Planning and Public Affairs
- Faculty Advisors: Steven Spears, Scott Spak, and Travis Kraus
- Alumni Mentor: Ben Curtis
- Maquoketa River Watershed Management Authority (MRWMA)
- MRWMA Project Partners: Lori Scovel and Jeff Tisl
- City of Manchester

Thank you!



What the plan is

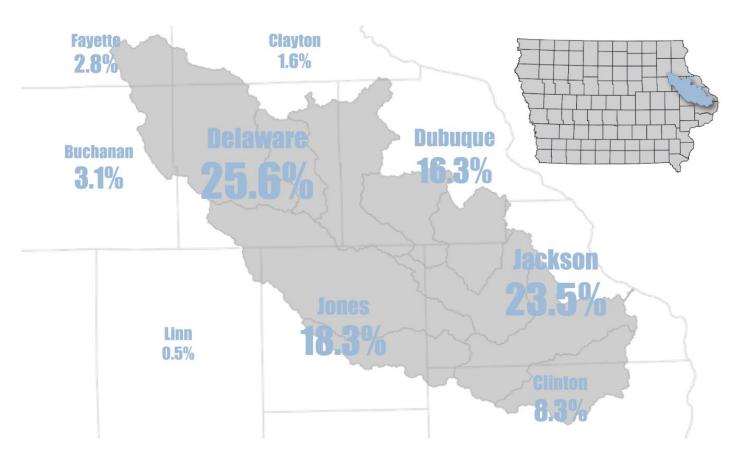
- A regional community-driven vision
- A guidebook for decision making
- An educational tool that seeks to elevate the quality of life via

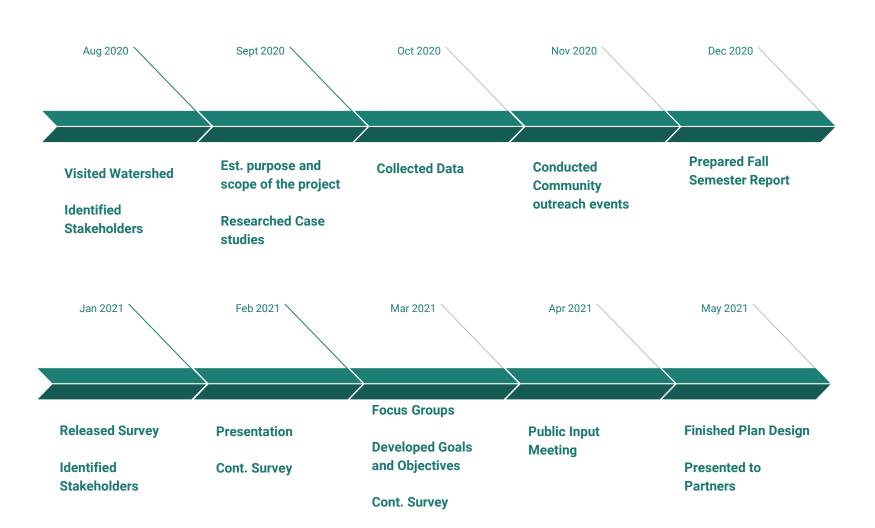


Scope and Limitation

- 1,100,000 acres of HUC-8 watershed (MRW) boundary
 - 9 Counties
 - **80** Townships
 - 72,000 Residents
 - NOT a regulatory tool

Maquoketa River Watershed Location





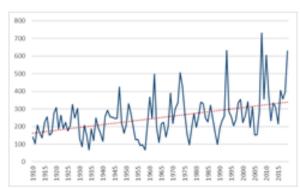
Existing Data Review

- 16 streams and 3 lakes have been listed as impaired as of 2018
- New impairment cause 'fish loss due to animal waste' for 3 streams in 2018
- Increasing runoff levels for last eleven decades
- Increasing irregularity in runoff levels
- Higher risk of flood and drought events as well as Soil erosion, sedimentation and pollutant wash-off from urban surfaces
- Major flooding events





Impaired Waters in MRW in red, 2018



Source: United States Geological

Survey 2020

Runoff levels in MRW, 1910-2015

Outreach



Commercial

MONTICELLO EXPRESS

Sentinel-Press





Outreach

- •The News & The Guide
- Monticello Express
- Delaware County Leader
- Cascade Pioneer
- •KDST Radio 99.3
- Dyersville Commercial
- Edgewood Reminder
- Maguoketa Sentinel
- KMAQ Radio & many more...





Press ws +++ Information +++ News +++ Information +++

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IOWA FARM BUREAU

Community Engagement

Survey

Our stakeholder reached over 400 respondents. It gathered views, values, and experiences related to water quality, flooding, recreation, conservation strategies, and information resources.





Community Engagement

Focus Groups

Five focus groups gathered more specific experiences and recommendations on reducing flooding and improving water quality.



Community Engagement





Public Meeting

The public meeting gathered input on the prioritization of the goals and objectives in the plan.





Goals and Objectives











Goal 1

Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration

Goal 2

Improve watershed flood management

Goal 3

Increase
watershed
awareness and
involvement
among
stakeholders

Goal 4

Preserve, protect
and improve
ecologically
sensitive habitats
and ecosystems in
the watershed

Goal 5



Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration





Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration



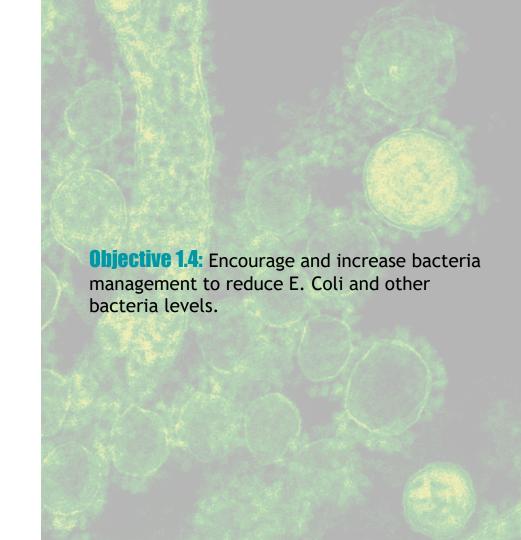


Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration

Objective 1.3: Encourage practices that slow the flow of urban stormwater to increase infiltration and reduce erosion.



Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration



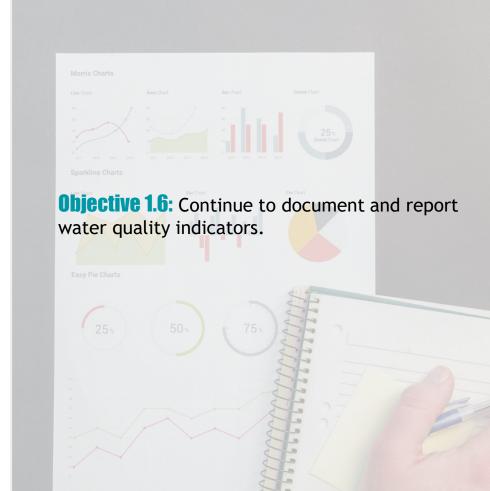


Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration

Objective 1.5: Encourage and increase the implementation of wetlands to filter water pollutants.



Improve water quality through techniques for nutrient management, erosion reduction, and increased infiltration



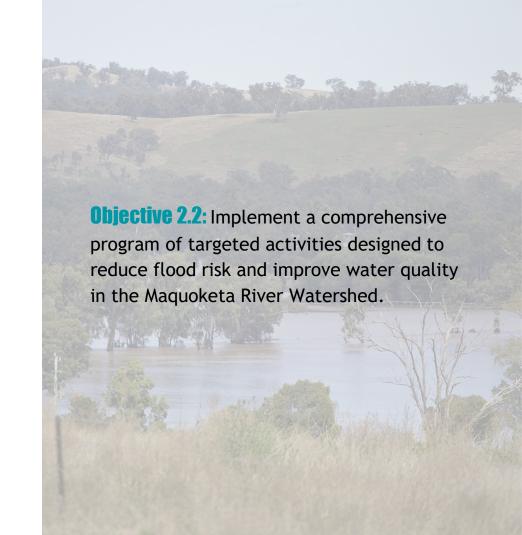


Improve watershed flood management

Objective 2.1: Advance the mission and goals of the WMA by fostering partnerships between agencies, organizations, and political entities regarding flood prevention and recovery.



Improve watershed flood management





Improve watershed flood management



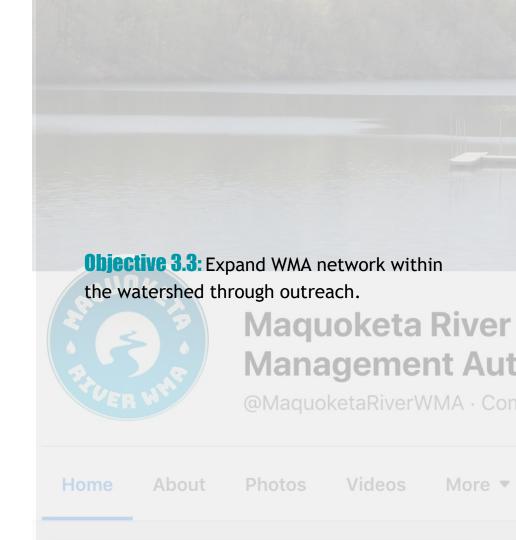




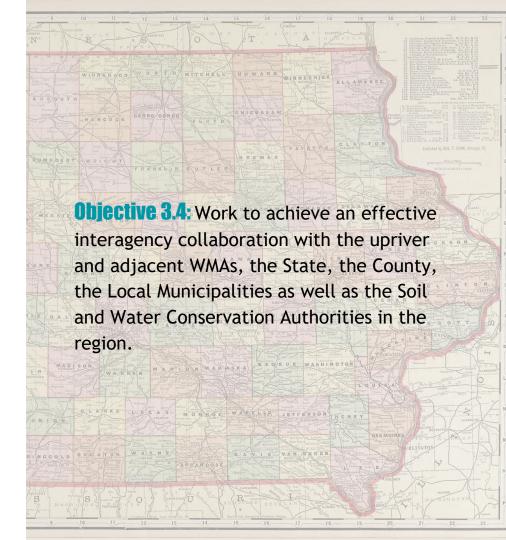














Preserve, protect
and improve
ecologically
sensitive habitats
and ecosystems in
the watershed

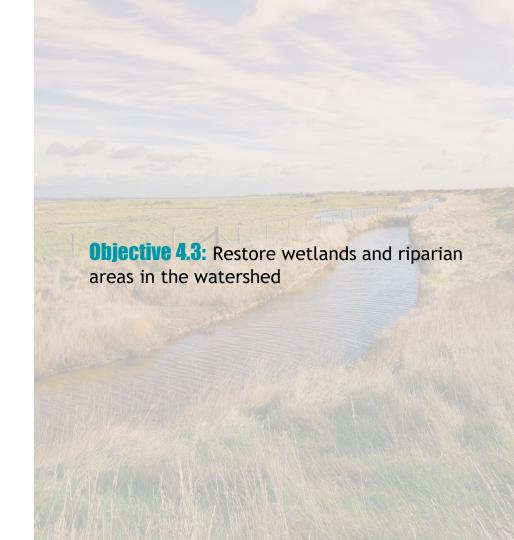
Objective 4.1: Prioritize natural resource sites in the watershed for preservation, protection and restoration



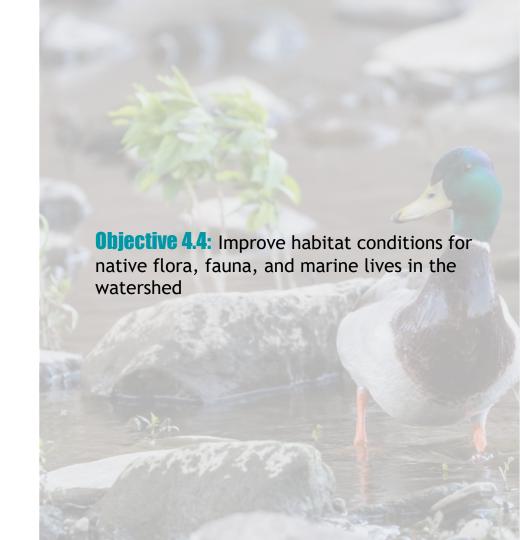
Preserve, protect
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Objective 4.2: Protect streambanks, shorelines, and buffer areas within the watershed

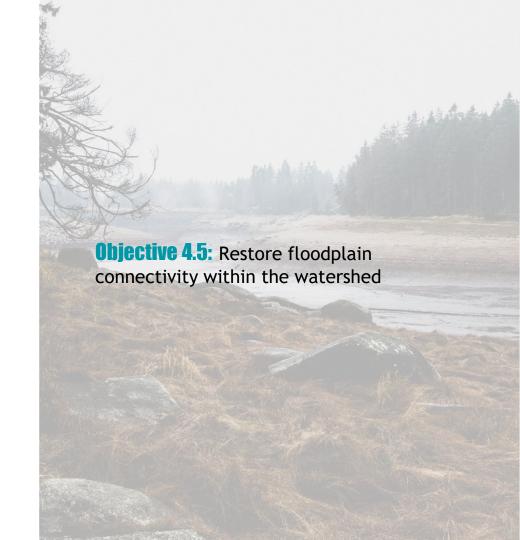












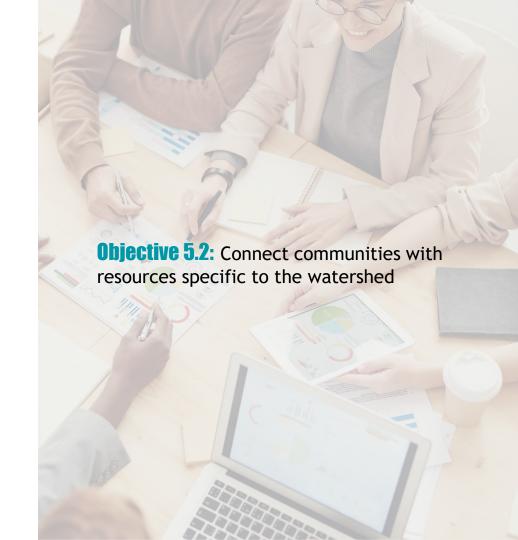




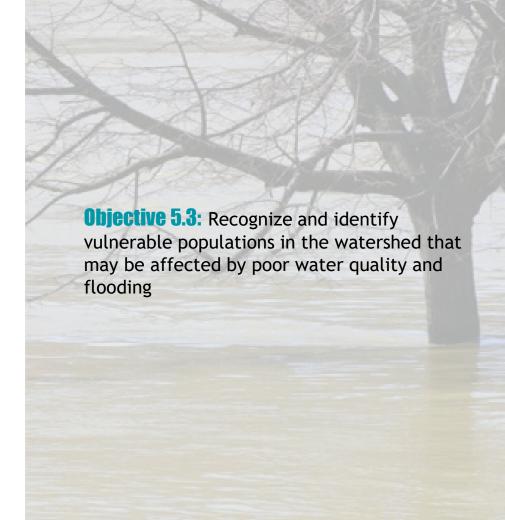












Next Steps



Thank you!

Questions?

