




Maquoketa River
Watershed
Management
Authority
34 members

WMA's 101- What is a Watershed Management Authority?

- ▶ Formed by an intergovernmental agreement (28E) by two or more political subdivisions within a specific eight-digit hydrologic unit code (HUC) watershed.
- ▶ Governed by a Board of Directors to undertake activities such as:
 - ▶ Assess and reduce flood risk
 - ▶ Assess and improve water quality
 - ▶ Educate residents of the watershed regarding flood risks and water quality
 - ▶ Allocate moneys made available to the Authority for purposes of water quality and flood mitigation.

	Paul D. Pate Secretary of State State of Iowa	28E Agreement	FOR OFFICE USE ONLY: FILED M510315 9/21/2017 12:04:24 PM
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PLEASE READ INSTRUCTIONS ON BACK BEFORE COMPLETING THIS FORM

Item 1. The full legal name, organization type and county of each participant to this agreement are:

	Full Legal Name	Organization Type	*County
Party 1	Lake Delhi Combined Rec. Facility & W.Q.Dist.	Other	Delaware
Party 2	Buchanan County	County	Buchanan
Party 3	Clinton County	County	Clinton
Party 4	Delaware County	County	Delaware
Party 5	Dubuque County	County	Dubuque

*Enter "Other" if not in Iowa

Item 2. The type of Public Service included in this agreement is: 0 Unknown Service Type

Board of Directors
Maquoketa River Watershed Management Authority
Administrative By-Laws

1. ADOPTION OF BY-LAWS
These administrative by-laws are hereby established in accordance with Section 6.3 of the Maquoketa River Watershed Management Authority, hereinafter referred to as the "Authority", 28E Agreement, same having been filed with the Iowa Secretary of State office on September 21, 2017. The Maquoketa River Watershed Management Authority shall be governed by a Board of Directors, as stipulated in Article 6 of the 28E Agreement.

2. PURPOSE
These bylaws shall direct and guide the management and day to day operation of the Authority.

3. DEFINITIONS

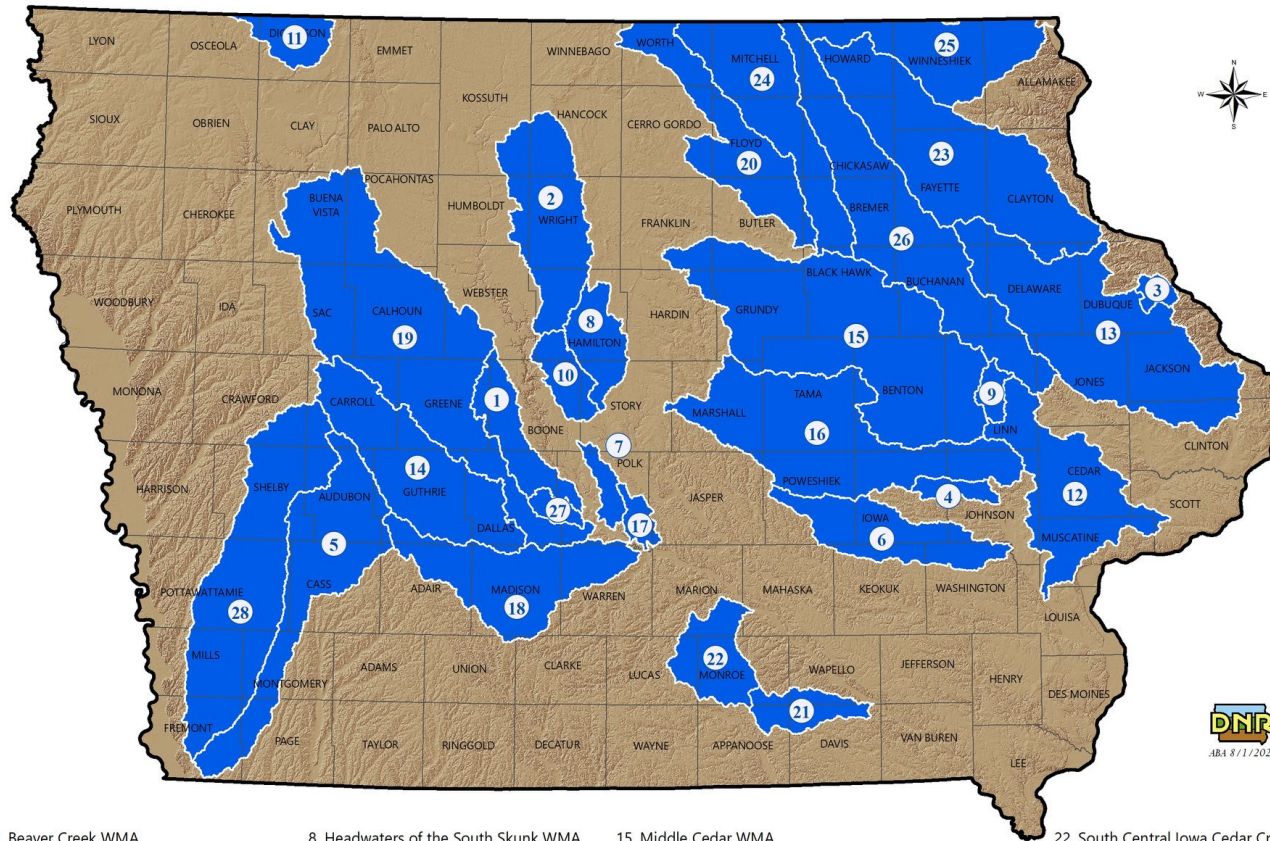
A. **Political Subdivision:** A city, county, taxing district or soil and water conservation district eligible for membership in the Authority.

B. **Member:** A Political Subdivision that has adopted the Maquoketa River Watershed Management Authority 28E Agreement. The member political subdivisions include:

a. **Counties:** Buchanan, Clinton, Delaware, Dubuque, Fayette, Jackson, Jones and Linn.

b. **Cities:** Andrew, Aurora, Baldwin, Cascade, Delaware, Delhi, Dyersville, Epworth, Farley, Goose Lake, Hopkinton, Lamont, La Motte, Manchester, Maquoketa, Monticello, New Vienna, Preston, Ryan, Spragueville, Strawberry Point, Worthington and Waukegan.

IOWA'S WATERSHED MANAGEMENT AUTHORITIES



- | | | | |
|---|---------------------------------------|--|--|
| 1. Beaver Creek WMA | 8. Headwaters of the South Skunk WMA | 15. Middle Cedar WMA | 22. South Central Iowa Cedar Creek WMA |
| 2. Boone River WMA | 9. Indian Creek WMA | 16. Middle Iowa WMA | 23. Turkey River WMA |
| 3. Catfish Creek WMA | 10. Ioway Creek WMA | 17. Mud Creek, Spring Creek & Camp Creek WMA | 24. Upper Cedar River WMA |
| 4. Clear Creek Watershed Coalition | 11. Little Sioux Headwaters Coalition | 18. North & Middle Rivers WMA | 25. Upper Iowa WMA |
| 5. East Nishnabotna Watershed Coalition | 12. Lower Cedar WMA | 19. North Raccoon River Watershed Management Coalition | 26. Upper Wapsipinicon River WMA |
| 6. English River WMA | 13. Maquoketa River WMA | 20. Shell Rock River Watershed Management Coalition | 27. Walnut Creek WMA |
| 7. Fourmile Creek WMA | 14. Middle-South Raccoon WMA | 21. Soap Creek Watershed Board | 28. West Nishnabotna Watershed Coalition |

- 28 WMAs across the state, with only 9 having coordinators.

Timeline of MR WMA

2017- Maquoketa River WMA applied to the state and was officially recognized on 10.24.17

2019- Applied for WMA Watershed Planning Grant - \$100,000

- I. Hired Watershed Coordinator
- II. Partnered with University of Iowa
- III. Lasted from July 2021 – December 2022

2020- City of Manchester gifted U of Iowa Planning Student projects to complete Phase I of the WMP

2022 February- Board approved 6 month extension of Watershed Coordinator after DNR grant exhausted in DEC 2022. Hydrosensor Funding U of Iowa announcement.

2022-May- Watershed Management Plan Complete Phase II

2022- September –Hosted Field day at Central Park in Jones County

2023- March- Board Approved Year long term for Watershed Coordinator FY24

2023 April- Awarded \$30,500 from DNR for Watershed Signs

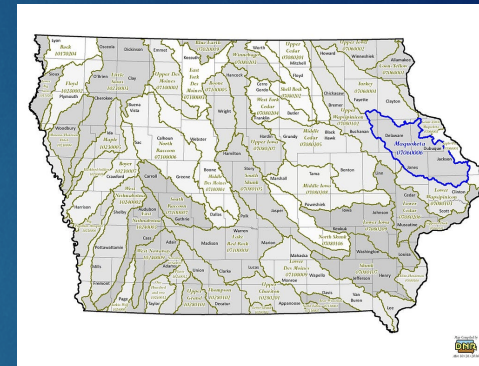
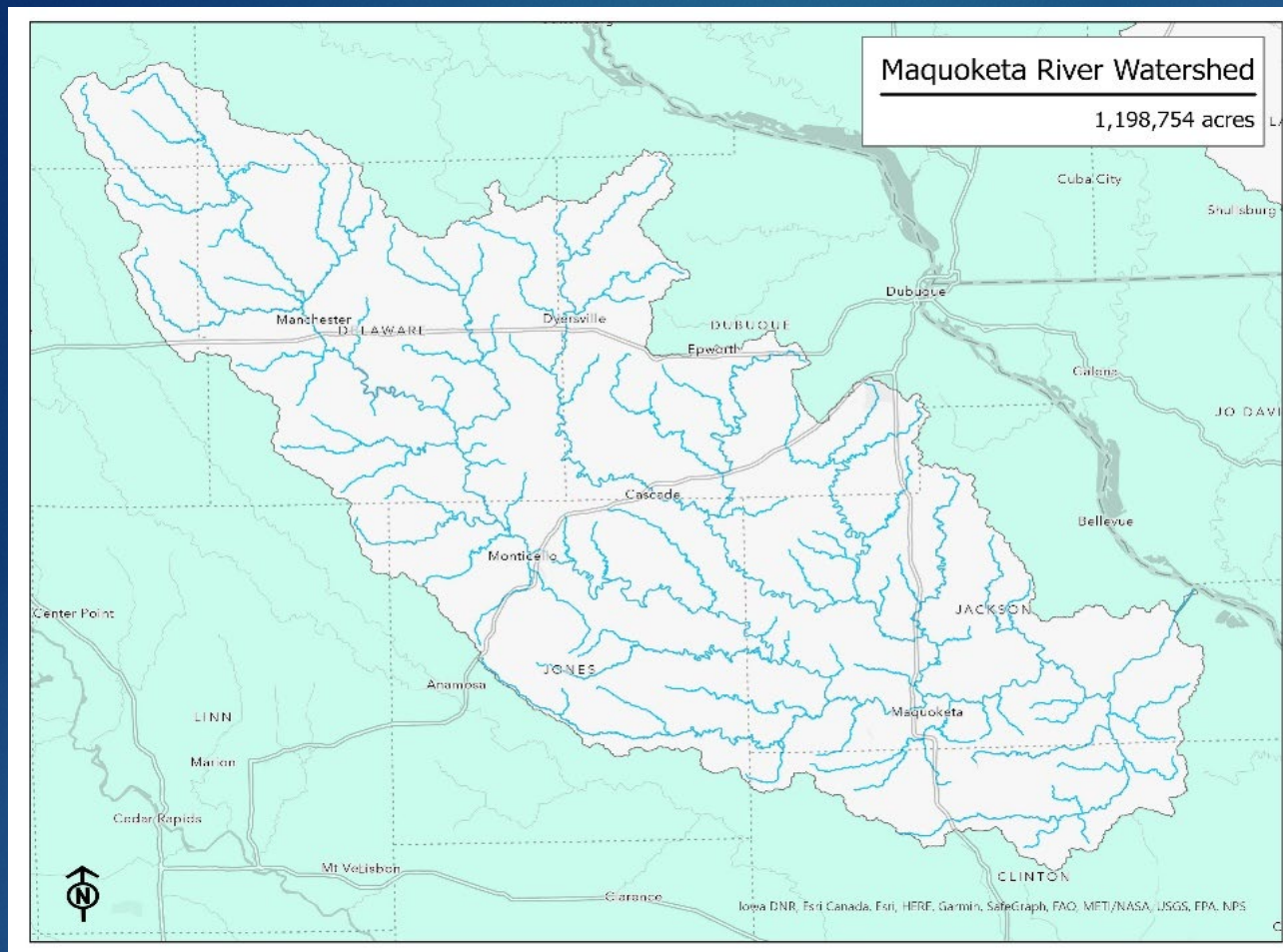
2023 August- Manchester Wetland Unveiling

2023- October- Awarded \$250,000 Farmer to Farmer Cover Crop Grant

2023- December- Awarded \$15,000 Clif Family Foundation for stream sensors

2024- March- Board renews coordinator contract for FY25

2024-April- August- Cover Crop Cost Share available.



The Maquoketa River WMA:

- Covers 9 counties
- Has 1 full time coordinator primarily funded by a self funded formula
- 34 Board of Director Community Members- with one representee from each entity.
- 5 years of Water sampling Data
- 53 Watershed Signs installed

WATERSHED COORDINATORS PLAY A CRUCIAL ROLE

- ▶ Seek and apply for project grant funding.
- ▶ Assist in development of watershed management plan.
- ▶ Provide leadership in community outreach efforts related to watershed planning.
- ▶ Represent the WMA as a liaison between government agencies, cities, counties and SWCDs.
- ▶ Organize and assist with water quality monitoring.
- ▶ Coordinate Executive Committee and Board of Directors Meetings and record minutes.

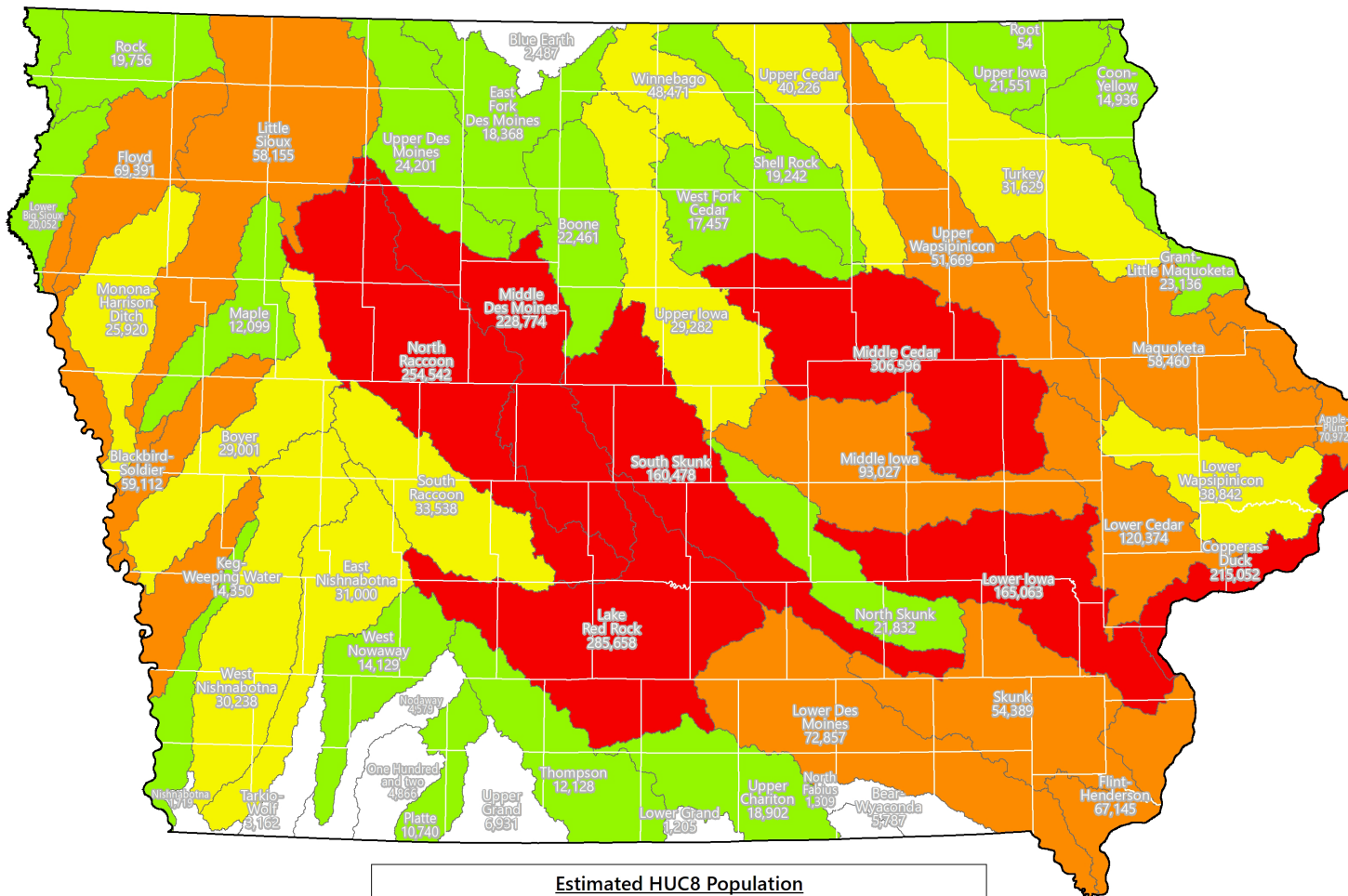
How do we fund our WMA and Coordinator...

Self Funding Formula

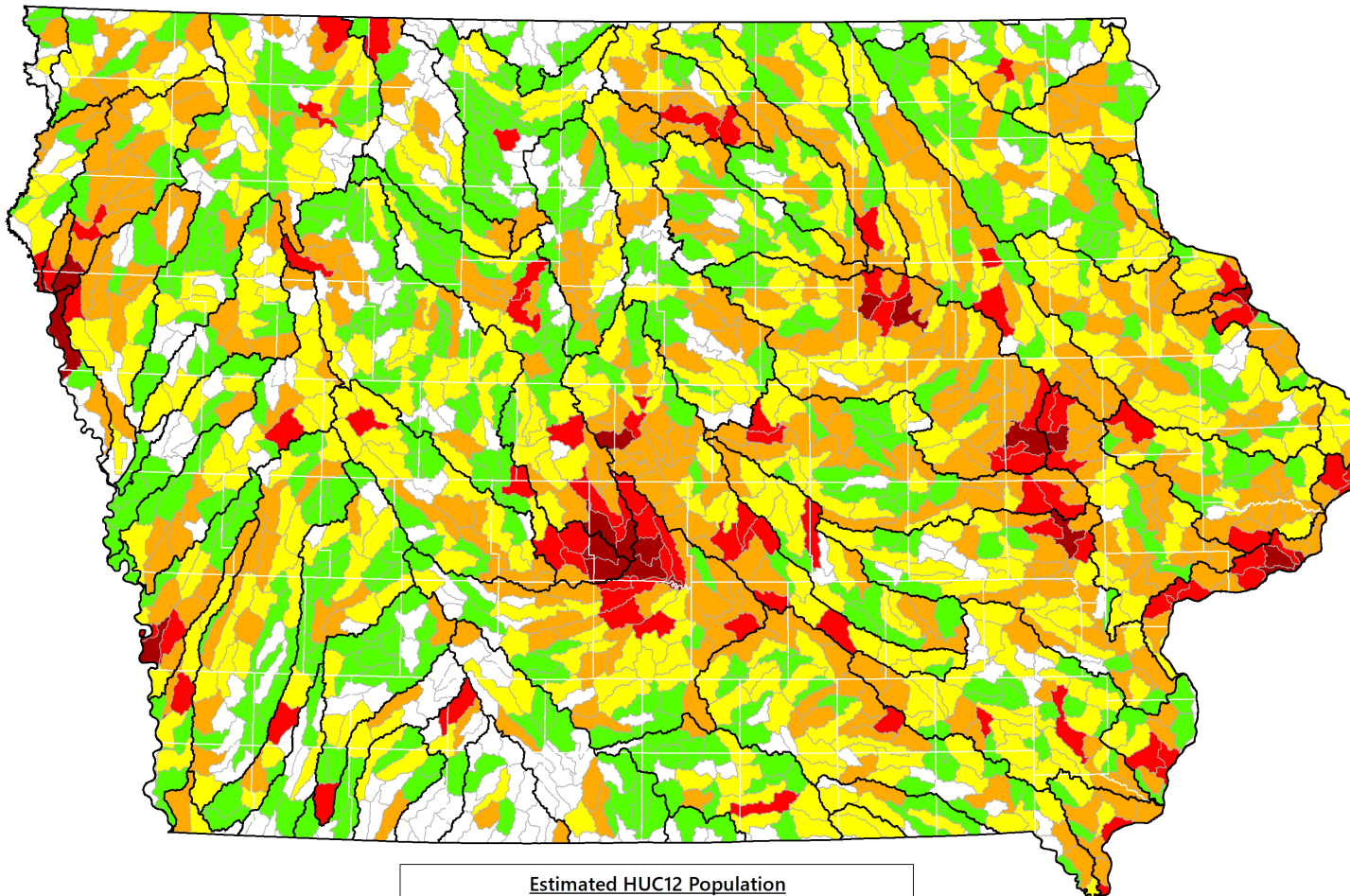
Leveraging local fund for watershed improvement:

- ▶ STRICTLY VOLUNTARY
- ▶ \$1 per person with population based on the 2010 census
- ▶ Counties asked to contribute for the population living in the unincorporated areas of their county within the watershed area. Determined by census tract data and estimating how much each census tract were in the watershed.
- ▶ Many member counties also chose to fund smaller member municipalities within their jurisdiction for which the voluntary financial commitment might be a burden.

ESTIMATED POPULATION BY HUC8, 2020



ESTIMATED POPULATION BY HUC12, 2020



Estimated HUC12 Population

0 - 250	501 - 1,000	5,001 - 25,000
251 - 500	1,001 - 5,000	25,001 - 84,977

Data Table used to create maps

147	070600051203	Deer Creek-Mississippi River	1,845	21.9	13,993	84	07060005	Apple-Plum	0706000512	Deer Creek-Mississippi River		
148	070600060101	Penn Creek	604	16.3	10,451	37	07060006	Maquoketa	0706000601	Plum Creek		
149	070600060102	Headwaters Plum Creek	1,625	49.3	31,553	33	07060006	Maquoketa	0706000601	Plum Creek		
150	070600060103	Plum Creek	365	23.6	15,100	15	07060006	Maquoketa	0706000601	Plum Creek		
151	070600060201	Bruce Creek-Maquoketa River	692	33.2	21,261	21	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
152	070600060202	South Fork Maquoketa River	631	56.9	36,411	11	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
153	070600060203	Fenchel Creek-Maquoketa River	799	29.6	18,932	27	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
154	070600060204	Lindsey Creek	493	19.9	12,749	25	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
155	070600060205	Honey Creek	827	27.6	17,692	30	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
156	070600060206	Sand Hagen Creek-Maquoketa River	897	46.9	30,004	19	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
157	070600060207	Coffins Creek	1,401	55.6	35,593	25	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
158	070600060208	Sand Creek	461	24.8	15,862	19	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
159	070600060209	Spring Branch	862	18.7	11,959	46	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
160	070600060210	Allison Creek-Maquoketa River	4,856	54.2	34,661	90	07060006	Maquoketa	0706000602	Headwaters Maquoketa River		
161	070600060301	Little Bear Creek-Bear Creek	845	41.4	26,472	20	07060006	Maquoketa	0706000603	Bear Creek		
162	070600060302	Beers Creek	572	27.3	17,459	21	07060006	Maquoketa	0706000603	Bear Creek		
163	070600060303	Rat Run-Bear Creek	962	42.2	26,981	23	07060006	Maquoketa	0706000603	Bear Creek		
164	070600060401	Buck Creek-Maquoketa River	888	52.4	33,528	17	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
165	070600060402	Silver Creek	653	39.0	24,949	17	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
166	070600060403	Deer Creek	683	16.7	10,708	41	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
167	070600060404	West Kitty Creek	568	24.9	15,921	23	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
168	070600060405	Kitty Creek	1,542	26.1	16,733	59	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
169	070600060406	Cline Creek-Maquoketa River	3,282	45.6	29,159	72	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
170	070600060407	Farm Creek	305	23.6	15,112	13	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
171	070600060408	Jordan Creek-Maquoketa River	1,183	60.4	38,625	20	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
172	070600060409	Mineral Creek	731	49.1	31,414	15	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
173	070600060410	Pine Creek-Maquoketa River	368	31.9	20,410	12	07060006	Maquoketa	0706000604	Mineral Creek-Maquoketa River		
174	070600060501	Curran Creek-Whitewater Creek	3,919	44.5	28,494	88	07060006	Maquoketa	0706000605	Whitewater Creek		
175	070600060502	Johns Creek	928	34.0	21,742	27	07060006	Maquoketa	0706000605	Whitewater Creek		
176	070600060503	Whitewater Creek	550	34.6	22,136	16	07060006	Maquoketa	0706000605	Whitewater Creek		
177	070600060601	Hewitt Creek	1,670	35.7	22,833	47	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
178	070600060602	Bear Creek	925	37.7	24,138	25	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
179	070600060603	Coffee Creek-North Fork Maquoketa River	2,153	44.4	28,431	48	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
180	070600060604	Durion Creek-North Fork Maquoketa River	2,828	34.1	21,797	83	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
181	070600060605	070600060605	968	40.6	26,001	24	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
182	070600060606	Village of Cascade-North Fork Maquoketa River	1,510	25.7	16,438	59	07060006	Maquoketa	0706000606	Headwaters North Fork Maquoketa River		
183	070600060701	Prairie Creek-Lytie Creek	411	24.1	15,400	17	07060006	Maquoketa	0706000607	Lytie Creek		
184	070600060702	Headwaters Lytie Creek	544	17.7	11,305	31	07060006	Maquoketa	0706000607	Lytie Creek		
185	070600060703	Buncombe Creek	225	14.8	9,490	15	07060006	Maquoketa	0706000607	Lytie Creek		
186	070600060704	Otter Creek	170	18.6	11,878	9	07060006	Maquoketa	0706000607	Lytie Creek		
187	070600060705	Washington Mills-Lytie Creek	203	22.7	14,503	9	07060006	Maquoketa	0706000607	Lytie Creek		
188	070600060706	Lytie Creek	161	17.6	11,245	9	07060006	Maquoketa	0706000607	Lytie Creek		
189	070600060801	Cline Branch-North Fork Maquoketa River	449	44.5	28,472	10	07060006	Maquoketa	0706000608	North Fork Maquoketa River		
190	070600060802	Farmers Creek	567	47.8	30,582	12	07060006	Maquoketa	0706000608	North Fork Maquoketa River		
191	070600060803	Buck Creek-North Fork Maquoketa River	272	23.2	14,854	12	07060006	Maquoketa	0706000608	North Fork Maquoketa River		
192	070600060804	Cedar Creek-North Fork Maquoketa River	516	27.8	17,781	19	07060006	Maquoketa	0706000608	North Fork Maquoketa River		

A summary table which summed the population for each HUC12. With that information tallied by HUC12, simply aggregated the HUC12 populations for their larger HUC10s and 8s.

The summed population tables were then joined to their corresponding GIS boundary file to compile the maps.

WMA Budget Spreadsheet

showing budgeted vs actual #s.

Census Increase column and \$1.5 increase column

Maquoketa River WMA FY24 Budget Items	FY2022 BUDGET 34 members	2020 Census increase or decrease per capita from 2010	FY2023 Budget with 1.5 increase 34 Members	FY 2023 Actual as of February 25, 2023	FY2024 Budget with 34 Members Voluntary Funding Commitment
REVENUES (Estimated)					
Member Contributions					
LAKE DELHI DISTRICT	\$ 514.00	\$515-no change	\$ 771.00	\$771.00	\$771.00
BUCHANAN COUNTY	\$ -	\$825(County -2%)	\$ 1,237.00	\$1,237.00	\$1,237.00
CLINTON COUNTY	\$ 2,460.00	\$2354 (County -4.3%)	\$ 3,531.00	\$3,531.00	\$3,531.00
DELAWARE COUNTY	\$ 9,663.00	\$9566 (County -1%)	\$ 14,349.00	\$12,000.00	\$14,349.00
DUBUQUE COUNTY	\$ 4,846.00	\$4953 (County +2.2%)	\$ 7,429.00		\$7,429.00
FAYETTE COUNTY opted out in 2020	NA				
JACKSON COUNTY	\$ 5,649.00	\$5485 (County -2.9%)	\$ 8,227.00	\$8,227.00	\$8,227.00
JONES COUNTY	\$ 2,526.50	\$5109 (County +1.1%)	\$ 7,663.00	\$5,053.00	\$7,663.00
LINN COUNTY	\$ -	\$197 (County -6.6%)	\$ 295.00	\$211.00	\$295.00
DELAWARE SWCD	\$ 700.00				\$594.00
DUBUQUE SWCD	\$ 400.00				\$324.00
FAYETTE SWCD	\$ -				
JACKSON SWCD	\$ -				\$486.00
JONES SWCD					\$270.00
LINN SWCD	\$ -				
ANDREW (Jackson County Support)	\$ 180.00	\$380 (-54)	\$ 568.00	\$568.00	\$568.00
AURORA	\$ -				
BALDWIN (Jackson County Support)		\$99 (-10)	\$ 148.00	\$148.00	\$148.00
CASCADE	\$ 2,180.00	\$2407(+227)	\$ 3,610.00	\$3,610.00	\$3,610.00
DELAWARE	\$ -	\$142 (-17)	\$ 213.00		\$213.00
DELHI		\$420 (-40)	\$ 630.00	\$630.00	\$630.00
DYERSVILLE	\$ 4,071.00	\$4477 (+419)	\$ 6,715.00	\$6,715.00	\$6,715.00
EPWORTH- did not budget for FY24	NA	\$2023 (+163)	\$ 3,034.00		
FARLEY	\$ -				
GOOSE LAKE		\$239 (-1)	\$ 359.00		\$359.00
HOPKINTON	\$ 627.00	\$622 (-6)	\$ 933.00	\$622.00	\$933.00
LAMONT	\$ -	\$429 (-32)	\$ 643.00		\$643.00
LAMOTTE (Jackson County Support)		\$237 (-23)	\$ 355.00	\$355.00	\$355.00
MANCHESTER	\$ 5,179.00	\$5065 (-114)	\$ 7,597.00	\$7,597.00	\$7,597.00
MAQUOKETA	\$ 1,500.00	\$6128 (-13)	\$ 9,192.00	\$4,000.00	\$9,192.00
MONTICELLO	\$ 3,000.00	\$4040 (+244)	\$ 6,060.00	\$6,060.00	\$6,060.00
NEW VIENNA	\$ -				
PRESTON (Jackson County Support)	\$ -	\$949 (-63)	\$ 1,423.00	\$1,423.00	\$1,423.00
RYAN	\$ -	\$350 (-11)	\$ 525.00		\$525.00
SPRAGUEVILLE (Jackson County Support)	\$ -	\$92 (+11)	\$ 138.00	\$138.00	\$138.00
STRAWBERRY POINT	\$ -	\$1155 (-124)	\$ 1,732.00		\$1,732.00
WORTHINGTON		\$382 (-19)	\$ 573.00		\$573.00
WYOMING	\$ 100.00	\$523 (+8)	\$ 784.00	\$100.00	\$784.00
Total Member Contributions	\$ 50,000.00				\$87,374.00

Budget Request Letters sent to members in fall/end of year...



Maquoketa River Watershed Management Authority

Limestone Bluffs Resource Conservation & Development, Inc.

PO Box 421 • Mechanicsville, IA 52306 • 563-221-1930

Erin Erickson, Watershed Coordinator • erin@limestonebluffs.org • 319.826.1132

Don Schwenker, MR WMA Chair • dschwenker@jacksoncounty.iowa.gov • 563.875.7724

December 2023

FY25 Budget Request- Jackson County

The Maquoketa River Watershed Management Authority (MR WMA) formed in late 2017 and now consists of 34 Cities, Counties, Soil and Water Conservation Districts and one Lake District in Eastern Iowa. All members work to address water quality, water quantity (flooding), as well as other issues associated with the Maquoketa River watershed area.

Per the 28E Agreement and governing By-Laws, every member of the MR WMA is allowed one representative to serve on the Board of Directors. Your representative to the MR WMA Board is Don Schwenker

The MR WMA was recently awarded (Sept. 2023) a \$250,000 Farmer-to-Farmer grant from the DNR. This grant will be used to create a cost share for historically underserved farmers within the watershed beginning in 2024. The Cover Crop Initiative will offer farmers up to \$40 an acre (\$30 from MR WMA and \$10 from Practical Farmers of Iowa match) to plant cover crops on their land. With the total acreage treated totaling about 7300 acres, this will allow us to focus our efforts to about 200 acres per county over a three-year range. More details will be shared in a flyer that will be published before the end of 2023.

Statement of Intended Use: Ongoing Project- MR WMA Watershed Management Plan Implementation- The objectives of our project include the ongoing work of the Maquoketa River WMA to conduct meaningful outreach related to implementation of the recently completed, Watershed Management Plan. The plan identifies priority areas where implementation of conservation practices will have maximum impacts. The MR WMA will also continue a water monitoring program with the testing of 45 sites across the watershed, provide match funding for grant opportunities, delivery of educational events on watershed related issues in member communities and active support of conservation efforts within the watershed area. To see past projects/ events from 2023 visit our [website](https://www.mrwma.org/). To accomplish this work, the MR WMA needs the sustained efforts of a dedicated watershed coordinator and support from LB RC&D.

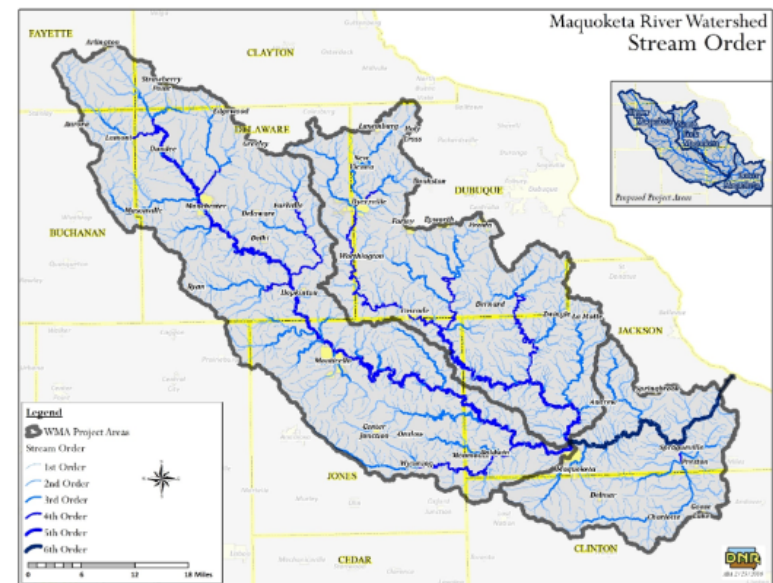
The MR WMA is requesting a funding investment for Jackson County of \$8227: \$1.50 per capita for FY25 for areas located within the defined watershed area. This does not include the entire county, only areas covered by the Maquoketa River watershed. Invoice to be sent July 2025.

Please Consider funding these Jackson County Communities:

Andrew for \$568; Baldwin for \$148; La Motte for \$643; Preston for \$1423; Spragueville for \$138

Thank you for your support!

Maquoketa River Watershed Boundary



Invoices sent beginning of fiscal year (by end of July)



Maquoketa River Watershed Management Authority
Limestone Bluffs Resource Conservation & Development, Inc.
PO Box 421 • Mechanicsville, IA 52306 • 563-221-1930
Erin Erickson, Watershed Coordinator • erin@limestonebluffsacd.org • 319.826.1132
Don Schwenker, MR WMA Chair • dschwenker@jacksoncounty.iowa.gov • 563.875.7724

FY25 INVOICE

Limestone Bluffs RC&D
PO Box 421
Mechanicsville, IA 52306
563-221-1930

Date: July 29, 2024

Bill to:
Jackson County Board of Supervisors
201 West Platt
Maquoketa IA 52060

Maquoketa River Watershed Management Authority	Amount
FY25 financial commitment – unincorporated area	\$8227
Please Consider – FY25 Small Community commitment: -Andrew...\$568 -Baldwin...\$148 -LaMotte...\$355 -Preston...\$1423 -Spragueville...\$138	\$2632
Please Consider - 2024 Jackson County water testing fees (Jackson SWCD does not reimburse MR WMA for these costs) 9 sites x 3 dates x \$18 per test	\$486
Total Due 60 days from receipt	\$11,345

Please make check payable to Maquoketa River WMA.

Thank you!

MR WMA appreciates your support!



Maquoketa River Watershed Management Authority Newsletter

July 2024



Margaret Hogan (recently retired) giving a tour of her prairie planted by her students when she was a science teacher.
The milkweed and other plant species were thriving with butterflies and pollinators.

Margaret and John Hogan, gave us a tour of their conservation farm while answering questions from folks. Margaret was a science teacher for over 20 years and her love for teaching shined bright by providing her enthusiastic stories of how they've embraced conservation on their land with prairie, cover crops and no till. Afterwards, everyone enjoyed pizza lunch with a dessert of soft serve Blue Bunny ice cream donated by the [Delaware County Dairy Promoters](#). Thank you to all who joined us!

As a reminder, our cost share closes on August 1st, 2024. Click on the link below to learn more and access the application.



Cover Crop Initiative Application | limestonebluffs

A locally-led team of 34 county, municipal and lake district members driving financial and social benefits through sustainable water resource conservation for residents in the Maquoketa River Watershed in Eastern Iowa.

Our monthly eNews provides project updates and events happening in the watershed.

We're always looking for more projects and news to share!!



[Home](#)[News and Events](#)[Members](#)[Projects](#)[Newsletter](#)[Past Meetings](#)[Watershed Management Plan](#)[Current Conditions](#)[Glossary](#)[Support our work](#)

Watershed Management Plan

Executive Summary:

The purpose of the Maquoketa River Watershed Management Authority (MRWMA) is to improve water quality and mitigate flooding through a holistic approach to watershed management.

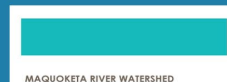
Phase I



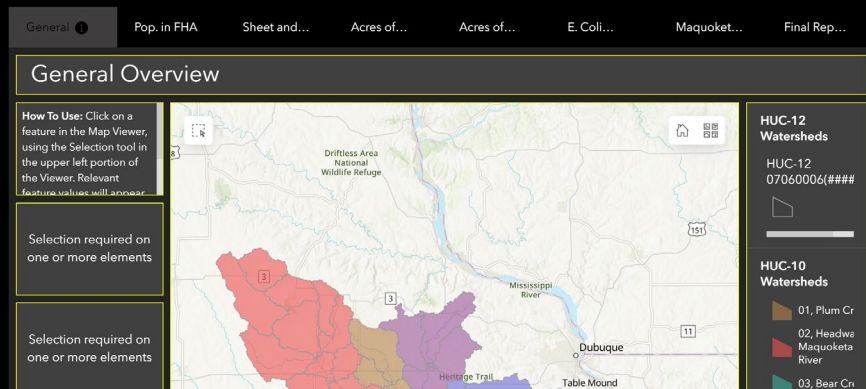
[Click box to download document](#)

The 2020-21 University of Iowa, graduate planning team sought to

Phase II



Interactive Map



Our website hosts our WMP, our past newsletters and other events and information.

Maquoketa River Cover Crop Initiative

NOW OPEN! Apply today!

Farmer to Farmer Grant

for Landowners in the Maquoketa Watershed

Up to \$40 Cost Share

COVER CROP INITIATIVE

For cover crops planted in Fall of 2024, 2025 and 2026

Must meet the Historically Underserved Farmer and Rancher criteria to be applicable according to the USDA

- Beginning Farmer
- Limited Resource Farmer
- Socially disadvantaged farmer
 - Veteran farmer
 - Women Farmer

Scan the QR Code to Apply or go to <https://bit.ly/MRWMA>

For more information visit:
<https://www.limestonebluffsrrcd.org/maquoketariverwma>



Awarded \$250,000 Farmer to Farmer Grant from the Iowa DNR

Offering a \$40/acre cost share for a cover Crops by partnering with PFI

For Historically Underserved Farmers according to USDA

- First time farmers within 10 years
- Meet the income threshold
- Minorities
- Veterans

Follow Maquoketa River WMA on Social Media



@MaquoketaRiverWMA



@maquoketariverwma



maquoketa-river-watershed-management-authority

Website-

www.maquoketariverwma.org





Contacts:



Watershed Coordinator:

Erin Erickson-

Email:

erin@limestonebluffsrcd.org

Phone: 319-826-1132

Environmental Specialist - GIS

Analyst:

Andy Asell –

Email:

andy.asell@dnr.iowa.gov

Phone: 515-250-3303 (cell)