ADJOURNED MEETING OF THE COUNTY BOARD OF COMMISSIONERS November 22, 2022 – BOARD AGENDA

Government Center Board Room

The public is invited to join the meeting remotely by phone call 1-415-655-0001, (access code): 2553 420 4660; (meeting password): 7282.

- 9:00 1) J. Mark Wedel, County Board Chair
 - A) Call to Order
 - B) Pledge of Allegiance
 - C) Approval of Agenda
- 9:05 D) Health & Human Services (see separate HHS agenda)
- 9:50 Break
- E) Citizens' Public Comment Comments from visitors must be informational in nature and not exceed (5) minutes per person (when there is a large number of speakers to be heard, the Board of Commissioners may shorten this time). The County Board generally will not engage in a discussion or debate in those five minutes but will take the information and find answers if that is appropriate. As part of the County Board protocol, it is unacceptable for any speaker to slander or engage in character assassination at a public Board meeting.

 Anyone attending virtually wishing to speak during the public comment period should notify the County Administrator's office at 218-927-7276 option 7 no later than 2:30 P.M. on the Monday before the meeting.
 - 2) Consent Agenda All items on the Consent Agenda are considered to be routine and have been made available to the County Board at least two days prior to the meeting; the items will be enacted by one motion. There will be no separate discussion of these items unless a Board member or citizen so requests, in which event the item will be removed from this Agenda and considered under separate motion.
 - A) Correspondence File September 13, 2022 to September 26, 2022
 - B) Approve September 13, 2022 County Board Minutes
 - C) Approve Electronic Funds Transfers
 - D) Approve Commissioner's Vouchers
 - E) Approve Auditor's Vouchers November 4, 2022
 - F) Approve Auditor's Vouchers Sales Use and Diesel Tax, October 2022
 - G) Approve Auditor's Vouchers Oct, Nov Settlement 11.21.2022
 - H) Approve Manual Warrants/Voids/Corrections Credit Card Fees, LLCC October 2022
 - I) Approve Manual Warrants/Voids/Corrections Returned Payment, NSF
 - J) Approve Manual Warrants/Voids/Corrections MTG Reg and Deed Tax
 - K) Approve Manual Warrants/Voids/Corrections FSA Claims 1
 - L) Approve Manual Warrants/Voids/Corrections FSA Claims 2
 - M) Approve Manual Warrants/Voids/Corrections FSA Claims 3
 - N) Approve Manual Warrants/Voids/Corrections FSA Claims 4
 - O) Approve Manual Warrants/Voids/Corrections ELAN Paid 10.27.22
 - P) Approve Manual Warrants/Voids/Corrections LLCC Refund
 - Q) Approve Manual Warrants/Voids/Corrections Auto Deduct

- R) Approve Manual Warrants/Voids/Corrections FSA Claims 5
- S) Approve Manual Warrants/Voids/Corrections FSA Claims 6
- T) Approve Extension of 2020 MN Board of Water and Soil Resources NRBG
- **U) Approve Committee Assignment Changes**
- V) Approve Medical Examiner Agreement 2023
- W) Approve Purchase of Thermal Viewer Sheriff's Office
- X) Approve Aitkin County Master Services Agreement CLA
- Y) Approve 2023 Newspaper Bid Specifications
- Z) Adopt Resolution: County Hazard Mitigation Plan
- AA) Adopt Resolution: Final Contract Payment Contract No. 20212
- **BB) Adopt Resolution: GIA Funding 2023**
- CC) Adopt Resolution: Off Sale Liquor License Imperial Operating
- **DD) Adopt Resolution: Caps Donation**
- 10:00 3) John Welle County Engineer
 - A) Final Overview of CH 3 (former TH 232) Costs
- 10:10 4) Committee Updates
- 10:40 5) Jessica Seibert County Administrator
 - A) Administrator Updates
 - B) Closed Session Under MN Statute 13D.03 Subd.1(b) Labor Negotiations
- 11:15 Adjourn

AITKIN COUNTY BOARD

November 8, 2022

The Aitkin County Board of Commissioners met this 8th day of November 8, 2022 at 9:07 a.m. at the Aitkin Government Center with the following members present: Board Chair J. Mark Wedel, Commissioners Donald Niemi, Ann Marcotte, Brian Napstad, Laurie Westerlund, County Administrator Jessica Seibert, and Administrative Assistant Brittany Searle.

Call to Order

Motion made by Commissioner Napstad, seconded by Commissioner Westerlund and carried, all voting yes to approve the November 8, 2022 agenda.

Approved Agenda

There was no Citizens' Public Comment

Citizens' Public Comment

Motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voting yes to approve the Consent Agenda as follows.

Consent Agenda

- A) Correspondence File October 25, 2022 to November 7, 2022
- B) Approve October 25, 2022 County Board Minutes
- C) Approve Electronic Funds Transfers
- D) Approve Commissioner Vouchers: General \$182,955.83, Reserves \$105,031.38, Road & Bridge \$82,723.41, HHS \$31,025.70, Trust \$18,596.16, Forest Development \$26,454.28, Taxes & Penalties \$230.00, LLCC \$11,769.12, Parks \$28,331.36, COVID \$13.333.33 for a total of \$500.450.57.
- E) Approve Auditor's Vouchers R&B Contracts: Road & Bridge \$102,850.81 for a total of \$102,850.81.
- F) Approve Auditor's Vouchers School Advance 10.25.22: Townships \$1,746,301.30 for a total of \$1,746,301.30.
- G) Approve Auditor's Vouchers Auditor Warrant 10.28.22: General \$833.00, Road & Bridge \$232,800.00 for a total of \$233,633.00.
- H) Approve Manual Warrants/Voids/Corrections Participant Fees September & October: \$1,261.35 for a total of \$1,261.35.
- I) Approve Manual Warrants/Voids/Corrections Electronic Chargeback 10.20.2022: Taxes \$1,743.00 for a total of \$1,743.00.
- J) Approve Manual Warrants/Voids/Corrections FSA Claims and State General Tax Advance: General \$61.12, State \$844,295.78 for a total of \$844,356.90.
- K) Approve Manual Warrants/Voids/Corrections Returned NSF Check: General \$330.00 for a total of \$330.00.
- L) Approve Manual Warrants/Voids/Corrections ELAN Paid 10.13.22: General \$900.68, HHS \$653.3, Trust \$199.98, LLCC \$47.27 for a total of \$0.00.
- M) Approve Manual Warrants FSA Claims 10.27.22: General \$10.33 for a total of \$10.33.
- N) Approve Manual Warrants FSA Claims 11.01.22: General \$1,500.72 for a total of \$1,500.72.
- O) Approve Manual Warrants MN Care Tax 4th Quarter: HHS \$111.05 for a total of \$111.05.
- P) Approve Fire Protection Contract Town of Ball Bluff
- Q) Approve Village Pump Tobacco License
- R) Approve Easement Transfer
- S) Adopt Resolution: Accept Bid for Construction of CDBG McGrath Broad Band Project
- T) Adopt Resolution: Search & Rescue Donation Mille Lacs Trails

- U) Adopt Resolution: Accept Engineering Firm CDBG McGrath Broadband Project
- V) Approve Affidavit for Duplicate of Lost Warrant AFSCME People, AFL -CIO
- W) Adopt Resolution: Borg Repurchase Tax-Forfeited Land
- X) Adopt Resolution: Award Contract 20229
- Y) Adopt Resolution: LG220 Permit Up North Riders ATV
- Z) Adopt Resolution: Search & Rescue Donation Tamarack Sno-Flyers

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to approve – Fire Protection Contract – Town of Ball Bluff.

Fire Protection Contract – Town of Ball Bluff

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to approve – Village Pump Tobacco License.

Village Pump Tobacco License

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to approve – Easement Transfer.

Easement Transfer

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: Accept Bid for Construction of CDBG McGrath Broadband Project:

Resolution #20221108-134 Accept Bid for Construction of CDBG McGrath Broadband Project

WHEREAS, Vantage Point Engineering and Mille Lacs Energy Cooperative, Broadband partner for the McGrath Project (CDBG-CV Broadband Grant CARE-21-0011-O-FY21) accepted bid for the construction of fiber and conduit facilities for this project AND

WHEREAS, Sealed bids were opened at 1:00 PM on October 6, 2022 with a total of 7 bids received. AND

WHEREAS, Vantage Point Solutions reviewed the bid from Hanco Utilities, Inc. and have found no issues or concerns with the bid pricing. Therefore, VPS recommends the acceptance of the low bid from Hanco Utilities, Inc. AND

WHEREAS, Economic Development staff and Mille Lacs Energy Cooperative reviewed the documents and agree to accept the bid from Hanco Utilities, Inc.

NOW, THEREFORE, BE IT RESOLVED, that Aitkin County accepts the bid from Hanco Utilities, Inc. for construction of fiber and conduit facilities for the CDBG-CV McGrath Broadband Project.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: SR Donation – Mille Lacs Trails:

Resolution #20221108-135 SR Donation – Mille Lacs Trails

WHEREAS, Aitkin County is generally authorized to accept donations of real and personal property with a 2/3 majority vote pursuant to Minnesota Statutes Section 465.03 for the benefit of its citizens.

WHEREAS, the following persons and entities have offered to contribute the cash amounts set forth below to the county:

Mille Lacs Trails, Inc. \$2500.00

AITKIN COUNTY BOARD

WHEREAS, the terms or conditions of the donations, if any, are as follows:

Mille Lacs Trails, Inc.

Aitkin County Search and Rescue

WHEREAS, all such donations have been contributed to the county for the benefit of its citizens, as allowed by law.

NOW THEREFORE BE IT RESOLVED, the Aitkin County Board of Commissioners finds that it is appropriate to accept the donations offered.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: CDBG McGrath Broadband Project.

WHEREAS, Mille Lacs Energy Cooperative, Broadband partner for the McGrath Project (CDBG-CV Broadband Grant CARE-21-0011-O-FY21) have retained the services of Vantage Point for all engineering responsibilities of the project. AND

WHEREAS, Economic Development staff has reviewed the documents and agrees that Vantage Point should be the Engineering Firm leading the project.

NOW, THEREFORE, BE IT RESOLVED, that Aitkin County accepts Vantage Point as the Engineering Firm for the CDBG-CV McGrath Broadband Project.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to approve – Affidavit for Duplicate of Lost Warrant – AFSCME People, AFL - CIO.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: Borg Repurchase Tax – Forfeited Land:

WHEREAS, Jonathan Borg, Owner at the time of forfeiture. (Applicant)

WHEREAS, the Applicant has made and filed an application with the County Auditor for the repurchase of the hereinafter described parcel of tax-forfeited land, in accordance with the provisions of Minnesota Statutes 1945, Section 282.241, of amended, which land is situated in the County of Aitkin, Minnesota and described as follows, to-wit:

Parcel # 13-0-016304 NE 1/4 of SE SE Sect: 9 Twp: 43 Rge: 24

and **WHEREAS**, said Applicants has set forth in his application that:

A. Hardship and injustice has resulted because of forfeiture of said land, for the following reasons, to-wit:

Was over looked and not included in the mortgage.

Resolution #20221108-136 CDBG McGrath Broadband Project

Affidavit for Duplicate of Lost Warrant – AFSCME People, AFL – CIO

Resolution #20221108-137 Borg Repurchase Tax – Forfeited Land B. That the repurchase of said land by me will promote and best serve the public interest because:

I will be able to keep land for my family and raise my children where I was raised. Will continue to keep up on it.

and WHEREAS, the Applicants have made payment of all delinquent taxes of properties

and **WHEREAS**, this board is of the opinion that said applications should be granted for such reasons.

NOW, THEREFORE BE IT RESOLVED, That the application of Jonathan Borg for the purchase of the above-described parcel of tax-forfeited land be and the same is hereby granted and the County Auditor is hereby authorized and directed to permit such repurchase according to the provisions of Minnesota Statutes 1945, Section 282.241, as amended.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: Award Contract 20229

WHEREAS, Contract No. 20229 is for construction of C.P. 001-090-041, and

WHEREAS, sealed bids were opened for this project at 2:00 p.m. on Monday, October 24, 2022 with a total of three bids received, and

WHEREAS, Ferguson Aggregate and Crushing, Alexandria, MN was the lowest responsible bidder in the amount of \$432,500.

NOW THEREFORE, BE IT RESOLVED, that Ferguson Aggregate and Crushing be awarded Contract 20229.

BE IT FURTHER RESOLVED, that the chairperson of the Aitkin County Board and the Aitkin County Auditor are hereby authorized and directed to enter into a contract on behalf of Aitkin County with said low bidder upon presentation of proper contract documents.

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: LG220 Permit – Up North Riders ATV:

BE IT RESOLVED, The Aitkin County Board of Commissioners agrees to approve the Application for Exempt Permit – Form LG220 – of the Up North Riders ATV Club Inc., at the following location – Fisherman's Bay, which has an address of 50933 State Highway 65, McGregor, MN 55760 – Workman Township. (Note: Date of activity for Raffle – October 7th, 2023)

Under the consent agenda, motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to adopt resolution: SR Donation – Tamarack Sno – Flyers:

Administrator Updates

Board Discussion

Adjourn

AITKIN COUNTY BOARD

WHEREAS, Aitkin County is generally authorized to accept donations of real and personal property with a 2/3 majority vote pursuant to Minnesota Statutes Section 465.03 for the benefit of its citizens.

WHEREAS, the following persons and entities have offered to contribute the cash amounts set forth below to the county:

Tamarack Sno-Flyers

\$6,000.00

WHEREAS, the terms or conditions of the donations, if any, are as follows:

Tamarack Sno-Flyers

Aitkin County Search and Rescue

WHEREAS, all such donations have been contributed to the county for the benefit of its citizens, as allowed by law.

NOW THEREFORE BE IT RESOLVED, the Aitkin County Board of Commissioners finds that it is appropriate to accept the donations offered.

Jessica Johnson – Talon Metals Community Outreach & Government Relations Manager presented a Talon Metals Mine Update.

Jon Aga – Executive Director of the Lakes Area United Way introduced himself and the United Way.

Motion by Commissioner Marcotte, seconded by Commissioner Wetserlund and carried, all members voted to approve Community Grant Program Awards.

Mark Jeffers – Economic Development Coordinator with Stacy Cluff – MLEC presented a Mille Lacs Energy Cooperative Broadband Update.

Motion by Commissioner Marcotte, seconded by Commissioner Napstad and carried, all members voted to Award Professional Audit Services Contract to CliftonLarsonAllen for a one-year agreement.

Jessica Seibert, County Administrator updated the Board on the following:

- Fema Calls
- Audit RFP
- Teamster Negotiations
- Regional MACA Call

Motion by Commissioner Marcotte, seconded by Commissioner Westerlund and carried, all members voted to approve Operation Green Light.

The Board discussed: Fisheries, Extension, MRC, Mississippi Headwaters, Negotiations, AIS, McGregor Airport, HHS Advisory, Audit Committee, Aitkin Airport.

Motion by Commissioner Westerlund, seconded by Commissioner Napstad and carried, all members voted to close meeting under MN Statute 13D.03 Subd.1(b) Labor Negotiations at 11:48 p.m.

AITKIN COUNTY BOARD

November 8, 2022

Motion by Commissioner Marcotte, seconded members voted to reopen meeting at 12:26 p	d by Commissioner Napstad and carried o.m.	, all
Motion by Commissioner Napstad, seconded members voting yes to adjourn the meeting a 2022 at the Aitkin County Government Center	at 12:30 p.m. until Tuesday, November 2	
J. Mark Wedel, Board Chair Aitkin County Board of Commissioners	Jessica Seibert County Administrator	



Board of County Commissioners Agenda Request



Requested Meeting Date: 11/22/2022

Title of Item: Electronic Funds Transfer

REGULAR AGENDA	Action Requested:	Direction Requested
CONSENT AGENDA	Approve/Deny Motion	Discussion Item
INFORMATION ONLY	Adopt Resolution (attach dr	aft) Hold Public Hearing* e copy of hearing notice that was published
Submitted by:		Department:
Lori Grams		County Treasurer
Presenter (Name and Title): N/A		Estimated Time Needed:
Summary of Issue:		
Electronic Funds Transfer thru 11/14/2	2022	
Alfanoti na Ontina Effectiva	. 011 /0	
Alternatives, Options, Effects or	n Others/Comments:	
Decembered Action/Metions		
Recommended Action/Motion:		
Financial Impact:		
Is there a cost associated with this		No
What is the total cost, with tax and Is this budgeted?	r snipping? \$ │ │ No Please Exp	lain:

ELECTRONIC FUNDS TRANSFERThru November 14, 2022 Board Meeting November 22, 2022

Abstract Number	Date	Amount	Reason	
21509	11/1/22	\$1,500.72	Manual Abstract	_
21511	11/4/22	\$53,695.90	Auditor Abstract	
21512	11/4/22	\$6,016.47	Auditor Abstract	
21513	11/4/22	\$614,647.74	Payroll Abstract	
21514	11/3/22	\$39.58	Manual Abstract	
21515	11/4/22	\$30.00	Manual Abstract	
21516	11/8/22	\$105,902.95	Manual Abstract	
21517	11/8/22	\$2,258.17	Manual Abstract	
21518	11/8/22	\$416.68	Manual Abstract	
21519	11/8/22	\$294.62	Manual Abstract	
21520	11/10/22	\$124,416.67	Commissioner Abstract	
21521	11/10/22	\$1,711.04	Auditor Abstract	
21522	11/9/22	\$90.00	Manual Abstract	
21523	11/15/22	\$1,434.58	Auditor Abstract	
21524	11/10/22	\$7,403.46	Manual Abstract	
21525	11/10/22	\$10.29	Manual Abstract	\$0
21526	11/14/22	\$600.00	Manual Abstract	Voids/No ACH
21527	11/14/22	\$468.76	Manual Abstract	21510

Aitkin County

2D



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Page 1

Print List in Order By: 2 1 - Fund (Page Break by Fund)

2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: N

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

Page Break By: 1 1 - Pag

1 - Page Break by Fund2 - Page Break by Dept

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

0	Vendor <u>No.</u> DEPT 999999000	Name Account/Formula Glauvitz/Nathan 01-000-000-0000-2317 Glauvitz/Nathan	Rpt Accr	Amount 46.00 46.00	Warrant Description Service Undesignated Full Refund / App withdre	<u>Dates</u>	Invoice # Paid On Bhf # 2021-007964	Account/Formula Description On Behalf of Name Unavailable Rev-P&Z Recording Fees	<u>1099</u> N
0	DEPT T	otal:		46.00	Undesignated		1 Vendors	1 Transactions	
1	DEPT 86222	Aitkin Independent Age 01-001-000-0000-6230		100.00	Commissioners 09.13 SYNOPSIS		1263376	Printing, Publishing & Adv	Y
		01-001-000-0000-6230		108.00	10/12/2022 SEPT 27 SYNOPSIS 10/19/2022	10/12/2022 10/19/2022	1265739	Printing, Publishing & Adv	Y
	86222	Aitkin Independent Age		208.00		2 Transaction	S		
	15240	AT&T Mobility 01-001-000-0000-6220		168.29	COMMISSIONERS OCT 09/26/2022	OBER 10/25/2022	287298817699	Telephone	N
		01-001-000-0000-6220		168.71	COMMISSIONERS SEP		287298817699	Telephone	N
	15240	AT&T Mobility		337.00		2 Transaction	s		
	10200	Marcotte/Anne Marie 01-001-000-0000-6339		28.73	DISTRICT 1 AMC 10/12/2022	10/13/2022	DISTRICT 1	Meals (Overnight)	N
		Marcotte/Anne Marie		28.73		1 Transaction	S		
1	DEPT T	otal:		573.73	Commissioners		3 Vendors	5 Transactions	
12		Avery/Jill			Court Administration				
	9323	01-012-000-0000-6263 Avery/Jill		172.23 172.23	01-P4-99-000194 10/01/2022	10/31/2022 1 Transaction	11/3/22 s	Contract Legal Services	Y
	1976	Haberkorn Law Offices,Ltd 01-012-000-0000-6263		937.50	01-JV-22-313 10/01/2022	10/31/2022	10/27/22	Contract Legal Services	Y

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

		Name	<u>Rpt</u>	Amount	Warrant Description Service	Datas	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	<u>INO.</u>	Account/Formula 01-012-000-0000-6263	<u>Accr</u>	Amount	01-JV-22-594	<u>Dales</u>	10/27/22	Contract Legal Services	Υ
		01-012-000-0000-0203		870.00	10/01/2022	10/31/2022	10/21/22	Contract Legal Services	1
		01-012-000-0000-6263		757.50	01-JV-21-1129	10/01/2022	10/27/22	Contract Legal Services	Υ
					10/01/2022	10/31/2022			
		01-012-000-0000-6263		60.00	01-FA-21-617		10/27/22	Contract Legal Services	Υ
					10/01/2022	10/31/2022			
		01-012-000-0000-6263		510.00	01-JV-21-1171		10/27/22	Contract Legal Services	Υ
					10/01/2022	10/31/2022			
		01-012-000-0000-6263		592.50	01-JV-22-474		10/27/22	Contract Legal Services	Υ
	4070	Habaniaan Law Offices Ltd		2 727 50	10/01/2022	10/31/2022	•		
	1976	Haberkorn Law Offices,Ltd		3,727.50		6 Transaction	S		
12	DEPT 1	Total:		3,899.73	Court Administration		2 Vendors	7 Transactions	
40	DEPT				Auditor				
	10695	Juhl/Minette							
		01-040-000-0000-5132		21.00	REFUND NOV - MARCH	TOBACCO	REFUND	Cigarette License Fees	N
					11/01/2022	03/31/2023			
	10695	Juhl/Minette		21.00		1 Transaction	S		
	86235	The Office Shop Inc							
	00200	01-040-021-0000-6405		567.93	TONER CARTRIDGE		1118418-0	Office Supplies	N
		01-040-021-0000-6405		40.16	BATTERIES, ETC		323870-0	Office Supplies	N
	86235	The Office Shop Inc		608.09		2 Transaction	s		
40	DEPT 1	Total:		629.09	Auditor		2 Vendors	3 Transactions	
41	DEPT				Internal Audit				
	12780	CliftonLarsonAllen LLP			momal / taak				
		01-041-000-0000-6360		1,120.35	FINAL BILLING 2021		3460502	Services, Labor, Contracts	Υ
	12780	CliftonLarsonAllen LLP		1,120.35		1 Transaction	s		
41	DEPT 1	Fotal:		1,120.35	Internal Audit		1 Vendors	1 Transactions	
42	DEPT				Treasurer				
	86235	The Office Shop Inc							
		01-042-000-0000-6405		85.95	PENCILS AND ADDINGN	MACHINEROLLS	1118557-0	Office Supplies	N
		01-042-000-0000-6405		22.98	PENCILS		1118557-1	Office Supplies	N
			C	Copyright 20	110-2021 Integrated Fi	nancial Systen	ns		

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

		Name Account/Formula 01-042-000-0000-6405 01-042-000-0000-6405	<u>Rpt</u> Accr	Amount 29.23 16.27	Warrant Description Service I INK AND STICKY NOTES BINDERS		Invoice # Paid On Bhf # 323889-0 324128-0	Account/Formula Description On Behalf of Name Office Supplies Office Supplies	1099 N N
	86235	The Office Shop Inc		154.43	BINDLING	4 Transactions		Описс Опрриез	14
	14330	US Bank 01-042-000-0000-6342		100.00	US BANK- COPIER 10/01/2022	10/31/2022	486000821	Office Equipment Rental/Contracts	N
	14330	US Bank		100.00		1 Transactions			
42	DEPT T	otal:		254.43	Treasurer		2 Vendors	5 Transactions	
43	DEPT				Assessor				
	89471	Aitkin Co 4-H Council 01-043-000-0000-6405		40.00	PLAT BOOK FOR MELIS	SA BLAZEK	#716	Office Supplies	N
	89471	Aitkin Co 4-H Council		40.00		1 Transactions			
	10330	Dangers/Mike							
	10330	01-043-000-0000-6339 Dangers/Mike		19.42 19.42	MAAO FALL CONFEREN	CE LUNCH; 1 Transactions	703500	Meals (Overnight)	N
	9686	MAAP							
		01-043-000-0000-6241		25.00	MAAP WINTER MEETING	-	AITKIN CO	Registration Fee	N
	9686	MAAP		25.00		1 Transactions	;		
	5430	Minnesota State Board Of Assess 01-043-000-0000-6240	sors	35.00	SHANNON PARENTEAU	CMA	AITKIN CO	Dues & License Renewal	N
		01-043-000-0000-6240		35.00	KIP STUDAKER CMA		AITKIN CO	Dues & License Renewal	Ν
	5430	Minnesota State Board Of Assess	sors	70.00		2 Transactions	:		
43	DEPT T	otal:		154.42	Assessor		4 Vendors	5 Transactions	
44	DEPT				Central Services				
	783	Canon Financial Services, Inc 01-044-000-0000-6360		248.78	CANON CONTRACT CHA	ARGE OCTOBER 10/31/2022	29375757	Services, Labor, Contracts	N
	783	Canon Financial Services, Inc		248.78	. 3, 3 . , _ 3	1 Transactions	:		
	3336	Office Of MN. IT Services							

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	<u>No.</u>	Name Account/Formula 01-044-000-0000-6360 Office Of MN. IT Services	Rpt Accr	Amount 1,338.65 1,338.65	Warrant Description Service SEPTEMBER WAN SERV 09/01/2022		Invoice # Paid On Bhf # DV22090316	Account/Formula Description On Behalf of Name Services, Labor, Contracts	<u>1099</u> N
44	DEPT 1	otal:		1,587.43	Central Services		2 Vendors	2 Transactions	
49	DEPT				Information Technologies				
	9561	Amazon Business							
		01-049-000-0000-6405		51.36	MONITOR SCREEN CLE	ANER	114Q-NCLD-4GPC	Office Supplies (Non Computer)	Ν
		01-049-000-0000-6485		106.88	2 HDD FOR PZ SERVER		16DW-PYJK-17P6	Computer/Technology Supplies	Ν
	9561	Amazon Business		158.24		2 Transactions	3		
	5893	Consolidated Telecommunicat	ions Co.						
		01-049-000-0000-6283		227.33	GUEST HIGH SPEED IN		21112627	Programming, Services, Contracts	N
	5893	Consolidated Telecommunicat	ions Co.	227.33		1 Transactions	3		
	88880	Datacomm Computers & Netwo	orks Inc						
		01-049-000-0000-6485		45.96	LD3 WIRE MOLD		15377	Computer/Technology Supplies	Ν
	88880	Datacomm Computers & Netwo	orks Inc	45.96		1 Transactions	3		
	86290	Mn Counties Information Syste	ems						
		01-049-000-0000-6283		883.00	CTYHOSTRES		2288	Programming, Services, Contracts	N
		01-049-000-0000-6283		2,460.00	CTYHOSTLV2		2288	Programming, Services, Contracts	Ν
		01-049-000-0000-6283		390.00	CTYHOSTMNT		2288	Programming, Services, Contracts	N
	86290	Mn Counties Information Syste	ems	3,733.00		3 Transactions	3		
49	DEPT 1	otal:		4,164.53	Information Technologic	9 S	4 Vendors	7 Transactions	
52	DEPT				Administration				
	9561	Amazon Business							
		01-052-000-0000-6405		179.77	BRITT WAH, JESS CALE 10/31/2022	NDAR 10/31/2022	11ND-VDLT-H4TY	Office Supplies	N
		01-052-000-0000-6405		30.98	PHONE SUPPLIES 10/02/2022	10/02/2022	1CCF-CDXP-YTMN	Office Supplies	N
		01-052-000-0000-6405		47.30	BRITT WORKSTATION 11/01/2022	11/02/2022	1MXD-PLCF-6HNL	Office Supplies	N
	9561	Amazon Business		258.05	1 1/0 1/2022	3 Transactions	3		

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>No.</u>	Name Account/Formula Association of Mn Counties	Rpt Accr	<u>Amount</u>	Warrant Description Service	<u>Dates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	248	01-052-000-0000-6241		150.00	MACA TECHNICAL DAY 07/28/2022	07/29/2022	AMC	Registration Fee	N
	248	Association of Mn Counties		150.00		1 Transaction	S		
	15240	AT&T Mobility 01-052-000-0000-6220		75.18	ADMINISTRATION OCTO	DBER 10/25/2022	287298817699	Telephone	N
		01-052-000-0000-6220		49.75	09/26/2022 JESSICA SEPTEMBER 09/25/2022	10/26/2022	287298817699	Telephone	N
	15240	AT&T Mobility		124.93		2 Transaction	S		
	10895 10895	Westerlund/Laurie Ann 01-052-000-0000-6330 Westerlund/Laurie Ann		260.00 260.00	LW MILEAGE GRAND PO 10/14/2022	DRTAGE AMC 10/14/2022 1 Transaction	LW - MILEAGE	Transportation/Travel/Parking	N
	DEDT						4 Mandana	7 Tunnantinua	
52	DEPT 1	iotai:		792.98	Administration		4 Vendors	7 Transactions	
53	DEPT				Human Resources				
	86222	Aitkin Independent Age							
		01-053-000-0000-6230		122.65	PRINTING, PUBLISHING 10/09/2022	& ADV 10/09/2022	1263139	Printing, Publishing & Adv	Υ
				122.65 128.65		10/09/2022	1263139 1264557	Printing, Publishing & Adv Printing, Publishing & Adv	Y Y
		01-053-000-0000-6230			10/09/2022 PRINTING, PUBLISHING	10/09/2022 & ADV			
		01-053-000-0000-6230 01-053-000-0000-6230		128.65	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD	10/09/2022 & ADV 10/16/2022 10/22/2022	1264557	Printing, Publishing & Adv	Υ
	86222	01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230		128.65 134.65	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV	1264557 1266464 1268159	Printing, Publishing & Adv Printing, Publishing & Adv	Y Y
	86222 9561	01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230		128.65 134.65 128.65	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV 10/29/2022	1264557 1266464 1268159	Printing, Publishing & Adv Printing, Publishing & Adv	Y Y
		01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 Aitkin Independent Age		128.65 134.65 128.65	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV 10/29/2022 4 Transaction	1264557 1266464 1268159	Printing, Publishing & Adv Printing, Publishing & Adv	Y Y
		01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 Aitkin Independent Age Amazon Business		128.65 134.65 128.65 514.60	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING 10/26/2022	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV 10/29/2022 4 Transaction TT WAH 10/31/2022	1264557 1266464 1268159	Printing, Publishing & Adv Printing, Publishing & Adv Printing, Publishing & Adv	Y Y Y
		01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 Aitkin Independent Age Amazon Business 01-053-000-0000-6405		128.65 134.65 128.65 514.60	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING 10/26/2022 NICOLE SUPPLIES, BRIT 10/31/2022 STICKY TABS AND NIKK	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV 10/29/2022 4 Transaction TT WAH 10/31/2022	1264557 1266464 1268159 s	Printing, Publishing & Adv Printing, Publishing & Adv Printing, Publishing & Adv Office Supplies	Y Y Y
		01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 01-053-000-0000-6230 Aitkin Independent Age Amazon Business 01-053-000-0000-6405 01-053-000-0000-6405		128.65 134.65 128.65 514.60 195.22 9.48	10/09/2022 PRINTING, PUBLISHING 10/16/2022 HIRING AD 10/19/2022 PRINTING, PUBLISHING 10/26/2022 NICOLE SUPPLIES, BRIT 10/31/2022 STICKY TABS AND NIKK 10/02/2022 BRITT WORKSTATION	10/09/2022 & ADV 10/16/2022 10/22/2022 & ADV 10/29/2022 4 Transaction TT WAH 10/31/2022 I RULER 10/02/2022	1264557 1266464 1268159 s 11ND-VDLT-H4TY 1CCF-CDXP-YTMN	Printing, Publishing & Adv Printing, Publishing & Adv Printing, Publishing & Adv Office Supplies Office Supplies	Y Y Y N

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Vendor <u>No.</u> 9561	Name Account/Formula Amazon Business	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service 10/31/2022		Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
248 248	Association of Mn Counties 01-053-000-0000-6241 Association of Mn Counties		200.00 200.00	MCHRMA FALL CONFE	RENCE 10/07/2022 1 Transactions	MCHRMA FALL	Registration Fee	N
15240	AT&T Mobility 01-053-000-0000-6220		68.62	HR OCTOBER 09/26/2022	10/25/2022	287299383308	Telephone	N
15240	01-053-000-0000-6220 AT&T Mobility		100.74 169.36	BOBBIE AND NIKKI SEF 09/25/2022		287299383308	Telephone	N
10629	Ergometrics & Applied Pers 01-053-000-0000-6265	onnel Research	300.00	DISPATCH TESTING	22 /22 /22 22	142828	Background Check Fee	N
10629	Ergometrics & Applied Pers	onnel Research	300.00	09/30/2022	09/30/2022 1 Transactions			
	Henricksen PSG 01-053-000-0000-6405		423.47	NICOLE - BOOKSHELF 10/19/2022	10/19/2022	737921	Office Supplies	N
9032	Henricksen PSG		423.47		1 Transactions			
12048	McDowell Agency, Inc./The 01-053-000-0000-6265		464.00	8 NEW HIRE BACKGRO 10/01/2022	UND 10/31/2022	142633	Background Check Fee	N
12048	McDowell Agency, Inc./The		464.00		1 Transactions			
13412	Pemberton, Sorlie, Rufer & I 01-053-000-0000-6263	Kershner PLLP	98.50	FK LEGAL 08/31/2022	08/31/2022	518242	Contract Legal Services	Y
13412	Pemberton, Sorlie, Rufer & I	Kershner PLLP	98.50		1 Transactions			
10879	Shred-It 01-053-000-0000-6360		80.00	SHRED - IT SET UP 10/25/2022	10/25/2022	8002619968	Services, Labor, Contracts	N

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	<u>No.</u>	Name Account/Formula Shred-It	Rpt Accr	Amount 80.00	Warrant Description Service	<u>Dates</u> 1 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
53	DEPT T	otal:		2,532.90	Human Resources		9 Vendors	16 Transactions	
60	DEPT				Elections				
	86222	Aitkin Independent Age 01-060-000-0000-6230		075.00	GEN ELECTION POLLIN	C DI ACE	1265442	Printing, Publishing & Adv	Y
		01-060-000-0000-6230		675.00 390.00	GENERAL ELECTION SA	-	1265443	Printing, Publishing & Adv	Y
		01-060-000-0000-6230		410.00	GEN ELECTION SAMPLI		1267998	Printing, Publishing & Adv	Ϋ́
	86222	Aitkin Independent Age		1,475.00	OLIV ELECTION ON WILL	3 Transactions		r mang, r abilishing a nav	'
	11135	Hills/Marcia					05115511 0000	0.00	
	44405	01-060-000-0000-6405		101.55	2022 GENERAL ELECTION		GENERAL 2022	Office Supplies	N
	11135	Hills/Marcia		101.55		1 Transactions	3		
60	DEPT T	otal:		1,576.55	Elections		2 Vendors	4 Transactions	
90	DEPT				Attorney				
		Canon Financial Services, Inc			Attorney				
		01-090-000-0000-6342		326.99	CONTRACT CHARGES 10/01/2022	10/31/2022	29375758	Office Equipment Rental/Contracts	N
	783	Canon Financial Services, Inc		326.99	10/01/2022	1 Transactions	3		
	10855	Culligan Water							
		01-090-000-0000-6265		78.00	MONTHLY SERVICE		150X01370501	Drug & Forfeiture MS 387.213	N
					10/01/2022	10/31/2022		-	
	10855	Culligan Water		78.00		1 Transactions	3		
	10064	DMV - Public Operations - G199	9						
		01-090-000-0000-6265		20.00	CERTIFIED COPY		AITKIN CO.	Drug & Forfeiture MS 387.213	N
	10064	DMV - Public Operations - G199	9	20.00		1 Transactions	3		
	10870	Shred-It							
	10079	01-090-000-0000-6360		189.48	MONTHLY SERVICE		8002638966	Services, Labor, Contracts	N
		3. 330 000 0000		103.40	10/01/2022	10/31/2022	330200000	25655, 2455., 56/1/146/6	
	10879	Shred-It		189.48		1 Transactions	3		
	86235	The Office Shop Inc							

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description		Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	<u>Service</u>	<u>Dates</u>	Paid On Bhf #	On Behalf of Name	
		01-090-000-0000-6405		12.12	OFFICE SUPPLIES		1118339-0	Office Supplies	N
		01-090-000-0000-6405		101.35	OFFICE SUPPLIES		1118339-0	Office Supplies	N
		01-090-000-0000-6405		63.98	OFFICE SUPPLIES		1118339-1	Office Supplies	Ν
		01-090-000-0000-6405		72.51	OFFICE SUPPLIES		1118339-2	Office Supplies	N
		01-090-000-0000-6405		54.01	OFFICE SUPPLY		1118821-0	Office Supplies	N
	86235	The Office Shop Inc		303.97		5 Transactions	5		
90	DEPT T	「otal:		918.44	Attorney		5 Vendors	9 Transactions	
100	DEPT				Recorder				
	2386	Information Systems Corp 01-100-196-0000-6266		11 000 00	APPEXTENDER LICENS	EQ	25888	Data Processing/Computer Services	N
	2206	Information Systems Corp		11,608.00 11,608.00	APPEXTENDER LICENS	1 Transactions		Data Processing/Computer Services	IN
	2300	illorination systems corp		11,000.00		i mansactions	•		
100	DEPT 1	Total:		11,608.00	Recorder		1 Vendors	1 Transactions	
110	DEPT				Courthouse Maintenance				
	15240	AT&T Mobility							
		01-110-000-0000-6220		49.66	JIM BRIGHT OCTOBER		287298817699	Telephone	N
					09/26/2022	10/25/2022			
		01-110-000-0000-6220		49.75	JIM SEPTEMBER		287298817699	Telephone	N
					09/25/2022	10/26/2022			
	15240	AT&T Mobility		99.41		2 Transactions	3		
	9692	Minnesota Energy Resources	Corporation						
		01-110-000-0000-6254		1,272.59	UTILITIES-GAS AND ELE 09/22/2022	ECTRIC 10/21/2022	4336650230	Utilities-Gas and Electric	N
	9692	Minnesota Energy Resources	Corporation	1,272.59	OOILLILULL	1 Transactions	5		
	3950	Public Utilities							
		01-110-000-0000-6254		4,033.75	UTILITIES-GAS AND ELE	CTRIC	1430-00	Utilities-Gas and Electric	N
		01-110-000-0000-6254		110.00	GLARCO		50186-00	Utilities-Gas and Electric	N
		01-110-000-0000-6254		264.77	LA TOOL BUILDING		50188-00	Utilities-Gas and Electric	N
		01-110-000-0000-6254		41.59	OLD CO GARAGE		50202-00	Utilities-Gas and Electric	N
		01-110-000-0000-6254		47.19	UTILITIES-GAS AND ELE	CTRIC	509-00	Utilities-Gas and Electric	N
	3950	Public Utilities		4,497.30		5 Transactions	3		

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

110		Name Account/Formula otal:	<u>Rpt</u> <u>Accr</u>	Amount 5,869.30	Warrant Description Service I Courthouse Maintenance		Invoice # Paid On Bhf # 3 Vendors	Account/Formula Description On Behalf of Name 8 Transactions	1099
120	DEPT				Veterans Service				
	10981	Bakken/Glen A.J. 01-120-000-0000-6278		50.00	GLEN OCT 10/20/2022	10/20/2022	102022	Per Diem	Υ
	10981	Bakken/Glen A.J.		50.00		1 Transactions			
	2448	Janzen/Carroll Mark							
		01-120-000-0000-6278		100.00	CARROLL SEP, OCT 09/15/2022	10/28/2022	091522	Per Diem	Υ
		01-120-000-0000-6335		30.74	CARROLL GAS FOR VAN 10/28/2022		091522	Gas/Vehicle Fuel Charges	Υ
	2448	Janzen/Carroll Mark		130.74	10/20/2022	2 Transactions			
	14508	Janzen/Hugh							
		01-120-000-0000-6278		50.00	HUGH OCT 10/07/2022	10/07/2022	100722	Per Diem	Υ
	14508	Janzen/Hugh		50.00	.0/01/2022	1 Transactions			
	3093	Jones/Stanley Carter							
		01-120-000-0000-6278		50.00	STAN SEP 09/28/2022	09/28/2022	092822	Per Diem	Υ
	3093	Jones/Stanley Carter		50.00		1 Transactions			
	5767	Lamke/Dennis C.							
		01-120-000-0000-6278		100.00	DENNIS SEPOCT 09/20/2022	10/26/2022	092022	Per Diem	Υ
	5767	Lamke/Dennis C.		100.00	00/20/2022	1 Transactions			
	15126	Timinski/Matt							
		01-120-000-0000-6278		50.00	MATT OCT 10/04/2022	10/04/2022	100422	Per Diem	Υ
	15126	Timinski/Matt		50.00	10/04/2022	1 Transactions			
	6097	Verizon Wireless 01-120-000-0000-6220		12.69	VERIZON OCTOBER 09/21/2022	10/20/2022	9918689629	Telephone	N

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

N	lor <u>Name</u> o. <u>Account/Formula</u> or Verizon Wireless	Rpt Accr	Amount 12.69	Warrant Description Service D	Dates 1 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
35 35	Voyageur Press Of Mcgregor, 01-120-000-0000-6230 Voyageur Press Of Mcgregor,		100.00 100.00	V PRESS OCTOBER 10/25/2022	10/25/2022 1 Transactions	45850	Printing, Publishing & Adv	N
33	To voyagear i ress or megregor,	iiic	100.00		1 Transactions			
119	70 Wikelius/Charles 01-120-000-0000-6278		50.00	CHARLIE SEP 09/27/2022	09/27/2022	92722	Per Diem	Υ
119	70 Wikelius/Charles		50.00		1 Transactions			
92	55 Witt/Warren 01-120-000-0000-6278		50.00	WARREN OCT 10/05/2022	10/05/2022	100522	Per Diem	Y
92	55 Witt/Warren		50.00	10/03/2022	1 Transactions			
90	63 Workman/Jeff 01-120-000-0000-6278		100.00	JEFF SEP, OCT 09/08/2022	10/13/2022	090822	Per Diem	Υ
90	3 Workman/Jeff		100.00		1 Transactions			
120 DEF	T Total:		743.43	Veterans Service		11 Vendors	12 Transactions	
122 DEF	T I1 Aitkin Co Soil & Water			Planning & Zoning				
	01-122-000-0000-5305 11 Aitkin Co Soil & Water		30,000.00 30,000.00	2021 RIPARIAN PROJEC	T AID 1 Transactions	2021 FULL YEAR	Riparian Project Aid	N
	22 Aitkin Independent Age 01-122-000-0000-6230 01-122-000-0000-6230 22 Aitkin Independent Age		151.75 66.50 218.25	NOVEMBER BOA NOV PC	2 Transactions	1266270 1267996	Printing, Publishing & Adv Printing, Publishing & Adv	Y Y
	33 Canon Financial Services, Inc 01-122-000-0000-6342		166.12	MONTHLY COPIER CHAR 10/01/2022	10/31/2022	29375755	Office Equipment Rental/Contracts	N
7	33 Canon Financial Services, Inc		166.12		1 Transactions			

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Page 12

No.	Name Account/Formula	<u>Rpt</u> <u>Accr A</u>	<u>imount</u>	Warrant Description Service D		Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	Christensen/Charles 01-122-038-0000-6330 01-122-038-0000-6330 Christensen/Charles			NOV BOA NOV BOA MILEAGE		110222 110222	BOA/PC Mileage BOA/PC Mileage	Y Y
999999000	Glauvitz/Nathan 01-122-000-0000-6820 Glauvitz/Nathan		650.00 650.00	Full Refund / App withdrw	1 Transactions	2021-007964	Refunds & Reimbursements	N
	Hargrave/Bryan 01-122-000-0000-6360 Hargrave/Bryan		3,000.00 3, 000.00	CONTRACT LABOR 10/3/ 10/03/2022	-10/28/22 10/28/2022 1 Transactions	103122	Services, Labor, Contracts	Y
999999000	Kohls Concepts 01-122-000-0000-6820 Kohls Concepts		550.00 550.00	Full Refund / Dupl App	1 Transactions	2022-009326	Refunds & Reimbursements	N
	McGregor Print Pros 01-122-000-0000-6405 McGregor Print Pros		250.00 250.00	PERMIT CARDS	1 Transactions	1904	Office, Film, & Field Supplies	Υ
	Stromberg/Kevin 01-122-000-0000-6278 01-122-038-0000-6330 Stromberg/Kevin		.20.00	NOV BOA NOV BOA MILEAGE		110222 110222	Advisory Board/Committee Per Diem BOA/PC Mileage	Y Y
	Veenker/Thomas H 01-122-000-0000-6278 01-122-038-0000-6330 Veenker/Thomas H			NOV BOA NOV BOA MILEAGE		110222 110222	Advisory Board/Committee Per Diem BOA/PC Mileage	N N
5108	Westerlund Construction LLC 01-122-029-0000-6304 Westerlund Construction LLC	16		ISTS GRANT FUNDS PER		110322	MPCA SSTS Upgrade Grant Expenses	Y
122 DEPT 1	otal:	57	7,005.01	Planning & Zoning		11 Vendors	15 Transactions	

200 DEPT

Enforcement

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Name Account/Formula Aitkin Body Shop, Inc	Rpt Accr	<u>Amount</u>	Warrant Description Service D	<u>ates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
30	01-200-000-0000-6302		152.83	#225 BRAKE LIGHT		14421	Vehicle Maintenance	N
	01-200-000-0000-6302		12,106.68	#202 SQUAD/DEER		14437	Vehicle Maintenance	N
	01-200-000-0000-6302		606.26	#212 SQUAD REPAIRS		14461	Vehicle Maintenance	N
50	Aitkin Body Shop, Inc		12,865.77		3 Transactions			
	• •		·					
170	Aitkin Motor Company							
	01-200-000-0000-6620		37,440.00	NEW SQUAD PURCHASE		0007366	Auto, Trailers, Snowmobiles, ATV	N
170	Aitkin Motor Company		37,440.00		1 Transactions			
339	Applied Concepts Inc					_		
	01-200-000-0000-6460		5,990.00	209/214 RADAR		S278005	Deputy Supplies	N
339	Applied Concepts Inc		5,990.00		1 Transactions			
9138	ASAP Towing							
	01-200-000-0000-6359		250.50	22002477		103122	Wrecker Service	Υ
9138	ASAP Towing		250.50		1 Transactions			
	-							
783	Canon Financial Services, Inc							
	01-200-000-0000-6342		170.74	ADMIN COPIER LEASE		29375763	Office Equipment Rental/Contracts	N
				10/01/2022	10/31/2022			
783	Canon Financial Services, Inc		170.74		1 Transactions			
15144	Cellebrite							
10144	01-200-000-0000-6360		4,300.00	TOUCH 2 & ANALYZER SE	FRVICE	INVUS248200	Services, Labor, Contracts	N
15144	Cellebrite		4,300.00		1 Transactions		25. 11656, 24251, 2511114615	
			.,					
9806	Elite K-9, Inc.							
	01-200-019-0000-6460		380.80	FENTANYL DETECTION K	(IT	274689	Deputy Supplies	Υ
9806	Elite K-9, Inc.		380.80		1 Transactions			
1775	Galls LLC							
1773	01-200-000-0000-6180		217.53	209/214 GEAR		022380295	Clothing Allowance	N
	01-200-000-0000-6180		56.34	209/214 GLOVE & KEY HC	OLDER	022397976	Clothing Allowance	N
	01-200-000-0000-6180		80.84	#214 RAIN JACKET		022411371	Clothing Allowance	N
	01-200-000-0000-6180		514.99	#209 S/S & L/S SHIRTS		022415998	Clothing Allowance	N
	01-200-000-0000-6180		560.68	209/214 SHIRTS & DUTY (GEAR	022415999	Clothing Allowance	N
	01-200-000-0000-6180		236.24	#214 WINTER JACKET		022416001	Clothing Allowance	N
	22 222 222 3000		200.27					. •

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Name Account/Formula Galls LLC	Rpt Accr	Amount 1,666.62	Warrant Description Service D	ates 6 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
5579 5579	Grand Rapids Police Departmen 01-200-200-0000-6264 Grand Rapids Police Departmen		575.09 575.09	GRAND RAPIDS OT	1 Transactions	7/1/22-9/30/22	VCET-Other County OT	N
2340 2340	Hyytinen Hardware Hank 01-200-000-0000-6460 Hyytinen Hardware Hank		11.25 11.25	#220 KEY HOLDER	1 Transactions	3286/3436/3437	Deputy Supplies	N
6121 6121	Identisys 01-200-039-0000-6463 Identisys		375.98 375.98	GUN PERMIT SUPPLIES	1 Transactions	592973	Gun Permit Supplies/Expenses	N
9534 9534	Jeff's Mobile Lock & Key 01-200-000-0000-6359 Jeff's Mobile Lock & Key		180.00 180.00	'12 ESCAPE KEY 2200239	8 1 Transactions	0003987	Wrecker Service	Y
9869 9869	KIESLER POLICE SUPPLY 01-200-000-0000-6460 KIESLER POLICE SUPPLY		335.74 335.74	AMMUNITION	1 Transactions	IN200670	Deputy Supplies	Y
10071 10071	Mattracks, Inc. 01-200-020-0000-6460 Mattracks, Inc.		13,765.00 13,765.00	ATV TRACKS	1 Transactions	38380	Search & Rescue Supplies	N
12553 12553	MEYER'S SERVICE CENTER 01-200-000-0000-6302 MEYER'S SERVICE CENTER		2,250.60 2,250.60	#207 SQUAD REPAIR - BR	RAKES 1 Transactions	22723	Vehicle Maintenance	N
3390 3390	Minnesota UC Fund 01-200-000-0000-6172 Minnesota UC Fund		13.59 13.59	C. FOX UI 07/01/2022	09/30/2022 1 Transactions	15667296	Unemployment Compensation	N
10072	Paul's Locks and Keys, LLC 01-200-200-0000-6265 Paul's Locks and Keys, LLC		60.00 60.00	SAFE WORK 22002093	1 Transactions	00003081	Programs	Υ

200

202

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	<u>No.</u>	Name Account/Formula Robertson/Jolene	Rpt Accr	<u>Amount</u>	Warrant Description Service Da	<u>ites</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
		01-200-200-0000-6268 Robertson/Jolene		129.15 129.15	TRAINING- BEMIDJI	1 Transactions	10272022	Training, Development	N
		Sheriff Itasca County 01-200-200-0000-6264 Sheriff Itasca County		663.30 663.30	ITASCA CO - OT	1 Transactions	7/1/22-9/30/22	VCET-Other County OT	N
		Sheriff Mille Lacs County 01-200-200-0000-6264 Sheriff Mille Lacs County		1,080.68 1,080.68	MILLE LACS CO - OT	1 Transactions	7/1/22-9/30/22	VCET-Other County OT	N
		The Office Shop Inc 01-200-000-0000-6405 The Office Shop Inc		6.23 6.23	GLUE STICKS	1 Transactions	1118834-0	Office Supplies	N
		The Tire Barn 01-200-000-0000-6302 01-200-000-0000-6302 01-200-000-0000-6302 The Tire Barn		930.93 55.48 69.48 1,055.89	#212 OIL CHANGE, STRUT #225 OIL CHANGE #207 OIL CHANGE	S 3 Transactions	64792 64929 64968	Vehicle Maintenance Vehicle Maintenance Vehicle Maintenance	N N N
	11046	Wersal/John 01-200-000-0000-6335 Wersal/John		50.75 50.75	#219 GAS - REIMBURSE	1 Transactions	9056989	Gas/Vehicle Fuel Charges	N
		WEX Bank 01-200-000-0000-6335 WEX Bank		9,293.56 9,293.56	DEPUTY GAS	1 Transactions	84369662	Gas/Vehicle Fuel Charges	N
		WYATT'S TOWING & Recovery 01-200-200-0000-6265 WYATT'S TOWING & Recovery		230.00 230.00	TOW 22001799	1 Transactions	8282022	Programs	Υ
)	DEPT T	otal:		93,141.24	Enforcement		25 Vendors	34 Transactions	
2	DEPT 7053	Bill's Sportsman's Service			Boat & Water				
		01-202-000-0000-6360	C	430.98 Copyright 20	SWIVEL BLOCK ROLLER; 1 10-2021 Integrated Fina		071064 S	Services, Labor, Contracts	Y
				. , 5	9	,			

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>No.</u> 7053	Name Account/Formula Bill's Sportsman's Service	Rpt Accr	Amount 430.98	Warrant Description Service Da	tes 1 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
	3950 3950	Public Utilities 01-202-000-0000-6254 Public Utilities		35.41 35.41	UTILITIES-GAS AND ELECT	TRIC 1 Transactions	1345-00	Utilities-Gas and Electric	N
202	DEPT T	otal:		466.39	Boat & Water		2 Vendors	2 Transactions	
252	DEPT 14005	American Tower Corporation 01-252-000-0000-6342		378.14	Corrections JACOBSON TOWER LEASE		409972822	Tower Lease and Rental/Contracts	N
	14005	American Tower Corporation		378.14		1 Transactions	400012022	Tower Lease and Nerital/Outracts	11
	783	Canon Financial Services, Inc 01-252-000-0000-6342		101.52	DISPATCH COPIER LEASE 10/20/2022 12	1/19/2022	29375766	Tower Lease and Rental/Contracts	N
	783	Canon Financial Services, Inc		101.52		1 Transactions			
		Culligan Water 01-252-000-0000-6342 Culligan Water		55.00 55.00	NOV COOLER RENTAL	1 Transactions	150X01376102	Tower Lease and Rental/Contracts	N
	5557 5557	Eddy/Nancy 01-252-003-0000-6330 Eddy/Nancy		90.30 90.30	MILEAGE REIMBURSE- NAI	NCY 1 Transactions	11022022	School Transportation/Travel/Parking	Υ
		Galls LLC 01-252-000-0000-6180 Galls LLC		220.48 220.48	LIZ SHIRTS, KEY KEEPERS	1 Transactions	022415999	Clothing Allowance	N
		Hyytinen Hardware Hank 01-252-000-0000-6590 Hyytinen Hardware Hank		296.86 296.86	PAINT SUPPLIES, ROLLERS	S, TAPE 1 Transactions	3286/3436/3437	Repair & Maintenance Supplies	N
	5503	Keefe Supply Company 01-252-000-0000-6418 01-252-000-0000-6418		88.56 25.08	SNACK CAKES SNACK CAKES		1646107 1646451	Groceries Groceries	N N
	5503	Keefe Supply Company		113.64		2 Transactions			

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

,		Name Account/Formula	Rpt Accr A	Amount	Warrant Description Service Da	ates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
		MEnD Correctional Care, PLLC							
		01-252-000-0000-6262		7,978.67	NOVEMBER HEALTHCARE	SVCS	6864	Contract Service or Medical Service	6
		01-252-000-0000-6262		2,340.90	NOV ADDT'L NURSING SVO	cs	6864	Contract Service or Medical Service	6
	13691	MEnD Correctional Care, PLLC		0,319.57		2 Transactions			
	9692	Minnesota Energy Resources C	Corporation						
		01-252-000-0000-6254		416.42	UTILITIES-GAS AND ELECT	TRIC	4334062132	Utilities-Gas and Electric	N
		01-252-000-0000-6254		88.38	UTILITIES-GAS STS		4334762575	Utilities-Gas and Electric	N
		01-252-000-0000-6254	2	2,664.61	UTILITIES-GAS AND ELECT	TRIC	4335969902	Utilities-Gas and Electric	N
	9692	Minnesota Energy Resources C	Corporation 3	3,169.41		3 Transactions			
	3789	Pan-O-Gold Baking Company							
		01-252-000-0000-6418		78.23	BREAD; BUNS		10002422293002	Groceries	N
	3789	Pan-O-Gold Baking Company		78.23		1 Transactions			
	9808	Performance Foodservice							
		01-252-000-0000-6418		2,313.52	GROCERIES		355429	Groceries	N
	9808	Performance Foodservice	2	2,313.52		1 Transactions			
	3950	Public Utilities							
		01-252-000-0000-6254	8	8,247.26	UTILITIES-NEW JAIL 2		1431-00	Utilities-Gas and Electric	N
		01-252-000-0000-6254		114.69	STS BUILDING		50109-00	Utilities-Gas and Electric	N
		01-252-000-0000-6254		67.93	UTILITIES-GAS AND ELECT	TRIC	507-00	Utilities-Gas and Electric	N
		01-252-000-0000-6254		867.76	NEW JAIL		512-00	Utilities-Gas and Electric	N
	3950	Public Utilities	Ş	9,297.64		4 Transactions			
252	DEPT T	otal:	26	6,434.31	Corrections		12 Vendors	19 Transactions	
253	DEPT				Sentence to Serve				
	1430	Dotzler Power Equipment							
		01-253-000-0000-6415		125.09	SCARL BLADE		29608	Operational Supplies	N
	1430	Dotzler Power Equipment		125.09		1 Transactions			
	12927	Midwest Machinery Co.							
		01-253-000-0000-6415		235.60	ROPE, HANDLE, SPARK PL	_UG	9366085	Operational Supplies	N
		01-253-000-0000-6415		31.94	PICCO FILE; DRIVER		9367831	Operational Supplies	N
	12927	Midwest Machinery Co.		267.54		2 Transactions			

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

253			<u>Rpt</u> Accr A	<u>Amount</u> 392.63	Warrant Description Service D Sentence to Serve	<u>Dates</u>	Invoice # Paid On Bhf # 2 Vendors	Account/Formula Description On Behalf of Name 3 Transactions	1099
254	DEPT 2437	Independent Emerg Services,LIc 01-254-000-0000-6360	14	4,563.66	Enhanced 911 System MAINTENANCE AGREEN 11/30/2022	IENT 11/29/2023	5140	Services, Labor, Contracts	Y
	2437	Independent Emerg Services,Llc	14	4,563.66		1 Transactions			
254	DEPT T	otal:	14	4,563.66	Enhanced 911 System		1 Vendors	1 Transactions	
255	DEPT 86235	The Office Shop Inc 01-255-000-0000-6405		80.98	Crime Victims OFFICE SUPPLIES		1118645-0	Office Supplies	N
	86235	The Office Shop Inc		80.98		1 Transactions			
255	DEPT T	DEPT Total:		80.98	Crime Victims		1 Vendors	1 Transactions	
257	DEPT 14563	Anoka County Corrections 01-257-255-0000-6269	8	8,693.00	Community Corrections ANOKA CONTRACT JUV	SEC DETENT	10.31.2022	Juvenile Detention	N
	14563	Anoka County Corrections	8	8,693.00	10/01/2022	10/31/2022 1 Transactions			
	248 248	Association of Mn Counties 01-257-000-0000-6240 Association of Mn Counties		251.00 251.00	MACCAC WORKLOAD ST 10/24/2022	TUDY DUES 10/24/2022 1 Transactions	62664	Membership/Dues/Association Fees	N
	783	Canon Financial Services, Inc 01-257-000-0000-6342		104.86	CANON COPIER CONTRA 10/20/2022	ACT 11/19/2022	29375767	Office Equipment Rental/Contracts	N
	783	Canon Financial Services, Inc		104.86		1 Transactions			
	11997	Minnesota Monitoring, Inc 01-257-267-0000-6342	2	2,821.25	EHM COSTS 10/01/2022	10/31/2022	13885	Office Equipment Rental/Contracts	N
	11997	Minnesota Monitoring, Inc	2	2,821.25		1 Transactions			

General Fund

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

`		Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service	<u>Dates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	10373	Northwestern MN Juvenile 01-257-255-0000-6269	Ctr-Consequenc	8,184.00	NON SEC JUV DETENTION	ON NMB 10/31/2022	281-179-1	Juvenile Detention	N
	10373	Northwestern MN Juvenile	Ctr-Consequence	8,184.00		1 Transactions	3		
	86235	The Office Shop Inc 01-257-000-0000-6405		179.61	OFFICE SUPPLIES		7174	Office Supplies	N
	86235	The Office Shop Inc		179.61	10/14/2022	10/20/2022 1 Transactions	S		
	6097	Verizon Wireless 01-257-257-0000-6215		163.63	AGENT WORK CELL PHO		9918969706	Wireless Telephone Services	N
	6097	Verizon Wireless		163.63	09/24/2022	10/23/2022 1 Transactions	S		
257	DEPT T	otal:		20,397.35	Community Corrections		7 Vendors	7 Transactions	
711	DEPT				Economic Development				
	248	Association of Mn Counties 01-711-000-0000-6241	s	30.00	MAPCED MEETING 09/30/2022	09/30/2022	62655	Registration Fee	N
	248	Association of Mn Counties	s	30.00	3000-02-	1 Transactions	S		
	15240	AT&T Mobility 01-711-000-0000-6220		44.63	MARK JEFFERS OCTOB 09/26/2022	ER 10/25/2022	287298817699	Telephone	N
		01-711-000-0000-6220		44.52	JEFFERS SEPTEMBER 09/25/2022	10/26/2022	287298817699	Telephone	N
	15240	AT&T Mobility		89.15		2 Transactions	3		
711	DEPT T	otal:		119.15	Economic Development		2 Vendors	3 Transactions	
1	Fund T	otal:		249,072.03	General Fund			178 Transactions	

Reserves Fund

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>Name</u> <u>No. Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service		Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
60	DEPT			Elections				
	9243 Command Central, LLC							
	02-060-000-0000-6800		7,820.00	HMA TIER 3 - 2023		31271	Election Reserve Expense	Υ
				01/01/2023	12/31/2023			
	9243 Command Central, LLC		7,820.00		1 Transactions	S		
60	DEPT Total:		7,820.00	Elections		1 Vendors	1 Transactions	
2	Fund Total:		7,820.00	Reserves Fund			1 Transactions	

Road & Bridge

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

301	Vendor <u>No.</u> DEPT	Name Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service Da	<u>ates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	783	Canon Financial Services, Inc 03-301-000-0000-6342 Canon Financial Services, Inc		192.60 192.60	CONTRACT CHARGE	1 Transactions	29375764	Office Equipment Rental/Contracts	N
		Culligan Water 03-301-000-0000-6342 Culligan Water		55.00 55.00	WATER COOLER RENTAL	1 Transactions	150-10020584-1	Office Equipment Rental/Contracts	N
		MCEA 03-301-000-0000-6241 MCEA		210.00 210.00	2023 MCEA ANNUAL CONF	FERENCE-WE 1 Transactions	÷	Meeting/Conference Registration Fee	N
301	DEPT 1	Fotal:		457.60	R&B Administration		3 Vendors	3 Transactions	
303	DEPT				R&B Highway Maintenance				
	50	Aitkin Body Shop, Inc			2524242422				
	50	03-303-000-0000-6590		60.00	REPAIR LABOR	1 Transactions	2350	Repair & Maintenance Supplies	Υ
	50	Aitkin Body Shop, Inc		60.00		Transactions	•		
	86467	Auto Value Aitkin							
		03-303-000-0000-6590		69.92	REPAIR PARTS-FILTERS		40208858	Repair & Maintenance Supplies	Ν
		03-303-000-0000-6590		167.96	REPAIR PARTS		40209142	Repair & Maintenance Supplies	N
		03-303-000-0000-6590		9.89	REPAIR PARTS-FILTERS		40209217	Repair & Maintenance Supplies	N
		03-303-000-0000-6590		94.99	REPAIR PARTS		40209227	Repair & Maintenance Supplies	Ν
		03-303-000-0000-6590		23.99	REPAIR PARTS		40209312	Repair & Maintenance Supplies	Ν
		03-303-000-0000-6590		6.99	REPAIR PARTS		40210309	Repair & Maintenance Supplies	Ν
	86467	Auto Value Aitkin		373.74		6 Transactions	;		
	13725	Beartooth True Value							
	10720	03-303-000-0000-6417		69.00	SHOP SUPPLIES		B207348	Shop/Building Maintenance	N
	13725	Beartooth True Value		69.00	0.10. 00. 1 2.20	1 Transactions		Chop, Zanamig mamonanos	
	0040	Onwestern Breakers On							
	8048	Cemstone Products Co		4 740 44	CALT CAND		7004467	Winter Cond	NI
		03-303-000-0000-6524 03-303-000-0000-6524		1,746.11	SALT SAND SALT SAND		7004167 7007998	Winter Sand Winter Sand	N N
		03-303-000-0000-6524		4,557.05	SALT SAND		7007998	Winter Sand	N N
		03-303-000-0000-6524		4,204.43 4,095.49	SALT SAND		7009133	Winter Sand	N
		03-303-000-0000-6524		4,095.49 2,132.12	SALT SAND		7009525	Winter Sand	N
		00-000-000-0024	,			noial Cratera		winter Salid	IN
			(Sopyright 20	10-2021 Integrated Fina	iriciai System	19		

WLC1 11/8/22 9:04AM **3** Road & Bridge

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Vendor <u>No.</u> 8048	Name Account/Formula Cemstone Products Co	Rpt Accr	Amount 16,735.20	Warrant Description Service Da	ates 5 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
163 163	Charter Communications Holdin 03-303-000-0000-6220 Charter Communications Holdin		141.51 141.51	PHONE: HWY OFFICE	1 Transactions	0-022823101922	Telephone	N
	Cintas Corporation 03-303-000-0000-6360 03-303-000-0000-6360 03-303-000-0000-6360 Cintas Corporation		15.82 15.82 36.46 68.10	SHOP LAUNDRY SHOP LAUNDRY SHOP LAUNDRY	3 Transactions	4134594147 4135261054 4135960594	Services, Labor, Contracts Services, Labor, Contracts Services, Labor, Contracts	N N N
1115 1115	Contech Engineered Solutions 03-303-000-0000-6417 Contech Engineered Solutions		53.61 53.61	AITKIN SHOP SUPPLIES	1 Transactions	25921636	Shop/Building Maintenance	N
1491 1491	Dutch's Electric, Inc 03-303-000-0000-6521 Dutch's Electric, Inc		7,145.00 7,145.00	POLE REPLACEMENT	1 Transactions	30896	Maintenance Supplies	N
7935 7935	East Central Energy 03-303-000-0000-6254 03-303-000-0000-6254 East Central Energy		72.93 43.54 116.47	SEPT/OCT POWER-MCGR. SEPT/OCT POWER-STREE		35018290 35018408	Utilities-Gas and Electric Utilities-Gas and Electric	N N
	Frontier Communications Holdi 03-303-000-0000-6254 03-303-000-0000-6254 03-303-000-0000-6254 Frontier Communications Holdi		76.58 76.58 76.58 229.74	JACOBSON MCGREGOR PALISADE	3 Transactions	218-752-6591 218-768-4481 218-845-2607	Utilities-Gas and Electric Utilities-Gas and Electric Utilities-Gas and Electric	N N N
1754	Garrison Disposal Company, Inc 03-303-000-0000-6254 03-303-000-0000-6254 Garrison Disposal Company, Inc		140.28 58.50 198.78	AITKIN SHOP ADOPT-A-HWY	2 Transactions	315102 470021	Utilities-Gas and Electric Utilities-Gas and Electric	N N
9009	JOERGER/JOSH 03-303-000-0000-6181		145.00	WORK BOOT REIMBURSE	MENT		Safety Footwear Allowance	N

WLC1 11/8/22 9:04AM **3** Road & Bridge

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Vendor <u>No.</u> 9009	Name Rpt Account/Formula Accr JOERGER/JOSH	<u>Amount</u> 145.00	Warrant Description Service D	ates 1 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
91187 91187	Lake Country Power 03-303-000-0000-6254 03-303-000-0000-6254 Lake Country Power	54.64 53.73 108.37	SEPT/OCT CSAH 14 SEPT/OCT CSAH 6	2 Transactions	141979801 141979901	Utilities-Gas and Electric Utilities-Gas and Electric	N N
10070 10070	LAKES AQUATIC WEED REMOVAL 03-303-000-0000-6521 LAKES AQUATIC WEED REMOVAL	30,227.92 30,227.92	CD 5 WEED REMOVAL	1 Transactions		Maintenance Supplies	N
	Liberty Tire Recycling 03-303-000-0000-6417 Liberty Tire Recycling	2,637.25 2,637.25	TIRE RECYCLING	1 Transactions	2369531	Shop/Building Maintenance	N
9692 9692	Minnesota Energy Resources Corporation 03-303-000-0000-6423 Minnesota Energy Resources Corporation	436.70 436.70	NAT GAS: AITKIN SHOP	1 Transactions	0506048841-000	Fuel for Buildings	N
10720 10720	Nuss Truck Group Inc 03-303-000-0000-6590 Nuss Truck Group Inc	1,428.57 1,428.57	REPAIR PARTS	1 Transactions	6152670P	Repair & Maintenance Supplies	N
11900 11900	Pomp's Tire Service 03-303-000-0000-6590 Pomp's Tire Service	620.60 620.60	TIRES	1 Transactions	530119859	Repair & Maintenance Supplies	N
8537 8537	Powerplan OIB 03-303-000-0000-6590 Powerplan OIB	150.52 150.52	REPAIR PARTS	1 Transactions	2164639	Repair & Maintenance Supplies	N
3950	Public Utilities 03-303-000-0000-6254 03-303-000-0000-6254 03-303-000-0000-6254 03-303-000-0000-6254	52.87 46.65 80.71 47.46	HWY 47 & CR 12 HWY 210W & CR 28 AITKI SHOP:WATER HWY 210/169 E & CR 12	A Transaction	1686-00 59455-00 63335-00 63388-00	Utilities-Gas and Electric Utilities-Gas and Electric Utilities-Gas and Electric Utilities-Gas and Electric	N N N N
3950 9285	Public Utilities Rocon Paving	227.69		4 Transactions			

WLC1 11/8/22 9:04AM **3** Road & Bridge

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

V	/endor No.	Name Account/Formula	<u>Rpt</u> Accr	Amount	Warrant Description Service Da	ates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	110.	03-303-000-0000-6519	<u>/1001</u>	48,150.00	CRUSH 9000 YDS OF GRAVEL		<u>r ala Oli Bili ii</u>	Gravel & Royalties	N
	9285	Rocon Paving		48,150.00		1 Transactions	S		
		-							
	90805	Temco							
		03-303-000-0000-6590		700.00	REPAIR LABOR		27358	Repair & Maintenance Supplies	Υ
		03-303-000-0000-6590		287.00	REPAIR PARTS		27358	Repair & Maintenance Supplies	Υ
		03-303-000-0000-6590		761.40	REPAIR PARTS		27375	Repair & Maintenance Supplies	Υ
	90805	Temco		1,748.40		3 Transactions	3		
	13934	The Tire Barn							
		03-303-000-0000-6590		92.00	REPAIR LABOR		65046	Repair & Maintenance Supplies	N
		03-303-000-0000-6590		617.56	REPAIR PARTS		65046	Repair & Maintenance Supplies	N
		03-303-000-0000-6590		721.95	REPAIR PARTS		65069	Repair & Maintenance Supplies	N
		03-303-000-0000-6590		640.75	REPAIR LABOR		65069	Repair & Maintenance Supplies	N
	13934	The Tire Barn		2,072.26		4 Transactions	3		
	8364	Towmaster, Inc							
		03-303-000-0000-6590		553.22	REPAIR PARTS		453902	Repair & Maintenance Supplies	N
	8364	Towmaster, Inc		553.22		1 Transactions		1, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
	4988	Viking Industrial Center							
		03-303-000-0000-6417		71.44	AITKIN SHOP SUPPLIES		3252612	Shop/Building Maintenance	N
	4988	Viking Industrial Center		71.44		1 Transactions	3		
	8279	Winzer Franchise Company							
		03-303-000-0000-6417		1,300.26	AITKIN SHOP SUPPLIES		521133	Shop/Building Maintenance	N
	8279	Winzer Franchise Company		1,300.26	7	1 Transactions		Chop/ Dananig mannenance	
		. ,		,					
303	DEPT T	otal:		115,069.35	R&B Highway Maintenand	ce	26 Vendors	50 Transactions	
307	DEPT				R&B Capital Infrastructure				
	8694	Department of Transportation							
		03-307-000-0000-6269		1,042.98	JOB COST TRANSFERS		P00016195	Professional Services	N
	8694	Department of Transportation		1,042.98		1 Transactions	3		
307	DEPT T	otal:		1,042.98	R&B Capital Infrastructure)	1 Vendors	1 Transactions	
				,					
3	Fund To	otal:		116,569.93	Road & Bridge			54 Transactions	
				•	-				

WLC1 11/8/22

9:04AM

Health & Human Services

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

400	Vendor <u>No.</u> DEPT 9608	Name Account/Formula AMAZON CAPITAL SERVICES 05-400-440-0410-6405	<u>Rpt</u> <u>Accr</u>	Amount 7.86	Warrant Description Service E Public Health Department AGENCY-SHARPIE/AA BA	<u>Dates</u>	Invoice # Paid On Bhf # 11LV-7C1D-7MYD	Account/Formula Description On Behalf of Name Office Supplies	<u>1099</u> N
		05-400-440-0410-6405		1.26	10/24/2022 OSS-ERGO MOUSE PAD 10/26/2022	10/24/2022	17QR-QDRM-KDN6	Office Supplies	N
	9608	AMAZON CAPITAL SERVICES		9.12		2 Transactions			
	9553	Aramark Uniform Services 05-400-440-0410-6422		7.10	CLEANING SUPPLIES 11/01/2022	11/01/2022	2530069261	Janitorial Supplies	N
	9553	Aramark Uniform Services		7.10		1 Transactions			
	10855	Culligan Water 05-400-440-0410-6342		19.46	COOLER RENTAL SERVI 11/01/2022	CE 11/30/2022	150-10016285-1	Office Equipment Rental/Contracts	N
	10855	Culligan Water		19.46		1 Transactions			
	89765	Minnesota Elevator, Inc 05-400-440-0410-6300		28.21	ELEVATOR SERVICE 11/01/2022	11/30/2022	990371	Maintenance/Service Contracts	N
	89765	Minnesota Elevator, Inc		28.21		1 Transactions			
	9692	Minnesota Energy Resources Co 05-400-440-0410-6254		31.09	GAS BILL 09/21/2022	10/20/2022	506533565-0001	Utilities-Gas and Electric	N
	9692	Minnesota Energy Resources Co	orporation	31.09		1 Transactions			
	9014	PAPER STORM 05-400-440-0410-6360		13.61	PAPER SHREDDING 10/25/2022	10/25/2022	20585	Services, Labor, Contracts	N
	9014	PAPER STORM		13.61	10/20/2022	1 Transactions			
	3950	Public Utilities 05-400-440-0410-6254		369.57	ELECTRIC	10/16/2022	1433-00	Utilities-Gas and Electric	N
	3950	Public Utilities		369.57	09/16/2022	1 Transactions			
	10930	Tidholm Productions							

WLC1 11/8/22

1/8/22 9:04AM Health & Human Services

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description		Invoice #	Account/Formula Description	<u>1099</u>
	No.	Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Dates		Paid On Bhf #	On Behalf of Name	
		05-400-440-0410-6405		50.53	AGENCY - BUS REPLY E 10/28/2022	10/28/2022	2822 2388	Office Supplies	Υ
		05-400-440-0410-6405		36.68	AGENCY - #10 WINDOW	ENV	2823 6373	Office Supplies	Y
		05-400-440-0410-6405		27.05	10/21/2022 AGENCY - BROCHURES		2831 6369	Office Supplies	Υ
	40000	Tidle des Bos desdisses		444.00	10/26/2022	10/26/2022			
	10930	Tidholm Productions		114.26	3 Transactions		i		
400	DEPT T	otal:		592.42	Public Health Department		8 Vendors	11 Transactions	
420	DEPT				Income Maintenance				
	9608	AMAZON CAPITAL SERVICES							
		05-420-600-4800-6405		18.52	AGENCY-SHARPIE/AA B	ATRY/LABELS	11LV-7C1D-7MYD	Office Supplies	N
					10/24/2022	10/24/2022			
		05-420-600-4800-6405		2.97	OSS-ERGO MOUSE PAD	(EM)	17QR-QDRM-KDN6	Office Supplies	N
					10/26/2022	10/26/2022			
	9608	AMAZON CAPITAL SERVICES		21.49		2 Transactions	3		
	9553	Aramark Uniform Services							
	9000	05-420-600-4800-6422		16.72	CLEANING SUPPLIES		2530069261	Janitorial Supplies	N
		00 120 000 1000 0 122		10.72	11/01/2022	11/01/2022	2000000201	Carmonal Cappings	.,
	9553	Aramark Uniform Services		16.72		1 Transactions	3		
	9064	Barneveld Enterprise							
		05-420-640-4800-6379		60.00	IV-D SERVICE 000129616601		2203650	Other Iv-D Charges	Υ
					10/26/2022				
	9064	Barneveld Enterprise		60.00		1 Transactions	3		
	10855	Culligan Water							
	10000	05-420-600-4800-6342		45.87	COOLER RENTAL SERV	ICE	150-10016285-1	Office Equipment Rental/Contracts	N
				10.01	11/01/2022	11/30/2022			
	10855	Culligan Water		45.87		1 Transactions	3		
	11051	Department of Human Services	5	105.00	MCRE/GAMC/NONRES RECIP 09/22 09/01/2022 09/30/2022		A 2000MM4 D041	Chata Chara CAMO Fatata	N.
		05-420-620-4400-6026		125.60			A300MM1D01I State Share - GA	State Share - GAMC Estate	N
		05-420-650-4400-6025		149.98	MA MH TCM CV	09/30/2022	A300MM1D01I	State/Fed Share - MA Program	N
		00 120 000 TT00 0020		143.30	09/01/2022	09/30/2022	, (COCIVIIVI 1 DO 11	Statest od Ghare With Frogram	1.4
		05-420-650-4400-6025		195.25	G8 LTC LT65 CY20		A300MM1D01I	State/Fed Share - MA Program	N
					010-2021 Integrated Fi	nancial Svstem	ns	-	
	2.17.0								

WLC1 11/8/22 9:04AM 5 Health & Human Services

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Vendor <u>No.</u>	Name Account/Formula	Rpt <u>Accr</u>	<u>Amount</u>	Warrant Description Service		Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	05-420-650-4400-6025		4,734.40	09/01/2022 MA LTC UN 65 09/01/2022	09/30/2022	A300MM1D01I	State/Fed Share - MA Program	N
	05-420-650-4400-6026		15,255.88	MA ESTATE COLLECTI 09/01/2022		A300MM1D01I	State/Fed Share - MA Estate	N
	05-420-650-4400-6026		30,511.76	MA ESTATE COLLECTI 09/01/2022	ONS - FED 09/30/2022	A300MM1D01I	State/Fed Share - MA Estate	N
11051	Department of Human Service	ces	50,972.87		6 Transactions			
89765	Minnesota Elevator, Inc							
	05-420-600-4800-6300		66.50	ELEVATOR SERVICE 11/01/2022	11/30/2022	990371	Maintenance/Service Contracts	N
89765	Minnesota Elevator, Inc		66.50	11/01/2022	1 Transactions			
9692	Minnesota Energy Resource	es Corporation						
	05-420-600-4800-6254		73.29	GAS BILL 09/21/2022	10/20/2022	506533565-0001	Utilities-Gas and Electric	N
9692	Minnesota Energy Resource	es Corporation	73.29	00/21/2022	1 Transactions			
9014	PAPER STORM							
	05-420-600-4800-6360		32.08	PAPER SHREDDING 10/25/2022	10/25/2022	20585	Services, Labor, Contracts	N
9014	PAPER STORM		32.08	. 5/25/2522	1 Transactions			
3950	Public Utilities							
	05-420-600-4800-6254		871.13	ELECTRIC 09/16/2022	10/16/2022	1433-00	Utilities-Gas and Electric	N
3950	Public Utilities		871.13	03/10/2022	1 Transactions			
13025	ST LOUIS COUNTY AUDITOR	R						
	05-420-600-4800-6266		3,066.00	REG 3 EDMS-IT SUPPO 07/01/2022	ORT Q3 2022 09/30/2022	IN-00000906	Software Fees/License Fees	N
	05-420-640-4800-6266		1,811.85	REG 3 EDMS-IT SUPPO 07/01/2022	ORT Q3 2022 09/30/2022	IN-0000906	Software Fees/License Fees	N
13025	ST LOUIS COUNTY AUDITOR	R	4,877.85		2 Transactions			
10930	Tidholm Productions 05-420-600-4800-6405		119.11	AGENCY - BUS REPLY 10/28/2022	ENVELOPES 10/28/2022	2822 2388	Office Supplies	Y

WLC1 11/8/22

9:04AM Health & Human Services

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

		Name Account/Formula 05-420-600-4800-6405	Rpt Accr	Amount 86.46	Warrant Description Service I AGENCY - #10 WINDOW		Invoice # Paid On Bhf # 2823 6373	Account/Formula Description On Behalf of Name Office Supplies	<u>1099</u> Y
	10930	05-420-600-4800-6405 Tidholm Productions		63.77 269.34	10/21/2022 AGENCY - BROCHURES 10/26/2022	10/21/2022 10/26/2022 3 Transactions	2831 6369	Office Supplies	Y
						3 Hallsactions			
420	DEPT T	otai:		57,307.14	Income Maintenance		11 Vendors	20 Transactions	
430	DEPT				Social Services				
	9608	AMAZON CAPITAL SERVICES 05-430-700-4800-6405		29.75	AGENCY-SHARPIE/AA BA	ATRY/LABELS 10/24/2022	11LV-7C1D-7MYD	Office Supplies	N
		05-430-700-4800-6405		24.24	SS-PLANNER (AC) 10/24/2022	10/24/2022	11LV-7C1D-7MYD	Office Supplies	N
		05-430-700-4800-6405		4.76	OSS-ERGO MOUSE PAD 10/26/2022	(EM) 10/26/2022	17QR-QDRM-KDN6	Office Supplies	N
	9608	AMAZON CAPITAL SERVICES		58.75		3 Transactions			
	9553	Aramark Uniform Services 05-430-700-4800-6422		26.86	CLEANING SUPPLIES		2530069261	Janitorial Supplies	N
	9553	Aramark Uniform Services		26.86	11/01/2022	11/01/2022 1 Transactions			
	10855	Culligan Water 05-430-700-4800-6342		73.67	COOLER RENTAL SERVI	CE	150-10016285-1	Office Equipment Rental/Contracts	N
	40055			73.67	11/01/2022	11/30/2022 1 Transactions	130 10010203 1	Office Equipment Nertial/Oofficacis	14
	10855	Culligan Water		73.07		Transactions			
	89765	Minnesota Elevator, Inc 05-430-700-4800-6300		106.82	ELEVATOR SERVICE	44/20/2022	990371	Maintenance/Service Contracts	N
	89765	Minnesota Elevator, Inc		106.82	11/01/2022	11/30/2022 1 Transactions			
	9692	Minnesota Energy Resources 0 05-430-700-4800-6254	Corporation	117.72	GAS BILL	40/00/0000	506533565-0001	Utilities-Gas and Electric	N
	9692	Minnesota Energy Resources (Corporation	117.72	09/21/2022	10/20/2022 1 Transactions			
	9014	PAPER STORM							

WLC1 11/8/22 Health & Human Services

9:04AM

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

١	/endor No.	Name Account/Formula	<u>Rpt</u> Accr	Amount	Warrant Description	on ce Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	<u></u>	05-430-700-4800-6360	<u>- 1001</u>	51.51	PAPER SHREDDING	<u> </u>	20585	Services, Labor, Contracts	N
				0	10/25/2022	10/25/2022			
	9014	PAPER STORM		51.51		1 Transactions	3		
	3950	Public Utilities							
		05-430-700-4800-6254		1,399.09	ELECTRIC		1433-00	Utilities-Gas and Electric	N
					09/16/2022	10/16/2022			
	3950	Public Utilities		1,399.09		1 Transactions	5		
	10930	Tidholm Productions							
		05-430-700-4800-6405		191.31	AGENCY - BUS REPL	Y ENVELOPES	2822 2388	Office Supplies	Υ
					10/28/2022	10/28/2022			
		05-430-700-4800-6405		138.86	AGENCY - #10 WINDO	OW ENV	2823 6373	Office Supplies	Υ
					10/21/2022	10/21/2022			
		05-430-700-4800-6405		102.41	AGENCY - BROCHUR	RES	2831 6369	Office Supplies	Υ
					10/26/2022	10/26/2022			
	10930	Tidholm Productions		432.58		3 Transactions	3		
430	DEPT T	otal:		2,267.00	Social Services		8 Vendors	12 Transactions	
5	Fund To	otal:		60,166.56	Health & Human Serv	vices .		43 Transactions	

WLC1 11/8/22 **10** Trust

9:04AM

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

900	DEPT	Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service I Timber Permit Bonds	<u>Dates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
	943 943	Cook Logging 10-900-000-0000-2300 Cook Logging		2,396.98 2,396.98	REFUND BOND	1 Transactions	14173	Timber Permit Bonds	N
	2424 2424	Jobe/Peter N 10-900-000-0000-2300 Jobe/Peter N		751.20 751.20	REFUND BOND	1 Transactions	13814	Timber Permit Bonds	Y
	13493 13493	Kerr Logging/Steve 10-900-000-0000-2300 Kerr Logging/Steve		283.35 283.35	REFUND BOND	1 Transactions	14264	Timber Permit Bonds	S
	3937	Potlatch Corporation 10-900-000-0000-2300 10-900-000-0000-2300		1,252.13 503.67	REFUND BOND REFUND BOND		14041 14129	Timber Permit Bonds Timber Permit Bonds	N N
	3937	Potlatch Corporation		1,755.80		2 Transactions			
	5938 5938	Rieger Logging 10-900-000-0000-2300 Rieger Logging		4,443.82 4,443.82	REFUND BOND	1 Transactions	13999	Timber Permit Bonds	N
	5791	Sappi							
		10-900-000-0000-2300 10-900-000-0000-2300 10-900-000-0000-2300		1,684.00 554.50 808.48	REFUND BOND REFUND BOND REFUND BOND		14078 14168 14277	Timber Permit Bonds Timber Permit Bonds Timber Permit Bonds	N N N
	5791	Sappi		3,046.98	KEI OND BOND	3 Transactions		Timber Femili Bende	.,
900	DEPT T	otal:		12,678.13	Timber Permit Bonds		6 Vendors	9 Transactions	
923	DEPT	Canan Financial Samisas In			Forfeited Tax Sales				
	783	Canon Financial Services, In 10-923-000-0000-6342	C	158.21	CONTRACT CHARGE 10/01/2022	10/31/2022	29375759	Office/Equipment-Rental	N
	783	Canon Financial Services, In	С	158.21	. 3, 3 . , _ 3	1 Transactions			
	943	Cook Logging 10-923-000-0000-6820		2,642.71	REFUND OVER APPRAIS	SED	14173	Refunds & Reimbursements	N

WLC1 11/8/22 **10** Trust

9:04AM

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	. 	Rpt ccr Amount 2,642.71	Warrant Description Service Date	Invoice # S Paid On Bhf # Transactions	Account/Formula Description On Behalf of Name	1099
10855	Culligan Water 10-923-000-0000-6342	40.50		150-10046456-2 0/2022	Office/Equipment-Rental	N
10855	Culligan Water	40.50	1	Transactions		
1754	Garrison Disposal Company, Inc 10-923-000-0000-6254	110.30	SHOP GARBAGE	315055	Utilities-Gas and Electric	N
1754	Garrison Disposal Company, Inc	110.30		1/2022 Transactions		
2424 2424	Jobe/Peter N 10-923-000-0000-6820 Jobe/Peter N	838.30 838.30	REFUND OVERAPPRAISED	13814 Transactions	Refunds & Reimbursements	Y
9825 9825	McGregor Print Pros 10-923-000-0000-6405	750.00 750.00	WINDOW AND NON WINDOW	ENVELOPE 1905 Transactions	Office Supplies	Y
9023	McGregor Print Pros	750.00	ı	Transactions		
9692	Minnesota Energy Resources Corp 10-923-000-0000-6254	poration 138.44	GAS SHOP 09/28/2022 10/2	4343073828 7/2022	Utilities-Gas and Electric	N
9692	Minnesota Energy Resources Corp	ooration 138.44	1	Transactions		
3390	Minnesota UC Fund 10-923-000-0000-6172	1,365.24	L. LAHR UI 07/01/2022 09/3	15667296 0/2022	Unemployment Compensation	N
3390	Minnesota UC Fund	1,365.24		Transactions		
	Potlatch Corporation 10-923-000-0000-6820	934.36	REFUND OVERAPPRAISED	14041	Refunds & Reimbursements	N
3937	10-923-000-0000-6820 Potlatch Corporation	1,742.14 2,676.50	REFUND OVERAPPRAISED 2	14129 Transactions	Refunds & Reimbursements	N
5938	Rieger Logging 10-923-000-0000-6820	16.423.85	REFUND OVERAPPRAISED	13999	Refunds & Reimbursements	N
5938	Rieger Logging	16,423.85		Transactions		

WLC1 11/8/22 10 Trust

9:04AM

Aitkin County



Audit List for Board COMMISSIONER'S VOUCHERS ENTRIES

,	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	<u>l</u>	Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	<u>Service</u>	Dates	Paid On Bhf #	On Behalf of Name	
	5791	Sappi							
		10-923-000-0000-6820		621.04	REFUND OVERAPPRAI	SED	14078	Refunds & Reimbursements	Ν
		10-923-000-0000-6820		623.83	REFUND OVERAPPRAI	SED	14277	Refunds & Reimbursements	Ν
	5791	Sappi		1,244.87		2 Transactions			
	86235	The Office Shop Inc							
		10-923-000-0000-6342		120.53	COPIER CONTRACT		324020-0	Office/Equipment-Rental	Ν
					07/11/2022	10/06/2022			
	86235	The Office Shop Inc		120.53		1 Transactions			
	15229	Thompson/Dennis J							
		10-923-000-0000-6330		55.13	MLEP MTG		1112022	Transportation/Travel/Parking	Ν
		10-923-000-0000-6330		57.22	MACLC MTG		1112022	Transportation/Travel/Parking	Ν
	15229	Thompson/Dennis J		112.35		2 Transactions			
	9617	Timber Lakes Septic Service, Inc	c .						
		10-923-000-0000-6360	В	130.00	AITKIN DUMP		32111	Miscellaneous-Services	N
	9617	Timber Lakes Septic Service, Inc	c.	130.00		1 Transactions			
	12788	Timmer Implement of Aitkin							
		10-923-000-0000-6590		120.86	T250 HYD OIL		IA22935	Repair & Maintenance Supplies	N
	12788	Timmer Implement of Aitkin		120.86		1 Transactions			
923	DEPT T	otal:		26,872.66	Forfeited Tax Sales		15 Vendors	18 Transactions	
10	Fund To	otal:		39,550.79	Trust			27 Transactions	

11/8/22 9:04AM **11** Forest Development

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service I	<u>Dates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
925	DEPT				Resource Management				
	14455	Dependable Demolition			_				
		11-925-000-0000-6360		650.00	DUMPSTER LLCC		585	Services, Labor, Contracts	Υ
	14455	Dependable Demolition		650.00		1 Transactions	3		
	12788	Timmer Implement of Aitkin							
		11-925-000-0000-6590		60.43	HYD OIL		IA22935	Repair & Maintenance Supplies	N
	12788	Timmer Implement of Aitkin		60.43		1 Transactions	5		
925	DEPT T	otal:		710.43	Resource Management		2 Vendors	2 Transactions	
939	DEPT				County Surveyor				
	12525	CES Imaging							
		11-939-000-0000-6405		503.88	CANON PF-06 PRINTHE	AD	INV145262	Office Supplies	N
	12525	CES Imaging		503.88		1 Transactions	S		
	15226	Data Activation Center							
		11-939-000-0000-6405		244.04	DATA PLAN SURVEY EQ	UIP	D119-0011324	Office Supplies	N
					11/01/2022	11/30/2022			
	15226	Data Activation Center		244.04		1 Transactions	3		
939	DEPT T	otal:		747.92	County Surveyor		2 Vendors	2 Transactions	
11	Fund T	otal:		1,458.35	Forest Development			4 Transactions	

11/8/22 9:04AM **13** Taxes & Penalties

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Vendo <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
943 DEPT				Taxes And Penalties			
999999000	13-943-000-0000-2001		1,000.00 1,000.00	Property Tax overpayment 1 Transactions	09-1-095200 s	Cur - Property Taxes	N
4258	St Louis County Auditor 13-943-000-0000-2068		116,199.02	FISCAL DISPARITY-2ND HALF FY22	AITKIN CO	Cur - State Aids	N
4258	St Louis County Auditor		116,199.02	1 Transactions	5		
943 DEPT	Total:		117,199.02	Taxes And Penalties	2 Vendors	2 Transactions	
13 Fund 7	otal:		117,199.02	Taxes & Penalties		2 Transactions	

11/8/22 9:04AM **19** Long Lake Conservation Cer

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service D	ates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
19-521-000-0000-6454		89.40 89.40	CANTEEN PLAYING CARI	DS 1 Transactions	202912	Commissary Supplies-Non Jail	N
19-521-000-0000-6230		731.25 731.25	GRAPHIC DESIGN	1 Transactions	4823	Printing, Publishing & Adv	Y
19-521-000-0000-6454		319.83 319.83	STUFFED ANIMALS FOR	CANTEEN 1 Transactions	SI1467861	Commissary Supplies-Non Jail	N
19-521-000-0000-6454		99.00 99.00	EMBROIDERY FOR SWEA	ATSHIRTS 1 Transactions	1924	Commissary Supplies-Non Jail	Y
19-521-000-0000-6220		685.80	PHONE AND INTERNET 11/01/2022		024-033167	Telephone	N
•	nunications	685.80 1,925.28	LLCC Administration	1 Transactions	5 Vendors	5 Transactions	
		23.92	LLCC Education BOROSCOPE FOR SNAK	E HIBERNACUL	114Q-NCLD-X9QN	Educational Supplies	N
		23.92	LL 00 Education	1 Transactions	4 Vandara	4 Transastiana	
Total.		23.92	LLCC Education		1 vendors	Transactions	
1 Amazon Business 19-523-000-0000-6420		24.38	LLCC Food RUBBER APRONS	4 Transactions	1MXD-PLCF-7LFY	Food Service Supplies	N
		1,939.40	GROCERIES	i transactions	66187086	Groceries-Students	N
	Account/Formula AdventureKEEN 19-521-000-0000-6454 AdventureKEEN Julie Martin Design LLC 19-521-000-0000-6230 Julie Martin Design LLC K and M International Inc 19-521-000-0000-6454 K and M International Inc McGregor Print Pros 19-521-000-0000-6454 McGregor Print Pros 2 SCI Broadband/Savage Communication of the second of the	Account/Formula Accr AdventureKEEN 19-521-000-0000-6454 AdventureKEEN Julie Martin Design LLC 19-521-000-0000-6230 Julie Martin Design LLC K and M International Inc 19-521-000-0000-6454 K and M International Inc McGregor Print Pros 19-521-000-0000-6454 McGregor Print Pros SCI Broadband/Savage Communications 19-521-000-0000-6220 SCI Broadband/Savage Communications Total: That: That Amazon Business 19-522-000-0000-6431 Amazon Business 19-523-000-0000-6420 Amazon Business 19-523-000-0000-6420 Amazon Business Performance Foodservice 19-523-000-0000-6418	Account/Formula Accr Amount AdventureKEEN 19-521-000-0000-6454 89.40 AdventureKEEN 89.40 Julie Martin Design LLC 19-521-000-0000-6230 731.25 K and M International Inc 19-521-000-0000-6454 319.83 K and M International Inc 19-521-000-0000-6454 319.83 K and M International Inc 19-521-000-0000-6454 99.00 McGregor Print Pros 19-521-000-0000-6454 99.00 SCI Broadband/Savage Communications 19-521-000-0000-6220 685.80 C SCI Broadband/Savage Communications 19-521-000-0000-6420 685.80 Total: 1,925.28 Total: 23.92 Total: 23.92	Account/Formula Accr Amount Service D	Account/Formula Accr Amount Service Dates	Account/Formula Accr Amount Service Dates Paid On Bhf #	Account/Formula Accr Amount Service Dates Paid On Bhf # On Behalf of Name

11/8/22 9:04AM **19** Long Lake Conservation Cer

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

,	Vendor <u>No.</u>	Name Account/Formula 19-523-000-0000-6420	<u>Rpt</u> <u>Accr</u>	<u>Amount</u> 87.49	Warrant Description Service Dates SALAD TONGS	Invoice # Paid On Bhf # 66220317	Account/Formula Description On Behalf of Name Food Service Supplies	<u>1099</u> N
	9808	Performance Foodservice		2,026.89	2 Transa			
	4968	Upper Lakes Foods, Inc 19-523-000-0000-6418 19-523-000-0000-6418		1,956.49 29.46	GROCERIES_ STMA SNACKS FOR SCHOOLS	187249-00 1875575-00	Groceries-Students Groceries-Students	N N
		19-523-000-0000-6418		697.47	GROCERIES	188642-00	Groceries-Students	N
	4968	Upper Lakes Foods, Inc		2,683.42	3 Transa	ctions		
523	DEPT 1	otal:		4,734.69	LLCC Food	3 Vendors	6 Transactions	
524	DEPT 7525	Hometown Bldg Supply			LLCC Maintenance			
	7525	19-524-000-0000-6590 Hometown Bldg Supply		132.84 132.84	SUPPLIES TO FIX EC GARAGE 1 Transa	2209-067736 ctions	Repair & Maintenance Supplies	N
524	DEPT 1	otal:		132.84	LLCC Maintenance	1 Vendors	1 Transactions	
19	Fund T	otal:		6,816.73	Long Lake Conservation Center		13 Transactions	

WLC1 11/8/22 **21** Parks

9:04AM

Aitkin County



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>No.</u>	Name Account/Formula	Rpt Accr	Amount	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
520	7525 7525	Hometown Bldg Supply 21-520-000-0000-6523 Hometown Bldg Supply		118.84 118.84	Parks VISPO SUPPLIES 1 Tran	2209-068869 sactions	Misc Bldg & Shop Supplies	N
	14921	Kalvin Welle Lawn Care 21-520-000-0000-6360		2,425.00	SEPT - OCT MOWING - CONTRAC 09/06/2022 10/03/202	22	Services, Labor, Contracts	Υ
	14921	Kalvin Welle Lawn Care		2,425.00	1 Tran	sactions		
	3024	Kingsley/Russell Lee 21-520-000-0000-6802	Q	6,510.00	WHITE PINE ATV & SOLONA LOOP		Trail Grants-State	Υ
		21-520-000-0000-6802	Q	4,727.50	10/25/2022 10/31/202 WHITE PINE RIDERS SOLONA LOG 10/10/2022 10/20/202	OP 274679	Trail Grants-State	Υ
	3024	Kingsley/Russell Lee		11,237.50	2 Tran	sactions		
	3950 3950	Public Utilities 21-520-000-0000-6254 21-520-000-0000-6254 21-520-000-0000-6254 Public Utilities		71.50 166.71 212.24 450.45	MISS ACCESS PARK MISS PARK SHOWER HOUSE ACLD 3 Tran	1670-00 1671-00 348-00 sactions	Utilities-Gas and Electric Utilities-Gas and Electric Utilities-Gas and Electric	N N N
	9617 9617	Timber Lakes Septic Service, Inc 21-520-000-0000-6360 Timber Lakes Septic Service, Inc	В	130.00 130.00	BERGLUND DUMP 1 Tran	31995 sactions	Services, Labor, Contracts	N
520	DEPT 1	otal:		14,361.79	Parks	5 Vendors	8 Transactions	
21	Fund T	otal:		14,361.79	Parks		8 Transactions	

11/8/22 9:04AM **22** Coronavirus Relief Fund **Aitkin County**



Audit List for Board

COMMISSIONER'S VOUCHERS ENTRIES

	Vendor <u>Name</u> <u>No.</u> <u>Account/Formula</u>	<u>Rpt</u> <u>Accr</u> <u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description 1099 On Behalf of Name
716	DEPT 1010 City Of Aitkin		American Rescue Plan - COVID		
	22-716-000-0000-6802	20,000.00	COMMUNITY GRANT PROGRAM 10/26/2022 10/26/2022	10262022	Category: Negative Economic Impacts N
	1010 City Of Aitkin	20,000.00	1 Transact	ions	
716	DEPT Total:	20,000.00	American Rescue Plan - COVID	1 Vendors	1 Transactions
22	Fund Total:	20,000.00	Coronavirus Relief Fund		1 Transactions
	Final Total:	633,015.20	220 Vendors	331 Transactions	

9:04AM

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board COMMISSIONER'S VOUCHERS ENTRIES

Recap by Fund	<u>Fund</u>	AMOUNT	<u>Name</u>		
	1	249,072.03	General Fund		
	2	7,820.00	Reserves Fund		
	3	116,569.93	Road & Bridge		
	5	60,166.56	Health & Human	Services	
	10	39,550.79	Trust		
	11	1,458.35	Forest Developn	nent	
	13	117,199.02	Taxes & Penaltie	es	
	19	6,816.73	Long Lake Cons	ervation Center	
	21	14,361.79	Parks		
	22	20,000.00	Coronavirus Rel	ief Fund	
	All Funds	633,015.20	Total	Approved by,	

WLC1 11/2/22

Aitkin County

2E



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

4:16PM

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

WLC1 11/2/22 4:16PM 3 Road & Bridge **Aitkin County**



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Vendo		<u>Rpt</u>		Warrant Description	Invoice #	Account/Formu		<u>1099</u>
<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Dates	Paid On Bh	<u>of #</u> On Behalf	t of Name	
9457	Marvin Tretter, Inc							
1	03-307-000-0000-6262		53,695.90	Partial Payment #2	20221	Contract Payments	;	N
9457	Marvin Tretter, Inc		53,695.90	1 Transactions				
3 Fund Total:	:		53.695.90	Road & Bridge	1 Ve	ndors 1	1 Transactions	

WLC1 11/2/22 4:16PM

11 Forest Development

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Vendo	Name	<u>Rpt</u>		Warrant Description	Invoice #	Account/Form	ula Description	<u>1099</u>
<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Dates	Paid On	Bhf # On Beha	alf of Name	
48	Aitkin Co Abstract Company 11-925-000-0000-6628		35.471.42	Tennison Property Purchase	22-0259	Land Purchase		N
48	Aitkin Co Abstract Company		35,471.42 35,471.42	1 Transactions		Land Fulchase		IN
	. ,		,					
11 Fund Tota	l:		35,471.42	Forest Development	1 '	Vendors	1 Transactions	
Final	Total:		89,167.32	2 Vendors 2	Transactions			

WLC1 11/2/22

4:16PM

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	3 11	53,695.90 35,471.42	Road & Bridge Forest Development		
	All Funds	89,167.32	Total	Approved by,	

KMR1 11/10/22 8:42AM

Aitkin County

2F



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

KMR1 11/10/22 8:42AM I General Fund

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	Invoice #	Account/Form	ula Description	1099
	<u>No.</u>	Account/Formula	Accr	<u>Amount</u>	Service Dates	Paid On Bhf	# On Beha	alf of Name	
	89991	Bremer Bank							
1		01-040-021-0000-5840		0.64	Receipt Nbr 19103 10/04/2022		Misc Receipts		N
2		01-040-021-0000-5840		1.61	Receipt Nbr 19103 10/04/2022		Misc Receipts		N
3		01-040-021-0000-5840		0.96	Receipt Nbr 19142 10/12/2022		Misc Receipts		Ν
4		01-040-021-0000-5840		0.32	Receipt Nbr 19219 10/26/2022		Misc Receipts		Ν
5		01-090-000-0000-5840		1.93	Receipt Nbr 19117 10/06/2022		Misc Receipts		Ν
6		01-090-000-0000-5840		4.50	Receipt Nbr 19180 10/18/2022		Misc Receipts		N
7		01-090-000-0000-5840		3.22	Receipt Nbr 19220 10/26/2022		Misc Receipts		N
8		01-090-000-0000-5840		1.93	Receipt Nbr 19232 10/28/2022		Misc Receipts		N
9		01-100-000-0000-5840		19.56	Receipt Nbr 4679 10/05/2022		Misc Receipts		N
10		01-100-000-0000-5840		11.06	Receipt Nbr 4697 10/07/2022		Misc Receipts		N
11		01-100-000-0000-5840		0.64	Receipt Nbr 4711 10/11/2022		Misc Receipts		N
12		01-100-000-0000-5840		2.51	Receipt Nbr 4734 10/13/2022		Misc Receipts		N
13		01-100-000-0000-5840		1.87	Receipt Nbr 4753 10/19/2022		Misc Receipts		N
14		01-100-000-0000-5840		0.58	Receipt Nbr 4761 10/20/2022		Misc Receipts		N
15		01-100-000-0000-5840		0.71	Receipt Nbr 4773 10/21/2022		Misc Receipts		Ν
16		01-100-000-0000-5840		5.53	Receipt Nbr 4789 10/25/2022		Misc Receipts		Ν
17		01-100-000-0000-5840		10.16	Receipt Nbr 4806 10/27/2022		Misc Receipts		Ν
18		01-100-000-0000-5840		5.91	Receipt Nbr 4816 10/28/2022		Misc Receipts		Ν
19		01-252-252-0000-5872		55.17	Receipt Nbr 19159 10/14/2022		Phone Card Prisc	oner Welfare(Taxable) N
	89991	Bremer Bank		128.81	19 Transactio	ns			
1 Fu	nd Total:			128.81	General Fund	1 Vend	lors	19 Transactions	

KMR1 11/10/22 8:42AM **3** Road & Bridge

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	Invoice #	Account/Formula	<u>Description</u>	1099
	<u>No.</u>	Account/Formula	Accr	<u>Amount</u>	Service Dates	Paid On Bhf	# On Behalf	of Name	
	89991	Bremer Bank							
20		03-000-000-0000-5505		160.47	Receipt Nbr 19120 10/06/2022		Culverts		N
21		03-000-000-0000-5517		1.93	Receipt Nbr 19086 10/03/2022		Charges-Individuals		Ν
22		03-000-000-0000-5517		0.26	Receipt Nbr 19103 10/04/2022		Charges-Individuals		Ν
23		03-000-000-0000-5517		1.93	Receipt Nbr 19106 10/05/2022		Charges-Individuals		Ν
24		03-000-000-0000-5517		1.93	Receipt Nbr 19112 10/06/2022		Charges-Individuals		Ν
25		03-000-000-0000-5517		11.58	Receipt Nbr 19120 10/06/2022		Charges-Individuals		Ν
26		03-000-000-0000-5517		3.44	Receipt Nbr 19120 10/06/2022		Charges-Individuals		Ν
27		03-000-000-0000-5517		1.93	Receipt Nbr 19131 10/10/2022		Charges-Individuals		Ν
28		03-000-000-0000-5517		1.93	Receipt Nbr 19157 10/14/2022		Charges-Individuals		Ν
29		03-000-000-0000-5517		9.65	Receipt Nbr 19162 10/14/2022		Charges-Individuals		Ν
30		03-000-000-0000-5517		3.44	Receipt Nbr 19162 10/14/2022		Charges-Individuals		Ν
31		03-000-000-0000-5517		0.26	Receipt Nbr 19179 10/18/2022		Charges-Individuals		Ν
32		03-000-000-0000-5517		1.93	Receipt Nbr 19187 10/20/2022		Charges-Individuals		Ν
33		03-000-000-0000-5517		3.86	Receipt Nbr 19199 10/24/2022		Charges-Individuals		Ν
34		03-000-000-0000-5517		1.93	Receipt Nbr 19223 10/27/2022		Charges-Individuals		Ν
35		03-000-000-0000-5517		10.31	Receipt Nbr 19223 10/27/2022		Charges-Individuals		Ν
36		03-000-000-0000-5517		1.93	Receipt Nbr 19227 10/28/2022		Charges-Individuals		Ν
37		03-000-000-0000-5517		1.93	Receipt Nbr 19241 10/31/2022		Charges-Individuals		Ν
84		03-303-000-0000-6570		739.58	Diesel Tax: October 2022		Motor Fuel & Lubrica	nts	Ν
	89991	Bremer Bank		960.22	19 Transaction	ns			
3 Fu	ınd Total:			960.22	Road & Bridge	1 Veno	dors 19	Transactions	

KMR1

11/10/22 8:42AM 19 Long Lake Conservation Cen

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board AUDITOR'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	Accr	<u>Amount</u>	Service Dates	Paid On Bhf	On Behalf of Name	
	89991	Bremer Bank						
38		19-521-000-0000-5885		42.12	Receipt Nbr 19081 10/03/2022		Commissary Sales Taxable	Ν
39		19-521-000-0000-5885		8.17	Receipt Nbr 19082 10/03/2022		Commissary Sales Taxable	Ν
40		19-521-000-0000-5885		2.11	Receipt Nbr 19090 10/03/2022		Commissary Sales Taxable	N
41		19-521-000-0000-5885		28.07	Receipt Nbr 19111 10/06/2022		Commissary Sales Taxable	N
42		19-521-000-0000-5885		10.79	Receipt Nbr 19124 10/07/2022		Commissary Sales Taxable	N
43		19-521-000-0000-5885		6.05	Receipt Nbr 19138 10/11/2022		Commissary Sales Taxable	N
44		19-521-000-0000-5885		5.48	Receipt Nbr 19152 10/13/2022		Commissary Sales Taxable	N
45		19-521-000-0000-5885		50.36	Receipt Nbr 19163 10/17/2022		Commissary Sales Taxable	N
46		19-521-000-0000-5885		37.76	Receipt Nbr 19164 10/17/2022		Commissary Sales Taxable	N
47		19-521-000-0000-5885		4.32	Receipt Nbr 19168 10/17/2022		Commissary Sales Taxable	N
48		19-521-000-0000-5885		2.93	Receipt Nbr 19188 10/20/2022		Commissary Sales Taxable	N
49		19-521-000-0000-5885		2.19	Receipt Nbr 19201 10/24/2022		Commissary Sales Taxable	N
50		19-521-000-0000-5885		0.21	Receipt Nbr 19229 10/28/2022		Commissary Sales Taxable	N
51		19-521-000-0000-5885		3.22	Receipt Nbr 19234 10/31/2022		Commissary Sales Taxable	N
52		19-521-000-0000-5885		7.16	Receipt Nbr 19243 10/31/2022		Commissary Sales Taxable	N
53		19-521-000-0000-5885		7.42	Receipt Nbr 19244 10/31/2022		Commissary Sales Taxable	N
	89991	Bremer Bank		218.36	16 Transactions	3		
19	Fund Total	l:		218.36	Long Lake Conservation	Center 1 Vend	ors 16 Transactions	

KMR1 11/10/22 8:42AM **21** Parks

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	Invoice #	Account/Form	ula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Dates	Paid On Bhf	<u>#</u> On Beha	alf of Name	
	89991	Bremer Bank							
54		21-520-000-0000-5510		1.93	Receipt Nbr 3099 10/03/2022		Co. Parks Campg	round Fees	N
55		21-520-000-0000-5510		2.57	Receipt Nbr 3101 10/04/2022		Co. Parks Campg	round Fees	N
56		21-520-000-0000-5510		3.86	Receipt Nbr 3103 10/05/2022		Co. Parks Campg	round Fees	N
57		21-520-000-0000-5510		11.58	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	N
58		21-520-000-0000-5510		2.57	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
59		21-520-000-0000-5510		9.97	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
60		21-520-000-0000-5510		4.18	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
61		21-520-000-0000-5510		6.21	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
62		21-520-000-0000-5510		1.29	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
63		21-520-000-0000-5510		0.90	Receipt Nbr 3104 10/05/2022		Co. Parks Campg	round Fees	Ν
64		21-520-000-0000-5510		5.79	Receipt Nbr 3105 10/06/2022		Co. Parks Campg	round Fees	Ν
65		21-520-000-0000-5510		1.93	Receipt Nbr 3106 10/10/2022		Co. Parks Campg	round Fees	Ν
66		21-520-000-0000-5510		5.15	Receipt Nbr 3115 10/11/2022		Co. Parks Campg	round Fees	Ν
67		21-520-000-0000-5510		2.57	Receipt Nbr 3116 10/11/2022		Co. Parks Campg	round Fees	Ν
68		21-520-000-0000-5510		11.58	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	Ν
69		21-520-000-0000-5510		11.06	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	Ν
70		21-520-000-0000-5510		3.22	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	Ν
71		21-520-000-0000-5510		5.85	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	Ν
72		21-520-000-0000-5510		3.35	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	Ν
73		21-520-000-0000-5510		0.32	Receipt Nbr 3119 10/12/2022		Co. Parks Campg	round Fees	N
74		21-520-000-0000-5510		1.93	Receipt Nbr 3126 10/17/2022		Co. Parks Campg	round Fees	Ν
75		21-520-000-0000-5510		0.96	Receipt Nbr 3133 10/20/2022		Co. Parks Campg	round Fees	Ν
76		21-520-000-0000-5510		3.28	Receipt Nbr 3133 10/20/2022		Co. Parks Campg	round Fees	Ν
77		21-520-000-0000-5510		0.32	Receipt Nbr 3133 10/20/2022		Co. Parks Campg	round Fees	Ν
78		21-520-000-0000-5510		7.72	Receipt Nbr 3135 10/26/2022		Co. Parks Campg	round Fees	Ν
79		21-520-000-0000-5510		7.72	Receipt Nbr 3135 10/26/2022		Co. Parks Campg	round Fees	Ν
80		21-520-000-0000-5510		5.66	Receipt Nbr 3135 10/26/2022		Co. Parks Campg	round Fees	Ν
81		21-520-000-0000-5510		0.96	Receipt Nbr 3135 10/26/2022		Co. Parks Campg	round Fees	Ν
82		21-520-000-0000-5510		0.32	Receipt Nbr 3135 10/26/2022		Co. Parks Campg	round Fees	N
83		21-520-000-0000-5510		2.44	Receipt Nbr 3139 10/26/2022		Co. Parks Campg	round Fees	N
	89991	Bremer Bank		127.19	30 Transac	tions			
21 F	und Tota	l:		127.19	Parks	1 Ven	dors	30 Transactions	
	Final	Total:		1,434.58	4 Vendors	84 Transactions			

KMR1 11/10/22

8:42AM

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board AUDITOR'S VOUCHERS ENTRIES

Recap by Fund	<u>Fund</u>	AMOUNT	<u>Name</u>		
	1	128.81	General Fund		
	3	960.22	Road & Bridge		
	19	218.36	Long Lake Conser	vation Center	
	21	127.19	Parks		
	All Funds	1,434.58	Total	Approved by,	

WLC1 11/16/22 9:46AM

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Page 1

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept) Print List in Order By: 2

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: N

Paid on Behalf Of Name

on Audit List?: Ν

Type of Audit List: D - Detailed Audit List D

S - Condensed Audit List

Save Report Options?: Ν Page Break By:

1 - Page Break by Fund2 - Page Break by Dept

WLC1 11/16/22 9:46AM

12 Townships/Cities/ARDC/Amt

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

									Ŭ
		Name Account/Formula	Rpt ccr Amo	<u>unt</u>	Warrant Description Service D	ates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
931	DEPT				Towns				
		City Of Aitkin			TOWNS				
		12-931-156-0000-2045	682,278	3.92	Oct/Nov 2022 Settlement			Payable To Village Of Aitkin	N
	1010	City Of Aitkin	682,278			1 Transactions		, ,	
	173	City Of Hill City							
		12-931-157-0000-2045	90,583	3.30	Oct/Nov 2022 Settlement			Payable To Village Of Hill City	N
	173	City Of Hill City	90,583	3.30		1 Transactions			
	1025	City Of McGrath-Treasurer							
		12-931-158-0000-2045	4,592	2.09	Oct/Nov 2022 Settlement			Payable To Village Of Mcgrath	N
	1025	City Of McGrath-Treasurer	4,592	2.09		1 Transactions			
	175	City Of Mcgregor							
		12-931-159-0000-2045	118,279		Oct/Nov 2022 Settlement			Payable To Village Of Mcgregor	N
	175	City Of Mcgregor	118,279	9.89		1 Transactions			
	176	City Of Palisade							
		12-931-160-0000-2045	39,187		Oct/Nov 2022 Settlement			Payable To Village Of Palisade	N
	1/6	City Of Palisade	39,187	7.93		1 Transactions			
	178	City Of Tamarack			O at /N a se 0000 O at the area at			Develop To Ville no Of Tonored	N
	470	12-931-161-0000-2045	19,875		Oct/Nov 2022 Settlement	1 Transactions		Payable To Village Of Tamarack	N
	178	City Of Tamarack	19,875	0.07		1 Hansaciions			
	13110	Lake Minnewawa Lake Improvementalia-931-163-0000-2045	ent District 12,704	1 20	Oct/Nov 2022 Settlement			Payable To Lake Minnewawa LID	N
	13110	Lake Minnewawa Lake Improveme			Oct/NOV 2022 Settlement	1 Transactions		i ayabie io Lake Millilewawa Lib	IN
	13110	Lake militiewawa Lake improveme	12,70-	-		Transactions			
	7000	Town Of Aitkin Treasurer							
		12-931-101-0000-2045	79,610	0.75	Oct/Nov 2022 Settlement			Payable To Aitkin Twp	N
	7000	Town Of Aitkin Treasurer	79,610	0.75		1 Transactions			
	7001	Town Of Ball Bluff Treasurer							
		12-931-102-0000-2045	42,250	0.95	Oct/Nov 2022 Settlement			Payable To Ball Bluff Twp	N
	7001	Town Of Ball Bluff Treasurer	42,250	0.95		1 Transactions			
	7002	Town Of Balsam Treasurer							
		12-931-103-0000-2045	12,886	6.75	Oct/Nov 2022 Settlement			Payable To Balsam Twp	N
			Convri	aht 20	10-2021 Integrated Fina	ancial System	s		

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service D	<u>ates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
7002	Town Of Balsam Treasurer		12,886.75		1 Transactions			
7000	T O(D T							
7003	Town Of Beaver Treasurer 12-931-104-0000-2045		20,017.25	Oct/Nov 2022 Settlement			Payable To Beaver Twp	N
7003	Town Of Beaver Treasurer		20,017.25	Oct/NOV 2022 Settlement	1 Transactions		Tayable To beaver Twp	11
7000	Town of Beaver Treasurer		20,011.20		, managarana			
7004	Town Of Clark Treasurer							
	12-931-105-0000-2045		36,399.39	Oct/Nov 2022 Settlement			Payable To Clark Twp	N
7004	Town Of Clark Treasurer		36,399.39		1 Transactions			
7005	Town Of Cornish Treasurer							
	12-931-106-0000-2045		6,615.97	Oct/Nov 2022 Settlement			Payable To Cornish Twp	N
7005	Town Of Cornish Treasurer		6,615.97		1 Transactions			
7006	Town Of Farm Island Treasure	r						
	12-931-107-0000-2045		88,059.60	Oct/Nov 2022 Settlement			Payable To Farm Island Twp	N
7006	Town Of Farm Island Treasure	r	88,059.60		1 Transactions			
7007	Town Of Fleming Treasurer							
	12-931-108-0000-2045		58,311.13	Oct/Nov 2022 Settlement			Payable To Fleming Twp	N
7007	Town Of Fleming Treasurer		58,311.13		1 Transactions			
7008	Town Of Glen Treasurer							
	12-931-109-0000-2045		43,103.98	Oct/Nov 2022 Settlement			Payable To Glen Twp	N
7008	Town Of Glen Treasurer		43,103.98		1 Transactions			
7009	Town Of Haugen Treasurer							
	12-931-110-0000-2045		62,721.38	Oct/Nov 2022 Settlement			Payable To Haugen Twp	N
7009	Town Of Haugen Treasurer		62,721.38		1 Transactions			
7010	Town Of Hazelton Treasurer							
	12-931-111-0000-2045		84,016.76	Oct/Nov 2022 Settlement			Payable To Hazelton Twp	N
7010	Town Of Hazelton Treasurer		84,016.76		1 Transactions			
4879	Town Of Hill Lake Clerk-Treas							
	12-931-112-0000-2045		55,035.48	Oct/Nov 2022 Settlement			Payable To Hill Lake Twp	N
4879	Town Of Hill Lake Clerk-Treas		55,035.48		1 Transactions			
7011	Town Of Idun Treasurer							

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Pac	ie 4	

	Name Account/Formula	Rpt Appr	Warrant Description t Service		Account/Formula Description On Behalf of Name	<u>1099</u>
<u>INO.</u>	12-931-113-0000-2045	Accr Amour			Payable To Idun Twp	N
7011	Town Of Idun Treasurer	27,070.1 27,070.1	-	1 Transactions	Payable To Idun Twp	IN
7011	Town Or laun Treasurer	21,010.1	,	1 Transactions		
7012	Town Of Jevne Treasurer					
	12-931-114-0000-2045	37,921.2	Oct/Nov 2022 Settlement		Payable To Jevne Twp	N
7012	Town Of Jevne Treasurer	37,921.2	В	1 Transactions		
7013	Town Of Kimberly Treasurer					
	12-931-115-0000-2045	53,001.0	4 Oct/Nov 2022 Settlement		Payable To Kimberly Twp	N
7013	Town Of Kimberly Treasurer	53,001.0	4	1 Transactions		
7014	Town Of Lakeside Treasurer					
	12-931-116-0000-2045	135,979.6	Oct/Nov 2022 Settlement		Payable To Lakeside Twp	N
7014	Town Of Lakeside Treasurer	135,979.6	3	1 Transactions		
7015	Town Of Lee Treasurer					
	12-931-117-0000-2045	5,893.8	7 Oct/Nov 2022 Settlement		Payable To Lee Twp	N
7015	Town Of Lee Treasurer	5,893.8	7	1 Transactions		
7016	Town Of Libby Treasurer					
	12-931-118-0000-2045	7,400.3	Oct/Nov 2022 Settlement		Payable To Libby Twp	N
7016	Town Of Libby Treasurer	7,400.3	2	1 Transactions		
7017	Town Of Logan Treasurer					
	12-931-119-0000-2045	28,154.6	Oct/Nov 2022 Settlement		Payable To Logan Twp	Ν
7017	Town Of Logan Treasurer	28,154.6	5	1 Transactions		
7018	Town Of Macville Treasurer					
	12-931-120-0000-2045	14,711.2	Oct/Nov 2022 Settlement		Payable To Macville Twp	N
7018	Town Of Macville Treasurer	14,711.2	8	1 Transactions		
7019	Town Of Malmo Treasurer					
	12-931-121-0000-2045	37,076.5	Oct/Nov 2022 Settlement		Payable To Malmo Twp	Ν
7019	Town Of Malmo Treasurer	37,076.5	9	1 Transactions		
7020	Town Of Mcgregor - Treasurer					
	12-931-122-0000-2045	12,391.3	Oct/Nov 2022 Settlement		Payable To Mcgregor Twp	N
7020	Town Of Mcgregor - Treasurer	12,391.3	5	1 Transactions		

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Vendor <u>No.</u>	Name Account/Formula	Rpt Accr Amount	Warrant Description Service Da	Invoice # etes Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
	Town Of Millward Treasurer 12-931-141-0000-2045 Town Of Millward Treasurer	13,192.08 13,192.08	Oct/Nov 2022 Settlement	1 Transactions	Payable To Millward Twp	N
		13,192.08		1 Hansactions		
7022	Town Of Morrison Treasurer 12-931-123-0000-2045	18,598.28	Oct/Nov 2022 Settlement		Payable To Morrison Twp	N
7022	Town Of Morrison Treasurer	18,598.28	OUTION 2022 OCHIGINGIN	1 Transactions	r ayabic to Momson twp	
7023	Town Of Nordland Treasurer		0.494			
7023	12-931-124-0000-2045 Town Of Nordland Treasurer	111,407.32 111,407.32	Oct/Nov 2022 Settlement	1 Transactions	Payable To Nordland Twp	N
7024	Town Of Pliny Treasurer					
	12-931-125-0000-2045	19,394.03	Oct/Nov 2022 Settlement		Payable To Pliny Twp	N
7024	Town Of Pliny Treasurer	19,394.03		1 Transactions		
7025	Town Of Rice River Treasurer					
	12-931-126-0000-2045	17,045.43	Oct/Nov 2022 Settlement		Payable To Rice River Twp	N
7025	Town Of Rice River Treasurer	17,045.43		1 Transactions		
7026	Town Of Salo Treasurer		0.444		D 11 T 01 T	
7026	12-931-127-0000-2045 Town Of Salo Treasurer	11,458.10	Oct/Nov 2022 Settlement	1 Transactions	Payable To Salo Twp	N
7026	Town Of Salo Treasurer	11,458.10		Transactions		
7027	Town Of Seavey Treasurer					
7007	12-931-128-0000-2045	11,853.58	Oct/Nov 2022 Settlement	4 Tananatian	Payable To Seavey Twp	N
7027	Town Of Seavey Treasurer	11,853.58		1 Transactions		
7028	Town Of Shamrock Treasurer					
	12-931-129-0000-2045	324,450.35	Oct/Nov 2022 Settlement		Payable To Shamrock Twp	N
7028	Town Of Shamrock Treasurer	324,450.35		1 Transactions		
7029	Town Of Spalding Treasurer					
	12-931-130-0000-2045	18,860.84	Oct/Nov 2022 Settlement		Payable To Spalding Twp	N
7029	Town Of Spalding Treasurer	18,860.84		1 Transactions		
7030	Town Of Spencer Treasurer					
	12-931-131-0000-2045	44,400.89	Oct/Nov 2022 Settlement		Payable To Spencer Twp	N

Aitkin County



Audit List for Board AUDITOR'S VOUCHERS ENTRIES

V	endor	<u>Name</u>	<u>Rpt</u>	Warrant Description		Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	Accr Amount	Service D	<u>Dates</u>	Paid On Bhf #	On Behalf of Name	
	7030	Town Of Spencer Treasurer	44,400.89		1 Transactions			
	7031	Town Of Turner Treasurer						
		12-931-132-0000-2045	48,267.35	Oct/Nov 2022 Settlement			Payable To Turner Twp	N
	7031	Town Of Turner Treasurer	48,267.35		1 Transactions			
	7032	Town Of Verdon Treasurer						
		12-931-133-0000-2045	11,743.82	Oct/Nov 2022 Settlement			Payable To Verdon Twp	N
	7032	Town Of Verdon Treasurer	11,743.82		1 Transactions			
	7033	Town Of Wagner Treasurer						
		12-931-134-0000-2045	43,345.00	Oct/Nov 2022 Settlement			Payable To Wagner Twp	N
	7033	Town Of Wagner Treasurer	43,345.00		1 Transactions			
	7034	Town Of Waukenabo Treasure	er					
		12-931-135-0000-2045	46,285.69	Oct/Nov 2022 Settlement			Payable To Waukenabo Twp	N
	7034	Town Of Waukenabo Treasure	er 46,285.69		1 Transactions			
		Town Of Wealthwood Treasure	er					
		12-931-136-0000-2045	26,009.48				Payable To Wealthwood Twp	N
	7035	Town Of Wealthwood Treasure	er 26,009.48		1 Transactions			
		Town Of White Pine Treasurer	•					
		12-931-137-0000-2045	9,932.70				Payable To White Pine Twp	N
	7036	Town Of White Pine Treasurer	9,932.70		1 Transactions			
		Town Of Williams Treasurer						
		12-931-138-0000-2045	12,893.15				Payable To Williams Twp	N
	7037	Town Of Williams Treasurer	12,893.15		1 Transactions			
		Town Of Workman - Treasurer						
		12-931-139-0000-2045	30,016.16				Payable To Workman Twp	N
	7038	Town Of Workman - Treasurer	30,016.16		1 Transactions			
931	DEPT T	otal:	2,735,285.93	Towns		47 Vendors	47 Transactions	
932	DEPT			Schools				
	393	ISD 1 Aitkin-Treasurer						
		12-932-000-0000-6801	80,634.93	Oct/Nov 2022 Settlement			Appropriations	N
			Copyright	2010-2021 Integrated Fire	nancial System	s		

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

Vendor <u>No.</u> 393	Name Account/Formula ISD 1 Aitkin-Treasurer	Rpt Accr Amo 80,63	<u>unt</u>	Varrant Description Service D	-	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
1985 1985	ISD 182 Crosby-Treasurer 12-932-000-0000-6801 ISD 182 Crosby-Treasurer		0.11 C 0.11	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
	ISD 2 Hill City-Treasurer 12-932-000-0000-6801 ISD 2 Hill City-Treasurer	53,84 53,84		Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
1983 1983	ISD 2165 Hinckley Finlayson-T 12-932-000-0000-6801 ISD 2165 Hinckley Finlayson-T	2,90	3.05 C 3.05	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
1979 1979	ISD 2580 East Central-Treasure 12-932-000-0000-6801 ISD 2580 East Central-Treasure	62	9.82 C 9.82	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
395 395	ISD 4 McGregor-Treasurer 12-932-000-0000-6801 ISD 4 McGregor-Treasurer	332,23 332,2 3		Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
	ISD 473 Isle-Treasurer 12-932-000-0000-6801 ISD 473 Isle-Treasurer	6,23 6,23	3.58 C 3.58	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
1981 1981	ISD 577 Willow River-Treasure 12-932-000-0000-6801 ISD 577 Willow River-Treasure	58	8.52 C 8.52	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
394 394	ISD 698 Floodwood-Treasurer 12-932-000-0000-6801 ISD 698 Floodwood-Treasurer		7.03 C 7.03	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N
	ISD 95 Cromwell-Wright-Trease 12-932-000-0000-6801 ISD 95 Cromwell-Wright-Trease		2.42 C 2.42	Oct/Nov 2022 Settlement	1 Transactions		Appropriations	N

11/16/22 9:46AM 12 Townships/Cities/ARDC/Amb

Aitkin County



Audit List for Board

AUDITOR'S VOUCHERS ENTRIES

932	Vendor <u>Name</u> <u>No. Account/Formula</u> DEPT Total:	Rpt Accr	<u>Amount</u> 477.292.35	Warrant Description Service Dates Schools	Invoice # Paid On Bhf # 10 Vendors	Account/Formula Description On Behalf of Name 10 Transactions	<u>1099</u>
12	Fund Total:		3,212,578.28	Townships/Cities/ARDC/Ambulan	10 13114313	57 Transactions	
	Final Total:		3,212,578.28	57 Vendors	57 Transactions		

WLC1 11/16/22 9:46AM

Aitkin County



Audit List for Board AUD

AUDITOR'S VOUCHERS ENTRIES

Recap by Fund	<u>Fund</u>	AMOUNT	<u>Name</u>		
	12	3,212,578.28	Townships/C	Cities/ARDC/Ambulan	
	All Funds	3,212,578.28	Total	Approved by,	

KMR1 11/3/22

3:12PM

Aitkin County

2H



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

KMR1

11/3/22 3:12PM **19** Long Lake Conservation Cer

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendo <u>No.</u>	or <u>Name</u> <u>Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bh	Account/Formula Description of # On Behalf of Name	<u>1099</u>
8410 1 8410	19-522-000-0000-6267		39.58 39.58	Credit Card Fees 1 Transactions	October 2022	Credit Card Fees	N
19 Fund Tot	al:		39.58	Long Lake Conservation	n Center 1 Ver	ndors 1 Transactions	
Fina	al Total:		39.58	1 Vendors 1	Transactions		

KMR1 11/3/22

3:12PM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	19	39.58	Long Lake	Conservation Center	
	All Funds	39.58	Total	Approved by,	

KMR1 11/7/22

9:47AM

Aitkin County

21



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

KMR1 11/7/22 9:47AM

General Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
8410 1 8410	01-042-000-0000-5524		30.00 30.00	Returned Pmt - NSF 1 Transactions		Handling Fee (Nfs Check)	N
1 Fund Total:	:		30.00	General Fund	1 Vendo	ors 1 Transactions	
Final	Total:		30.00	1 Vendors 1 7	Transactions		

KMR1 11/7/22

9:47AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	30.00	General Fund		
	All Funds	30.00	Total	Approved by,	

WLC1 11/8/22 10:01AM

Aitkin County

2J



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 2 1 - Fund (Page Break by Fund)

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

Page Break By: 1 1 - Page Brea

1 - Page Break by Fund2 - Page Break by Dept

General Fund

10:01AM

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Da	ates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
40	DEPT				Auditor				
_	780	Bremer Bank			Mus Da s Oat 2000			Martina na Daniatra 00/	
3	700	01-040-000-0000-5081		0.03	Mtg Reg Oct 2022	4 Tuanaatiana		Mortgage Registry-3%	N
	780	Bremer Bank		0.03		1 Transactions	i		
40	DEPT T	otal:		0.03	Auditor		1 Vendors	1 Transactions	
42	DEPT				Treasurer				
4	780	Bremer Bank 01-042-000-0000-5079		0.05	Deed Tax Oct 2022			3% State Deed Tax	N
4	780	Bremer Bank		0.05 0.05	D000 10X 001 2022	1 Transactions	i	570 State Bood Tax	.,
		2.0							
42	DEPT T	otal:		0.05	Treasurer		1 Vendors	1 Transactions	
1	Fund T	otal:		0.08	General Fund			2 Transactions	

WLC1 11/8/22 State

Aitkin County 10:01AM



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description 1099 On Behalf of Name
0	DEPT				Undesignated		
	780	Bremer Bank					
2		09-000-000-0000-2025		75,608.10	Deed Tax Oct 2022		State's Share Of Deed Tax (97%) N
1		09-000-000-0000-2026		30,294.77	Mtg Reg Oct 2022		State Share Of Mortgage Registry (97%) N
	780	Bremer Bank		105,902.87	2 Transaction	ıs	
0	DEPT	Total:		105,902.87	Undesignated	1 Vendors	2 Transactions
9	Fund T	otal:		105,902.87	State		2 Transactions
	Final T	otal:		105,902.95	3 Vendors	4 Transactions	

10:01AM

Aitkin County



Page 4

Audit List for Board MANUAL V

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	AMOUNT	<u>Name</u>		
	1 9	0.08 105,902.87	General Fund State		
	All Funds	105,902.95	Total	Approved by,	

10:08AM

Aitkin County

2K



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

WLC1 11/8/22 10:08AM

General Fund

Aitkin County



Audit List for Board MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
780 1 780	Bremer Bank 01-044-904-0000-6360 Bremer Bank		2,258.17 2,258.17	Med FSA Claims 1 Transactions		Flex Plan Withdrawals	N
1 Fund Total:			2,258.17	General Fund	1 Vendo	ors 1 Transactions	
Final	Total:		2,258.17	1 Vendors 1	Transactions		

10:08AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	2,258.17	General Fund		
	All Funds	2,258.17	Total	Approved by,	

10:15AM

Aitkin County

2L



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

WLC1 11/8/22 10:15AM

General Fund

Aitkin County



Audit List for Board MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service Dates	Invoice # Acc Paid On Bhf #	ount/Formula Description On Behalf of Name	<u>1099</u>
780 1 780	Bremer Bank 01-044-904-0000-6360 Bremer Bank		416.68 416.68	Med FSA Claims 11.8.22 1 Transactions		Plan Withdrawals	N
1 Fund Total:			416.68	General Fund	1 Vendors	1 Transactions	
Final [*]	Total:		416.68	1 Vendors 1 T	Fransactions -		

10:15AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	416.68	General Fund		
	All Funds	416.68	Total	Approved by,	

10:19AM

Aitkin County

2M



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

WLC1 11/8/22 10:19AM

General Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # A Paid On Bhf #	ccount/Formula Description On Behalf of Name	<u>1099</u>
780 1 780	Bremer Bank 01-044-904-0000-6360 Bremer Bank		294.62 294.62	FSA Claims 11.8.22 1 Transactions		ex Plan Withdrawals	N
1 Fund Total:			294.62	General Fund	1 Vendors	s 1 Transactions	
Final	Total:		294.62	1 Vendors 1	Transactions		

10:19AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	294.62	General Fund		
	All Funds	294.62	Total	Approved by,	

KMR1 11/9/22

3:59PM

Aitkin County

2N



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

KMR1 11/9/22 3:59PM I General Fund **Aitkin County**



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf	Account/Formula Description f # On Behalf of Name	<u>1099</u>
8410 1 8410	Bremer Bank 01-044-904-0000-6360 Bremer Bank		90.00 90.00	Med FSA Claims 2022 1 Transactions	11.04.2022	Flex Plan Withdrawals	N
1 Fund Total:			90.00	General Fund	1 Ven	dors 1 Transactions	
Final 1	Total:		90.00	1 Vendors 1 7	Transactions		

KMR1 11/9/22

3:59PM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	90.00	General Fund		
	All Funds	90.00	Total	Approved by,	

WLC1 11/10/22 8:17AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 - Fund (Page Break by Fund) 2

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: Ν

D - Detailed Audit List Type of Audit List: D

S - Condensed Audit List

Save Report Options?: Ν Page Break By:

1 - Page Break by Fund2 - Page Break by Dept

WLC1 11/10/22

8:17AM General Fund

Aitkin County

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

,		<u>Name</u>	<u>Rpt</u>		Warrant Description		Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	<u>Service</u>	<u>Dates</u>	Paid On Bhf #	On Behalf of Name	
1	DEPT				Commissioners				
	5462	Bremer Bank (Elan ACH)							
20		01-001-000-0000-6332		133.28	Grand Portage / AMC Dis	st 1 mtg		Hotel / Motel Lodging	N
21		01-001-000-0000-6332		136.87	Hampton Inn / Commiss	mtg		Hotel / Motel Lodging	N
22		01-001-000-0000-6332		357.14	AmericInn / AMC Dist 1 n	ntgs		Hotel / Motel Lodging	N
23		01-001-000-0000-6332		133.28	Grand Portage / AMC Dis	st 1 mtg		Hotel / Motel Lodging	N
40		01-001-000-0000-6332		133.28	Grand Portage / AMC Dis	st 1 mtg		Hotel / Motel Lodging	N
	5462	Bremer Bank (Elan ACH)		893.85		5 Transactions			
1	DEPT T	otal:		893.85	Commissioners		1 Vendors	5 Transactions	
40	DEPT				Auditor				
40	5462	Bremer Bank (Elan ACH)			Auditor				
42	0402	01-040-021-0000-6405		44.76	Amazon / File folders, org	naniz		Office Supplies	N
	5462	Bremer Bank (Elan ACH)		44.76		1 Transactions	;	ower outlines	
		,							
40	DEPT T	otal:		44.76	Auditor		1 Vendors	1 Transactions	
40	DEDT								
43	DEPT	Duaman Danis (Flan ACII)			Assessor				
45	5462	Bremer Bank (Elan ACH) 01-043-000-0000-6360		55.00	Crooter Lakes Listing			Sandaga Labor Contracta CIS Man	nina N
45	5462	Bremer Bank (Elan ACH)		55.00 55.00	Greater Lakes Listing	1 Transactions		Services, Labor, Contracts, GIS Mapp	ollig iv
	3402	Bielliei Balik (Liali ACII)		33.00		1 Transactions	•		
43	DEPT T	otal:		55.00	Assessor		1 Vendors	1 Transactions	
44	DEPT				Central Services				
	5462	Bremer Bank (Elan ACH)							
58		01-044-000-0000-6800		8,318.25-	Elan paid 10.27.22			ELAN - Statement Payment	N
49		01-044-000-0000-6360		16.03	Cisco/Webex		161-00842418	Services, Labor, Contracts	N
					10/06/2022	11/05/2022			
	5462	Bremer Bank (Elan ACH)		8,302.22-		2 Transactions			
44	DEPT T	otal:		8,302.22-	Central Services		1 Vendors	2 Transactions	
49	DEPT				Information Technologies	;			
		Bremer Bank (Elan ACH)							
38		01-049-000-0000-6268		290.00	NetworkLessons.com Re	newal		Staff Training, Development	N

WLC1 11/10/22 8:17AM I General Fund **Aitkin County**



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	<u>No.</u>	Name Account/Formula Bremer Bank (Elan ACH)	Rpt Accr Amo 29	o <u>unt</u> 0.00	Warrant Description Service Dates 1 Transactions	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
49	DEPT T	otal:	29	0.00	Information Technologies	1 Vendors	1 Transactions	
53	DEPT 5462	Bremer Bank (Elan ACH)			Human Resources			
25		01-053-000-0000-6199	79	9.95	Dollar General / SB Recog		Employee Recognition	N
26		01-053-000-0000-6199	100	0.00	County Market / RI Recog		Employee Recognition	N
24		01-053-000-0000-6335	4	0.01	Holiday / Fuel / Crosby recrui		Gas/Vehicle Fuel Charges	N
27		01-053-000-0000-6360	63	0.00	HelloSign / Annual subscrip		Services, Labor, Contracts	Ν
50		01-053-000-0000-6360	319	5.50	ApplicantStack	163329	Services, Labor, Contracts	N
	5462	Bremer Bank (Elan ACH)	1,16	5.46	10/01/2022 11/01/2022 5 Transactions	S		
53	DEPT T	otal:	1,16	5.46	Human Resources	1 Vendors	5 Transactions	
90	DEPT 5462	Bremer Bank (Elan ACH)			Attorney			
44		01-090-000-0000-6405	17:	2.04	Amazon / Office Supplies		Office Supplies	N
		Bremer Bank (Elan ACH)		2.04	1 Transactions	3		
		,						
90	DEPT T	otal:	173	2.04	Attorney	1 Vendors	1 Transactions	
110	DEPT				Courthouse Maintenance			
		Bremer Bank (Elan ACH)			5 W 6			
39		01-110-000-0000-6415		4.00	Dollar General / baking soda		Operational Supplies	N
	5462	Bremer Bank (Elan ACH)	•	4.00	1 Transactions	3		
110	DEPT T	otal:		4.00	Courthouse Maintenance	1 Vendors	1 Transactions	
122	DEPT 5462	Bremer Bank (Elan ACH)			Planning & Zoning			
56		01-122-000-0000-6405	2.	4.98	Amazon / Iphone case		Office, Film, & Field Supplies	N
50		Bremer Bank (Elan ACH)		4.98	1 Transactions	3		• •
	• -	(=)	-					
122	DEPT T	otal:	2	4.98	Planning & Zoning	1 Vendors	1 Transactions	

11/10/22 8:17AM **1** General Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

,	Vendor		<u>Rpt</u>	A	Warrant Description		Invoice #	· ·	<u>1099</u>
		Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Da	<u>ates</u>	Paid On Bhf #	On Behalf of Name	
200	DEPT	D D (El 4011)			Enforcement				
0.4	5462	Bremer Bank (Elan ACH) 01-200-000-0000-6405		07.04	Amazon / USB ext cable			Office Supplies	N
31		01-200-000-0000-6405		37.64	Amazon / thumb drives			Office Supplies Office Supplies	N
32		01-200-000-0000-6403		75.98 37.10	Nationwide / K9 ins			Services, Labor, Contracts	N
35 34		01-200-019-0000-6460			Ray Allen / narcotics case			Deputy Supplies	N
33		01-200-200-0000-6405		60.98 45.46	Amazon / Calc & Organizer			VCET - AIM Office Supplies	N
43		01-200-019-0000-6460		45.46 89.98	Petsmart / K9 food			Deputy Supplies	N
40	5462	Bremer Bank (Elan ACH)		347.14	1 dismart/ No lood	6 Transactions		Dopaty Supplies	. •
	0.02	Bromor Bank (Lian 71011)		• • • • • • • • • • • • • • • • • • • •		•			
200	DEPT T	otal:		347.14	Enforcement		1 Vendors	6 Transactions	
252	DEPT				Corrections				
	5462	Bremer Bank (Elan ACH)							
47		01-252-000-0000-6465		37.50	Amazon / ear plugs			Inmate Supplies	N
46		01-252-000-0000-6590		31.98-	Amazon / credit trans. Strip			Repair & Maintenance Supplies	N
	5462	Bremer Bank (Elan ACH)		5.52		2 Transactions			
252	DEPT T	otal:		5.52	Corrections		1 Vendors	2 Transactions	
253	DEPT				Sentence to Serve				
	5462	Bremer Bank (Elan ACH)							
48		01-253-000-0000-6464		16.98	Amazon / STS work gloves			STS Supplies	N
	5462	Bremer Bank (Elan ACH)		16.98		1 Transactions			
253	DEPT T	otal:		16.98	Sentence to Serve		1 Vendors	1 Transactions	
257	DEPT				Community Corrections				
	5462	Bremer Bank (Elan ACH)							
36		01-257-000-0000-6405		637.09	Amazon / Office Supplies			Office Supplies	N
37		01-257-000-0000-6480		176.98	Amazon / Equipment			Small Equipment: Phones, Chairs, Tools	s,€ N
	5462	Bremer Bank (Elan ACH)		814.07		2 Transactions			
257	DEPT T	otal:		814.07	Community Corrections		1 Vendors	2 Transactions	
280	DEPT				Emergency Management				
	5462	Bremer Bank (Elan ACH)							
29		01-280-003-0000-6330		45.00	Sunny's / Training fuel			Transportation/Travel/Parking	N
				Copyright 20	10-2021 Integrated Fina	ancial Systems	5		

11/10/22 8:17AM General Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

30 28	Vendor <u>No.</u>	Account/Formula 01-280-003-0000-6332 01-280-003-0000-6339	<u>Rpt</u> <u>Accr</u>	Amount 181.40 14.43	Warrant Description Service Dates Fortune Bay / Training Hotel Neighbors BBQ / training meal	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name Hotel / Motel Lodging Meals (Overnight)	1099 N N
	5462	Bremer Bank (Elan ACH)		240.83	3 11	ansactions		
280	DEPT 1	Total:		240.83	Emergency Management	1 Vendors	3 Transactions	
391	DEPT 5462	Bremer Bank (Elan ACH)			Solid Waste			
57	5462	01-391-000-0000-6800 Bremer Bank (Elan ACH)		75.94 75.94	Amazon / Halloween bags 1 Tr	ansactions	Miscellaneous(Promotional)	N
391	DEPT 1	Fotal:		75.94	Solid Waste	1 Vendors	1 Transactions	
1	Fund T	otal:		4,151.65-	General Fund		33 Transactions	

WLC1 11/10/22 8:17AM

Reserves Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>Name</u> <u>No.</u> <u>Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description 1099 On Behalf of Name
120	DEPT			Veterans Service		
	5462 Bremer Bank (Elan ACH)					
19	02-120-000-0000-6357		285.97	Autosmith Aitkin - LC		MNDVA Grant/Donations for Vets Expen N
	5462 Bremer Bank (Elan ACH)		285.97	1 Transaction	s	
120	DEPT Total:		285.97	Veterans Service	1 Vendors	1 Transactions
2	Fund Total:		285.97	Reserves Fund		1 Transactions

11/10/22 8:17AM 8 Road & Bridge

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor	<u>Name</u>	<u>Rpt</u>		Warrant Description	Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	Service Dates	Paid On Bhf #	On Behalf of Name	
302	DEPT				R&B Engineering/Construction			
	5462	Bremer Bank (Elan ACH)						
51		03-302-000-0000-6241		120.00	UofM-const site manager recert		Registration Fee	N
52		03-302-000-0000-6241		500.00	MN State Coll - Conc Plant/Fie		Registration Fee	N
53		03-302-000-0000-6241		250.00	MN State Coll - Bridge Const T		Registration Fee	N
54		03-302-000-0000-6241		250.00	MN State Coll - Bit St inspect		Registration Fee	N
55		03-302-000-0000-6241		575.00	MN State Coll - Conc Plant/Fie		Registration Fee	N
	5462	Bremer Bank (Elan ACH)		1,695.00	5 Transaction	ns		
302	DEPT 1	otal:		1,695.00	R&B Engineering/Construction	1 Vendors	5 Transactions	
3	Fund T	otal:		1,695.00	Road & Bridge		5 Transactions	

WLC1 11/10/22 8:17AM 5 Health & Human Services

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>No.</u>	Name Account/Formula	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service D	<u> Dates</u>	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	1099
400	DEPT				Public Health Department				
	5462	Bremer Bank (Elan ACH)							
1		05-400-440-0410-6339		37.77	LPHG-Emp Meals -overnig 10/12/2022	ht conf 10/13/2022		Meals (Overnight)	N
2		05-400-440-0410-6332		99.33	LPHG-Hotel/Lodging	10/13/2022		Hotel/Lodging	N
15		05-400-400-0402-6266		16.03	COVID-19 Vaccine-Webex	(BH) 11/08/2022	161-00846279	Software Fees/License Fees	N
10		05-400-440-0410-6266		6.74	Webex (CB,CG,PA) 10/09/2022	11/08/2022	161-00846279	Software Fees/License Fees	N
12		05-400-440-0410-6266		16.03	Webex (EM)	11/08/2022	161-00846279	Software Fees/License Fees	N
8		05-400-450-0451-6435		36.66	HE-MAC-Paulbeck's food 10/12/2022		Budget	Public Health Program Related Supplies	s N
9		05-400-450-0451-6435		99.76	HE-MAC-Paulbeck's food 10/19/2022	suppli	Budget	Public Health Program Related Supplies	s N
	5462	Bremer Bank (Elan ACH)		312.32		7 Transactions			
400	DEPT T	otal:		312.32	Public Health Departmen	t	1 Vendors	7 Transactions	
420	DEPT				Income Maintenance				
	5462	Bremer Bank (Elan ACH)							
10		05-420-600-4800-6266		15.87	Webex (CB,CG,PA) 10/09/2022	11/08/2022	161-00846279	Software Fees/License Fees	N
13		05-420-600-4800-6266		16.03	Webex (JG) 10/09/2022	11/08/2022	161-00846279	Software Fees/License Fees	N
14		05-420-640-4800-6266		16.03	Webex (JH) 10/09/2022	11/08/2022	161-00846279	Software Fees/License Fees	N
	5462	Bremer Bank (Elan ACH)		47.93		3 Transactions			
420	DEPT T	otal:		47.93	Income Maintenance		1 Vendors	3 Transactions	
430	DEPT				Social Services				
	5462	Bremer Bank (Elan ACH)							
6		05-430-700-4800-6330		30.00	DECC - Emp parking 10/12/2022	10/14/2022		Mileage/Parking	N
16		05-430-700-4800-6332		260.78	The Suites Hotel-SLCHSC 10/12/2022	Lodgin 10/14/2022		Hotel/Lodging	N

11/10/22 8:17AM Health & Human Services

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

V	/endor	<u>Name</u>	<u>Rpt</u>		Warrant Description	<u>n</u>	Invoice #	Account/Formula Description	<u>1099</u>
	<u>No.</u>	Account/Formula	<u>Accr</u>	<u>Amount</u>	<u>Service</u>	e Dates	Paid On Bhf #	On Behalf of Name	
17		05-430-700-4800-6332		792.06	The Suites Hotel-SLCH	SC Lodgin		Hotel/Lodging	Ν
					10/12/2022	10/14/2022			
7		05-430-700-4800-6339		95.15	Emp Meals-Overnight C	Conf (**Ca		Meals (Overnight)	N
					10/12/2022	10/14/2022			
5		05-430-700-4800-6805		61.00	MH Init-Transp-Jefferso	n Lines	100283000	Mh Init - Transportation	N
					10/18/2022				
10		05-430-700-4800-6266		25.49	Webex (CB,CG,PA)	44/00/0000	161-00846279	Software Fees/License Fees	N
4.4		05-430-700-4800-6266		40.00	10/09/2022	11/08/2022	161-00846279	Software Fees/License Fees	N
11		05-450-700-4600-6266		48.09	Webex (KL,JS,RP) 10/09/2022	11/08/2022	101-00040279	Software rees/License rees	IN
3		05-430-700-4800-6805		200.00	MH Init-Transp- Holiday		94442014	Mh Init - Transportation	N
3		00 100 100 1000 0000		200.00	10/10/2022	Oldilo	01112011	min min Transportation	.,
4		05-430-760-3040-6020		13.78	APS Grant - Paulbeck's	Cty Mar	95046010	APS Assessment/Investigation	N
					10/13/2022	-		-	
	5462	Bremer Bank (Elan ACH)		1,526.35		9 Transaction	ns		
430	DEPT 1	Total:		1,526.35	Social Services		1 Vendors	9 Transactions	
5	Fund T	otal:		1,886.60	Health & Human Servi	ces		19 Transactions	

11/10/22 8:17AM **11** Forest Development

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>Name</u> <u>No. Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
925	DEPT			Resource Management			
	5462 Bremer Bank (Elan ACH)			•			
41	11-925-000-0000-6590		272.70	Shoup Manuf / Blades	3818871	Repair & Maintenance Supplies	N
	5462 Bremer Bank (Elan ACH)		272.70	1 Transaction	ons		
925	DEPT Total:		272.70	Resource Management	1 Vendors	1 Transactions	
11	Fund Total:		272.70	Forest Development		1 Transactions	

11/10/22 8:17AM **25** Opioid Settlement

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

	Vendor <u>Name</u> <u>No. Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
0	DEPT 5462 Bremer Bank (Elan ACH)			Undesignated			
18	25-000-000-0000-6266		11.38	Opioid Webex (ES) 10/18/2022		Data Processing/Computer Services	N
	5462 Bremer Bank (Elan ACH)		11.38	1 Transaction	ons		
0	DEPT Total:		11.38	Undesignated	1 Vendors	1 Transactions	
25	Fund Total:		11.38	Opioid Settlement		1 Transactions	
	Final Total:		0.00	22 Vendors	60 Transactions		

8:17AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page	1	2
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Recap by Fund	<u>Fund</u>	AMOUNT	<u>Name</u>		
	1	-4,151.65	General Fund		
	2	285.97	Reserves Fund		
	3	1,695.00	Road & Bridge		
	5	1,886.60	Health & Human Services		
	11	272.70	Forest Development		
	25	11.38	Opioid Settlement		
	All Funds	0.00	Total	Approved by,	

WLC1 11/14/22 11:21AM

Aitkin County

2P



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

Aitkin County



Audit List for Board

WLC1 11/14/22

11:21AM

19 Long Lake Conservation Cen

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendo <u>No.</u>	r <u>Name</u> <u>Account/Formula</u>	Rpt Accr	Amount	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
8410 1 8410	19-522-000-0000-5553		468.76 468.76	LLCC Wigwam Event Refunds 1 Transactions		Non School Groups	N
19 Fund Tota	al:		468.76	Long Lake Conservation	Center 1 Vendo	rs 1 Transactions	
Final	Total:		468.76	1 Vendors 1 T	Fransactions		

WLC1 11/14/22

11:21AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	19	468.76	Long Lake	Conservation Center	
	All Funds	468.76	Total	Approved by,	

WLC1 11/14/22 **Aitkin County**

2Q



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

10:46AM

2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

Aitkin County WLC1 11/14/22 10:46AM

13 Taxes & Penalties

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Vendor <u>No.</u>	Name Account/Formula	Rpt Accr	<u>Amount</u>	Warrant Description Service Dates	Invoice # Paid On Bhf #	Account/Formula Description On Behalf of Name	<u>1099</u>
8410 1 8410	Bremer Bank 13-943-000-0000-2001 Bremer Bank		600.00 600.00	Auto Deduct taxes 09-0-027600 1 Transaction		Cur - Property Taxes	N
13 Fund Total	:		600.00	Taxes & Penalties	1 Vendo	rs 1 Transactions	
Final 1	Total:		600.00	1 Vendors 1	I Transactions		

WLC1 11/14/22

10:46AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	13	600.00	Taxes & Penalties		
	All Funds	600.00	Total	Approved by,	

WLC1 11/14/22

10:38AM

Aitkin County

2R



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Break by Fund)

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number 4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

WLC1 11/14/22 10:38AM

General Fund

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 2

Vendo <u>No.</u>	or <u>Name</u> <u>Account/Formula</u>	<u>Rpt</u> <u>Accr</u>	<u>Amount</u>	Warrant Description Service Dates	Invoice # Ac Paid On Bhf #	count/Formula Description On Behalf of Name	<u>1099</u>
8410 1 8410	01-044-904-0000-6360		10.29 10.29	Med FSA Claims 2022 1 Transactions		x Plan Withdrawals	N
1 Fund Tota	l:		10.29	General Fund	1 Vendors	1 Transactions	
Fina	Il Total:		10.29	1 Vendors 1 1	Transactions		

WLC1 11/14/22

10:38AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 3

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	10.29	General Fund		
	All Funds	10.29	Total	Approved by,	

KMR1 11/15/22 **Aitkin County**

2S

INTEGRATED FINANCIAL SYSTEMS

Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 1

Print List in Order By: 1 1 - Fund (Page Bro

11:32AM

1 - Fund (Page Break by Fund)2 - Department (Totals by Dept)

3 - Vendor Number

4 - Vendor Name

Explode Dist. Formulas?: Y

Paid on Behalf Of Name

on Audit List?: N

Type of Audit List: D D - Detailed Audit List

S - Condensed Audit List

Save Report Options?: N

KMR1

11/15/22 11:32AM General Fund **Aitkin County**



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 2

Vendo No.	or <u>Name</u> . Account/Formula	<u>Rpt</u> <u>Accr</u>	Amount	Warrant Description Service Dates	<u>Invoice #</u> Paid On	Account/Formula Descript Bhf # On Behalf of Name	tion 1099
		71001	<u>/ tiriodrit</u>	Oct vide Bates	<u>1 dia 011</u>	On Benair of Hame	
841	0 Bremer Bank						
1	01-044-904-0000-6360		395.42	Med FSA Claims 2022	11.15.2022	Flex Plan Withdrawals	N
2	01-044-904-0000-6360		179.75	Med FSA Claims 2022	11.15.2022	Flex Plan Withdrawals	N
841	0 Bremer Bank		575.17	2 Transa	actions		
1 Fund Tota	al:		575.17	General Fund	1	Vendors 2 Transactio	ns
Fina	al Total:		575.17	1 Vendors	2 Transactions		

KMR1 11/15/22

11:32AM

Aitkin County



Audit List for Board

MANUAL WARRANTS/VOIDS/CORRECTIONS

Page 3

Recap by Fund	<u>Fund</u>	<u>AMOUNT</u>	<u>Name</u>		
	1	575.17	General Fund		
	All Funds	575.17	Total	Approved by,	



Board of County Commissioners Agenda Request

Title of Item: Extension of 2020 MN Board of Water and Soil Resources NRBG

 $\frac{2T}{\text{Agenda Item \#}}$

Requested Meeting Date: November 22, 2022

Direction Requested **Action Requested:** REGULAR AGENDA Approve/Deny Motion Discussion Item CONSENT AGENDA Adopt Resolution (attach draft) Hold Public Hearing* INFORMATION ONLY *provide copy of hearing notice that was published Department: Submitted by: Andrew Carlstrom Planning & Zoning **Estimated Time Needed:** Presenter (Name and Title): Andrew Carlstrom, Environmental Services Director Summary of Issue: Aitkin County is requesting Board approval for the extension of the BWSR (Board of Water and Soil Resources) 2020 -Septic Treatment System Upgrade (NRBG - Natural Resources Block Grant) to December 31, 2023 due to the COVID pandemic, staffing shortage/turnover and contractor delays outside our control. Alternatives, Options, Effects on Others/Comments: Deny extension and forfeit monies available from MN BWSR. Recommended Action/Motion: Motion to approve the extension of the 2020 BWSR NRBG. Financial Impact: Is there a cost associated with this request? What is the total cost, with tax and shipping? \$ Is this budgeted? Yes Please Explain:



FY 2020 STATE OF MINNESOTA BOARD OF WATER and SOIL RESOURCES 2020/2021 Natural Resources Block Grant - Aitkin County GRANT AMENDMENT

Grant Agreement Start Date:	9/12/2019
Original Grant Agreement Expiration Date:	12/31/2022
Original Agreement Amount:	\$165,908.00

This amendment is by and between the State of Minnesota, through its Board of Water and Soil Resources ("Board") and Aitkin County, 307 2nd Street NW, Room 310, Aitkin, MN 56431 ("Grantee").

Recitals

1. The Board has a Grant Agreement with the Grantee identified as the 2020/2021 Natural Resources Block Grant - Aitkin County, PO # 3000011002, for the following grants:

Grant ID	Grant Title	Previous Expiration Date	Amended Expiration Date	Previous Award Amount	Amended Award Amount
P20-6444	2020 - Local Water Management - NRBG (Aitkin County)	12/31/2022		\$13,888.00	
P21-6877	2021 - Shoreland-NRBG (Aitkin County)	12/31/2022		\$10,786.00	
P20-7048	2020 - Septic Treatment Systems Upgrade - NRBG (Aitkin County)	12/31/2022	12/31/2023	\$31,480.00	
P20-6618	2020 - Wetland Conservation Act - NRBG (Aitkin County)	12/31/2022		\$33,240.00	
P21-6531	2021 - Local Water Management - NRBG (Aitkin County)	12/31/2022		\$13,888.00	
P20-6962	2020 - Septic Treatment Systems - NRBG (Aitkin County)	12/31/2022		\$18,600.00	
P21-6705	2021 - Wetland Conservation Act - NRBG (Aitkin County)	12/31/2022		\$33,240.00	
P20-6792	2020 - Shoreland-NRBG (Aitkin County)	12/31/2022		\$10,786.00	

- 2. Aitkin County requests an extension for 2020 Septic Treatment Systems Upgrade NRBG (Aitkin County) to 12/31/2023 due to the Covid pandemic, staffing shortage/turnover and contractor delays outside their control. The office is now fully staffed and are confident that the grant funds can be completely spent in 2023.
- 3. Grant reporting must be completed by February 1, 2024, or within 30 days of work completion, whichever comes first.
- 4. The Board and County are willing to amend the Original Contract as stated below.

Contract Amendment

REVISION 1. 1.2 EXPIRATION DATE: is amended as follows:

December 31, 2022, December 31, 2023, or until all obligations have been satisfactorily fulfilled, whichever comes first.

REVISION 2. 2.2.2 Reporting: is amended as follows:

2020/2021 Natural Resources Block Grant - Aitkin County

The grantee will submit a final progress report to the Board by February 1, 2023 February 1, 2024, or within 30 days of completion of the Project, whichever occurs sooner. Information provided must conform to the requirements and formats set by the Board.

Except as amended herein, the terms and conditions of the Original Grant Agreement remain in full force and effect.

APPROVED:	
Aitkin County	Board of Water and Soil Resources
Ву:	Ву:
Title:	Title:
Date:	Date:



Board of County Commissioners Agenda Request

2U Agenda Item #

Requested Meeting Date: November 22, 2022

Title of Item: Approve Committee Assignment Changes **Action Requested: Direction Requested REGULAR AGENDA** Approve/Deny Motion Discussion Item CONSENT AGENDA Adopt Resolution (attach draft) Hold Public Hearing* INFORMATION ONLY *provide copy of hearing notice that was published Submitted by: Department: Jessica Seibert Administration Estimated Time Needed: **Presenter (Name and Title):** Summary of Issue: In an effort to ensure continuity in Board committee attendance and ensure coverage at December meetings, the following changes are effective immediately: Budget Committee - Commissioner Napstad resigns and Commissioner Wedel is appointed Economic Development Committee - Commissioner Napstad resigns and Commissioner Wedel is appointed Northern Counties Land Use Coordinating Board - Commissioner Marcotte resigns and Commissioner Westerlund is appointed Alternatives, Options, Effects on Others/Comments: Recommended Action/Motion: Approve committee changes effectively immediately. Financial Impact: Is there a cost associated with this request? What is the total cost, with tax and shipping? \$ Is this budgeted? Yes No Please Explain:



Board of County Commissioners Agenda Request

2V
Agenda Item #

Requested Meeting Date: 11/22/2022

Title of Item: Medical Examiner Agreement 2023

REGULAR AGENDA	Action Requested:	Direction Requested
CONSENT AGENDA	Approve/Deny Motion	Discussion Item
INFORMATION ONLY	Adopt Resolution (attach dr	aft) Hold Public Hearing* e copy of hearing notice that was published
Submitted by: Sheriff Dan Guida		Department: Sheriff's Office
Presenter (Name and Title): Sheriff Dan Guida		Estimated Time Needed:
Summary of Issue:		
2023 Medical Examiner Services Cont	ract Agreement - River Valley Forens	ic Services
	·	
Alternatives, Options, Effects or	n Others/Comments:	
Alternatives, Options, Effects of	Others/Comments.	
Recommended Action/Motion:		
Financial Impact: Is there a cost associated with this	s request?	□ No
What is the total cost, with tax and	l ship <u>ping</u> ? \$	_
Is this budgeted? ✓ Yes	No Please Exp	lain:

MEDICAL EXAMINER CONTRACT AGREEMENT

Agreement entered into this 2nd day of November, by and between the County of Aitkin, a political subdivision of the State of Minnesota, and River Valley Forensic Services, P.A. for the services of Dr. Kelly Mills, M.D. as Medical Examiner of Aitkin County.

I. Relationship of Parties

- A. Pursuant to County Board action that took place on 11/22/2022 and the authority of Minnesota Statutes Ch. 390, the board of Aitkin County commissioners designates Dr. Kelly Mills, M.D., as Medical Examiner for Aitkin County, hereinafter "the Medical Examiner."
- В. It is agreed that nothing contained in the Agreement is intended or should be construed as creating the relationship of co-partners, joint ventures or an association or an employer/employee relationship between Aitkin County and Dr. Kelly Mills, M.D., River Valley Forensic Services, P.A., or their employees or designee. River Valley Forensic Services, P.A. is an independent contractor, and neither River Valley Forensic Services, P.A. it, its officers, agents or employees shall be considered agents or representatives of the County. The County is interested only in the results to be achieved. The manner and means of conducting the works are under the control of the Medical Examiner, except to the extent they are limited by statute or regulation and the express terms of this Agreement. None of the benefits provided by the County to its employees, including, without limitation, unemployment insurance, workers' compensation insurance, retirement and deferred compensation plans, vacation and sick leave, are available from the County to the Medical Examiner, River Valley Forensic Services, P.A., or the employees, agents or contractors of either. No civil service status shall attach to the Medical Examiner, Medical Staff, agent of contractors of the Medical Examiner or River Valley Forensic Services. P.A. and the County shall make no deductions from sums payable under the terms of this Agreement for state or federal income taxes, FICA, PERA or other payroll type deductions which are associated with an employer-employee relationship.

II. Personnel

A. The Medical Examiner will designate Dr. Kirstin Howell, Dr. Victor Froloff and Dr. Butch Huston to assist in performing the contract and shall be under the control and supervision of the Medical Examiner. Dr. Howell, Dr. Froloff and Dr. Huston shall not be considered employees of the County, nor have a contractual relationship with the County. The County shall be notified prior to the effective date of any changes thereto.

B. The non-medical personnel necessary to support the Medical Examiner in the performance of his duties under this Agreement shall be provided through the County Sheriff's Department. The compensation, benefits, and other terms of employment of these non-medical personnel shall be determined and paid solely by the county.

III. Scope of Duties

- A. The Medical Examiner shall be responsible for conducting a modern medico-legal investigative system for Aitkin County applying the standards of the National Association of Medical Examiners, as they may be amended from time to time. The Medical Examiner shall periodically consult with the County Attorney's Office, police agencies, and others concerned with forensic pathology to review procedures and formats for preparing medical reports and protocols. The Medical Examiner shall perform all duties imposed by Minnesota Statutes Chapter 390, as well as the duties imposed by other statutes applicable to the Medical Examiner's activities. The Medical Examiner shall testify, as required, at inquests, hearings and trials.
- B. The Medical Examiner shall be responsible for the final determination of the cause and manner of death, and the signing of certificates attesting the cause and manner of death. During the temporary absence of the Medical Examiner, a qualified person designated by the Medical Examiner may make the final determination of death, and sign a certificate attesting to the cause and manner of death.
- C. The Medical Examiner shall be entitled to perform other gainful activities which do not interfere with the performance of her duties hereunder.

IV. Compensation

- A. All payments made under this agreement for services rendered by or at the designation of Dr. Kelly Mills, M.D., shall be made to River Valley Forensic Services, P.A.
- B. The County will be responsible for the payment for each complete autopsy or external examination performed by Dr. Kelly Mills, M.D., or her assistants, as the Medical Examiner pursuant to this agreement and billed to Aitkin County upon completion of each examination in keeping with the past practice of the County Medical Examiner's Office.
- C. Compensation for the services under this contract shall be \$250.00/month plus the following on a per service basis: (1) complete forensic autopsy with basic toxicology, at approximately \$2,000, and (2) external examination with basic toxicology at approximately \$1000.

D. Additionally, the County will be responsible for court related preparation / consultation and out of office charges, billed on an hourly basis of \$300/hr., including travel to and from Aitkin County in order to provide testimony in legal proceedings arising out of the duties of the Medical Examiner.

V. Facilities

The facility, together with all the necessary equipment, the supplies, shall be the responsibility of Dr. Kelly Mills, M.D. It is represented by Dr. Kelly Mills, M.D., and understood by the County that Ramsey County Morgue shall be available to Dr. Kelly Mills, M.D., for the performance of this agreement.

VI. Insurance and Indemnification

- A. River Valley Forensic Services, P.A. agrees to indemnify and hold harmless the County of Aitkin, its officials, employees and agents from any and all liability, loss or damage, that the County of Aitkin, its officials, employees and agents may suffer as a result of claims, demands, costs of judgments, including without limitation reasonable attorney's fees arising out of the provision of professional services by Dr. Kelly Mills, M.D., as the Medical Examiner of Aitkin County pursuant to Minnesota Statutes Ch. 390, provided, however, that this indemnification shall be limited to the extent of such claims, demands, costs or judgments, including, without limitation, reasonable attorney's fees are covered by insurance.
- B. The County of Aitkin agrees to indemnify and hold harmless River Valley Forensic Services, P.A., Dr. Kelly Mills, M.D., its and their agents, officers or employees from any and all liability, loss or damage, it, he, its agents, officers or employees may suffer as a result of claims, demands, costs or judgments, including without limitation reasonable attorney's fees, arising from the Medical Examiner's or his agents' performance of his or their duties under this Agreement.
- C. River Valley Forensic Services, P.A. shall obtain and keep in effect the following insurance coverage:
 - 1) Comprehensive General Liability Insurance:
 - (a) Minimum Combined Single Limit \$2,000,000 per occurrence \$4,000,000 aggregate
 - (a) The following coverage must be specifically insured

and certified with no internal sublimits.

- 1. Independent Contractors' Contingent Liability
- 2. Products/Completed Operations Liability
- 3. Contractual Liability
- 4. Personal Injury Liability including claims related to employment and coverage (a) through (e).
- 5. Broad Form Property Damage Liability, or deletion of the "Care, Custody and Control" Exclusion
- 6. Aircraft Liability (if applicable)
- 7. Watercraft Liability (if applicable)
- (b) The Contractual Liability is to be either on a blanket basis for all written and oral contracts or specifically endorsed to acknowledge the contract between the insured and the County.
- 2. Professional Liability Insurance

Minimum Limits \$2,000,000 per occurrence \$4,000,000 aggregate

- 3. Automobile Liability Insurance on Vehicles Owned by River Valley Forensic Services, P.A., or Kelly Mills, M.D., Kirstin Howell, M.D., Victor Froloff, M.D., or Butch Huston, M.D.
- D. All certificates of insurance shall provide that the insurance company shall give the County thirty (30) days prior written notice of cancellation, non-renewal or any material changes in the policy.
- E. The above subparagraphs establish the minimum insurance requirements, and it is the sole responsibility of River Valley Forensic Services, P.A. to purchase and maintain additional insurance that may be necessary in connection with this contract.
- F. The Medical Examiner shall provide a certificate of insurance to the County in a form acceptable to Aitkin County. All insurance policies shall be submitted to the County upon written request.
- G. Nothing in this contract shall constitute a waiver by the County of any statutory limits or exceptions on liability.

VII. Transportation

A. Transportation of the deceased bodies from Aitkin County to the Ramsey County Morgue shall be the responsibility of Aitkin County.

VIII. Miscellaneous Provisions

- A. The Medical Examiner and all the members of the Medical Staff must be licensed to practice in Minnesota, with the Medical Examiner holding certification by the American Board of Pathology.
- B. At the termination of this Agreement, the Medical Examiner shall return all files, records and objects related to cases completed, or in progress, to the County upon written request.

IX. Term and Termination

- A. This agreement shall continue for a period ending 12/31/2023 unless terminated sooner pursuant hereto.
- B. This Agreement may be terminated by either party on forty-five (45) days written notice to the other.
- C. This Agreement may be renewed on an annual basis upon agreement of both parties.

X. Entire Agreement, Modification

- A. It is understood and agreed that the entire Agreement of the parties is contained herein, and that this Agreement supersedes all oral agreements and negotiations between the parties relating to the subject matter hereof, as well as any previous Agreements presently in effect between the parties relating to the subject matter hereof.
- B. This Agreement shall be altered, varied, modified or amended only in writing duly executed by the parties and attached hereto.

COUNTY OF AITKIN

(date)	ByAitkin County Board Chair
(date)	ByAitkin County Administrator
11 91>> (date)	Kelly Mills, M.D. Medical Examiner
(date)	River Valley Forensic Services, P.A. By Kelly Mills, President



Board of County Commissioners Agenda Request



Requested Meeting Date: 11/22/2022

Title of Item: Thermal Viewer Purchase

REGULAR AGENDA	Action Requested:		Direction Requested
CONSENT AGENDA	Approve/Deny Motion		Discussion Item
INFORMATION ONLY	Adopt Resolution (attach dr		Hold Public Hearing* earing notice that was published
Submitted by: Sheriff Dan Guida		Departm Sheriff's O	
Presenter (Name and Title): Sheriff Dan Guida			Estimated Time Needed:
Summary of Issue:			
Board consent to purchase ATN Odin	Compact Thermal Viewers for Deputie	9 S.	
Alternatives, Options, Effects of			
American Technologies Network (ATN) Quote attached		
Recommended Action/Motion: Approve Purchase of equipment			
Approve Furchase of equipment			
Financial Impact: Is there a cost associated with this			No
What is the total cost, with tax and Is this budgeted?	I shipping? \$ 20,980.00 No Please Exp	olain:	
To ano baagotoa.			



American Technologies Network, Corp.

2400 NW 95th Ave. | Doral, FL 33172 phone (800) 910-2862 website: <u>www.atncorp.com</u>

\$20,980.00

TOTAL

DATE: November 10, 2022

Quote for: Daniel Guida

Email: dan.guida@co.aitkin.mn.us

QTY	ITEM#	DESCRIPTION	UNIT PRICE	LINE TOTAL
20	TIMNODIN319X	ATN ODIN LT 320, 19mm (2-4x) Compact Thermal Viewer	\$ 1,049.00	\$20,980.00
20	ACMNODINBAT	Extended Life Battery Pack (included with units)	\$0.00	\$0.00
1	Shipping	Fedex Ground Shipping	Free	Free
			TAX	\$0.00



Board of County Commissioners Agenda Request



Requested Meeting Date: November 22, 2022

Title of Item: Master Services Agreement - CLA

REGULAR AGENDA	Action Requested:	Direction Requested		
CONSENT AGENDA	✓ Approve/Deny Motion	Discussion Item		
INFORMATION ONLY	Adopt Resolution (attach dra *provide*	aft) Hold Public Hearing* e copy of hearing notice that was published		
Submitted by: Kathleen Ryan	Department: Auditor			
Presenter (Name and Title): Kathleen Ryan		Estimated Time Needed:		
Summary of Issue:				
Please find the attached agreements for the 2022 audit. CLA has a new contract management system so that is why they look a little different this year. There is the master services agreement. This contains the general and legal language and is good up to 5 years. Then the statement of work. This includes the specifics for the 2022 audit, including fees. The engagement letter you are used to contained both of these as one document in the past.				
Alternatives, Options, Effects on Others/Comments:				
Recommended Action/Motion: Please approve the audit agreements for Board Chair and Administrator to sign.				
Financial Impact: Is there a cost associated with this What is the total cost, with tax and Is this budgeted? Yes Fees were approved as part of RFP provided in the second seco	shipping? \$ Please Exp.	No		



Statement of Work - Audit Services

November 11, 2022

This document constitutes a statement of work ("SOW") under the master service agreement ("MSA") dated November 11, 2022, or superseding MSA, made by and between CliftonLarsonAllen LLP ("CLA," "we," "us," and "our") and Aitkin County ("you," "your," or "the entity"). We are pleased to confirm our understanding of the terms and objectives of our engagement and the nature and limitations of the services CLA will provide for the entity as of and for the year ended December 31, 2022.

Kristen A. Houle is responsible for the performance of the audit engagement.

Scope of audit services

We will audit the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information, which collectively comprise the basic financial statements of Aitkin County, and the related notes to the financial statements.

The Governmental Accounting Standards Board (GASB) provides for certain required supplementary information (RSI) to accompany the entity's basic financial statements.

The following RSI will be subjected to certain limited procedures, but will not be audited.

- Management's discussion and analysis.
- Budgetary comparison schedules.
- GASB-required supplementary pension and OPEB information.

We will also evaluate and report on the presentation of the following supplementary information other than RSI accompanying the financial statements in relation to the financial statements as a whole:

Schedule of expenditures of federal awards

Combining and individual fund statements

Supporting schedules, as applicable

Budgetary comparison schedules

The following supplementary information accompanying the financial statements will not be subjected to the auditing procedures applied in our audit of the financial statements and our auditors' report will not provide an opinion or any assurance on that information:

Introductory section

Nonaudit services

We will also provide the following nonaudit services:

- · Preparation of your financial statements and the related notes.
- · Preparation of the required supplementary information (RSI).
- · Preparation of the supplementary information.
- · Preparation of schedule of federal awards.
- · Preparation of adjusting journal entries, as applicable
- · Preparation of the Data Collection Form
- · Assistance with implementing new accounting standards, as applicable

Audit objectives

The objectives of our audit of the financial statements are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion about whether your financial statements are fairly presented, in all material respects, in conformity with accounting principles generally accepted in the United States of America (U.S. GAAP). Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with auditing standards generally accepted in the United States of America (U.S. GAAS) will always detect a material misstatement when it exists. Misstatements, including omissions, can arise from fraud or error and are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

Our audit will be conducted in accordance with U.S. GAAS; the standards for financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards require us to be independent of the entity and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. Our audit will include tests of your accounting records, a determination of major program(s) in accordance with the Uniform Guidance, and other procedures we consider necessary to enable us to express opinions and render the required reports.

We will apply certain limited procedures to the RSI in accordance with U.S. GAAS. However, we will not express an opinion or provide any assurance on the RSI because the limited procedures do not provide us

with sufficient evidence to express an opinion or provide any assurance. We will also perform procedures to enable us to express an opinion on whether the supplementary information (as identified above) other than RSI accompanying the financial statements is fairly stated, in all material respects, in relation to the financial statements as a whole.

The objectives of our audit also include:

- Reporting on internal control over financial reporting and on compliance with the provisions of laws, regulations, contracts, and award agreements, noncompliance with which could have a material effect on the financial statements in accordance with *Government Auditing Standards*.
- Reporting on internal control over compliance related to major programs and expressing an opinion (or disclaimer of opinion) on compliance with federal statutes, regulations, and the terms and conditions of federal awards that could have a direct and material effect on each major program in accordance with the Uniform Guidance.

The Government Auditing Standards report on internal control over financial reporting and on compliance and other matters will include a paragraph that states (1) that the purpose of the report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance, and (2) that the report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the entity's internal control and compliance. The Uniform Guidance report on internal control over compliance will include a paragraph that states that the purpose of the report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Both reports will state that the report is not suitable for any other purpose.

We will issue written reports upon completion of our audit of your financial statements and compliance with requirements applicable to major programs.

Circumstances may arise in which our report may differ from its expected form and content based on the results of our audit. Depending on the nature of these circumstances, it may be necessary for us to modify our opinions, add an emphasis-of-matter or other-matter paragraph to our auditors' report, or if necessary, withdraw from the engagement. If our opinions on the financial statements or compliance are other than unmodified, we will discuss the reasons with you in advance. If circumstances occur related to the condition of your records, the availability of sufficient, appropriate audit evidence, or the existence of a significant risk of material misstatement of the financial statements or material noncompliance caused by error, fraudulent financial reporting, or misappropriation of assets, which in our professional judgment prevent us from completing the audit or forming an opinion on the financial statements or an opinion on compliance, we retain the right to take any course of action permitted by professional standards, including declining to express opinions or issue reports, or withdrawing from the engagement.

As part of our audit, we will also perform the procedures and provide the report required by the Minnesota Legal Compliance Audit Guide for Political Subdivisions.

It is our understanding that our auditors' report will be included in your annual report which is comprised of your financial statements and that your annual report will be issued by September 30, 2023. Our responsibility for other information included in your annual report does not extend beyond the financial information identified in our opinion on the financial statements. We have no responsibility for determining whether such other information is properly stated and do not have an obligation to perform any procedures to corroborate other information contained in your annual report. We are required by professional standards to read the other information and consider whether a material inconsistency exists between the other information and the financial statements because the credibility of the financial statements and our auditors' report thereon may be undermined by material inconsistencies between the audited financial statements and other information. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Auditor responsibilities, procedures, and limitations

We will conduct our audit in accordance with U.S. GAAS, the standards for financial audits contained in *Government Auditing Standards*, and the Uniform Guidance.

Those standards require that we exercise professional judgment and maintain professional skepticism throughout the planning and performance of the audit. As part of our audit, we will:

- Identify and assess the risks of material misstatement of the financial statements and material noncompliance, whether due to fraud or error, design and perform audit procedures responsive to those risks, and evaluate whether audit evidence obtained is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement or a material noncompliance resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we have identified during the audit.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements, including the amounts and disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Conclude, based on our evaluation of audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern for a reasonable period of time.

Although our audit planning has not been concluded and modifications may be made, we have identified the following significant risk(s) of material misstatement as part of our audit planning:

- Management override of internal controls
- Improper revenue recognition
- Lack of adequate segregation of duties
- Risk that construction in progress may not be accurately recorded and capitalized

There is an unavoidable risk, because of the inherent limitations of an audit, together with the inherent limitations of internal control, that some material misstatements or noncompliance may not be detected, even though the audit is properly planned and performed in accordance with U.S. GAAS, Government Auditing Standards, and the Uniform Guidance. Because we will not perform a detailed examination of all transactions, material misstatements, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the entity or to acts by management or employees acting on behalf of the entity, may not be detected. Because the determination of waste and abuse is subjective, *Government Auditing Standards* do not require auditors to perform specific procedures to detect waste or abuse in financial audits nor do they expect auditors to provide reasonable assurance of detecting waste or abuse.

In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements or on major programs. However, we will inform the appropriate level of management and those charged with governance of any material errors, fraudulent financial reporting, or misappropriation of assets that come to our attention. We will also inform the appropriate level of management and those charged with governance of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential. We will include such matters in the reports required for a single audit.

Tests of controls may be performed to test the effectiveness of certain controls that we consider relevant to preventing and detecting fraud or errors that are material to the financial statements and to preventing and detecting misstatements resulting from noncompliance with provisions of laws, regulations, contracts, and grant agreements that have a material effect on the financial statements. Our tests, if performed, will be less in scope than would be necessary to render an opinion on internal control and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to *Government Auditing Standards*.

As required by the Uniform Guidance, we will perform tests of controls over compliance to evaluate the effectiveness of the design and operation of controls that we consider relevant to preventing or detecting material noncompliance with compliance requirements applicable to each major program. However, our tests will be less in scope than would be necessary to render an opinion on those controls and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to the Uniform Guidance.

An audit is not designed to provide assurance on internal control or to identify deficiencies, significant deficiencies, or material weaknesses in internal control. However, we will communicate to you in writing significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we identify during the audit that are required to be communicated under AICPA professional standards, Government Auditing Standards, and the Uniform Guidance.

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the entity's compliance with the provisions of laws, regulations, contracts, and grant agreements that have a material effect on the financial statements. However, the objective of our audit will not be to provide an opinion on overall compliance and we will not express such an opinion in our report on compliance issued pursuant to Government Auditing Standards.

We will include in our report on internal control over financial reporting and on compliance relevant information about any identified or suspected instances of fraud and any identified or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements that may have occurred that are required to be communicated under Government Auditing Standards.

The Uniform Guidance requires that we also plan and perform the audit to obtain reasonable assurance about whether the auditee has complied with federal statutes, regulations, and the terms and conditions of federal awards that may have a direct and material effect on each of the entity's major programs. Our procedures will consist of tests of transactions and other applicable procedures described in the "OMB Compliance Supplement" for the types of compliance requirements that could have a direct and material effect on each of the entity's major programs. The purpose of these procedures will be to express an opinion on the entity's compliance with requirements applicable to each of its major programs in our report on compliance issued pursuant to the Uniform Guidance.

We will evaluate the presentation of the schedule of expenditures of federal awards accompanying the financial statements in relation to the financial statements as a whole. We will make certain inquiries of management and evaluate the form, content, and methods of preparing the schedule to determine whether the information complies with U.S. GAAP and the Uniform Guidance, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We will compare and reconcile the schedule to the underlying accounting records and other records used to prepare the financial statements or to the financial statements themselves.

Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

Management responsibilities

Our audit will be conducted on the basis that you (management and, when appropriate, those charged with governance) acknowledge and understand that you have certain responsibilities that are fundamental to the conduct of an audit.

You are responsible for the preparation and fair presentation of the financial statements, RSI, and the schedule of expenditures of federal awards in accordance with U.S. GAAP. Management is also responsible for identifying all federal awards received, understanding and complying with the compliance requirements, and for the preparation of the schedule of expenditures of federal awards (including notes and noncash assistance received) in accordance with the requirements of the Uniform Guidance.

Management's responsibilities include the selection and application of accounting principles; recording and reflecting all transactions in the financial statements; determining the reasonableness of significant

accounting estimates included in the financial statements; adjusting the financial statements to correct material misstatements; and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements taken as a whole. In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern for 12 months beyond the financial statement date.

Management is responsible for compliance with applicable laws and regulations and the provisions of contracts and grant agreements, including compliance with federal statutes, regulations, and the terms and conditions of federal awards applicable to the entity's federal programs. Your responsibilities also include identifying significant contractor relationships in which the contractor has responsibility for program compliance and for the accuracy and completeness of that information.

You are responsible for the design, implementation, and maintenance of effective internal control, including internal control over compliance, relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error, including evaluating and monitoring ongoing activities and safeguarding assets to help ensure that appropriate goals and objectives are met; and that there is reasonable assurance that government programs are administered in compliance with compliance requirements.

You are responsible for the design, implementation, and maintenance of internal controls to prevent and detect fraud; assessing the risk that the financial statements may be materially misstated as a result of fraud; and for informing us about all known or suspected fraud affecting the entity involving (1) management, (2) employees who have significant roles in internal control, and (3) others where the fraud could have a material effect on the financial statements. Your responsibilities include informing us of your knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, grantors, regulators, or others. In addition, you are responsible for implementing systems designed to achieve compliance with applicable laws and regulations and the provisions of contracts and grant agreements, including compliance with federal statutes, regulations, and the terms and conditions of federal awards applicable to the entity's federal programs; identifying and ensuring that the entity complies with applicable laws, regulations, contracts, and grant agreements, including compliance with federal statutes, regulations, and the terms and conditions of federal awards applicable to the entity's federal programs; and informing us of all instances of identified or suspected noncompliance whose effects on the financial statements should be considered.

You are responsible for taking timely and appropriate steps to remedy any fraud; noncompliance with provisions of laws, regulations, contracts, or grant agreements; or abuse that we may report. Additionally, as required by the Uniform Guidance, it is management's responsibility to evaluate and monitor noncompliance with federal statutes, regulations, and the terms and conditions of federal awards; take prompt action when instances of noncompliance are identified, including noncompliance identified in audit findings; and to follow up and take prompt corrective action on reported audit findings and to prepare a summary schedule of prior audit findings and a corrective action plan. The summary schedule of prior audit findings should be available for our review.

You are responsible for providing us with (1) access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, including amounts and disclosures, such as records, documentation, identification of all related parties and all related-party relationships and transactions, and other matters, and for the accuracy and completeness of that information (including information from within and outside of the general and subsidiary ledgers), and for ensuring management information and financial information is reliable and properly reported; (2) access to personnel, accounts, books, records, supporting documentation, and other information as needed to perform an audit under the Uniform Guidance; (3) additional information that we may request for the purpose of the audit; and (4) unrestricted access to persons within the entity from whom we determine it necessary to obtain audit evidence.

You agree to inform us of events occurring or facts discovered subsequent to the date of the financial statements that may affect the financial statements.

You agree to include our report on the schedule of expenditures of federal awards in any document that contains and indicates that we have reported on the schedule of expenditures of federal awards. You also agree to include the audited financial statements with any presentation of the schedule of expenditures of federal awards that includes our report thereon or make the audited financial statements readily available to intended users of the schedule of expenditures of federal awards no later than the date the schedule of expenditures of federal awards is issued with our report thereon. Your responsibilities include acknowledging to us in the representation letter that (1) you are responsible for presentation of the schedule of expenditures of federal awards in accordance with the Uniform Guidance; (2) you believe the schedule of expenditures of federal awards, including its form and content, is fairly presented in accordance with the Uniform Guidance; (3) the methods of measurement or presentation have not changed from those used in the prior period (or, if they have changed, the reasons for such changes); and (4) you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the schedule of expenditures of federal awards.

Management is responsible for the preparation and fair presentation of other supplementary information in accordance with U.S. GAAP. You agree to include our report on the supplementary information in any document that contains, and indicates that we have reported on, the supplementary information. You also agree to include the audited financial statements with any presentation of the supplementary information that includes our report thereon or make the audited financial statements readily available to users of the supplementary information no later than the date the supplementary information is issued with our report thereon. You agree to provide us written representations related to the presentation of the supplementary information.

Management is responsible for the preparation of other information included in your annual report. You agree to provide the final version of such information to us in a timely manner, and if possible, prior to the date of our auditors' report. If the other information included in your annual report will not be available until after the date of our auditors' report on the financial statements, you agree to provide written representations indicating that (1) the information is consistent with the financial statements, (2) the other information does not contain material misstatements, and (3) the final version of the documents will be provided to us when available, and prior to issuance of the annual report by the entity, so that we can

complete the procedures required by professional standards. Management agrees to correct material inconsistencies that we may identify. You agree to include our auditors' report in any document containing financial statements that indicates that such financial statements have been audited by us.

Management is responsible for providing us with a written confirmation concerning representations made by you and your staff to us in connection with the audit and the presentation of the basic financial statements and RSI. During our engagement, we will request information and explanations from you regarding, among other matters, the entity's activities, internal control, future plans, specific transactions, and accounting systems and procedures. The procedures we will perform during our engagement and the conclusions we reach as a basis for our report will be heavily influenced by the representations that we receive in the representation letter and otherwise from you. Accordingly, inaccurate, incomplete, or false representations could cause us to expend unnecessary effort or could cause a material fraud or error to go undetected by our procedures. In view of the foregoing, you agree that we shall not be responsible for any misstatements in the entity's financial statements that we may fail to detect as a result of misrepresentations made to us by you.

Management is responsible for establishing and maintaining a process for tracking the status of audit findings and recommendations. Management is also responsible for identifying and providing report copies to us of previous financial audits, attestation engagements, performance audits, or other studies related to the objectives discussed in the "Audit objectives" section of this letter. This responsibility includes relaying to us corrective actions taken to address significant findings and recommendations resulting from those audits, attestation engagements, performance audits, or other engagements or studies. You are also responsible for providing management's views on our current findings, conclusions, and recommendations, as well as your planned corrective actions for the report, and for the timing and format for providing that information.

Responsibilities and limitations related to nonaudit services

For all nonaudit services we may provide to you, management agrees to assume all management responsibilities; oversee the services by designating an individual, preferably within senior management, who possesses suitable skill, knowledge, and/or experience to understand and oversee the services; evaluate the adequacy and results of the services; and accept responsibility for the results of the services. Management is also responsible for ensuring that your data and records are complete and that you have received sufficient information to oversee the services.

Use of financial statements

Should you decide to include or incorporate by reference these financial statements and our auditors' report(s) thereon in a future private placement or other offering of equity or debt securities, you agree that we are under no obligation to re-issue our report or provide consent for the use of our report in such a registration or offering document. We will determine, at our sole discretion, whether we will re-issue our report or provide consent for the use of our report only after we have performed the procedures we consider necessary in the circumstances. If we decide to re-issue our report or consent to the use of our report, we will be required to perform certain procedures including, but not limited to, (a) reading other information incorporated by reference in the registration statement or other offering document and (b) subsequent event procedures. These procedures will be considered an engagement separate and distinct from our audit

engagement, and we will bill you separately. If we decide to re-issue our report or consent to the use of our report, you agree that we will be included on each distribution of draft offering materials and we will receive a complete set of final documents. If we decide not to re-issue our report or decide to withhold our consent to the use of our report, you may be required to engage another firm to audit periods covered by our audit reports, and that firm will likely bill you for its services. While the successor auditor may request access to our workpapers for those periods, we are under no obligation to permit such access.

If the parties (i.e., you and CLA) agree that CLA will not be involved with your official statements related to municipal securities filings or other offering documents, we will require that any official statements or other offering documents issued by you with which we are not involved clearly indicate that CLA is not involved with the contents of such documents. Such disclosure should read as follows:

CliftonLarsonAllen LLP, our independent auditor, has not been engaged to perform and has not performed, since the date of its report included herein, any procedures on the financial statements addressed in that report. CliftonLarsonAllen LLP also has not performed any procedures relating to this offering document.

With regard to the electronic dissemination of audited financial statements, including financial statements published electronically on your website or submitted on a regulator website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in those sites or to consider the consistency of other information in the electronic site with the original document.

We may issue preliminary draft financial statements to you for your review. Any preliminary draft financial statements should not be relied on or distributed.

Engagement administration and other matters

We understand that your employees will prepare all confirmations, account analyses, and audit schedules we request and will locate any documents or invoices selected by us for testing. A list of information we expect to need for our audit and the dates required will be provided in a separate communication.

At the conclusion of the engagement, we will complete the auditor sections of the electronic Data Collection Form SF-SAC and perform the steps to certify the Form SF-SAC and single audit reporting package. It is management's responsibility to complete the auditee sections of the Data Collection Form. We will create the single audit reporting package PDF file for submission; however, it is management's responsibility to review for completeness and accuracy and electronically submit the reporting package (including financial statements, schedule of expenditures of federal awards, summary schedule of prior audit findings, auditors' reports, and corrective action plan) along with the Data Collection Form to the federal audit clearinghouse and, if appropriate, to pass-through entities. The Data Collection Form and the reporting package must be electronically submitted within the earlier of 30 calendar days after receipt of the auditors' reports or nine months after the end of the audit period.

We will provide copies of our reports to the entity; however, management is responsible for distribution of the reports and the financial statements. Unless restricted by law or regulation, or containing confidential or sensitive information, copies of our reports are to be made available for public inspection.

The audit documentation for this engagement is the sole and exclusive property of CLA and constitutes confidential and proprietary information. However, subject to applicable laws and regulations, audit documentation and appropriate individuals will be made available upon request and in a timely manner to Minnesota Office of the State Auditor, or its designee, a federal agency providing direct or indirect funding, or the U.S. Government Accountability Office for purposes of a quality review of the audit, to resolve audit findings, or to carry out oversight responsibilities. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of CLA personnel. Furthermore, upon request, we may provide copies or electronic versions of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

The audit documentation for this engagement will be retained for a minimum of seven years after the report release date or for any additional period requested by the Minnesota Office of the State Auditor. If we are aware that a federal or state awarding agency, pass-through entity, or auditee is contesting an audit finding, we will contact the party(ies) contesting the audit finding for guidance prior to destroying the audit documentation.

Professional standards require us to be independent with respect to you in the performance of these services. Any discussion that you have with our personnel regarding potential employment with you could impair our independence with respect to this engagement. Therefore, we request that you inform us prior to any such discussions so that we can implement appropriate safeguards to maintain our independence and objectivity. Further, any employment offers to any staff members working on this engagement without our prior knowledge may require substantial additional procedures to ensure our independence. You will be responsible for any additional costs incurred to perform these procedures.

Our audit engagement ends on delivery of our signed report. Any additional services that might be requested will be a separate, new engagement. The terms and conditions of that new engagement will be governed by a new, specific SOW for that service.

Government Auditing Standards require that we make our most recent external peer review report publicly available. The report is posted on our website at www.CLAconnect.com/Aboutus/.

Fees

Our professional fees will be billed based on the time involved and the degree of responsibility and skills required. We will also bill for a technology and client support fee of five percent (5%) of all professional fees billed. Based on our preliminary estimates, the total fees and expenses for the engagement should approximate \$65,468 (\$62,350 for audit services, preparation of the financial statements, and entering the information in the Data Collection Form SF-SAC and \$3,118 for the technology and client support fee). These fees involve auditing two major programs for single audit purposes, each additional program will be billed at \$4,500-\$6,500 (plus the 5% technology and client support fee) depending on the complexity of the program. There will also be an additional base charge of \$1,500 to audit the implementation of GASB 87 plus \$250 per hour for any additional implementation time and assistance for GASB 87 (plus the 5% technology and client support fee). This estimate is based on anticipated cooperation from your personnel

and their assistance with locating requested documents and preparing requested schedules. If the requested items are not available on the dates required or are not accurate, the fees and expenses will likely be higher. Our invoices, including applicable state and local taxes, will be rendered each month as work progresses and are payable on presentation.

Unexpected circumstances

We will advise you if unexpected circumstances require significant additional procedures resulting in a substantial increase in the fee estimate.

Changes in accounting and audit standards

Standard setters and regulators continue to evaluate and modify standards. Such changes may result in new or revised financial reporting and disclosure requirements or expand the nature, timing, and scope of the activities we are required to perform. To the extent that the amount of time required to provide the services described in the SOW increases due to such changes, our fee may need to be adjusted. We will discuss such circumstances with you prior to performing the additional work.

Agreement

We appreciate the opportunity to provide to you the services described in this SOW under the MSA and believe this SOW accurately summarizes the significant terms of our audit engagement. This SOW and the MSA constitute the entire agreement regarding these services and supersedes all prior agreements (whether oral or written), understandings, negotiations, and discussions between you and CLA related to audit services. If you have any questions, please let us know. Please sign, date, and return this SOW to us to indicate your acknowledgment and understanding of, and agreement with, the arrangements for our audit of your financial statements including the terms of our engagement and the parties' respective responsibilities.

Sincerely,

CliftonLarsonAllen LLP

Response:

This letter correctly sets forth the understanding of Aitkin County.

CLA		Client
ORG:		org: Aitkin County
NAME:	Kristen A. Houle	NAME:
TITLE:	Signing Director	TITLE:
SIGN:	Kristen A Houle	SIGN:
DATE:	11/11/2022	DATE:
		ORG: Aitkin County
		NAME:
		TITLE:
		SIGN:
		DATE:



Master Services Agreement

Aitkin County 307 2nd Street NW, Room 121 Aitkin, MN 56431 MSA Date: November 11, 2022

This master service agreement ("MSA") documents the terms, objectives, and the nature and limitations of the services CliftonLarsonAllen LLP ("CLA," "we," "us," and "our") will provide for Aitkin County ("you," or "your"). The terms of this MSA will apply to the initial and each subsequent statement of work ("SOW"), unless the MSA is changed in a communication that you and CLA both sign or is terminated as permitted herein.

1. Scope of Professional Services

CLA will provide services as described in one or more SOW that will reference this MSA. The SOW will describe the scope of professional services; the nature, limitations, and responsibilities related to the specific services CLA will provide; and the fees for such services.

If modifications or changes are required during CLA's performance of requested services, or if you request that we perform any additional services, we will provide you with a separate SOW for your signature. Such SOW will advise you of the additional fee and time required for such services to facilitate a clear understanding of the services.

Our services cannot be relied upon to disclose all errors, fraud, or noncompliance with laws and regulations. Except as described in the scope of professional services section of this MSA or any applicable SOW, we have no responsibility to identify and communicate deficiencies in your internal controls as part of any services.

2. Management responsibilities

You acknowledge and understand that our role is to provide the services identified in an SOW and that management, and any other parties engaging CLA, have responsibilities that are fundamental to our undertaking to perform the identified services.

3. Fees and terms

See the applicable SOW for the fees for the services.

Work may be suspended if your account becomes 90 days or more overdue and will not be resumed

until your account is paid in full. If we elect to terminate our services for nonpayment, our engagements will be deemed to have been completed even if we have not completed the services. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures through the date of termination.

Payments may be made utilizing checks, Bill.com, your online banking platform, CLA's electronic payment platform, or any other client initiated payment method approved by CLA. CLA's electronic online bill pay platform claconnect.com/billpay accepts credit card and Automated Clearing House (ACH) payments. Instructions for you to make direct bank to bank wire transfers or ACH payments will be provided upon request.

4. Other Fees

You also agree to compensate us for any time and expenses, including time and expenses of legal counsel, we may incur in responding to discovery requests or participating as a witness or otherwise in any legal, regulatory, or other proceedings that we are asked to respond to on your behalf.

5. Finance charges and collection expenses

You agree that if any statement is not paid within 30 days from its billing date, the unpaid balance shall accrue interest at the monthly rate of one and one-quarter percent (1.25%), which is an annual percentage rate of 15%. In the event that any collection action is required to collect unpaid balances due us, reasonable attorney fees and expenses shall be recoverable.

6. Dispute Resolution

Any disagreement, controversy, or claim ("Dispute") that may arise out of any aspect of our services or relationship with you shall be submitted to non-binding mediation by written notice ("Mediation Notice") to the other party. In mediation, we will work with you to resolve any differences voluntarily with the aid of an impartial mediator.

The mediation will be conducted as specified by the mediator and agreed upon by the parties (i.e., you and CLA). The parties agree to discuss their differences in good faith and to attempt, with the assistance of the mediator, to reach an amicable resolution of the Dispute.

Each party will bear its own costs in the mediation. The fees and expenses of the mediator will be shared equally by the parties.

7. Limitation of remedies

These limitation of remedies provisions are not applicable for any audit or examination services provided to you.

Our role is strictly limited to the services described in an SOW, and we offer no assurance as to the results or ultimate outcomes of any services or of any decisions that you may make based on our communications with you. You agree that it is appropriate to limit the liability of CLA, its partners, principals, directors, officers, employees, and agents (each a "CLA party").

You further agree that you will not hold CLA or any other CLA party liable for any claim, cost, or

damage, whether based on warranty, tort, contract, or other law, arising from or related to this MSA, the services provided under an SOW, the work product, or for any plans, actions, or results of an SOW, except to the extent authorized by this MSA. In no event shall any CLA party be liable to you for any indirect, special, incidental, consequential, punitive, or exemplary damages, or for loss of profits or loss of goodwill, costs, or attorney fees.

The exclusive remedy available to you shall be the right to pursue claims for actual damages that are directly caused by acts or omissions that are breaches by a CLA party of our duties owed under this MSA and the specific SOW thereunder, but any recovery on any such claims shall not exceed the fees actually paid by you to CLA pursuant to the SOW that gives rise to the claim.

8. Governing Laws, Jurisdiction, and Venue

The MSA is made under and shall be governed by the laws of the state of Minnesota, without giving effect to choice of law principles. This includes dispute resolution and limitation of remedies.

9. Time limitations

The nature of our services makes it difficult, with the passage of time, to gather and present evidence that fully and fairly establishes the facts underlying any dispute that may arise between you and any CLA party. The parties (you and CLA) agree that, notwithstanding any statute or law of limitations that might otherwise apply to a dispute, including one arising out of this MSA or the services performed under an SOW, for breach of contract or fiduciary duty, tort, fraud, misrepresentation or any other cause of action or remedy, any action or legal proceeding by you against any CLA party must be commenced as provided below, or you shall be forever barred from commencing a lawsuit or obtaining any legal or equitable relief or recovery. An action to recover on a dispute shall be commenced within these periods ("Limitation Period"), which vary based on the services provided, and may be modified as described in the following paragraph:

Service	Time after the date we deliver the services or work product*
Audit, review, examination, agreed-upon procedures, compilation, and preparation services other than those related to prospective financial information	24 months
All Other Services	12 months

^{*} pursuant to the SOW on which the dispute is based

If the MSA is terminated or your ongoing relationship with CLA is terminated, then the applicable Limitation Period is the lesser of the above periods or 12 months after termination of MSA or your ongoing relationship with CLA. The applicable Limitation Period applies and begins to run even if you have not suffered any damage or loss, or have not become aware of the existence or possible existence of a dispute.

10. Confidentiality

Except as permitted by the "Consent" section of this MSA, CLA will not disclose any of your confidential, proprietary, or privileged information to any person or party, unless you authorize us to do so, it is published or released by you, it becomes publicly known or available other than through disclosure by us, or disclosure is required by law, regulation or professional standard. This confidentiality provision does not prohibit us from disclosing your information to one or more of our affiliated companies in order to provide services that you have requested from us or from any such affiliated company. Any such affiliated company shall be subject to the same restrictions on the use and disclosure of your information as apply to us. You also consent to our disclosure of information regarding the nature of services we provide to you to another independent network member of CLA Global, for the limited purpose of complying with professional obligations regarding independence and conflicts of interest.

The Internal Revenue Code contains a limited privilege for confidentiality of tax advice between you and our firm. In addition, the laws of some states likewise recognize a confidentiality privilege for some accountant-client communications. You understand that CLA makes no representation, warranty or promise, and offers no opinion with respect to the applicability of any confidentiality privilege to any information supplied or communications you have with us, and, to the extent that we follow instructions from you to withhold such information or communications in the face of a request from a third party (including a subpoena, summons or discovery demand in litigation), you agree to hold CLA harmless should the privilege be determined not to apply to particular information or communications.

The workpapers and files supporting the services we perform are the sole and exclusive property of CLA and constitute confidential and proprietary information. We do not provide access to our workpapers and files to you or anyone else in the normal course of business. Unless required by law or regulation to the contrary, we retain our workpapers and files in accordance with our record retention policy that typically provides for a retention period of seven years. After this period expires, our workpapers and files will be destroyed. Furthermore, physical deterioration or catastrophic events may shorten the time our records are available. The workpapers and files of our firm are not a substitute for your records.

Pursuant to authority given by law, regulation or professional standards we may be requested to make certain workpapers and files available to a regulator for its regulatory oversight purposes. We will notify you of any such request, if permitted by law. Access to the requested workpapers and files will be provided to the regulator under the supervision of CLA personnel and at a location designated by our firm. Furthermore, upon request, we may provide copies of selected workpapers and files to such regulator. The regulator may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

11. Other provisions

You agree that CLA will not be assuming any fiduciary responsibility on your behalf during the course of this MSA, except as may be assumed in an SOW.

CLA may, at times, utilize external web applications to receive and process information from our

clients; however, any sensitive data, including protected health information and personally identifiable information, must be redacted by you to the maximum extent possible prior to uploading the document or file. In the event that you are unable to remove or obscure all sensitive data, please contact us to discuss other potential options for transmitting the document or file.

CLA and certain owners of CLA are licensed by the California State Board of Accountancy. However, CLA has owners not licensed by the California State Board of Accountancy who may provide services under this MSA. If you have any questions regarding licensure of the personnel performing services under this MSA, please do not hesitate to contact us.

During the course of the engagement, there may be communication via fax or email. You are responsible to ensure that communications received by you or your personnel are secured and not shared with unauthorized individuals.

12. HIPAA Business Associate Agreement

To protect the privacy and provide for the security of any protected health information, as such is defined by the Health Insurance Portability and Accountability Act of 1996, as amended from time to time, and the regulations and policy guidances thereunder (HIPAA), we acknowledge that Aitkin County and CLA have entered into a HIPAA Business Associate Agreement (BAA) dated January 10, 2017.

13. Consent to use financial information

We regularly aggregate anonymized client data and perform a variety of analyses using that aggregated data. Some of these analyses are published to clients or released publicly. However, we are always careful to preserve the confidentiality of the separate information that we obtain from each client, as required by the AICPA Code of Professional Conduct and various laws. Your acceptance of this MSA will serve as your consent to our use of Aitkin County anonymized data in performing and reporting on these cost comparison, performance indicator and/or benchmarking analyses.

Unless authorized by law or the client consents, we cannot use a client's tax return information for purposes other than the preparation and filing of the client's tax return. By signing and dating this MSA, you authorize CLA to use any and all information furnished to CLA for or in connection with the preparation of the tax returns under this MSA, for a period of up to six (6) years from the date of this MSA, in connection with CLA's preparation of the types of reports described in the foregoing paragraph.

14. Consent to send you publications and other materials

For your convenience, CLA produces a variety of publications, hard copy and electronic, to keep you informed about pertinent business and personal financial issues. This includes published articles, invitations to upcoming seminars, webinars and webcasts, newsletters, surveys, and press releases. To determine whether these materials may be of interest to you, CLA will need to use your tax return information. Such tax information includes your name and address as well as the business and financial information you provided to us.

By signing and dating this MSA, you authorize CLA to use the information that you provide to CLA during the preparation of your tax returns to determine whether to offer you relevant materials. Your consent is valid until further notice.

15. Subcontractors

CLA may, at times, use subcontractors to perform services under this MSA, and they may have access to your information and records. Any such subcontractors will be subject to the same restrictions on the use of such information and records as apply to CLA under this MSA.

16. Technology

CLA may, at times, use third-party software applications to perform services under this MSA. You acknowledge the software vendor may have access to your data.

17. Termination of MSA

This MSA shall continue for five years from November 11, 2022, unless terminated earlier by giving appropriate notice. Either party may terminate this MSA at any time by giving 30 days written notice to the other party.

Upon termination of the MSA, the provisions of this MSA shall continue to apply to all services rendered prior to termination.

18. Agreement

We appreciate the opportunity to be of service to you and believe this MSA accurately summarizes the significant terms of our relationship. This MSA, along with the applicable addendum(s) and SOW(s), constitute the entire agreement regarding services to be performed and supersedes all prior agreements (whether oral or written), understandings, negotiations, and discussions between you and CLA. If you have any questions, please let us know. If you agree with the terms of our relationship as described in this MSA, please sign, date, and return.

CliftonLarsonAllen LLP

Kristen A. Houle, CPA Signing Director 320-203-5539 kristen.houle@claconnect.com

Response:

This MSA correctly sets forth the understanding of Aitkin County

CLA		Client
ORG:		org: Aitkin County
NAME:	Kristen A. Houle	NAME:
TITLE:	Signing Director	TITLE:
SIGN:	Kristen A Houle	SIGN:
DATE:	11/11/2022	DATE:
		org: Aitkin County
		NAME:
		TITLE:
		SIGN:
		DATE:



Board of County Commissioners Agenda Request



Requested Meeting Date: November 22, 2022

Title of Item: 2023 Newspaper Bid Specifications

REGULAR AGENDA	Action Requested:	Direction Requested
CONSENT AGENDA	✓ Approve/Deny Motion	Discussion Item
INFORMATION ONLY	Adopt Resolution (attach dra *provide	aft) Hold Public Hearing* e copy of hearing notice that was published
Submitted by: Jessica Seibert		Department: Administration
Presenter (Name and Title):		Estimated Time Needed:
Summary of Issue:		
Attached is a draft of the 2023 Newspa Independent Age, Voyageur Press, an		al, this will be mailed out to Aitkin
Alternatives, Options, Effects or	n Others/Comments:	
Recommended Action/Motion: Approve 2023 Newspaper Bid Specific	cations.	
Financial Impact: Is there a cost associated with this What is the total cost, with tax and Is this budgeted? Yes	· —	No

CALENDAR YEAR 2023 BID SPECIFICATIONS NEWSPAPER PUBLICATION OF AITKIN COUNTY LEGAL NOTICES

Aitkin County is requesting bids for newspaper publication of the following County legal notices for 2023:

- 1. Official Proceedings (in Summary form)
- 2. Legal Notices
- 3. Delinquent Real Estate Notice and List
- 4. First Publication of the Financial Statement
- 5. Second Publication of the Financial Statement

This bid package contains the following:

- I. General Information for Bidders (page 2)
- II. Specific Requirements for Bidders (pages 2-3)
- III. Bid Award Criteria (page 3)
- IV. Bid Form (page 4)

County Contact Person: Jessica Seibert, Aitkin County Administrator

(218) 927-3276

CALENDAR YEAR 2023 BID SPECIFICATIONS NEWSPAPER PUBLICATION OF AITKIN COUNTY LEGAL NOTICES

I. GENERAL INFORMATION FOR BIDDERS

- A. Sealed bids for newspaper publication of Aitkin County legal notices for 2022 will be received in the **Aitkin County Administrator's Office**, 307 2nd Street NW Room 310, Aitkin, MN 56431, until **Noon on Thursday, December 15, 2022** at which time they will be opened, read and tabulated.
- B. All bids must be typewritten or written legibly in ink, sealed in an envelope, and bear the inscription "2023 NEWSPAPER PUBLISHING BID" together with the name and address of the publisher.
- C. Bidders must use the attached form when submitting a bid.
- D. Bids received after the time set for bid opening will be returned to the bidder unopened.
- E. Bids will be considered at the Aitkin County Board of Commissioners meeting on **January 3, 2023**.
- F. Copies of all bids received will be available for inspection in the Aitkin County Administrator's Office at Noon on Thursday, December 15, 2022.
- G. Aitkin County will send written notice of bid awards to the successful publishers.
- H. Aitkin County reserves the right to waive any irregularities in the bids, to reject any or all bids and to make any award which it considers to be in the best interest of the County.
- I. Aitkin County does not discriminate on the basis of disability, race, color, national origin, sex, religion, age or handicapped status in employment or the provision of services. If you need assistance due to disability or language barrier please call (218) 927-3276.

II. SPECIFIC REQUIREMENTS FOR BIDDERS

- A. Separate bids are required for each type of publication notice, no joint bids will be accepted.
- B. Bids must be submitted using the attached form.
- C. Bidders are required to provide circulation statistics by zip code.
- D. Types of legal notices to which bids are requested.
 - (1) **PUBLICATION OF OFFICIAL PROCEEDINGS IN SUMMARY FORM:** (Minnesota Statute 375.12 refers.) The County will provide all official proceedings in digital format and may specify font, point size and leading.
 - (2) **PUBLICATION OF LEGAL NOTICES & MISC. ADVERTISEMENTS:** (Minnesota Statute 331A.01 subd. 7 and 331A.05 .07 refer.) The County will provide all legal notices and miscellaneous advertisements in digital format and may specify font, point size and leading.

CALENDAR YEAR 2023 BID SPECIFICATIONS NEWSPAPER PUBLICATION OF AITKIN COUNTY LEGAL NOTICES

- (3) **PUBLICATION OF DELINQUENT REAL ESTATE NOTICE AND LIST:** Minnesota Statute 279.08 refers.) The list of real estate taxes remaining delinquent on the first Monday of January 2020 shall be published once in each of two non-consecutive weeks. The county will provide the Real Estate List in digital format and may specify font, point size and leading.
- (4) **FIRST PUBLICATION OF FINANCIAL STATEMENT:** (Minnesota Statute 375.17 refers.) State Statute requires the County Financial Statement to be published twice, with the second publication to be done in a newspaper located in a different municipality. The Financial Statement must be arranged in the newspaper so as to be pulled out or inserted as a unit, and first publisher may be asked to provide copies of Financial Statement **insert** for second publication. The County will provide the Financial Statement in camera ready format.
- (5) **SECOND PUBLICATION OF FINANCIAL STATEMENT:** (Minnesota Statute 375.17 refers.) State Statute requires the County Financial Statement to be published twice, with the second publication of the financial statement to be done in one other newspaper, if one of general circulation is located in a different municipality in the county than the official newspaper. Per MN statute the county board shall call for separate bids for each publication. The Financial Statement must be arranged in the newspaper so as to be pulled out or inserted as a unit. To be considered for award of the bid for second publication of the financial statement, bidders must include a specific bid for the second publication of the Financial Statement. The County will provide the Financial Statement in camera ready format.

III. BID AWARD CRITERIA

- A. A successful bidder will be designated by the County Board as the "Official County Newspaper" for calendar year 2023 and will be required to publish all legal notices and advertisements as required by law to be published in the official newspaper.
- B. A successful bidder will be designated by the County Board for publication of the "Second Publication of the County Financial Statement." That bidder must be other than the bidder designated as the official county newspaper and located in a municipality other than the official newspaper per MN Statue 375.17 subd. 3.
- C. Bidder must certify by signature they meet the requirements of a qualified newspaper pursuant to MN Statute Chapter 331A.
- D. In determining the lowest bidder, the cost per media impression provided to the public within the boundaries of Aitkin County will be considered.
- E. The board may reject any offer if, in its judgment, the public interests require, and may then designate a newspaper without regard to any rejected offer.
- F. Bidder's adherence to all bid submission instructions and requirements. Failure to properly fill out the bid form may result in that bid being disqualified. Failure to enter a bid amount for each of item designated as "Official Newspaper" (Items 1-4) on the bid form may result in rejection of the entire bid with respect to designation the official newspaper.

AITKIN COUNTY - BID FORM PRINTING & PUBLISHING SERVICES CALENDAR YEAR 2023

Refer to Page 2 for general printing and publication requirements and Pages 2-3 for details on each specific type of publication.

(1)	PUBLICATION OF (\$ per of		EDINGS (Offic	ial Newspaper)	
(2)	PUBLICATION OF L \$ per c		& MISC. ADVE	RTISEMENTS (Official Newspaper)
(3)	PUBLICATION OF Deciding per control per co		AL ESTATE NO	OTICE & LIST (C	Official Newspaper)
(4)	FIRST PUBLICATION OF FINANCIAL STATEMENT (Official Newspaper) \$ per column inch			aper)	
5)	\$ per of		IAL STATEMEI	NT (Official New	spaper)
Size i	n inches of newspape	r single page she	et =	_by	
Maxin	num number of colum	ns per page in leg	gal notice sectio	n =	_
News	paper circulation with	n the boundaries	of Aitkin County	/ =	_
Week	ly newspaper circulat	on by zip code wi	thin the bounda	ries of Aitkin Co	unty =
56431	J 56469	55748	55760	55787	56350
Subsc	cription cost per indivi	dual customer wit	hin Aitkin Count	ty for 1 year = _	
	se Print Clearly) of Bidding Newspaper:				
Officia	I Address:				
Printed	d Name of Submitter			Title	
Phone	:				
	ndersigned certifies that ant to Minnesota State S		ed above meets	the requirements	for a qualified newspaper
	Signature in Ink of Sul	omitter		Date	



Board of County Commissioners Agenda Request

2Z Agenda Item #

Requested Meeting Date: November 22, 2022

Title of Item: Adopt Multi - Hazard Mitigation Plan

✓ REGULAR AGENDA	Action Requested:		Direction Requested		
CONSENT AGENDA	Approve/Deny Motion		Discussion Item		
INFORMATION ONLY	Adopt Resolution (attach dra *provide*		Hold Public Hearing* earing notice that was published		
Submitted by: Bobbie Danielson		Departm HR	ent:		
Presenter (Name and Title):			Estimated Time Needed: 30 min		
Summary of Issue:					
The Multi-Hazard Mitigation Plan (MH development of a local government plan programs. For communities to be eligi	an is required to maintain eligibility for	federal haz	ard mitigation grant funding		
Aitkin County is vulnerable to a variety Hazards such as tornadoes, flooding, inflicting vast economic loss and person	wildfires, blizzards, straight-line winds				
Alternatives, Options, Effects on Others/Comments:					
Recommended Action/Motion: Adopt Resolution to Adopt Multi-Hazard Mitigation Plan					
Financial Impact: Is there a cost associated with this	request? Yes		Vo		
What is the total cost, with tax and	ship <u>ping</u> ? \$				
Is this budgeted?	No Please Exp	iain:			

CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA

ADOPTED

November 22, 2022

By Commissioner: xxx 20221122-xxx

County All Hazard Mitigation Plan

WHEREAS, Aitkin County ha participated in the hazard mitigation planning process as established under the Disaster Mitigation Act of 2000, and

WHEREAS, the Act establishes a framework for the development of a county Hazard Mitigation Plan; and

WHEREAS, the Act as part of the planning process requires public involvement and local coordination among neighboring local units of government and businesses; and

WHEREAS, the Aitkin County Plan includes a risk assessment including past hazards, hazards that threaten the County, an estimate of structures at risk, a general description of land uses and development trends; and

WHEREAS, the Aitkin County Plan includes a mitigation strategy including goals and objectives and an action plan identifying specific mitigation projects and costs; and

WHEREAS, the Aitkin County Plan includes a maintenance or implementation process including plan updates, integration of the plan into other planning documents and how Aitkin County will maintain public participation and coordination; and

WHEREAS; the Plan has been shared with the Minnesota Division of Homeland Security and Emergency Management and the Federal Emergency Management Agency for review and comment; and

WHEREAS, the Aitkin County All-Hazard Mitigation Plan will make the county and participating jurisdictions eligible to receive FEMA hazard mitigation assistance grants; and

WHEREAS, this multi-jurisdictional plan and cities that participated in the planning process may choose to adopt to County Plan.

NOW THEREFORE BE IT RESOLVED, that Aitkin County supports the hazard mitigation planning effort and wishes to adopt the Aitkin County All-Hazard Mitigation Plan.

Commissioner xxx moved the adoption of the resolution and it was declared adopted upon the following vote

FIVE MEMBERS PRESENT

All Members Voting Yes

STATE OF MINNESOTA) COUNTY OF AITKIN)

I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the 22nd day of November 2022, and that the same is a true and correct copy of the whole thereof.

Witness my hand and seal this 22nd day of November 2022

J. Mark Wedel – County Board Chair	Jessica Seibert – County Administrator

AITKIN COUNTY MINNESOTA







2021

Multi-Hazard Mitigation Plan



U-SPATIAL
UNIVERSITY OF MINNESOTA DULUTH
Priven to Discover

AITKIN COUNTY MINNESOTA

MULTI-HAZARD MITIGATION PLAN

Dan Guida Sheriff / Emergency Management Director Aitkin County Sheriff's Office 218 1st Street NW Aitkin, MN 56431

218-927-7417

Prepared By:

U-Spatial Research Computing | Office of the Vice President for Research 1208 Kirby Drive University of Minnesota Duluth Duluth, MN 55812

218-726-7438

Contents

Section	1 1 – Introduction 1	
1.1	Introduction	1
1.1.	.1 Scope	2
1.1.	2 Hazard Mitigation Definition	2
1.2	State Administration of Mitigation Grants	3
Section	n 2 – Public Planning Process4	
2.1	Planning Team Information	4
2.2	Review of Existing Plans, Capabilities & Vulnerabilities	5
2.3	Planning Process Timeline and Steps	6
2.3	.1 Aitkin County Stakeholder Coordination	6
2.3	.2 Overview of Jurisdictional Participation	7
Section	1 3 – Aitkin County Profile9	
3.1	General County Description	9
3.2	Environmental and Geologic Characteristics	9
3.3	Hydrography	10
3.3	.1 Lakes	12
3.3	2 Rivers	12
3.3	.3 Wetlands	12
3.3	.4 Groundwater	13
3.4	Climate	15
3.4	.1 Climate Change Adaptation	15
3.4	.2 Climate Data Trends	16
3.5	Demographics	18
3.6	Economy	22
3.7	Critical Infrastructure	23
3.7	7.1 Essential facilities	23
3.7	7.2 Infrastructure Systems	25
3.7	3.3 High Potential Loss Structures	26
3.7	7.4 Significant County Assets	28
3.8	Land Use and Ownership	28
Section	1 4 – Risk Assessment and Vulnerability Analysis	
4.1	Hazard Identification and Prioritization	32
4.1		
4.1	` ,	
4.1	.3 FEMA- and Minnesota-Declared Disasters and Assistance	34
4.2 J	urisdictional Change in Risk or Vulnerability Assessment	37

4.2.1	Jurisdictional Responses	37
4.2.2	Future Development	40
4.3 Sha	red Vulnerabilities for all Hazards	41
4.3.1	Population Vulnerability	42
4.3.2	Structure vulnerability	44
4.3.3	Electric Utilities and Outages	45
Section 5	- Hazard Profiles	18
5.1 Floo	ding	48
5.1.1	History of Flooding.	49
5.1.2	Probability of Occurrence	50
5.1.3	Climate Change Projections	52
5.1.4	Vulnerability	52
5.1.5	Program Gaps and Deficiencies	57
5.2 V	Vildfires	57
5.2.1	History of Wildfires	58
5.2.2	Probability of Occurrence	59
5.2.3	Climate Change Projections	59
5.2.4	Vulnerability	61
5.2.5	Program Gaps and Deficiencies	63
5.3 V	Vindstorms	63
5.3.1	History	64
5.3.2	Probability of Occurrence	69
5.3.3	Climate Change Projections	69
5.3.4	Vulnerability	69
5.3.5	Program Gaps and Deficiencies	70
5.4 T	Ornadoes	70
5.4.1	History	71
5.4.2	Probability of Occurrence	72
5.4.3	Climate Change Projections	74
5.4.4	Vulnerability	74
5.4.5	Program Gaps and Deficiencies	
5.5 V	Vinter Storms	75
5.5.1	History	
5.5.2	Probability of Occurrence	
5.5.3	Climate Change Projections	
5.5.4	Vulnerability	
5.5.5	Program Gaps and Deficiencies	
	Dam & Levee Failure	
_	History	

5.6	5.2 Probability of Occurrence	82
5.6	5.3 Climate Change Projections	83
5.6	5.4 Vulnerability	83
5.6	5.5 Program Gaps and Deficiencies	87
Section	n 6 – Mitigation Strategy	88
6.1	Community Capability Assessments	88
	.1 National Flood Insurance Program (NFIP)	
6.1	.2 Plans and Ordinances	90
6.1	.3 Plans and Programs in Place to Address Natural Hazards	90
6.2	Mitigation Goals	94
6.3	Mitigation Action and Project Strategies	95
Section	n 7 – Plan Maintenance	107
7.1	Monitoring, Evaluation, and Updating the Plan	107
7.2	Implementation	108
7.3	Continued Public Involvement	109
APPEN	IDICES	
Appen	dix A – References	
Appen	dix B – Adopting Resolutions	
Appen	dix C – Local Mitigation Survey Report	
Appen	dix D – Plans & Programs in Place	
Appen	dix E – Past Mitigation Action Review Status Report	
Appen	dix F – Planning Team Meetings	
Appen	dix G – Public Outreach & Engagement Documentation	
Appen	dix H – Minnesota Department of Health Climate & Health Report	
Appen	dix I – Critical Infrastructure	
Appen	dix J – Mitigation Actions by Jurisdiction	

Section 1 – Introduction

1.1 Introduction

Hazard mitigation is defined as any sustained action to reduce or eliminate long-term risk to human life and property from hazard events. The Federal Emergency Management Agency (FEMA) has made reducing hazards one of its primary goals, and a primary mechanism in achieving this goal is both the hazard mitigation planning process and the subsequent implementation of resulting projects, measures, and policies (FEMA, 2015).

From 1980 to 2020, damages due to natural disasters in the U.S. exceeded \$1.875 trillion. 2017 was the costliest year on record with \$306 billion in damage, and while the costliest disasters may occur in coastal states, in 2020, wildfires, hailstorms, drought, and tornadoes caused a record amount of billion-dollar disasters across the nation (Smith, 2020). Hazard mitigation planning is an effective process to prepare communities and lessen the impact of loss of life and property from future disasters. Although mitigation efforts will not eliminate all disasters, government at all levels should strive to be as prepared as possible for a disaster for the wellbeing of its citizens.

The Multi-Hazard Mitigation Plan (MHMP) is a requirement of the Federal Disaster Mitigation Act of 2000. The development of a local government plan is required to maintain eligibility for federal hazard mitigation grant funding programs. For communities to be eligible for future mitigation funds, they must adopt an MHMP.

Researchers at the National Institute of Building Sciences looked at the results of 23 years of federally funded mitigation grants provided by FEMA, the U.S. Economic Development Administration (EDA), and the U.S. Department of Housing and Urban Development (HUD). Their findings revealed that for every \$1 spent on hazard mitigation funding in the nation, \$6 is saved in future disaster costs (Multi-Hazard Mitigation Council, 2019).

Aitkin County is vulnerable to a variety of natural hazards that threaten the loss of life and property in the county. Hazards such as tornadoes, flooding, wildfires, blizzards, straight-line winds, and droughts have the potential for inflicting vast economic loss and personal hardship.

This MHMP represents the efforts of Aitkin County and its local governments to fulfill the responsibility of hazard mitigation planning. The intent of the plan is to limit the damages and losses caused by specific hazards.

1.1.1 SCOPE

U-Spatial, University of Minnesota, was contracted by MN Homeland Security and Emergency Management using FEMA Pre-Disaster Mitigation (PDM) grant funds to work with Aitkin County Emergency Management to facilitate an update to the 2015 Aitkin County MHMP. U-Spatial brings extensive geographic data analysis skills and hazard risk assessment expertise to the process. U-Spatial also employed the services of Hundrieser Consulting LLC for county and stakeholder outreach as well as mitigation action development related to this plan.

This MHMP evaluates and prioritizes the major natural hazards affecting Aitkin County as determined by frequency of event, economic impact, deaths, and injuries. Mitigation recommendations are based on input from state and local agencies, the public, and national best practices.

U-Spatial performed the hazard risk assessment for 1-percent annual chance floods (also known as 100-year floods) using the FEMA Hazus GIS tool. The Minnesota Homeland Security and Emergency Management (HSEM) office, which is a division of the Minnesota Department of Public Safety, has determined that Hazus should play a critical role in Minnesota's risk assessments.

This is a multi-jurisdictional plan that covers Aitkin County, including the cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack. The Aitkin County mitigation activities identified in this plan also incorporate the concerns and needs of townships, school districts, and other participating entities.

Members from each of these jurisdictions actively participated in the planning process by assisting with public outreach, attending planning team meetings, providing local information, identifying mitigation actions, and reviewing the plan document (see Appendix C). The information in these forms was used to help identify mitigation actions for local implementation (see also Section 2.2). Each jurisdiction will adopt the plan by resolution after the plan is approved by FEMA. County and local city resolutions will be added by Aitkin County after final approval by FEMA (see Appendix D).

Aitkin County has specified the following goals for this MHMP update:

- Include more recent data documenting the critical infrastructure and hazards faced by Aitkin County.
- Reformat and reorganize the plan to reflect definitions of hazards as expressed in the 2019 State of Minnesota Multi-Hazard Identification and Risk Assessment Plan.
- Reflect current hazard mitigation priorities in Aitkin County.

1.1.2 HAZARD MITIGATION DEFINITION

Hazard mitigation may be defined as any action taken to eliminate or reduce the long-term risk to human life and property from natural hazards. The benefits of hazard mitigation planning include the following:

- saving lives, protecting the health of the public, and reducing injuries
- preventing or reducing property damage

- reducing economic losses
- minimizing social dislocation and stress
- reducing agricultural losses
- maintaining critical facilities in functioning order
- protecting infrastructure from damage
- protecting mental health
- reducing legal liability of government and public officials

1.2 State Administration of Mitigation Grants

FEMA currently has three mitigation grant programs that are administered by the State of Minnesota: the Hazard Mitigation Grant Program (HMGP), the Building Resilient Infrastructure and Communities (BRIC) program, and the Flood Mitigation Assistance (FMA) program. The HMGP, BRIC, and FMA programs are administered through the state of Minnesota Department of Public Safety HSEM Division. All applicants must have or be covered under an approved Hazard Mitigation Plan. Eligible applicants include state and local governments, certain private non-profit organizations or institutions, and tribal communities.

Section 2 – Public Planning Process

2.1 **Planning Team Information**

The Aitkin County MHMP planning team is headed by the Aitkin County emergency manager, who is the primary point of contact. Members of the Aitkin County MHMP planning team include representatives from the public and governmental sectors. Table 1 identifies the planning team individuals and the organizations they represent.

Jurisdictional representatives were contacted throughout the HMP process to help facilitate local participation and provide feedback on the hazards of concern to their communities. This feedback was used to develop local mitigation actions that they would seek to implement upon plan adoption (see Section 6.3 and Appendix J).

Name	Agency/Organization	Participant Title
Daniel Guida	Aitkin County Sheriff's Office	County Sheriff/Emergency Management Director
Patrice Erickson	Aitkin County Sheriff's Office	Deputy Emergency Management Director
Karla White	Aitkin County Sheriff's Office	Deputy Emergency Management Director
Jessica Siebert	Aitkin County Administration	County Administrator
Stacey Durgin Smith	Aitkin County Health & Human Services	Public Health Emergency Preparedness Coordinator
Steve Hughes	Aitkin County SWCD	District Manager
Rich Courtemanche	Aitkin County Land Department	Land Commissioner
John Welle	Aitkin County Highway Department	County Engineer
Mike Dangers	Aitkin County Assessor's Office	County Assesor
Steve Hughes	Aitkin County Soil & Water Conservation District	District Manager
Bill Bratt	Aitkin County Board of Commissioners	Commissioner
Rosanne Beverly	City of Aitkin	City Administrator
Jen Thompson	City of Aitkin	City Clerk
David Cluff	Aitkin Public Utilities	Manager
Ronald Saxton	City of Hill City	Police Officer/Asst. Fire Chief
Lin Benson	City of Hill City	City Councilor
Tami Meyer	City of Hill City	City Clerk/Treasurer
Dake Olson	City of McGregor	Mayor
Maureen Mischler	City of Palisade	City Clerk-Treasurer
Kathy Haugse	City of Tamarack	City Clerk
Pauline Elling	Hill Lake Township	Clerk/Treasurer
Jerry Weiler	Lee Township	Emergency Coordinator/Clerk

Name	Agency/Organization	Participant Title
Tarina Shade	Lakeside Township	Clerk
Harold Harms	Seavey Township	Board Chairman
Lynn Mizner	Loan Township	Supervisor
Kevin Stromberg	Spenser Township	Chairman
Jane Jewett	Libby Township	Clerk
Rhonda Vedder	Riverwood Healthcare Center	Safety/EM Coordinator
Tina Hughly	Riverwood Healthcare Center	ED Manager
Dan Stifter	Aitkin Public Schools	Superintendent
Adam Johnson	Hill City School District	Principal
Brad Johnson	McGregor School District	Superintendent/Elementary Principal
Todd Sangren	MnDOT (Baxter)	Maintenance Superintendent
Glendon Nyberg	MN DNR Forestry	Assistant Area Supervisor
Jeff Jackson	MN DNR Forestry	NE MN Firewise Coordinator/Forester
Sandi Weller	MN DNR Savanna Portage State Park	Park Manager
Chad Emery	Cass County Sheriff's Office	Deputy Sheriff/Emergency Management Coordinator
Marlyn Halvorson	Carlton County Sheriff's Office	Emergency Management Director
John Linder	Itasca County Sheriff's Office	Emergency Management Coordinator
Monte Fronk	Mille Lacs Band of Ojibwe Emergency Management	Emergency Management Director
Julie Peterson	Mille Lacs County Emergency Management	Emergency Management Director

2.2 Review of Existing Plans, Capabilities & Vulnerabilities

Aitkin County and its local communities utilized a variety of planning documents to direct community development. These documents included a Comprehensive/Master Plan, Emergency Operations Plan, Transportation Plan, etc. (see Appendix D for a full listing of plans and programs in place in Aitkin County). The planning process also incorporated the existing natural hazard mitigation elements from previous planning efforts. In addition, the 2019 Minnesota All-Hazard Mitigation Plan was consulted.

In the development of the Aitkin County MHMP, U-Spatial consultants reviewed and incorporated a variety of planning documents that direct community development and influence land use decisions for the county and its jurisdictions. In addition, U-Spatial consultants worked closely with the Aitkin County Emergency Management Director and other key county staff and local city officials to collect feedback on local mitigation capabilities and vulnerabilities that either support or hinder the ability to mitigate against natural hazards at the county and local level. Following is a summary of the assessment tools used to gather information on local capabilities and vulnerabilities during the planning process:

Capabilities Assessment (hazard-specific): In this assessment, detailed information was collected from Aitkin County on current plans and programs in place (i.e., existing programs, plans, or policies) as well as program gaps or deficiencies that currently exist to mitigate against damages caused by each natural

hazard addressed in the plan. Section 5 identifies current gaps and deficiencies for mitigation and Section 6.1.3 describes the mitigation capabilities that are in place by Aitkin County to support mitigation.

Local Mitigation Surveys: As part of Aitkin County's 2021 MHMP update, participating jurisdictions and key county personnel were asked to fill out a Local Mitigation Survey (LMS) form. Questions in the LMS form addressed the following:

- Part A: Hazard Identification, Risk Assessment & Vulnerability Analysis
- Part B: Local Mitigation Capabilities Assessment
- Part C: Local Mitigation Projects
- Part D: Survey Participants

The purpose of the survey was to gather jurisdictionally specific information needed to support the update of the plan and to help inform development of local-level mitigation actions for the next five-year planning cycle (for the full Aitkin County LMS report, see Appendix C).

2.3 Planning Process Timeline and Steps

In order to update the 2015 Aitkin County MHMP, U-Spatial consultants worked in coordination with Aitkin County Emergency Management and members of the planning team. The updated plan includes new data documenting the types of hazards faced by Aitkin County residents and emergency planning officials as well as new thinking on how to address these hazards.

2.3.1 AITKIN COUNTY STAKEHOLDER COORDINATION

On May 5, 2020, U-Spatial hosted an online kickoff meeting that was attended by the Aitkin County Emergency Manager. The webinar included a project overview, U-Spatial's background, the roles and responsibilities of the Emergency Manager, the contents of the MHMP, the planning process, and the projected timeline of the project (see Appendix F for webinar slides).

On June 23, 2020, Aitkin County issued a news release inviting public feedback and participation for the Aitkin County MHMP update (for complete documentation, see Appendix G).

A planning team meeting took place on October 21, 2020, via Zoom video conference hosted by U-Spatial. Meeting participants included representatives from Aitkin County, city and township governments, neighboring jurisdictions, and other key stakeholders. The planning team was provided with an overview of the purpose, process, and timeline for the Aitkin County MHMP update, as well as the roles and responsibilities of planning team members. During the meeting, participants discussed the prioritization of natural hazards facing the county and local jurisdictions, provided feedback on plans and programs in place, and identified mitigation actions that would reduce future risk. Information gathered during this meeting was used to inform the development of mitigation strategies in the updated plan. See Appendix F for a full meeting summary.

On September 23, 2021, members of the MHMP planning team convened again via Zoom video conference with U-Spatial presenters. Together, they conducted a review of and discussed the updated

risk assessment for Aitkin County. Draft mitigation strategies were developed for Aitkin County and each city participating in the plan (see Appendix F).

In order to provide opportunity for public input, Aitkin County issued a second news release on October 25, 2021, inviting public review and feedback on the draft plan. The news release provided information on where to view the plan and submit comments. U-Spatial hosted a webpage to post the full draft of the Aitkin County MHMP, including excerpts of the Aitkin County Master Mitigation Action Chart, each jurisdictional mitigation action chart, and an electronic feedback form.

Table 2 documents Hazard Mitigation update meetings and public outreach. Appendix G provides documentation of the public outreach for feedback on the draft plan by Aitkin County and jurisdictions. The public feedback period for the draft plan was open from 10/25/21 to 11/7/21, for a total of 14 days.

At the close of the public outreach period, the U-Spatial consultants worked with the Aitkin County Emergency Manager and members of the planning team to incorporate feedback from the public into the Multi-Hazard Mitigation Plan.

For more information on the planning process, see Sections 6 and 7.

Table 2. Aitkin County Hazard Mitigation Update Meetings and Public Outreach

Event	Date	Appendix
Kickoff Webinar	5/5/20	Appendix F, Planning Team Meetings
News Release #1	6/23/20	Appendix G, Public Outreach & Engagement Documentation
Planning Team Meeting #1	10/21/20	Appendix F, Planning Team Meetings
Planning Team Meeting #2	9/23/21	Appendix F, Planning Team Meetings
News Release #2	10/25/21	Appendix G, Public Outreach & Engagement Documentation

2.3.2 OVERVIEW OF JURISDICTIONAL PARTICIPATION

Throughout the planning process, Aitkin County and the U-Spatial team worked to engage representatives from the county and each city in the update of the plan. Key activities for jurisdictions included assisting with public outreach, participating in planning team meetings, providing local-level information, reviewing and providing feedback to the plan update.

U-Spatial and Aitkin County actively used the following methods to engage jurisdictions in the MHMP plan update process:

• **Zoom Video Conferencing**: Planning team meetings were conducted via Zoom video conferencing hosted by U-Spatial. The use of virtual meetings was used to engage stakeholders remotely during COVID-19 pandemic restrictions. Virtual meetings proved to be a beneficial addition to the planning process, resulting in a high turnout from jurisdictional representatives and other stakeholders, as well as providing the ability for presenters to collect, respond to, and document feedback from participants through Zoom functions such as surveys, chat, and Q&A.

- **Email Correspondence**: Email was a primary tool used to communicate with representatives from Aitkin County, municipal governments, and other stakeholders. Emails were used to distribute news releases for public outreach, to invite participation in meetings and to share meeting summaries, as well as to request local-information and final review of the draft plan. Email proved to be an effective tool that resulted in increased jurisdictional participation and collection of locally specific information. Email was also used by the public to submit feedback to Aitkin County following news releases on the MHMP.
- **Phone Calls**: Phone calls were frequently used to conduct direct outreach or follow-up to jurisdictions to ensure participation or to collect information via one-on-one interviews. Phone calls proved to be an effective tool that resulted in increased jurisdictional participation and collection of quality information. Phone calls were especially useful in engaging very small communities that had limited staff or technological capabilities.

Cities participating in Aitkin County MHMP update varied by population and associated government resources to participate in the planning process (i.e., personnel, time, and technology). Rural communities with smaller populations (under 500) typically had part-time elected officials, limited to no city staff, and reduced City Hall hours in which to conduct business. Aitkin County and U-Spatial were sensitive to these local challenges and worked to help these local governments to participate using the methods that worked best to accommodate them, such as phone interviews to complete local mitigation survey forms (see Appendix C).

Table 3 provides an overview of the participation of each city that took part in the Aitkin County MHMP update planning process, with reference to the location of supporting documentation.

Table 3. Jurisdictional participation in planning process

	News	Planning	Local	Mitigation	Planning	News Release
Jurisdiction (Population)	Release	Team	Mitigation	Action	Team	#2 & Plan
	#1	Mtg. #1	Survey	Chart	Mtg. #2	Review
Aitkin County (15,697)	X	X	X	X	X	X
City of Aitkin (2169)	X	X	X	X	X	
City of Hill City (613)	X	X	X	X	X	
City of McGrath (96)	X		X	X		X
City of McGregor (170)	X	X	X	X	X	
City of Palisade (162)	X	X	X	X	X	
City of Tamarack (62)	X	X	X	X	X	
Neighboring Jurisdictions:						X
Cass County		X			X	X
Carlton County		X				
Mille Lacs Band of Ojibwe		X			X	
Kanabec County						
Mille Lacs County					X	
Crow Wing County						
Itasca County					X	

Section 3 – Aitkin County Profile

3.1 General County Description

Aitkin County, established in 1857, gets its name from fur trader William Alexander Aitken of the American Fur Company. Originally called Aiken County, the modern spelling has been used since 1872. The county is located in north-central Minnesota, approximately 100 miles north of the Minneapolis-St. Paul metropolitan area and 60 miles west of the Duluth-Superior region. It is bounded on the north by Itasca County on the west by Cass and Crow Wing counties, on the south by Mille Lacs and Kanabec Counties, and by St. Louis, Carlton, and Pine counties to the east. The county covers 1,995 square miles, of which 1,822 are land and 174 are water. Part of the Mille Lacs Indian Reservation is also located in the county.

There are six cities and 55 townships, (41 organized, 14 unorganized) in Aitkin County. The City of Aitkin is both the county seat and most populated city, with an estimated population of 2,274 in 2018. The other five cities in Aitkin County are McGrath, Hill City, Palisade, Tamarack, and McGregor. The county had an estimated total population of 15,902 in 2018.

Aitkin County's landscape consists primarily of rolling hills dotted with lakes, rivers, and streams. Much of the county is state forest land. Notable natural areas include Savanna Portage State Park, home to the historic Savanna Portage, and Grayling State Wildlife Management Area. The Mississippi River flows through the west-central Aitkin County, and Lake Mille Lacs in the southwestern corner is one of the largest lakes in Minnesota, covering over 132,000 acres.

Educataion and health services; trade, transportation, and utitilties; and leisure and hospitality are the largest industries within Aitkin County. The county is connected to the extensive state highway system, and it has three general aviation airports, one in Aitkin (Aitkin Municipal Airport-Steve Kurtz Field), one in McGregor (Isedor Iverson Field), and one in Hill City (Hill City-Quadna Mountain Airport).

3.2 Environmental and Geologic Characteristics

Aitkin County has a variety of surface landforms that are the result of past glacial activities. The glacial lakes of Upham and Aitkin, which once covered most of the area, influence the topography of the Mississippi River corridor. The landscape is flat and the streams meander through glacial material. The shrub swamp is a distinctive vegetative community with speckled alder, willows, bog birch, and pussy willow shrubs growing 10 to 15 feet tall. Ferns, tall asters, sedges, and wildflowers grow beneath these dense thickets. Agriculture has been a significant land use in the past and many parcels are held in large acreage.

The topography of Aitkin County is the result of glacial activity that occurred over 10,000 years ago. The county has land varying from flat to hilly. This varied topography is due to glacial deposition that formed moraines and left outwash sediments. The highest point in the county is Quadna Mountain, 2.5 miles southeast of Hill City. At one time, there were large lakes covering portions of the county. This glacial

activity is important to recognize because it created the landscape, soil types, and watersheds, and therefore affects the county's development patterns.

Aitkin County has a wide variety of soil types, all of which are acidic. Most of them have reddish brown subsoil and a foundation from glacial drift. Approximately 48% of the county consists of nearly level soils. Organic soils make up 50% of these soils, or encompass about 25% of the county.

Most of the terrain in Aitkin County is used for woodland recreation and wildlife habitat. Not much of the soil is used for farming due to short, cool growing seasons that limit the types of crops suitable for the area.

3.3 Hydrography

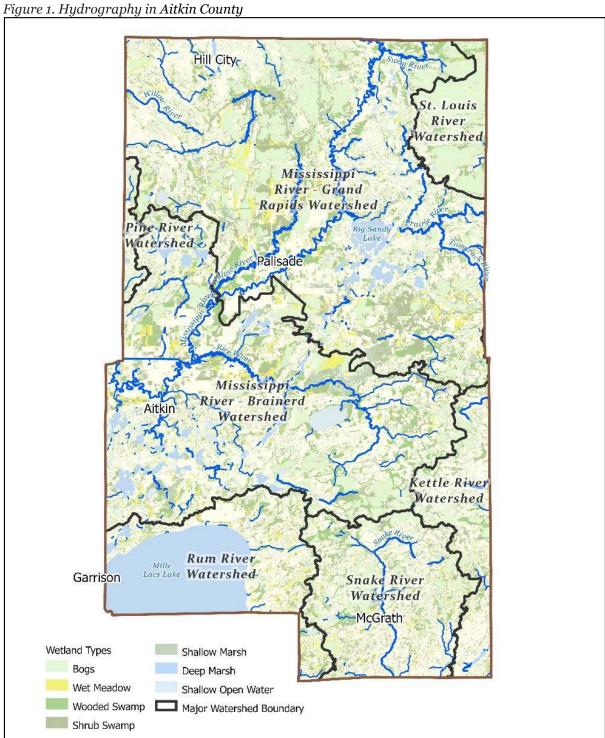
Water resources within Aitkin County are important to the community because they provide recreational and aesthetic value, as well as enhanced economic opportunity. Important water resources include surface and ground water from aquifers, watersheds, lakes, rivers, and wetlands, providing water for riparian habitats, fish, wildlife, households, livestock, recreation, and aesthetic and industrial uses. Aquifers are supplemented by an average precipitation of 28 inches annually in Aitkin County and flows into three major drainage basins, which are the Great Lakes Basin, the Upper Mississippi River Basin, and the St. Croix River Basin. The county contains 6 major watersheds, including the Mississippi River—Headwaters, Mississippi River—Brainerd, St. Louis River, Rum River, Kettle River, and Snake River watersheds.

The Mississippi River, flowing south into Aitkin County, enters a flat and forested plain, which makes up the bed of glacial Lake Aitkin. The river is deep and slow in this stretch, with many oxbows forming islands surrounded by slack water.

Aitkin County contains a number of Protected (i.e., Public) Waters, which are lakes, wetlands, and watercourses regulated by the Minnesota DNR. The inventory of the protected waters in the county includes 213 lakes, 120 watercourses (rivers and streams), and 95 wetlands (MN DNR, 2019a).

Waters across the State are continuously monitored for pollution and invasive species. The Minnesota Pollution Control Agency (MPCA) measures water pollutant levels. Waterbodies that do not meet water quality standards are designated as impaired and sent to the Environmental Protection Agency (EPA), along with pollutant-reduction goals to restore these waters (MPCA, 2017). The Minnesota Department of Natural Resources (MN DNR) is responsible for tracking and stopping the spread of aquatic invasive species. Waters with invasive species are labeled as infested.

The basic hydrography of Aitkin County is mapped in Figure 1.



SOURCE: (MN DNR, 2013, 2019C, 2021B)

3.3.1 LAKES

According to the Minnesota DNR, there are 443 lakes over 2 acres in size in the county, the largest of which is Mille Lacs, (64,895 of its 128,223 acres are in Aitkin County). These lakes cover 112,664 of the county's 1,276,800 acres (8.8%).

Impaired waters are an increasing problem as Aitkin County has many lakes, creeks and rivers that are on the Minnesota Pollution Control Agency Impaired Waters lists, including the Mississippi and Moose Rivers, Mille Lacs, Big Sandy Lake, and Minnewawa Lake (MPCA, 2020). Lakes in Aitkin County have been identified as impaired due to pollutants or stressors found in these waters; examples include E. coli, mercury in fish tissue, and excess levels of nutrients. Impaired waters do not meet the State's water quality standards and they affect growth and health of communities and economies. The Clean Water Act has a mandate requiring every state to address impairments (US EPA, 2015).

Lakes that are infested with an aquatic invasive species are also of concern (MN DNR, 2020d). The MN DNR documents six lakes in Aitkin County as infested with aquatic invasive species: Big Sandy Lake with flowering rush; French Lake with Eurasion water-milfoil; and Big Pine Lake, Farm Island Lake, Little Pine Lake, and Round Lake with zebra mussels.

3.3.2 RIVERS

Three major rivers flow through Aitkin County: the Mississippi River, Snake River, Willow River, Rice River, Sandy River, Swan River, and Prairie River. The Upper Mississippi River Drainage includes nearly two-thirds of Aitkin County. Its major tributaries are the Sandy, Willow, Rice and Prairie Rivers. (MN DNR, 2020d).

The MPCA classifies a number of rivers in Aitkin County as "impaired," including: Mississippi River, Moose River, Pine River, Ricer, Sandy River, Snake River, and Tamarack River.

3.3.3 WETLANDS

The term "wetland" is defined by the Minnesota Legislature as "...areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (Wetland Standards and Mitigation, 2016). Important benefits of wetlands include storage area for excess water during flooding; filtering of sediments and harmful nutrients before they enter lakes, rivers, and streams; and fish and wildlife habitat.

Wetlands mapped by the National Wetlands Inventory cover 545,063 acres (851 square miles) in Aitkin County. Wetlands are one of the most efficient natural water filters, as wetland plants and soils clean the water before it goes into groundwater or rivers. After being slowed by a wetland, water moves around plants allowing suspended sediments to drop out and settle on the wetland floor. Plant roots and microorganisms in the soil often absorb nutrients from fertilizer application, manure, leaking septic systems, and municipal sewage. Wetlands also serve as a storage area for excess water during times of flooding.

Wetlands in Aitkin County consist of 6 types, including wet meadow, shallow marsh, deep marsh, shrub swamp, wooded swamp and bogs (MN DNR, 2019d). The variety of wetland types are presented in the hydrography map in Figure 1.

Exotic plants such as Eurasian watermilfoil and purple loosestrife have invaded many wetlands in Minnesota. The Minnesota DNR has documented both of these invasive species within Aitkin County. These plants can take over entire native communities and can threaten native wetland ecosystems.

Although impairment is not as prevalent as in lakes and rivers, the MPCA has identified a number of impaired wetlands throughout Minnesota; fortunately, none of these wetlands are located in Aitkin County.

3.3.4 GROUNDWATER

Groundwater serves a variety of vital functions in Aitkin County. The primary water sources within Aitkin County are from sand plain shallow aquifers. Because thes aquifers are near the surface, they may be vulnerable to contamination. Septic tanks and nitrate contamination can be a problem, often due to seasonal and permanent lakeshore residences.

With such an abundance of groundwater available, it is important to examine how sensitive this natural resource is to pollution. Groundwater sensitivity to pollution is measured by flow rate and soil permeability. Figure 2 maps pollution sensitivity of near-surface materials based on the time it takes water to travel through three feet of soil and seven feet of surficial geology, to a depth of ten feet from the land surface (Adams, 2016). The total travel time is then categorized into five sensitivity classes, ranging from high (<=170 hours) to ultra-low (>8,000 hours). Areas with special geologic conditions, such as karsts, peatlands, bedrock at or near the surface, and disturbed lands (e.g., open pit mines) require individual consideration. Of these special condition areas, only karst areas have been assigned a sensitivity ranking ("very high") due to karst areas consistently showing very fast water infiltration rates. The remaining special condition areas are classified together as they cannot be assigned a sensitivity ranking using the same methodology (MN DNR, 2020c).

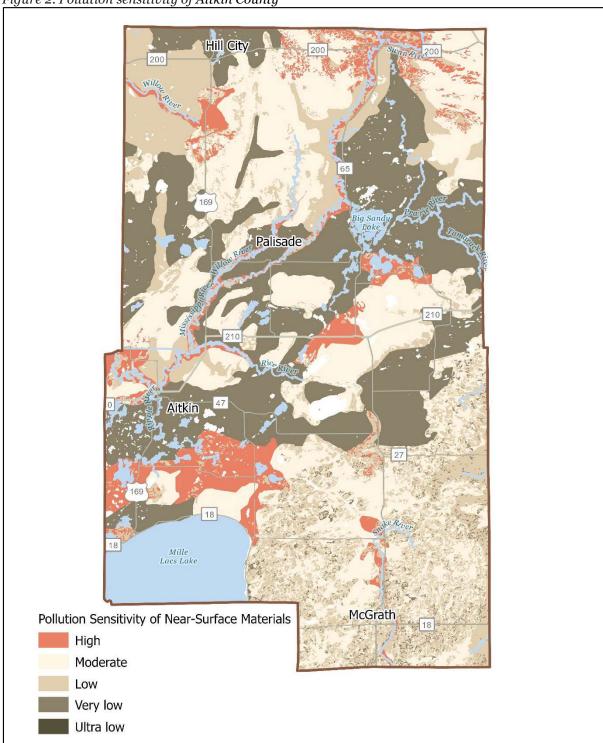


Figure 2. Pollution sensitivity of Aitkin County

SOURCE: (MPCA, 2018A)

3.4 Climate

According to the Köppen climate classification system, Aitkin County's climate is classified as "Dfb" – a humid continental climate region with large seasonal temperature contrasts with precipitation distributed throughout the year (no dry season) and at least four months of the year averaging above 50 °F but below 71.6 °F (Arnfield, 2020).

Since 1895, climate in the United States has been analyzed using the Climate Divisional Dataset. The boundaries of climate divisions have evolved significantly over the years: beginning in 1909 with 12 climatological districts that followed the principal drainage basins, to the current 344 climate divisions based largely on the USDA Bureau of Agricultural Economics Crop Reporting Districts (Guttman & Quayle, 1996). Climate division temperature, precipitation, and drought values are derived from the values reported by the weather stations in each climate division. In 2014, new methodologies to compute the climate division data were implemented, improving the data coverage and quality of the dataset (NOAA, 2020).

Table 4 displays monthly Climate Normals (three-decade averages) of temperatures as reported by the climate division in which Aitkin County is located.

Table 4. Aitkin County average monthly temperature, 1981-2010; 1990-2020

Month	MN Climate Division 6	MN Climate Division 6	MN Statewide	MN Statewide
MOIIIII	1981–2010	1990-2020	1981–2010	1990-2020
January	11.0°F	11.2°F	9.9 °F	10.1 °F
February	16.5°F	16.0°F	15.4 °F	14.7 °F
March	28.7°F	28.7°F	27.9 °F	27.8 °F
April	43.2°F	42.2°F	42.9 °F	41.9 °F
May	55.1°F	54.9°F	55.1 °F	54.8 °F
June	64.2°F	64.4°F	64.4 °F	64.8 °F
July	69.1°F	69.2°F	69.0 °F	69.0 °F
August	66.9°F	67.0°F	66.8 °F	66.8 °F
September	57.9°F	58.9°F	57.7 °F	58.6 °F
October	45.3°F	45.5°F	44.8 °F	45.1 °F
November	30.2°F	30.8°F	29.2 °F	29.8 °F
December	15.6°F	17.7°F	14.5 °F	16.5 °F

Source: (Midwestern Regional Climate Center, 2021)

3.4.1 CLIMATE CHANGE ADAPTATION

Minnesota's climate is currently changing in ways that are pushing us to adapt to weather patterns and extreme events that pose major threats to our health, homes, environment, and livelihoods. These events cost our state millions in property loss, damaged infrastructure, disrupted business, medical care, and support services, and put residents and responders at risk. Understanding how our weather is changing now and into the future will help planners and decision-makers in emergency management and supporting fields extend our progress in climate adaptation and lead to more resilient communities (MDH, 2018).

The National Climate Assessment suggests that infrastructure planning (particularly water resources infrastructure) should "be improved by incorporating climate change as a factor in new design standards and asset management and rehabilitation of critical and aging facilities, emphasizing flexibility, redundancy, and resiliency" (Georgakakos, et al., 2014).

Federal, state, and tribal governments are increasingly integrating climate change adaptation into existing decision-making, planning, or infrastructure-improvement processes (Georgakakos, et al., 2014). Definite predictions are difficult to make, as changes may vary depending on geographical location, even within Minnesota. Intense study of these topics is ongoing.

Rural communities are particularly vulnerable to climate change, due to their dependence upon natural resources, physical isolation, limited economic diversity, higher poverty rates and aging populations. According to Climate Change Impacts in the United States: The Third National Climate Assessment,

Warming trends, climate volatility, extreme weather events, and environmental change are already affecting the economies and cultures of rural areas. Many rural communities face considerable risk to their infrastructure, livelihoods, and quality of life from observed and projected climate shifts. These changes will progressively increase volatility in food commodity markets, shift the ranges of plant and animal species, and, depending on the region, increase water scarcity, exacerbate flooding and coastal erosion, and increase the intensity and frequency of wildfires across the rural landscape (Hales et al., 2014).

The Assessment also notes that transportation systems in rural areas are more vulnerable to risks such as flooding since there are typically fewer transportation options and infrastructure redundancies. In addition, power and communication outages due to severe weather events typically take longer to repair in rural areas, which can increase the vulnerability of elderly populations. Rural area populations are also more vulnerable since they typically have limited financial resources to deal with the effects of climate change.

The composition of the region's forests is expected to change as increasing temperatures shift tree habitats northward. While forests in the Midwest are currently acting as a net absorber of carbon, this could change in the future due to projected increases in insect outbreaks, forest fires, and drought, which will result in greater tree mortality and carbon emissions (Pryor et al., 2009).

3.4.2 CLIMATE DATA TRENDS

Over 50 years of storm data on record document that Minnesota has experienced an increase in the number and strength of weather-related natural disasters, particularly those related to rising temperatures and heavy downpours.

According to the 2015 Minnesota Weather Almanac,

During the three most recent decades, the Minnesota climate has shown some very significant trends, all of which have had many observable impacts...Among the detectable measured quantity changes are: (1) warmer temperatures, especially daily minimum temperatures, more weighted to winter than

any other season; (2) increased frequency of high dew points, especially notable in mid- to late summer as they push the Heat Index values beyond 100°F; and (3) greater annual precipitation, with a profound increase in the contribution from intense thunderstorms (Seeley M., 2015).

Temperature and precipitation projections below are taken from the Minnesota Department of Health (MDH) Region 2 profile. Appendix H provides the full MDH profile for Region 2, which includes Aitkin County. This report is one of a series of custom climate profile reports produced for each of the six HSEM regions in the state for reference to climate change projection data, impacts, and considerations for emergency management and preparedness professionals in this HSEM region. The information in this report was used to help inform the updated risk assessments in Section 4 of this plan for natural hazards and their relationship to climate change.

Temperature

The 2018 MDH report details how average temperatures have been affected by climate change:

There has been an increase in winter and summer temperatures. Our average winter lows are rising rapidly, and our coldest days of winter are now warmer than we have ever recorded. In fact, Minnesota winters are warming nearly 13 times faster than our summers. The continued rise in winter temperatures will result in less snowpack, which will increase chances for grassland/wildfires as well as drought. The warmer winter temperatures will also have major consequences for our ecosystems, including native and invasive species, whose growth, migration, and reproduction are tied to climate cues. The increase in Lyme disease across Minnesota is also likely influenced in part by the loss of our historical winters, due to a longer life-cycle period for ticks. Freeze-thaw cycles are likely to increase as well, damaging roads, power lines, and causing hazardous travel conditions. By mid-century our average summer highs will also see a substantial rise, coupled with an increase in more severe, prolonged heat waves that can contribute to drought and wildfires and pose a serious health threat, particularly to children and seniors. (MDH, 2018)

Changes in average temperatures are detailed in Table 5.

Increasing temperatures impact Minnesota's agricultural industry. As a result of increasing temperature, crop production areas may shift to new regions of the state where the temperature range for growth and yield of those crops is optimal. According to the National Climate Assessment, the Midwest growing season has lengthened by almost two weeks since 1950 due in large part to earlier timing of the last spring freeze. This trend is expected to continue. While a longer growing season may increase total crop production, other climate changes, such as increased crop losses and soil erosion from more frequent and intense storms and increases in pests and invasive species, could outweigh this benefit.

Table 5. Temperature trends for HSEM Region 2

Average Summer Maximum Temperature			Average Winter Minimum Temperature		
1981–2010	2050-2075	Change	1981–2010	2050-2075	Change
77.2 °F	84.6 °F	+7.4 °F	1.2 °F	11.3 °F	+10.1 °F

SOURCE: (MDH, 2018)

There may be higher livestock losses during periods of extreme heat and humidity. Losses of livestock from extreme heat led to a challenge in the disposal of animal carcasses. Currently there are only two rendering facilities in Minnesota available for livestock disposal. To minimize the detrimental effects of heat stress on animal metabolism and weight gain, Minnesota farmers have also begun redesigning and retrofitting dairy, hog, and poultry barns with better watering, feeding, and ventilation systems (Seeley, 2015).

Precipitation

Climate change has also affected precipitation, as described in detail in the 2018 MDH report:

There has been an increase in total average as well as heavy precipitation events, with longer periods of intervening dry spells. Our historical rainfall patterns have changed substantially, giving rise to larger, more frequent heavy downpours. Minnesota's high-density rain gauge network has captured a nearly four-fold increase in "mega-rain" events just since the year 2000, compared to the previous three decades. Extreme rainfall events increase the probability of disaster-level flooding. However, there is also an increased probability that by mid-century heavy downpours will be separated in time by longer dry spells, particularly during the late growing season. Over the past century, the Midwest has not experienced a significant change in drought duration. However, the average number of days without precipitation is projected to increase in the future, leading Minnesota climate experts to state with moderate-to-high confidence that drought severity, coverage, and duration are likely to increase in the state. Modeling future precipitation amounts and patterns is less straight-forward compared to temperature. Some climate models do a better job than others representing rainfall for the Midwest, and available data sources only provide average estimates on a monthly scale, masking the spikes in extremes that trigger flood and drought disasters. (MDH, 2018)

3.5 Demographics

Aitkin County contains six cities, 40 townships, and four unincorporated townships. In 2020, Aitkin County had a population of 15,697, averaging eight people per square mile of land area (U.S. Census Bureau, 2020b). The county seat, Aitkin City, is the largest city in the county with a 2020 population of 2,168. Table 6 lists the communities in Aitkin County along with their respective population numbers.

Population growth trends have an important influence on the needs and demands of a variety of services such as transportation, law enforcement, and emergency response. Understanding population trends and location of population concentrations is essential for making projections regarding potential impacts in the event of a disaster.

Table 6. Aitkin County Population by Community, 2010 and 2020

Community	2010 Population	2020 Population	% of County
Aitkin City	2165	2,168	13.81%
Aitkin Township	856	910	5.80%
Ball Bluff Township	278	272	1.73%

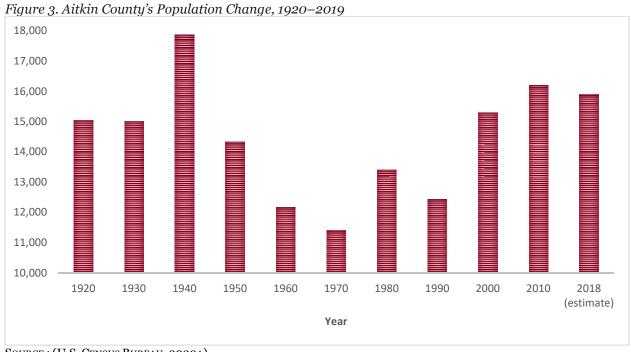
Community	2010 Population	2020 Population	% of County
Balsam Township	42	32	0.20%
Beaver Township	53	62	0.39%
Clark Township	169	116	0.74%
Cornish Township	28	45	0.29%
Davidson Unincorporated Township	42	42	0.27%
Farm Island Township	1099	995	6.34%
Fleming Township	312	329	2.10%
Glen Township	450	432	2.75%
Haugen Township	178	154	0.98%
Hazelton Township	844	792	5.05%
Hill City	633	613	3.91%
Hill Lake Township	430	435	2.77%
Idun Township	259	222	1.41%
Jevne Township	322	334	2.13%
Jewett Unincorporated Township	47	45	0.29%
Kimberly Township	195	188	1.20%
Lakeside Township	463	504	3.21%
Lee Township	50	38	0.24%
Libby Township	45	43	0.27%
Logan Township	184	185	1.18%
Mcgrath City	80	41	0.26%
Mcgregor City	391	384	2.45%
Mcgregor Township	105	96	0.61%
Macville Township	206	170	1.08%
Malmo Township	337	353	2.25%
Millward Township	72	60	0.38%
Morrison Township	200	180	1.15%
Nordland Township	972	983	6.26%
Northeast Aitkin Unincorporated Township	11	8	0.05%
Northwest Aitkin Unincorporated Township	342	355	2.26%

Community	2010 Population	2020 Population	% of County
Palisade City	167	162	1.03%
Pliny Township	109	116	0.74%
Rice River Township	136	120	0.76%
Salo Township	102	85	0.54%
Seavey Township	61	64	0.41%
Shamrock Township	1272	1,215	7.74%
Spalding Township	329	320	2.04%
Spencer Township	518	522	3.33%
Tamarack City	94	62	0.39%
Turner Township	208	137	0.87%
Verdon Township	45	40	0.25%
Wagner Township	332	335	2.13%
Waukenabo Township	316	312	1.99%
Wealthwood Township	268	251	1.60%
White Pine Township	34	38	0.24%
Williams Township	144	120	0.76%
Workman Township	207	212	1.35%
Total	16,202	15,697	100.00%

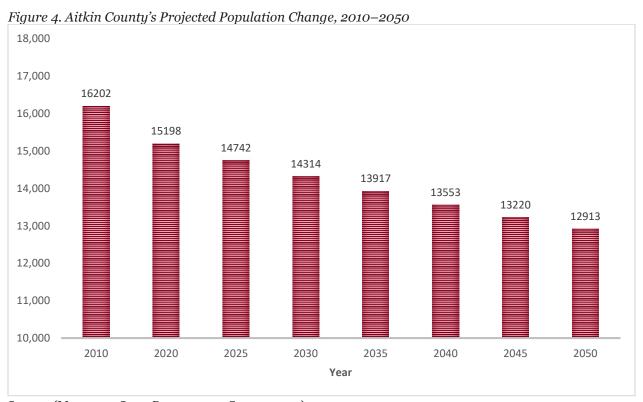
SOURCE: (U.S. CENSUS BUREAU, 2020B)

The county's population saw a surge in growth during the 1930's and reached its record high population of 17,865 in 1940. Between 1940-1970 the county's population shrank by 36%. From 1990 to 2010 Aitkin County's population has been steadily rising, growing by 30% during that time period (U.S. Census Bureau, 2020b). However, population predictions show a downward trend, and the Minnesota State Demographic Center projects a 20% decline in Aitkin County's population through 2050 (Minnesota State Demographic Center, 2020). Figure 3 provides an overview of the county's historic population change. Projected population is detailed in Figure 4.

Aitkin County's total population consists of 49.4% females and 50.6% males. 6.3% of the total population is aged 80 and older, and 19.8% of the total population is under 20 years old. 60–79-year-olds make up the largest age category in Aitkin County, at 30.0% of the population. Figure 5 breaks down the percentage of the total population into categories of age and sex.



Source: (U.S. Census Bureau, 2020A)



SOURCE: (MINNESOTA STATE DEMOGRAPHIC CENTER, 2020)

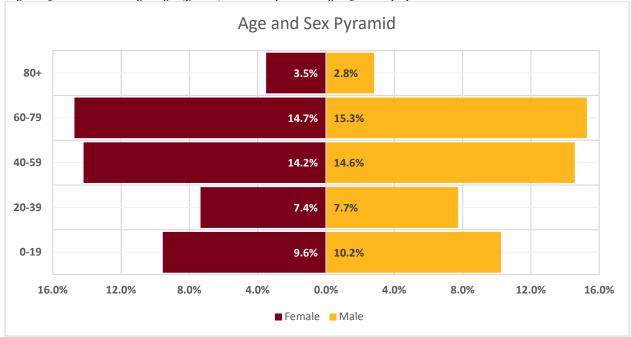


Figure 5. Aitkin County's age (years) and sex percentage of total population

SOURCE: (U.S. CENSUS BUREAU, 2020B)

3.6 Economy

As of 2018, the Education and Health Services industry supersector employed (30%) of people in Aitkin County, followed by Trade, Transportation and Utilities (22%), and Leisure and Hospitality (12%). The total number of jobs in the county decreased by nearly 1.5% between 2008 and 2018. The ten year change in the average annual employment of each industry supersector in Aitkin County is in Table 7.

Table 7. Average Annual Employment by Industry Supersector, Aitkin County

Industry Supersector	Average # of Employees (2008)	Average # of Employees (2018)	% Change
Natural Resources and Mining	103	No Data	NA
Construction	309	205	-33.66%
Manufacturing	No Data	420	NA
Trade, Transportation and Utilities	986	908	-7.91%
Information	No Data	6	NA
Financial Activities	135	112	-17.04%
Professional and Business Services	120	107	-10.83%
Education and Health Services	1,051	1,233	17.32%
Leisure and Hospitality	582	508	-12.71%
Other Services	123	135	9.76%
Public Administration	315	370	17.46%
Total, All Industries	4,151	4,090	-1.47%

SOURCE: (MN DEED, 2020)

The 2017 median household income in Aitkin County was \$30,652, compared to a Minnesota average of \$65,699. The median household income in Aitkin County decreased by 1.7% from 2010 to 2017. The percent of the county's population living below the poverty level in 2017 was 13.7%, compared to an 11.8% average for the state of Minnesota (U.S. Census Bureau, 2020c).

3.7 Critical Infrastructure

Critical infrastructure systems are among the most important assets of a community. While different infrastructures accomplish different goals, their continued operations are integral to the health, safety, and economic and cultural well-being of the residents of Aitkin County. Critical infrastructure is identified based on FEMA guidelines (FEMA, 2013a) as well as input from Aitkin County and classified into the following groups: Emergency and Shelter Facilities, Infrastructure Systems, High Potential Loss Structures, and Significant County Assets. For the complete list of critical infrastructure in Aitkin County, see Appendix I.

3.7.1 ESSENTIAL FACILITIES

Emergency and shelter facilities are vital to the health and welfare of entire populations, providing services and functions essential to communities, especially during and after a disaster. Emergency and shelter facilities include healthcare facilities, emergency services, evacuation centers/shelters, and schools (often used as evacuation centers/shelters). U-Spatial provided Aitkin County with an interactive online application to verify the names and locations of all emergency and shelter facilities. The verified locations were mapped, and the resulting spatial data were provided to the county. Figure 6 shows the emergency and shelter facilities in a few representative communities with concentrated facilities.

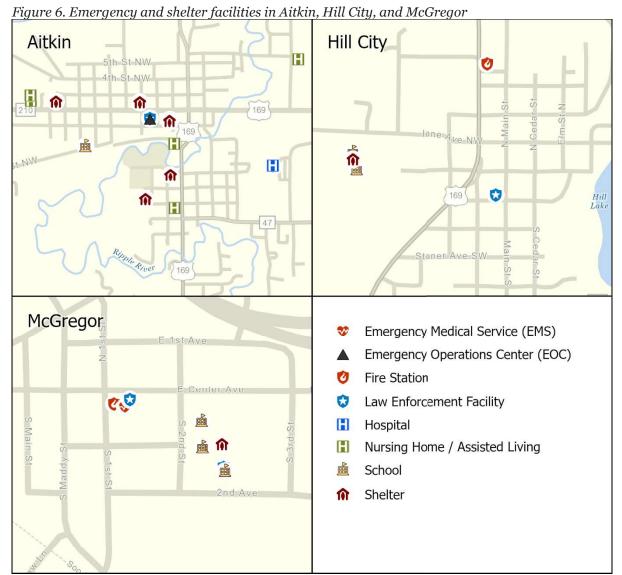
Healthcare Facilities

Aitkin County is served by seven healthcare facilities. There is only one hospital, the Riverwood Healthcare Center. It is a 24-bed critical access hospital with primary care clinics in Aitkin, McGregor and Garrison. The other six identified healthcare facilities are nursing homes; five are located in the city of Aitkin, and one in McGregor.

Emergency Services

Law Enforcement: The Aitkin County Sheriff's Department in the city of Aitkin provides services to the entire county. The sheriff's offices also include the county jail. The sheriff is the chief law enforcement officer in the county. The following cities in Aitkin County have police departments: Aitkin, McGregor, and Hill City.

The one Emergency Operation Center in Aitkin is located in the sheriff's office in the city of Aitkin.



SOURCE: (HIFLD, 2021; MDH, 2021A; AITKIN COUNTY)

Fire & Rescue Services: The county has seven fire departments including Hill City, Jacobson, Aitkin, and McGrath, as well as the McGregor Volunteer Fire Department, which has two stations, and the Palisade Volunteer Fire Department. EMS services are operated through both McGregor stations, Palisade, and by North Memorial Medical Transportation in the Aitkin area.

Additionally, the Department of Natural Resources operates four stations and can assist in the event of rural wildfires. These stations are Hill City, McGrath, Aitkin Area, and Sandy Lake, which is located in McGregor.

Schools & Evacuation Centers/Shelters

There are 10 schools in Aitkin County: McGregor has an elementary school, a secondary school, and an alternative learning program. The city of Aitkin has two elementary schools, a secondary school, and the

Minisinaakwaang Leadership Academy. Hill City has an elementary school, a middle school and a high school.

FEMA and the American Red Cross have designated 14 facilities within the county as shelters to be used in the event of an issued evacuation. Three are located in Palisade, two each in McGregor and Hill City, and six are located in the city of Aitkin.

3.7.2 INFRASTRUCTURE SYSTEMS

Infrastructure systems include the transportation systems and utility systems fundamental to the functioning of communities. These systems allow for emergency facilities to operate and connect to residents; they are the lifelines for communities.

Transportation Systems

Eight highways administered by the Minnesota Department of Transportation (Mn/DOT) serve Aitkin County. These highways include U.S. Highways and State Trunk Highways, which are the most heavily used in the county. In total, there are 1,795 miles of roadway in Aitkin County. The primary roadways passing through the county are U.S. Highway 169 and Minnesota State Highways 18, 27, 47, 65, 200, and 210.

The Minnesota Department of Transportation classifies roads into route systems according to the services a road is intended to provide. Table 8 lists the total miles of road for each route system within Aitkin County.

There are 176 bridges and culverts on county, township and city roads. All county bridges are the responsibility of the County Engineer at the Aitkin County Highway Department. The bridges are inspected on a rotating basis depending upon the type of structure.

Table 8. Road miles by route system

Route System Defined	Miles
County Road	137
County State Aid Highway (CSAH)	382
Military Road	1
MN Highway	205
Municipal	32
National Wildlife Refuge	13
Ramp or Connector	0.6
State Forest Road	98
State Park Road	8
Township Road	788
Unorganized Territory Road	81
US Highway	49
Total	1,794.6

SOURCE: (MNDOT, 2012)

Railways: There is one main railroad company operating within Aitkin County. This is the Burlington Northern-Santa Fe (BNSF) Railroad. The largest volumes of goods transported on this railroad are raw materials such as coal to be shipped via the Duluth/Superior Port. The BNSF railroad company is a nationally operated railroad company that serves a variety of industrial and commercial customers. BSNF operates two main lines in northeast Minnesota, including the 39.31 miles of track in Aitkin County.

Airports: Three airports in the county provide air service. The Aitkin Municipal Airport (Steve Kurtz Field) is a public-use airport 2 miles northeast of the city of Aitkin, with Aitkin County having two-thirds ownership and the City of Aitkin one-third ownership. Situated at an elevation of 1,206 feet, the airport has two runways: one asphalt (4,018 feet long) and one turf (3,335 feet). The McGregor Isedor Iverson Airport is owned by the city of McGregor, located at an elevation of 1,228 feet, just north of town. One asphalt runway is extant (3,400 feed long). The Hill City-Quadna Mountain Airport lies south of Hill City at an elevation of 1,289 feet. Owned by the city, the airport has one turf runway (2,850 feet).

Utility Systems

The infrastructure of utility system networks facilitates the process of providing essential utilities to consumers. A map of the major utilities systems in Aitkin County is displayed in Figure 7.

Water & Sewer: Aitkin County is home to five wastewater treatment plants, in Hill City, Aitkin, Palisade, Tamarack, and McGregor. All are situated in the Upper Mississippi River Basin.

Energy: Eight electrical substations are located within Aitkin County along with 21 major electric transmission lines. Residents of Palisade and Aitkin receive their electricity from Great River Energy. The rest of the county is served by Minnesota Power Company. The electrical substations are all operated by Great River Energy.

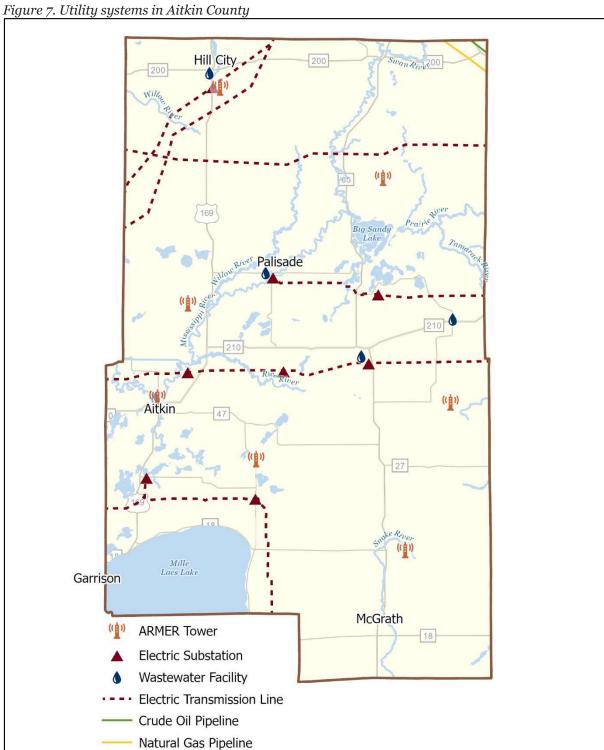
A natural gas pipeline, operated by Great Lakes Gas Transmission, cuts across the northeast corner of the county. A crude oil pipeline operated by Enbridge also crosses the county in the northeast corner.

Communication: Communication infrastructure includes the Allied Radio Matrix for Emergency Response (ARMER) system. Administered in coordination with the Minnesota Statewide Radio Board, the ARMER program manages the implementation of a 700/800 megahertz (MHz) shared digital trunked radio communication system capable of servicing the radio communication needs of every public safety entity operating in Minnesota (MN DPS, 2021). There are seven ARMER towers in Aitkin County.

3.7.3 HIGH POTENTIAL LOSS STRUCTURES

High potential loss structures are structures which would have a high loss or negative impact on the community if they were damaged or destroyed (FEMA, 2004c). These structures include dams, levees (see Section 3.4.4), and facilities storing hazardous materials.

A hazardous materials facility contains materials that would threaten the public if released. These facilities are required to register with the EPA due to the type and quantity of hazardous materials being stored or produced at the facility. None of these facilities have been identified in Aitkin County.



Source: (MN GIO, 2016; MPCA, 2018B; US EIA, 2020)

3.7.4 SIGNIFICANT COUNTY ASSETS

Significant county assets include larger employers which represent a primary economic sector of a community, buildings of government services deemed to be significant, and cultural or historic assets that are important to a community.

Employers: While every employer is an important asset to a community, the loss or disruption of certain employers, or the primary economic sector of a community, will have a large negative impact on the respective communities. Eight employers with more than 70 employers were identified in Aitkin County. Six are located in the city of Aitkin, and the other two are in McGregor. These employers include Aitkin County and the public school system (Aitkin County, 2001).

Government Buildings: Government buildings deemed to be significant is at the discretion of the communities, but often include: government service centers, the court house, jails, and prisons. Previously mentioned government emergency services (police and fire), as well as schools, are not included in this list. Five essential locations have been identified by the county, all in the city of Aitkin. They include: the Aitkin County Land Department, Aitkin County Highway Department, Aitkin County Health & Human Services, Aitkin County Judicial Center, and the Aitkin County Government Center.

Cultural Resources

Cultural resources are cultural or historic assets that are unique, irreplaceable, or important to a community. Twelve such assets have been identified in Aitkin County. These assets include several buildings, a shipwreck, and an historic portage route.

3.8 Land Use and Ownership

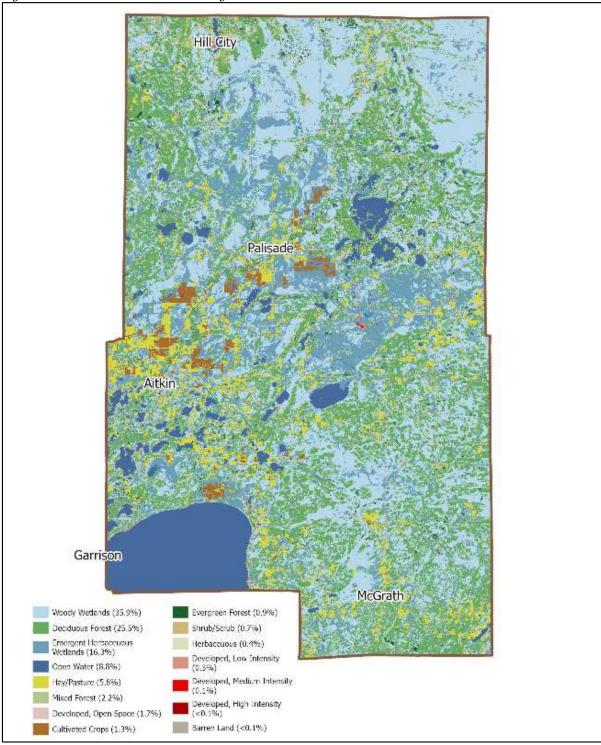
Aitkin County is a large, cultivated county. The county is 1,995 square miles, 39% of which is covered by cultivated crops, 12% of which is unclassified, followed by deciduous forest (10%), and woody wetlands (10%) (USGS, 2016). A map of Aitkin County's land cover is displayed in Figure 8.

Nearly 45% of the land in Aitkin County is cropland. The term "cropland" encompasses five components: harvested cropland, crop failure, cultivated summer fallow, cropland used only for pasture, and idle cropland (USDA ERS, 2019). Between 2012 and 2017, the area of total cropland in the county decreased by nearly 12.5%, from 61,792 acres in 2012 to 54,095 acres in 2017 (USDA, 2012, 2017). "Harvested cropland" are the acres of cropland that are planted and successfully harvested. Table 9 shows a breakdown of Aitkin County's harvested cropland in 2017.

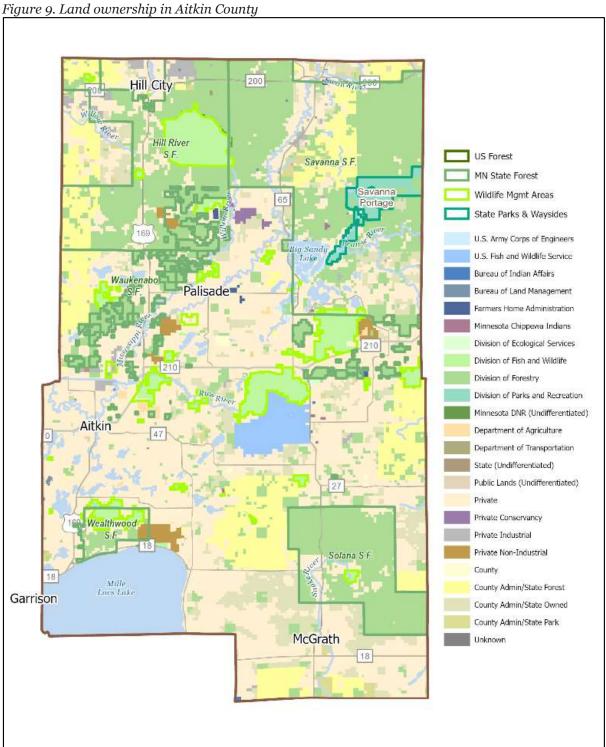
In addition to growing crops, Aitkin County is also home to numerous feedlots. A 2016 inventory counted 86 active feedlots in the county. All of these feedlots raise cattle as the primary stock, 95% of which raise beef cattle and 5% of which raise dairy cattle. An average of 68 animals are on each feedlot (MPCA, 2016).

Ownership of the county is divided between 24 different agencies; the majority being privately owned (47%). Land ownership is displayed in Figure 9.

Figure 8. Land cover in Aitkin County



Source:(USGS, 2016)



Source: (MN DNR, 2008)

Table 9. Aitkin County's Harvested Cropland, 2017

Crop	Acres	% of Harvested Cropland
Hay and Haylage	34,574	75.72%
Soybeans	4,995	10.94%
Corn (grain and silage)	1,715	3.76%
Oats	612	1.34%
Potatoes	11	0.02%
Other	3,754	8.22%
Total	45,661	100%

SOURCE: (USDA NASS, 2017)

Section 4 – Risk Assessment and Vulnerability Analysis

The goal of mitigation is to reduce or eliminate the future impacts of a hazard, including loss of life, property damage, disruption to local and regional economies, and the expenditure of public and private funds for recovery. Sound mitigation practices must be based on sound risk assessment. A risk assessment involves quantifying the potential loss resulting from a disaster by assessing the vulnerability of buildings, infrastructure, and people.

The risk assessments in this plan are based on widely accepted tools and databases as well as consultation with hazard mitigation planning expertise at FEMA and HSEM as well as technical guidance from the MN DNR State Climatology Office. Geographic Information System (GIS) tools are used throughout to demonstrate geographically based risk and vulnerabilities.

This assessment identifies the characteristics of natural hazard events, the severity of the risk, the likelihood of these events occurring, and the vulnerability of each jurisdiction's population and assets.

4.1 Hazard Identification and Prioritization

The cornerstone of the risk assessment is identification of the hazards that affect jurisdictions. To facilitate the planning process, several sources were employed to ensure that the natural hazards are identified prior to assessment. Listed below are the natural hazards addressed in the 2019 Minnesota State Hazard Mitigation Plan:

Flooding Lightning Drought
Dam/Levee Failure Winter Storms Extreme Heat
Wildfires Landslides (Erosion and Extreme Cold
Windstorms Mudslides) Earthquakes

Tornadoes Land Subsidence (Sinkholes Coastal Erosion & Flooding

Hail and Karst)

4.1.1 HAZARD PRIORITIZATION

As part of the plan update process, the planning team reviewed, updated, and prioritized the hazards faced by residents of Aitkin County, updated the existing mitigation actions published in the 2015 Multi-Hazard Mitigation Plan, and proposed new mitigation actions.

To engage in this process, the planning team drew on a number of data sources. First, the team examined the hazards identified in the 2015 Multi Hazard Mitigation Plan. The natural hazards that pose risk to Aitkin County were discussed and adjusted to reflect the definitions of natural hazards used in the 2021 Minnesota State Hazard Mitigation Plan.

Table 10. Prioritization of hazards for 2015 and in this Update

Natural Hazards	2015 Priority	Current Priority
Addressed in the Last Plan	2015 Priority	Current Priority
Tornadoes	High	High
Winter Storms	High	High
Flooding	Moderate	High
Windstorms	High	High
Wildfire	Moderate	Moderate
Hail	Low	Low
Lightning	Low	Low
Drought	Moderate	Low
Extreme Cold	Low	Low
Extreme Heat	Low	Low
Landslides	Low	Low

While the focus of this MHMP is on natural hazards, planning took place with the understanding that many non-natural hazards could occur as a result of natural disasters (i.e., disruption in electrical service due to downed powerlines from heavy snow, ice storms, or high wind events).

The prioritization of hazards for the Aitkin County MHMP Update (Table 10) was based upon group review and discussion of the natural hazards that pose risk to the county during the MHMP Planning Team Meetings. In the review of each hazard, the group was asked to consider if the risk to severe natural hazards had increased or decreased since the last plan and if this affected the priority to mitigate against that hazard. After an extensive discussion, stakeholders agreed that all concerns relating to drought were of increased wildfire risk, and those were already addressed in the wildfire mitigation actions. Drought was moved to low priority. Appendix F provides the discussion notes from the meetings.

4.1.2 NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION (NCEI) STORM EVENTS DATABASE

Much of the storm data used in this plan is from the NOAA National Centers for Environmental Information's (NCEI) Storm Events Database. The NCEI receives storm data from the National Weather Service (NWS), which receives the information from various local, state, and federal sources. The Storm Events Database contains records documenting:

- the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce;
- rare, unusual weather phenomena that generate media attention, such as snow flurries in South Florida or the San Diego coastal area; and
- other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occur in connection with another event (NCEI, 2021).

Table 11. National Centers for Environmental Information event types

Hazard	NCEI Event Types	Period of Record
Flooding	Flood, Flash Flood, Heavy Rain	1996–present
Windstorms	Thunderstorm Wind, High Wind, Strong Wind	1955–present
Tornadoes	Tornado	1950-present
Wildfire*	Wildfire	1996–present
Hail	Hail	1955–present
Lightning	Lightning	1996–present
Winter Storms	Winter Weather, Winter Storm, Blizzard,	
	Heavy Snow, Ice Storms, Lake Effect Snow, Sleet	1996–present
Extreme Cold	Cold, Wind Chill	1996-present
Extreme Heat	Excessive Heat, Heat	1996-present

SOURCE (NCEI, 2021)

Records in the Storm Events Database go back as far as January 1950; however, only tornado events were being reported from the beginning. Revisions to the type of storm events reported to the database are ongoing. As of July 16, 2018, 55 different types of storm events were being reported to the Storm Events Database (NCEI, 2021). Storm Events Database hazard categories used in this plan are listed in Table 11 below. For some hazards, other sources are used in the hazard histories to create a more comprehensive record.

A summary table of events related to each hazard type is included in the hazard profile sections that follow in Section 5. Please note, frequency statements in hazard profile sections are based on the hazards reported for the entire period of record. In some cases, events may be underreported.

The Storm Events Database is updated regularly. NCEI receives data from the NWS approximately 75 days after the end of a data month therefore, during the timeframe of compiling this plan, data more current than what is used in this report will become available (NCEI, 2021).

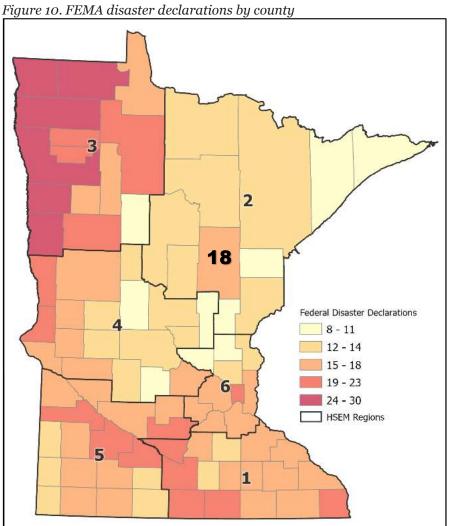
The economic and property loss estimates in the Storm Events Database are often preliminary in nature and may not match the final assessment of losses related to given weather events.

4.1.3 FEMA- AND MINNESOTA-DECLARED DISASTERS AND ASSISTANCE

Another historical perspective is derived from FEMA-declared disasters. Fifteen major disaster and three emergency declarations have been made in Aitkin County between 1957 and January 2021 (Figure 10). These are listed in Table 12.

Minnesota Statutes Chapter 12A established a framework for state agencies to help communities recover from disaster. In 2014, Governor Mark Dayton signed legislation establishing the state's Disaster Assistance Contingency Account to assist local communities after a natural disaster when federal aid is not available. Damage required to declare a disaster is half the threshold of the federal/FEMA public assistance (only) program threshold (MN HSEM, 2019). Aitkin County was included in three State Disaster Declarations (Table 13).

The Hazard Mitigation Grant Program (HMGP), Building Resilient Infrastructure and Communities (BRIC), and Flood Mitigation Assistance (FMA) Program are FEMA-administered hazard mitigation assistance programs which provide funding for eligible mitigation planning and projects which reduce disaster losses and protect life and property from future disaster damages (FEMA, 2021b). Table 14 lists the projects in the county funded by a hazard mitigation assistance program.



Source: (FEMA, 2021A)

Table 12. FEMA-declared Major Disasters and Emergency Declarations in Aitkin County (1957–April 2021)

Declaration	Declaration	In aid on t	
Number	Year	Incident	Incident Period
EM-3453-MN	2020	Covid-19	01/20/2020-current
DR-4531-MN	2020	Covid-19 Pandemic	01/20/2020-current
DR-4390-MN	2018	Severe Storms, Tornadoes, Straight- Line Winds, And Flooding	06/15/2018-07/12/2018
DR-4069-MN	2012	Severe Storms And Flooding	06/14/2012-06/21/2012
EM-3242-MN	2005	Hurricane Katrina Evacuation	08/29/2005-10/01/2005
DR-1370-MN	2001	Severe Winter Storms, Flooding, And Tornadoes	03/23/2001-07/03/2001
DR-1283-MN	1999	Severe Storms, Winds, And Flooding	07/04/1999-08/02/1999
DR-1175-MN	1997	Severe Flooding, High Winds,Severe Storms	03/21/1997-05/24/1997
DR-1116-MN	1996	Flooding And Severe Storms	03/14/1996-06/17/1996
DR-1064-MN	1995	Severe Thunderstorms, Winds, Flooding, Tornadoes, And Heat	07/09/1995-07/14/1995
DR-993-MN	1993	Severe Storms, Tornadoes & Flooding	05/06/1993-08/25/1993
DR-582-MN	1979	Severe Storms & Flooding	04/30/1979-04/30/1979
EM-3013-MN	1976	Drought	06/17/1976-06/17/1976
DR-473-MN	1975	Flooding	07/05/1975-07/05/1975
DR-347-MN	1972	Severe Storms & Flooding	08/01/1972-08/01/1972
DR-255-MN	1969	Flooding	04/18/1969-04/18/1969
DR-215-MN	1966	Flooding	03/22/1966-03/22/1966
DR-188-MN	1965	Flooding	04/11/1965-04/11/1965

SOURCE: (FEMA, 2021A)

Table 13. State disaster declarations in Aitkin County, 2015–2021

DR	Date Declared	Incident Period	Incident Type	Eligible Counties & Tribes
SD-030	10/18/2018	8/31-9/2/2018	Severe thunderstorms, strong winds, hail	Aitkin
SD-010	10/9/2019	7/19–7/21/2016	Severe thunderstorms, high winds, flooding	Aitkin, Beltrami, Cass, Clearwater, Crow Wing, Lake, St. Louis, Bois Forte Band of Chippewa, Fond Du Lac Band of Lake Superior Chippewa, Leech Lake Band of Ojibwe
SD-08	8/30/2016	7/9-7/11/2016	Severe storms, tornadoes, heavy rains, flooding	Aitkin, Benton, Carlton, Crow Wing, Kanabec, Meeker, Mille Lacs, Morrison, Pine, Traverse

SOURCE: (MN HSEM, 2021)

Table 14. Historical Hazard Mitigation Funding awarded in Aitkin County

DR/project #	Sub-Grantee	Project Type	Feder	al Share (%75)
1941.10	Aitkin County	Plan	\$	25,500.00

SOURCE: (MN HSEM, 2021)

4.2 Jurisdictional Change in Risk or Vulnerability Assessment

Jurisdictions in Aitkin County have varying vulnerabilities to and concerns about impacts to their communities. Interviews with jurisdictional representatives in addition to the Local Mitigation Survey resulted in some specific concerns (see Appendix C: Local Mitigation Surveys). Participants were asked to provide feedback on how their community's vulnerability to natural hazards had either increased (due to changes such as development) or decreased (due to local mitigation efforts) over the past five years.

At the local jurisdictional level, several communities did note an increase in development over the last five years as a factor for an increase in vulnerability to severe weather or disaster events.

4.2.1 JURISDICTIONAL RESPONSES

As part of the Local Mitigation Survey form, Aitkin County Emergency Management and each city jurisdiction were asked to provide a vulnerability assessment that described what structures, systems, populations, or other community assets were susceptible to damage and loss from specific hazard events. Following are examples of common responses related to noted local vulnerabilities (as preserved in Appendix C: Part A, Question 3) for each jurisdiction. This information was used to help tie local vulnerability back to the exposure of people, buildings, infrastructure, and the environment to the natural hazards listed in Table 10 and to assist local governments in development of related local mitigation actions to reduce risk.

Aitkin County

Flooding: Aitkin County is susceptible to flooding with its low lands, wetlands, lakes and rivers. Heavy rain events have created problems to our township, county, and state roads by undermining the roads, and washing out culverts. Many lakes now have "no wake" restrictions to lessen the possibility of lakeshore erosion and flooding to homes. In the last few years, there have been several high rain events that have caused flooding in several areas of the county. With the rise in lakes and river waters, there is an old diversion channel and levee on the edge of the city of Aitkin that the Army Corps of Engineers has stated will not function, as it should. The residents in that area are in danger of flooding.

Ice Storms, Blizzards: Aitkin County has power lines, transmission lines and high voltage lines running through several areas of our county. Ice storms or blizzards could cause damage to these. The trees and power lines are susceptible to ice and windstorms that break and blow down them down. This may leave an inordinate amount of debris and cause disposal problems as well as hazardous conditions for anyone traveling our roadways.

Windstorms, Tornadoes: Aitkin County is a tourist destination with several campgrounds, cabins, and seasonal trailers. Only Savanna Portage State Park has a designated shelter. The resorts, campgrounds, and trailer parks are vulnerable to falling trees, hail, and high winds.

Extreme Heat/Cold: Aitkin County has a higher percentage of elderly residents. In cases of extreme heat and cold, any power failures due to over loads or storm events could endanger that population.

Wildfire: Aitkin County is home to commercial peat farms. Once a peat fire is started it is difficult to extinguish and could burn for several months.

City of Aitkin

Flooding: Homes, sewer collection and treatment are vulnerable to flooding.

Ice Storms, Blizzards: We have power lines and power poles that have failed or may fail due to heavy snow and ice. Ice storms are dangerous for the safety of roads. For blizzards it is difficult for the ambulance and first responders to safely respond.

Windstorms, Tornadoes: Downed trees, power outages, and downed power poles can occur. Blocked roads during storms makes it difficult for first responders to get through.

Extreme Cold/Heat: Seniors and children are vulnerable to extreme cold, especially if the power goes down during storm events.

Lightning: Fire damage can occur to houses and buildings, as well as a loss of power.

City of Hill City

Flooding: Our city sewer lift stations are vulnerable to failure during flood events if the power goes down or the lift station is flooded. Heavy rain impacts out city streets and alleys.

Windstorms, Tornadoes: We have a municipal campground without a proper storm shelter where visitors are vulnerable to high winds events.

City of McGrath

Lightning: Lightning can cause a fire if it strikes any structures, or it can damage city infrastructure such as the power to our city sewer system.

City of McGregor

Flooding: Our city sewer lift station is vulnerable to failure during flood events if the power goes down or the lift station is flooded. There are many residents of the city that lack the ability to evacuate on their own and subsequently require shelter during a flood. The ability to sustain

emergency operations is critical to the management of flooding, so having backup power for our fire station will ensure operational success.

Ice Storms, Blizzards: We have power lines and power poles that may fail due to heavy snow and ice storms. Having a location with backup power to house displaced vulnerable residents during prolonged power outages is needed. Our ambulance service has medication and supplies that must be stored at constant temperatures and would be damaged if the fire hall was not heated during an extended power outage. Having a fire station that remains operational in the event of a long-term power outage is mission critical to any other emergency that would arise (i.e., house fire).

Windstorms, Tornadoes: Both of the city's mobile home parks are without storm shelters, which leaves the residents vulnerable to high-wind events. Our current metal frame fire hall is without a shelter for emergency crews during storm events. Having back-up power for our fire station, water tower, and sewer system is critical.

Extreme Cold: Our seniors and children are vulnerable to extreme cold, especially if the power goes down during extreme cold events. To be able to use our fire station, City Hall, and/or community center as a shelter and remain operational, backup generator power is needed.

Extreme Heat: We have a high number of elderly residents in our city, so having a place to shelter this vulnerable population during a heat emergency is critical.

Wildfire/Drought: The entire city is surrounded by grassy wetlands that interface directly with the majority of our residential and commercial structures. Wildland fire could disrupt every system in the city including our sewer system. Wildfire has the potential to damage power poles and our local power substation, so having back-up power for our water tower to sustain firefighting operation would be critical.

Lightning: Our fire department's VHF communications tower was struck by lightning, which disabled our backup emergency communications system. The lightning also did damage to other electronics in the fire hall.

City of Palisade

Flooding: We have an aging population, and some would be unable to evacuate to a safe place on their own; they would require assistance to mobilize and a place to shelter during a flood. Having backup power systems to sustain emergency operations would be critical. The city has no generator.

Ice Storms, Blizzards: Power lines may go down and take-out power for prolonged periods. Having a shelter with back-up power would help those most vulnerable to cold and may require power for oxygen and medications that are temperature sensitive. Having equipment at the fire hall must also be maintained and ready to respond to any other emergencies in the city and our surrounding service area.

Windstorms, Tornadoes: Our outdoor warning siren was struck by lightning and has not been replaced, so we cannot alert our residents to a tornado by this siren. We also have very limited space for citizens to shelter safely that is accessible for the elderly and disabled. We also have more mobile homes that are going up and a county park with RV parking that is managed by the city; it is full from Fishing Opener to hunting season.

Extreme Cold/Heat: Should power go out; we need a place like our community center/fire hall where vulnerable seniors and children can go to be safe.

Wildfire: Having back-up power to our water tower is critical to our fire department fighting fires.

City of Tamarack

Flooding: Although the city of Tamarack wasn't affected within city limits by past flood events, we did become an island because surrounding area highways (Hwy. 210) were flooded, and we couldn't go anywhere.

Windstorms, Tornado: City residents do not have basements because of the high level of the water table, so they cannot take shelter during a severe storm event or tornado. We are in need of a storm shelter or tornado safe room in Tamarack.

Ice Storms: We have had power lines and power poles that have failed.

Extreme Cold: When the power goes, out there is no back up heat.

Extreme Heat: When the power goes out there is no cooling system.

Wildfire: Wildland fire is a real threat as we have swamp and trees surrounding the town. The railroad on the north side of town has set off a number of fires. Highway 210 is on the south side of Tamarack, and people throwing cigarettes out of car windows has started fires.

4.2.2 FUTURE DEVELOPMENT

Because Aitkin County is vulnerable to a variety of natural hazards, the county government—in partnership with the state government—must make a commitment to prepare for the management of these events. Aitkin County is committed to ensuring that county elected and appointed officials become informed leaders regarding community hazards so that they are better prepared to set and direct policies for emergency management and county response.

As part of the vulnerability assessment conducted for the Aitkin County MHMP update, jurisdictions were asked to describe if there were any factors related to population growth, zoning, or development they felt have increased their community's vulnerability to future severe weather or disaster events (see Section 4.1.2). Following is a compilation of common responses from Appendix C: Part A, Question 5.

City of Aitkin

As the city expands there will be an increase in the area that we are responsible for. Homes are being put into forested areas which makes them vulnerable to forest fires.

City of Hill City

We have added six new RV sites to our campground. This increases the number of people in the park.

City of McGregor

The Riverwood Clinic is constructing a new larger facility, which is an area that was flooded in 2012. Our community has an increasing percentage of elderly and other vulnerable populations. McGregor High School is expanding it footprint and there is a plan to construct a 28-unit affordable housing apartment building in the city.

City of Palisade

Approximately 10 new permanent mobile homes are coming into the city due to Enbridge, as well as other workers temporarily sheltering in RVs. There is no established shelter from storms for these people in mobile homes and RV's so they are at higher risk during severe storms.

In the development of local mitigation actions, all jurisdictions were encouraged to consider hazard mitigation strategies that would reduce risk in relation to future development, such as the update of local comprehensive plans, enforcement of ordinances, and incorporation of infrastructure improvements to reduce local vulnerabilities (see Appendix J).

The Aitkin County emergency management director will work to keep the jurisdictions covered by the MHMP engaged and informed during the plan's cycle. By keeping jurisdictional leaders involved in the monitoring, evaluation, and update of the MHMP, they will keep their local governments aware of the hazards that face their communities and how to mitigate those hazards through planning and project implementation.

Section 6 of this plan further outlines the process by which Aitkin County will address the maintenance of this plan, including monitoring, evaluation, and update of the plan, as well as implementation and continued public involvement.

4.3 Shared Vulnerabilities for all Hazards

Vulnerability is the susceptibility to physical injury, harm, damage, or economic loss (FEMA, 2006). While a community's vulnerability may vary by hazard, certain population groups and structures are vulnerable to multiple hazard types. This section highlights the population groups and structures which may not be as resilient to natural hazards or deserve special attention.

4.3.1 POPULATION VULNERABILITY

The degree to which a person is vulnerable to the impacts of a hazard depends on how well they can react before, during, and after a hazardous event. The Centers for Disease Control and Prevention (CDC) Agency for Toxic Substances & Disease Registry (ATSDR) defines social vulnerability as "...the resilience of communities when confronted by external stresses on human health, stresses such as natural or human-caused disasters, or disease outbreaks" (ATSDR, 2020). Exacerbating these stressors are the increasing number of extreme weather events attributed to Minnesota's changing climate (MPCA, 2018c).

The ATSDR created the CDC Social Vulnerability Index (SVI) to help identify vulnerable communities who may need support in preparing for hazardous or recovering from disaster. The CDC SVI is created at the census tract level using American Community Survey (ACS) 5-year data. Table 15 displays how the ACS data is organized into 15 social variables, which are further grouped into four themes (ATSDR, 2020).

Census tracts within Minnesota were ranked and given a percentile value from 0 to 1, with higher values indicating greater vulnerability compared to other census tracts in the state. Theme-specific percentile rankings were generated by summing the percentiles of the variables comprising each theme and ordering the summed percentiles. For more information about the SVI methodology, visit https://svi.cdc.gov. A map of each SVI theme for Aitkin County is displayed in Figure 11.

Table 15. Social Vulnerability Index (SVI) Variables

		Below poverty
	Gariana annia atatua	Unemployed
	Socioeconomic status	Income
		No high school diploma
ity		Aged 65 or older
ıbil	Household composition & disability	Aged 17 or younger
ıera	Household composition & disability	Older than age 5 with a disability
Overall vulnerability		Single-parent households
	Minority status 0 language	Minority
rera	Minority status & language	Speaks English "less than well"
Ő		Multi-unit structures
		Mobile homes
	Housing type & transportation	Crowding
		No vehicle
		Group quarters

SOURCE: (ATSDR, 2020)

Household Comp. & Disability SVI Socioeconomic Status SVI Housing Type & Transportation SVI Minority Status & Language SVI Vulnerability Lowest Highest

Figure 11. 2018 SVI Themes, ranked by percentile against all MN census tracts, Aitkin County

SOURCE: (ATSDR, 2020)

4.3.2 STRUCTURE VULNERABILITY

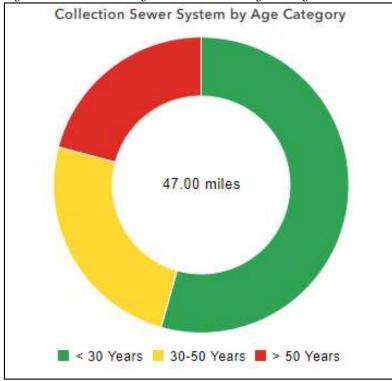
Aitkin County-specific building data was sourced from the county tax databases and parcel polygon data. The total estimated building exposure for the county is shown in Table 16. Aitkin County's infrastructure systems are outlined in Section 3.7. Estimates of county infrastructure economic exposure were not available. Because infrastructure protects public health and provides vital services to residents and Minnesota's infrastructure is aging, the State Auditor's office hosts an online infrastructure stress visualization tool to assist with planning and to provide transparency about the condition of water and wastewater infrastructure systems in the state. This tool indicates that 21% of the 47 miles of sewer collection system in the county are over 50 years old. 54% of the collection system is less than 30 years old (OSA, 2020). A chart of this age distribution is located in Figure 12.

Table 16. Aitkin County total building exposure

General Occupancy	County Total Buildings	County Building and Contents Value
Residential	25,461	\$1,851,954,554
Commercial	539	\$120,917,528
Other	4,356	\$490,188,520
Totals	30,356	\$2,463,060,602

Source: AITKIN COUNTY

Figure 12. Aitkin County sewer collection system ages



SOURCE: (OSA, 2020)

Table 17. Mobile home park locations

Name	Address	City
Beulah's Mobile Home Park	219 S Maddy St	McGregor
Boyd's Park	20 S Mable St	McGregor
Castaway's Resort	32360 215th Lane	Isle
Elkhorn Resort Association	20429 326th Avenue	Isle
Lakeshore Summer Breeze	27461 435th Avenue	Aitkin
Ole's Resort	53037 223Rd Place	McGregor
Riverdale Mobile Home Park	410 Riverdale Drive	Aitkin
Sather's Trailer Court	47952 State Hwy 65	McGregor

Source: AITKIN COUNTY

Water and wastewater utilities provide critical services to the community that need to remain in operation for as long as possible and return to operation quickly following a severe storm situation. Undersized sewer systems can experience capacity issues following heavy rain events, resulting in overflows containing stormwater as well as untreated human and industrial waste, toxic substances, debris, and other pollutants.

Mobile homes, and therefore the people living in mobile homes, are particularly vulnerable to natural hazards. Evidence show that mobile home parks are disproportionately located in more hazard-prone regions, often undesirable or marginal lands like floodplains, and that mobile homes are particularly vulnerable to high-wind events (Rumbach et al., 2020). While Minnesota law requires most mobile home parks to have storm shelters, many do not (Sepic, 2017). Given the vulnerability of mobile home residents it is important to have a general understanding of where mobile homes are located. Licensed mobile home park locations in Aitkin County are identified in Table 17.

4.3.3 ELECTRIC UTILITIES AND OUTAGES

Loss of power is often the result of a natural hazard. According to the U.S. Department of Energy (2016), the leading cause of electric outages in Minnesota from 2008 through 2013 was severe weather/falling trees (see Figure 13), affecting nearly half a million Minnesotans annually. While the power grid is vulnerable to weather-induced power outages, certain communities are more vulnerable to prolonged outages, which are dependent on a few factors, including the type of severe weather event (the grid being the most vulnerable to high wind events); the transmission and distribution infrastructure (overhead infrastructure being the most exposed and therefore susceptible to failure); and the density of the community (a greater number of customers affected by power outage in rural areas than in urban areas) (Mukherjee et al., 2018).

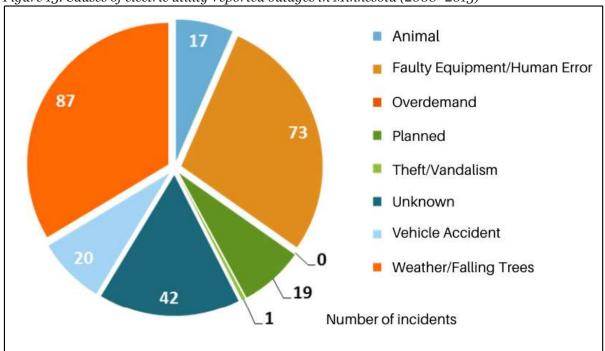


Figure 13. Causes of electric utility-reported outages in Minnesota (2008–2013)

SOURCE: (US DOE, 2016)

Because of the significance of physical and economic disruption power outages can cause, HSEM prepared a Rural Electric Annex to the MN State All Hazard Mitigation Plan to make rural electric cooperatives eligible for FEMA's Hazard Mitigation Assistance (HMA) Program. Thirty-five percent of Minnesota's population, and 85% of Minnesota's territory, is covered by electrical distribution cooperatives. Flooding, windstorms, tornado, and winter storms are the greatest risks to electric utilities.

The damage to rural electric cooperative infrastructure has often been how Minnesota reaches economic damage thresholds for federal disaster declaration (MN HSEM, 2014). Rural electric cooperatives are vulnerable and could very well be becoming more vulnerable without mitigation against future damages.

In a survey to Minnesota electric cooperatives, 59% of respondents indicated that flooding has adversely affected or damaged critical infrastructure in their service area. Debris may damage the infrastructure immediately or decrease the life of the utility poles, which may be more easily damage in a subsequent event. Eighty-three percent of respondents indicated that windstorms have a high potential to impact electrical infrastructure, and nearly all (94%) cooperatives surveyed indicated that they have been affected or damaged by a tornado in the past. The most vulnerable electrical structures to wind events are overhead utility lines and the poles (MN HSEM, 2014).

Winter storms are another very common risk to electric utilities and pose additional challenges that put crews and equipment in danger. Difficult winter driving conditions put crews on icy or wind-drifted and snowy roads. And in the case of ice storms and extreme cold winter temps, crews are subject to harsh conditions when repairing utility lines.

Power outages can also make vulnerable populations more vulnerable. Outages may force the closure of businesses, schools, and government offices. State and local governments may experience economic challenges related to large-scale power outages when they must open shelter facilities and to care for people displaced from their homes. Public agencies are frequently responsible for debris removal and clean-up in the event of a storm or tornado. Police and fire personnel may be responsible for securing downed power lines if they are dangerous to nearby residents.

People recovering from illnesses, the elderly, children, and low-income populations may be more vulnerable to the impacts of power outages than others. Those who are dependent on power for their health care needs become immediately at risk. Homeowners may see food spoiled, move to a temporary shelter, experience flooding inside of their homes, or have their pipes burst all due to the lack of power (MN HSEM, 2014).

Section 5 – Hazard Profiles

As part of the risk assessment, each natural hazard that poses risk to the county was independently reviewed for its past hazard history, relationship to future trends, and jurisdictional vulnerability to future events. A capabilities assessment was also conducted by the county to review the plans and programs that are in place or that are lacking (program gaps or deficiencies) for the implementation of mitigation efforts, as related to each natural hazard. An assessment was also conducted for local jurisdictions to identify the plans, policies, programs, staff, and funding they have in place in order to incorporate mitigation into other planning mechanisms (see Section 7.1 and Appendix C).

Hazards that were deemed by Aitkin County to be of moderate to high risk are addressed in the following hazard profiles. Hazards that were determined to be of low risk or without substantive mitigation actions to address them are not required to be included (see Section 4.1.1).

5.1 Flooding

Flooding is the most significant and costly natural hazard in Minnesota. The type, magnitude, and severity of flooding are functions of the amount and distribution of precipitation over a given area, the rate at which precipitation infiltrates the ground, the geometry and hydrology of the catchment, and flow dynamics and conditions in and along the river channel.

Flash floods generally occur in the upper parts of drainage basins and are typically characterized by periods of intense rainfall over a short duration. These floods arise with very little warning and often result in locally intense damage, and sometimes loss of life, due to the high energy of the flowing water. Flood waters can snap trees, topple buildings, and easily move large boulders or other structures. Six inches of rushing water can upend a person; another 18 inches might carry off a car. Generally, flash floods cause damage over relatively localized areas, but they can be quite severe. Flash floods in urban areas involve the overflow of storm drain systems and can be the result of inadequate drainage combined with heavy rainfall or rapid snowmelt. Flash floods can occur at any time of the year in Minnesota, but they are most common in the spring and summer.

Riverine floods refer to floods on large rivers at locations with large upstream catchments. Riverine floods are typically associated with precipitation events that are of relatively long duration and occur over large areas. Flooding on small tributary streams may be limited, but the contribution of increased runoff may result in a large flood downstream. The lag time between precipitation and the flood peak is much longer for riverine floods than for flash floods, generally providing ample warning for people to move to safe locations and, to some extent, secure some property against damage.

During the past several decades, agencies have used the "100-year floodplain" as the design standard for projects funded by the federal government. However, today floods of that magnitude are occurring far more often than once per century (Natural Resources Defence Council, 2015). In recognition of increasing

risks, in January of 2015 the President issued an executive order that updates flood protection standards that guide federally funded projects in or near floodplains or along coastlines. These new standards require federally-funded projects to either build two feet above the 100-year flood elevation for standard projects and three feet above for critical buildings like hospitals and evacuation centers; or build to the 500-year flood elevation (The White House, 2015).

Please note, the term "100-year floodplain" has largely been discontinued in favor of "1-percent annual chance floodplain."

5.1.1 HISTORY OF FLOODING

Minnesota experienced the wettest year on record in 2019, when heavy precipitation between February and May contributed to flooding throughout the state. Aitkin County did not receive a disaster declaration for flooding in 2019, but was included in DR-4390 for flooding in June 2018. In September 2019, over half the state received at least two times the normal amount of precipitation. The average precipitation for the year statewide was 35.51 inches, with many stations of over 50 years of observations breaking their own precipitation records. (MN DNR, 2019). Aitkin County had 34.04 inches of rain in 2019. This total was the 13th highest total on record in the county. The record precipitation in Aitkin County was 37.36 inches in 1953.

Table 18 below lists all Aitkin County's historical flood events from 2015–2021 as recorded by the NCEI. Three deaths have been reported as a result of flooding, along with one injury. No deaths or injuries have been reported as a result of flooding. The cumulative property damage estimate is greater than \$7.2 million dollars (CEMHS, 2019).

The USGS provides information from gauge locations at points along various rivers across the United States. There are two active USGS gauging stations located in Aitkin County according to the National Water Information System. Table 19 shows data on its highest-recorded annual peaks (gauge heights). Six discontinued gauge stations in the county are not included. If the two highest peaks for the last five years are not in the top five peaks on record, they are included with their overall risk indicated in parentheses (USGS, 2021).

Table 18. Flood events in Aitkin County, January 2015-August 2021

Date	Event Type	Description
8/14/2020	Flash Flood	A strong cold front pushed across Minnesota the evening of the 14th and led to the development of a line of storms ahead of the front. Heavy rainfall led to areas of flash flooding, mainly along the western Iron Range.
9/30/2019	Flash Flood	State Highway 18 was closed at the Snake River due to water over the road.
6/30/2019	Flash Flood	Morrison Brook's banks overflowed its banks and flooded a portion of West County Line Road.
7/12/2018	Flash Flood	Three flash flood events were reported on this day. Water covered the road at the intersection of State Highway 200 and U.S. Highway 169 in Hill City. State Highway 18 had water over it and several side roads across the county completely washed out. Water was also reported flowing into the first floor of an elderly care facility.

Date	Event Type	Description
6/17/2018	Flash Flood	Two flash flood events were reported on this day. Water covered Aitkin County Trunk 2 about four miles East of Malmo. A vehicle passing through the road hydroplaned into the ditch. State Highway 47 washed out south of the town of Glen.
5/24/2018	Flash Flood	Local law enforcement reported water over Birch Street and 170th Street north of McGrath.
7/11/2016	Flash Flood	Five flash flood events were reported on this day. The roadway at the intersection of 344th Street and County Road 12 was covered by 10-12 inches of water and a car was pushed by the water. County Road 4 near the bridge over Rice River and the intersection of Country Road 5 and Rice River Crossing also had 10-12 inches of water. Additional roads reported to be underwater included Country Road 13 and Highway 27 and 65.

SOURCE: (NCEI, 2021)

Table 19. Historical peak streamflow data (in feet) for USGS gauging stations

USGS 05221020			<u> </u>	USGS 05227500			
Willow River near Palisade			I	Mississippi River near Aitkin			
Aikin, MN 1972-2020				Aitkin, MN 1888–2020			
(1)	6/28/2012	17.43	(1)	5/20/1950	22.49		
(2)	4/25/1979	17.25	(2)	June 1888	19.80		
(3)	5/1/1975	17.21	(3)	7/6/1905	19.50		
(4)	4/22/1982	16.70	(4)	Apr. 29, 1916	19.30		
(5)	4/12/2001	16.28	(5)	Jun. 9, 1944	18.80		
(12)	4/8/2020	14.86	(31)	Apr. 11, 2020	15.38		
(14)	7/18/2018	14.58	(39)	Jul. 15, 2016	14.17		

SOURCE: (USGS, 2021)

5.1.2 PROBABILITY OF OCCURRENCE

A potential risk and economic loss analysis for a 1-percent annual chance flood was performed using a FEMA tool, Hazus for ArcGIS. Existing 1-percent annual chance depth grids were used for regions of the county where available. The remainder of the 1-percent annual chance depth grids were developed from the Digital Flood Insurance Rate Map (DFIRM) flood boundary. Where no boundary data were available, the hydraulics and hydrology model in Hazus was used to generate a 1-percent annual chance flood boundary with a 10-meter horizontal resolution Digital Elevation Model (DEM). The resulting Hazus 1% annual chance floodplain output is shown in Figure 14.

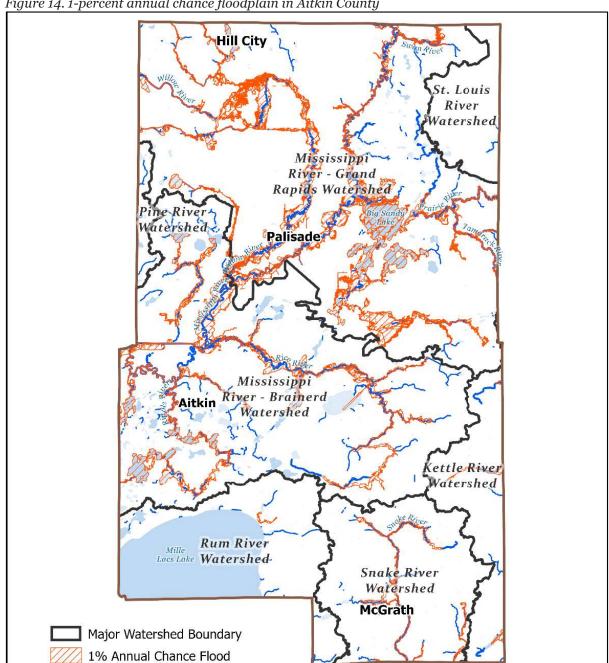


Figure 14. 1-percent annual chance floodplain in Aitkin County

SOURCE: (MN DNR, 2021A)

5.1.3 CLIMATE CHANGE PROJECTIONS

As Minnesota's climate changes, the quantity and character of precipitation is changing. Average precipitation has increased in the Midwest since 1900, with more increases in recent years. According to the Minnesota DNR State Climatology Office "Since 2000, Minnesota has seen a significant uptick in devastating, large-area extreme rainstorms as well. Rains that historically would have been in the 98th percentile annually (the largest 2%) have become more common. Climate projections indicate these big rains will continue increasing into the future."

The Midwest has seen a 45% increase in very heavy precipitation (defined as the heaviest 1% of all daily events) from 1958 to 2011 (*National Climate Assessment Development Advisory Committee*, 2013). This precipitation change has led to amplified magnitudes of flooding. Increased precipitation may also show seasonal changes, trending toward wetter springs and drier summers and falls. An example of a recent year with this character was 2012, when many MN counties were eligible for federal disaster assistance for drought, while others were eligible for flooding, and 7 were eligible for both in the same year (Seeley M., 2013). In 2007, 24 Minnesota counties received drought designation, while 7 counties were declared flood disasters. In 2012, 55 Minnesota counties received federal drought designation at the same time 11 counties declared flood emergencies. In addition, the yearly frequency of the largest storms – those with 3 inches or more of rainfall in a single day – has more than doubled in just over 50 years. In the past decade, such dramatic rains have increased by more than 7% (MN EQB, 2014).

Southeastern Minnesota has experienced three 1000-year floods in the past decade: in September 2004, August 2007, and September 2010 (Meador, 2013). The 2004 flood occurred when parts of south- central Minnesota received over 8 inches of precipitation. Faribault and Freeborn counties received over 10 inches in 36 hours. The deluge led to numerous reports of stream flooding, urban flooding, mudslides, and road closures (MN DNR, 2004). During the 2007 event, 15.10 inches fell in 24 hours in Houston County, the largest 24-hour rainfall total ever recorded by an official National Weather Service reporting location. The previous Minnesota record was 10.84 inches in 1972. The resulting flooding from the 2007 rainfall caused 7 fatalities (MN DNR, 2007a). In September 2010, a storm on the 22-23rd resulted in more than 6 inches of rain falling over 5,000 square miles in southern Minnesota. Rainfall totals of more than 8 inches were reported in portions of 10 counties. The heavy rain, falling on soils already sodden from a wet summer, led to numerous reports of major rural and urban flooding. For many monitoring locations in southern Minnesota, stream discharge resulting from the deluge was the highest ever seen during an autumn flood (Minnesota Climatology Working Group, 2010).

Only one of the five wettest years in Aitkin County occurred in the last two decades (MN DNR, 2020a).

5.1.4 VULNERABILITY

Potential economic loss estimates were based on Aitkin County-specific building data. Aitkin County provided parcel tax and spatial databases that included building valuations, occupancy class, square footage, year built, and number of stories. The quality of the inventory is the limiting factor to a Hazus

Table 20. Summary of 1-percent annual chance flood loss estimation by occupancy class

General Occupancy	County Total Buildings	County Building and Contents Value	Floodplain Total Buildings	Floodplain Building + Contents Value	Buildings with damage	Building + Contents Loss
Residential	25,461	\$1,851,954,554	644	\$44,886,750	205	\$3,430,239
Commercial	539	\$120,917,528	12	\$1,601,800	11	\$313,395
Other	4,356	\$490,188,520	89	\$10,871,000	21	\$607,542
Totals	30,356	\$2,463,060,602	745	\$57,359,550	237	\$4,351,177

SOURCE: (FEMA, 2021C)

flood model loss estimation. Best practices were used to use local data and assumptions were made to populate missing (but required) values.

Hazus reports the percent damage of each building in the floodplain, defined by the centroid of each building footprint. After formatting the tax and spatial data, 30,356 points were input to Hazus to represent buildings with a total estimated building plus contents value of \$2.5 billion. Approximately 84% of the buildings (and 75% of the building value) are associated with residential housing. The estimated loss by occupancy class for the entire county is shown in Table 20.

The distinction between building attributes within a parcel was not known, so the maximum percent damage to a building in that parcel was used to calculate loss estimates for the entire parcel. The sum of all the losses in each census block were aggregated for the purposes of visualizing the loss. An overview of these results with the percent damage of buildings is shown in Figure 15. Please note: It is possible for a building location to report no loss even if it is in the flood boundary. For example, if the water depth is minimal relative to 1st-floor height, there may be 0% damage.

Hazus Critical Infrastructure Loss Analysis

Critical facilities and infrastructure are vital to the public and their incapacitation or destruction would have a significant negative impact on the community. These facilities and infrastructure were identified in Section 3.7 and verified by Aitkin County.

Buildings identified as essential facilities for the Hazus flood analysis include hospitals, police and fire stations, and schools (often used as shelters). Loss of essential facilities are vulnerable to structural failure, extensive water damage, and loss of facility functionality during a flood, thereby negatively impacting the communities relying on these facilities' services. Fortunately, none of Aitkin County's essential facilities included in the Hazus flood analysis are located within the 1% annual chance floodplain.

Extreme precipitation resulting in flooding may overwhelm water infrastructure, disrupt transportation and cause other damage. Particularly where stormwater, sewage and water treatment infrastructure is aging or undersized for more intense rainstorms, extreme rain events may pose both health and ecological risks in addition to costly damage (USGCRP, 2018).

It is important to identify any critical infrastructure within the 1% annual chance floodplain, given the higher risk of the facility or infrastructure being incapacitated or destroyed during a flood. In Aitkin

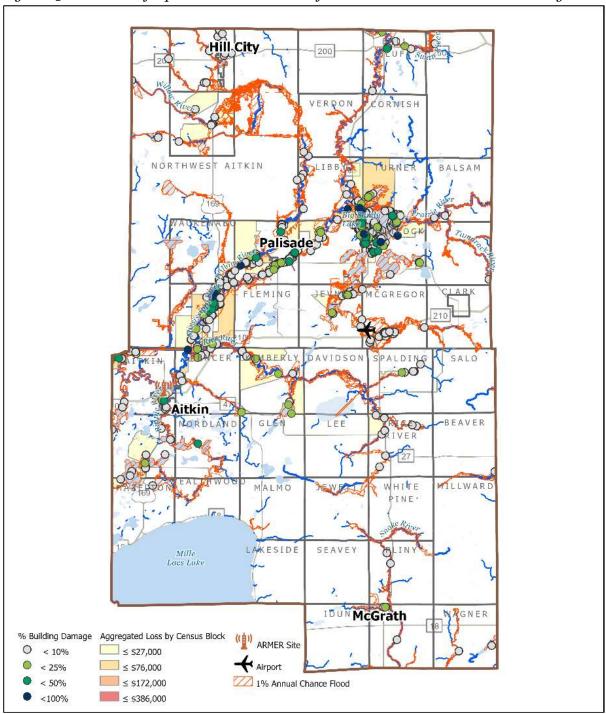


Figure 15. Overview of 1-percent annual chance flood loss estimation in Aitkin County

Source: (FEMA, 2021c)

County, one airport and one ARMER site were found to be at risk in the 1% annual chance flood. This airport is the Isedor Iverson Airport located in McGregor and the ARMER site is located in the City of Aitkin. Both are mapped in Figure 16. No other information is available.

Community Vulnerability

Potential economic losses were estimated by Census County Subdivision. The City of Aitkin and the Townships of Libby, Morrison, and Shamrock were identified as having a significant estimated loss. All jurisdictions with buildings identified in the 1% annual chance flood zone are listed in Table 21. The City of Aitkin as well as the communities of Shamrock, Morrison, McGregor, and Libby Townships are shown in Figure 16. In addition to the aggregate economic loss by census block, the point locations used to represent flooded buildings are symbolized by percent damage to the building.

Table 21. 1-percent annual chance flood building-related loss estimates by jurisdiction

Jurisdiction	Count of Buildings in	Estimated Building and
(county subdivision)	Floodplain	Contents Loss*
Aitkin City	7	\$479,156
Aitkin Township	7	\$108,584
Ball Bluff Township	5	\$28,402
Farm Island Township	8	\$70,836
Hazelton Township	1	\$2,550
Jevne Township	11	\$124,764
Kimberly Township	5	\$87,086
Libby Township	8	\$482,206
Logan Township	17	\$240,634
Macville Township	4	\$4,662
McGrath City	2	\$5,407
McGregor Township	1	\$137
Morrison Township	53	\$564,390
Nordland Township	1	\$73,790
Palisade City	5	\$42,581
Rice River Township	3	\$9,684
Shamrock Township	47	\$1,281,186
Spalding Township	1	\$1,231
Spencer Township	8	\$261,451
Turner Township	17	\$148,513
Waukenabo Township	3	\$10,996
Workman Township	23	\$322,928
Total	2 37	\$4,351,177

^{*}It is possible for a building to register no loss even if it is in the flood boundary. For example, if the water depth is minimal relative to 1st-floor height, there may be 0% damage.

SOURCE: (FEMA, 2021C)

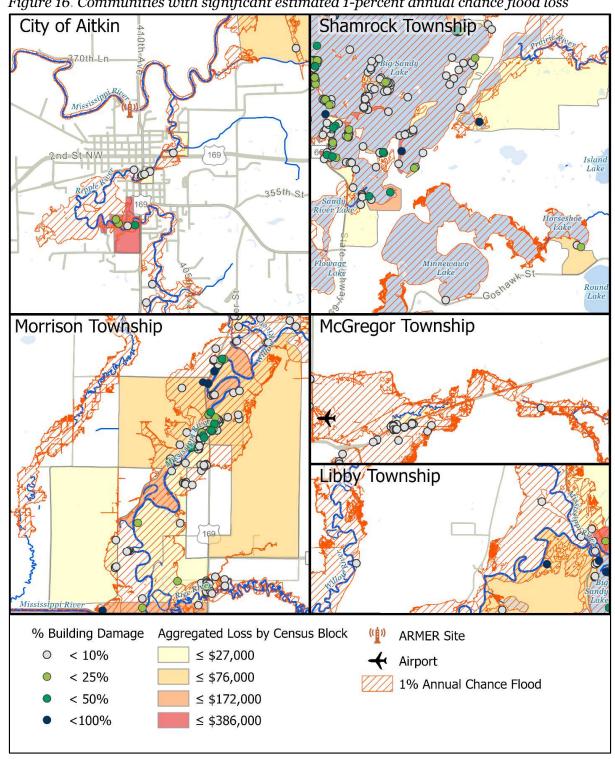


Figure 16. Communities with significant estimated 1-percent annual chance flood loss

Source: (FEMA, 2021C)

The status of jurisdictional participation in the National Flood Insurance Program and any repetitive loss properties are detailed in Section 6.1.1. National Flood Insurance Program (NFIP).

5.1.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management identified existing program gaps and deficiencies that make its citizens more vulnerable to flooding. These gaps should be addressed with new mitigation efforts to reduce vulnerability, outlined as follows:

Surface Water Run-off Management: Controlling runoff from various sources continues to be a challenge and priority to control what runs downstream.

Increasing Culverts and Raising Roads: Some roads, bridges, and culverts within Aitkin County continue to need improvements as they are impacted by annual high rain events. The county needs funding assistance to improve roads and culverts that experience repetitive flooding.

Road Infrastructure: Continued culvert replacement to prevent road flooding is a strain on our smaller townships that have limited funding for road infrastructure.

Shoreline Stabilization: Continued efforts are needed to stabilize vulnerable shoreline that is eroding due to high rain events and wave action.

5.2 Wildfires

A wildfire is an uncontrolled fire spreading through vegetative fuels, posing danger and destruction to property. Minnesota experienced an average of 1,400 wildfires each year between 1985 and June 2021 (MN DNR, 2021d). Wildfires occur throughout the spring, summer and fall; however, most wildfires in Minnesota take place in March, April and May. During this period, much of the existing vegetation has been killed due to winter temperatures and is dead, brown and combustible. Also, there is little green vegetation to serve as a barrier for a moving wildfire.

Wildfires can occur in undeveloped areas and spread to urban areas where structures and other human developments are more concentrated. While some wildfires start by natural causes, humans cause over 80% of wildfires in the United States (Balch et al., 2017). In Minnesota, 98% of wildfires are caused by humans, with most fires starting from burning debris (38%), miscellaneous (25%), arson and incendiary devices (14%), and equipment (12%). A smaller number of wildfires start from campfires (5%), railroads (3%), and smoking (2%). As a natural hazard, a wildfire is often the direct result of a lightning strike; however, lightning strikes account for less than 2% of Minnesota's wildfires (MN DNR, 2021c). The dangers from wildfire include the destruction of timber, property, wildlife, and injury or loss of life to people in the affected area or using the area for recreational facilities.

The frequency and behavior of wildfires varies within the state. Vegetation (fuel), topography, and weather contribute significantly to these variations. Vegetative material is the main source of fuel for a

wildfire. Fuel is classified by its size, moisture content, and volume. Fuel with low moisture content ignites easier than wet fuel. Areas with a greater volume of fuel will produce more intense fires with larger flames that are difficult to extinguish. Topography affects the movement of air and fire over the ground surface. The slope and shape of terrain can change the rate of speed at which the fire travels. Weather variables such as temperature, humidity, wind, and lightning affects the probability, severity, and duration of wildfires. Extreme weather, such as high temperatures and low humidity, can lead to extreme wildfire activity. In contrast, cooling and higher humidity often signals reduced wildfire occurrence and easier containment (ENR-ITI-Lands Resource Centre, 2021).

Fire severity refers to the effects of a fire on the environment, typically focusing on the loss of vegetation both above ground and below ground but also including soil impacts. A fire classified as "low severity" has limited effect on overstory trees (< 30% mortality), understory vegetation, and soils. A fire producing variable, moderate effects on trees and vegetation (<80% killed) and/or moderate soil exposure would be classified as "moderate severity." High-severity fires have great losses to vegetation and result in extensive mineral soil exposure (Northwest Fire Science Consortium, 2018).

The most severe fires result in greatly reduced soil productivity, slow vegetative recovery (5-10 years) and great potential for soil erosion. Severe burning wildfires typically occur in areas with steep north or east slopes and dense timber.

Homes threatened by wildfire are primarily those located in the zone known as the wildland—urban interface (WUI). This is the zone where homes and subdivisions have been located in wildland areas where natural wildfires can have an impact. As people settled in the country and began clearing natural lands for development, new, artificially caused wildfires emerged, and their frequency and level of destruction increased. While wildfires are necessary for healthy ecosystems, they burn whatever fuel is in their path, whether vegetation or buildings.

The topographic features of the building site, defensible space around the structures, and fire resistant materials in the building envelope (siding and roofing) are the major factors that contribute to whether or not a home will survive a wildfire. One of the most common causes of a home being damaged or destroyed is due to radiant heat. In a wildfire, radiant heat is the heat given off by burning vegetation. The high temperatures of some wildfires can cause the deck, siding or roof of a home to ignite, because the fire was too near the home (FEMA, 2004a).

5.2.1 HISTORY OF WILDFIRES

The Minnesota DNR responded to 2,226 wildfires in Aitkin County between 1985 and June 2021. These include fires not only on state lands, but also rural private lands for which there is not another agency with primary responsibility. Wildfires that are not included in this data are those that occur on federal lands and those that are responded to by local fire departments. The overwhelming majority of these fires were started by humans and burned a total area of nearly 60,000 acres. The largest wildfire occurred just south of Minnewawa on April 2, 2015 due to a "miscellaneous" reason and scorched over 3,000 acres of

land. (MN DNR, 2021d). Wildfire damage to property and crops have cost the county more than \$42,000 since 1960 (CEMHS, 2019).

Aitkin County experienced 223 wildfires since its last Hazard Mitigation Plan in 2015. A map of these fires is shown in Figure 17. Although the wildfires occurred throughout the county, a higher concentration of wildfires occurred near the towns of Aitkin, Minnewawa, and Bennettville.

When examining wildfires, it is important to consider the locations of peatlands as peat fires can burn for days, weeks, months, or even years—smoldering underground and re-emerging in another location, making them very difficult to extinguish (MPR, 2012). Peat is partially decayed plant matter found in ancient bogs and swamps. Minnesota has approximately 6 million acres of peatland, the highest total acreage in the contiguous United States (MN DNR, 2007b). Peat fires can smolder during winter months beneath the snow, surfacing again in the spring to burn above ground. Peat ignites when its moisture content is low, and then it supports combustion rather than flame. Once started, combustion is persistent because peat contains oxygen and needs little or no outside oxygen to continue burning. Peat's insulating qualities mean the fire loses little heat. As the peat dries it becomes water repellent. These factors result in long-lasting fires that require extensive operations to extinguish.

According to the MN DNR, about 28% of the county's surface areas contains peat (367,376 acres) (2007b).

5.2.2 PROBABILITY OF OCCURRENCE

To determine the probability of future wildfires Aitkin County, records of previous wildfire events in were summed and divided by the dataset's period of record, resulting in the annual relative frequency of wildfires during the period of record. Based on Minnesota DNR records, from January 1985 to June 10, 2021, the relative frequency of wildfire events in the county is 61 per year (MN DNR, 2021e). This relative frequency can be used to infer the probability of these events occurring in the future.

5.2.3 CLIMATE CHANGE PROJECTIONS

Temperatures are predicted to rise in the state, which could lead to more extreme heat events and associated wildfire risks. As Minnesota's climate changes, weather fluctuations between drought and extreme rain events and increasing temperatures will result in changes to forest composition and/or distribution. These fluctuations can lead to dry conditions that may cause increased fire risk in both grassland and forest environments.

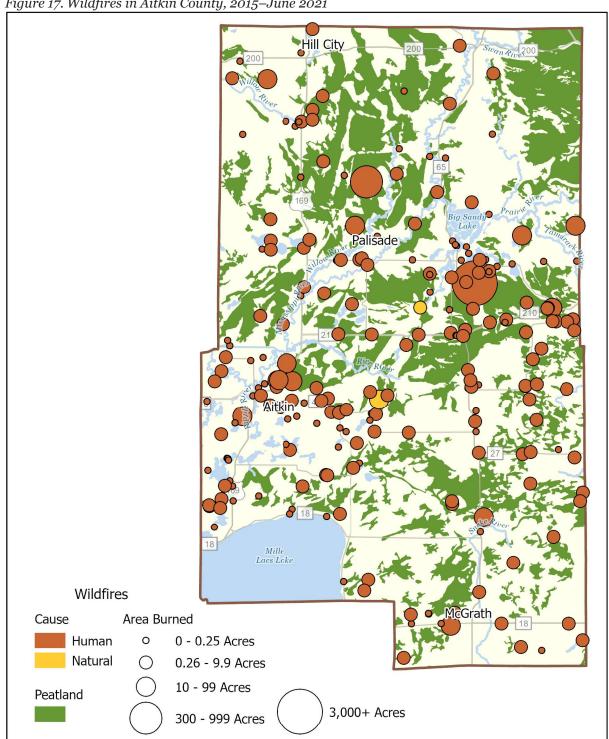


Figure 17. Wildfires in Aitkin County, 2015–June 2021

SOURCE: (MN DNR, 2021C)

5.2.4 VULNERABILITY

Wildfires jeopardize the built environment, health, and wellbeing of individuals living near its fuel source. Some residents are more vulnerable to air quality conditions of wildfire, including children, older adults, and those with respiratory issues (AirNow, 2021). The Household Composition & Disability SVI map is

made up of these population groups and should be reviewed to better understand the vulnerability of each jurisdiction.

Structures located in areas near undeveloped wildland are vulnerable to wildfires. The SILVIS Lab at University of Wisconsin–Madison created a dataset documenting the changes of the Wildland–Urban Interface (WUI) in the United States from 1990 to 2010. Radeloff et al. (2018) define WUI as the area where structures and other human development meet or intermingle with wildland vegetation. With the increase of development in metropolitan fringes and rural areas, the WUI is growing. The expansion of the WUI in recent decades has significant implications for wildfire management and impact as it creates an environment in which fire can readily move between structural and vegetation fuels. Its expansion has increased the likelihood that wildfires will threaten structures and people (Radeloff et al., 2018).

There are two main types of WUI: intermix and interface. Intermix WUI are areas where housing and wildland vegetation intermingle; interface WUI are areas where housing are adjacent to wildland vegetation (Radeloff et al., 2018). Table 22 shows the change of total WUI (intermix and interface) in the county from 1990 to 2010, and the percent of the county's land, housing, and population located in the WUI area. Figure 18 displays the WUI areas in Aitkin County.

Communities within the county with more than 50% of land classified as WUI include, Aitkin City, Farm Island Township, Hill City, McGrath City, McGregor City, and Palisade City. These communities along with others in WUI areas are more vulnerable to wildfires.

Table 22. Wildland-Urban Interface (WUI), Aitkin County, 1990-2010

	Total WUI	Total WUI	Total WUI	% Change
	1990	2000	2010	(1990–2010)
Land Area	5.8%	6.1%	7.1%	+22.4%
Housing	74.9%	72.9%	74.1%	- 1.1%
Population	61.1%	63.2%	67.6%	+10.6%

SOURCE: (RADELOFF ET AL., 2019)

Palisade McGregor Aitkin Farm Island Township Interface Intermix ■ McGrath ■ No Housing (veg) Very Low Housing Density (veg) Very Low - Low Housing Density, or Agriculture (no veg) Medium - High Housing Density (no veg) Water Community Land > 50% WUI

Figure 18. Wildland-Urban Interface (WUI), Aitkin County, 2010

SOURCE: (RADELOFF ET AL., 2017)

5.2.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management identified existing program gaps and deficiencies that make its citizens more vulnerable to wildfire. These gaps should be addressed with new mitigation efforts to reduce vulnerability, outlined as follows:

Community Wildfire Protection Plan (CWPP): The MN DNR notes that Aitkin County has a past CWPP equivalent in place developed, although a copy cannot be located. Aitkin County should work with MN DNR Firewise to see how we need to address this either through an updated CWPP equivalent or a full CWPP plan.

Rural Water Access for Wildland Firefighting: There are areas within Aitkin County where improved water access may be needed for fighting wildfire. These areas are rural and not supported by a municipal water source. Local fire departments have the opportunity to work with the MN DNR to evaluate additional dry hydrant/well access projects.

Public Awareness: Raising public awareness of wildfire safety and dangerous conditions is an on-going effort of Aitkin County Emergency Management, local fire departments, and the MN DNR.

Firewise Assessments: Level-1 Firewise assessments should be encouraged for homeowners living in rural, woodland high-risk wildfire areas. MN DNR Firewise should be sought for local guidance or assistance in conducting assessments.

5.3 Windstorms

A windstorm is a wind strong enough to cause damage to trees and buildings and typically exceeding 34 mph (Pielke, 2012). Windstorm events encompass a variety of types of damaging wind including: straight-line wind (a thunderstorm wind not associated with rotation), downdraft (a small-scale column of air that rapidly sinks toward the ground), downburst (a strong downdraft with an outrush of damaging winds at or near the earth's surface), macroburst and microburst (outward bursts of strong winds at or near the earth's surface, differentiated by the diameter of the burst), gustnado (a small whirlwind originating from the ground and not connected to any cloud-based rotation), and derecho (a widespread, long-lived windstorm associated with a band of rapidly moving showers or thunderstorms) (NSSL, 2020). Tornadoes are categorized as separate hazards from windstorms.

The National Weather Service (2018) classifies windstorm events using the following criteria:

- **Strong wind events** are non-convective winds gusting less than 50 knots (58 mph), or sustained winds less than 35 knots (40 mph), resulting in a fatality, injury, or damage.
- **High wind events** are sustained non-convective winds of 35 knots (40 mph) or greater lasting for one hour or longer or gusts of 50 knots (58 mph) or greater for any duration.

• **Thunderstorm wind events** are winds arising from convection (occurring within 30 minutes of lightning being observed or detected), with speeds of at least 50 knots (58 mph), or lower wind speeds producing a fatality, injury, or damage. Downbursts and gustnadoes are classified as thunderstorm windstorm events.

When wind speeds are not able to be measured, they are estimated. Part of the process to determine wind speed is observing the damage. Table 23 lists the expected effects of increasing wind speeds.

Table 23. Effects of Wind Speed	Table 23.	Effects	of Wind	Speed
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Wind Speed	Effects
26-38 knots (30-44 mph)	Trees are in motion. Lightweight loose objects (e.g., lawn furniture) may be tossed or toppled.
39–49 knots (45–57 mph)	Large trees bend; twigs, small limbs, and a few larger dead or weak branches may break. Old/weak structures may sustain minor damage. Buildings under construction may be damaged. A few loose shingles may be removed from houses. Carports may be uplifted and minor cosmetic damage may occur to mobile homes.
50-64 knots (58-74 mph)	Large limbs break; shallow rooted trees may be pushed over. Semi-trucks may be overturned. Significant damage to old/weak structures may occur. Shingles and awnings may be removed from houses, damage may occur to chimneys and antennas, mobile homes and carports may incur minor structural damage, and large billboard signs may be toppled.
65–77 knots (75–89 mph)	Trees experience widespread damage, including breaking and uprooting. Mobile homes may incur significant structural damage, including being pushed off foundations or overturned. Roofs may be partially peeled off industrial/commercial/warehouse buildings. Some minor roof damage may occur to homes. Weak structures (e.g., farm buildings, airplane hangars) may be severely damaged.
78+ knots (90+ mph)	Many large trees may be broken and uprooted. Mobile homes may be severely damaged; moderate roof damage to homes may occur, roofs may be partially peeled off homes and buildings. Moving automobiles may be pushed off dry roads. Barns and sheds may be demolished.

SOURCE: (NWS, 2018)

5.3.1 HISTORY

Aitkin County experienced 1 strong wind and 135 thunderstorm wind events between 1955 and February 2020, with wind speeds up to 78 knots (90 mph) (NCEI, 2021). The majority of these windstorms occurred in June (25%), July (36%), and August (25%). Wind damage to property and crops have cost the county more than \$3.1 million since 1960 (CEMHS, 2019). Table 24 lists the wind-related events that have occurred in the county since 2015. Thunderstorm Wind events, from 1955–2019, in Aitkin County, are shown in Figure 19.

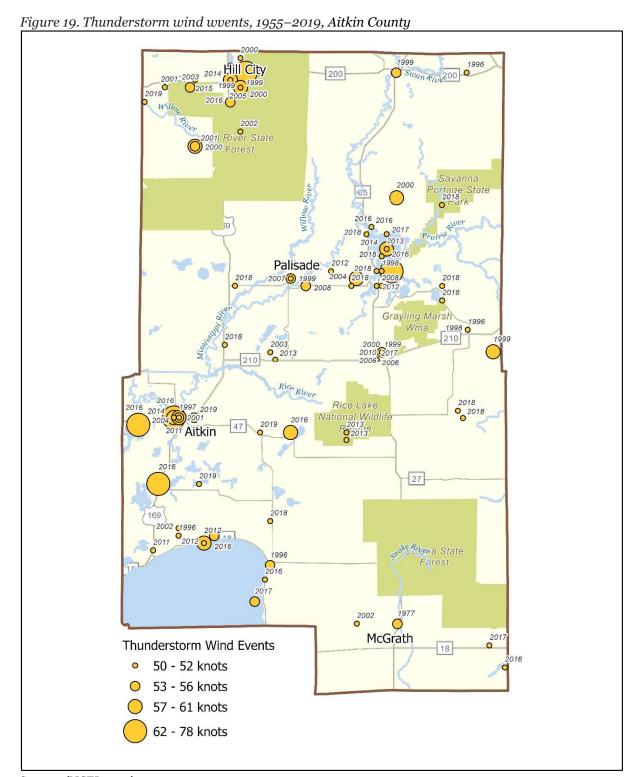
Table 24. Wind Events in Aitkin County, January 2015–August 2021

Date	Event Type	Description
8/14/2020 (3 events)	Thunderstorm wind	The bulk of the severe reports consisted of damaging wind gusts that brought down numerous trees, leading to damage at homes and other buildings. Multiple docks were flipped over near Giese by the strong winds.
8/7/2020	Thunderstorm wind	A complex of storms moved across north central and northeastern Minnesota during the afternoon and evening hours of the 7th. A few small trees were downed along the shoreline of Big Sandy Lake.
7/18/2020	Thunderstorm wind	The storms developed over north-central Minnesota during the afternoon and pushed eastward through northwest Wisconsin during the evening hours producing damaging winds and large hail as they pushed across the area. Several large trees were downed a few miles west of McGregor.
7/17/2020	Thunderstorm wind	Damaging winds from the storm complex led to downed trees and minor structural damage in parts of north-central and northeast Minnesota. A small portion of a barn roof was torn off during the storm.
7/16/2020	Thunderstorm wind	Storm cells produced large hail and damaging winds that damaged a few boat docks. Multiple docks were blown into Farm Island Lake. Trees 8-12 inches in diameter were also uprooted or snapped.
7/8/2020	Thunderstorm wind	A potent storm system brought multiple rounds of severe storms to the Northland starting during the early morning hours of the 8th. A tree was downed by the storm.
7/14/2019	Thunderstorm wind	A warm front lifted across central and northeastern Minnesota. Thunderstorms developed along the front with a few of the storms producing marginally severe hail and damaging wind gusts. Power lines and trees were downed within the city of Aitkin due to the storm.
6/30/2019 (4 events)	Thunderstorm wind	A complex of thunderstorms formed overnight in northern Minnesota then tracked southeast. Large hail and wind damage were observed with this system. Uprooted trees were blown over the road. One 12-inch diameter tree was uprooted.
9/14/2018	Thunderstorm wind	Storms developed along a stationary boundary. One supercell storm produced large hail before a line of storms formed and brought damaging winds and heavy rain. A tree was blown down across State Highway 47 at mile marker 110.

Date	Event Type	Description
9/2/2018 (2 events)	Thunderstorm wind	A line of storms moved east across Northern Minnesota ahead of a cold front. One part of the line took on bow echo characteristics and led to a concentrated area of wind and hail before weakening. A pickup truck was lifted by the wind and landed on top of another truck in Aitkin. Several trees fell in the winds, the largest being about 2 feet in diameter.
8/31/2018 (6 events)	Thunderstorm wind	Large hail and strong winds were seen with storms as they moved through the region. The winds knocked down a tree onto a trailer home, collapsing the roof and crushing and fracturing the leg of a 10-year-old girl trapped inside. A pontoon boat and a boat lift were flipped upside down on Big Sandy Lake.
7/8/2018	Thunderstorm wind	A cold front moved across the area. Rich, low-level moisture was in place ahead of the front and numerous strong to severe storms developed. A large tree was blown down within Aitkin County.
6/28/2018 (2 events)	Thunderstorm wind	Two supercells developed along a warm front and traveled to the east-southeast along the front. Large hail and numerous trees were reported down, including trees in Savanna Portage State Park and along County Road 13 east of Lawler.
6/17/2018 (2 events)	Thunderstorm wind	This was the final day of a three-day severe weather event across the Northland. Severe storms brought heavy rainfall over areas that had seen dramatic flash flooding the previous night, causing riverbanks to overflow. Winds downed trees along Highway 65 from Libby to McGregor. One hundred feet of a barn roof was ripped off by the wind.
5/29/2018	Thunderstorm wind	Storms during the afternoon and evening hours produced numerous reports of downed trees and power lines due to small hail and strong winds. Power outages from this event lasted for over a day in some areas following the storms.
9/22/2017	Thunderstorm wind	Severe thunderstorms developed across portions of northeast Minnesota. Several large trees were knocked down along with nearby powerlines. A cupola was blown off of a bar and hail as large as an inch fell.
9/20/2017	Thunderstorm wind	A series of severe thunderstorms moved across portions of northeast Minnesota. The storms caused very gusty winds that led to numerous reports of blown down trees blocking roads and bringing down nearby power lines. A few buildings were also damaged by downed trees.

Date	Event Type	Description
7/21/2017 (2 events)	Thunderstorm wind	Two storm systems, one to the north and the other to the south, moved across most of northeastern Minnesota. The northern storm caused hail and sporadic wind damage. The southern storm system evolved into a bow echo that produced damaging winds. Several tress were downed.
7/17/2017	Thunderstorm wind	Severe thunderstorms moved across portions of northeast Minnesota. The storms produced winds which downed many trees. A few trees were blown down on the north end of Big Sandy Lake.
7/6/2017	Thunderstorm wind	Severe thunderstorms that rolled across Minnesota produced damaging winds and hail across multiple counties. Several trees were blown down, damaging power lines and in one case, a home.
8/4/2016	Thunderstorm wind	Storms moved into northeast Minnesota overnight. Bow echoes within the cluster of storms caused damaging winds and many trees and power lines were blown down. The Aitkin County Sheriff Department reported some trees were blown down along Minnesota State Highway 18 on the north side of Mille Lacs Lake.
7/24/2016	Thunderstorm wind	Thunderstorms dropped hail and brought damaging winds to isolated parts of northeast Minnesota during the early morning. A few tress were blown down.
7/21/2016 (7 events)	Thunderstorm wind	A cluster of thunderstorms developed and merged into a couple of main bow echoes that quickly sped across northeast and central Minnesota. The multi-bow storm caused extensive damage across the region from widespread straight-line winds of 60 to 80 mph. Power was out to 75,000 customers and many homes were without power for as long as a week. Numerous trees were downed and structural damage occurred to a home.
6/26/2016	Thunderstorm wind	Thunderstorms ended after bringing strong winds to parts of northeast Minnesota on June 25th, first in the morning, and then again in the afternoon. Several large trees were blown down.
6/25/2016 (3 events)	Thunderstorm wind	Thunderstorms brought strong winds to parts of northeast Minnesota on June 25th, first in the morning and then again in the afternoon. Many large trees were blown down, including some trees 2–3 feet in diameter.
7/5/2015	Thunderstorm wind	Thunderstorms dropped large hail and caused damaging winds across parts of northeast Minnesota. A tree was downed on Highway 200.

Source: (NCEI, 2021)



Source: (NCEI, 2021)

5.3.2 PROBABILITY OF OCCURRENCE

To determine the probability of future wind-related events in Aitkin County, records of previous wind-related events (strong wind, high wind, and thunderstorm wind) in the county were examined for the period of record. Because the datasets have two different periods of record, separate relative frequencies were calculated. Thunderstorm wind events, which date back to January of 1955, have a relative frequency of 2.0 per year. The relative frequency of all wind-related events since January of 1996 is 5.4 per year. These relative frequencies can be used to infer the probability of these events occurring in the future.

5.3.3 CLIMATE CHANGE PROJECTIONS

Lack of high-quality long-term data sets make assessment of changes in wind speeds very difficult (Kunkel et al., 2013). One analysis generally found no evidence of significant changes in wind speed distribution (Pryor et al., 2009), while other models suggest an increase in the frequency and intensity of severe thunderstorms as the climate changes (USGCRP, 2018). The lack of confidence in the projections of future changes in thunderstorms, tornadoes, hail, and windstorms, is in part due to the difficulty in monitoring and modeling these small-scale and short-lived events (USGCRP, 2018). Since the impact of more frequent or intense storms can be significant, climate scientists are actively researching the connections between climate change and severe weather.

5.3.4 VULNERABILITY

The likelihood of a windstorm event does not vary geographically within the county, but the vulnerability of its citizens is not constant. Vulnerability to injury from all kinds of windstorms decreases with adequate warnings, warning time, and sheltering in a reinforced structure. Therefore, residents living in rural areas, living alone or with limited mobility, or living in a manufactured home may be more vulnerable. Also at a higher risk to windstorms are those who work outdoors or do not have permanent housing.

Structural vulnerability depends in part upon the construction of a building and its infrastructure. Residents of mobile homes are more vulnerable to fatality or injury from windstorms because mobile homes are not able to withstand high winds as well as other structural dwellings, with 50 mph (43.4 knots) being the lower limit of wind speeds capable of damaging mobile homes (AMS, 2004). Steps to mitigate these vulnerabilities have been taken by the state, requiring all mobile home parks to provide an evacuation plan, and parks with at least 10 homes licensed after March 1, 1988 to provide a storm shelter (MDH, 2020). However, mobile home parks often do not provide the required storm shelters (Sepic, 2017). Building codes have also changed to improve the strength of new mobile home construction but there are still many older mobile homes in use that do not meet these new standards.

The Housing Type & Transportation and Household Composition & Disability themes of the Social Vulnerability Index (Table 15) include variables that can be helpful in identifying where these vulnerable citizens are concentrated within the county.

5.3.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management identified existing program gaps and deficiencies that make its citizens more vulnerable to windstorms. These gaps should be addressed with new mitigation efforts to reduce vulnerability, outlined as follows:

Above-Ground Power Lines: A majority of the power lines in the county are above ground and subject to damage from high winds and falling tree limbs from severe summer storms. Power lines that are above ground are susceptible to coming down during severe storm events, resulting in power outages.

Warning Sirens: Upgrades are needed for the warning siren at Big Sandy Lake. The cities of Palisade and McGrath do not have warning sirens, which should be installed.

Public Education: Continued public education needs to be conducted during tornado season to inform the public on what a tornado watch/warning is and what to do when warning sirens are activated. Aitkin County Emergency Management and local cities need to continue to encourage all residents to be ready for long-term power outages resulting from severe spring and summer storm events such as thunderstorms or straight-line winds.

County Parks & Campgrounds: There are many campground facilities throughout Aitkin County. The Savanna Portage State Park is the only park with a designated shelter. The other campground facilities are vulnerable to severe weather events such as high winds and damaging hail and thunderstorms. These campgrounds do not have an official storm shelter or tornado safe room.

Additional Storm Shelters/Tornado Safe Rooms: Additional storm shelter areas in the county would enhance public safety. Construction or retrofit of facilities should be evaluated for areas where there are vulnerable populations, such as municipal campgrounds, mobile home parks, and schools.

5.4 Tornadoes

Tornadoes are violently rotating columns of air formed in a thunderstorm when the rotating air of an updraft meets the spinning air of a downdraft, which has turned upward (UCAR, 2021). With wind speeds reaching up to 300 mph, they are one of nature's most violent storms (Hogeback, 2020).

Since 2007, tornado strength in the United States has been measured using the Enhanced Fujita Scale (EF Scale), which replaced the original Fujita Scale (F Scale). The EF Scale is a set of estimated wind speeds based on damage (Table 25). The EF Scale incorporates the use of 28 damage indicators to derive estimated wind speeds and assign an associated EF rating (NWS, 2020; SPC, 2007). The EF Scale is used extensively by the NWS to investigate tornadoes, and by engineers in correlating damage to buildings and building techniques.

Table 25. Enhanced Fujita Scale (EF Scale)

EF Rating	3-second gust (mph)
0	65-85
1	86–110
2	111–135
3	136–165
4	166–200
5	Over 200

SOURCE: (NWS, 2020)

5.4.1 HISTORY

From 1950 through 2018, 1,940 tornadoes occurred throughout Minnesota, resulting in 99 deaths and nearly 2,000 injuries (MN DNR, 2019b). While most tornadoes in Minnesota are minor (Fo/EFo) and occur without injury, a number of the tornadic events will forever be remembered due to the sheer death and destruction they left behind. Examples include the St. Cloud/Sauk Rapids tornado of 1886, which claimed 72 lives, injured 213, and remains the deadliest tornado in the State's history. May 6, 1965 is another day often remembered for tragedy when six tornadoes ravaged the Twin Cities, killing 13, injuring 683, and causing \$51 million in damages (without inflation adjustment) (MN DNR, 2019b).

The peak months of tornadic activity in Minnesota are June and July respectively (MN DNR, 2019b). According to the NCEI Storm Events Database, 19 tornadoes have occurred in Aitkin County between 1950 and August 2021, resulting in one death, three injuries (NCEI, 2021), and an estimated 2.4–3.6 million U.S. dollars in property and crop damage (CEMHS, 2019; NCEI, 2021). The strength of these tornadoes ranged from Fo/EFo to F4. The costliest of these tornadoes occurred on August 6, 1969, when an F4 tornado headed northeast across Aikin County damaging property, utilities, and stumpage, and costing over two million dollars. The deadliest tornado occurred later that same day, when an F3 tornado in Aitkin County killed one person in a cabin and injured three others (NCEI, 2021). Table 26 lists the tornadoes that have occurred in Aitkin County since 2015.

Table 26. Tornadoes in Aitkin County, January 2015-August 2021

Date	Start Location	End Location	Magnitude	Description
8/14/20	Lawler	Lawler	EF1	The tornado tracked north-northeast across 360th Street breaking and uprooting trees. The tornado then tracked over a homestead on Kestrel Avenue approximately 1 mile north of Lawler doing damage to trees, an electrical pole, and some outbuildings.

Date	Start Location	End Location	Magnitude	Description
8/26/2019	Bennettville	Bennettville	EFo	A waterspout developed over the northwestern arm of Farm Island Lake. It damaged docks, flipped boats, and caused tree damage. The waterspout then traveled through a grove of trees and dissipated before reaching US Highway 169.
6/19/2016	Jacobson	Jacobson	EF1	A tornado developed in far northern Aitkin County, tracked northeast and continued into Itasca County. The tornado destroyed several pole barns, lofted a roof from a house, and destroyed the house. It also caused surrounding tree damage.

SOURCE: (NCEI, 2021)

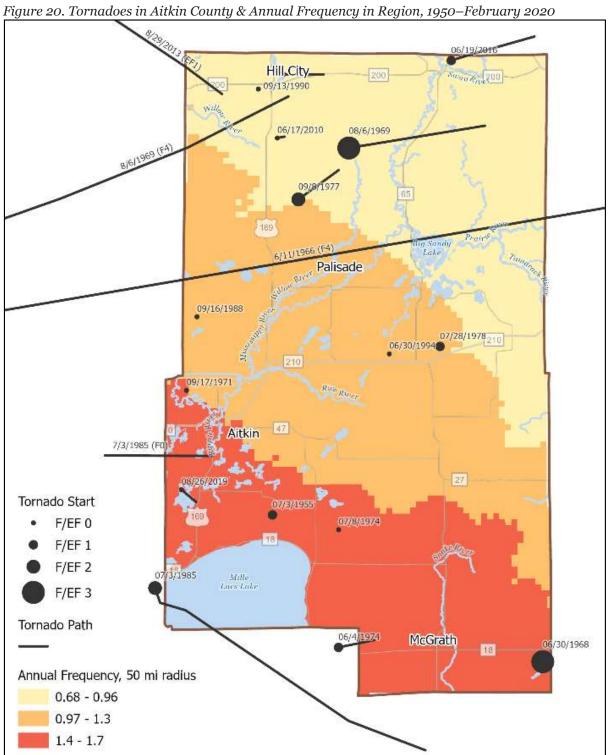
5.4.2 PROBABILITY OF OCCURRENCE

Estimating the probability of future tornadoes in Aitkin County was done using two methods. The first method summed the total number of tornadoes which either touched down in or traveled through the county. This sum was divided by the number of years tornado data was recorded, resulting in the annual relative frequency of tornado occurrences in the county. Based on records in the NCEI Storm Events Database through February 2020, the relative frequency of tornados in Aitkin County is 0.3 per year. (These 18 tornadic events occurred in 16 of the 70 years on record.)

Because tornadoes often cross county lines and tornadic frequency may be better understood using events from a larger area, a second method was used to describe the frequency of tornadic events within a 50-mile radius of any location within the county. A grid of 900 square-meter cells was used to cover Minnesota and 50 miles beyond its border. From the center of each cell, the number of tornadoes that intersected a 50-mile radius was counted. Each cell was assigned a total tornado line count, which was then divided by the tornado dataset's period of record, resulting in the annual relative frequency of tornadoes occurring within 50 miles of the respective cell.

For any location in Aitkin County, there was an annual frequency of 0.7–1.7 tornadoes within a 50-mile radius. The historical frequency was only slightly higher in the southeast than the northwest. These relative frequencies can be used to infer the probability of these events occurring in the future.

Figure 20 shows the tornadoes that have occurred in Aitkin County from 1950 through February 2020, as well as the annual frequency of tornado occurrences within 50 miles of any location within the county.



Sources: (MN DNR, 2019b; NCEI, 2021)

5.4.3 CLIMATE CHANGE PROJECTIONS

Tornadoes and other severe convective storms are the largest annual aggregated risk peril to the insurance industry, costing the U.S. \$11.23 billion (in 2016 USD) each year (Gunturi & Tippett, 2017). Although recent research has yielded insights into the connections between global warming and the factors that cause tornados and severe thunderstorms, such as atmospheric instability and increases in wind speed with altitude (Del Genio et al., 2007), these relationships remain mostly unexplored, largely because of the challenges in observing thunderstorms and tornadoes and simulating them with computer models (USGCRP, 2018).

According to Brooks et al., while the mean annual number of tornadoes in the U.S. has remained relatively consistent the variability of tornado occurrences has increased since the 1970s. According to the data, tornadoes have been occurring in larger clusters since the 1970's, with an overall decrease in the number of tornado days but an increase in the number of tornadoes that occur on tornado days (2014).

An increase in the variability of tornado occurrences affects the timing of the start of the tornado season (Brooks et al., 2014). The earliest reported tornado in Minnesota occurred on March 6, 2017, when two tornadoes touched down in southern Minnesota. These tornadoes occurred 12 days earlier and 115 miles further north than the previous record from 1968. According to State Meteorologist Paul Huttner, "Those records fit seasonally and geographically with longer term climate trends pushing weather events earlier in the season and further northward" (Huttner, 2017).

5.4.4 VULNERABILITY

The likelihood of a tornado does not vary significantly across geography within Aitkin County; however, certain populations may be more vulnerable and less resilient to the impacts of a tornado. In general, tornado casualties decrease when people receive adequate warnings with sufficient time to seek shelter in a reinforced structure. Because communication is critical before a tornadic event, certain citizens may be more negatively impacted by a tornado, including those living in rural areas, individuals with limited mobility, people who do not live near an outdoor warning siren, or those who do not use social media.

As discussed in section 4.4.3, people living in mobile homes are particularly vulnerable to tornadoes due to them not being able to withstand the strong winds produced by a tornado. According to NOAA's Storm Prediction Center, from 1985–2002, 49% of tornado fatalities in the United States were people who remained within or attempted to flee from mobile homes (AMS, 2004). While Minnesota law requires most mobile home parks to have storm shelters, many do not (Sepic, 2017). Section 4.3 lists the mobile home parks in Aitkin County.

Some of the vulnerability factors mentioned above are included as social factors in the Housing Type & Transportation and Household Composition & Disability themed SVI map (Table 15) and may provide general insight on where in the county these vulnerable communities are located.

5.4.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management identified existing program gaps and deficiencies that make its citizens more vulnerable to tornadoes. These gaps should be addressed with new mitigation efforts to reduce vulnerability, outlined as follows:

Above-Ground Power Lines: A majority of the power lines in the county are above ground and subject to damage from high winds and falling tree limbs from severe summer storms. Power lines that are above ground are susceptible to coming down during severe storm events, resulting in power outages.

Warning Sirens: Upgrades are needed for the warning siren at Big Sandy Lake. The cities of Palisade and McGrath do not have warning sirens, which should be installed.

Public Education: Continued public education needs to be conducted during tornado season to inform the public on what a tornado watch/warning is and what to do when warning sirens are activated. Aitkin County Emergency Management and local cities need to continue to encourage all residents to be ready for long-term power outages resulting from severe spring and summer storm events such as thunderstorms or straight-line winds.

County Parks & Campgrounds: There are many campground facilities throughout Aitkin County. The Savanna Portage State Park is the only park with a designated shelter. The other campground facilities are vulnerable to severe weather events such as high winds and damaging hail and thunderstorms. These campgrounds do not have an official storm shelter or tornado safe room.

Additional Storm Shelters/Tornado Safe Rooms: Additional storm shelter areas in the county would enhance public safety. Construction or retrofit of facilities should be evaluated for areas where there are vulnerable populations, such as municipal campgrounds, mobile home parks, and schools.

5.5 Winter Storms

Winter storms encompass a number of winter weather events which the National Weather Service (NWS) organizes into the following categories: blizzard, heavy snow, ice storm, lake-effect snow, sleet, winter storm, and winter weather. Winter weather events are common in Minnesota and can be costly. According to the Spatial Hazard Events and Losses Database (SHELDUS), winter weather events in Minnesota have cost more than \$957 million dollars in damages since 1960 (CEMHS, 2019).

The definitions below are used to record winter storm events in the NWS Storm Events Database (NCEI, 2021).

Heavy Snow: A heavy snow event is characterized as snow accumulation meeting or exceeding the local/regional defined 12 and/or 24-hour warning criteria. Depending on the area, this could mean 4–8

inches or more of snow in 12 hours or less, or 6–10 inches or more of snow in 24 hours or less. Heavy snow events may cause structural damage due to the weight of snow accumulation.

Ice Storm: An ice storm is characterized by a buildup of ice (typically $\frac{1}{4} - \frac{1}{2}$ inch or more) due to freezing rain or other type of precipitation; however, even small accumulations of ice on sidewalks, streets, and highways may create extremely hazards conditions to motorists and pedestrians. The terms "freezing rain" and "freezing drizzle" warn the public that a coating of ice is expected on the ground and other exposed surfaces.

Heavy accumulations of ice can bring down electrical wires, telephone lines, and even trees, telephone poles, and communication towers. The NWS notes that over 85% of ice storm-related deaths are the result of traffic accidents.

Winter Storm & Winter Weather: A winter storm is an event that has more than one winter hazard (i.e., heavy snow and blowing snow; snow and ice; snow and sleet; sleet and ice; or snow, sleet, and ice) and meets or exceeds locally/regionally defined 12- and/or 24-hour warning criteria for at least one of the precipitation elements. Winter weather is a winter precipitation event that causes a death, injury, or a significant impact to commerce or transportation, but does not meet locally/regionally defined warning criteria. The winter weather classification is also used to document out-of-season occurrences of winter precipitation.

5.5.1 HISTORY

Aitkin County has an active history of winter-related weather events. Since 1996, the county experienced 87 events, including heavy snows, ice storms, winter storms, and winter weather (NCEI, 2021). Winter weather events in the county have cost over \$8.3 million dollars in property and crop damages since 1960 (CEMHS, 2019). Table 27 provides descriptions from the NCEI Storm Events Database of the events that have occurred since 2015, the year the county's MHMP was last updated.

Table 27. Winter-related weather events in Aitkin County, Jan. 2015-August 2021

Date	Type	Description
3/10/2021	Heavy Snow	The combination of wet, heavy snow clumping to trees and the enhanced winds lead to several downed trees and power outages throughout the area. Snowfall totals were highest across the Arrowhead, ranging from 6 to 11 inches
12/23/2020 (2 events)	Heavy Snow	A strong area of low pressure brought heavy snowfall and very strong winds to much of the Northland starting on Wednesday the 23rd and lingering into Thursday the 24th. The eastern half of northeast Minnesota received 6 to 10 inches of snowfall with lesser amounts further west in addition to the widespread blizzard conditions.

Date	Type	Description
11/20/2020 (2 events)	Heavy Snow	Snowfall reports of 6 to 10 inches were recorded from the Brainerd Lakes area into the Twin Ports and Minnesota Arrowhead with a total of 11 inches recorded near Motley. Much of the snow fell in about 6 hours and started during the evening commute in many locations. Some of the Brainerd area received just over 6 inches of snow in as little as 3 hours during this event.
1/17/2020	Heavy Snow	Widespread snowfall totals of six to ten inches were seen across the region. Winds gusted to 30–40 mph on January 18, leading to areas of blowing and drifting snow and reduced visibility.
12/28/2019	Heavy Snow/Winter Storm	Snow was moderate to heavy before warmer air changed it to rain, freezing rain, and sleet. Snowfall totals of six to eight inches were seen around the region. Additionally, a layer of ice coated snow-covered roads leading to dangerous driving conditions.
12/8/2019	Heavy Snow	Snow began the evening of December 8, and snowfall totals of six to eight inches were common across much of northeastern Minnesota.
12/1/2019	Heavy Snow	Widespread snowfall totals ranged from six to twelve inches.
11/27/2019	Heavy Snow	Heavy snowfall spread across northeastern Minnesota, causing six to ten inches of snow to fall across the area. The highest amounts were seen downwind of Lake Superior due to lake enhancement.
4/11/2019	Heavy Snow	A long snowfall event mixed with occasional periods of freezing rain. Strong winds of over 40 mph led to numerous reports of downed trees and power lines with multiple vehicle crashes due to the snow and freezing rain. Snowfall amounts ranged from three to nine inches, with up to thirteen inches in some areas.
3/9/2019	Heavy Snow	Snowfall amounts were recorded of up to six to nine inches across the affected area.
2/6/2019	Heavy Snow	Multiple waves of heavy snowfall occurred along with areas of freezing drizzle in between waves. A snowfall report of nine inches was reported in the county from the township of McGregor.
1/21/2019	Heavy Snow	Snowfall totals over the county ended up ranging from eight to ten inches.
12/30/2018	Heavy Snow	A moderate to heavy snowfall laid down three to six inches of snow with isolated areas reaching up to seven inches.
12/26/2018	Heavy Snow	A prolonged three-day snowfall created snowfall amounts of eight to sixteen inches, with some areas reaching up to twenty-two inches.
3/30/2018	Heavy Snow	Snowfall amounts ranged from six to nearly thirteen inches.
3/26/2018	Heavy Snow	Snowfall in this area ranged from six to eight inches.

Date	Type	Description
3/5/2018	Heavy Snow	An extremely slow-moving storm system with multiple periods of snow affected portions of east-central Minnesota. Winds were also very strong with gusts well into the 40-mph range. The winds caused sporadic power outages. Snowfall ranged from seven to thirteen inches.
2/24/2018	Heavy Snow	Heavy snow fell overnight and was reported as reaching 7.2 inches north of the city of McGregor. Snowfall and strong winds made travel conditions difficult.
2/22/2018	Heavy Snow	Snowfall measured 6.1 inches seven miles north of McGregor and snow reached up to eleven inches in northern Aitkin County.
12/25/2016	Winter Storm	The storm caused a mixture of freezing rain, sleet, and snow, as well as strong winds. The Aitkin County Sheriff's office reported widespread tree damage across the county due to the storm; felled trees contributed to power outages.
11/17/2016	Heavy Snow	Heavy snow brought a wide variety of snowfall depths ranging from eight to twenty-five inches across the region.

SOURCE: (NCEI, 2021)

5.5.2 PROBABILITY OF OCCURRENCE

To determine the probability of future winter-related storm events in Aitkin County, records of previous events (heavy snows, ice storms, winter storms, and winter weather) were summed and divided by the dataset's period of record, resulting in the annual relative frequency of winter-related storms. Based on records in the NCEI Storm Events Database through February 2020, the relative frequency of winter-related storm events in Aitkin County is 3.4 per year. This relative frequency can be used to infer the probability of these events occurring in the future.

5.5.3 CLIMATE CHANGE PROJECTIONS

Historically, winter storms have had a large impact on public safety in Minnesota. This will continue, with a possible increase in annual total snowfall (MPCA, 2018c). Winter weather is often the cause of power outages. Pressures on energy use, reduced reliability of services, potential outages, and the potential rise in household costs for energy are major climate change risks to public health.

According to the 2015 Minnesota Weather Almanac, seasonal snowfall records across the state from 1890–2000 showed that 41 of 46 climate stations recorded an increase in average annual snowfall, by as much as 10 inches. Climate change is causing the atmosphere to hold more moisture, that drives heavier than normal precipitation. Higher snowfall levels can result in greater runoff potential during spring snowmelt, and many watersheds in Minnesota have shown more consistent measures of high-volume flows during spring, often at or above flood stage (Seeley, 2015).

5.5.4 VULNERABILITY

Transportation systems, electrical distribution systems, and structures are vulnerable to winter storms throughout the county. These events do not vary geographically within the county; all jurisdictions are equally vulnerable. While it is highly likely these events will continue occurring annually, the amount of snow and ice and number of winter-related storm events to occur each year are unpredictable. Citizens living in climates such as these must always be prepared for situations that put their lives or property at risk. It is important that extra consideration be given to the vulnerable populations and energy infrastructure discussed in section 4.3.

5.5.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management identified existing program gaps and deficiencies that make its citizens more vulnerable to winter storms. These gaps should be addressed with new mitigation efforts to reduce vulnerability, outlined as follows:

Above-Ground Power Lines: A majority of the power lines in Aitkin County are above ground and subject to damage from ice storms, wind, and falling tree limbs. Power lines that are above ground are susceptible to coming down during severe winter storm events, resulting in power outages.

Public Education: Aitkin County Emergency Management and local cities need to continue to encourage all residents to be ready for long-term power outages or to be snowed in during dangerous winter events such as ice storms and blizzards.

Backup Power: Not all of designated shelter facilities in the county have generator back-up power to provide the ability to care for residents if displaced during a severe winter event coupled with an extended power outage.

5.6 Dam & Levee Failure

A dam is a structure built across a stream or river to retain water for the purpose of storage or control. The difference in elevation between the water at the top and bottom of a dam creates large amounts of potential energy, allowing the chance for failure. Dam failures are typically not caused by storm events. In the U.S., 36% of dam failures are due to mechanical reasons (malfunctioning gates, conduits, or values); 34% are from hydraulic failures (overtopping due to inadequate spillway design, debris blockage, or the settlement of the dam crest), and 30% are caused by structural failures (foundation defects from settlement and slope instability) (FEMA, 2013b).

A levee is a structure, typically made from embankments of dirt, built along the edges of rivers and streams to contain, control, or divert the flow of water to prevent flooding of the adjacent land (Lotha et al., 2019). Common causes for levees failing include foundation failure, surface erosion, or overtopping (USACE, 2010). Both dam and levee failures can be devastating, resulting in loss of human life, downstream property damage, lifeline disruption (transportation routes and utility lines required to

maintain or protect life), and environmental damage. Dams and levees require constant monitoring and regular maintenance to ensure their integrity.

Dam & Levee Regulation: There are over 1,150 dams in Minnesota (MN DNR, 2020b). Dam regulatory authorities vary between state and federal agencies based mainly on the ownership of the dam.

The MN DNR Dam Safety Program has the mission of protecting the life and safety of people by ensuring that dams are safe. Minnesota's Dam Safety Program sets minimum standards for dams and regulates the design, construction, operation, repair, and removal of both privately and publicly (non-federal) owned dams (MN DNR, 2020b). The federal government is responsible for regulating and maintaining dam safety of federally owned dams. No single agency regulates all federally owned dams. 42% of federal dams are owned and managed by the U.S. Army Corp of Engineers (USACE) and the Bureau of Reclamation. The remaining federal dams are owned and managed by other federal agencies, including the Fish and Wildlife Service, Forest Service, the Department of Defense, and the Bureau of Indiana Affairs, among others (Normand, 2019). The Federal Energy Regulatory Commission (FERC) Dam Safety Program is the largest dam safety program in the U.S. The Commission works with federal and state agencies to ensure and promote dam safety of over 3,000 dams across the U.S. The Commission inspects projects on an unscheduled basis to investigate potential dam safety problems; complaints about constructing and operating a project; safety concerns related to natural disasters; and issues concerning compliance with the term and conditions of a license (FERC, 2020).

Similar to dams, levees in Minnesota are regulated by various federal, state, and local entities that own the levee. While the USACE has designed and built many of the levees in the U.S., the USACE is only responsible for the maintenance of federally owned levees in the USACE system.

There are 29 dams and two levees in Aitkin. Table 28 provides the properties of each dam and Table 29 lists the properties of each levee in the county.

Table 28. Dams in Aitkin County

Dam Name	Owner	Waterway	Type	Heig ht (ft)	Length (ft)	Purpose	Condition	Rating
Ecklund	MNDNR- Fisheries and Wildlife	Ripple River - OS	Earth	10'	600'	Fish and Wildlife Pond	Poor	No Data
Little Pine Lake	MNDNR- Waters	Ripple River	Gravity	3.8'	37'	Recreation	Fair	Class III
Ripple Lake	MNDNR	Ripple River	Gravity	6'	35'	Recreation	Poor	Class III
Hanging Kettle Lake	MNDNR	Ripple River	Gravity	5.7'	40'	Recreation	Poor	Class III
Hill Lake	MNDNR- Wildlife	Hill River	Gravity	6'	24'	Recreation	Satisfactory	Class III
Waukenabo Lake	MNDNR	Little Willow River - TR	Gravity	6.2'	41'	Recreation	Fair	Class III

Dam Name	Owner	Waterway	Type	Heig ht (ft)	Length (ft)	Purpose	Condition	Rating
Moose- Willow 1	MNDNR- Wildlife	Moose River	Earth	12'	500'	Fish and Wildlife Pond	Satisfactory	Class III
Moose- Willow 2	MNDNR- Wildlife	Willow River	Earth	10'	1500'	Fish and Wildlife Pond	Poor	No Data
Washburn Lake	MNDNR- Wildlife	Willow River - TR	Gravity	6'	35'	Other	Poor	Class III
Digman Pond	Gerlach, Rodney	Pine River - OS	Earth	8'	10'	Fish and Wildlife Pond	No Data	No Data
Sandy Lake	USCOE	Sandy River	Earth	14'	109'	Flood Control	Not Rated	Class III
Rice River Pool	USF&W	Rice River	Gravity	9'	95'	Fish and Wildlife Pond	No Data	Class III
Rice Lake Pool	USF&W	Rice River - TR	Gravity, Earth	8'	24'	Fish and Wildlife Pond	No Data	Class III
Little Willow River	MNDNR- Wildlife	Little Willow River	Other	6'	56'	Fish and Wildlife Pond	Satisfactory	Class III
Little Willow River WMA	MNDNR- Wildlife	Little Willow River	Earth	10'	228'	Fish and Wildlife Pond	Satisfactory	Class III
Jewett WMA	MNDNR- Fisheries and Wildlife	Dam Brook	Earth	6'	400'	Fish and Wildlife Pond	No Data	No Data
Jewett WMA	MNDNR- Fisheries and Wildlife	Dam Brook	Rockfill, Other	9'	675'	Fish and Wildlife Pond	Satisfactory	Class III
Little Hill Pond	MNDNR- Fisheries and Wildlife	Little Hill River - TR	Earth	8'	420'	Fish and Wildlife Pond	Poor	Class III
Rabbit Lake	MNDNR	Rabbit Creek	No Data	No Data	No Data	Recreation	Satisfactory	No Data
Dam Lake	MNDNR	Dam Brook	No Data	No Data	No Data	Flood Control	Poor	No Data
Cornish Flowage	MNDNR- Wildlife	Savannah River - TR	Rockfill, Earth	8'	38'	Flood Control	Satisfactory	Class III
Cedar Lake	MNDNR	No Data	No Data	No Data	No Data	No Data	Satisfactory	No Data

Dam Name	Owner	Waterway	Type	Heig ht (ft)	Length (ft)	Purpose	Condition	Rating
Esquagamah Lake	MNDNR- Trails	No Data	No Data	No Data	No Data	Recreation	Not Rated	No Data
Lake Minnewawa	MNDNR	Minnewawa Creek	No Data	No Data	No Data	Recreation	Satisfactory	Class III
Spirit Lake	MNDNR- Trails	Ripple River	No Data	No Data	No Data	Fish and Wildlife Pond	Satisfactory	Class III
Long- Tamefish Lake	MNDNR	No Data	No Data	No Data	No Data	Recreation	Satisfactory	No Data
French Lake WMA	MNDNR- Wildlife	Rice River - TR	No Data	No Data	No Data	Fish and Wildlife Pond	Satisfactory	Class III
Round Lake	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Grayling Marsh	MNDNR- Wildlife	No Data	No Data	No Data	8'	Fish and Wildlife Pond	Fair	Class III

SOURCES: (MN DNR, 2014; USACE, 2021)

Table 29. Levees in Aitkin County

Levee Name	Location	Waterway	Length (mi)	Leveed Area (sq mi)
Aitkin Unincorporated Levee	Aitkin Township, Aitkin City	Mississippi River	1,222	0.198
Mississippi River Diversion near Aitkin	Second Assessment Unorg Terr, Aitkin Township	Little Willow River	5.771	5.009

SOURCE: (MN DNR, 2014; USACE, 2021)

5.6.1 HISTORY

According to the State Dam Safety Engineer at the MN DNR, there are no records of a dam or levee failure in Aitkin County.

5.6.2 PROBABILITY OF OCCURRENCE

To determine the probability of future dam or levee failures in Aitkin County, records of previous failures and the period in which they occurred were examined. There MN DNR has zero records of dam failures occurring in the county; therefore, the relative frequency of these events is o per year. This relative frequency can be used to infer that the probability of dam failures occurring in the future is very low.

5.6.3 CLIMATE CHANGE PROJECTIONS

Dams are designed based on assumptions about a river's annual flow behavior that will determine the volume of water behind the dam and flowing through the dam at any one time. Changes in weather patterns due to climate change may change the expected flow pattern, and indirectly increase the likelihood of dam failures. It is conceivable that bigger rainfalls at earlier times in the year could threaten a dam's designed margin of safety, causing dam operators to release greater volumes of water earlier in a storm cycle in order to maintain the required margins of safety. Such early releases of increased volumes can increase flood potential downstream.

Minnesota had a dam failure due to a large storm event in June 2012. The Forebay Canal in Carlton County had operated as designed for nearly 100 years. The intensity of the 2012 rain event caused a failure of the canal wall, which caused significant damage. Climate change is adding a new level of uncertainty that needs to be considered with respect to assumptions made during dam construction.

5.6.4 VULNERABILITY

Although dam regulatory authorities differ between various federal and state agencies, all authorities attempt to classify dams according to the potential impacts from a dam failure or mis-operation. In response to the numerous classification systems, FEMA's Interagency Committee on Dam Safety created a downstream hazard potential classification system that is adaptable to any agency's current system. Table 30 provides an overview of the main criteria agencies consider when determining a dam's downstream hazard potential. This classification system does not imply that the dam is unsafe, but rather categorizes dams based on the probable loss of human life and the impacts on economic, environmental, and lifeline interests (FEMA, 2004b).

Dams for which a hazard potential has not been designated, or is not provided, are classified as "Undetermined."

An Emergency Action Plan (EAP) is a document which identifies potential emergency conditions at a dam and specifies preplanned actions to be followed during a dam failure to minimize property damage or loss of life. An EAP is required for Class I dams and strongly recommended for Class II dams (MN DNR, 2020b).

Table 30. Downstream hazard potential classification criteria

Hazard Potential Classification	Loss of Human Life	Economic, Environmental, Lifeline Losse		
Class III (Low)	None expected	Low and generally limited to owner		
Class II (Significant)	None expected	Yes		
Class I (High)	Probable - one or more expected.	Yes (but not necessary for this classification)		

SOURCE: (USACE, 2008)

Nineteen of the dams in Aitkin County are a Class III (low hazard potential) and no hazard information is available for the other ten dams. None of the dams had Emergency Action Plans (EAP) available to us, but the USCOE does have an updated EAP for the low hazard Sandy Lake Dam. No information is available or required about vulnerable structures or populations in the event of a failure. In addition to dams being classified by their hazard potential, the physical condition of dams is inspected and given a condition ranking. The condition of a dam is categorized into one of the following classifications:

Satisfactory: No existing or potential dam safety deficiencies are recognized. Acceptable performance is expected under all loading conditions (static, hydrologic, seismic) in accordance with the applicable regulatory criteria or tolerable risk guidelines.

Fair: No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.

Poor: A dam safety deficiency is recognized for loading conditions which may realistically occur. Remedial action is necessary. "Poor" may also be used when uncertainties exist as to critical analysis parameters which identify a potential dam safety deficiency. Further investigations and studies are necessary.

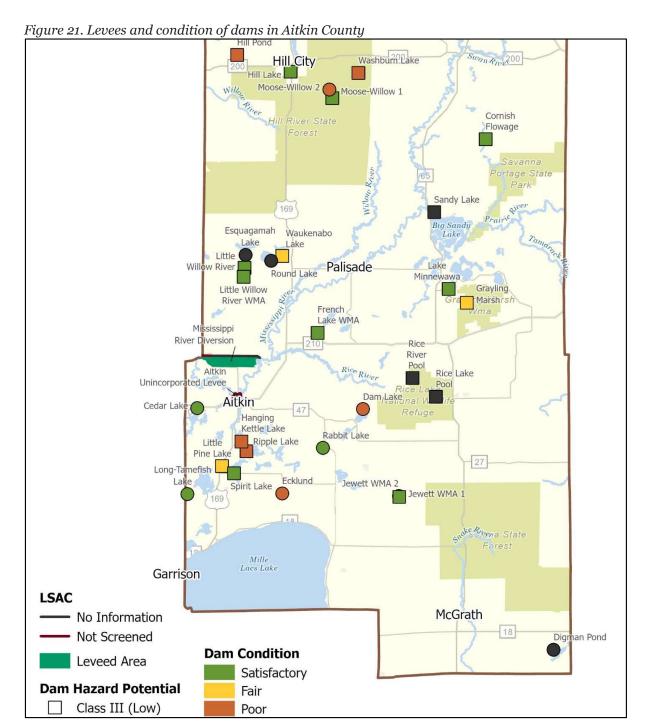
Unsatisfactory: A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.

Not Rated: The dam has not been inspected, is not under state jurisdiction, or has been inspected but, for whatever reason, has not been rated. (USACE, 2008)

Dams in "Poor" or "Unsatisfactory" conditions may be more vulnerable to failure and pose a greater threat to the surrounding community and infrastructure. Seven of the dams that have received a rating in Aitkin County have been rated as "Poor." The location of levees and location and condition of dams in Aitkin County are mapped in Figure 21.

Similar to dams, levees have a Levee Safety Action Classification (LSAC) "...designed to take into account the probability of the levees being loaded, existing condition of the levee, the current and future maintenance of the levee, and the consequences if a levee were to fail or be overwhelmed (USACE, 2020a). Table 31 shows the LSAC's five levels of risk, as well as the actions that should be taken at each risk level.

The levees in Aitkin County are used to regulate water levels and protect communities from flooding. A breached levee can have serious consequences to the community relying on the levee to hold water back. Table 32 provides a summary of the county's levees and community assets protected by the respective levee.



SOURCE: (USACE, 2021)

Table 31. USACE's	Levee Safett	u Action Classi	fication	(LSAC)) Table

Risk	Actions for Levee Systems and Leveed Areas in this Class (Adapt actions to specific levee system conditions.)	Risk Characteristics of this Class
Very High (1)	Based on risk drivers, take immediate action to implement interim risk reduction measures. Increase frequency of levee monitoring, communicate risk characteristics to the community within an expedited timeframe; verify emergency plans and flood inundation maps are current; ensure community is aware of flood warning systems and evacuation procedures; and, recommend purchase of flood insurance. Support risk reduction actions as very high priority.	Likelihood of inundation due to breach and/or system component malfunction in combination with loss of life, economic, or environmental consequences results in very high risk.
High (2)	Based on risk drivers, implement interim risk reduction measures. Increase frequency of levee monitoring, communicate risk characteristics to the community within an expedited timeframe; verify emergency plans and flood inundation maps are current; ensure community is aware of flood warning systems and evacuation procedures; and, recommend purchase of flood insurance. Support risk reduction actions as high priority.	Likelihood of inundation due to breach and/or system component malfunction in combination with loss of life, economic, or environmental consequences results in high risk.
Moderate (3)	Based on risk drivers, implement interim risk reduction measures as appropriate. Verify risk information is current and implement routine monitoring program; assure O&M is up to date; communicate risk characteristics to the community in a timely manner; verify emergency plans and flood inundation maps are current; ensure community is aware of flood warning systems and evacuation procedures; and, recommend purchase of flood insurance. Support risk reduction actions as a priority.	Likelihood of inundation due to breach and/or system component malfunction in combination with loss of life, economic, or environmental consequences results in moderate risk.
Low (4)	Verify risk information is current and implement routine monitoring program; assure O&M is up to date; communicate risk characteristics to the community as appropriate; verify emergency plans and flood inundation maps are current; ensure community is aware of flood warning systems and evacuation procedures; and, recommend purchase of flood insurance. Support risk reduction actions to further reduce risk to as low as practicable.	Likelihood of inundation due to breach and/or system component malfunction in combination with loss of life, economic, or environmental consequences results in low risk.
Very Low (5)	Continue to implement routine levee monitoring program, including operation and maintenance, inspections, and monitoring of risk. Communicate risk characteristics to the community as appropriate; verify emergency plans and flood inundation maps are current; ensure community is aware of flood warning and evacuation procedures; and recommend purchase of flood insurance.	Likelihood of inundation due to breach and/or system component malfunction in combination with loss of life, economic, or environmental consequences results in very low risk.
No Verdict	Not enough information is available to assign an LSAC.	

^{*}Levee risk is the risk that exists due to the presence of the levee system, and this is the risk used to inform the decision on the LSAC assignment. The information presented in this table does not reflect the overtopping without breach risk associated with the presence or operation of the levee system.

SOURCE: (USACE, 2020A)

Table 32. Assets in leveed areas

Levee Name	Location	LSAC Rating	Property Value	Structures at Risk	Population at Risk
Aitkin Unincorporated Levee	Aitkin Township, Aitkin City	Not Screened	\$17,348,953	70	135
Mississippi River Diversion near Aitkin	Second Assessment Unorg Terr, Aitkin Township	Not Screened	\$2,528,833	10	10

SOURCE: (USACE, 2020B)

5.6.5 PROGRAM GAPS AND DEFICIENCIES

Aitkin County Emergency Management did not identify any program gaps or deficiencies that make its citizens more vulnerable to dam and levee failure.

Section 6 – Mitigation Strategy

The goal of mitigation is to protect lives and reduce the impacts of future hazard events including property damage, disruption to local and regional economies, the amount of public and private funds spent to assist with recovery, and to build disaster-resistant communities. Mitigation actions and projects should be based on a well-constructed risk assessment, provided in Section 5 of this plan. Mitigation should be an ongoing process adapting over time to accommodate a community's needs.

6.1 Community Capability Assessments

The capability assessment identifies current activities and existing planning tools used to mitigate hazards. The capability assessment identifies the policies, regulations, procedures, programs and projects that contribute to the lessening of disaster damages. The assessment also provides an evaluation of these capabilities to determine whether the activities can be improved in order to more effectively reduce the impact of future hazard events. The following sections identify existing plans and mitigation capabilities within all of the communities:

- Appendix D: Lists the plans and programs in place in Aitkin County as related to hazard mitigation.
- Appendix C: As part of the Aitkin County MHMP update, the county and city governments were asked to participate in filling out a "Local Mitigation Survey" (LMS) form to report on their current mitigation capabilities and program gaps. Appendix C provides the LMS reports gathered for Aitkin County.

Information from the capability assessments was used to support development of local mitigation actions for implementation over the next five years (see column *Comments on Implementation& Integration*).

6.1.1 NATIONAL FLOOD INSURANCE PROGRAM (NFIP)

The NFIP is a federal program created by Congress to mitigate future flood losses nationwide through sound, community-enforced building and zoning ordinances and to provide access to affordable, federally backed flood insurance protection for property owners. The NFIP is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods. Participation in the NFIP is based on an agreement between local communities and the federal government that states that if a community will adopt and enforce a floodplain management ordinance to reduce future flood risks to new construction in Special Flood Hazard Areas (SFHAs), the federal government will make flood insurance available within the community as a financial protection against flood losses.

Table 33 lists and describes jurisdictional participation in the National Flood Insurance Program (NFIP).

Table 33. NFIP participation in Aitkin County

Community Name	Participation in the NFIP	FEMA Map	Description of Participation
Aitkin County	Participating	FEMA- mapped high- risk areas	Aitkin County has adopted and enforces a Floodplain Ordinance (last amended June 6, 2001) to meet NFIP requirements, including regulating new construction in Special Flood Hazard Areas (SFHAs). The Aitkin County Planning & Zoning Department conducts floodplain identification and mapping, including any local requests for map updates and assists with community assistance and monitoring for localized flooding.
Aitkin	Participating	FEMA- mapped high- risk areas	The City of Aitkin has adopted and enforces Chapter 152: Zoning and Subdivisions; subsection 152.056 Floodplain Overlay District which establishes regulations designed to minimize flood losses.
Hill City	Participating	FEMA- mapped high risk areas (annexed county SFHA)	The City of Hill City adopted a Floodplain Management Ordinance on November 12, 2014. The ordinance includes maps.
McGrath	Not Participating	No FEMA- mapped high- risk areas	The city does not have a FEMA map and is not participating.
McGregor	Participating	FEMA- mapped high- risk areas (annexed county SFHA)	The City of McGregor has adopted and enforces a Floodplain Ordinance (Ordinance No. 173) which regulates development in the flood hazard areas of the City of McGregor.
Palisade	Participating	FEMA- mapped high- risk areas	The City of Palisade is mapped and is participating under an old ordinance. The city is reviewing it in order to update it.
Tamarack	Not Participating	No FEMA- mapped high- risk areas	The city does not have a FEMA map and is not participating.

SOURCE: (CEIL STRAUSS, MN FLOODPLAIN MANAGER, PERSONAL COMMUNICATION, APRIL 6, 2020)

Repetitive loss properties are defined as properties that have had two or more flood insurance claims of \$1,000 or more in any rolling 10-year period. Property owners are asked to consider mitigation activities such as acquisition, relocation, or elevation, among other options. FEMA's Repetitive Loss (RL) properties strategy is to eliminate or reduce the damage to property and the disruption to life caused by repeated flooding of the same properties. Property owners are notified of their status by FEMA.

There are no RL properties in Aitkin County. For more on the areas that flood repeatedly in Aitkin County, see Section 5.1.

6.1.2 PLANS AND ORDINANCES

Aitkin County and its incorporated communities have a number of plans and ordinances in place to ensure the safety of residents and the effective operation of communities including a Zoning Ordinance, Floodplain Ordinance, Emergency Operations Plan, and Wellhead Protection Plan.

6.1.3 PLANS AND PROGRAMS IN PLACE TO ADDRESS NATURAL HAZARDS

Aitkin County has numerous plans and programs in place to address natural hazards. Some of these programs are specific to a hazard and others address impacts and human safety for many types of events ("All-Hazards"). For the purpose of grouping related natural hazards, "Summer Storms" encompasses Tornadoes, Windstorms, Lightning, and Hail. Following is a description of the plans and programs in place by Aitkin County to support mitigation for the hazards addressed in this plan.

All Hazards

All Hazards Emergency Operations Plan: Aitkin County Emergency Management maintains an all hazards Emergency Operations Plan which details key emergency management functions (i.e., Public Information and Warning, Evacuation, Mass Care Sheltering, etc.) that may be necessary in advance of, during and following hazard events that pose risk to life safety. This includes events such as severe summer and winter storms, tornadoes, extreme temperatures, flooding, and wildfire.

Public Warning and Emergency Notification: In the event of emergencies or hazardous conditions that require timely and targeted communication to the public, Aitkin County utilizes the Everbridge emergency notification system which users must sign up for ("opt-in service"). Aitkin County also has IPAWS (Integrated Public Alert Warning System) which allows for both targeted and countywide emergency notifications to both residents and visitors (not an "opt-in" service). Severe spring and summer storm warnings are initiated by the National Weather Service or by local trained SkyWarn spotters. Extreme cold temperature warnings and extreme heat warnings, and winter weather warnings are issued by the National Weather Service. Residents receive warnings by NOAA weather radio, local media, Everbridge, cell phone apps and the outdoor warning siren system.

Preparedness Outreach: Aitkin County Emergency Management utilizes our Sheriff's Office Facebook page and local news media to communicate with residents and visitors on emergency preparedness. A link for the Everbridge emergency notification system is located on the Aitkin County website.

Shelter Facilities: There are six designated shelter facilities within Aitkin County that have an MOU with the American Red Cross. A severe storm or a period of extreme heat/cold coupled with

a major power outage may require emergency sheltering for those in need. Aitkin County Emergency Management and the Aitkin Public Health Department maintain a list of shelters within the county and have trained staff for shelter operations. Aitkin County has sheltering and pet sheltering plans in place.

NOAA Weather Radios: Aitkin County Emergency Management promotes the use of NOAA weather radios by schools, long-term care facilities, county buildings, local residents, and visitors to receive information broadcast from the National Weather Service. We promote use of these radios in advance of and during our severe weather months using our Sheriff's Office social media and also during the NWS severe weather awareness weeks.

Backup Power: Generator back-up power is in place for the Aitkin County EOC, Courthouse, Public Works Building, Jail, Sheriff's Office and Dispatch.

School Closings: All school districts within Aitkin County have a school closing policy and communications plan in place if inclement weather or other event creates a hazardous situation for students or staff.

Severe Winter Storms

Winter Weather Warnings: Winter weather warnings are issued by the National Weather Service office in Duluth, MN. Aitkin County Sheriff's Office and local media help to relay NWS weather warnings.

Winter Hazard Awareness Week: Aitkin County Emergency Management helps promote and participates in the National Weather Service's "Winter Hazard Awareness Week" held in November each year. The event provides education to residents on the dangers of winter weather and how to properly deal with it. We utilize our Aitkin County Sheriff's Office Facebook page and local news media to share information with the public.

Snow Removal: The Aitkin County Highway Department is responsible for the removal of snow and ice from county roads, as well as some township roads and city streets based on interagency agreements. The department completes its snow removal process in accordance with the Aitkin County Highway Department snow removal policy. MnDOT removes snow from State Highways as well as disperses salt/sand as needed.

Severe Summer Storms

Outdoor Warning Sirens: There are six outdoor warning sirens located in Aitkin County. Sirens are activated when the National Weather Service notifies Dispatch of high winds or tornado conditions that pose a risk to the public. Warning sirens are owned by the cities of Aitkin, Hill

City, Tamarack, and McGregor and Mille Lacs Band of Ojibwe and are located and maintained by those jurisdictions. All sirens are remotely activated by the Aitkin County Sheriff's Office.

SKYWARN Program: Aitkin County Emergency Management works with the National Weather Service to offer training on an annual basis to local fire and law enforcement departments and local residents that wish to be trained as volunteers. SKYWARN Spotters help to keep their local communities safe by providing timely and accurate reports of severe weather to their local National Weather Service office.

Severe Weather Awareness Week: Aitkin County Emergency Management helps promote and participates in the National Weather Service's "Severe Weather Awareness Week" held in April each year. The week-long event seeks to educate residents on the dangers of severe storms and highlights the importance of preparing for severe weather before it strikes. We utilize the Aitkin Sheriff's Office Facebook page and local news media to share information with the public.

Tree Management: The Aitkin County Highway Department actively clears trees on the right-of-way of county-owned roads to reduce the danger of trees falling on roads during severe storm events such as thunderstorms, straight-line winds or ice storms. Local road authorizes are encouraged to do the same.

MDH Requirements for Manufactured Home Parks: The Aitkin County Public Health Department works with the owners of manufactured home parks (MHP's) within the County to ensure that they are meeting Minnesota Department of Health (MDH) requirements for storm shelters and evacuation plans. Shelter and evacuation plans must be approved by the municipality in which they are located and submitted to MDH.

Flooding

Floodplain Mapping & Ordinance: Aitkin County's Environmental Services Office maintains the floodplain maps and floodplain management ordinance for the county.

National Flood Insurance Program (NFIP): Aitkin County and all cities with FEMA-mapped high-risk areas participate in the NFIP.

Aitkin County Floodplain Management: The Aitkin County Environmental Services Office is the repository for the National Flood Insurance Program's Flood Insurance Rate Maps (FIRM), as well as flood boundary and floodway maps for rural Aitkin County. The Environmental Services Office can assist county residents in determining whether their property is affected by an officially mapped flood area. Flood Insurance Rate Maps are available on the Environmental Services website for all Aitkin County townships.

Transportation Improvement Plan: Aitkin County Highway Department maintains an annual Transportation Improvement Plan (TIP) that identifies and schedules road improvement projects that include culvert and drainage improvements to reduce over-the-road repetitive flooding. The current Aitkin County TIP is in place for 2019-2023.

Aitkin County Floodplain & Shore Land Ordinances: The Aitkin County Environmental Services Department administers land use and zoning ordinances for rural and unincorporated portions of Aitkin County, including for floodplains and shore land. The department also provides information and support for environmental health issues that may affect water quality after flooding occurs. Aitkin County 'County-Wide' Zoning Ordinance addresses Shore Land Management Regulations including building regulations to mitigate against flooding during highwater elevation (for structures along lakes, ponds, flowages, rivers, and streams).

Stormwater Management Ordinance & Plans: Aitkin County Zoning Ordinance Section 5.5 of the Shore Land Management Ordinance addresses storm water management.

Enforcement of MPCA Storm Water Standards for New Development: New residential and commercial development is required to meet MPCA storm water standards and are required to obtain and National Pollutant Discharge Elimination System (NPDES) and the County requires a copy of this before approvals are granted. All the townships have drainage standards that meet or exceed the required rainfall events. Each project has to provide the County with a Storm water Pollution Prevention Plan (SWPPP) before the County grants approval through the platting process. The County keeps employees on staff that are qualified through training to review these plans.

Aitkin County Drainage Administration: Aitkin County has a Drainage Engineer that oversee management of 646 miles of open ditches and thousands of miles of underground tile in Aitkin County, consisting of 42 public drainage systems. Private landowners with property that adjoin county ditches are encouraged to help keep them free and clear of debris.

Aitkin County Land Use Management Plan: The Aitkin County Land Use Management Plan (2000) addresses goals for the management of drainage ditches: Initiate and implement a process and office within the County structure to administer the maintenance of a public drainage system, continually review the needs of the system, address drainage concerns and make reports to the Ditch Authority.

Aitkin County Soil & Water Conservation District: The Aitkin County SWCD helps to oversee and implement regional planning for projects that help to reduce the impacts of high rain events resulting in flooding and erosion that affects natural systems.

Wildfire

Local Fire Departments: There are six fire departments located in Aitkin County. Each department is responsible for wildfires within their department boundaries; however, they often work together on larger fires, including wildfires.

Burning Permits/Restrictions: The Minnesota Department of Natural Resources regulates when burning permits are available and requires permit holders to notify the county prior to burning.

Mutual Aid Agreements: All of the municipal fire departments in Aitkin County have mutual aid agreements with each contiguous department that borders their respective fire district. Written mutual aid agreements are on file with each city.

Fire Prevention Week: Fire prevention week is held annually each October with the main emphasis on educating the youth through visiting schools. Most fire departments participate and provide an opportunity for local residents to learn fire safety with open houses.

Dam Failure

Aitkin County Dam Emergency Action Plan: The Big Sandy Lake Dam, also known as the Libby Dam, is located on the north side of Big Sandy Lake where the Mississippi River enters. The dam is owned and operated by the US Corp of Engineers. The US Corp of Engineers maintains an Emergency Action Plan for the dam which addresses response measures such as emergency public notification and evacuation in the event of a dam breach. There are many small water control dams located throughout Aitkin County. Ownership of these structures varies. Some are owned by Aitkin County, some by Minnesota Department of Natural Resources, some have questionable/unknown ownership. The MN DNR generally has permitting authority and responsibility over all of these structure as they generally control water elevations in public waters

6.2 Mitigation Goals

The goals and strategies for natural hazards in the 2019 Minnesota State Hazard Mitigation Plan were adopted for use in the Aitkin County Plan. This framework, as outlined below, will allow for integration of the mitigation actions that are listed by Aitkin County and its jurisdictions into the state plan. The state will then be able to develop a statewide strategy that will benefit all of Minnesota.

Flooding Goal: Reduce deaths, injuries, property loss and economic disruption due to all types of flooding (riverine, flash, coastal, dam/levee failure).

Wildfire Goal: Reduce deaths, injuries, property loss, natural resource and economic disruption due to wildfires (forest, prairie, grass, and peat bogs).

Windstorms Goal: Reduce deaths, injuries, property loss, and economic disruption due to windstorms.

Hail Goal: Reduce deaths, injuries, property damage, and economic disruption due to hailstorms.

Winter Storms Goal: Reduce deaths, injuries, property loss, and economic disruption due to winter storms (blizzard, ice, and ice storm).

Lightning Goal: Reduce deaths, injuries, property losses, loss of services, and economic disruption due to lightning.

Tornado Goal: Reduce deaths, injuries, property loss, and economic disruption due to tornadoes.

Drought Goal: Reduce economic loss and environmental impacts due to drought.

Extreme Heat Goal: Reduce deaths, injuries, and economic disruption due to extreme heat.

Extreme Cold Goal: Reduce deaths, injuries, and economic disruption due to extreme cold.

Dam/Levee Failure Goal: Reduce deaths, injuries, property loss, natural resource and economic disruption due to dam/levee failure.

Erosion/Landslide/Mudslide Goal: Reduce deaths, injuries, property loss, and economic disruption due to hillside, coastal, bluff: caused primarily by oversaturation of soil.

6.3 Mitigation Action and Project Strategies

The mitigation actions in this plan are summarized into four main strategy types, as described in the FEMA publications *Local Mitigation Planning Handbook* (2013) and *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards* (2013). A fifth strategy type was determined by Minnesota HSEM for use within the state: Mitigation Preparedness and Response. The strategies and example actions are listed in Table 34.

Table 34. Mitigation strategies and action types

Mitigation Strategy	Description	Example Mitigation Actions
Local Plans and Regulations	These actions include government authorities, policies, or codes, that influence the way land and buildings are developed and built.	 Comprehensive plans Land use ordinances Planning and zoning Building codes and enforcement Floodplain ordinances NFIP Community Rating System Capital improvement programs Open space preservation Shoreline codes Stormwater management regulations and master plans

Mitigation Strategy	Description	Example Mitigation Actions
Structure and Infrastructure Projects	These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards. Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.	 Acquisitions and elevations of structures in flood prone areas Utility undergrounding Structural retrofits Floodwalls and retaining walls Detention and retention structures Culverts Safe rooms
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	 Sediment and erosion control Stream corridor restoration Forest management Conservation easements Wetland restoration and preservation
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	 Radio or television spots Websites with maps and information Real estate disclosure Presentations to school groups or neighborhood organizations Mailings to residents in hazard-prone areas. StormReady Certification Firewise Communities
Mitigation Preparedness and Response	This is a State of Minnesota mitigation strategy with the intent of covering preparation and actions that protect life and property during a natural disaster.	 Emergency operations plan Flood fight plans and preparedness Dam emergency action plans Warning Backup power Emergency capabilities

Local leaders work together with the Aitkin County emergency management director to assure that the hazards and mitigation actions included in this plan are accurate and addressed in their jurisdictions. Development of mitigation actions for the county and each city was informed by a community's hazard and risk assessment; identification of local vulnerabilities, and review of capabilities in place to address mitigation. Planning team members, local elected officials and staff from Aitkin County and each city actively participated in the development and review of mitigation action charts for implementation through participation in planning team meetings (see Appendix F) and development of Local Mitigation Surveys (see Appendix C). Additional jurisdictional and public feedback was incorporated following news releases inviting public input to the planning process (see Appendix G)

The Aitkin County risks and mitigation activities identified also incorporate the concerns and needs of townships, school districts, and other entities participating in this plan. Appendix J contains the jurisdictional mitigation action charts for the cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack.

Following is an overview the mitigation action charts and description of each element of the chart.

Number (#)

Each mitigation action is identified by a number.

Hazard

Each mitigation action is identified by the natural hazard that it relates to. Actions that fall under "All-Hazards" relate to both natural and non-natural hazards.

Mitigation Strategy

Each mitigation action is identified by one of the following five mitigation strategies.

- Local Planning and Regulations
- Structure and Infrastructure Projects
- Natural Systems Protection
- Education and Awareness Programs
- Mitigation Preparedness and Response Support

Mitigation Action

Each mitigation action provides a concise, action-oriented description of the action or project to be undertaken. If a mitigation reduces risk to new or existing buildings/infrastructure it is noted.

Status

The status of each mitigation action is indicated by one of the following categories:

- New New actions that have been identified since the last plan.
- Existing Actions that are carried over from the last plan or have been updated.

• In Progress – Actions from the last plan that are currently being acted upon.

Mitigation actions that have been completed or deleted from the 2014 Aitkin County Multi Hazard Mitigation Plan are identified and reported on in Appendix H. Completed and deleted mitigation actions are not carried over into the updated mitigation action chart.

Priority

In the review and discussion of selected mitigation strategies and actions, the planning team ranked of mitigation actions by priority for implementation. Table 35 provides criteria that were taken into consideration in the process.

Table 35. Criteria for Mitigation Action Priority Ranking

Ranking	Criteria
High Priority	 Methods for reducing risk from the hazard are technically reliable. The County has experience in implementing mitigation measures. Mitigation measures are eligible under federal grant programs. There are multiple mitigation measures for the hazard. The mitigation measure(s) are known to be cost effective. The mitigation measures protect lives and property for a long period of time, or are permanent risk reduction solutions.
Moderate Priority	 Mitigation methods are established. The County has limited experience with the kinds of measures that may be appropriate to mitigate the hazard. Some mitigation measures are eligible for federal grants. There is a limited range of effective mitigation measures for the hazard. Mitigation measures are cost-effective only in limited circumstances. Mitigation measures are effective for a reasonable period of time.
Low Priority	 Methods for reducing risk from the hazard are not well-established, are not proven reliable, or are experimental. The State or Counties have little or no experience in implementing mitigation measures, and/or no technical knowledge of them. Mitigation measures are ineligible under federal grant programs. There is a very limited range of mitigation measures for the hazard, usually only one feasible alternative. The mitigation measure(s) have not been proven cost effective and are likely to be very expensive compared to the magnitude of the hazard. The long-term effectiveness of the measure is not known or is known to be relatively poor.

Time frame

Each mitigation action identifies the anticipated timeframe for implementation of the action within the next five-year planning cycle.

- Ongoing Implementation of the action will require continued application.
- Defined (year) Implementation of the action will occur within a defined time frame that is noted.
- TBD The anticipated time frame for implementation of an action is to be determined.

Responsibility

Each mitigation action identifies what personnel, department or agency will be lead for the administration or implementation of the action.

Comments on Implementation & Integration

Each mitigation action provides a description of how the jurisdiction will work to implement the mitigation action and incorporate the activity into other existing planning mechanisms.

Possible Funding

Each mitigation action identifies where potential funding may come from to support implementation of the mitigation activity, such as existing county or city funding, state or federal funding. Projects that may be eligible for future FEMA Hazard Mitigation Assistance grant funding are noted.

The Aitkin County Mitigation Action Chart is provided in Table 36. Appendix J provides the mitigation action charts developed for each city participating in the MHMP update.

ble	36. Aitkin (оиппу міпдап	Table 36. Aitkin County Mitigation Action Chart					
	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding	
	All- Hazards	Education & Awareness Programs	Encourage all county residents to sign-up for the county's Everbridge emergency notification alert system.	Existing High Ongoing	Aitkin County Emergency Management (ACEM)	A link for the Everbridge emergency notification system is located on the Aitkin County website and reminders are put out on the Sheriff's Office Facebook page as well as during the NWS's Severe Weather Awareness Week.	County	
	All- Hazards	Mitigation Preparedness & Response Support	Ensure the Aitkin County Emergency Operations Plan (EOP) is updated and addresses policies & procedures needed to support EM functions prior to, during, and following a disaster.	Existing Moderate Ongoing	ACEM	ACEM has an EOP that is updated on a regular basis which helps the county be ready to respond to disasters across a range of EM functions. This includes plans in place for sheltering of displaced residents and pet sheltering.	County	
	All- Hazards	Mitigation Preparedness & Response Support	Ensure designated facilities are in place and prepared for providing mass care sheltering and county staff are trained in sheltering operations.	Existing Moderate Ongoing	ACEM, AC Public Health (ACPH)	ACEM and ACPH maintain a list of shelters within the county and have trained staff for shelter operations. We partner with the American Red Cross to establish MOU's with facilities in the county to serve as official shelter locations that meet ARC shelter requirements for space and accessibility. ACEM will continue to work to ensure that all designated shelters are prepared with backup generators where needed.	County	

Possible Funding	County	Electric Coops, FEMA HMA grant	County, Local Gov't	County
Comments on Implementation & Integration	ACEM participates in and promotes the NWS Severe Weather Awareness Weeks in spring and fall each year. We also promote residents to be prepared for emergencies, to have NOAA weather radios, and to sign up for the county's Everbridge system and Sheriff's Office Facebook page to receive emergency notifications and other information. ACEM shares information with local governments and encourages them to use their communication platforms to	keep residents informed. Mille Lacs Electric and Lake Country Power continue to address where power lines can be strengthened or buried underground. ACEM will assist as needed with future applications to FEMA for eligible projects to reduce risk of power outages by these coops. ACEM continues to provide assistance	acquire portable generators to power infrastructure such as lift stations and other key facilities such as City Hall /community shelters in the event of a power outage. In some cases, this may include helping to identify where used portable generators may be obtained or helping to prepare a funding	application. The Aitkin County Hwy. Dept and local utility providers address tree management near powerlines. Townships & cities are encouraged to do the same for roads under their authority.
Responsibility	ACEM in coord with Local Gov't	ACEM in coord with Local Gov't and Rural & Municipal Utility Coops	ACEM in coord with Local Gov't	AC Highway Dept.
Status Priority Timeframe	Existing High Ongoing	Existing High Ongoing	Existing Moderate Ongoing	Existing Moderate Ongoing
Mitigation Action	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages. Coordinate with local jurisdictions to share information locally.	Work with municipalities / rural electric coops to encourage them to address burying powerlines or strengthening power poles to avoid power outages from high wind events and storms.	Work with local jurisdictions to acquire generator backup power to support critical infrastructure and delivery of essential services during an extended power outage due to storms.	Conduct vegetation management along county-owned roads to reduce the risk of downed trees and branches resulting from severe storms.
Mitigation Strategy	Education & Awareness Programs	Structure & Infrastructure Systems	Mitigation Preparedness & Response Support	Natural Systems Protection
Hazard	Severe Winter & Summer Storms	Severe Winter & Summer Storms	Severe Winter & Summer Storms	Severe Winter & Summer Storms
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Possible Funding	County, Local Facilities	County, State/Local	ACPH, MHP Owners	County, NWS
Comments on Implementation & Integration	ACEM and ACPH continue to work with school districts and other long-term care facilities across the county and will encourage them to have plans in place for when the need arises.	Campground operators will be encouraged to take action on this locally. Big Sandy Lake Campground, Savanna Portage State Park and the group camp at Savanna Lake have established storm shelters. Aitkin County manages camping reservations at 4 county parks (Aitkin Park, Berglund Park, Jacobson Park, and Snake River Park) and posts storm safety	Information for campers. The Aitkin County Public Health Department works with the owners of manufactured home parks and the municipalities where they are located to help to ensure that they are meeting Minnesota Department of Health requirements for storm shelters and evacuation plans.	ACEM works with the NWS to provide SKYWARN storm spotter training on an annual basis to local law enforcement, fire departments, and local residents who wish to participate.
Responsibility	ACEM, in coord with Schools & Other Facilities	ACEM in coord with AC Land Dept. & State/Local Parks	ACPH in coord with Local Gov't and MHP's	ACEM in coord with NWS & Local Gov't
Status Priority Timeframe	Existing High Ongoing	Existing Moderate Ongoing	Existing High Ongoing	Existing Moderate Ongoing
Mitigation Action	Encourage schools and long- term facilities that house senior citizens or other vulnerable populations to have emergency plans and generators in place to deal with severe weather, extreme temperatures and power outages.	Encourage campground operators to post information regarding storm shelters and safety during strong summer storms.	Work with owners of mobile home parks (MHP's) to ensure they are in compliance with Minnesota Department of Health (MDH) requirements for evacuation plans and storm shelters.	Ensure there is a network of trained Storm Spotters throughout the county to support situational awareness of and public notification for dangerous storms such as severe thunderstorms and tornadoes.
Mitigation Strategy	Mitigation Preparedness & Response Support	Education & Awareness Programs	Local Planning & Regulations	Mitigation Preparedness & Response Support
Hazard	Severe Winter & Summer Storms	Severe Summer Storms	Severe Summer Storms	Severe Summer Storms
#	∞	6	10	11

Possible Funding	County, Local Gov't, USDA CF Grant Program	County, FEMA HMA, Other (TBD)	County, MN DNR Firewise Grant
Comments on Implementation & Integration	Warning siren upgrades or new installations are needed for the cities of Hill City, McGregor, and Palisade. ACEM will assist these communities as needed with applying for funding to the USDA Community Facilities Grant Program which is a source for funding outdoor warning sirens. All new sirens will be connected to the county's remote	activation system. The cities of Aitkin, Hill City, McGrath, McGregor, Tamarack and the MN DNR Savanna Portage State Park have all identified a need for either a storm shelter or tornado safe room to help protect residents/visitors that are vulnerable to high wind events (i.e., mobile home parks, campgrounds). ACEM will provide assistance as needed to help assess need, possible construction options, and assist in applying for grant funding as needed	(i.e., FEMA HMA safe room grant). The MN DNR Firewise Program has noted that Aitkin County has a CWPP equivalent on file (which is addressed in the county's EOP), but cannot locate a copy. ACEM will work with the MN DNR Firewise Coordinator for NE MN to evaluate if a CWPP equivalent or full CWPP is best for Aitkin County and proceed with that planning for wildfire mitigation.
Responsibility	ACEM in coord with Local Gov't	ACEM in coord with Local Gov't & Savanna State Park (MN DNR)	ACEM in coord with MN DNR Firewise
Status Priority Timeframe	Existing High Ongoing	Existing Moderate Ongoing	New Moderate TBD
Mitigation Action	Provide assistance to local jurisdictions that require purchase & installation of new outdoor warning sirens and ensure they are connected to the county's remote activation system.	Address the need for the construction of storm shelters or tornado safe rooms in communities, parks, or other locations in the county where people are vulnerable to high wind or tornadic events.	Work with the MN DNR Firewise Program to address update of the Aitkin County Community Wildfire Protection Plan (CWPP).
Mitigation Strategy	Local Planning & Regulations / Structure & Infrastructure Projects	Structure & Infrastructure Projects	Local Planning & Regulations
Hazard	Severe Summer Storms	Severe Summer Storms	Wildfire
#	12	13	41

Possible Funding	County, MN DNR	FEMA HMA, MN DNR, other TBD	County
Comments on Implementation & Integration	Aitkin County SWCD is actively working with area homeowner groups on wildfire awareness and creation of defensible space. ACEM will work to help promote these efforts and raise public awareness & education on wildfire risk and opportunities to reduce wildfire risk for homeowners through Level-1 Firewise Assessments and creation of defensible	space. The Aitkin County Soil and Water Conservation District (SWCD) is providing leadership on wildfire mitigation efforts within Aitkin County and is also working in partnership with Dovetail Partners and Carlton County SWCD. Aitkin SWCD wishes to maintain eligibility to apply for wildfire mitigation projects that may be fundable by FEMA for MN DNR in order to support implementation.	and has adopted and enforces a Floodplain Ordinance, adopted June 21, 2016. Compliance with this ordinance is overseen by the Aitkin County Environmental Services Department, which maintains the floodplain maps for the county.
Responsibility	ACEM in coord with Aitkin SWCD	Aitkin SWCD	AC Envir. Services Dept.
Status Priority Timeframe	New Moderate TBD	New High Ongoing	Existing High Ongoing
Mitigation Action	Work with the Aitkin County SWCD to promote wildfire awareness and local actions to reduce wildfire risk.	Apply for FEMA HMA or MN DNR Firewise grant program funding to support the implementation of targeted wildfire mitigation activities such as wildland fuels reduction measures, "chipper days", installation of dry hydrants, and public awareness campaigns.	Participate in the National Flood Insurance Program and enforce policies that address development in high-risk flood areas.
Mitigation Strategy	Education & Awareness Programs	Local Planning & Regulations	Local Planning & Regulations
Hazard	Wildfire	Wildfire	Flooding
#	15	16	17

Possible Funding	County, State, Federal	County, Local Gov't, SWCD Cost Share Grant Funding	County, MN DNR, FEMA HMA, Local Gov't
Comments on Implementation & Integration	AC Highway Dept and local jurisdictions evaluate needed projects on an annual basis and following flood events. AC Hwy. Dept. maintains an annual Transportation Improvement Plan (TIP) that identifies and schedules road improvement projects that include culvert and drainage improvements to reduce over-the-road repetitive flooding. The current Aitkin County TIP is in place for 2019-2023.	AC Hwy. Dept. continues to partner together with the Aitkin SWCD and local governments to address flood and erosion projects (i.e., ditch drainage, culvert & rural road repair, bank stabilization projects).	There are currently no projects for conducting property buyouts, however Aitkin County will continue to evaluate and assist with potential future property acquisition projects and application to FEMA or MN DNR for grant funding to conduct buyouts.
Responsibility	AC Highway Dept.	AC Highway Dept. in coord with SWCD and Local Gov'ts	ACEM, AC Envir. Services in coord with Local Gov'ts
Status Priority Timeframe	In-Progress High 2019-2023	Existing Moderate Ongoing	Existing Low Ongoing
Mitigation Action	Plan for and implement measures to address minor localized flood reduction projects for roads, bridges, and culverts throughout the county.	Work in partnership with the Aitkin County Soil & Water Conservation District and local municipalities to address mitigation projects that address erosion and localized flooding.	Conduct property buyouts to acquire homes affected by repetitive flooding and physically relocate or remove those homes to eliminate future flood damages.
Mitigation Strategy	Local Planning & Regulations / Structure & Infrastructure Projects	Local Planning & Regulations / Structure & Infrastructure Projects	Local Planning & Regulations / Structure & Infrastructure Projects
Hazard	Flooding	Flooding	Flooding
#	18	19	20

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Possible Funding	County	County	County, SWCD Cost Share Grant Program, & Watershed Districts
Comments on Implementation & Integration	The Aitkin County Environmental Services Department administers land use and zoning ordinances for rural and unincorporated portions of Aitkin County, including for floodplains and shoreland. The Aitkin County 'County- Wide' Zoning Ordinance addresses Shoreland Management Regulations including building regulations to mitigate against flooding during high- water elevation (for structures along lakes, ponds, flowages, rivers, and streams). Aitkin County Zoning Ordinance Section 5.5 of the Shore Land Management Ordinance addresses stormwater management.	that oversee management of 646 miles of open ditches and thousands of miles of underground tile in Aitkin County, consisting of 42 public drainage systems. Private landowners with property that adjoin county ditches are encouraged to help keep them free and clear of debris. The Aitkin County Land Use Management Plan (2000) addresses goals for the management of drainage ditches.	Aitkin County Environmental Services continues to work with the Aitkin County SWCD, Big Sandy Area Lakes Watershed District and the Mille Lacs Watershed Management Group on projects that affect water quality, erosion control, and shoreland stabilization.
Responsibility	AC Envir. Services	AC Envir. Services	AC Envir. Services, AC SWCD, in coord with Watershed Districts
Status Priority Timeframe	Existing Moderate Ongoing	Existing Moderate Ongoing	Existing Moderate Ongoing
Mitigation Action	Enforce county policies that regulate zoning for new development, setbacks in shoreline area, and stormwater management.	Manage the system of county ditches to reduce over-the- road flooding resulting from high rain events.	Work in partnership with the SWCD and area watershed districts to coordinate planning and project efforts that address flooding and erosion concerns.
Mitigation Strategy	Local Planning & Regulations	Local Planning & Regulations	Local Planning & Regulations
Hazard	Flooding	Flooding	Flooding
#	21	22	23

Section 7 – Plan Maintenance

7.1 Monitoring, Evaluation, and Updating the Plan

The Aitkin County Multi-Hazard Mitigation Plan should be considered a living document. The plan should be updated and approved by FEMA at a minimum of every five years. The guidance in this section will function as the primary tool when reviewing progress on the implementation of the Aitkin County MHMP.

The Aitkin County Emergency Management Director is the individual responsible for leading all efforts to monitor, evaluate, and update the hazard mitigation plan within the five-year window. Throughout the five-year planning cycle, the Aitkin County Emergency Management Director (EMD) will work with the Aitkin County Emergency Managers Group to serve as the group to help monitor, review, evaluate, and update the Multi-Hazard Mitigation Plan. The group includes designated city emergency managers and fire chiefs from the cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack and also includes city administrators, city clerks, and mayors as needed. The Aitkin County EMD conducts outreach to and communicates with the group on a quarterly basis on emergency management matters regarding severe weather awareness, local preparedness, mitigation, and response & recovery as needed. Additional stakeholders will be added based on need or in response to severe weather events. If necessary, the Aitkin County Emergency Management Director will convene the group to meet on a more regular basis to monitor plan implementation progress and reassess needs and opportunities. This could be done in response to funding cycles of programs that provide resources for hazard mitigation activities. If there is a need for a special meeting due to new developments or a declared disaster occurring in the county, the group will meet to update pertinent mitigation strategies. Depending on Aitkin County opportunities and fiscal resources, mitigation projects may be implemented independently by individual communities or through local partnerships.

The committee will continue to review the MHMP goals and objectives to determine their relevance to changing situations in Aitkin County. In addition, state and federal policies will be reviewed to ensure they are addressing current and expected conditions. The committee will also review the risk assessment portion of the plan to determine if this information should be updated or modified. The parties responsible for the various implementation actions will report on the status of their projects, and will include which implementation processes worked well, any difficulties encountered, how coordination efforts are proceeding, and which strategies should be revised.

Updates or modifications to the MHMP during the five-year planning process will require a public notice and a meeting prior to submitting revisions to the individual jurisdictions for approval. The plan will be updated via written changes, submissions as the committee deems appropriate and necessary, and as approved by county commissioners.

Throughout the five-year window of the plan, Aitkin County Emergency Management Director will request updates from county departments and jurisdictions on that status of mitigation efforts so that progress notes may be maintained for the next plan update.

7.2 Implementation

Aitkin County and its included municipalities share a common Multi-Hazard Mitigation Plan and work together closely to develop, revise, and implement it. This MHMP provides a comprehensive chart of mitigation actions for Aitkin County and its jurisdictions (see Section 6.3). The cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack participated in the MHMP planning process and identified the specific mitigation strategies that they would seek to implement in their communities during the five-year planning cycle. These mitigation actions are provided in Appendix J.

A number of implementation tools are available to address hazards. Many of these tools are below, however, in some cases additional discussion is needed in order to identify what strategies are most appropriate to use. This will be part of an ongoing discussion as Aitkin County looks for opportunities for plan implementation. The following tools will be considered:

Education: In many cases, education of residents has been identified as one of the most effective mitigation strategies.

Capital Investments: Capital investments such as fire and ambulance equipment, sprinkler systems and dry hydrants are tools that can limit risks and impacts of natural and man-made hazards.

Data Collection and Needs Assessments: Data collection and needs assessments can aid in gaining a better understanding of threats and allow planning for mitigation strategies accordingly. As resources are limited for this part of the planning process, additional data collection is likely to be an ongoing activity as resources become available.

Coordination: Responsibilities for mitigation strategies run across various county departments, local fire and ambulance departments, city and township governments, and a host of state and federal agencies. Ongoing coordination is an important tool to ensure resources are used efficiently. Coordination can also avoid duplication of efforts or prevent gaps that are created because of unclear roles and responsibilities. The mitigation plan review process can function as a tool to have an ongoing discussion of roles, responsibilities, and opportunities for coordination.

Regional Cooperation: Counties and public safety services providers throughout the region often share similar challenges and concerns. In some cases, a regional approach may be warranted as a mitigation strategy in order to save resources. Mutual aid agreements are a tool already in use for a number of services. Needs assessments for fire and ambulance services and development of assistance for volunteer recruiting, training, and retention could benefit from a regional approach. Cooperation among counties could also help in lobbying for certain funding priorities that address concerns relating to challenges in service delivery in rural areas. Organizations such as FEMA Region V and the MN

Department of HSEM through the Regional Program Coordinator can offer tools and resources to assist in these cooperative efforts.

Regulation: Regulation is an important mitigation tool for Aitkin County. Regulation plays a particularly important role for land use, access to structures and the protection of water resources and public health.

7.3 Continued Public Involvement

Continued public involvement is critical to the successful implementation of the Multi-Hazard Mitigation Plan (MHMP). The Aitkin County Emergency Management Director and the Aitkin County Emergency Managers Group will continue to engage new public stakeholders in planning discussions and project implementation during the five-year cycle of this plan.

In order to seek continued public participation after the plan has been approved and during the 5-year window of implementation for this plan, Aitkin County will take the following measures:

- The plan will be posted on the Aitkin County Emergency Management website for the public to read and provide feedback. Collected feedback will be reviewed during the five-year plan cycle and will be noted for future update of the plan or addressed as necessary.
- Following any major storms or natural disasters, Aitkin County Emergency Management will seek to gather concerns and new ideas for mitigation from local residents to include in the next update of the plan. This may be done through public meetings, outreach via social media (i.e., Sheriff's Office Facebook Page), or news releases via local media.
- Each community participating in the plan will be responsible to keep their local government, schools and community members updated and engaged in the implementation of their respective mitigation action charts (see Appendix J). Each respective jurisdiction will be required to report on the status of mitigation actions in their charts to the Aitkin County Emergency Management Director.
- Jurisdictions will use numerous means of public outreach to engage new public stakeholders in providing input on mitigation efforts or concerns on hazards by sharing information at city council / township board meetings, sharing information at special events, working with local schools and partner organizations, and posting information on relevant local or social media that their communities use to inform and engage the public. As mitigation projects are implemented, jurisdictions will work to keep the public updated and engaged in those local efforts.

APPENDICES

Appendix B – Adopting Resolutions

Appendix C – Local Mitigation Survey Report

Appendix E – Past Mitigation Action Review Status Report

Appendix F – Planning Team Meetings

Appendix G – Public Outreach & Engagement Documentation

Appendix H – Minnesota Department of Health Climate & Health Report

Appendix I – Critical Infrastructure

Appendix J – Mitigation Actions by Jurisdiction

Appendix A – References

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Appendix C – Local Mitigation Survey Report

Aitkin County Local Mitigation Survey Report

Overview

As part of Aitkin County's Multi-Hazard Mitigation Plan update, participating jurisdictions and county personnel were asked to fill out a Local Mitigation Survey (LMS) form. The purpose of the survey was to gather jurisdictionally-specific information needed to support update of the plan and to help inform development of local-level mitigation actions for the next five-year planning cycle. Following are the responses from the county and jurisdictions that participated in the survey.

LMS Forms

Aitkin County	Page 2
City of Aitkin	Page 9
City of Hill City	Page 13
City of McGrath	Page 17
City of McGregor	Page 20
City of Palisade	Page 26
City of Tamarack	Page 30

AITKIN COUNTY

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the
natural hazards that pose risk to your community, your priority level of those hazards and if
the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	High	No change
Ice Storms	X	High	No change
Tornadoes	X	High	No Change
Windstorms	X	High	Increasing
Lightning	X	Low	No change
Hail	X	Low	No change
Flooding	X	High	Increasing
Extreme Cold	X	Low	No change
Extreme Heat	X	Low	No change
Drought	X	Low	No change
Wildfire	X	Moderate	No change
Landslides		Low	No change
Dam Failure		Low	No change

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

In the last 5 years, Aitkin County has had three weather related State and Federal Declarations:

- In summer of 2016 there were wind damages, power outages and extreme heat & humidity in the Hill City area, along with flooding, wind damages and power outages for the rest of the county from that same storm.
- In June/July, 2018 and August/ September of 2018 were two other declarations for wind damages, power outages, and flooding.

There have been other weather events in 2017 and 2020 that have caused damages due to wind, flooding, and power outages, but not enough to make a declaration.

Aitkin County has also had heavy wet snows and ice that have toppled power lines and trees causing power outages in the spring of 2020. In the summer of 2020, the county had a confirmed tornado that did not cause damages as it hit in a remote unpopulated area.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment
(please list)	List & describe what specific structures, systems, populations, or other community assets are suspectable to damage and loss from specific hazard events.
Windstorms/Tornadoes	Aitkin County is a tourist destination with several campgrounds, cabins, and seasonal trailers. Only Savanna Portage State Park has a designated shelter. The resorts, campgrounds, and trailer parks are vulnerable to falling trees, hail, and high winds.
Extreme Heat/Cold	Aitkin County has a higher percentage of elderly residents. In cases of extreme heat and cold, any power failures due to over loads or storm events could endanger that population.
Ice Storms/Blizzards	Aitkin County has power lines, transmission lines and high voltage lines running through several areas of our county. Ice storms or blizzards could cause damage to these. The trees and power lines are susceptible to ice and windstorms that break and blow down them down. This may leave an inordinate amount of debris and cause disposal problems as well as hazardous conditions for anyone traveling our roadways.
Wildfire	Aitkin County is home to commercial peat farms. Once a peat fire is started it is difficult to extinguish and could burn for several months.
Flooding	Aitkin County is susceptible to flooding with its low lands, wetlands, lakes and rivers. Heavy rain events have created problems to our township, county, and state roads by undermining the roads, and washing out culverts. Many lakes now have "no wake" restrictions to lessen the possibility of lakeshore erosion and flooding to homes.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

Aitkin County has encouraged local residents and businesses to sign up for the county's Everbridge emergency mass notification system and their Weather Warning to get emergency notifications. Public awareness for this program has been pushed through social media, newspapers, public events and radio broadcasts. In addition to Everbridge, Aitkin County has also implemented the IPAWS system, which can alert those that are not subscribers of Everbridge of impending danger.

5. Increase in Vulnerability – Please describe any current conditions or changes that you feel has <u>increased</u> your community's vulnerability to future severe weather or disaster events. Please include anything related to population growth, zoning or development.

In the last few years, there have been several high rain events that have caused flooding in several areas of the county. With the rise in lakes and river waters, there is an old diversion channel and levee on the edge of the city of Aitkin that the Army Corps of Engineers has stated will not function, as it should. The residents in that area are in danger of flooding.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

Aitkin County Emergency Management has an Emergency Operations Plan that is updated on a regular basis which helps the county be ready to respond to disasters across a range of emergency management functions. This includes plans in place for sheltering and pet sheltering in the event that people are displaced from their homes following a disaster.

Aitkin County has a comprehensive plan in place and capital improvements plan that plan for future development within the county.

Aitkin County participates in the National Flood Insurance Program (NFIP).

Aitkin County's Environmental Services Department maintains the floodplain maps and floodplain management ordinance for the county.

The Aitkin County Environmental Services Department administers land use and zoning ordinances for rural and unincorporated portions of Aitkin County, including for floodplains and shoreland.

Aitkin County Highway Department maintains an annual Transportation Improvement Plan (TIP) that identifies and schedules road improvement projects that include culvert and drainage improvements to reduce over-the-road repetitive flooding. The current Aitkin County TIP is in place for 2019-2023.

Aitkin County Zoning Ordinance Section 5.5 of the Shoreland Management Ordinance addresses stormwater management.

The Aitkin County Land Use Management Plan (2000) addresses goals for the management of drainage ditches.

The Aitkin County Highway Department has a snow removal policy.

The Aitkin County Public Health Department works with the owners of manufactured home parks (MHP's) within the County to ensure that they are meeting Minnesota Department of Health (MDH) requirements for storm shelters and evacuation plans.

Aitkin County Environmental Services Department has an ordinance in place for bluff setbacks to be at 30 feet regardless of erodibility. It includes any bluff regardless of whether it drains towards the water body or if it is over 300 feet from a river or 1000 feet from a lake.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

Aitkin County staff related to mitigation efforts include the emergency management director (sheriff) and deputy emergency management directors (2), county administrator & county board, county engineer, environmental services director, health & human services director, GIS department director, and a land department director. Aitkin County works closely with the Aitkin County Soil & Water Conservation District (SWCD).

We partner with the American Red Cross (ARC) to establish MOU's with facilities in the county to serve as official shelter locations that meet ARC shelter requirements for space and accessibility.

We have close working relationships with emergency managers in MN HSEM Region 2 and support each other in emergency mitigation and preparedness planning, exercises and emergency response, when needed.

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

Aitkin County Emergency Management utilizes our Sheriff's Office Facebook page and local news media to communicate with residents and visitors on emergency preparedness. A link for the Everbridge emergency notification system is located on the Aitkin County website.

Aitkin County Emergency Management participates in and promotes the NWS Severe Weather Awareness Weeks in spring and fall each year and also works with the NWS to provide SKYWARN storm spotter training on an annual basis.

Aitkin County Emergency Management and Aitkin County Public Health promote public awareness of personal safety measure to take during periods of extreme heat, such as minimizing exposure and staying hydrated.

The Aitkin County SWCD manages a Volunteer Rainfall Monitoring Network program for the county. The program is part of the MnGAGE program administered by the Minnesota State Climatology Office.

The Aitkin County SWCD has numerous programs focusing on providing information and technical assistance to landowners, shoreland protection & buffers, and public education. In 2020 the SWCD also started a large county wide culvert inventory. The end result will be a map for each township that contains the locations, condition, size and type of all the culverts in the township road and county road right of ways. The aim of this project is to get an increased understanding of the watersheds and use the gathered information to quickly solve water flow problems.

Aitkin County Emergency Management participates in regional emergency management exercises for Region 2.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

Projects that mitigate highway flooding are included in the Aitkin County Capital Infrastructure Program using local, state, and federal highway construction funding. In addition, state and federal grant programs for targeted flood mitigation projects are utilized on a case-by-case basis when funding is available.

The only funding the county's planning & zoning dept. has received for flood mitigation was from the State and FEMA for collection and disposal of flood damage materials from properties that were damaged during the flood of 2012.

Just after the 2012 flood event, the Aitkin County SWCD had access to some additional flood damage funds for cost-share assistance to landowners. The funds were used to help landowners complete multiple erosion control and revegetation projects in the county. Timeline for those funds was approximately 2013 through 2015.

5. Other Questions:

 Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No plans at this time.

- Who is your local municipal or rural electric coop provider?

Mille Lacs Electric, Lake Country Power

How do you encourage residents to sign up for emergency notifications?

A link for the Everbridge emergency notification system is located on the Aitkin County website and reminders are put out on the Sheriff's Office Facebook page as well as public events, radio and newspaper during the NWS's Severe Weather Awareness Week.

- Do you have (or need) portable or permanent back-up generators for specific critical facilities?

Generator back-up power is in place for the Aitkin County EOC, courthouse, public works building, jail, sheriff's office and dispatch. Additional generators may be needed for other county facilities as well as our designated shelter facilities.

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

An upgrade is needed for the warning siren at Big Sandy Lake. The cities of Palisade and McGrath also do not have warning sirens and should be installed.

Continue to do outreach to promote residents to be prepared for emergencies, to have NOAA weather radios, and to sign up for the county's Everbridge system and Sheriff's Office Facebook page to receive emergency notifications and other information.

Work with municipalities / rural electric coops to encourage them to address burying powerlines or strengthening power poles to avoid power outages from high wind events and storms.

Provide support to communities to identify where storm shelters or tornado safe rooms are needed and assist in applying for grant funding (i.e., USDA, FEMA HMA)

Encourage long-term care facilities that house senior citizens or other vulnerable populations to have emergency plans and generators in place to deal with severe weather, power outages and extreme temperatures.

Update the Aitkin County Community Wildfire Protection Plan (CWPP) "equivalent" with the MN DNR or develop a full CWPP. More can be done in Aitkin County with the Firewise Program such as public education and helping property owners improve defensive space.

Address road improvements, ditch maintenance and bank stabilization projects needed to mitigate against high rain events as identified by the Aitkin County highway engineer and feedback from townships.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

Some roads, bridges, and culverts within Aitkin County continue to need improvements as they are impacted by annual high rain events. The county needs funding assistance to improve roads and culverts that experience repetitive flooding.

Continued culvert replacement to prevent road flooding is a strain on our smaller townships that have limited funding for road infrastructure.

Funding is always an issue when it comes to providing adequate shelters for campgrounds and resorts.

Power poles that have reached the end of their life are still in place and vulnerable to the high winds and ice storms that have become more frequent in our county.

Funding is needed for more sirens in the county, especially around highly populated lakes.

PART D: SURVEY PARTICIPANTS

Patrice Erickson, Dispatch Supervisor/Deputy EM Karla White, Jail Administrator/Deputy EM Jessica Seibert, County Administrator Tom Fistere, Dispatcher John Welle, Aitkin County Engineer Terry Neff, Environment Services Director Steve Hughes, SWCD District Manager

CITY OF AITKIN

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	Moderate	Increased
Ice Storms	X	Moderate	Increased
Tornadoes			
Windstorms	X	Moderate	No Change
Lightning	X	High	Increased
Hail	X	Low	Increased
Flooding	X	High	No Change
Extreme Cold	X	Low	No Change
Extreme Heat	X	Low	No Change
Drought			
Wildfire	X	Low	No Change
Landslides			
Dam Failure			

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

In mid-summer of 2017, we had a hail storm and two days later a windstorm that caused over 1-million dollars in damage to Brandl Motors, and caused extensive damage throughout the city to properties.

About 4 years ago (2016) a spring ice jam caused some flooding in the Ripple River on the South side of town. We reached flood stage but did not actually flood for the last two springs.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard (please list)	Vulnerability Assessment List & describe what specific structures, systems, populations, or other community assets are suspectable to damage and loss from specific hazard events.
Flooding	Homes, sewer collection and treatment are vulnerable to flooding.
Ice Storms/Blizzards	We have power lines and power poles that have failed or may fail due to
	heavy snow and ice. Ice storms are dangerous for the safety of roads. For

	blizzards it is difficult for the ambulance and first responders to safely respond.
Windstorms and	Downed trees, power outages, and downed power poles can occur. Blocked
Tornadoes	roads during storms makes it difficult for First Responders to get through.
Extreme cold/heat	Seniors & children are vulnerable to extreme cold especially if the power goes
	down during storm events.
Lightning	Fire damage can occur to houses and buildings, as well as a loss of power.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

We planted trees this summer to create a wind block (living snow fence) on Bunker Hill Drive. This will help to reduce blowing and drifting snow in winter.

We have backup generators for the well house and wastewater treatment facility. We also have a permanent levy around the substation.

We have used bigger power poles with shorter spans between them.

Increase in Vulnerability – Please describe any current conditions or changes that you feel
has <u>increased</u> your community's vulnerability to future severe weather or disaster events.
Please include anything related to population growth, zoning or development.

As the city expands there will be an increase in the area that we are responsible for. Homes are being put into forested areas which makes them vulnerable to forest fires. The roundabout put in by MnDOT can also increase traffic accidents.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

We have a comprehensive plan, and we use our planning and zoning regulations.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

Our department heads work together when an emergency happens. Our fire chief is our designated emergency manager. We work with Aitkin county when needed.

3. Programs: Please describe any programs in place that help to accomplish mitigation in your community.

We recently upgraded our primary warning siren, and we added an additional siren. We participate in the county's comprehensive plan and hazard mitigation plan.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

We primarily use our own money to fund mitigation projects. For example, in 2012 our public utilities used their money to build a levy around the substation. We used federal grant money to add and upgrade the sirens.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No.

- Who is your local municipal or rural electric coop provider?

Aitkin Public Utilities and Mille Lacs Electric

- How do you encourage residents to sign up for emergency notifications?

The fire hall has an open house once per year, and they promote signing up.

- Do you have (or need) portable or permanent back-up generators for specific critical facilities?

We have one portable generator to service 11 stations, 1 portable generator to service the well house, and the treatment plant has a permanent generator.

We need generators for the fire hall, police department, and public utilities garage (cannot open garage doors without power). Every lift station should have its own generator.

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

We need a storm shelter plan in town.

We also need to increase the elevation and provide pump stations and a culvert on 4th Ave. NW in order to make sure we have access to the street shop, protect homes, protect the sewer collection system, and protect the substation.

We can also work to encourage residents to sign up for the County's emergency notification system using our city website and Facebook page.

We need generators for the fire hall, police department, and public utilities garage (cannot open garage doors without power). Every lift station should have its own generator.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

Funding.

PART D: SURVEY PARTICIPANTS

Rose Beverly, City Administrator Bob Nicko, Street Commissioner Dave Cluff, Public Utility Manager Paul Ryan, Interim Police Chief Brian Pisarek, Fire Chief

CITY OF HILL CITY

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	Low	No Change
Ice Storms	X	Low	No Change
Tornadoes	X	Moderate	No Change
Windstorms	X	Moderate	No Change
Lightning			
Hail			
Flooding	X	Moderate	No Change
Extreme Cold	X	Moderate	No Change
Extreme Heat		Low	No Change
Drought			
Wildfire	Х	Low	No Change
Landslides			
Dam Failure			

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

In 2016 we experienced heavy rain, wind damage to trees, street flooding and power outages for over a week in some areas. The city experienced major flooding in 2016 and 2018 that caused damage to the city campground, city roads and culverts as well as to private properties.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment
(please list)	List & describe what specific structures, systems, populations, or other community
	assets are suspectable to damage and loss from specific hazard events.
Flooding	Our city sewer lift stations are vulnerable to failure during flood events if the
	power goes down or the lift station is flooded. Heavy rain impacts out city
	streets and alleys.
Windstorms and	We have a municipal campground without proper storm shelter where visitors
Tornadoes	are vulnerable to high winds events.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

The public works dept. is working on culvert improvements and ditching to help with the heavy rains. We have encouraged businesses and residents to enroll in the county's Everbridge emergency notification system so they will be aware when heavy rain may cause flooding impacts. The city has recently increased use of our website and Facebook page to communicate with residents on emergency preparedness.

Increase in Vulnerability – Please describe any current conditions or changes that you feel
has <u>increased</u> your community's vulnerability to future severe weather or disaster events.
Please include anything related to population growth, zoning or development.

In general, we have noticed an increase in more frequent high-rain events in the last 5 years. We have an increased vulnerability in that our bathhouse/storm shelter is too small now. We have added six new RV sites to our campground. This increases the number of people in the park. Ditching improvements still need to be done.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

The city participates in the National Flood Insurance Program (NFIP) and we have a floodplain ordinance in place. We are in the process of developing a capital improvement plan.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

Our fire chief is the city's designated emergency manager. We have a city engineer and a public works director that address road maintenance issues for flooding (culverts, repetitive flooding).

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

The city participates in the county's emergency alert system and we promote residents to sign up for it by having a link on our website to the registration site. Our local school practices tornado drills on an annual basis. Each fall & spring we do active outreach to clear leafy and woody debris from roadside gutters to prevent clogging and over the road flooding in these areas.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

The city primarily uses its own budget to address local mitigation measures, such as replacement of culverts. We have also worked closely with the county highway engineer on local flood mitigation projects for roads and the county zoning department when we updated our local floodplain ordinance. Short, Elliot and Hendrickson (SEH), the city's engineer, has helped with multiple city projects.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No

- Who is your local municipal or rural electric coop provider?

Lake Country Power

How do you encourage residents to sign up for emergency notifications?

It has been in our city newsletters and is on our website and Facebook

 Do you have (or need) portable or permanent back-up generators for specific critical facilities?

Yes

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

We would like to upgrade the city's warning siren.

We need a storm shelter or tornado safe room constructed at the local campground & RV park (Hill City Park and Campground) within the city. We don't have a specific area for trailer homes/mobile homes, they are throughout the town.

Public education is a standing need and homeowners would benefit from more information on how to be prepared for bad storms and extended power outages. We can continue to use our website and Facebook page to communicate with residents on emergency preparedness and encourage them to sign up for Everbridge.

We need a portable generator for our City Hall and community center, which is our designated community mass care shelter.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

Not all of our residents are signed up for the city's/county's emergency notification system. There is a lack of education to the public on emergency preparedness.

PART D: SURVEY PARTICIPANTS

George Casper, Head of Maintenance Lyn Benson, Council Member Tami Meyer, Deputy Clerk

CITY OF MCGRATH

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	Moderate	No Change
Ice Storms	X	Moderate	No Change
Tornadoes			
Windstorms	X	Moderate	No Change
Lightning	X	Moderate	No Change
Hail	X	Moderate	No Change
Flooding			
Extreme Cold	X	Low	No Change
Extreme Heat			
Drought			
Wildfire			
Landslides			
Dam Failure			

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

We had a lightning strike on a home that caused a fire and ruined the main panel to the city sewer system.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment
(please list)	List & describe what specific structures, systems, populations, or other community
•	assets are suspectable to damage and loss from specific hazard events.
Lightning	Lightning can cause a fire if it strikes any structures or it can damage city
	infrastructure such as the power to our city sewer system.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

Every year the city is improving drainage with new culverts and ditches. We have not had any flood issues.

Increase in Vulnerability – Please describe any current conditions or changes that you feel
has <u>increased</u> your community's vulnerability to future severe weather or disaster events.
Please include anything related to population growth, zoning or development.

None.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

We have nothing specific for mitigation.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

We are a small city with a population of 50. We have a mayor, city council and a city clerk. We work with Aitkin County as needed.

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

We participate in the county's Everbridge emergency notification system.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

We have a limited city budget and work with Aitkin County as needed.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No.

Who is your local municipal or rural electric coop provider?

East Central Energy

How do you encourage residents to sign up for emergency notifications?

We currently do not do anything. The Aitkin County Sheriff's Office website has a link for residents to sign up for the emergency notification system.

 Do you have (or need) portable or permanent back-up generators for specific critical facilities?

We do not have a generator. It would be good to have one on hand.

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

We do not have a generator or a tornado safe room. Both would be nice. We can also seek to encourage residents to more actively sign up for the county's emergency notification system by making announcements at meetings or posting flyers in public areas.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

None.

PART D: SURVEY PARTICIPANTS

Dawn Clark, City Clerk

CITY OF MCGREGOR

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	High	Increasing
Ice Storms	X	High	Increasing
Tornadoes	X	High	No Change
Windstorms	X	High	Increasing
Lightning	X	Moderate	No Change
Hail	X	Moderate	No Change
Flooding	X	High	Increasing
Extreme Cold	X	Moderate	No Change
Extreme Heat	X	High	Increasing
Drought	X	Low	Increasing
Wildfire	X	High	Increasing
Landslides		Low	No Change
Dam Failure		Low	No Change

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

Over the last five years the city has experienced power outages, minor storm damage and abnormally high-water levels as well as near drought conditions. The city proper has not seen any severe weather damage in this time period, but our emergency services response area is approximately 750-square miles surrounding the city of McGregor, which has had numerous storm events during this time period.

Local Vulnerabilities: Please use the chart below to identify what specific critical
infrastructure (i.e., structures or systems), populations, or other assets in your community
are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment
(please list)	List & describe what specific structures, systems, populations, or other community
	assets are suspectable to damage and loss from specific hazard events.
Flooding	Our city sewer lift station is vulnerable to failure during flood events if the
	power goes down or the lift station is flooded. There are many residents of the
	city that lack the ability to evacuate on their own and subsequently require
	shelter during a flood. The ability to sustain emergency operations is critical to

	the management of flooding, so having backup power for our fire station will
	ensure operational success.
Ice Storms, Blizzards	We have power lines and power poles that may fail due to heavy snow and ice storms. Having a location with backup power to house displaced vulnerable residents during prolonged power outages is needed. Our ambulance service has medication and supplies that must be stored at constant temperatures and would be damaged if the fire hall was not heated during an extended power outage. Having a fire station that remains operational in the event of a long-term power outage is mission critical to any other emergency that would arise i.e., house fire.
Windstorms and	Both of the city's mobile home parks are without storm shelters, which leaves
Tornadoes	the residents vulnerable to high wind events. Our current metal frame fire hall
	is without a shelter for emergency crews during storm events. Having back-up
	power for our fire station, water tower and sewer system is critical.
Extreme Cold	Our seniors & children are vulnerable to extreme cold especially if the power
	goes down during extreme cold events. To be able to use our fire station, city
	hall and/or community center as a shelter and remain operational.
Extreme Heat	We have a high number of elderly residents in our city, so having a place to shelter this vulnerable population during a heat emergency is critical.
Wildfire / Drought	The entire city is surrounded by grassy wetlands that interface directly with the
	majority of our residential and commercial structures. Wildland fire could
	disrupt every system in the city including our sewer system. Wildfire has the
	potential to damage power poles and our local power substation, having back-
	up power for our water tower to sustain firefighting operation would be critical.
Lightning	Our fire department's VHF communications tower was struck by lightning and
	disabled our backup emergency communications system. The lightning also
	did damage to other electronics in the fire hall.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

The city has been working for the last 10 years to replace Aitkin County Ditch 5. According to the county engineer this ditch is restricting enough flow to raise the water table by 3 to 4 feet around the east and south sides of McGregor. Replacing this ditch would help to reduce the chance of flooding from a high rain event by returning the area to historic water table levels.

We have identified several culvers on Highway 65 N of the Highway 210 intersection that are holding back water on the west side of McGregor.

The maintenance department has removed 16 beavers and are working with the MN DNR to remove two beaver dams on the Sandy River north of McGregor near highway 65. The city drainage is being restricted by beaver dams in surrounding waterways and culverts.

The city maintenance department has identified the need to replace the standby generator at the primary sewer lift station as it is not reliable. In a normal day, the lift station pumps operate

about 1 hour per day, but during the 2012 flood event the pumps ran 24-hour per day due to ground water entering the sewer system. Without reliable backup power this could cause a catastrophic failure of the system.

The maintenance department has also identified several homes that could potentially flood during a high rain event. This appears to be from loss of ditching to prior road construction.

The city's maintenance department has begun smoke testing the sewer lines to find areas that have ground water infiltrating. Increased ground water pressure during flooding could always water to enter and overwhelm the sewer system.

The city is planning to replace our current metal frame fire station with a precast concrete structure that will better withstand extreme weather conditions.

5. Increase in Vulnerability – Please describe any current conditions or changes that you feel has <u>increased</u> your community's vulnerability to future severe weather or disaster events. Please include anything related to population growth, zoning or development.

The Riverwood Clinic is constructing a new larger facility, which is an area that was flooded in 2012.

Our community has an increasing percentage of elderly and other vulnerable populations.

McGregor High School is expanding it footprint and there is a plan to construct a 28-unit affordable housing apartment building in the city.

There has been an increase in high rain events in the area over the last 5 years.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

We currently participate in the NFIP, but were unable to find a Floodplain Ordinance.

We are working with county engineer and WSB Inc. to improve water flow through Ditch 5.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

The city maintenance department identifies flooding issues. The McGregor Fire Department does prescribed burns around the city to mitigate heavy fuel loads surrounding the city. We also work with Aitkin County Emergency Management when needed.

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

The city participates in the county's Everbridge emergency alert system and our warning siren is activated via the Aitkin County Sheriff's Office Dispatch remotely.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

The city uses its own budget to do routine culvert maintenance and beaver removal.

We are working closely with the Aitkin County engineer to move forward on the Ditch 5 project, but both parties currently lack funding to move forward with the project.

We receive a yearly \$2,500 matching grant from the MN DNR for wildfire equipment.

In 2020 we received a \$10,000 grant from the wellhead protection district for capping wells.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No, we do not at this time, but it would be a benefit to the continued vitality of our community.

- Who is your local municipal or rural electric coop provider?

Mille Lacs Energy Coop

- How do you encourage residents to sign up for emergency notifications?

We have not done anything to date, but this process has sparked our interest in doing so.

- Do you have (or need) portable or permanent back-up generators for specific critical facilities?

We have one permanent back-up generator for our main sewer lift station and one portable trailer mounted unit. Both are 30+ years old. We do not current have generators for our community center, fire station or City Hall.

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

The city has had many complaints about not having storm shelters for residents that live in mobile homes so we would like to find funding to construct shelters.

The city's emergency warning siren was designed to notify firefighters of fire calls 60 years ago and the sound is blocked to the east as the siren is lower than the fire station next to it. The city has received complaints about residents not being able to hear the warning siren inside their homes during the monthly tests. The current warning siren does not cover our manufacturing district or the assisted living facility. We would like to replace our current siren and add an additional siren to better cover the city. We can also work to encourage residents to sign up for the county's Everbridge emergency notification system to receive emergency alerts, which would include for dangerous high winds or tornadoes.

We would like to replace Ditch 5 to make sure we do not have continue to have artificially highwater table so we can better handle high rain events.

The city maintenance department has identified the need to add and replace generators that back up the city's water and sewer system. Having operable sewer and water system is critical not just for the city, but the surrounding townships may need to shelter in the city during a disaster.

The city also identified the need to add standby power generators to the fire hall, community center, and City Hall in order to maintain critical operations and provide emergency shelter locations for city and surrounding residents.

The city would benefit from educating the residents on the wildland-urban interface and how to reduce the risk to property from wildfire.

The city is planning to replace our current metal frame fire station with a precast concrete structure that will better withstand extreme weather conditions.

The city participates in the NFIP but needs to ensure we have a floodplain ordinance in place.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

The trend of people migrating to mobile phones as their source of entertainment and information could leave residents unaware of storm alerts, so creating a campaign to get residents to use weather alert apps and signing up for the Aitkin counties Everbridge automated alert system would improve safety.

The city and county lack funding to complete the Ditch 5 project that would mitigate flooding in the city.

The city lacks funding to implement a wildland fire safety program and reduce fuel loads.

The city lacks funding to upgrade current generators for the sewer system and add generators to the Fire Hall, City Hall and Community Center.

The city lacks funding to construct appropriately sized storm shelters for the 2 mobile home parks and fire hall.

The city lacks funding to upgrade our outdoor warning siren which is needed so that all residents can be notified effectively.

PART D: SURVEY PARTICIPANTS

Dake Olson, Mayor Larry Paukert, Head of City Maintenance Deanna Casale, City Clerk James Carr, Fire Chief Penny Olson, Ambulance Service

CITY OF PALISADE

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	Moderate	Increasing
Ice Storms	X	Moderate	Increasing
Tornadoes	X	High	No Change
Windstorms	X	High	Increasing
Lightning	X	Moderate	No Change
Hail	X	Moderate	No Change
Flooding	X	High	Increasing
Extreme Cold	X	High	No Change
Extreme Heat	X	High	No Change
Drought	X	Low	Increasing
Wildfire	X	Moderate	No Change
Landslides		Low	No Change
Dam Failure		Low	No Change

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

Over the last 5 years the city has experienced numerous severe storms that have caused wind storms that downed trees, hail damage to city structures, and power outages that affected both water and wastewater systems.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment
(please list)	List & describe what specific structures, systems, populations, or other community
-	assets are suspectable to damage and loss from specific hazard events.
Flooding	We have an aging population, and some would be unable to evacuate to a safe
	place on their own; they would require assistance to mobilize and a place to
	shelter during a flood. Having backup power systems to sustain emergency
	operations would be critical. The city has no generator.
Ice Storms, Blizzards	Power lines may go down and take-out power for prolonged periods. Having a
	shelter with back-up power would help those most vulnerable to cold and may
	require power for oxygen and medications that are temperature sensitive.

	Having equipment at the fire hall must also be maintained and ready to
	respond to any other emergencies in the city and our surrounding service area.
Windstorms, Tornados	Our outdoor warning siren was struck by lightning and has not been replaced, so we cannot alert our residents to a tornado by this siren. We also have very limited space for citizens to shelter safely that is accessible for the elderly and disabled. We also have more mobile homes that are going up and a county park with RV parking that is managed by the city; it is full from Fishing Opener to Hunting Season.
Extreme Cold/Heat	Should power go out, we need a place like our community center/fire hall
	where vulnerable seniors and children can go to be safe.
Wildfire	Having back-up power to our water tower is critical to our fire department
	fighting fires.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

The city is working on a grant for a city street project to create a catch basin for flood water. We also have completed a comprehensive plan with the involvement of the community, city leadership and the Arrowhead Regional Development Commission (ARDC). We also recently completed a wellhead protection plan. We identified needs and where perhaps we can get grants. The 2020 pandemic has put severe delays in plans due to high costs of supplies and slower responses to requests for quotes.

5. Increase in Vulnerability – Please describe any current conditions or changes that you feel has <u>increased</u> your community's vulnerability to future severe weather or disaster events. Please include anything related to population growth, zoning or development.

Approximately 10 new permanent mobile homes are coming into the city due to Enbridge, as well as other workers temporarily sheltering in RVs. There is no established shelter from storms for these people in mobile homes and RV's so they are at higher risk during severe storms.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

We have a comprehensive plan designed to address future needs and a wellhead protection plan. We also have joined MnWARN for emergency/disaster assistance that include both water and wastewater support.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

Our fire chief is the city's designated emergency manager. Our city council, mayor, department heads and city clerk work together to find solutions to address emergent situations and look for longer term answers to challenges.

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

We participate in the county's Everbridge emergency notification system. In non-pandemic times our fire department hosts a safety awareness/fire prevention day for our city and the surrounding townships we serve. The Aitkin County Sheriff's Department and other community resources usually have information booths and experiences for the kids.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

The city has received and has grants in the works with USDA, MDH, IRRRB, Blandin Foundation, FEMA to name a few in the last few years.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No

- Who is your local municipal or rural electric coop provider?

Mille Lacs Electric Cooperative

- How do you encourage residents to sign up for emergency notifications?

We have not done anything to date but we wish to start soon.

- Do you have (or need) portable or permanent back-up generators for specific critical facilities?

We do not currently have any generator for the city, but would need portable and/or permanent back-up generators for our water tower/pump, our wastewater system and fire hall (doors are difficult to open without power).

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

We need to repair and/or replace the city's outdoor warning siren. It was struck by lighting and does not work.

We would like a cell tower in the city as service is very spotty and citizens have not received alerts if they are signed up for notifications on their cell phones.

We would like to purchase at least two portable generators on wheels and perhaps a permanent one for the fire hall/community center.

Install a new monitoring panel for our wastewater system. The existing monitoring panel is obsolete and replacement parts cannot be obtained. A new monitoring panel would allow remote monitoring and allow for long-term savings.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

Funding is an issue as with most things. A stronger social media presence by the city would be beneficial to encourage residents to sign up for the county's emergency notification system and to provide other emergency preparedness information. We do not have a city website or Facebook page.

PART D: SURVEY PARTICIPANTS

Maureen M. Mishler, City Clerk/Treasurer Jan Hart, Maintenance Supervisor Sharon DeWitt, City Councilor Jere Gruhlke, Fire Chief

CITY OF TAMARACK

PART A: HAZARD IDENTIFICATION, RISK ASSESSMENT & VULNERABILITY ANALYSIS

1. Hazard Identification & Risk Prioritization: Please fill out the following chart, indicating the natural hazards that pose risk to your community, your priority level of those hazards and if the priority of those hazards has changed over the last 5 years or since the last plan.

Natural Hazard	History Mark "X" for hazard events that have occurred within your jurisdiction.	Risk Prioritization Indicate the priority level of this hazard in your jurisdiction using HIGH, MODERATE or LOW. Consider the anticipated likelihood of future events and the potential impacts to life safety, structures, systems, vulnerable populations or other community assets.	Change in Risk Note if you feel the risk of this hazard is INCREASING, DECREASING, or has had NO CHANGE in your jurisdiction. You may add comments if needed.
Blizzards	X	High	No Change
Ice Storms	X	High	No Change
Tornadoes	X	High	Increasing
Windstorms	X	High	Increasing
Lightning	X	Moderate	No Change
Hail	X	Moderate	No Change
Flooding			
Extreme Cold	X	High	Increasing
Extreme Heat	X	High	Increasing
Drought			
Wildfire	X	High	No Change
Landslides			
Dam Failure			

2. Recent Hazard Events: Please describe any severe weather or disaster events that have occurred over the last 5 years that caused damages or loss of life in your community.

We have had a few major hail storms in the last 5 years. We have also had some high wind storms and grass fires ignited by sparks from the railroad and cigarettes being thrown out by passing motorists.

3. Local Vulnerabilities: Please use the chart below to identify what specific critical infrastructure (i.e., structures or systems), populations, or other assets in your community are suspectable to damage and loss from specific hazard events.

Natural Hazard	Vulnerability Assessment	
(please list)	List & describe what specific structures, systems, populations, or other community	
,	assets are suspectable to damage and loss from specific hazard events.	
Flooding	Although the city of Tamarack wasn't affected within city limits by past flood	
	events, we did become an island because surrounding area highways (Hwy.	
	210) were flooded and we couldn't go anywhere.	
Windstorms / Tornado	City residents do not have basements because of the high level of the water	
	table, so they cannot take shelter during a severe storm event or tornado. We	
	are in need of a storm shelter or tornado safe room in Tamarack.	
Ice Storms	We have had power lines and power poles that have failed.	

Extreme Cold	When the power goes out there is no back up heat.
Extreme Heat	When the power goes out there is no cooling system.
Wildfire	Wildland fire is a real threat as we have swamp and trees surrounding the
	town. The railroad on the north side of town has set off a number of fires.
	Highway 210 is on the south side of Tamarack, and people throwing cigarettes
	out of car windows has started fires.

4. Reduction in Vulnerability - Please describe any particular actions your community has taken to <u>reduce</u> vulnerability against future severe weather or disaster events. This can include examples of any work that has been completed or is underway that you would consider mitigation, such as developing plans or implementing projects to deal with future heavy rainfall.

The city of Tamarack is finishing an upgrade to the sewer system. The city is also looking for donations to construct a pavilion with a storm shelter.

5. Increase in Vulnerability – Please describe any current conditions or changes that you feel has <u>increased</u> your community's vulnerability to future severe weather or disaster events. Please include anything related to population growth, zoning or development.

No noted increases in vulnerability.

PART B: LOCAL MITIGATION CAPABILITIES ASSESSMENT

1. Plans, Authorities & Policies: Please describe what specific plans, authorities or policies are in place to help accomplish mitigation in your community.

We use the county and state for zoning policies. We participate in the county's hazard mitigation plan update every 5 years.

2. Organizational Capacity: Please describe what staff or partnerships are in place to help accomplish mitigation in your community.

The city of Tamarack has a small government in place (mayor, city council, and a city clerk). The city has great communication with the county sheriff. We also have a Tamarack Area Emergency Planners (TAEP) group.

3. Programs: Please describe any programs in place that to help accomplish mitigation in your community.

The city of Tamarack has an outdoor warning siren in place. We participate in the Aitkin County SkyWarn tranings and have 40 storm spotters. Tamarack Area Emergency Planners (TAEP) organization is still up and running.

4. Funding: Please describe any agency partnerships, funding or other resources to help accomplish mitigation in your community.

The city primarily uses its own budget to address local mitigation measures, such as replacement of culverts. We are in communication with the county engineer as needed.

5. Other Questions:

- Does your jurisdiction have any plans or policies in place (or in development) related to resilience and adaptation for climate change?

No

- Who is your local municipal or rural electric coop provider?

Lake Country Power

- How do you encourage residents to sign up for emergency notifications?

A link to the county's Everbridge emergency notification system is posted on our city Facebook page. We also make announcements at city council meetings and post information on local bulletin boards as well as in our city newsletter.

 Do you have (or need) portable or permanent back-up generators for specific critical facilities?

We do have a generator for our lift station. We would like a portable generator to use as needed when there is an outage. The generator would be used for a refrigerator (to take care of medications, food etc.) and to run water.

PART C: LOCAL MITIGATION PROJECTS

 Local Mitigation Projects: Please describe any specific mitigation activities you think would help to address local vulnerabilities and reduce risk against future hazard events in your community.

Work with Aitkin County Emergency Management to improve our emergency planning for the city. We want to have a good understanding of who we need to be contact with in the event of a major storm or disaster, as well as how we would get emergency transportation in the event we need to evacuate residents.

We would like to construct a pavilion & storm shelter / tornado safe room in a central location for city residents.

We need a portable generator to use as needed in the event the power goes out. (i.e., the ability to refrigerate medications for residents.)

We would like to increase our emergency preparedness information that we put into our monthly newsletter that goes out with the sewer billing. Some extra funding to do this would be helpful.

We would like to ensure that individual mobile homes within the city are physically secured for high-wind or tornado events. We would like to put a policy in place for building specifications for any future mobile homes in the city.

2. Gaps or Deficiencies: Please describe any specific gaps or deficiencies that are a barrier to implementing local mitigation measures.

Funding

PART D: SURVEY PARTICIPANTS

Bob Johnson, TAEP Ellen Cyrus, TAEP Kathy Haugse, City Clerk/Treasurer John Cyrus, Mayor

Appendix D – Plans & Programs in Place

Aitkin County MHMP Plans in Place Form

Planning & Regulatory

Planning & Regulatory		
Plans/Programs	Yes/No	Comments
Comprehensive/Master Plan	Yes	Aitkin County Comprehensive Land Use Plan, Adopted April 2020
Capital Improvements Plan	Yes	
Economic Development Plan	Yes	
Emergency Operations Plan	Yes	Aitkin County Sheriff's Office – Emergency Management updates county EOP
Climate Adaptation Plan	No	
Continuity of Operations Plan	Yes	County, cities, schools
Transportation Plan	Yes	County Hwy. Dept.
Stormwater Management Plan	No	No county plan – these are city-level plans.
Community Wildfire Protection Plan	Yes/No	MN DNR Firewise Coordinator notes Aitkin County has a CWPP equivalent, but unable to locate a copy.
FireWise Program	No	
Water Conservation/Emergency Preparedness Plan	Yes	brochures
Wellhead Protection Plan	Yes	Aitkin County Environmental Services has a wellhead protection plan for campgrounds. Cities have their own plans.
Database of dry hydrants/well access	Yes	Layer on CAD map
Burning permits/restrictions	Yes	MN Dept of Nat Res.
Water Management Plan	Yes	This is a city plan
Zoning ordinance	Yes	
Subdivision ordinance	Yes	
Floodplain ordinance	Yes	
Natural hazard specific ordinance (stormwater, steep slope, wildfire)	Yes	Aitkin County Buffer Ordinance, Sept. 12, 2017.
Flood insurance rate maps	Yes	

Acquisition of land for open space and public recreation uses	No	
School closing policy/communications plan in event of inclement weather/temperatures	Yes	School districts take care of this
Mass Care Sheltering Plan	Yes	This plan is developed by Aitkin County Public Health. The PH plan for Mass Care is mentioned in the Congregate Care Annex of our Aitkin County EOP.
Designated Mass Care Sheltering Facilities (list available)	Yes	Falls under Public Health in coordination with American Red Cross to establish formal facility MOUs.
Tornado Safe Rooms/Outdoor Storm Shelters (list available)	Yes	Big Sandy Campground and Savanah Portage, Hill City School, and Aitkin Fire Hall is a public storm shelter.
Warning sirens (list all locations)	Yes	Sirens are located in Aitkin, Hill City, Tamarack, and McGregor. McGrath and Palisade do not have sirens. The communities of Big Sandy Lake and East Lake Community also have sirens purchased & maintained by the Mille Lacs Band.
SKYWARN Program	Yes	Volunteer spotters only
Emergency Mass Notification System	Yes	Everbridge
Severe Weather Awareness Week	Yes	NWS program in April
Winter Weather Awareness Week	Yes	NWS program in November
NOAA Weather Radios	Yes	
THIRA	Yes/No	Did it years ago, not updated since
Other *please describe		

Administrative & Technical

Administration	Yes/No	Comments
Planning Commission	Yes	
Mitigation Planning Committee	Yes	2020-2021 MHMP Planning Team
Maintenance programs to reduce risk (e.g., tree trimming, clearing drainage systems)	Yes	County Hwy. Dept.
Mutual aid agreements	Yes	
Staff	Yes/No	Comments
Chief Building Official	Yes	Jim Bright
Floodplain Administrator	Yes	Terry Neff
Emergency Manager	Yes	Sheriff Guida
Community Planner	Yes	Elected officials
Civil Engineer	Yes	John Welle
GIS Coordinator	Yes	Dan Haasken
Technical	Yes/No	Comments
Warning systems/services (Reverse 911, outdoor warning signals)	Yes	Everbridge, IPAWS, and system of outdoor warning sirens
Hazard data and information	Yes	Damage data from past disasters in the county on record.
Hazus analysis	No	

Education & Outreach

Program/Organization	Yes/No	Comments
		Public Health has
Local citizen groups or non-profit organizations focused on		volunteer groups,
environmental protection, emergency preparedness, access and		Search and rescue.
functional needs populations, etc.		Northern Chapter of
		the American Red Cross
	Yes	covers Aitkin County.
Ongoing public education or information program (e.g., responsible		Brochures have been
water use, fire safety, household preparedness, environmental		passed out at Fair and
education)	Yes	Commerce shows
Natural disaster or safety related school programs	Yes	Awareness weeks
StormReady certification	No	
Firewise Communities certification	No	
Public-private partnership initiatives addressing disaster-related		Schools, PH, elected
issues	Yes	officials coalition
Other *please list & describe		

Appendix E – Past Mitigation Action Review Status Report

Aitkin County

Past Mitigation Action Review Status Report

Following is a report on the status of mitigation actions related to natural hazards listed in *Section 5: Mitigation Strategy* of the Aitkin County 2014 Hazard Mitigation Plan. This report identifies those actions that have been completed, are being Deleted, or are ongoing. Mitigation actions that are noted as "ongoing" will be reviewed & revised as necessary based on the updated risk assessment and local input. This report covers the mitigation actions that were listed for implementation by the county and by city jurisdictions, as applicable.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
1	Violent Storms	Work with campground operators to post information regarding storm shelters and safety during strong summer storms.	Aitkin County, Aitkin, Hill City, Palisade	Ongoing	Campground operators will be encouraged to take action on this locally. Big Sandy Lake Campground, Savanna Portage State Park and the group camp at Savanna Lake have established storm shelters.
2	Violent Storms	Work with the appropriate jurisdictions or agencies to place safety information at boat landings throughout Aitkin County regarding what to do in case of severe weather.	Aitkin County, Aitkin, McGregor, Hill City, Palisade	Deleted	Not a strong mitigation action. MN DNR may post information at some boat access points.
3	Violent Storms	Work with mobile home park owners to ensure they are meeting the standards set by the Minnesota Department of Health for approved storm shelters or evacuation plans for times of high winds or tornadoes.	Aitkin County, Aitkin	Ongoing	Aitkin County Public Health and the city of Aitkin continue to work with mobile home park operators to be in compliance.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
4	Violent Storms	Promote the National Weather Service's "Severe Weather Awareness Week" held in April of each year. The event seeks to educate residents on the dangers of severe summer storm events and highlights the importance of preparing for severe weather before it strikes.	Aitkin County, Aitkin, McGregor, Hill City, Palisade	Ongoing	This is a regular part of EM public outreach & education that take place each year. Cities will be encouraged to continue to participate.
5	Violent Storms	Promote the National Weather Service's "Winter Hazard Awareness Week" held in November of each year. The event seeks to educate residents on the dangers of winter weather and how to properly deal with it.	Aitkin County, Aitkin, Palisade	Ongoing	This is a regular part of EM public outreach & education that take place each year. Cities will be encouraged to continue to participate.
6	Violent Storms	Review current information and delivery systems in place for public awareness and education of preparedness for severe winter and summer storms and improve upon them as needed.	Aitkin County, Aitkin, Palisade,	Ongoing	Aitkin County EM continues to review the effectiveness of public outreach tools and improve upon them as needed.
7	Violent Storms	Participate in annual "Skywarn Training" from the National Weather Service to train new storm spotters in Aitkin County and ensure existing storm spotters maintain their storm- spotting skill.	Aitkin County, Aitkin, McGregor, Hill City, Palisade	Ongoing	This is done annually in coordination with the NWS.
8	Violent Storms	Continue to ensure that procedures are in place so that emergency management personnel, county sheriffs, and other emergency response teams are notified as soon as possible in the event of an approaching storm.	Aitkin County, Aitkin, McGregor, Hill City, Palisade	Deleted	Emergency communications are a standard part of Aitkin County Emergency Management – this does not need to be a mitigation action.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
9	Violent Storms	Ensure that communication procedures are in place to effectively provide warning to residents and visitors in advance of approaching severe weather.	Aitkin County, Aitkin, Tamarack, Hill City, Palisade	Ongoing	Use of Everbridge emergency notification system, outdoor warning sirens, Sheriff's Office FB page and local media are all in place.
10	Violent Storms	Provide information to Aitkin County visitors and residents regarding how they can obtain information on severe weather and how to respond to dangerous weather conditions. Increase strategically located signage along roadways informing people about emergency information radio frequencies.	Aitkin County, Aitkin, McGregor	Ongoing	This is an ongoing effort of Aitkin County EM. Aitkin County is currently in the process of implementing the IPAWS program to warn visitors to the area of severe weather. Use of roadside signage is no longer relevant.
11	Violent Storms	Promote and educate Aitkin County residents, agencies, and communities about the use of NOAA weather radios for relaying weather-related emergency information.	Aitkin County, Aitkin, Palisade	Ongoing	NOAA weather radios are promoted as part of personal emergency preparedness during the NWS severe weather week and throughout the year.
12	Violent Storms	Work with local utility companies that serve Aitkin County to locate power lines underground or strengthen where it is feasible and cost effective to reduce the risk of power outages from downed lines during a severe storm. This could be done as part of new construction or as retrofit in areas deemed as high-priority.	Aitkin County, Aitkin	Ongoing	Cities will be encouraged to continue to work with their municipal / rural electric companies to reduce vulnerable overhead powerlines as deemed necessary and feasible.
13	Violent Storms	Maintain an aggressive right-of- way clearing program in order to reduce risks of downed trees interrupting the power supply.	Aitkin County, Aitkin	Ongoing	Aitkin County Hwy. Dept, local utility providers and local jurisdictions address tree management near powerlines.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
14	Violent Storms	Maintain an aggressive brushing program in order to reduce the amount debris that could block a road after a severe windstorm or winter storm.	Aitkin County, Aitkin	Ongoing	Aitkin County Hwy. Dept and local jurisdictions address vegetation management as needed.
15	Violent Storms	Maintain an updated database of facilities in the county that have shelter agreements with the American Red Cross and the capabilities of each shelter to provide mass care in the event of violent storms.	Aitkin County, Aitkin, McGregor, Tamarack, Palisade	Ongoing	Aitkin County Public Health works with the American Red Cross and local jurisdictions on keeping our list of mass care shelter facilities updated.
16	Violent Storms	Ensure there are personnel trained in shelter management within the County and each of its jurisdictions, engaging those who would play a role in emergency response leadership in the event of needing to activate a shelter for mass care.	Aitkin County, Aitkin, Tamarack, Hill City, Palisade	Ongoing	Overseen by Aitkin County Public Health.
17	Violent Storms	Research possible storm shelter and safe room locations within the County and each of its government jurisdictions including schools, mobile home parks, campgrounds or other areas where there are populations (residents or visitors) vulnerable to high winds and tornado events.	Aitkin County, Aitkin, McGregor, Tamarack, Palisade	Ongoing	Aitkin County Emergency Management & local jurisdictions will continue to address the need for tornado safe rooms or storm shelters where they may still be needed.
18	Violent Storms	Retrofit or construct new storm shelter and safe room facilities in the identified vulnerable locations with specific information on location and building type to construct or retrofit.	Aitkin County, McGregor, Tamarack, Palisade	Ongoing	Safe Room or storm shelter projects will be implemented as needed and as funding allows.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
19	Violent Storms	Identify critical facilities within the County and each of its jurisdictions that do not have a generator to supply backup power in the event of a severe storm taking out primary power for its facilities and essential functions. Critical facilities may include: police and fire stations, hospitals, water and sewer treatment facilities, and other facilities that the county deems critical.	Aitkin County, McGregor, Tamarack, Hill City, Palisade		Identifying where backup generator power is needed is an ongoing effort by all jurisdictions.
20	Violent Storms	Purchase generators or related equipment (e.g., generator hook-ups) that will support the operation of essential functions in identified County- and jurisdiction-owned critical facilities in the event of severe storms. Critical facilities may include: police and fire stations, hospitals, water and sewer treatment facilities, and other facilities that the county deems critical	Aitkin County, McGregor, Tamarack, Hill City, Palisade	Ongoing	Obtaining backup generators will be done by the County and local jurisdictions as funding allows.
21	Violent Storms	Work with respective road authorities to plant "living snow fences" or tree lines along identified problem areas of identified roads that can reduce snow drifts on the roads.	Aitkin County, Aitkin, Tamarack, Palisade	Ongoing	This does not occur by the Aitkin Hwy. dept or local jurisdictions. However it may be a project that MnDOT may address for state highways.
22	Violent Storms	Raise public awareness on driving conditions and snow removal policies for certain routes during times of dangerous snow or ice conditions.	Aitkin County	Ongoing	This falls under general public outreach & education on winter weather conditions and safety precautions.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
23	Violent Storms	Assure the functionality of warning systems for the areas with warning sirens in place. Warning sirens should be able to be remotely activated by the Aitkin County Sheriff's Office.	Aitkin County, McGregor, Hill City	Ongoing	Warning sirens are tested monthly by the Aitkin County Sheriff's Dept.
24	Violent Storms	Identify jurisdictions that do not have warning siren systems in place and have an expressed need for acquiring one to alert people in high risk, vulnerable areas (such as: campgrounds, parks and rural residents out of reach of other existing warning siren systems) to approaching severe weather.	Aitkin County, Tamarack, Hill City, Palisade	ty, Palisade do not have sirens. Existing outdingty, warning sirens are lo	
25	Violent Storms	Install new warning systems in identified vulnerable locations (jurisdictions that do not have warning siren systems in place and have an expressed need for acquiring one to alert people in high risk, vulnerable areas such campgrounds, parks and rural residents out of reach of other existing warning siren systems) to approaching severe weather.	Aitkin County, Tamarack, Hill City, Palisade	Ongoing	See above - Cities of McGrath and Palisade.

#	Hazard	Mitigation Action	tion Jurisdiction Status		Comments
26	Violent Storms	Work with local jurisdictions, MN DNR and other key stakeholders to develop an Evacuation Plan for Aitkin County in the event of severe weather. The plan should make sure to address the evacuation of vulnerable populations, such as those in nursing homes or remote locations (such as Savanna Portage State Park or rural residential areas).	Aitkin Deleted County, Aitkin, McGregor, Tamarack, Hill City, Palisade		The Aitkin County EOP addresses evacuation for all-hazards and the Sheriff's Office will coordinate with any communities in the event of a necessary evacuation.
27	Violent Storms	Work to install shatter- resistant glass and other identified retrofitting measures to protect against the impact of severe summer storms at Riverwood Healthcare Center.	Healthcare Center		Critical facilities are responsible to identify and implement any needed improvements to their buildings to be more storm-ready.
28	Violent Storms	Work to provide increased first responder training for those that work in remote areas and serve the public in the County	Aitkin Deleted County, Aitkin, Tamarack, Hill City, Palisade		Not a relevant mitigation action.
29	Violent Storms	Investigate "Storm Ready" designation by the National Weather Service and submit an application if deemed appropriate.	Aitkin Deleted County, Aitkin, Tamarack, Palisade		The county does not plan to pursue NWS StormReady designation.
30	Extreme Temperatures	Expand information on risks of heat-related illnesses. Key audiences are the elderly and the younger population engaging in physically strenuous activities.	Aitkin County	Ongoing	Aitkin County EM and PH work to do outreach to remind the public of safety precautions during periods of high heat.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
31	Extreme Temperatures	Continue the winter storm awareness program. Key audiences are the elderly and the younger populations who may be more susceptible to the effects of freezing temperatures when outside.	Aitkin County, Aitkin, Hill City, Palisade	Ongoing	Aitkin County Emergency Management helps put out weather warnings in winter from the NWS on severe storms or temperatures.
32	Extreme Temperatures	Promote and educate Aitkin County residents, agencies, and communities about the use of NOAA weather radios for relaying weather-related emergency information.	Aitkin County, Tamarack, Palisade	Ongoing	Aitkin County Emergency Management continues to promote the use of NOAA weather radios.
33	Extreme Temperatures	Maintain an updated database of facilities in the county that have shelter agreements with the American Red Cross and the capabilities of each shelter to provide mass care in the event of extreme temperatures.	Aitkin County, Aitkin, McGregor, Tamarack, Palisade	Ongoing	Aitkin County Public Health works with the American Red Cross and local jurisdictions on keeping our list of mass care shelter facilities updated.
34	Extreme Temperatures	Ensure there are personnel trained in shelter management within the County and each of its jurisdictions, engaging those who would play a role in emergency response leadership in the event of needing to activate a shelter for mass care.	Aitkin County, Aitkin, McGregor, Tamarack, Palisade		Overseen by Aitkin County Public Health.
35	Wildfire	Educate area residents through the Firewise program on what they can do to reduce the risk of wildfires doing damage to their property through vegetation management and the use of fireresistant building materials.	Aitkin County, Aitkin	Ongoing	FW program will be looked at for how to promote wildfire education & local actions to reduce wildfire risk where most needed.

#	Hazard	Mitigation Action Jurisdiction Status		Comments	
36	Wildfire	Promote the use of financial assistance for fuel reduction efforts through the Firewise program by area property owners.	Aitkin Deleted County, McGregor		MN DNR FW program does not have funding for individual homeowner projects.
37	Wildfire	Promote, through new building codes, the use of building materials that can reduce the chance of property damage related to structural fires.	McGregor f		Building codes are in place. Metal roofs are an option that individual homeowners can pursue.
38	Wildfire	Pursue additional funding sources, if available, to supplement programs such as Firewise.	Aitkin County, Tamarack	Ongoing	If there are wildfire mitigation projects identified we will look at possible funding sources.
39	Wildfire	Maintain an ongoing effort to educate people how to respond in case of a large wildfire event so both residents and area visitors will know how to respond to warnings and are aware of evacuation routes.	Aitkin County, Aitkin, Hill City, Palisade	Ongoing	Ongoing as needed. Information on wildfire safety as well as warnings are pushed out to the public during times of high-risk for wildfire.
40	Wildfire	Work with fire departments to inventory areas where firefighting capacity is limited through availability of water and consider strategic installation of dry fire hydrants or water holding tanks.	Aitkin County, city fire depts.	Ongoing	Local FD's will be asked if this is an issue in areas not served by a municipal water source.
41	Wildfire	Planning staff on the city and county level, along with area fire chiefs, should coordinate to ensure new development will have adequate access and egress for emergency response vehicles.	Aitkin County, Aitkin	inty, / Delete may be relevant for	
42	Wildfire	Continue inter-agency and multi-jurisdictional efforts to identify, contain, and extinguish wildfires.	Aitkin County, Aitkin	Deleted	This is a standing effort through existing county and municipal mutual aid agreements for firefighting.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments	
43	Wildfire	Explore development of a Community Wildfire Protection Plan for Aitkin County with guidance from the MN DNR Firewise Community Specialist for Northeast Minnesota. Create plan as advised by MN DNR.	County, Aitkin, Tamarack County with guidance from the MN DNR Firewise Community Specialist for Northeast Minnesota. Create plan as advised by MN DNR		MN DNR FW Program has noted that Aitkin County has a CWPP equivalent on file but cannot locate a copy. An equivalent is addressed in the county EOP rather than a full CWPP. We will review the EOP to see how it is addressed and how an update may be conducted.	
44	Wildfire			Ongoing	Feedback will be sought from MN DNR and local jurisdictions to identify if any wildfire mitigation projects are needed.	
45	Wildfire	In the event of a blow- down of trees from a severe storm, work with respective partners in natural resources to manage removal of trees to reduce wildland fire fuel.	County, with Aitkin, Tamarack, Palisade		Post-storm cleanup & removal of downed trees is a regular effort by the County and affected jurisdictions.	
46	Flash Flood and Riverine Flood	Maintain bridge, road, and culvert infrastructure at a level that it is capable of sustaining a major storm event and will not be vulnerable to washouts.	Aitkin Ongoing County, Aitkin, Palisade		This is an ongoing effort by the Aitkin County Highway Dept. and local jurisdictions.	
47	Flash Flood and Riverine Flood	Steer development away from areas that may be difficult to serve with reliable road access.	Aitkin County, Aitkin, Palisade	Ongoing	County and cities have floodplain management ordinances enforced that detail where construction can and cannot take place in the floodplain.	

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
48	Flash Flood and Riverine Flood	Address ice dams that may impact the road system in a timely manner in order to prevent damage to infrastructure, in particular during spring thaw.	Aitkin County, Aitkin, Palisade	Ongoing	Aitkin County Hwy. Dept and local jurisdictions work to prevent spring over-the-road flooding from ice dams as needed.
49	Flash Flood and Riverine Flood	Within the County and its jurisdictions, identify public infrastructure in areas that are prone to flooding (such as culverts, roads and bridges, and government buildings) and pursue funding for making specific mitigation improvements to those identified pieces of infrastructure.	Aitkin County, Aitkin, McGregor, Tamarack, Palisade	Ongoing	County and local-level flood mitigation measures will continue.
50	Flash Flood and Riverine Flood	Maintain, and, where necessary, add storm water retention ponds to protect wastewater treatment facilities throughout Aitkin County.	Aitkin County, Aitkin, McGregor, Palisade	Ongoing / Delete	Keep as applicable. Input will be sought for any specific county or local needs.
51	Flash Flood and Riverine Flood	Work to increase communication between the Aitkin County Planning and Zoning department and the United States Army Corps of Engineers regarding flooding and flowage easements.	Aitkin County, Aitkin, Palisade	Ongoing	Revise as needed. The County works with the ACOE as needed on flooding related issues.
52	Flash Flood and Riverine Flood	Review stormwater management guidelines currently in place to ensure that they are adequate to limit post-development run-off and will not result in storm water run-off created flood damages.	Aitkin County, Aitkin, Palisade	Ongoing	Stormwater management efforts continue at the county and local level.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
53	Flash Flood and Riverine Flood	Communities without floodplain or shore land ordinances should develop such ordinances. The State Floodplain Management Act requires flood prone communities to adopt floodplain management regulations when adequate technical information is available to identify floodplain areas and enroll and maintain eligibility in the National Flood Insurance Program (NFIP).	Aitkin Deleted County, Aitkin, Tamarack		Aitkin County and cities that participate in the NFIP and have floodplain ordinances. There are 2 cities that do not participate (McGrath & Tamarack) as they do not have FEMA mapped high-risk areas.
54	Flash Flood and Riverine Flood	Work to update the floodplain maps for Aitkin County. Current floodplain maps are over 20 years old.	ain maps for Aitkin County, . Current Aitkin, ain maps are over McGregor,		Aitkin County will work with MN DNR as per their timeline for updating our DFIRM maps.
55	Flash Flood and Riverine Flood	Continue to enforce city and county ordinances governing development and setbacks in shoreline area. Aitkin County Ongoing On		Aitkin County Environmental Services/Zoning and local cities enforce existing floodplain & shoreline ordinances.	
56	Flash Flood and Riverine Flood	Identify minor localized flood reduction projects identified to lessen the frequency or severity of flooding and decrease predicted flood damages, such as the installation or modification of culverts, stormwater management activities, such as creating retention and detention basins, protection of sanitary sewer lift stations in flood-prone areas.	Aitkin County, Tamarack, Palisade redicted flood damages, uch as the installation or rediffication of culverts, commwater management ctivities, such as creating extention and detention asins, protection of anitary sewer lift rations in flood-prone		Aitkin County Environmental Services/Zoning, Aitkin County Hwy. Dept and local jurisdictions evaluate needed projects on an annual basis and following flood events.
57	Flash Flood and Riverine Flood	Install flow-rate meters (stream gauges) on rivers and streams that are prone to flooding highrisk, vulnerable properties.	Aitkin County, Tamarack, Palisade	Ongoing	Areas of concern will be identified for potential stream gauge meters.

#	Hazard	Mitigation Action	Jurisdiction	Status	Comments
58	Flash Flood and Riverine Flood	Acquire flood prone properties in the special flood hazard area and physically relocate existing structure(s) to outside of the special flood hazard area.	Aitkin Ongoing County, Tamarack, Palisade		Property buyouts for flood prone properties will be considered for the MHMP update as needed.
59	Flash Flood and Riverine Flood	Acquire at-risk structures and the underlying land in special flood hazard areas and demolish flood prone structures for the conversion of the land to open space.	Aitkin Ongoing Sal County, Aitkin		Same as above.
60	Flash Flood and Riverine Flood	Reduce potential infrastructure flood damages on utilities such as wastewater treatment, pipelines, and power facilities by dry proofing or wet proofing facilities that are flood prone.	ential Aitkin Ongoing re flood County, utilities such ter treatment, and power dry proofing fing facilities		County and localized flood risk reduction projects will continue as identified.
61	Drought	Continue to implement the monitoring of water table levels.	1		Overseen by MN DNR & Aitkin County SWCD.
62	Drought Educate the public on water conservation measures in times of approaching drought conditions and develop plans to limit water use for nonessential purposes, such as lawn watering, car washing, etc., during drought periods as necessary.		Aitkin County, McGregor, Tamarack, Hill City, Palisade	Ongoing	Education and outreach will occur on recommended water conservation measures and danger for wildfire during extended dry periods.
63	Drought	Strategically place livestock watering ponds on farms in the county to help offset the impact of drought on local farmers.	Aitkin County, Tamarack	Deleted	This falls under the responsibility of local farmers with livestock.



Aitkin County MHMP Update

Appendix F - Kickoff Meeting Documentation

Overview:

On May 5, 2020, U-Spatial@UMD hosted a kickoff meeting online that was attended by the Aitkin County Emergency Manager. The webinar included a project overview, U-Spatial@UMD's background, the roles and responsibilities of the Emergency Manager, the contents of the Multi-Hazard Mitigation Plan, the planning process, and the projected timeline of the project.

Attached Documentation:

- **Project Handout**: "Minnesota 2020-2021 Multi-Hazard Mitigation Plan Update Project Overview".
- **Webinar Slides**: "Minnesota 2020-2021 Multi-Hazard Mitigation Plan Update Project Kickoff Orientation Webinar"

Minnesota 2020-2021 Multi-Hazard Mitigation Plan Update Project Overview

During 2020-2021, U-Spatial from the University of Minnesota Duluth (U-Spatial@UMD) will be working to update Multi-Hazard Mitigation Plans (MHMPs) for 17 counties and 1 tribe. Our team consists of UMD staff who specialize in GIS applications and research and Hundrieser Consulting LLC, who specializes in stakeholder engagement and mitigation strategies.

Participating Jurisdictions

Aitkin, Carlton, Cass, Dodge, Itasca, Kandiyohi, Koochiching, LeSueur, Mahnomen, McLeod, Otter Tail, Renville, Rock, Sibley, Stevens, Traverse, Watonwan, White Earth Reservation.

Overview of Update Process

The U-Spatial@UMD team will coordinate with each Emergency Manager throughout the plan update process to engage participating jurisdictions and other stakeholders in the planning process. Following is an overview of key tasks that the U-Spatial@UMD team will facilitate to meet FEMA requirements in the update of each plan:

- Conduct 2 planning team meetings
- Conduct 2 periods of public outreach & engagement
- Assess Plans & Programs in Place to address natural hazards
- Conduct a Past Mitigation Action Review from past plan
- Update prioritization of natural hazards that pose risk
- Complete jurisdictional Local Mitigation Surveys (hazards, vulnerabilities & capabilities)
- Conduct hazard risk assessment for 1% annual chance floods using the Hazus GIS tool
- Inventory critical infrastructure
- Develop hazard profiles for each natural hazard (description, incident history, geographic variability, future probability, relationship to changing climate trends and local vulnerabilities)
- Develop 5-year jurisdictional Mitigation Action Charts

The planning process generally occurs over the course of 14-18 months from start to finish.

Contact

Stacey Stark, U-Spatial@UMD Director (MHMP Project Manager)

Phone: (218) 726-7438 / Email: slstark@d.umn.edu



University of Minnesota Duluth

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Overview of the MHMP Update Process

The U-Spatial@UMD team will coordinate with each Emergency Manager (EM), participating jurisdictions, and other stakeholders throughout the planning process. The plan update generally occurs over the course of 12-18 months from start to finish. Following is an overview of key tasks that will occur and the approximate timeline for completion. This list not represent a complete list of what the plan update entails.

Stage 1 Tasks (4-5 months)

- HMP kickoff meeting/webinar with U-Spatial@UMD
- Develop jurisdictional contact list for MHMP planning team
- Disseminate & document News Release #1 (plan update announcement)
- Complete Plans & Programs in Place Checklist
- Conduct a Past Mitigation Action Review from prior plan
- Complete Capabilities Assessment to address natural hazards
- Hold & document Planning Team Meeting #1
- Complete Local Mitigation Surveys (hazards, vulnerabilities & capabilities)
- Revisit prioritization of natural hazards that pose risk
- Assist U-Spatial@UMD with provision of key data
- Complete inventory of Critical Infrastructure

Stage 2 Tasks (4-6 months)

- Develop 5-year Jurisdictional Mitigation Action Charts
- Conduct hazard risk assessment for 1% annual chance floods using the Hazus GIS tool
- Develop hazard profiles for each natural hazard (description, incident history, geographic variability, future probability)
- Complete county profile sections and maps
- Complete hazard profiles for each natural hazard
- Complete Plan Maintenance section of draft plan

Stage 3 Tasks (2-3 months)

- EM review of Draft Plan
- Hold & document Planning Team Meeting #2
- Finalize Mitigation Action Charts
- Disseminate & document News Release #2 (Public Review & Comment Period)
- EM coordination of plan review by local government(s) & other stakeholders

Stage 4 Tasks (2-3 months)

- Post-public review revisions made to plan (as necessary)
- Draft Plan sent to HSEM for review & approval
- Draft Plan sent to FEMA for review & approval
- Post FEMA review revisions made to plan (as necessary)
- FEMA to send letter stating "Approval Pending Adoption" to EM
- EM to facilitate MHMP jurisdictional adoptions (County/Tribe and cities)

Ongoing - Quarterly 25% Local Match Tracking Quarterly to HSEM

As part of the MHMP plan update, EM's are required to submit quarterly reports to HSEM on their local 25% match accrued through MHMP activities during that quarter.

Minnesota 2020-2021 Multi-Hazard Mitigation Plan Update Project Kick-off Orientation Webinar

U-SPATIAL

University of Minnesota Duluth

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Webinar Purpose & Goals

The purpose of this webinar is to provide an orientation for Emergency Managers participating in 2020-2021 Multi-Hazard Mitigation Plan Updates.

- Introduce the U-Spatial@UMD Team and county contacts.
- > Provide an overview of the project.
- Clarify roles and responsibilities.
- Outline the planning process, discuss key tasks and timelines.
- Discuss next steps and answer your questions.

Introductions

U-Spatial@UMD Project Team



Stacey Stark Project Manager J-Spatial@UMD



Emergency Management Planning Consultant Hundrieser Consulting LLC



Steve Graham Research Associate, Flood Modeling Specialis

Emergency Managers:

- •Name, Title, and Jurisdiction
- •Past Experience with MHMP?

Minnesota HSEM:

Jennifer Davis, MN HSEM State Hazard Mitigation Officer

Project Overview

17 Counties:

Aitkin, Carlton, Cass, Dodge, Itasca, Kandiyohi, Koochiching, Le Sueur, Mahnomen, McLeod, Otter Tail, Renville, Rock, Sibley, Stevens, Traverse, Watonwan

1 Tribal Nation:

White Earth Band of Chippewa



Purpose

The Federal Disaster Mitigation Act of 2000 (DMA 2000) established programs and funding:

"to reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from **natural disasters**"

A local government plan is required in order to maintain eligibility for FEMA hazard mitigation grant programs.

MHMP's must be updated every 5 years

Flooding	Hail	Drought
Dam/Levee	Lightning	Extreme
Failure	Lighthing	Heat
Wildfire	Winter Storms	Extreme
wildine	Willter Storins	Cold
Windstorms	Landslides	Earthquakes
Tornadoes	Sinkholes & Karst	Coastal Erosion

Natural hazard categories for Minnesota MHMPs. Hazards may be omitted if low risk is demonstrated.

Why U-Spatial@UMD?

> Proven experience

Our updates of 30+ MHMPs, as well as the State MHMP, have been quickly approved by FEMA and adopted by counties.

Advanced Capabilities

Expertise in the application of GIS, HAZUS, and research supports plan development and meeting all FEMA requirements.

Ability to Expedite

A consistent and proven approach for multiple counties supports State & FEMA review of draft plans.

Planning Team

Our project team includes advanced GIS students and Hundrieser Consulting.

Overview of MHMP Update Process

U-Spatial@UMD Team Roles & Responsibilities

- ➤ Keep you informed about the progress of your plan.
- Facilitate Planning Team meetings.
- > Provide guidance to EM to conduct & document effective public
- Guide EM and planning team to complete key tasks for plan update.
- > Keep up-to-date on FEMA requirements and Minnesota guidance.
- Produce a quality plan that FEMA will approve.
- > Answer questions in a timely fashion.
- Provide quarterly reports to HSEM on your plan progress

EM Roles & Responsibilities

- Act as main Point of Contact.
- > Track required local 25% match.
- Coordinate engagement of MHMP Planning Team.
- > Conduct & document effective public outreach.
- > Participate in completion of key assignments for plan update.
- > Coordinate with other county/tribal staff to obtain information.
- Assist in timely review of draft document.
- Facilitate completion of local adoptions.

MHMP Planning Team

The MHMP planning team must include representation from local government, related stakeholders and neighboring jurisdictions.

- County/Tribal Government key officials and staff
- Cities required; Townships optional
- Other Related Stakeholders (i.e., Schools, Coops, MN DNR, etc.)
- Neighboring county/tribal jurisdictions

Key Tasks:

- Develop Jurisdictional Contact List.
- Hold & document Planning Team Meeting #1.
- ➤ Hold & document Planning Team Meeting #2.

Public Outreach

The plan update must document how the public was given the opportunity to be involved in the planning process and how their feedback was incorporated into the plan.

- Collect feedback on local-level concerns & mitigation actions.
- Use of local/social media, websites & community bulletin boards.
- Other outreach (i.e., attendance at City Council mtgs)

Key Tasks:

- ➤ Distribute & document News Release #1.
- Distribute & document News Release #2.
- > Conduct other public outreach (optional).

Hazard Risk Assessment and Vulnerability Analysis

The U-Spatial@UMD Team will work closely with each EM and key departments to provide information as needed.

Key Tasks

- > Review and contribute to critical infrastructure inventory.
- ${\blacktriangleright} \mbox{Identify specific, local-level impacts and vulnerabilities}.$
- Identify if and how risk priorities have changed since the last plan.
- Identify any factors (i.e., new development) that may increase the community's vulnerability to natural hazard events.
- Review social vulnerability factors.

Key Task Assignments

Hundrieser Consulting will coordinate with each EM and participating cities on key task assignments that will provide information required for the plan update.

Key Tasks

- Complete Plans in Place Checklist.
- > Complete Capabilities Assessment for Mitigation.
- Conduct Past Mitigation Action Review.
- Coordinate Local Mitigation Survey (LMS) Forms.

Mitigation Action Charts

Hundrieser Consulting will coordinate development of draft 5year jurisdictional Mitigation Action Charts (MACs) for the county/tribe and each participating city jurisdiction.

Key Tasks

- Complete Planning Team Mtg. #1 & Key Task Assignments.
- > Conduct local-level development of MACs.
- Hold Planning Team Mtg. #2 for MAC review.
- Complete final MAC revisions.

Draft Plan Review

The U-Spatial@UMD Team will work with each EM to conduct a review of the draft MHMP and provide an opportunity for public review & comment on the plan.

Key Tasks

- EM review of initial draft plan > Revisions made as needed.
- > Distribute News Release #2 public review & comment period.
- EM coordination of review by key stakeholders.
- Posting of draft plan online with comment form.
- Documentation and incorporation of public feedback.

Plan Submission

The draft MHMP will be submitted to HSEM and FEMA for review & approval. Timing for review & approval is generally within 1-2 months.

Key Steps

- U-Spatial@UMD will submit the draft plan & Plan Review Tool (PRT) to HSFM.
- HSEM will submit the draft plan & PRT to FEMA reviewer.
- > FEMA may respond with requests for revisions > U-Spatial@UMD to address revisions and resubmit plan.
- > FEMA will send a letter of Approval Pending Adoption (APA status)

Plan Adoption

After FEMA has provided APA status, the county/tribe and all participating jurisdictions must formally adopt the plan.

Notes

- Good jurisdictional participation will facilitate local adoptions.
- Adoption of the plan is required for HMA grant program eligibility.
- ➤ Example adoption resolutions are provided for county/tribal adoption and local city adoption. Townships may elect to adopt (not required).
- Resolutions are incorporated into the final MHMP (PDF) by the Emergency Manager or included as hard copies.

Timeline Overview

- >22-Month total timeline (March 2020 December 2021)
- Most plans take 14-18 months.
- > Staggering of plans will be required to complete update of risk assessments, research of hazard histories, etc. for each jurisdiction.
- Many tasks occur concurrently, others must be done in succession.

Due to the COVID-19 Pandemic, we recognize that timing for completing the update of all 18 plans may be affected. If necessary, HSEM will work to extend our project contracts with FEMA to accommodate an extended timeline.

Possible timelin	e for your plan	Red includes county action items
Stage 1 Tasks (4-5 months)	April – August 2020	HMP kickoff meeting/webinar with U-Spatial@UMD Develop Jurisdictional contact list for MHMP planning team Disseminate & document News Release #1 Hold & document Planning Team Meeting #1 Complete Plans & Programs in Place Checklist Complete Capabilities Assessment to address natural hazards Conduct a Past Mitigation Action Review from prior plan Complete Local Mitigation Surveys Revisit prioritization of natural hazards that pose risk Assist U-Spatial@UMD with provision of key data Complete inventory of Critical Infrastructure
Stage 2 Tasks (4-6 months)	August – November 2020	Develop 5-year Jurisdictional Mitigation Action Charts Hazus hazard risk assessment for flooding Develop hazard profiles for each natural hazard Complete county profile sections and maps Complete Draft Plan
Stage 3 Tasks (2-3 months)	December – February 2021	EM review of Draft Plan Hold & document Planning Team Meeting #2 Finalize Mitigation Action Charts Disseminate & document News Release #2 EM coordination of plan review by stakeholders
Stage 4 Tasks (2-3 months)	March – May 2021	Post-public review revisions made to plan (as necessary) Draft Plan sent to HSEM for review & approval Draft Plan sent to FEMA for review & approval

Local 25% Match

Each quarter EM's will be responsible to track and submit local match documentation to HSEM.

Notes:

- > EM's are provided with a "Master Match Tracking" Excel Workbook to document match MHMP activities, participants, and amount accrued.
- Regular reminders & guidance will be provided on tracking match.

Next Steps

U-Spatial@UMD Team members will coordinate each EM to commence work on several tasks that will take place over the next several months.

Notes:

- > We are sensitive to the workloads of EM's, particularly during COVID-19.
- > All information requests or assignments are in prepared form.
- > Please communicate your availability to complete/not complete work.
- > Plans most expired are priority; however, EM's with completed tasks move up in the que for plan development.

Questions?

What questions do you have for U-Spatial@UMD or HSEM about the MHMP update process?

Contact Information

Stacey Stark, MS, GISP

U-Spatial@UMD

slstark@d.umn.edu

218-726-7438

Example Plans:

https://z.umn.edu/hazardmitigation

Aitkin County MHMP Update JURISDICTIONAL CONTACT LIST

County Contacts

Name	Title	Phone	Email
Dan Guida	Sheriff/EM Director	218-927-7417	Dan.Guida@co.aitkin.mn.us
Jessica Siebert	County Administrator	218-927-7276	Jessica.siebert@co.aitkin.mn.us
Mark Wedel	County Board Chairman	218-838-9324	mark.wedel@co.aitkin.mn.us
Mike Dangers	Assessor	218-927-7340	mike.dangers@co.aitkin.mn.us
Andrew Carlstrom	Environmental Services	218-927-7352	andrew.carlstrom@co.aitkin.mn.us
Dan Haaskens	GIS	218-927-7391	dan.haaskens@co.aitkin.mn.us
John Welle	County Highway	218-927-7469	john.welle@co.aitkin.mn.us
Rich Courtemanche	Land Department	218-927-7333	rich.courtemanche@co.aitkin.mn.us
Courtney Dowell	Long Lake Conservation	218-768-4653	info@longlakecc.org
	Center		
Cynthia Bennett	Health & Human Services	218-927-7200	cynthia.Bennett@co.aitkin.mn.us
	Director		
Steve Hughes	SWCD District Manager	218-927-7284	Hughes.aitkinswcd@gmail.com
Erin Melz	Public Health Supervisor	218-927-7209	erin.melz@co.aitkin.mn.us
Stacey Durgin-Smith	Public Health EM	218-927-7224	stacey.durgin@co.aitkin.mn.us

City Contacts

CITY OF AITKIN

Name	Title	Phone	Email
Megan Workman	Mayor	218-546-3898	mworkman@ci.aitkin.mn.us
Rose Beverly	City Administrator	218-927-2527	cityadmin@ci.aitkin.mn.us
(Vacant)	Police Chief	218-838-9890	
Brian Pisarek	Fire Chief	218-838-0102	brian.pisarek@state.mn.us
Bob Nicko	City Street Commissioner	218-839-3145	streetdepartment@yahoo.com
Dave Cluff	Director of Public Utilities	218-839-1246	dcluff@aitkinutilities.com

CITY OF HILL CITY

Name	Title	Phone	Email
Dan Kingsley	Mayor	218-245-9427	kingsdan27@gmail.com
Tami Meyer	(Deputy) City Clerk	218-697-2301	cityhall@hillcity-mn.com
Paul Ryan	Police Chief	218-330-1481	pryan@aitkinpolice.com
Jeremy Nelson	Fire Chief	218-259-1481	jnelson@ci.grand-rapids.mn.us
George Casper	Maintenance	218-244-0440	maintenance@hillcity-mn.com

CITY OF MCGRATH

Name	Title	Phone	Email
Brian Clark	Mayor	218-393-6893	cityofmcgrathmn@yahoo.com
Dawn Clark	City Clerk	320-592-0155	cityofmcgrathmn@yahoo.com
Bob Dresser	Fire Chief	218-232-5136	Rcdresser2001@yahoo.com

CITY OF MCGREGOR

Name	Title	Phone	Email
Dake Olson	Mayor	218-391-4920	dakeolson@gmail.com
Deanna Casale	City Clerk	218-768-2717	mcgregor.city@gmail.com
James Carr	Fire Chief	218-820-1288	james.carr@ftr.com

CITY OF PALISADE

Name	Title	Phone	Email
Pamela Nordstrom	Mayor	218-845-0076	beaglenemo@yahoo.com
Maureen Mishler	City Clerk	218-845-2051	city@frontiernet.net
Jerry Gruhlke	Fire Chief	218-232-7750	Jg56469@gmail.com

CITY OF TAMARACK

Name	Title	Phone	Email
John Cyrus	Mayor	651-402-4455	j.ecyrus@gmail.com
Kathy Haugse	City Clerk	218-768-0975	cityoftamarack@frontiernet.net

Township Contacts

Name of Township	Name & Title	Phone	Email
Aitkin	Terry Betley, Chairperson	218-927-6359	terry.betley@gmail.com
Ball Bluff	Steven Saari, Chairperson	218-752-6635	s.saari54@yahoo.com
Balsam	Michael Kruse, Chairperson	612-810-2420	mkruse@mcgregorprinting.com
Beaver	Gilbert Eigsberg, Chairperson	218-768-2633	gilberteigsberg.319@msn.com
Clark	Frank DeMenge, Chairperson	218-380-6198	frankdemenge@gmail.com
Cornish	Randy Souter, Chairperson	218-409-2223	randpsout@yahoo.com
Farm Island	Tim Woodrow, Chairperson	218-831-6799	t_woodrow99@yahoo.com
Fleming	Robert Reich, Chairperson	218-845-2465	sdurose@frontiernet.net
Glen	Doug Coil, Chairperson	218-549-3301	dvcoil@yahoo.com
Haugen	Robert Nelson, Chairperson	218-392-0052	paparob52@yahoo.com
Hazelton	Daniel Bobseen, Chairperson	218-678-3920	bobseen@centurylink.net
Hill Lake	Duane Niesen, Chairperson	218-697-8104	dtniesen@yahoo.com
Idun	Laura Dunphy, Chairperson	320-592-3707	ljd56342@icloud.com
Jevne	Sandra DeMenge, Chairperson	218-839-8717	maybell8717@gmail.com
Kimberly	Donnie Miller, Chairperson	218-549-0615	donniemmiller@gmail.com
Lakeside	Stanly Miller, Chairperson	320-676-3301	smiller@isle.k12.mn.us
Lee	Michelle Brodhead, Chairperson	218-429-2652	mikkibees.mb@gmail.com
Libby	Michael Hall, Chairperson	218-259-2670	lakeimagination@gmail.com
Logan	David Tevis, Chairperson	218-845-2682	farmert@frontiernet.net
Macville	Kenneth Janssen, Chairperson	218-820-7615	dotbiskey@hotmail.com
Malmo	Paul White, Chairperson	320-684-2488	malmotownclerk@outlook.com
McGregor	Brent Amundson, Chairperson	218-768-3651	amundfam@yahoo.com
Millward	Randy Anderson, Chairperson	218-658-4570	elee123@frontiernet.net
Nordland	Ruth Nelson, Chairperson	218-927-4044	randdnelson@gmail.com
Morrison	Heidi Roettger, Chairperson	218-839-7259	heidiroettger@gmail.com
Pliny	Marion Klous, Chairperson	320-592-3381	deadstock@citlink.net
Rice River	Larry Koehler, Chairperson	218-670-0512	ricerivertwp@gmail.com
Seavey	Harold Harms, Chairperson	218-232-2935	doubleh10q@gmail.com
Salo	Charlene Vincent, Chairperson	218-768-7022	canddvincent@aol.com
Spalding	Duane Swedberg, Chairperson	218-821-8961	dswedberg@isd4.org

Shamrock	Allen Eld, Chairperson	612-254-8021	aleld@shamrocktwp.org
Turner	Norman Wiese, Chairperson	218-426-4219	thewieses@frontier.com
Spencer	Kevin Stromberg, Chairperson	218-839-9717	kevin.m.stromberg@icloud.com
Wagner	Paul Peterson, Chairperson	320-233-6758	circlingwolf@gmail.com
Verdon	Kent Lorentzen, Chairperson	218-752-6678	kent@niftywares.com
Wealthwood	Tom Veenker, Chairperson	218-678-3792	tv4fish@centurylink.net
Waukenabo	Debra Goble, Chairperson	218-845-2997	dgoble33@hotmail.com
Williams	Richard Mensing, Chairperson	320-592-3830	rbmensing@citlink.net
White Pine	Diane Stulc, Chairperson	320-592-3319	ronaldgeo@aol.com
Workman	James Berg, Chairperson	218-426-3634	Supervisor1@workmantownship.org

Other Stakeholder Contacts

Name of Agency/Org.	Name & Title	Phone	Email
Riverwood Healthcare	Rhonda Vetter, EM	218-513-4544	rvedder@riverwoodhealthcare.org
Aitkin School District	Dan Stifter, Superintendent	218-927-2115 ex.3420	dstifter@isd1.org
Hill City School District	Patrick Rendle, Superintendent	218-697-2394 ext.100	prendle@isd002.org
McGregor School District	Brad Johnson, Superintendent	218-768-2111 ext.5126	bjohnson@isd4.org
Savanna Portage State Park	Courtney Dowell, Park Supervisor	218-838-7928	courtney.dowell@state.mn.us
Lake Country Power Cooperative	Derek Howe, Director of Operations	218-326-7178	dhowe@lakecountrypower.com
Mille Lacs Electric Cooperative	Cory Brix, Line Superintendent	218-851-9775	cbrix@mlecmn.com
East Central Electric Cooperative	Christy Flaspeter, HR Manager	763-689-8069	Christy.flastpeter@ecemn.com
U.S. Army Corps of Engineers	Jeff Steere, Northern Headwaters Section Supervisor	218-426-3482	jeffrey.l.steere@usace.army.mil
Jacobson Fire Department	Dale Thompson, Fire Chief	218-244-2238	dalethompson@frontiernet.net
South Aitkin First Responders	Scott VanHatten	218-549-0650	svanhatten@fontier.com
MN DNR Forestry	Glendon Nyberg, Forester	218-330-9370	glendon.nyberg@state.mn.us
MN DNR FireWise Program	Jeff Jackson, NE MN Firewise Coordinator	218-328-8909	Jeffrey.Jackson@state.mn.us
Minnesota Dept of Transportation	Todd Sangren, Area Supervisor	218-828-5734	Todd.Sangren@state.mn.us
USDA Rural Development Community Programs	Tyler Ray, Area Specialist	218-829-5965 x117	tyler.ray@usda.gov

Neighboring Jurisdiction Contacts

Name of Jurisdiction	Name & Title	Phone	Email
Carlton County	Marlyn Halverson, EMD	218-910-0546	marlyn.halverson@co.carlton.mn.us
Kanabec County	Jeff Anderson, EMD	320-679-8421	jeffrey.anderson@co.kanabec.mn.us
Mille Lacs County	Julie Peterson, EMD	320-983-8475	Julie.peterson@millelacs.mn.gov
Crow Wing County	John Bowen, EMD	218-825-3445	john.bowen@crowwing.us
Cass County	Chad Emery, EMD	218-547-7437	chad.emery@co.cass.mn.us
Itasca County	John Linder, Interim EMD	218-244-6952	john.linder@co.itasca.mn.us
St. Louis County	Dewey Johnson, EMC	218-726-2936	johnsond@stlouiscountymn.gov
Mille Lacs Band of Ojibwe	Monte Fronk, EMD	320-362-0435	Monte.Fronk@millelacsband.com

Aitkin County MHMP Planning Team Meeting #1 October 21, 2020 - Meeting Summary & Documentation

Summary: On Wednesday, October 21, 2020, Aitkin County Emergency Management convened key county, city, and township representatives, as well as neighboring jurisdictions and other stakeholders to participate in the 1st Planning Team Meeting for the update of the Aitkin County Multi-Hazard Mitigation Plan (MHMP). The purpose of the meeting was to formally present information about the Aitkin County MHMP update and to discuss key items that would inform plan development. The meeting was held via Zoom webinar video conference and was facilitated by Stacey Stark and Bonnie Hundrieser of the U-Spatial@UMD project team.

Stakeholder Invitations: Aitkin County Emergency Management invited all stakeholders included on the county's MHMP Update Jurisdictional Contact List (JCL), which includes the key County Contacts, City Contacts, Township Contacts, Other Stakeholder Contacts, and Neighboring Jurisdiction Contacts identified to be invited to participate in the plan update process. Contacts were encouraged to engage additional staff or to send someone in their stead if they could not attend. A copy of the county's Jurisdictional Contact List is provided in *Appendix F Steering Committee Meetings*.

Meeting Participants: A total of 33 people attended the meeting. Representation included elected officials and departmental staff from Aitkin County and the cities of Aitkin, Hill City, McGregor, Palisade, and Tamarack. The City of McGrath was not in attendance. Other stakeholders, including neighboring jurisdictions, participated in the meeting. A participant list is included with this meeting summary.

Presentation Overview: The Power Point presentation covered the following items. A PDF of the presentation slides is included with this meeting summary.

- Overview of Hazard Mitigation & the MHMP Update
- ➤ Who the Plan Covers & Role of the Planning Team
- Review of Hazards + Overview of Risk Assessment and Vulnerability Analysis
- Update of Risk Priorities
- Review of Mitigation Strategies & Example Actions
- Overview of FEMA HMA grant program
- Discussion of local mitigation ideas
- Discussion of next steps & answer your questions.

Participant Poll: At the start of the meeting participants were presented with an interactive poll asking 2 questions. Following are the questions and poll results.

Question 1: Have you participated in Hazard Mitigation previously?

- Yes, I have previously participated in in a hazard mitigation planning process. (10) 42%
- No, but I am familiar with hazard mitigation planning. (4) 17%
- No, and this is all new to me. (10) 42%

Question 2: What natural hazards you are most concerned about in your community? (please note, this is not comprehensive)

- Winter Storms (6) 25%
- Tornado (6) 25%
- Wildfire (5) 21%
- Flood (4) 17%
- Windstorms (3) 13%
- Drought (0) 0%
- Extreme Heat (0) 0%
- Extreme Cold (0) 0%
- Hail (0) 0%
- Landslides (0) 0%

Prioritization of Natural Hazards: The planning team was presented with an overview of each of the natural hazards that were covered in the county's last plan and the risk prioritization at that time. Considerations for the current risk prioritization since the last plan was presented for each hazard, such as events recorded since the last plan, NCEI Storm Data, or known existing local vulnerabilities (i.e., number of mobile home parks). It was noted to participants that:

- Hazards deemed to be of high or moderate risk must result in mitigation actions to address them for the jurisdictions that are affected.
- Hazard prioritization may vary for jurisdictions or may not differ countywide.
- Hazards deemed to be low risk and without significant mitigation actions may be dropped from the plan. This excludes the hazard of Dam/Levee failure, which must be addressed per new FEMA guidelines, even if risk is deemed low.

Following is a chart reflecting the 2015 risk priorities for Aitkin County and any changes to the current risk prioritization for the plan update. This discussion served as an introduction to updating the risk prioritization and will be followed up with further information gathered from the county and local jurisdictions during the planning process. Any changes to the risk prioritizations will be noted under "2020 Current Priority".

Natural Hazards Addressed in the Last Plan	2015 Priority	2020 Current Priority
Tornadoes	High	High
Winter Storms	High	High
Flooding	Moderate	High
Windstorms	High	High
Wildfire	Moderate	Moderate
Hail	Low	Low
Lightning	Low	Low
Drought	Moderate	Low
Extreme Cold	Low	Low
Extreme Heat	Low	Low
Landslides	Low	Low

Comments, Questions or Mitigation Ideas – Following are the questions, comments or mitigation ideas that were shared by participants and how they will be addressed for the plan update.

Meeting Participant	Comment, Question or Mitigation Idea Submitted	Facilitator Feedback / How to be Addressed in Plan Update
Maureen Mischler, City Clerk- Treasurer, City of Palisade	Will an electronic copy of this presentation be available following the meeting? Thanks for your reply.	Good Morning, yes, we will send out a PDF of the presentation following the meeting, as well as a full meeting summary.
Bill Pratt, Aitkin County Commissioner	When considering mobile homes, are areas where there are a concentration of mobile homes not in a mobile home park considered?	Yes, any community that has that sort of situation we can address them if we have data to include.
John Welle, Aitkin County Highway Engineer	On discussion of the prioritization of flooding: I don't remember how flooding was ranked in 2015, but to say that flooding is on the same level as drought seems not right. I think that flooding risks are right up there with flooding risks and tornadoes and should be prioritized as high.	Flooding was agreed to be noted as a high priority natural hazard for the plan update.
Steve Hughes, Aikin SWCD Manager	I agree with John on the flooding risks. Landslides are also a concern (roads washed out, lakeshore slopes sliding towards the water body and associated water quality).	We definitely want to include the issues of roads washing out and lakeshore erosion in the flood section of the plan. Also, yes, water quality concerns follow flooding, so we will say that. Landslides would be slope failure, that is not necessarily connected to flood events.
Maureen Mischler, City Clerk- Treasurer, City of Palisade	What about non-natural hazards such as pipeline incidents or ecoterrorism (i.e., setting wildfires) being addressed by the plan?	The plan does not address technological/human-caused incidents such as these, as they are not the federal requirement and are addressed by other county or agency planning efforts. This is not to minimize or dismiss them, but we do not conduct a risk assessment on these hazards and develop mitigation actions for them.
Dake Olson, Mayor, City of McGregor	McGregor has got a lot of comments about a storm shelter for our mobile home park.	Noted for follow up with the City of McGregor.
Stacey Durgin Smith, Aitkin County Health & Human Services, PHEP Coordinator	Is there any way to mitigate the flooding in the City of Aitkin around the greenhouse, Hardware Hank, etc.?	Noted for follow up with the City of Aitkin. / Aitkin County EM response: Brian Pisarek is the City of Aitkin EM and I believe they have had discussions in the past about this. Terry Bentley has been involved as well, but no easy fix.
Stacey Durgin Smith, Aitkin County Health & Human Services, PHEP Coordinator	The City of Tamarack has been concerned about where residents can go in case of emergency.	Noted for follow up with the City of Tamarack. Aitkin County EM response: The snow flyers building

Apparently there are no open safe	has been identified as the best	
buildings and a lack of basements in	d a lack of basements in building to gather in the city limits. We could get together to discuss	
that area.		
	other options as well.	

Following the discussion, participants were encouraged to fill out and return the "Mitigation Ideas" worksheet that they were provided with to Aitkin County Emergency Management to submit any specific local concerns and related mitigation ideas. The meeting concluded with an overview of next steps and estimated timeline for completion.

Exit Survey: Following the Zoom meeting, participants were provided with a short survey they were invited to fill out before upon their departure in order to gather some final feedback.

1. Did you learn what you expected/needed about hazard mitigation in today's webinar?

- (13) Yes
- (1) Unsure

2. Please provide comments about any of the lower risk hazards if you think they should be addressed in the plan (lightning, hail, extreme cold, extreme heat, landslide)

- I would also put flooding at a higher risk level. I will also follow up with you on shelters in remote townships and emergency communications.
- Thought straight-line winds and tornado could be combined, as by definition straight-line winds are a tornado that has no lift to make a vertical vortex.
- Extreme heat and cold seem to be put lower on the list because we are used to them in Minnesota. However, if they happen in combination with a power outage, they are very concerning. Also, as our population ages, there may be an increase in the number of people who cannot tolerate the extreme heat and lack the funding to provide air conditioning.
- Nothing in the lower risk, but am wondering if flooding should not be higher too, as it seems we are having more and more large rain events, which does major damage to gravel roads in particular, but certainly other roads too, which are critical infrastructure.
- Storm shelters for our public safety buildings and mobile home park, Fire mitigation around the city, and reduction of potential flooding in the city of McGregor would be a High on my list. Upgrading a City building as a winter storm relocation shelter would be a moderate priority.
- I'm interested in the development of a county-wide detailed drainage study, that would analyze drainage patterns while taking into consideration man made obstacles to drainage (i.e., road, rail beds, etc.) and consider the effectiveness of bridges, culverts and overall county drainage ditches. This would result in recommendations for improvements and providing tools to cities and township to conduct better planning and more effective use of their local funds in conjunction with the county efforts. Perhaps something similar already exist or is in development.

3. Any other comments (about natural hazards, mitigation actions, or how we might improve this webinar)?

- I thought the Webinar was very informative.
- Like your presentation and its format.
- Nice job, very well put together! Thanks!
- Our city park is well attended, but we have a relatively small bathhouse. After one of our last storms it was recognized that even though it is our designated storm shelter for

- the park, it would not accommodate all the campers if the park was full. Would expanding the bathhouse be considered a legitimate expense?
- I think the zoom platform was perfect and you did a great job presenting. Thank you very much.
- Excellent webinar. I think it would have been helpful for some discussion of how the County as a whole and neighboring counties/cities identify possible resources to assist one another during disasters/recovery. Perhaps that will come up during the mitigation planning process? Thanks so much for the information.

Attached are the following documentation items for the Aitkin County MHMP Meeting #1:

- 10-21-20 Mtg. #1 Email Invitation
- 10-21-20 Mtg. #1 List of Participants
- 10-21-20 Mtg. #1 Power Point Slides
- 10-21-20 Mtg. #1 Handouts

Meeting Summary Prepared By: Bonnie Hundrieser, U-Spatial@UMD Project Team

 From:
 Bonnie K Hundriese

 To:
 Bonnie K Hundriese

Subject: Aitkin County Multi-Hazard Mitigation Plan Team Meeting #1 Invitation

Date: Thursday, September 3, 2020 4:58:46 PM

From: Patrice Erickson <patrice.erickson@co.aitkin.mn.us>

Sent: Thursday, September 3, 2020 2:18 PM

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Subject: Aitkin County Multi-Hazard Mitigation Plan Team Meeting #1 Invitation

AITKIN COUNTY

MULTI-HAZARD MITIGATION PLAN UPDATE - MEETING INVITATION

Greetings,

Your presence is requested at a Planning Team Meeting for the update of the **Aitkin County Multi-Hazard Mitigation Plan**. You are requested to participate in this vital meeting because you have a position of administrative or departmental responsibility within either the County, a municipal government, or are a key stakeholder related to the planning process. Emergency Managers from neighboring jurisdictions are also encouraged to attend so that we may strengthen our shared mitigation efforts.

We will be holding the meeting using Zoom webinar:

Date: Wednesday, October 21, 2020

Time: 9:00 a.m. – 11:00 a.m.

Registration: https://umn-private.zoom.us/webinar/register/WN_Cej8V1WTSZuqZdXjpIElgw

Please note that you must register in advance for this webinar. After registering, you will receive a confirmation email containing information about joining the webinar.

RSVP: Please email me to RSVP for all persons planning to attend this meeting so I may keep track. (This is separate from the Zoom registration link).

About the Plan

The update of the Aitkin County Multi-Hazard Mitigation Plan (MHMP) is a requirement by the State of Minnesota Department of Homeland Security & Emergency Management (HSEM) as well as the Federal Emergency Management Agency (FEMA) every 5 years. Our last plan is due for an update and our planning is currently underway. The plan addresses the natural hazards that face Aitkin County and will result in the identification of mitigation actions that will help to reduce or eliminate the impact of future hazard events, such as flooding and severe winter or summer storms.

Your participation in this plan update is important for several reasons:

- 1. You will help to identify critical mitigation projects to implement at the county / municipal level, and how they can be integrated with existing plans, policies, or project efforts.
- 2. Participating jurisdictions will be eligible to apply for FEMA hazard mitigation grant funding.
- 3. Mitigation planning is necessary to keep our communities resilient against future disasters and reduce the costs of recovery.
- 4. FEMA requires documentation of how local government and key stakeholders participated in the planning process.

During this meeting we will review and prioritize the natural hazards that pose risk Aitkin County and individual communities and discuss a range of mitigation measures for local implementation. The meeting will be facilitated by personnel from U-Spatial at the University of MN Duluth who are working closely with us on this project.

We look forward to you joining us for this important meeting.

Thank you,

Patrice Erickson Aitkin County Sheriffs Office Dispatch Supervisor/Deputy Emergency Mng. 218 1st St.NW Aitkin, MN 56431 218-927-7437 patrice.erickson@co.aitkin.mn.us

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Greetings

We look forward to you joining us for the Aitkin County Multi-Hazard Mitigation Plan meeting tomorrow, Wednesday, October 21st from 9am – 11am.

Attached please find 3 handouts we will be referencing during the meeting.

If you have not registered yet, please do so by clicking on the following link: https://umn-private.zoom.us/webinar/register/WN_Cej8V1WTSZuqZdXjpIElgw

Patrice Erickson Aitkin County Sheriffs Office Dispatch Supervisor/Deputy Emergency Mng. 218 1st St.NW Aitkin, MN 56431 218-927-7437 patrice.erickson@co.aitkin.mn.us

From: Patrice Frickson

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Subject: Aitkin County Multi-Hazard Mitigation Plan Team Meeting #1 Invitation

AITKIN COUNTY

MULTI-HAZARD MITIGATION PLAN UPDATE - MEETING INVITATION

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Registration: https://umn-private.zoom.us/webinar/register/WN_Cej8V1WTSZuqZdXjpIElgw

Please note that you must register in advance for this webinar. After registering, you will receive a confirmation email containing information about joining the webinar.

RSVP: Please email me to RSVP for all persons planning to attend this meeting so I may keep track. (This is separate from the Zoom registration link).

About the Plan

The update of the Aitkin County Multi-Hazard Mitigation Plan (MHMP) is a requirement by the State of Minnesota Department of Homeland Security & Emergency Management (HSEM) as well as the Federal Emergency Management Agency (FEMA) every 5 years. Our last plan is due for an update and our planning is currently underway. The plan addresses the natural hazards that face Aitkin County and will result in the identification of mitigation actions that will help to reduce or eliminate the impact of future hazard events, such as flooding and severe winter or summer storms.

Your participation in this plan update is important for several reasons:

- 1. You will help to identify critical mitigation projects to implement at the county / municipal level, and how they can be integrated with existing plans, policies, or project efforts.
- 2. Participating jurisdictions will be eligible to apply for FEMA hazard mitigation grant funding.
- 3. Mitigation planning is necessary to keep our communities resilient against future disasters and reduce the costs of recovery.
- 4. FEMA requires documentation of how local government and key stakeholders participated in the planning process.

During this meeting we will review and prioritize the natural hazards that pose risk Aitkin County and individual communities and discuss a range of mitigation measures for local implementation. The meeting will be facilitated by personnel from U-Spatial at the University of MN Duluth who are working closely with us on this project.

We look forward to you joining us for this important meeting.

Thank you,

Patrice Erickson Aitkin County Sheriffs Office Dispatch Supervisor/Deputy Emergency Mng. 218 1st St.NW Aitkin, MN 56431 218-927-7437 patrice.erickson@co.aitkin.mn.us

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AITKIN COUNTY

Multi-Hazard Mitigation Plan Update 2020 Planning Team Meeting #1

October 21, 2020





Welcome & Introductions

U-Spatial@UMD Project Leads



Stacey Stark Project Manager U-Spatial@UMD



Bonnie Hundriesei HM Planning Specialist Hundrieser Consulting LLC

Aitkin County Project Lead

■ Dan Guida, Aitkin County Sheriff / **Emergency Management Director**



Webinar Logistics

YOU ARE UNABLE TO UNMUTE YOURSELF OR TURN YOUR VIDEO ON

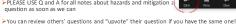
USE CHAT:

>Send a message to everyone or individuals



USE Q&A (all participants can see these)

PLEASE USE Q and A for all notes about hazards and mitigation a



>You can comment on others' questions

RAISE YOUR HAND

If you want to speak



USE LIVE TRANSCRIPT

To view live subtitles or a full transcript



Meeting Purpose & Agenda

The purpose of this meeting is to formally convene the Aitkin County MHMP Planning Team for a presentation of the plan update and discussion of key items.



July, 2016 CR4 flood damage

Overview of Hazard Mitigation & the MHMP Update Who the Plan Covers & Role of the Planning Team

Review of Hazards + Overview of Risk Assessment and Vulnerability Analysis

Update of Risk Priorities

Review of Mitigation Strategies & Example Actions

Overview of FEMA HMA grant program

Discuss local mitigation ideas & public engagement.

Discuss next steps & answer your questions.

Why **U-Spatial?**

U-SPATIAL

UNIVERSITY OF MINNESOTA DULUTH **Driven to Discover**

Our updates of 30+ MHMPs, as well as the State MHMP, have been quickly approved by FEMA and adopted by counties.

Advanced Capabilities

Expertise in the application of GIS, HAZUS, and research supports plan development and meeting all FEMA requirements.

A consistent and proven approach for multiple counties supports State & FEMA review of draft plans.

Planning Team

Our project team includes advanced GIS students and Hundrieser Consulting.

PRESENTER: STACEY STARK

What is Hazard Mitigation?

Hazard Mitigation is any action taken to reduce or eliminate long term risk to people and property from natural disasters.



- HM planning identifies risks and vulnerabilities, develops a plan of action, and builds partnerships to implement efforts.
- HM breaks the cycle of disaster and reconstruction.
- HM builds stronger & more resilient communities.

PRESENTER : BONNIEHUNDRI

MHMP Overview & Timeline

The Multi-Hazard Mitigation Plan (MHMP) is a requirement of the Federal Disaster Mitigation Act of 2000 (DMA 2000).

- ✓ The development of a local government plan is required in order to maintain eligibility for FEMA hazard mitigation grant programs.
- ✓ Plans must be updated every 5 years.
- ✓ Must address all jurisdictions and engage key stakeholders.
- ✓ Planning process must give an opportunity to the public to provide feedback.



2016 Hill City straight line wind damage

Aitkin County MHMP Update 2020

- Last plan adopted in 2015.
- The updated plan will cover a 5-year window (2021-2026).
- County and local-level government participation is required.

PRESENTER : RONNIEHUNDRIESER

Who the Plan Covers

The Aitkin County MHMP is a multijurisdictional plan that covers the county as well as all city & townships within the county.

- ✓ County and city governments are required to adopt the plan.
- √ Townships are covered under the umbrella of the county, but may elect to adopt.
- ✓ City-level participation in the plan update must be documented for local adoptions to be approved.



PRESENTER: BONNIEHUNDRIES

MHMP Planning Team

Aitkin County Planning Team

- Aitkin County Emergency
- Key County Officials & Staff
- City and Township Officials & Staff
- Neighboring Jurisdictions
- Other Related Agency or Organizational Stakeholders



- Assist with public outreach & documentation for news releases (use of websites, social media & community bulletin boards).
- Participate in 2 planning team meetings.
- Assist with provision of county/local information
- Help develop & review local mitigation action charts.
- Review of the draft plan.
- Facilitate local-level adoptions.

What Hazards are Addressed in the Plan?



- Natural hazards that pose risk to the county and its jurisdictions.
- ➤ Manmade hazards are not required to be addressed (per the DMA 2000).
- ➤ Hazards may be omitted from the plan if **low risk** is demonstrated.
- ➤ Hazard Risk may differ in cities and the county overall.
- Flooding Drought Dam/Levee Extreme Lightning Failure Heat Extreme Wildfire Winter Storms Cold Landslides Coastal Tornadoes Karst Erosion

Natural hazard categories for Minnesota MHMPs.

PRESENTER: STACEY STAR

Hazard Risk Assessment and Vulnerability Analysis

The U-Spatial@UMD Team will work closely with the county and each city to provide information as needed.

- ➤Inventory of critical infrastructure.
- Identify specific, local-level impacts and vulnerabilities.
- Identify any factors (i.e., new development) that may increase the community's vulnerability.
- ➤ Review social vulnerability factors.
- Identify if and how risk priorities have changed since the last plan. (Increased / Decreased)





July, 2012 McGregor flood damage

PRESENTER: STACEY STAR

Hazard Prioritization

Hazards Addressed in 2015 HMP	2015 priority	Comments
Ice Storm	High	With winter storms in 2020
Tornado	High	
Wildfire	Moderate	
Winter Storm	Moderate	
Drought	Moderate	
Straight-line Wind	Moderate	"Windstorms" in 2020
Flood	Moderate	
Extreme Heat	Low	
Extreme Cold	Low	
Hail		Discussed in Summer Storms in 2015
Lightning		Discussed in Summer Storms in 2015
Landslide		Not Addressed
Dam Failure	Low	Required by HSEM

Tornadoes (high)

- Based NCEI Storm Events Database through February 2020, the relative frequency of tornados is .26 per year (18 total)
- > Tornadoes occurred in 2019 (EF0) and 2016 (EF1)
- > Identify mobile home locations



ugust 29, 2013 Hill City-Remer



Winter Storms (high)

- 22 winter weather related events (blizzards, heavy snows, ice storms, winter storms, and winter weather) have occurred since January 2014 (3.1 year)
- Based on all records in the NCEI Storm Events Database, the relative frequency of winter-related storm events is 3.4 per



Winter 2019 heavy, wet snowstorm

Flooding (moderate)



- Use of FEMA Flood Insurance Rate Map (FIRM)
- Use of property values from county assessor
- Critical Infrastructure locations from GIS and EM input



Windstorms (high), Lightning, Hail (low)

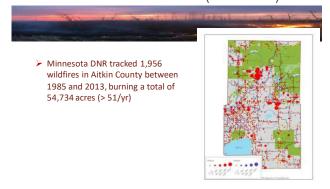
Each addressed individually

- > The relative frequency of all wind-related events since January of 1996 is 4.2 per
- > There were ten hailstorms with hail greater or equal to 1-inch since 2014. The relative frequency of all hail events is 1.5 per year.
- Hazards deemed low risk and without significant mitigation actions, can be dropped from the plan.

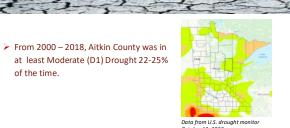


Labor Day, 2018 hail & wind storm damage to power poles and mobile home

Wildfire - Wildland Fire (moderate)



Drought (moderate)



Extreme Cold (low)



- From 2014 2020, daily low temperatures ≤ -18 °F were recorded 84 times at Sandy Lake Dam Libby station. Le Sueur County experiences an average of 11-14 extreme cold days each year.
- -41°F recorded by the Sandy Lake Dam Libby station on January 31, 2019
- The relative frequency of cold-related events (NWS Warning issued due to wind chill of -35 °F or colder) in Aitkin County is .9 per year

Landslides (low)



Hazards deemed low risk and without significant mitigation actions, can be dropped from the plan.

PRESENTER: STACEY STA

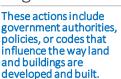
Review of Mitigation Strategies & Example Actions



See Handout: Mitigation Strategies &

PRESENTER: BONNIEHUNDRIESER

#1 - Local Planning & Regulations







EXAMPLES

- Establishing & enforcing floodplain & shoreland ordinances
- Participating in the NFIP
- Developing stormwater management plans
- Long-term planning for infrastructure improvements
- Working with MHP operators to be in compliance with State statutes for storm shelters & evacuation plans.

PRESENTER : BONNIE HUNDRIESER

#2 – Structure and Infrastructure Projects



These actions involve modifying existing structures to protect them from a hazard or remove them from a hazard area. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.

EXAMPLES:

- Property acquisitions (repetitive flooding/erosion risk)
- Structural elevations (flooding)
- Utility undergrounding
- Constructing floodwalls & retaining walls
- Improving culverts, roads & bridges
- Green infrastructure projects
- Safe room construction or retrofit

PRESENTER: BONNIEHUNDRIESE

Community Safe Rooms Wadena-Deer Creek School, June 17 2010



PRESENTER : BONNIEHUNDRIESER

August, 2012 – 1st school based tornado safe room (Wadena)

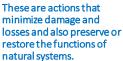


Power Line retrofit/burial





#3 - Natural Systems Protection





EXAMPLES:

- Slope management for soil stabilization
- Shoreland restoration
- "Living Fences" for wind/erosion reduction or snow buffer
- Forest management for wildfire mitigation (fuels reduction)
- Flood diversion and storage

#4 - Education & Awareness **Programs**

These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them.







- Promoting sign-up for emergency notifications
- Educate on use of outdoor warning sirens and response
- Participation in the NWS Severe Weather Awareness Weeks
- SKYWARN Storm Spotter Training
- Turn Around Don't Drown
- Promoting personal & family emergency preparedness (i.e. Ready.gov)

#5 – Mitigation Preparedness & Response Support

These are actions that help to protect life and property prior to, during, and immediately after a disaster or hazard event.

These activities are typically not considered mitigation, but support reduction of the effects of damaging events.





EXAMPLES:

- Emergency Notification Systems
- Emergency Operations Plans
- Outdoor warning sirens
- Shelter Planning
- Flood fight plans & equipment
- Training local elected officials in EM responsibilities
- Emergency backup generators for critical facilities

FFMA HMA **Grant Program**

- ✓ All applicants must have or be covered under an approved MHMP.
- ✓ Eligible applicants: State & local governments, Tribal Communities, and certain private non-profit organizations or institutions.
- ✓ Cost Share: Federal 75%/ Applicant 25%

HSEM HMA Grants Program Overview

See Handout:

- ✓ Eligible projects must be identified in the local MHMP.

Examples of Eligible Activities

- Property Acquisition/Relocation
- Safe Room Construction
- Minor Localized Flood Risk Reduction
- Green Infrastructure
- Infrastructure Retrofits
- Soil Stabilization
- Wildfire Mitigation

■ 5% Initiative Projects

PRESENTER : BONNIE HUNDRIESEF

Historical Projects in Aitkin County Resulting from HMA Funding since 2010

DR / project #	subrecipient	project type	100% project cost	federal share (%75)	local match (%25)
1941.10.	Aitkin County	Plan	\$34,000.00	\$25,500.00	\$8,500.00

Mitigation Ideas

Do you have questions or ideas to share about local hazards & vulnerabilities and proposed mitigation actions?

See Handout: Mitigation Ideas Worksheet

PRESENTER : BONNIEHUNDRIESE

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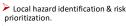


Completion of Local

Mitigation Survey

(LMS) Forms

Fall 2020



- Local vulnerabilities (critical infrastructure, populations or assets)
- Local capabilities (programs, polices, staff, funding)
- Local mitigation projects.



Action Charts

Development of Local Mitigation

Winter 2020

- County and City-Specific MACs
- > 5-year window (2021-2026)
- Mitigation actions must address high and moderate risk hazards.
- Seek to include actions eligible for FEMA HMA grant funding.
- Mitigation actions must be informed by hazards of risk, as well as local capabilities & existing planning mechanisms.

PRESENTER : BONNIE HUNDRIES





Draft Plan Development & Initial Review

Winter 2020-Spring 2021

- ➤ Updated risk assessment & vulnerability analysis
- Development of hazard profiles (history, probability, impacts of climate change)
- GIS mapping
- > HAZUS analysis
- > EM initial review of draft plan



Planning Team Meeting #2 and Public Review & Comment Period

Spring-Summer 2021

- ➤ Hold Planning Team Mtg. #2 presentation of draft plan and final review of Mitigation Action Charts.
- Disseminate & document news release by county and jurisdictions.
- Conduct draft plan review.
- Document local outreach and feedback.

PRESENTER: BONNIEHUNDRIESE

PRESENTER: BONNIEHUNDRIESER



Approval

Draft Plan Submission

to HSEM & FEMA for

Fall-Winter 2021

➤ Draft plan will be submitted first to HSEM and then to FEMA for approval for meeting all Federal requirements.

- > Typically requires 1-2 months.
- > APA letter
- ➤ EM coordination of adopting resolutions

Questions?

What questions do you have for U-Spatial@UMD about the MHMP update process?

PRESENTER: BONNIEHUNDRIESE

PRESENTER: STACEY STARK

Contact Information

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U-SPATIAL
UNIVERSITY OF MINNESOTA DULUTH
Driven to Discover

Bonnie Hundrieser, Consultant

Hundrieser Consulting LLC

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PRESENTER: STACEY STAR

<u>Mitigation Strategies & Action Types</u>

Following are the five types of mitigation strategies that will be used in the update of the Multi-Hazard Mitigation Plan with examples of related mitigation actions. Minnesota HSEM recommends the use of these mitigation strategies to be in alignment with the State plan and those recommended by FEMA. The first four strategies listed are taken from the FEMA publications *Local Mitigation Planning Handbook* (2013) and *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards* (2013). The fifth strategy type was determined by Minnesota HSEM for use within the state.

These strategies will provide the framework for identification of new jurisdictional-level mitigation actions for implementation over the next 5-year planning cycle.

Mitigation Strategy	Description	Example Mitigation Actions
Local Planning and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	 Comprehensive plans Land use ordinances Planning and zoning Building codes and enforcement Floodplain ordinances NFIP Community Rating System Capital improvement programs Open space preservation Shoreline codes Stormwater management regulations and master plans Mobile home park compliance for storm shelters
Structure and Infrastructure Projects	These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.	 Property Acquisitions and elevations of structures in flood prone areas Utility undergrounding Structural retrofits (i.e., metal roofs) Floodwalls and retaining walls Detention and retention structures Culvert Installation/Modification Roads & Bridge risk reduction Safe Room (New construction or facility retrofit) Green Infrastructure Methods Many of these types of actions are projects eligible for funding through FEMA HMA grant programs.

Mitigation Strategy	Description	Example Mitigation Actions
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	 Soil stabilization for sediment and erosion control Floodplain and Stream corridor restoration Slope management Forest management (defensible space, fuels reduction, sprinkler systems) Conservation easements Wetland restoration and preservation Aquifer Storage & Recovery Flood Diversion and Storage Many of these types of actions are projects eligible for funding through FEMA HMA grant programs.
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions that support life safety and lessen property damage.	 Radio or television spots Websites with maps and information Social media outreach Promotion of sign-up for emergency warnings Real estate disclosure Promotion of NFIP insurance to property owners Presentations to school groups or neighborhood organizations Mailings to residents in hazard-prone areas. NWS StormReady Program Firewise Communities Some of these types of actions may be projects eligible for funding through the FEMA HMA "5 Percent Initiative Program".
Mitigation Preparedness and Response Support	This is a State of Minnesota mitigation strategy with the intent of covering emergency preparedness actions that protect life and property prior to, during, and immediately after a disaster or hazard event. These activities are typically not considered mitigation, but support reduction of the effects of damaging events.	 Emergency Operations Plan Flood fight plans and preparedness measures Dam emergency action plans Emergency Warning Systems (i.e., CodeRed, warning sirens) Generator backup power NWS Storm Spotter Training Training and education for local elected officials and key partners.



State of Minnesota Department of Public Safety Division of Homeland Security and Emergency Management 445 Minnesota Street, Suite 223 St. Paul. MN 55101-6223

HAZARD MITIGATION ASSISTANCE

Hazard Mitigation Assistance (HMA) grant programs provide funding with the aim to reduce or eliminate risk to property and loss of life from future natural disasters. HMA programs are typically a 75%/25% cost share program. The federal share is 75% of total eligible project reimbursement costs. The local applicant is responsible for 25% of the project costs. The amount of HMGP funds availability is based on a percent of Public Assistance provided by Federal Emergency Management Agency (FEMA).

- <u>Hazard Mitigation Grant Program</u> (HMGP) funds assists in implementing long-term hazard mitigation measures following a Presidential major disaster declaration.
- <u>Pre-Disaster Mitigation</u> (PDM) provides funds for hazard mitigation planning and projects on an annual basis.
- Flood Mitigation Assistance (FMA) provides funds on an annual basis to reduce or eliminate risk of flood damage to buildings that are insured under the National Flood Insurance Program (NFIP).

Who is eligible for grant funding?

All applicants must have or be covered under an approved Hazard Mitigation Plan. Eligible applicants include: State and local governments; certain private non-profit organizations or institutions; and Tribal Communities

What types of projects can be funded?

All projects must be eligible, technically feasible, and cost-effective. All projects are subject to environmental and cultural resource review. Examples of projects include:

- **Advance Assistance** may be used to develop mitigation strategies and obtain data, including for environmental and historic preservation compliance considerations, and develop complete project applications in a timely manner.
- Aquifer Storage and Recovery (ASR) projects serve primarily as a drought management tool, but
 can also be used to reduce flood risk and restore aquifers that have been subject to overdraft. The
 concept is to capture water when there is an abundant supply, store the water in subsurface aquifers,
 and recover water from the storage aquifer when needed. Storing water underground can help
 protect it from pollutants, evaporation, and weather events.
- **Floodplain and stream restoration** (FSR) projects are used primarily to reduce flood risk and erosion by providing stable reaches, and may also mitigate drought impacts. FSR projects restore and enhance the floodplain, stream channel and riparian ecosystem's natural function. They provide base flow recharge, water supply augmentation, floodwater storage, terrestrial and aquatic wildlife habitat, and recreation opportunities by restoring the site's soil, hydrology and vegetation conditions that mimic pre-development channel flow and floodplain connectivity.
- **Flood Diversion and Storage** (FDS) projects often are used to reduce flood risk, but also can be used to mitigate drought and improve ecosystem services. These projects involve diverting floodwaters from a stream, river, or other body of water into a conduit such as a canal, pipe, or wetland and storing them in an above-ground storage facility. Water is then slowly released, reducing flood risk.

- **Green Infrastructure Methods** are a sustainable approach to natural landscape preservation and storm water management. Include in *eligible hazard mitigation activities* as well as provide additional ecosystem benefits. Ecosystem-based approach to replicate a site's pre-development, natural hydrologic function. Benefits include: Increase water supply, improved water quality, can be scaled to size and designed to fit site conditions.
- **Property Acquisition and Structure Demolition or Relocation** The voluntary acquisition of an existing at-risk structure and the underlying land, and conversion of the land to open space through the demolition or relocation of the structure. The property must be deed-restricted in perpetuity to open space uses to restore and/or conserve the natural floodplain functions.
- **Retrofit Flood-Prone Residential Structures** are changes made to an existing structure to reduce or eliminate the possibility of damage to that structure from flooding, erosion, or other hazards. Examples of this mitigation are primarily elevation of structures above flood levels and floodwalls.
- Safe Room Construction Safe room construction projects are designed to provide immediate lifesafety protection for people in public and private structures from tornado and severe wind events.
 Includes retrofits of existing facilities or new safe room construction projects, and applies to both single and dual-use facilities
- Minor Localized Flood Reduction Projects Projects to lessen the frequency or severity of flooding
 and decrease predicted flood damages, such as the installation or up-sizing of culverts, and
 stormwater management activities, such as creating retention and detention basins. These projects
 must not duplicate the flood prevention activities of other Federal agencies and may not constitute a
 section of a larger flood control system.
- Infrastructure Retrofit Measures to reduce risk to existing utility systems, roads, and bridges.
- **Soil Stabilization** Projects to reduce risk to structures or infrastructure from erosion and landslides, including installing geotextiles, stabilizing sod, installing vegetative buffer strips, preserving mature vegetation, decreasing slope angles, and stabilizing with rip rap and other means of slope anchoring. These projects must not duplicate the activities of other Federal agencies. *New tools for Bioengineered Shoreline Stabilization, Bioengineered Streambank Stabilization.*
- **Wildfire Mitigation** Projects to mitigate at-risk structures and associated loss of life from the threat of future wildfire through: Defensible Space for Wildfire, Application of Ignition-resistant Construction and Hazardous Fuels Reduction. *New tool for Bioengineered Wildfire Mitigation*.
- **HMGP only 5 Percent Initiative Projects** These projects, which are only available pursuant to an HMGP disaster, provide an opportunity to fund mitigation actions that are consistent with the goals and objectives of approved mitigation plans and meet all HMGP program requirements, but for which it may be difficult to conduct a standard Benefit-Cost Analysis (BCA) to prove cost-effectiveness.

How do I apply?

Start by submitting a Notice of Interest, available on HSEMs website at: https://dps.mn.gov/divisions/hsem

Where can I obtain further information?

For additional information about the HMA grant program, you can refer to the FEMA website: http://www.fema.gov/hazard-mitigation-assistance

MITIGATION IDEAS WORKSHEET

Please use the following worksheet to list your ideas for mitigation actions that you feel will help reduce the impact of future natural hazard events to the county or to your jurisdiction. Following the MHMP planning team meeting, please return this form via email to your county Emergency Manager to submit your feedback.

NAME OF JURISDICTION:

CONTACT INFORMATION Name: Phone: Email: Hazard **Description of Concern or Proposed Mitigation Action**

Aitkin County MHMP Planning Team Meeting #2 September 23, 2021 - Meeting Summary & Documentation

Summary: On Thursday, September 23, 2021, Aitkin County Emergency Management convened county, city, and township representatives, as well as neighboring jurisdictions and other stakeholders to participate in the 2nd and final Planning Team Meeting for the update of the Aitkin County Multi-Hazard Mitigation Plan (MHMP). The purpose of the meeting was to formally convene the Aitkin County MHMP Planning Team for a presentation on the draft plan and discussion of key items prior to public review and submission of the plan to HSEM and FEMA. The meeting was held via Zoom webinar video conference and was facilitated by Stacey Stark and Bonnie Hundrieser of the U-Spatial@UMD project team.

Stakeholder Invitations: Aitkin County Emergency Management invited all stakeholders included on the county's MHMP Update Jurisdictional Contact List (JCL), which includes the key County Contacts, City Contacts, Township Contacts, Other Stakeholder Contacts, and Neighboring Jurisdiction Contacts identified to be invited to participate in the plan update process. Contacts were encouraged to engage additional staff or to send someone in their stead if they could not attend. A copy of the county's Jurisdictional Contact List is provided in *Appendix F Steering Committee Meetings*.

Meeting Participants: A total of 23 people attended the meeting. Representation included elected officials and departmental staff from Aitkin County and the cities of Aitkin, Hill City, McGregor, Tamarack, and Palisade. The city of McGrath was not in attendance. Other stakeholders, including neighboring jurisdictions, participated in the meeting. A participant list is included with this meeting summary.

Presentation Overview: The PowerPoint presentation covered the following items about the process and content of the plan update. A PDF of the presentation slides is included with this meeting summary.

- Meeting Purpose and Agenda
- ➤ About the Project Team
- Overview of Plan Update
- Who the Plan Covers
- Who Needs to Participate
- Prioritization of Hazards
- Hazards Risk Assessment (Critical Infrastructure, Population Vulnerability Factors, and Review of High/Moderate Priority Natural Hazards)
- Development of Mitigation Actions
- > FEMA HMA Grant Funding
- Overview of Mitigation Action Charts and Discussion
- Discussion of Next Steps & answer your questions

The opening PowerPoint presentation covered a re-cap of key points about the plan update, a review of the Risk Assessment & Vulnerability Analysis, an overview of FEMA Hazard Mitigation Assistance (HMA) grant funding; an overview of how mitigation actions are developed and an overview of the jurisdictional Mitigation Action Charts (MACs). Following the presentation, participants were provided with an opportunity to review and discuss the county and local mitigation action charts. This discussion period offered a facilitated opportunity for participants to consider any changes or new additions to the MACs prior to completion of the draft plan for public review.

Discussion Notes: Following is an overview of key discussion points, questions, or mitigation ideas that were shared during the presentation and how they will be incorporated into the plan update.

Meeting Participant	Comment, Question or	Facilitator Feedback /
	Mitigation Ideas	Plan Incorporation
Steve Hughes, Aitkin County SWCD District Manager	In regards to the discussion on Wildfire: Aitkin SWCD and Carlton SWCD are creating a Firewise "before and after" video to show risk for a cabin or other structure. We could have a link to several websites when that is completedRemoving vegetation from directly around the structure reduces risk; we will show that with drone video.	This is excellent information that illustrates how the Aitkin SWCD can assist with public outreach & education for wildfire mitigation. We can include mention of this work in the Aitkin County mitigation action chart. We also encourage you to please review the wildfire section of the plan when we share the plan for public review.
Rhonda Vetter, Safety/Emergency Management Coordinator, Riverwood Healthcare Center	Post-Meeting Comment regarding Drought: In thinking about the 5-year mitigation plan, I feel that drought should be moved to a moderate hazard with current trending in climate change. Any long term drought scenario put the county at least at moderate possible high risk for wildfires and with the number of peat bogs in the county a concern for sustained response.	Follow up was conducted with Sheriff Guida on this matter. The drought was a very real issue in the summer of 2021, but there was also very little that we could do to reduce impacts. The fire hazard associated with a drought was discussed and the most likely hazard to mitigate. Drought will remain in the low priority category for the plan as mitigation activities are limited for drought and can more directly be addressed in the realm of wildfire mitigation.
Stacey Durgin-Smith, Aitkin County Public Health Emergency Preparedness Coordinator	Post-Meeting Comment regarding Drought: My only question after reading over the presentation slides was why drought was considered low when we are in a moderate drought and nearly half of the US is in a severe to exceptional drought and there are concerns about getting enough moisture to counteract drought for years to come. I am not sure how the ratings were performed. That result just seemed odd.	Same as above.

Meeting Conclusion: The meeting concluded with an overview and timeline of the upcoming next steps of posting the plan for public review and input and submitting the draft plan to HSEM and FEMA for final review and approval.

Exit Survey: Following the Zoom meeting, participants were provided with a short survey they were invited to fill out before upon their departure in order to gather some final feedback.

1. Thanks for attending today! Did this presentation meet your expectations? Yes (3)

2. Do you have any comments about hazards or mitigation actions? Do you have any questions for the consultants?

Could I get a copy of the presentation, so I can review with my hospital emergency management team for consideration in development of our hazard vulnerability assessment. (rvedder@rwhealth.org)

Attached are the following documentation items for the Aitkin County MHMP Meeting #2:

- 9-23-21 Mtg. #2 Email Invitation
- 9-23-21 Mtg. #2 List of Participants
- 9-23-21 Mtg. #2 Power Point Slides
- 9-23-21 Mtg. #2 Handouts

Meeting Summary Prepared By: Bonnie Hundrieser, U-Spatial@UMD Project Team

side det; Mike D. Dangers; Andrew Carlstrom; John Welle; Rich P. Courtemanche; Info@longlakecc.org; Cyrthia Bennett; Steve Hughes; Erin Mel; Sacey Durgin Smith; moorkmanfici altisin mus; chadmindici altisin mus; chadmindici altisin mus; chadmindici altisin mus; streetderartment@vahoo.com; dduff@altishuttilles com; kinoadan?/@amail.com; chrall@hillict vm.com; prane@altinolice.com; inelson@cl grant and analyze and analyze and analyze and analyze analyz

Bonnie K Hundrieser

Hazard Mitigation Planning

Cc: Subject: Date: Attachments: Wednesday, September 8, 2021 1:32:08 PM

<u>Aitkin County MHMP Mtg #2 Invitation 9-23-21 (003).docx</u>

Please see the attached invitation and I hope you all can make it and provide valuable input for this process!

V/R

Daniel Guida Aitkin County Sheriff W-218-927-7417 dan.guida@co.aitkin.mn.us

This transmission (the e-mail and all attachments) is confidential and intended solely for the use of the addressee(s). If you have received this transmission in error, please notify the sender by reply and delete this transmission immediately. Any unauthorized distribution, or copying of this transmission, or misuse or wrongful disclosure of information contained in it, is strictly prohibited. The information contained in this document is provided on an as-is basis and does not constitute a binding legal contract or receipt for services.

AITKIN COUNTY

MULTI-HAZARD MITIGATION PLAN UPDATE - MEETING INVITATION

Greetings,

Your presence is requested at the **2nd Planning Team Meeting** for the update of the **Aitkin County Multi-Hazard Mitigation Plan (MHMP).** This meeting will be the final planning meeting for the hazard mitigation planning process for the county, city jurisdictions, and other stakeholders.

You are requested to participate in this vital meeting because you have a position of administrative or departmental responsibility within either the county, a municipal government, or are a key stakeholder related to the planning process. Emergency Managers from neighboring jurisdictions are also encouraged to attend so we may strengthen our shared mitigation efforts.

We will be holding the meeting virtually using Zoom video/phone conferencing:

Date: Thursday, September 23, 2021

Time: 9:00 a.m. – 11:00 a.m.

Zoom Link: https://umn-private.zoom.us/webinar/register/WN_irZuGz_0TmiorbE8qxiZcg

You must click on the link above to register. (Ctrl + click to follow link)

The purpose of this meeting is to provide a final overview of the plan, including a review of the updated risk assessment for natural hazards that affect the county (history, local vulnerabilities, and future trends). We will also discuss the Mitigation Action Charts that have been developed for Aitkin County and each city, as well as funding opportunities for eligible projects under the FEMA Hazard Mitigation Assistance grant program. Your participation in this meeting and feedback on the draft plan is important to us. The draft Aitkin County MHMP is underway and will be ready for review by planning team members and the public following this meeting.

When you register, you will automatically be placed on an RSVP list. Please be sure to include the name, title and representation (jurisdiction/agency) for all persons planning to attend the meeting.

Thank you,

Dan Guida Aitkin County Sheriff

Aitkin County 9-23-21 MHMP Planning Team Meeting #2 List of Participants (23)

	First			
	Name	Last Name	Organization	Job Title
1	Dan	Guida	Aitkin County Sheriff's Office	Sheriff / EM Director
2	Jessica	Seibert	Aitkin County	Administrator
3	Patrice	Erickson	Aitkin County Sheriff's Office	Dispatch Sup/Deputy EM
4	Karla	White	Aitkin County Sheriff's Office	Jail Administrator/Deputy EM
5	Mike	Dangers	Aitkin County	County Assessor
6	Steve	Hughes	Aitkin County SWCD	District Manager
7	John	Welle	Aitkin County	County Engineer
8	Adam	Johnson	Hill City School District	Principal
9	Dan	Stifter	Aitkin Public Schools	Superintendent
10	Maureen	Mishler	City of Palisade	City Clerk-Treasurer
11	Jen	Thompson	City of Aitkin	City Clerk
12	David	Cluff	Aitkin Public Utilities	Manager
13	Kathy	Haugse	City of Tamarack	City Clerk/Treasurer
14	Tami	Meyer	City of Hill City	Clerk/Treasurer
15	Dake	Olson	City of McGregor	Mayor
16	Kevin	Stromberg	Spencer Township	Supervisor/Chairman
17	Rhonda	Vedder	Riverwood Healthcare Center	Safety/EM Coordinator
18	Cory	Brix	Mille Lacs Energy	Line Superintendent
19	Brad	Johnson	McGregor Schools	Superintendent/Principal
20	Julie	Peterson	Mille Lacs County	Emergency Management Director
21	John	Linder	Itasca County Sheriff's Office	Emergency Manager Coordinator
22	Chad	Emery	Cass County Sheriff's Office	Deputy Sheriff / EM Coordinator
23	Monte	Fronk	Mille Lacs Band of Ojibwe	Tribal EM

AITKIN COUNTY

Multi-Hazard Mitigation Plan Update 2021 Planning Team Meeting #2

SEPTEMBER 23, 2021





Welcome & Introductions

U-Spatial@UMD Project Leads



Stacey Stark Project Manager U-Spatial@UMD



Bonnie Hundrieser HM Planning Specialist Hundrieser Consulting LLC

Aitkin County Project Lead

Dan Guida, Aitkin County Sheriff / Emergency Management Director



Please type your name and jurisdiction in the CHAT - so others know who is here

DRESENTER: STACEVSTARK

Zoom Logistics

If you haven't yet, please type your name and jurisdiction or department in the Chat window

PLEASE REMAIN MUTED AND VIDEO OFF SO EVERYONE CAN HAVE THE BEST EXPERIENCE.

USE CHAT:



- >Send a message to everyone
- >Send a message to individuals or the presenters
- > Send a message to host to ask for help or ask a question that isn't for the whole group. The host is Stacey Stark

ASK TO SPEAK:



PRESENTER: STACEY STARK

Meeting Purpose & Agenda





July, 2016 CR4 flood damage

Hazard Mitigation Planning Meeting #2 Agenda

- > Welcome & Introductions
- ➤ Recap of Key MHMP Points
- Review of Risk Assessment & Vulnerability Analysis
- Overview of FEMA HMA Funding and Mitigation Action Charts (MAC)
- MAC Review & Feedback
- Next Steps

PRESENTER: STACEY STA

About your Project Team

U-SPATIAL
UNIVERSITY OF MINNESOTA DULUTH
Driven to Discover

U-Spatial at the University of Minnesota Duluth was contracted by MN HSEM to facilitate the development of this plan and to conduct spatial analysis, mapping and research for the plan.

This Hazard Mitigation Plan is one of many we are working on this year.

Working with U-Spatial@UMD is **Bonnie Hundrieser**, who specializes in Emergency Management planning.

Overview of Plan Update

Aitkin County is updating its Multi-Hazard Mitigation Plan (MHMP) to fulfill a state & federal requirement. The plan must be updated every 5 years. The last plan was adopted in 2015.

The purpose of the plan is to identify & assess natural hazards that pose risk to the county and it's jurisdictions and develop long-term strategies and mitigation actions that will help to reduce or eliminate the impact of future hazard or disaster events.



Hazard Mitigation is any action taken to reduce or eliminate long term risk to people and property from natural disasters.

PRESENTER: BONNIE HUNDRIESER

PRESENTER: STACEY STAR

Who the Plan Covers

This is a multi-jurisdictional plan that covers Aitkin County, including the cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack.

The county and cities are required to adopt the final plan. Townships are covered under the umbrella of the county but may also elect to adopt the plan.



Who Needs to **Participate**

Key Stakeholders

It is required to provide an opportunity for local county & municipal government, related agency stakeholders and neighboring jurisdictions to participate in the plan update.

2 Planning Team Meetings **Local Mitigation Survey** Provision of key data

MAC Review & Feedback Review of Draft Plan



The Public

It is required to provide an opportunity for the public to learn about the plan update, ask questions and provide input that may be incorporated into the plan update.

2 News Releases

Outreach conducted via websites, social media and local media

Online public review & comment period for draft plan

Prioritization of Hazards for Aitkin County



Prioritization of hazards by the Aitkin County planning team included consideration

- ➤ Probability and Severity of natural hazard events (risk)
- ➤Observed increase or decrease in risk since 2015
- > Jurisdictional variations in risk (i.e., local vulnerabilities, changes in development)

Hazard	2020 Priority
Tornadoes	High
Winter Storms	High
Flooding	High
Windstorms	High
Wildfire	Moderate
Drought	Low
Hail	Low
Lightning	Low
Extreme Cold	Low
Extreme Heat	Low
Landslides	Low

Hazards Risk Assessment

>Validate prioritization

>Transportation

>Utilities

- >Provide probability and severity of future events as possible
- >Identify vulnerable populations and structures at risk as possible
- >Consider variable jurisdictional vulnerability
- >Inform Mitigation Actions in the HMP



U-Spatial@UMD - County Coordination

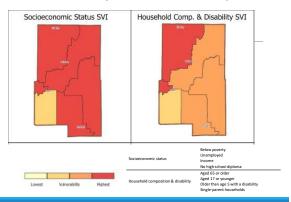
U-Spatial@UMD Team has worked closely with personnel from the county to collect key information for the plan update.

- County Emergency Management Director
- County GIS Specialist
- County Assessor
- County Departments (i.e. Highway, Planning & Zoning, others).
- Others (SWCD, USFS)

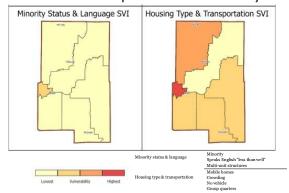
All Hazards — Critical Infrastructure



All Hazards - Population Vulnerability



All Hazards – Population Vulnerability



AITKIN COUNTY: Tornadoes (high)

- ➤ Based NCEI Storm Events Database through February 2020, the relative frequency of tornados in Aitkin County is .26 per year (18
- Tornadoes occurred in 2020 (EF1), 2019 (EF0) and 2016 (EF1).
- ➤ Current concerns about the availability of tornado safe rooms and upgrade of outdoor warning sirens.



August 29, 2013 Hill City-Remertornado

AITKIN COUNTY: Windstorms (high)

> The relative frequency of all windrelated events since January 1996 is 5.4 per year.





Labor Day, 2018 hail & wind storm damage to power poles and mobile home

AITKIN COUNTY: Winter Storms (high)



3.4 winter-related storm events per year in Aitkin County

Vulnerability - Program Gaps & Deficiencies:

- Aboveground Powerlines
- Backup Power for critical facilities
- Public sign-up for emergency notifications



AITKIN COUNTY: Flooding (high)



July, 2016 Long Lake overflowed shoreline and docks submerge



AITKIN COUNTY: Flooding (high)

- ➤ Obtained building and parcel values from County
- ➤ Used statewide building footprint data
- ➤ Obtained FEMA Flood Insurance Rate Maps
- Ran flood model to estimate economic loss
- ➤ Identified Critical Infrastructure in flood zone

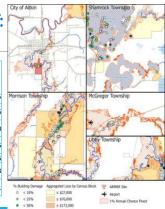


July, 2012 McGregor flood damag

PRESENTER: STACEY STARK

AITKIN COUNTY: Flooding (high)

Jurisdiction	Count of Buildings in Floodplain	Estimated Building and Contents Loss*
Aitkin County	237	\$4,351,177
Shamrock Township	47	\$1,281,186
Morrison Township	53	\$564,390
Libby Township	8	\$482,206
Aitkin City	7	\$479,156
Workman Township	23	\$322,928
Spencer Township	8	\$261,451

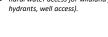


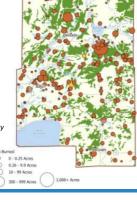
AITKIN COUNTY: Wildfire (moderate)

Minnesota DNR responded to 2,226 wildfires in Aitkin County between 1985 and June 2021, burning a total area of nearly 60,000 acres

Program Gaps/Deficiencies:

- Development of Aitkin County Community
 Wildfire Protection Plan (CWPP)
- Continued wildfire safety & awareness
- Rural water access for wildland fire fighting (dry hydrants, well access).





AITKIN COUNTY: Drought (low)



PRESENTER: STACEY STARK

Development of Mitigation Actions

- Must address hazards of high to moderate risk
- Must be jurisdictionallyspecific
- Should address local vulnerabilities & reduce risk
- Should incorporate existing planning mechanisms and capabilities



Important

Eligible FEMA HMA project
activities must be identified to
support a future grant
application.

FEMA HMA Grant Funding

- All applicants must be covered by an approved MHMP
- Cost share: Federal 75%, Applicant 25%
- Projects must address risk reduction
- Eligible projects must be identified in the plan of action.



Example Eligible Activities:

- Property Acquisition (flooding/erosion)
- Tornado Safe Rooms (new/retrofit)
- Infrastructure Retrofits (utility systems, roads & bridges)
- Wildfire Mitigation
- Soil Stabilization
- Flood Risk Reduction
- Green Infrastructure
- Other projects difficult to conduct a standard BCA

PRESENTER: BONNIE HUNDRIESEF

Mitigation Action Charts Overview

- County MAC (includes townships)
- City MACs
- 5-year window
- Please consider any additional mitigation actions you would like to add to your local MAC.

AITKIN COUNTY Mitigation Action Char							
,	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
	AB- Hamels	Education & Awareness Programs	Excourage all county residents to sign up for the county's Everlessing emergency northeation alert system.	Existing rings Congress	Atlas Cousty Energency Management (ACEM)	A link for the Everbridge energency northcoston crotter in located on the Artista County website and remanders are put out on the Ethertiff s Office Facebook page as well as during the NWE's Severe Worther Avanceass Week.	Circuity
	All- Hacards	Mitigation Preparedness is Response Support	Ensure the Addia County Ensegracy Operations Plan (EOP) is updated and addresses policies is provident sameded to support EM Macatous prior to, during, and Scilleving a diseaster.	Existing Moderate Ongoing	ACEM	ACEAI has an EOP that is updated on a regular basis which helps the country be ready to respond to disasters across a reage of EOI functions. This includes place in place for shelvering of displaced residents and per shelvering.	County
3	All- Hazarda	Mittention Proportions & Response Deport	Excur designated facilities are to place and prepared for providing mean case substrategy and county stoff on trained to challening operations.	Existing Moderate Ongoing	ACEM, AC Poble Health (ACPH)	ACM and ACPP maintens but of shelms within the mustry to likes; busined and for shelter operations. We perfore with the American Bed Cream to establish MCGs with facilities in the county to serve as official delater incitions that need ACC delay requirements for quar- and accomplishing. ACM will continue to work to ensure that all contrasted where are proposed with backup guessiton where seeled.	County

Local Planning & Regulations

AITKIN COUNTY EXAMPLES:

- Participating in the NFIP & policy enforcement for new development.
- Update of the County's CWPP for wildfire mitigation.
- Collaborating with SWCD and watershed districts to address flooding and erosion.
- Working with MHP operators to be in compliance with Minnesota State statutes for storm shelters & evacuation plans.
- Providing grant writing assistance to jurisdictions for mitigation activities.





PRESENTER: BONNIE HUNDRIES

Structure & Infrastructure Projects

AITKIN COUNTY EXAMPLES:

- Installation of new outdoor warning sirens.
- Construction of safe rooms / storm shelters at MHPs, campgrounds, city parks, fairgrounds.
- Burying powerlines to reduce power failure
- Implementing stormwater improvement projects for high rain and snow melt (i.e. drainage, culvert upsizing).
- Flood protection for critical infrastructure (i.e., levees or berms to protect lift stations, electrical substations).
- Conducting property buyouts of homes at risk from repetitive flooding or erosion and convert to open space.







PRESENTER: BONNIE HUNDRIESER

Natural Systems Protection

AITKIN COUNTY EXAMPLES:

- Conduct vegetation management along county-owned and city roads to reduce the risk of downed trees and branches resulting from severe storms.
- Encourage homeowners to create defensible space around existing structures or include in design of new development to reduce risk to wildfire.







PRESENTER: BONNIE HUNDRIESE

Education & Awareness Programs

AITKIN COUNTY EXAMPLES:

- Promoting sign-up for the County's Everbridge emergency notification system.
- Promoting residents to be aware of and prepared for severe weather and extended power outages.
- Encouraging residents to maintain sump pumps and to clear street drains of debris.
- Participation in the NWS Severe Weather Awareness Weeks
- SKYWARN Storm Spotter Training

everbridge



PRESENTER: BONNIE HUNDRIESER

Mitigation Preparedness & Response Support

AITKIN COUNTY EXAMPLES:

- Purchasing generators for critical services or facilities (i.e., sewer, city well, City Hall, fire hall, community centers).
- Updating EOP's
- Shelter Planning
- Working with long-term care facilities to be prepared for power outages or evacuation.
- Training local elected officials in EM responsibilities





PRESENTER: BONNIE HUNDRIESEF



Planning Team Meeting #2 and Public Review & Comment Period

Fall 2021

- Following Planning Team Mtg. #2, disseminate & document news release by county and jurisdictions.
- Conduct public review & comment period (stakeholder & public review of draft plan).
- Document and incorporate feedback into the plan as appropriate.



Fall-Winter 2021

Draft Plan Submission to HSEM & FEMA, Plan Approval, and Collection of Adopting Resolutions

- Draft plan will be submitted first to HSEM and then to FEMA for approval for meeting all Federal requirements.
- > Typically requires 1-2 months.
- > APA letter
- ➤ EM coordination of adopting resolutions

PRESENTER: BONNIE HUNDRIE

Questions?

What questions do you have for U-Spatial@UMD about the draft MHMP or next steps?

Contact Information

Stacey Stark, MS, GISP

U-Spatial@UMD

slstark@d.umn.edu

218-726-7438

Bonnie Hundrieser, HM Planner

Hundrieser Consulting LLC

hundrieserconsulting@outlook.com

218-343-3468





PRESENTER: STACEY STAR

PRESENTER: STACEYSTAR

Mitigation Strategies & Action Types

Following are the five types of mitigation strategies that will be used in the update of the Multi-Hazard Mitigation Plan with examples of related mitigation actions. Minnesota HSEM recommends the use of these mitigation strategies to be in alignment with the State plan and those recommended by FEMA. The first four strategies listed are taken from the FEMA publications *Local Mitigation Planning Handbook* (2013) and *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards* (2013). The fifth strategy type was determined by Minnesota HSEM for use within the state.

These strategies will provide the framework for identification of new jurisdictional-level mitigation actions for implementation over the next 5-year planning cycle.

Mitigation Strategy	Description	Example Mitigation Actions
Local Planning and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	 Comprehensive plans Land use ordinances Planning and zoning Building codes and enforcement Floodplain ordinances NFIP Community Rating System Capital improvement programs Open space preservation Shoreline codes Stormwater management regulations and master plans Mobile home park compliance for storm shelters
Structure and Infrastructure Projects	These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.	 Property Acquisitions and elevations of structures in flood prone areas Utility undergrounding Structural retrofits (i.e., metal roofs) Floodwalls and retaining walls Detention and retention structures Culvert Installation/Modification Roads & Bridge risk reduction Safe Room (New construction or facility retrofit) Green Infrastructure Methods Many of these types of actions are projects eligible for funding through FEMA HMA grant programs.

Mitigation Strategy	Description	Example Mitigation Actions
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	 Soil stabilization for sediment and erosion control Floodplain and Stream corridor restoration Slope management Forest management (defensible space, fuels reduction, sprinkler systems) Conservation easements Wetland restoration and preservation Aquifer Storage & Recovery Flood Diversion and Storage Many of these types of actions are projects eligible for funding through FEMA HMA grant programs.
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions that support life safety and lessen property damage.	 Radio or television spots Websites with maps and information Social media outreach Promotion of sign-up for emergency warnings Real estate disclosure Promotion of NFIP insurance to property owners Presentations to school groups or neighborhood organizations Mailings to residents in hazard-prone areas. NWS StormReady Program Firewise Communities Some of these types of actions may be projects eligible for funding through the FEMA HMA "5 Percent Initiative Program".
Mitigation Preparedness and Response Support	This is a State of Minnesota mitigation strategy with the intent of covering emergency preparedness actions that protect life and property prior to, during, and immediately after a disaster or hazard event. These activities are typically not considered mitigation, but support reduction of the effects of damaging events.	 Emergency Operations Plan Flood fight plans and preparedness measures Dam emergency action plans Emergency Warning Systems (i.e., CodeRed, warning sirens) Generator backup power NWS Storm Spotter Training Training and education for local elected officials and key partners.

Appendix G – Public Outreach & Engagement Documentation

Aitkin County MHMP News Release #1 Record of Public Input & Incorporation

Overview: On June 23, 2020, Aitkin County Emergency Management put out a news release titled "Public Input Wanted as County Updates Multi-Hazard Mitigation Plan" to announce the start of the county's Multi-Hazard Mitigation Plan. The news release provided information on the purpose and content of the plan, who the plan covers, stakeholders involved in the plan update and examples of hazard mitigation activities. Aitkin County used the news release to gather feedback from residents and businesses from across the County to incorporate into the plan, inviting feedback to the following:

- What are the natural hazards you feel pose the greatest risk to your community?
- Have you experienced a previous disaster event?
- What concerns do you have, and what sorts of mitigation actions or projects do you feel would help to reduce the damages of potential future events for your personal property, your community, or the County as a whole?

The public was strongly encouraged contact Aitkin County Emergency Management to submit comments, concerns, or questions regarding natural disasters and potential mitigation actions to be included into the plan update process. The public was also able to post comments electronically on county or city Facebook sites where the news release was posted.

Distribution: The following news release was sent via email to the county's MHMP Jurisdictional Contact List, which includes the names, titles, phone numbers, and email addresses of key stakeholders to be engaged in the MHMP update (County Contacts, City Contacts, Township Contacts, Other Stakeholder Contacts, and Neighboring Jurisdiction Contacts). The news release was additionally sent to local media contacts such as area newspapers, radio and television channels with a request to carry the news release.

Postings: The news release was shared via numerous channels to reach the public, including the Aitkin County Sheriff's Office Facebook page, Aitkin County Public Health Facebook page, and local newspapers and radio stations. Cities and townships were encouraged to help share the news release locally by posting it on their websites, social media, or community bulletin boards.

Public Input & Incorporation:

Following is a record of public responses to the news release and how their input will be incorporated into the plan update, and if not relevant to be addressed, why.

In response to the posting on the Aitkin County Sheriff's Office Facebook page, a resident posted the following comment: "I think you should utilize the ham radio operators in the county. We are free line of communication and many communities make good use of these professionals. Would love to get together and discuss what we can do. I know others would join in on a meeting."

Incorporation: This public comment does not need to be considered for incorporation into the MHMP as it relates to emergency response communications, not natural hazards mitigation.

2. Another county resident emailed the Aitkin County Sheriff directly with the following comment: "In my quest to get our county up to speed on preparing for an event that would last more than a few hours, should power not be available, I would recommend an emergency food kitchen mobile unit .the food unit can be self-contained with the ability to serve a population of 25 to 5000, with little as 3 people to 25 depending on the situation, when I was a mess sergeant for Cloquet National Guard I fed up to 150 people and privately have catered 500 plus for weddings when I ran a catering business, their were years when I helped design kitchens, for up-and-coming places like the black bear casino in cloquet. I am only sharing this so you can have a understanding I have the for knowledge of food distribution and ordering large quantities in a moment's notice. I would welcome the opportunity to sit down with you and share some ways we could overcome hurdles if and when events should arrive. Thank you."

Incorporation: This public comment does not need to be considered for incorporation into the MHMP as it relates to emergency response mass care feeding, not natural hazards mitigation.

Following is documentation of the means of public outreach for News Release #1.

Patrice Erickson

Jessica Sebert; Bill Prott; Mike D. Dangers; Terry B. Neff; Dan Haasker; John Weller, Rich P. Courtemanche; info@linglakecc.org; Cynthia Bennett; hughes altkinswed@mail.com; tratin@altkinpolice.com; streetdepartment@yahoo.com; defiffeetdistuffiles.com; jemball; maintenance@hillictv-mn.com; Bhonda Veider (resider@inverxoodhealthcare.org; defiffeetdistuffiles.com; jemball; maintenance@hillictv-mn.com; jemball; maintenance@hillictv-mn.co

. vr. muiti-Hazard Mitigation Plan Tuesday, June 23, 2020 3:25:56 PM 2020 MHMP release.docx

Greetings,

Aitkin County Emergency Management is commencing work on the update of the Aitkin County 5-year Multi-Hazard Mitigation Plan (MHMP). Attached is a news release for your information.

Over the next year, we will be working with a planning team made up of representatives from the County and each city covered by the plan, as well as townships and other key stakeholders to gather feedback and document participation in the planning process. Key activities will include participation in 2 planning team meetings, providing requested information, and identifying local mitigation projects that will help to reduce or eliminate the impacts of future hazard events. Please watch for emails inviting your participation in the coming months.

Cities and townships are encouraged to help share this news release locally to strengthen our public outreach. Please notify me if you have posted the news release and provide documentation of the posting (i.e. email a link to your website or social media, or email a picture of the posting on a community bulletin board).

I look forward to your participation in the Aitkin County MHMP update.

If you have any questions, please let me know.

Thank you.

V/R

Daniel G.Guida Aitkin County Sheriff C-218-839-2111 Dan.guida@co.aitkin.mn.us

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AITKIN COUNTY SHERIFF DANIEL G. GUIDA

217 2nd St. N.W., Rm 185 Aitkin, MN 56431 218-927-7435 / 1-888-900-2138 Emergency 911

Sheriff Fax: 218-927-7359 / Dispatch Fax: 218-927-6887

Aitkin COUNTY NEWS RELEASE 23 June, 2020

Public Input Wanted as County Updates Multi-Hazard Mitigation Plan

Tornadoes, straight-line winds, ice storms, blizzards, flooding, wildland fires and droughts are the kinds of natural disasters most likely to cause widespread economic loss and personal hardship in Aitkin County. Taking steps to minimize the damage from a natural disaster is key to the County's multi-hazard mitigation plan (MHMP); and as the County works to update the plan, it wants to hear from the public.

The Aitkin County Office of Emergency Management is currently working with U-Spatial at the University of Minnesota Duluth to update the County's plan. Also working on the update is a planning team of representatives from County departments, local municipalities, school districts and other key stakeholders such as utility providers.

The Aitkin County MHMP is a multi-jurisdictional plan that covers Aitkin County, including the cities of Aitkin, Hill City, McGrath, McGregor, Palisade, and Tamarack. The Aitkin County MHMP also incorporates the concerns and needs of townships, school districts, and other stakeholders participating in the plan.

"Hazard mitigation planning is a central part of our emergency management program," said Dan Guida, Aitkin County Sheriff and Emergency Management Director. "Understanding the natural hazards that can cause serious impact to our communities and taking action to reduce or eliminate the impact of future disasters makes us more resilient. Hazard mitigation helps us to break the cycle of damage and repair caused by things like flooding, ice storms, and severe wind events that can damage property, stress economies, and threaten life safety in our county."

Examples of hazard mitigation include actions include improvement of roads and culverts that experience repetitive flooding; construction of safe rooms at campgrounds, public parks, mobile home parks or schools to protect lives in the event of tornados or severe wind events; burying

powerlines that may fail due to heavy snow, ice or wind storms; ensuring timely emergency communication to the public through warning sirens and mass notification systems, and conducting public awareness and education campaigns to help people to be prepared to take safe action before, during, or following a hazard event. Some mitigation activities may be eligible for future FEMA Hazard Mitigation Assistance grant funding.

As part of the planning process, Aitkin County is seeking feedback from residents and businesses from across the County to incorporate into the plan:

- What are the natural hazards you feel pose the greatest risk to your community?
- Have you experienced a previous disaster event?
- What concerns do you have, and what sorts of mitigation actions or projects do you feel would help to reduce the damages of potential future events for your personal property, your community, or the County as a whole?

Comments, concerns, or questions regarding natural disasters and potential mitigation actions to be included into the plan update process should be submitted to Aitkin County Emergency Management.

There will be additional opportunities for public feedback throughout the planning process. A draft of the plan will be posted on the County website for public review prior to submission of the plan to the State of Minnesota. Future news releases will be shared with the media to notify the public of these opportunities.

The Federal Disaster Mitigation Act of 2000 (DMA 2000) requires counties to update their plan every 5 years to maintain eligibility for FEMA's Hazard Mitigation Assistance (HMA) grant programs.

Contact
Sheriff Dan Guida

Aitkin County Sheriff/Emergency Management Director

Phone: 218-927-7417

Email: Dan.guida@co.aitkin.mn.us

Aitkin County MHMP News Release #1 Documentation of News Release Postings

COUNTY POSTINGS

Aitkin County
County Website, June 23, 2020

News & Notices

The yard waste composting site located near the Oak Ridge Landfill 5 miles south of Aitkin is temporarily closed. Notice will be given once the site is re-opened.

- Multi-Hazard Mitigation Plan
- Aitkin County Household Hazardous Waste Collection
- · Tax-Forfeited Lands List
- Notice Of Vacancy: Aitkin Airport Commission
- Aitkin County E-waste | June 6, 2020
- Minnesota Open Appointment Act: Application For Service On A City/County/State Agency
- Public Notice: Social Services Block Grant Annual Report

Aitkin County Sheriff's Office Facebook Page, June 23, 2020



Aitkin County Sheriff Daniel G. Guida

Aitkin County News Release 23 June, 2020

Public Input Wanted as County Updates Multi-Hazard Mitigation Plan

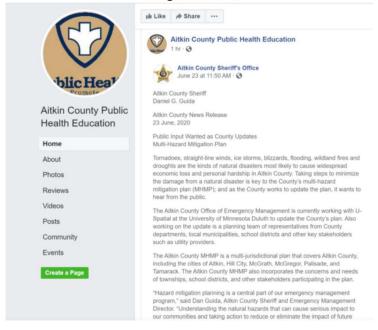
Tornadoes, straight-line winds, ice storms, blizzards, flooding, wildland fires and droughts are the kinds of natural disasters most likely to cause widespread economic loss and personal hardship in Aitkin County. Taking steps to minimize the damage from a natural disaster is key to the County's multi-hazard mitigation plan (MHMP); and as the County works to update the plan, it wants to hear from the public.

The Aitkin County Office of Emergency Management is currently working with U-Spatial at the University of Minnesota Duluth to update the County's plan. Also working on the update is a planning team of representatives from County departments, local municipalities, school districts and other key stakeholders such as utility providers.

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Aitkin County

Public Health Facebook Page, June 25, 2020



LOCAL MEDIA POSTINGS

Aitkin Independent Age Newspaper, July 1, 2020

Aitkin Independent Age www.aitkinage.com Wednesday, July 1, 2020 I A7

Aitkin County seeks feedback on hazard mitigation

mitigation plan (MHMP).

loss and personal hardship lowing a hazard event.

The Aitkin County Office in the event of tornados or of Emergency Management severe wind events; burying is currently working with power lines that may fail due U-Spatial at the University of to heavy snow, ice or wind Minnesota Duluth to update storms; ensuring timely the county's multi-hazard emergency communication to the public through warn-Tornadoes, straight-line ing sirens and mass notificawinds, ice storms, blizzards, tion systems, and conducting flooding, wildland fires and public awareness and educadroughts are the kinds of nat- tion campaigns to help peoural disasters most likely to ple be prepared to take safe cause widespread economic action before, during, or fol-

Brainerd Dispatch Newspaper, June 24, 2020



Local Radio Stations online (e.r.broadcasting.com), June 24, 2020

e.rjbroadcasting.com/?page=local-news&story=9366



Aitkin County seeks public input on Multi-Hazard Mitigation Plan

(Aitkin County, MN) --- Tornadoes, straight-line winds, ice storms, blizzards, flooding, wildland fires and droughts are the kinds of natural disasters most likely to cause widespread economic loss and personal hardship in Aitkin County. Taking steps to minimize the damage from a natural disaster is key to the County's multi-hazard mitigation plan (MHMP); and as the County works to update the plan, it wants to bear from the public.

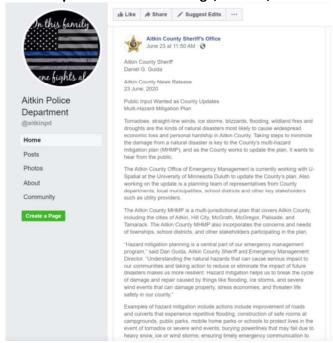
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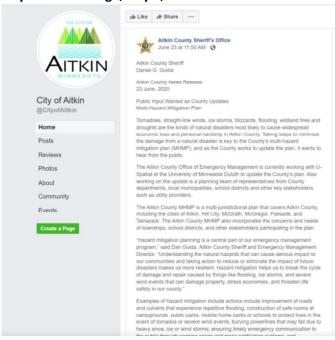
CITY POSTINGS

City of Aitkin

Police Department Facebook Page, June 23, 2020



City of Aitkin City Facebook Page, July 9, 2020



City of Hill City City Website Posting, July 13, 2020

Latest News

VIEW ALL NEWS





Public Input Wanted as County Updates Multi-Hazard Mitigation Plan

07-14-2020

Aitkin COUNTY NEWS RELEASE

23 June, 2020

Public Input Wanted as County Updates

Multi-Hazard Mitigation Plan

City of Hill City City Facebook Posting, July 1, 2020

AITKIN COUNTY SHERIFF DANIEL G. GUIDA 217 2" St. N.W., Rm 185 Aitkin, MN 56431 218-927-7435 (1-488-900-2138 Emergency 911

Sheriff Fax: 218-927-7359 / Dispatch Fax: 218-927-6887

Aitkin COUNTY NEWS RELEASE 23 June, 2020

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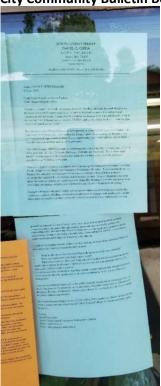
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City of Hill

City Community Bulletin Board, July 13, 2020





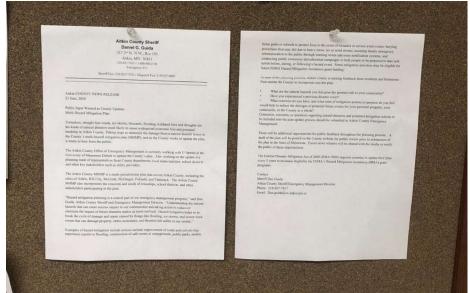
City of McGrath

Community Bulletin Board, July 13, 2020



City of McGregor

City Hall Community Bulletin Board, July 1, 2020



City of McGregor Mayor of McGregor Facebook Page, July 5, 2020



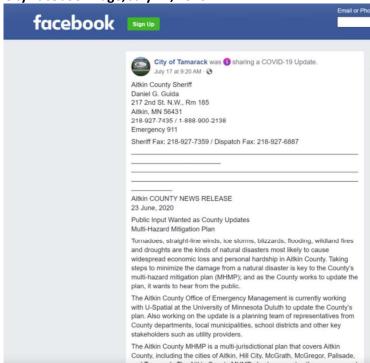
City of Palisade

Community Bulletin Board Posting, July 13, 2020



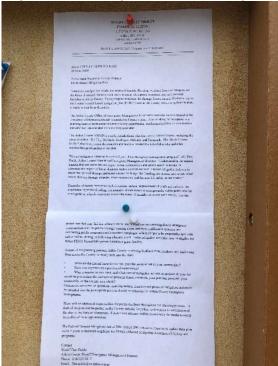
City of Tamarack

City Facebook Page, July 17, 2020



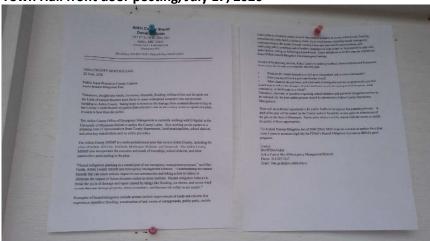
City of Tamarack

City Hall Community Bulletin Board, July 17, 2020



TOWNSHIP POSTINGS

Morrison Township Town Hall front door posting, July 17, 2020



Aitkin County MHMP News Release #2 Record of Public Input & Incorporation

Overview: On October 25, 2021 Aitkin County Emergency Management put out a news release titled "Public Input Sought for County's Multi-Hazard Mitigation Plan" to announce the completion of the draft Aitkin County Multi-Hazard Mitigation Plan and invitation for public review and comment. The news release informed jurisdictional stakeholders and the public that a copy of the draft plan and a form for public feedback was available online with a website link. The public review period for the draft plan was open from October 25 to November 7, for a total of 14 days.

Distribution: The news release was sent via email to the county's MHMP Jurisdictional Contact List, which includes the names, titles, phone numbers, and email addresses of key stakeholders to be engaged in the MHMP update, including County Contacts, City Contacts, Township Contacts, Other Stakeholder Contacts, and Neighboring Jurisdiction Contacts. (A copy of the Jurisdictional Contact List can be found in Appendix F). The news release was additionally sent to local media contacts such as area newspapers, radio and television channels with a request to carry the news release.

Postings: Attached is documentation of the news release postings by Aitkin County, participating jurisdictions, and local media. Cities and townships were encouraged to help share the news release locally by posting it on their websites, social media, or community bulletin boards.

Public Input & Incorporation:

Following is a record of public responses to the Aitkin County news release and how the input will be incorporated into the plan update, and if not relevant to be addressed, why.

Local Resident, City of Hill City Comment submitted via online feedback form, 10/26/21

Survey Question: Are there any issues in your community related to natural hazards that we did not address in the plan? Please explain in as much detail as possible.

Comment: A lot of people have cell phones and are not able to get notified by Aitkin County of weather like land lines are and that would be nice if they could be because most places don't have home phones anymore.

Incorporation: No incorporation needed. Aitkin County emergency notifications put out by the Sheriff's Office go to all registered cell phones and land lines. The Aitkin County mitigation action chart addresses the activity of promoting resident sign up for emergency notifications: Mitigation Action #2: Encourage all county residents to sign-up for the county's Everbridge emergency notification alert system.

Local Resident, City of McGregor Comment submitted via online feedback form, 10/27/21

Survey Question: After reviewing the mitigation actions for your jurisdiction, do you have any ideas for new ones to add? Please explain in as much detail as possible.

Comment: The city of McGregor needs to update its tornado siren. The one that's in town can barely be heard in town.

Incorporation: The City of McGregor identified this matter as an issue to address in their Local Mitigation Survey in Part C.1, Local Mitigation Projects: "The city's emergency warning siren was designed to notify firefighters of fire calls 60 years ago and the sound is blocked to the east as the siren is lower than the fire station next to it. The city has received complaints about residents not being able to hear the warning siren inside their homes during the monthly tests. The current warning siren does not cover our manufacturing district or the assisted living facility. We would like to replace our current siren and add an additional siren to better cover the city." As a result, the City of McGregor included a mitigation action in their jurisdictional mitigation action chart to address replacement of their tornado siren: Mitigation Action #5 - "Replace our current outdoor warning siren and add an additional siren to better cover the city."

Bonnie K Hundrieser

MHMP Feedback requested

Tuesday, October 26, 2021 12:56:33 PM 10-25-21 Aitkin County 2020 MHMP Release #2.pdf

Aitkin County Sheriff Daniel G. Guida 217 2nd St. N.W., Rm 185 Aitkin, MN 56431 218-927-7435 / 1-888-900-2138 Emergency 911

Sheriff Fax: 218-927-7359 / Dispatch Fax: 218-927-6887

Aitkin COUNTY NEWS RELEASE 25 October, 2021

Public Input Sought for as County's Multi-Hazard Mitigation Plan

Aitkin County has completed an updated draft of the of its Multi-Hazard Mitigation Plan (MHMP) and is now seeking public feedback on it. Citizens can find a link to review the plan and offer feedback by visiting https://z.umn.edu/aitkin_hmp. The review and comment period is open through Sunday, November 7, 2021. After that, the county will submit the draft plan to the State of Minnesota and the Federal Emergency Management Agency (FEMA) for review.

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Aitkin County is vulnerable to a variety of potential natural disasters, which threaten the loss of life and property in the county. The plan addresses how to mitigate against hazards such as tornadoes, flooding, wildland fires, blizzards, straight-line winds, ice storms, and droughts which have the potential for inflicting vast economic loss and personal hardship.

Update of the plan has been under direction of Aitkin County Emergency Management in cooperation with U-Spatial at the University of Minnesota Duluth and representatives from County departments, city and township governments, school districts, and other key stakeholders. Together, the planning team worked to identify cost-effective and sustainable actions to reduce or eliminate the long-term risk to human life or property from natural hazards. Some examples include improvement of roads and culverts that experience repetitive flooding; construction of safe rooms at campgrounds, public parks, mobile home parks or schools to protect lives in the event of tornados or severe wind events; burying powerlines that may fail due to heavy snow, ice or wind storms: ensuring timely emergency communication to the public through warning sirens and mass notification systems, and conducting public awareness and education campaigns to help people be prepared to take safe action before, during, or following a hazard event.

Hazard mitigation planning helps Aitkin County and other jurisdictions protect their residents. Working with local communities through the process helps identify vulnerabilities and develop strategies to reduce or eliminate the effects of a potential hazard. In addition, increasing public awareness of local hazards and disaster preparedness helps to create a community that is resilient to disaster, and breaks the cycle of response and recovery. Updating the plan further allows the County and its jurisdictions to apply for eligible projects under future Hazard Mitigation Assistance (HMA) grant funding from FEMA for projects that are cost-effective and will help to reduce or eliminate impacts of future natural disaster events.

Community feedback is vital to the success of the plan. Aitkin County invites public review and feedback of the draft plan prior to submitting it to the State of Minnesota and the Federal Emergency Management Agency (FEMA) for review. Feedback may be provided via the online comment form or directly to Aitkin County Emergency Management.

As a courtesy to us, please post this news release using your township, city websites, or Facebook and to provide me with the link. Posting a hardcopy of the news release in a public area such as a community bulletin board or City Hall window is also acceptable. Please take a picture of the posting and share with me via email so I can track the progress.

Contact Sheriff Dan Guida Aitkin County Sheriff/Emergency Management Director Phone: 218-927-7417 Email: Dan.guida@co.aitkin.mn.us

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AITKIN COUNTY SHERIFF DANIEL G. GUIDA

217 2nd St. N.W., Rm 185 Aitkin, MN 56431 218-927-7435 / 1-888-900-2138 Emergency 911

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Email: Dan.guida@co.aitkin.mn.us

Aitkin County MHMP News Release #2 **Documentation of News Release Postings**

COUNTY POSTINGS

Aitkin County Sheriff's Office Facebook Page, October 26, 2021



Aitkin County Sheriff's Office The Aitkin County Sheriff's Office is committed to safeguarding the lives and property of the citize

About Photos Videos Aitkin County Sheriff's Office October 26 at 1:38 PM · ③ Intro 6.7K Followers Aitkin County Sheriff Page ⋅ Law Enforcement Agency Aitkin COUNTY NEWS RELEASE... See more 218 1st St NW, Aitkin, MN, United States, Minnesota SITES.GOOGLE.COM **(**218) 927-7435 Aitkin County Aitkin County is currently in the process of updating its Multi-Hazard Mitigation Plan. Before co.aitkin.mn.us/departments/public-safety/public-safety.html

the plan is submitted to the State of Minnesota...

Aitkin County Public Health Facebook Page, November 2, 2021

■ Always Open ∨



LOCAL MEDIA POSTINGS

Brainerd Dispatch Online news, November 3, 2021



CITY POSTINGS

City of Aitkin

City of Hill City

Facebook Page, November 2, 2021



City of McGrath

City of McGregor

City of Palisade

City Hall Posting, November 2, 2021



City of Palisade Facebook posting, November 2, 2021



City of Tamarack City Hall Posting, November 2, 2021



Aitkin County MHMP 2021 Online Public Review Website & Comment Form

Public Review Website

The Aitkin County 2021 MHMP Update was made available for public review online with a website hosted by U-Spatial@UMD. The website provided a full draft of the 2021 MHMP update and individual excerpts of the Mitigation Action Charts for the county and each city jurisdiction. An online comment form was also provided for the submission of public comments or questions.



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Aitkin MHMP Feedback & Comments Form

The online comment form provided an opportunity for reviewers to submit feedback on the plan. Feedback submitted was collected by U-Spatial@UMD and reviewed for incorporation into the plan. The form included the following:

Instructions

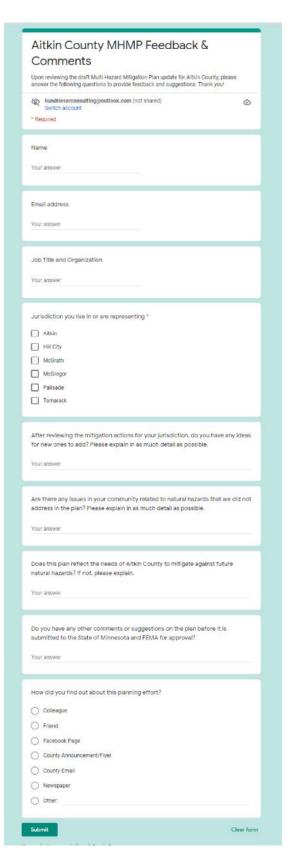
Upon reviewing the draft Multi-Hazard Mitigation Plan update for Aitkin County, please answer the following questions to provide feedback and suggestions. Thank you!

Reviewer Information

- Name
- Email
- Job Title and Organization
- Jurisdiction you are representing

Questions

- After reviewing the mitigation actions for your jurisdiction, do you have any ideas for new ones to add? Please explain in as much detail as possible.
- Are there any issues in your community related to natural hazards that we did not address in the plan?
 Please explain in as much detail as possible.
- Does this plan reflect the needs of Aitkin County to mitigate against future natural hazards? If not, please explain.
- Do you have any other comments or suggestions on the plan before it is submitted to the State of Minnesota and FEMA for approval?
- How did you find out about this planning effort?
 - o Colleague
 - o Friend
 - Facebook Page
 - County Announcement/Flyer
 - County Email
 - Newspaper
 - Other



Appendix H – Minnesota Department of Health Climate & Health Report

Planning for Climate & Health Impacts in Northeast Minnesota

Emergency Management Considerations for HSEM Region 2

Published by the Minnesota Climate & Health Program in August 2018



ABOUT THE REGIONAL PROFILE

EXTREME WEATHER IS A FAMILIAR CONCERN FOR MINNESOTANS

While experience has helped Minnesotans adapt to historical weather patterns, climate change trends are pushing us to adapt even further to weather patterns and extreme events that pose major threats to our health, homes, environment, and livelihood. Over 50 years of storm data on record document that Minnesota has experienced an increase in the number and strength of weather-related natural disasters, particularly those related to rising temperatures and heavy downpours. These events cost our state millions in property loss, damaged infrastructure, disrupted business, medical care and support services, and put residents and responders at risk. Understanding how our weather is changing now and into the future will help planners and decision-makers in emergency management and supporting fields extend our progress in climate adaptation and lead to more resilient communities.

CLIMATE PROJECTION DATA AS A TOOL

Climate projections can help us prepare for the future. These data result from highly sophisticated global climate models and provide a general idea of trends in temperature and precipitation many decades into the future at everincreasing time and spatial scales. Like every dataset, there are limitations to our understanding and application of the information to real-life decision-making. Yet despite limitations, climate projection data offer a crucial glimpse into our potential futures, and allow us to start considering the best way to allocate our preparedness dollars and management resources to reduce the severe impacts of extreme weather.



Pagami Creek Fire (Greg Sietz, 2011)

PUTTING CLIMATE CHANGE INTO CONTEXT

Sometimes, climate change and extreme weather events and the impact on our communities appear distant and abstract. That is why the Minnesota Department of Health's Minnesota Climate & Health Program teamed up with state and local emergency management and preparedness professionals as well as state climatologists to develop a custom climate profile for each of the six Homeland Security and Emergency Management (HSEM) regions across the state. Each regional profile includes a description of climate change trends along with a summary of climate projection data to illustrate these trends. Regional climate data are presented alongside population projection data, as it's important to consider both our climate future and population future as we plan to minimize risk and build resilience against climate impacts.

Additionally, each regional profile provides a local case study, a "focusing event," to illustrate the links between extreme weather and natural disasters and what climate projection data can (and cannot) signify for similar events in the future. Each case study features a recent natural disaster that impacted the HSEM region and provides a comparison between temperature and precipitation measures related to that event alongside historical baseline trends and future projection estimates. Taken together, the six HSEM regional profiles provide an extensive overview of climate change trends for Minnesota and describe the potential impact of these trends for emergency management and preparedness professionals and their partners.

FOR MORE INFORMATION

A long form report, including all six profiles, individual county data, and a more comprehensive description of climate change trends and supporting research will be available at:

<u>Minnesota Climate & Health Planning Tools & Data</u> (www.health.state.mn.us/divs/climatechange/data.html)

REGION 2 OVERVIEW

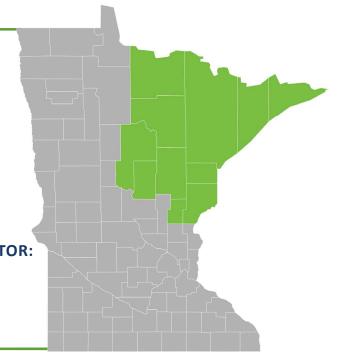
REGION 2: Northeast Minnesota COUNTIES

- Atkin
- Carlton
- _
- Cass
- Cook
- Crow Wing
- Itasca

- Kanabec
- Koochiching
- Lake
- Pine
- St. Louis
- **HSEM REGIONAL PROGRAM COORDINATOR:**

Roy Holmes 218-327-4496

roy.holmes@state.mn.us



MINNESOTA CLIMATE & POPULATION TRENDS

OUR KNOWLEDGE OF CLIMATE CHANGE IS EXPANDING RAPIDLY

Climate records show that across the Midwest and here in Minnesota we are experiencing an increase in warmer, wetter conditions as well as an increase in extreme weather events and related natural disasters. Experts expect these conditions to continue well into the future. By mid-century, Minnesotans can expect much warmer winters, more severe summer heat waves, a higher frequency of very heavy rain events and a higher frequency of late growing season drought conditions.

Many communities in Minnesota rely on economies rooted in agriculture and outdoor recreation, such as wintertime tourism, including snowmobiling, ice fishing, and skiing. Future climate conditions may stress agricultural economies by delaying planting and fieldwork, increasing disease and pest pressure, and reducing crop yields due to cycles of flooding and dry spells. Rapidly warming winter temperatures will turn snowfall into rain and reduce the depth and timing of lake ice cover, affecting winter recreation.

Extreme rainfall events will increase flood risk, particularly in floodplain areas, disrupting transportation and utility service, and damaging property and infrastructure. In addition, surface runoff may lead to soil erosion, lake pollution, and reduced drinking water quality. Nutrient runoff in particular, along with warmer temperatures, are likely to contribute to a larger occurrence of harmful algal blooms on waters, many valued for recreation. Changing climate conditions are likely to strain the viability of native species, including popular recreational fish, invite encroachment by invasive species, and increase the geographic range and types of ticks and mosquitoes.

Some of these trends are evident in the current climate projection data that are available. However, because these data are often averaged or summarized for large areas over large time periods, they can mask the local peaks in temperature and precipitation that can trigger disasters. Until more finely-scaled climate projection data become available to Minnesota planners and decision-makers, the current data still remain useful for exploring the future ahead and establishing a baseline understanding of what our weather challenges may be moving forward.

REGION 2 CLIMATE PROFILE

Use the following information on temperature, precipitation, and vulnerable populations to help plan for future weather-related incidents.

TEMPERATURE

There has been an increase in winter and summer temperatures. Our average winter lows are rising rapidly, and our coldest days of winter are now warmer than we have ever recorded. In fact, Minnesota winters are warming nearly 13 times faster than our summers. The continued rise in winter temperatures will result in less snow pack, which will increase chances for grassland/wildfires as well as drought. The warmer winter temperatures will also have major consequences for our ecosystems, including native and invasive species, whose growth, migration, and reproduction are tied to climate cues. The increase in Lyme disease across Minnesota is also likely influenced in part by the loss of our historical winters, due to a longer life-cycle period for ticks. Freeze-thaw cycles are likely to increase as well, damaging roads, power lines and infrastructure, and causing hazardous travel conditions. By mid-century our average summer highs will also see a substantial rise, coupled with an increase in more severe, prolonged heat waves that can contribute to drought and wildfires and pose a serious health threat, particularly to children and seniors. Here are temperature trends for HSEM Region 2:



Average Summer Maximum Temperature for HSEM Region 2						
1981-2010 2050-2075 Change						
77.2 °F 84.6 °F +7.4 °F						



Average Winter Minimum Temperature for HSEM Region 2						
1981-2010	Change					
1.2 °F 11.3 °F +10.1 °F						

PRECIPITATION

There has been an increase in total average as well as heavy precipitation events, with longer periods of intervening dry spells. Our historical rainfall patterns have changed substantially, giving rise to larger, more frequent heavy downpours. Minnesota's high-density rain gauge network has captured a nearly four-fold increase in "mega-rain" events just since the year 2000, compared to the previous three decades. Extreme rainfall events increase the probability of disaster-level flooding. However, there is also an increased probability that by mid-century heavy downpours will be separated in time by longer dry spells, particularly during the late growing season. Over the past century, the Midwest hasn't experienced a significant change in drought duration. However, the average number of days without precipitation is projected to increase in the future, leading Minnesota climate experts to state with moderate-to-high confidence that drought severity, coverage, and duration are likely to increase in the state. Modeling future precipitation amounts and patterns is less straight-forward compared to temperature. Some climate models do a better job than others representing rainfall for the Midwest, and available data sources only provide average estimates on a monthly scale, masking the spikes in extremes that trigger flood and drought disasters. Trend data provided here for HSEM Region 2 are summarized for early summer, when historically Minnesota receives most of its rainfall, and for early fall when rainfall scarcity may threaten crop harvests and local agricultural economies:



Average Early Summer Precipitation for HSEM Region 2						
1981-2010	Change					
4.1" 4.7" +0.6'						



Average Early Fall Precipitation for HSEM Region 2						
1981-2010 2050-2075 Change						
2.9" 2.9" 0.0"						

VULNERABLE POPULATIONS

There has been an increase in the older adult population. Extreme weather events cause a range of health impacts and disruptions that vary across population groups. The vulnerability of a group is a function of its sensitivity to a hazard, exposure to risks, and capacity for responding or coping with the impacts. Children and older adults are often identified as groups vulnerable to climate change threats, including extreme weather and natural disasters. For example, physiologically these groups have a lower capacity to tolerate extreme heat and are often dependent on others for transportation to cooling centers. These groups are also often critically dependent on others during a disaster, such as needing help to evacuate during a flood or wildfire, or to find alternative housing if displaced. Planning for the specific needs of vulnerable populations strengthens local efforts to reduce the impact of extreme weather-related events. Population trend data provided here for HSEM Region 2 are intended to highlight the changes in two key demographic groups for the region, but planners and managers should also consider future changes in other populations of concern, such as those with low incomes, immigrant groups, indigenous peoples, persons with disabilities, or vulnerable occupational groups (such as outdoor workers):



Childhood Population (0-14) Projection Estimates for HSEM Region 2							
2015 2050 Change							
76,714 66,044 -14%							



Elder Population (65+) Projection Estimates for HSEM Region 2						
2015 2050 Change						
93,639 121,876 +30%						

REGION 2 CASE STUDY

The following case study is intended to illustrate the links between climate and weather and natural disasters. Acting as a "focusing event," the case study demonstrates how a previous weather-related event (i.e., wildfire) impacted important economic drivers, environmental resources, and population health. Then, the Climate Projection Data section compares weather data from the case study with baseline and projected weather data to show the possibilities of future disaster events. This case study highlights the relevancy of climate projection data for understanding future climate and weather risks in Minnesota.

EVENT: WILDFIRE

DATE: 2011

The Pagami Creek Wildfire was first detected on August 18th, 2011 in Lake County, approximately 13 miles east of the town of Ely, inside the Boundary Waters Canoe Area Wilderness (BWCA). Likely caused by a lighting strike in a bog area, it grew to become the largest wildfire in Minnesota since 1918.

At first the fire kept to a small quarter acre within the bog, but on August 26th, a drop in relative humidity coupled with strong wind pushed flames up into tree tops spreading the fire to approximately 130 acres. Dry conditions and a lack of rain made fire suppression difficult. Then, on September 12th, extreme shifting winds caused the fire to expand dramatically in multiple directions to approximately 93,000 acres. Smoke from the Pagami Creek Wildfire drifted east and south to the Upper Peninsula of Michigan, Ontario, Chicago, even as far as Poland, Ukraine, and Russia. The extent of smoke drift demonstrates that while wildfires may occur locally, the air quality impacts are far-reaching.

REGION 2 CASE STUDY: KEY IMPACTS

It is nearly impossible to capture all the various impacts from a natural disaster. These impacts broadly include costly infrastructure damage, disrupted utility service, prolonged work and school absences, acute physical injury, and persistent strains on mental health, on scales ranging from the community to the household to the individual.

The extensive costs associated with the 2011 Pagami wildfire are difficult to capture in a single estimate. Besides evacuations and structural damage, there were substantial costs associated with mobilizing more than 960 firefighters and support personnel to suppress the fire and support affected communities. The Minnesota National Guard was called up to assist with response efforts. Some sources cite that the fire-fighting effort alone cost nearly 23 million dollars. Despite major investments in fighting the fire, essential resources were limited due to aircraft and personnel being dedicated to competing wildfires in the south and west regions of the U.S. In addition, months of battling the flames required a massive cleanup of more than 150 miles of fire hose, water pumps, watercraft, and other gear.

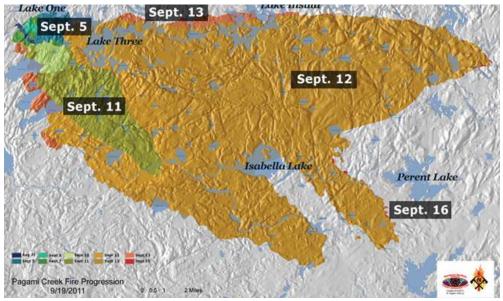
The following are just a few examples of the adverse impacts on HSEM Region 2 communities from the Pagami Creek Wildfire:

PUBLIC SAFETY: No fatalities occurred but there were major threats to firefighters and other emergency personnel during fire suppression response. In addition, the fires burned large portions of the BWCA wilderness, a very popular recreation destination, endangering visitors spread throughout a large area and beyond the reach of easy communication. Particulate matter from the fires posed a serious threat to respiratory health, particularly for individuals with asthma, lung disease, heart ailments, and other conditions. Air quality alerts were released across numerous Minnesota, Wisconsin, and Illinois counties.

DISPLACEMENT & DISRUPTED COMMUNITY

NETWORKS: Fires threatened numerous homes, cabins, and businesses and required mandatory evacuation of at least 36 addresses and numerous campsites within the BWCA. Most of the eastern BWCA was closed during peak fire suppression response.

INFRASTRUCTURE FAILURES: Many county and Forest Service roads closed. Smoke and ash from the fire made land and air travel extremely dangerous. In some areas, visibility was reduced to one-and-a-half miles.



REGION 2/6

Pagamic Creek Fire Progression (Boundary Waters Canoe Area Wilderness, 2011)



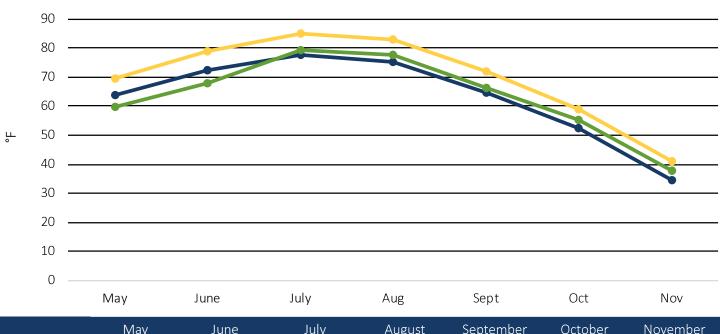
CLIMATE PROJECTION DATA

Following are visual representations of climate projection data for Region 2 Lake County, given that the Pagami Creek Wildfire burned mainly within this county. (Data for individual counties are available in the long-form report.) The graphs below compare future temperature and precipitation projection data (in yellow) with a historical climate baseline (in blue) and weather data associated with the Pagami wildfire (in green). Although wildfires seem to have an abrupt onset, they are often enabled by persistent weather conditions, like high temperatures and lack of rainfall. Thus, data are provided starting from the early part of summer to the end of fall to highlight conditions leading up to the event and those that persisted which exacerbated the spread of the fires and complicated management and risk reduction activities.



Maximum Temperature

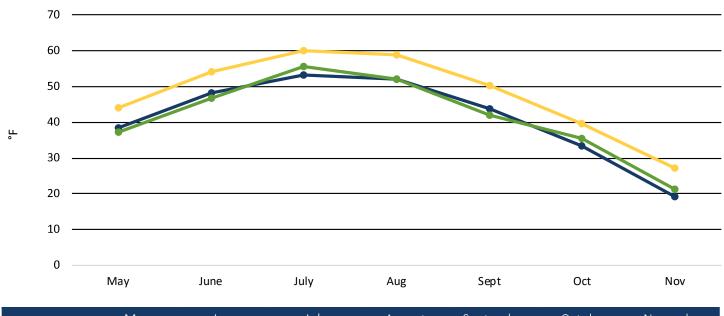
Trend comparison to 2011 wildfire data



	May	June	July	August	September	October	November
Historical	63.7	72.5	77.5	75.2	64.8	52.3	34.5
Case Study	59.9	68.0	79.5	77.6	66.3	55.2	37.7
Projected	69.4	78.8	85.1	82.9	72.1	59.0	41.2

Minimum Temperature

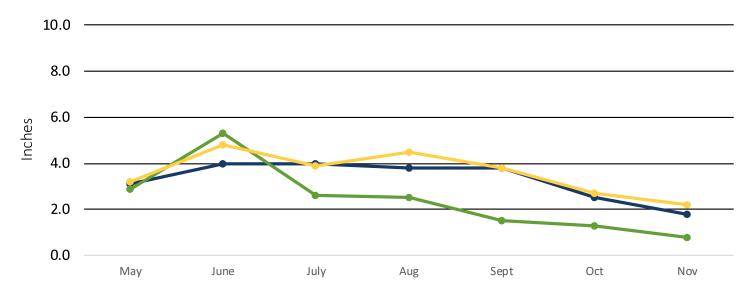
Trend comparison to 2011 wildfire data



	May	June	July	August	September	October	November
Historical	38.5	48.2	53.4	52.0	43.7	33.4	19.2
Case Study	37.2	46.6	55.5	52.0	42.0	35.6	21.3
Projected	44.2	54.1	60.1	59.0	50.4	39.7	27.1

Total Precipitation

Trend comparison to 2011 wildfire data



	May	June	July	August	September	October	November
Historical	3.1	4.0	4.0	3.8	3.8	2.5	1.8
Case Study	2.9	5.3	2.6	2.5	1.5	1.3	0.8
Projected	3.2	4.8	3.9	4.5	3.8	2.7	2.2

SUMMARY

CLIMATE DATA EXPERTS expect that future climate conditions across the Midwest will continue to change and affect our environment, economy, and public health. Such conditions are projected to lead to a higher frequency of late growing season drought conditions, elevated winter temperatures with reduced snowpack, prolonged high heat days, and extended periods of low rainfall. Similar conditions in the past likely contributed to the 2011 Pagami wildfire disaster. Summer maximum and minimum temperatures were slightly above average leading up to the start of the wildfire. Midcentury climate estimates indicate that average summer maximum and minimum temperatures for Lake County will be approximately 6-8°F warmer than historical trends. These significantly warmer temperatures will likely increase the risk of wildfires, particularly in areas with existing vulnerabilities, such as dead or dying vegetation or expansion of residential development in wilderness areas.

Precipitation was well below average for the spring and summer season leading up to the start of the wildfire. This dry period continued into the fall season, making suppression efforts difficult. Midcentury climate estimates indicate minimal changes in average monthly precipitation for Lake County, with the exception of March, June, and August, which may receive well over a half inch additional rain compared to historical trends. The additional rain may help alleviate some of the fire pressures brought about by rising temperatures. However, climate experts predict that rainfall patterns will change across the Midwest, with rainfall occurring more often as heavy precipitation events separated in time by longer, more severe dry spells. Prolonged periods without rain can harden the ground so when rainfall does occur, it is less likely to be absorbed by the dry soil, and it will remain susceptible to fire.

climate data is a critical tool in planning for resilient communities into the future. Assessing threats from climate change and planning effective mitigation and response strategies is a key element for emergency managers and other planners to reduce future risk. It is crucial to understand the potential impacts of climate change and the associated priorities and vulnerabilities of communities, including population, the environment, critical infrastructure, and more. However, vulnerability is a nuanced concept and most effective as an indicator of risk when planners seek to understand and address vulnerability as close to the individual level as possible and in association with a specific hazard.

Climate data is a critical tool in planning for resilient communities into the future.

For example, in HSEM Region 2, population projections show a decrease in children but a substantial increase in seniors. Older people may be more at-risk for respiratory complications during dry, dusty periods, or have limited access to transportation if wildfires necessitate evacuation. Considering the impacts of climate change to vulnerable populations is just one example of how to prioritize mitigation and response planning.

CLIMATE PROJECTION DATA continues to improve and should be considered as a priority to advance for Minnesota. Currently, global climate models that produce climate projection data for the Midwest are more accurate at simulating future temperature changes than they are for precipitation. However, the accuracy and resolution of these models are advancing rapidly as are their ability to model the future prevalence in short-duration, high-intensity localized heavy rainfall events.

Minnesota would benefit from a statewide high-quality climate projection dataset that is derived using the climate and environment features unique to our state, similar to datasets developed for other states. Meanwhile, data from national resources, like the U.S. Geological Survey (USGS) and National Oceanic and Atmospheric Administration (NOAA), can still provide a powerful input to regional scenario-planning efforts by allowing planners, managers, and analysts a means of "unpacking" general climate change predictions for the Midwest by looking at potential monthly fluctuations in coarse precipitation and temperature measures for Minnesota and its counties.

NEXT STEPS: MINIMIZE RISK & BUILD RESILIENCE

Prepare today for tomorrow's climate hazards. Emergency managers, planners, elected officials, and the public play a critical role in creating safe and healthy communities, especially in the face of extreme weather events. There are steps you can take to minimize local risk and build more resilient communities:



BRING EVERYONE TO THE TABLE: Build an inclusive yet nimble team to collectively identify climate hazards and potential impacts. Be sure to include members of the community; local department professionals responsible for built, natural, and health resources; planning commissioners; faith-based and cultural organizations; research centers; and commercial organizations. Including diverse perspectives throughout your process will help support more equitable planning efforts that best leverage crossfunctional resources.



INCORPORATE CLIMATE INTO PLANNING: Incorporate climate projection data into planning efforts, such as exercise scenarios and long-range planning, to comprehensively identify future climate hazards and potential cascading effects. Explore how these interact with non-climate hazards in the community, such as aging infrastructure, to understand potential exposure to multiple threats and prioritize actions that build the community's capacity to respond.



CHAMPION CLIMATE & HEALTH: Be a champion for climate and health data. Seek opportunities to learn about these data and incorporate it in your work on an iterative basis. Support its application in professional networks and articulate the need to fund dynamically downscaled climate projection datasets for Minnesota. Climate data is a critical multi-discipline tool in proactively planning for resilient communities.

RESOURCES & REFERENCES

TOOLS & DATA

- <u>Climate at a Glance: National Climatic Data Center</u>, National Oceanic and Atmospheric Administration Source for all historical and much of the case study data presented in this profile. www.ncdc.noaa.gov/cag/
- <u>Incident Information System</u>, InciWeb
 National data source for incident related information, including wildfire.
 https://inciweb.nwcg.gov/
- <u>Minnesota Climate and Health Profile Report (PDF)</u>, Minnesota Department of Health Profiles historic climate trends, future projections, and likely climate change impacts on the health of Minnesotans. http://www.health.state.mn.us/divs/climatechange/docs/mnprofile2015.pdf
- Minnesota Climate Change Vulnerability Assessment (PDF), Minnesota Department of Health Assesses five climate hazards and the populations that are most vulnerable to the hazards in Minnesota. http://www.health.state.mn.us/divs/climatechange/docs/mnclimvulnreport.pdf
- Minnesota Population Projection Data, Minnesota State Demographic Center Source for all population projection data presented in this profile. https://mn.gov/admin/demography/data-by-topic/population-data/our-projections/
- <u>National Climate Change Viewer</u>, United States Geological Survey Source for all climate projection data presented in this profile. www2.usgs.gov/climate_landuse/clu_rd/nccv/viewer.asp

RESOURCES & REFERENCES

KNOWLEDGE & CAPACITY

- <u>Climate Change and Minnesota</u>, Minnesota Department of Natural Resources Source of information on climate change trends and impacts for Minnesota, with an emphasis on natural resources. https://www.dnr.state.mn.us/climate/climate_change_info/index.html
- <u>Five Steps Toward Enhancing Climate Resilience</u>, Emily Wasley, DomesticPreparedness.com Practical action steps to help emergency managers build a path to enhance their climate resilience. <a href="https://www.domesticpreparedness.com/resilience/five-steps-toward-enhancing-climate-resilience/five-steps-
- <u>U.S. Climate Resilience Toolkit</u>, United States Global Change Research Program Information and tools to help communities adapt to climate change, featuring real-world case studies. https://toolkit.climate.gov/
- <u>Wildfire Information Center</u>, Minnesota Department of Natural Resources Information source for fire danger and updates, including fire weather forecasts for Minnesota. https://www.dnr.state.mn.us/forestry/fire/wildfirereports_tools.html

REFERENCES

• United States Department of Agriculture Forest Service, 2012. <u>Pagami Creek Wildfire</u>. https://www.fs.usda.gov/detail/superior/home/?cid=stelprdb5341928



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Front cover photo: Pagami Creek Fire (Derek Montgomery, 2011)

Minnesota Department of Health

Climate & Health Program
health.climatechange@state.mn.us
651-201-4899
www.health.state.mn.us/divs/climatechange/





Appendix I Aitkin County Critical Infrastructures

Healthcare Facilities

Name	Address	City	Zip	Type
Aicota Health Care Center	850 Second Street Northwest	Aitkin	56431	Nursing Homes
Aitkin Health Services	301 Minnesota Avenue South	Aitkin	56431	Nursing Homes
Aicota Health Care Center Inc	850 2nd Street NW	Aitkin	56431	Nursing Homes
Golden Horizons	518 7th Ave NE	Aitkin	56431	Nursing Homes
Northland Village McGregor	22027 420th Street	McGregor	55760	Nursing Homes
Rivers Edge Assisted Living In	11 Minnesota Avenue South	Aitkin	56431	Nursing Homes
Riverwood Healthcare Center	200 Bunker Hill Drive	Aitkin	56431	Hospitals

Emergency Services

Name	Address	City	Zip	Type
McGregor Volunteer Fire Department Station 2	49954 Lake Avenue	McGregor	55760	Emergency Medical Services (EMS)
McGregor Volunteer Fire Department Station 1 / McGregor Area Ambulance	101 East Center Avenue	McGregor	55760	Emergency Medical Services (EMS)
North Memorial Medical Transportation - Aitkin	500 Bunker Hill Drive	Aitkin	56431	Emergency Medical Services (EMS)
Palisade Volunteer Fire Department	48052 Nature Avenue	Palisade	56469	Emergency Medical Services (EMS)
Aitkin County Emergency Operations Center	217 2nd Street Northwest	Aitkin	56431	Emergency Operations Centers (EOC)
Aitkin County Sheriffs Department / Aitkin County Jail	217 2nd Street Northwest	Aitkin	56431	Law Enforcement Facilities
Hill City Police Department	111 West Henrietta Avenue	Hill City	55748	Law Enforcement Facilities
Aitkin Police Department	109 1st Avenue Northwest	Aitkin	56431	Law Enforcement Facilities

Emergency Services

Name	Address	City	Zip	Type
McGregor Police Department	101 East Center	McGregor	55760	Law
	Avenue			Enforcement
	1			Facilities
Minnesota Department of Natural	454 US Highway	Hill City		Fire Stations
Resources Hill City Field Station	169 North			
Minnesota Department of Natural	16082 State	McGrath		Fire Stations
Resources McGrath Field Station	Highway 65			
Minnesota Department of Natural	49928 Lake	McGregor		Fire Stations
Resources Sandy Lake Field Station	Avenue			
Minnesota Department of Natural	1200 Minnesota	Aitkin		Fire Stations
Resources Aitkin Area Office	Avenue South			
Hill City Fire Department	111 Henrietta	Hill City		Fire Stations
	Avenue			
	Southwest			
Jacobson Fire Department	68368 198th	Jacobson		Fire Stations
	Avenue			
McGregor Volunteer Fire Department	101 East Center	McGregor		Fire Stations
Station 1 And Ambulance Service	Avenue			
Aitkin Fire Department	109 1St Avenue	Aitkin		Fire Stations
	Northwest			
McGrath Fire Department	West Main	McGrath		Fire Stations
	Street			
McGregor Volunteer Fire Department	49954 Lake	McGregor		Fire Stations
Station 2	Avenue			
Palisade Volunteer Fire Department	48052 Nature	Palisade		Fire Stations
	Avenue			

Schools & Shelters

Name	Address	City	Zip	Type
McGregor Elementary	148 S 2nd St	McGregor	55760	School
McGregor Area Learning Program	148 S 2nd St	McGregor	55760	School
Aitkin Alternative Learning Program	12 7th St NW	Aitkin	56431	School
Minisinaakwaang Leadership Academy	20930 367th Ln	McGregor	55760	School
McGregor Secondary	148 S 2nd St	McGregor	55760	School
Hill City Middle School	500 Ione Ave	Hill City	55748	School
Aitkin Secondary School	306 2nd St NW	Aitkin	56431	School
Hill City Elementary	500 Ione Ave	Hill City	55748	School
Rippleside Elementary	225 2nd Ave SW	Aitkin	56431	School
Hill City Senior High	500 Ione Ave	Hill City	55748	School
Long Lake Conservation Center	28952 438th Lane	Palisade	56469	Shelter
McGregor Schools (ISD 4)	148 South 2nd Street	McGregor	55760	Shelter
Hill City School	500 Ione Avenue	Hill City	55748	Shelter
Aitkin Public Schools (ISD 1)	306 2nd St NW	Aitkin	56431	Shelter
Bethel Lutheran Church	112 1 Ave SW	Aitkin	56431	Shelter
Aitkin City Hall	109 1st Ave NW	Aitkin	56431	Shelter
Palisade Fire Department and Community Center	48052 Nature Ave	Palisade	56469	Shelter

Schools & Shelters

Name	Address	City	Zip	Type
Palisade City Hall	48052 Nature Avenue	Palisade	56469	Shelter
Aitkin Westside Church	810 2nd St NW	Aitkin	56431	Shelter
Macville Township	34375 605th Lane	Hill City	55748	Shelter
Glory Baptist Church	28053 360th Ave	Aitkin	56431	Shelter
St. James Church	299 Red Oak Drive	Aitkin	56431	Shelter
Rippleside Elementary School	225 2nd Ave SW	Aitkin	56431	Shelter
District II (East Lake) Community Center	36666 State Hwy 65	McGregor	55760	Shelter

Transportation

Name	Address	City	Zip	Type
Aitkin Muni-Steve Kurtz Field	109 1st Ave. NW	Aitkin	56431	Airport
Hill City-Quadna Mountain	125 Lake Ave, Box 160	Hill City	55748	Airport
Isedor Iverson	P.O. Box 100	Mc Gregor	55760	Airport

Utilities

Name	Address	City	Zip	Type
Glen	Great River Energy			Electrical
				Infrastructure
McGregor	Great River Energy			Electrical
				Infrastructure
Round Lake	Great River Energy			Electrical
				Infrastructure
Palisade	Great River Energy			Electrical
				Infrastructure
Spirit Lake	Great River Energy			Electrical
				Infrastructure
Aitkin	Great River Energy			Electrical
1 1				Infrastructure
Kimberly	Great River Energy			Electrical
*******				Infrastructure
Hill City	Great River Energy			Electrical
TT'II O'.	T 1 A	TT'11 O':	0	Infrastructure
Hill City	125 Lake Ave	Hill City	55748	Wastewater
Wastewater				Treatment Plant
Treatment Plant	411. A . NTA7	A 1:1-1 .	-(TAT
Aitkin Wastewater	4th Ave NW	Aitkin	56431	Wastewater
Treatment Plant	(O-1), CI	D.1 1.	-6.60	Treatment Plant
Palisade	30509 480th St	Palisade	56469	Wastewater
Wastewater				Treatment Plant
Treatment Plant Tamarack	16 = Omia Arra	Tamarack	0-	Wastewater
	165 Orvis Ave	Taillarack	55787	Treatment Plant
Wastewater Treatment Plant				Treatment Plant
Treatment Plant				

Utilities

Name	Address	City	Zip	Type
McGregor Wastewater	97 Pond Ln	McGregor	55760	Wastewater Treatment Plant
Treatment Plant				

Hazardous Materials Facilities

Hazardous Materials Facilities have been omitted from this document due to security considerations.

Major Employers

Name	Address	City	Zip
Aitkin County Land Department	502 Minnesota Ave N	Aitkin	56431
Aitkin County Highway Department	1211 Air Park Dr	Aitkin	56431
Aitkin County Health & Human Services	204 1st St NW	Aitkin	56431
Aitkin County Judicial Center	209 2nd St NW	Aitkin	56431
Aitkin County Government Center	307 2nd St NW	Aitkin	56431
Floe International & Hoyt McGregor Payroll	48473 State Highway 65	McGregor	55760
Riverwood Health Care Center	200 Bunker Hill Dr	Aitkin	56431
Aitkin County	307 2nd St NW	Aitkin	56431
Aitkin Public Schools	306 2nd St NW	Aitkin	56431
McGregor Public Schools	148 S 2nd St	McGregor	55760
Aicota Health Care Center	850 2nd St NW	Aitkin	56431
Aitkin Iron Works	301 Bunker Hill Dr	Aitkin	56431
Woodland Container, Inc.			

Appendix J – Mitigation Actions by Jurisdiction

City of Aitkin Mitigation Action Chart

Status Responsibility Comm Timeframe Timeframe The fire per year county's High county's High or system. City EM The fire per year county's high county we will about story severe weather high correspond on severe weather on severe weather high correspond on severe weather high county stations to the fire high county is stations to the fire high county fix public utilities City Admin, City EM City Admin, City EM The city Admin, stations to the fire high county is stations to the fire high county in the city stations to the fire high county is stations to the fire high county fire city and the city fire city stations to the city fire city fire city fire city stations to the city fire	Status Priority Responsibility Timeframe Timeframe Sign-up for the county's Everbridge emergency Notification alert system. Provide education and outreach to residents on personal events and extended power outages. Purchase generators for the fire service and lift stations to events and lift stations to events and extended power outages. Status Priority Responsibility The fire Timeframe Stations to City Admin, City Admin, City Admin, City EM City	Chart	Possible Funding	City	City	City		City
Status Priority Timeframe Existing High Ongoing Existing High City Admin, City Admin, City EM High City EM City EM	Status Mitigation Action Timeframe Friority Timeframe Timeframe Timeframe Existing Ss sign-up for the county's Everbridge emergency notification alert system. Provide education and outreach to residents on personal sp preparedness for severe weather outages. Purchase generators for the fire hall, police dept, public utilities ss garage, and lift stations to Mitigation Action Existing Ongoing City Admin, City EM City Admin, City EM City EM City Admin, City EM City Admin, City EM City Admin, City EM City	Mitigation Action Chart		he fire hall has an open house once er year, and they promote signing p. We can also begin to use our ty website and Facebook page to acourage residents to sign up on the county website.	Ve will work to share information bout severe weather and being repared for it by using our city ebsite and Facebook page. We an help post information we seeive from Aitkin County mergency Management (i.e., uring Severe Weather Awareness feek).	he city will purchase generators as	our budget anows.	We need to identify a designated facility within the city to serve as a storm shelter for those that do not have a basement and address planning for how to notify people it is open in advance of a severe storm event.
Status Priority Timeframe Existing High Ongoing Existing High Ongoing High	Status Mitigation Action Ribertarine Bencourage all city residents to sign-up for the county's Everbridge emergency notification alert system. Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages. Purchase generators for the fire hall, police dept, public utilities sa garage, and lift stations to High High						City Street Dept.	
Mitigation Action Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system. Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages. Purchase generators for the fire hall, police dept, public utilities garage, and lift stations to provide outages and lift stations to be a served of the police dept, public utilities garage, and lift stations to be a served of the public of the police dept.	00 81 82 82 82 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85			Existing High Ongoing	Existing High Ongoing		TBD	
	Mitigation Strategy Education & Awareness Programs Programs Programs Programs Programs Programs Programs		Mitigation Action	Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system.	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	Purchase generators for the fire hall, police dept, public utilities garage, and lift stations to provide emergency backup	power.	power. Designate a storm shelter facility in the city and develop a storm shelter plan.
# Hazard Mitigati Strateg All- Awarene Program Severe Education Winter & Awarene Storms Storms Severe Education Winter & Awarene Program Storms Storms Winter & Awarene Program Storms Storms Severe Education Storms Storms Storms Program Gramer Program Program Program		Ħ	#	-	Ø	က		4

၁	CITY OF AITKIN	ITKIN				Mitigation Action Chart	n Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
9	Wildfire	Local Planning & Regulations	Encourage creation of defensible space for new development that occurs in forested areas.	New Moderate TBD	City Admin, City EM	As new development occurs, we will encourage incorporation of defensible space to reduce wildfire risk.	City

City of Hill City Mitigation Action Chart

CI	TY OF I	CITY OF HILL CITY				Mitigation Action Chart	n Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
H	All- Hazards	Education & Awareness Programs	Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system.	Existing High Ongoing	City Admin, City EM	It has been in our city newsletters and is on our website and Facebook	City
2	Severe Winter & Summer Storms	Education & Awareness Programs	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	Existing High Ongoing	City Admin, City EM	The city has recently increased use of our website and Facebook page to communicate with residents on emergency preparedness.	City
3	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Obtain a portable generator for our City Hall and community center, which is our designated mass care shelter.	New High TBD	City Admin, City EM, City PW	The city will purchase generators as funding allows.	City
4	Severe Summer Storms	Structure & Infrastructure Projects	Upgrade the city's outdoor warning siren.	New High TBD	City Admin, City EM, City PW	We will work to upgrade the warning siren and to have it connected to the county's testing and activation system. We will seek to apply for grant funding to purchase the siren.	City, USDA CF Grant Program
5	Severe Summer Storms	Structure & Infrastructure Projects	Construct a storm shelter or tornado safe room for the Hill City Park & Campground to protect campers from high wind or tornado events.	New High TBD	City Admin, City EM, City PW	We will work with Aitkin County Emergency Management to assess the need for a storm shelter at our municipal campground and identify the best course of action. Additional funding for construction of a facility will be needed (i.e., FEMA HMA).	City, County, FEMA HMA grant
9	Flooding	Structure & Infrastructure Projects	Conduct culvert improvements and ditching to help with water flow during heavy rains.	Existing High Ongoing	City PW	This is an ongoing effort of the city's Public Works department.	City
	Flooding	Education & Awareness Programs	Encourage homeowners to clear leafy and woody debris from roadside gutters to avoid impacting the city's stormwater system during high rain events.	Existing High Ongoing	City Admin, City PW	This is an ongoing effort by the city each spring and fall. It helps to prevent clogging and over the road flooding in these areas.	City

City of McGrath Mitigation Action Chart

CITY OF MCGRATH		RATH				Mitigation Action Chart	Chart
Hazard Mitigation Strategy	Mitigation Strategy		Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
All- Education & Eight Si Awareness Eight Programs number 1		ы. В ю ю ц	Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system.	New High Ongoing	City Admin, City EM	We can seek to encourage residents to more actively sign up for the county's emergency notification system by making announcements at meetings or posting flyers in public areas.	City
Severe Education & to Winter & Awareness pr Programs ev Storms		Pr to ev ev	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	New High Ongoing	City Admin, City EM	We will work to share information we receive from Aitkin County Emergency Management about severe weather and how to be prepared for it by sharing information with residents via flyers or announcements.	City
Severe Mitigation OF Winter & Preparedness the Summer & Response ou Storms Support		Ob the	Obtain a portable generator for the city in the event of a power outage.	New High TBD	City Admin, City EM	We will work with Aitkin County Emergency Management on this.	City
Severe Structure & Co Summer Systems col		S <u>5</u> 5	Construct a storm shelter or tornado safe room for the community.	New High TBD	City Admin, City EM	We will work with Aitkin County Emergency Management to assess the potential for this project, what would be most suitable, and proceed with constructing a shelter as funding allows.	City, Other (TBD)

City of McGregor Mitigation Action Chart

CI	TY OF I	CITY OF MCGREGOR	JR			Mitigation Action Chart	Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
H	All- Hazards	Education & Awareness Programs	Encourage all city residents to sign up for the county's Everbridge emergency notification alert system.	New High Ongoing	City Admin, City EM	We have not done anything with this to date. We do not have a city website or Facebook page, but we can hang up community flyers and make announcements at city council meetings to direct residents to sign up on the Aitkin County website.	City
7	Severe Winter & Summer Storms	Education & Awareness Programs	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	New High Ongoing	City Admin, City EM	Same as above. We can use our city meetings and flyers to share information that we receive from Aitkin County about severe weather and how to be prepared for it.	City
3	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Purchase generators to support critical infrastructure and essential services in the event of a power outage.	New High TBD	City Admin	Backup generators are needed for our water & sewer systems, fire hall, community center, and City Hall. We will purchase generators as funding allows.	City
4	Severe Winter & Summer Storms	Structure & Infrastructure Systems	Replace our current metal frame fire station with a precast concrete structure that will better withstand extreme weather conditions.	New Moderate TBD	City Admin	This is an infrastructure project that the city is budgeting for.	City
5	Severe Summer Storms	Structure & Infrastructure Systems	Replace our current outdoor warning siren and add an additional siren to better cover the city.	New High TBD	City Admin	We will work with Aitkin County Emergency Management on this effort and apply to the USDA Community Facilities grant program for funding to purchase sirens.	City, USDA CF Grant
9	Severe Summer Storms	Structure & Infrastructure Systems	Construct a storm shelter or tornado safe room for the community.	New High TBD	City Admin	The city has had many complaints about not having storm shelters for residents that live in mobile homes so we would like to find funding to construct shelters.	City, FEMA HMA
	Flooding	Structure & Infrastructure Systems	Replace Ditch 5 in order to better handle high-rain events.	New Moderate TBD	City Admin	We will work with Aitkin County on this effort to reduce artificially high water levels.	City, County

ပ	TY OF I	CITY OF MCGREGOR	ıR			Mitigation Action Chart	n Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
8	Flooding	Local Planning & Regulations	Ensure the city has a Floodplain Ordinance in place.	New Moderate 2021-2022	City Admin	We will work with MN DNR Floodplain Manager to create & adopt a FP ordinance as part of our participation in the NFIP.	City
6	Wildfire	Education & Awareness Programs	Educate residents on how to reduce the risk to property from wildfire.	New Moderate Ongoing	City Admin	We will do outreach to residents who live in the wildland-urban interface areas of the city that may be at higher risk to wildfire.	City

City of Palisade Mitigation Action Chart

]	TY OF P	CITY OF PALISADE				Mitigation Action Chart	ı Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
_	All- Hazards	Education & Awareness Programs	Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system.	New High Ongoing	City Admin, City EM	We have not done anything to date but we wish to start soon. We do not have a city website or Facebook page. We can hang up community flyers and make announcements at city council meetings.	City
2	Severe Winter & Summer Storms	Education & Awareness Programs	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	New High Ongoing	City Admin, City EM	Same as above. We can see to share information we receive from Aitkin County Emergency Management about severe weather and how to be prepared for it.	City
3	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Purchase at least two portable generators on wheels and perhaps a permanent one for the fire hall/community center.	New High TBD	City Admin, City EM	The city will purchase generators as funding allows. Additional funding may be needed from a grant source to purchase generators.	City, Other (TBD)
4	Severe Summer Storms	Structure & Infrastructure Systems	Repair or replace the city's outdoor warning siren.	New High TBD	City Admin, City EM	We will work with Aitkin County Emergency Management on this effort and seek funding from the USDA Community Facilities Grant Program if purchasing a new siren.	City, USDA CF Grant
57	Extreme Cold/Heat	Mitigation Preparedness & Response Support	Designate a city facility to serve as a temporary shelter if the power goes out during a period of extreme cold or heat to serve our vulnerable residents.	New High 2021-2022	City Admin, City EM	We will determine what facility may be best (fire hall or community center) and create a plan for how we would provide outreach to residents during a power outage event that necessitated temporary sheltering.	City
9	Flooding	Structure & Infrastructure Systems	Complete city street project to create a catch basis for flood water.	In-Progress High 2021-2026	City Maintenance	Our city street project is in progress over the next several years.	City

City of Tamarack Mitigation Action Chart

CI	TY OF 1	CITY OF TAMARACK	K			Mitigation Action Chart	ı Chart
#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
-	All- Hazards	Education & Awareness Programs	Encourage all city residents to sign-up for the county's Everbridge emergency notification alert system.	Existing High Ongoing	City Admin, TAEP	A link to the county's Everbridge emergency notification system is posted on our city Facebook page. We also make announcements at city council meetings and post information on local bulletin boards as well as in our city newsletter.	City
61	All- Hazards	Mitigation Preparedness & Response Support	Work with Aitkin County Emergency Management to improve our emergency planning for the city.	New High Ongoing	City Admin, TAEP	The Tamarack Area Emergency Planners (TAEP) group will work with Aitkin County Emergency Management on our local planning for things such as communication, evacuation, etc.	City
8	Severe Winter & Summer Storms	Education & Awareness Programs	Provide education and outreach to residents on personal preparedness for severe weather events and extended power outages.	New High Ongoing	City Admin, TAEP	We have a monthly newsletter that goes out to residents and a city Facebook page that we can use to share information.	City
4	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Purchase one or more portable generators for emergency backup power for the city in the event of a power outage.	New High TBD	City Admin, TAEP	We will work with Aitkin County Emergency Management on obtaining portable generators and will purchase them as the city budget allows or additional funding is available.	City
rc	Severe Summer Storms	Structure & Infrastructure Systems	Construct a storm shelter or tornado safe room in a central location for city residents.	New High TBD	City Admin, TAEP	We would like to construct a pavilion with a storm shelter/tornado safe room. This is a project we will seek guidance on from Aitkin County Emergency Management on. Outside grant funding would be needed.	City, FEMA HMA, Other (TBD)
9	Severe Summer Storms	Local Planning & Regulations	Put a policy in place for building specifications for any future mobile homes in the city to ensure they are physically secured for high wind events.	New High TBD	City Admin, TAEP	The city will confer with Aitkin County planning & Zoning on what kind of policy may be best to create.	City





Requested Meeting Date: 11-22-22

Title of Item: Final Contract Payment - Contract No. 20212

REGULAR AGENDA	Action Requested:	Direction Requested
CONSENT AGENDA	Approve/Deny Motion	Discussion Item
INFORMATION ONLY	Adopt Resolution (attach dr	aft) Hold Public Hearing* e copy of hearing notice that was published
Submitted by: John Welle		Department: Highway Department
Presenter (Name and Title): NA		Estimated Time Needed:
amount of \$8,314.63 for Contract No. 2 12 over the Ripple River and SAP 001. The final contract amount of \$1,385,86 was due decreased quantities of steel quantities of common excavation and a Resolution: WHEREAS, Contract No. 20212 has in	20212, which included two bridge repl -598-014 on CH 62 over the Sandy R 63.09 is 7.9% below the bid amount of shell piling needed and revisions in the aggregate base needed. In all been completed, and the County D, That the Aitkin County Board of County	\$1,504,920.84. The decreased final cost ie approach grading that resulted in lower
Alternatives, Options, Effects or	n Others/Comments:	
Recommended Action/Motion: Adopt resolution.		
Financial Impact: Is there a cost associated with this What is the total cost, with tax and Is this budgeted? Yes	•	☐ No lain:

CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA ADOPTED November 22, 20

November 22, 2022

By Commissioner: xxx 20221122-xxx

<u>Final Contract Payment – Contract No. 20212</u>
WHEREAS, Contract No. 20212 has in all been completed, and the County Board being fully advised in the premises.
NOW THEREFORE BE IT RESOLVED, That the Aitkin County Board of Commissioners does hereby accept said completed contract for and on behalf of the County of Aitkin and authorize final payment to S & R Reinforcing Inc. in the amount of \$8,314.63.
Commissioner xxx moved the adoption of the resolution and it was declared adopted upon the following vote
FIVE MEMBERS PRESENT All Members Voting Yes
STATE OF MINNESOTA} COUNTY OF AITKIN}
I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the

Jessica Seibert

Contract Number:

20212

Final Pay Request Number:

10

Project Number	Project Description
	Bridge Replacement over Sandy River-CR 62
SAP 001-598-014	Bridge Replacement over Ripple River on CSAH 12
SAP 001-612-023	

841-9641 Vendor Number: S & R Reinforcing, Inc. Contractor: 10/18/2022 Up To Date: 44216 Tame Fish Lake Road Date Warrant # Aitkin, MN 56431 **Funds Encumbered Contract Amount** \$1,504,920.84 Original \$1,504,920.84 Original Contract N/A Additional \$5,653.18 **Contract Changes** \$1,504,920.84

Total

\$1,510,574.02

Work Certified To Date

Revised Contract

\$1,380,209.91 Base Bid Items \$5,653.18 Contract Changes \$0.00 Material On Hand \$1,385,863.09 Total

Project	Work Certified This Request	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Request	Total Amount Paid To Date \$661,143.42
SAP 001-	(\$2,410.00)	\$661,143.42	\$0.00	\$656,917.89	\$8,314.63	\$001,145.42
598-014 SAP 001-	(\$3,190.00)	\$724,719.67	\$0.00	\$720,630.57		\$724,719.67
612-023						

Work Certified This Request	Work Certified To Date	Less Amount Retained	Payments	Amount Paid This Request	Total Amount Paid To Date \$1,385,863.09
(\$5.600.00)	\$1,385,863.09	\$0.00	\$1,377,548.46	(\$5,600.00)	T
(\$3,000.00)		ercent: Retained: 0%			nt Complete: 91.74 %
		ercent. retained. 676	Amount P	aid this Final Pay F	Request: \$8,314.63

I hereby certify that a Final Examination has been made of the noted Contract, that the Contract has been completed, that the entire amount of Work Shown in this Final Voucher has been performed and the Total Value of the Work Performed in accordance with, and pursuant to, the terms of the Contract is as shown in this Final Voucher.

John Welle - P.E. No. 24340

Kirk Peysar

Date

Aitkin County Highway Engineer

Aitkin County Auditor

S & R Reinforcing, Inc.

Account Number

> Project No.: SAP 001-598-014 Final Pay Request No.: 10

Contract No.: 20212

		Certificate of Final Contract Acceptance Final Voucher Number: 10	
a t		imy knowledge, the items of work shown in the State with the Plans and Specifications. This Project has be used of as they apply to projects in this category, and	if applicable, approved by the
1	Dated 16-18-22	Signature John Will	County/City/Project Engineer
1	he Contract, and agrees that the amount of \$8,314.63 as Final Pa	by certifies that the work described has been perform Final Value of Work Certified on this Contract is \$1.3 ayment on this Contract in accordance with this Final	300,000,000
	Contractor: S & R Reinforcing, In	And	State of MV
	And On This2 Day _ <i></i>	Before me appeared Chins	Stine Strohmayer Towne known
	On This Day <u></u> Double to	Belore me appeared	
	(Individual Acknowledgment)		and the come of
	be the person who executed the	foregoing Acceptance and Acknowledged that he/sh free to act and deed	e executed the same as
	(Corporate Acknowledgment)		
Ch	istine Strohmayer A	and, to me personally know	n, who, being each by me duly
	sworn	Drockdent.	of the
$C \cdot \Delta$	each did say that they are respec		
SAK	Corporatio	n named in the foregoing instrument, and that the se on, and the said instrument was signed and sealed i	n benatia aid Corporation Colors
	authority of its President	on, and the said instrament that significant	My Commission Expires
Chr	istine Stronmayer and	d said and	January 31, 2024
	acknowledged said instrument to	be the free act and deed of said Corporation.	
	Notarial My Commission as Nota	ary Public inCounty	7 /
	Seal Expires 1-31-20	Signature // Ma Have	asin
	I hereby certify that a Final Exar the entire amount of Work Show accordance with, the terms of the	mination has been made of the noted Contract, that the contract in this Final Voucher has been performed and the see Contract is as shown in this Final Voucher.	he Contract has been completed, that Total Value of the Work Performed in
	This Contract is hereby accepte effective upon full Execution, by the Final Voucher.	d in accordance with the Specification 1516. Final action the Contractor and the Department, of the "Certifica	cceptance of the Contract will be te of Final Acceptance" included with
	Dated	Signature	District Engineer

> Aitkin County Highway Department 1211 Air Park Drive Aitkin, MN 56431

> > Contract No: 20212 Final Pay Request No. 10

Aitkin County Highway Department Certificate of Final Acceptance Board Acknowledgment

Contract Number: 20212

Contractor: S & R Reinforcing, Inc.

Date Certified: 10/18/2022 Payment Number: 10

Whereas; Contract No. 20212 has in all things been completed, and the County Board being fully advised in the premises, now then be it resolved; that we do hereby accept said completed project for and in behalf of Aitkin County Highway Department and authorize final payment as specified herein.

State of				
I,resolution is a true and correct c	, Aitkin County Auditor, wood on the resolution on f	vithin and for said co ile in my office.	ounty do hereby cert	ify that the foregoing
Dated this day of	, 20			
AtSigned By				
Aitkin County Auditor				
(SEAL)				

Contract Payment Su	ımmary	Work Certified	Amount Retained	Amount Paid
Payment Number	Up To Date	Per Request	Per Request	Per Request
	0004.00.00	\$202,174.51	\$10,108.73	\$192,065.78
1	2021-06-20	\$300,290.96	\$15,014.54	\$285,276.42
2	2021-07-18		\$12,257.25	\$232,887.65
3	2021-08-10	\$245,144.90	\$10,475.11	\$199,027.16
4	2021-08-29	\$209,502.27		\$125,857.31
5	2021-09-19	\$132,481.38	\$6,624.07	\$198,301.55
	2021-10-10	\$208,738.47	\$10,436.92	
6		\$91,730.60	\$4,586.53	\$87,144.07
7	2021-11-01	\$0.00	(\$55,602.52)	\$55,602.52
8	2021-12-21		\$14.00	\$1,386.00
9	2022-08-29	\$1,400.00		\$8,314.63
10	2022-10-18	(\$5,600.00)	(\$13,914.63)	φο,στσ

Contract Funding Funding Category Name	Funding Category	Work Certified to Date	Less Amount Retained	Less Previous Payments	Amount Paid this Request	Total Amount Paid to Date
	Number	2121 112 22	\$0.00	\$120,197.88	\$1,214.12	\$121,412.00
SAP 001-598- 014	2	\$121,412.00	φυ.υυ	\$120,101.00	* 1,=	
Nonparticipating		7700 704 40	\$0.00	\$536,720.01	\$3,011.41	\$539,731.42
SAP 001-598- 014	1	\$539,731.42	φυ.υυ	ψ300,720.01	7-7-	
Participating	2	\$101,214.65	\$0.00	\$100,202.50	\$1,012.15	\$101,214.65
SAP 001-612- 023	2	ψ 101,211.00				
Nonparticipating SAP 001-612-	1	\$623,505.02	\$0.00	\$620,428.07	\$3,076.95	\$623,505.02
023 Participating						

Contract Funding Accounting Number	g Source Summary Funding Source Name	Amount Paid this Request	Revised Contract Amount	Funds Encumbered to Date	Paid Contractor to Date
001	State Bridge	\$3,011.41	\$546,417.74	\$546,417.74	\$539,731.42
001	Funds State Bridge	\$3,271.56	\$327,155.68	\$327,155.68	\$327,155.68
002	Funds Local Regular (CSAH)	\$1,214.12 \$817.54	\$188,173.53 \$448,827.07	\$181,810.65 \$449,536.77	\$121,412.00 \$397,563.99

Project Payment Si Project	Payment	Up To Date	Work Certified Per Request	Amount Retained Per Request	Amount Paid Per Request
SAP 001-598-014	Number 1	2021-06-20	\$2,500.00 \$7,461.25	\$125.00 \$373.06	AT 000 40
SAP 001-598-014 SAP 001-598-014	3	2021-07-18 2021-08-10	\$18,144.75	\$907.24	0.47.007.54

		0004.00.00	\$203,747.27	\$10,187.36	\$193,559.91
SAP 001-598-014	4	2021-08-29		\$6,624.07	\$125,857.31
SAP 001-598-014	5	2021-09-19	\$132,481.38	\$10,312.91	\$195,945.26
SAP 001-598-014	6	2021-10-10	\$206,258.17	\$4,578.03	\$86,982.57
SAP 001-598-014	7	2021-11-01	\$91,560.60		\$26,486.14
SAP 001-598-014	8	2021-12-21	\$0.00	(\$26,486.14)	\$1,386.00
SAP 001-598-014	9	2022-08-29	\$1,400.00	\$14.00	
	10	2022-10-18	(\$2,410.00)	(\$6,635.53)	\$4,225.53
SAP 001-598-014	10	2021-06-20	\$199,674.51	\$9,983.73	\$189,690.78
SAP 001-612-023	-	2021-00-20	\$292,829.71	\$14,641.48	\$278,188.23
SAP 001-612-023	2		\$227,000.15	\$11,350.01	\$215,650.14
SAP 001-612-023	3	2021-08-10		\$287.75	\$5,467.25
SAP 001-612-023	4	2021-08-29	\$5,755.00	\$0.00	\$0.00
SAP 001-612-023	5	2021-09-19	\$0.00		\$2,356.29
SAP 001-612-023	6	2021-10-10	\$2,480.30	\$124.01	\$161.50
SAP 001-612-023	7	2021-11-01	\$170.00	\$8.50	
SAP 001-612-023	8	2021-12-21	\$0.00	(\$29,116.38)	\$29,116.38
		2022-08-29	\$0.00	\$0.00	\$0.00
SAP 001-612-023	9	2022-00-23	(\$3,190.00)	(\$7,279.10)	\$4,089.10
SAP 001-612-023	10	2022-10-10	(ψο, 100.00)	\	

Project	Category Summary Funding Category Name	Work Certified to Date	Less Amount Retained	Less Previous Payments	Amount Paid this Request	Total Amount Paid to Date
SAP 001-598- 014	SAP 001-598- 014	\$121,412.00	\$0.00	\$120,197.88	\$1,214.12	\$121,412.00
SAP 001-598-	Nonparticipating SAP 001-598-	\$539,731.42	\$0.00	\$536,720.01	\$3,011.41	\$539,731.42
014 SAP 001-612-	014 Participating SAP 001-612-	\$101,214.65	\$0.00	\$100,202.50	\$1,012.15	\$101,214.65
023	023 Nonparticipating		ED 00	\$620,428,07	\$3,076,95	\$623,505.02
SAP 001-612- 023	SAP 001-612- 023 Participating	\$623,505.02	\$0.00	\$620,428.07	\$3,076.95	\$623,505

Project Funding So Project	urce Summary Funding Source Name	Amount Paid this Request	Revised Contract Amount	Funds Encumbered to Date	Paid Contractor to Date
	004	\$3,011.41	\$546,417.74	\$546,417.74	\$539,731.42
SAP 001-598-014	001	\$1,214.12	\$188,173.53	\$181,810.65	\$121,412.00
SAP 001-598-014	002	\$3,271.56	\$327,155.68	\$327,155.68	\$327,155.68
SAP 001-612-023	001	\$817.54	\$448,827.07	\$449,536.77	\$397,563.99
SAP 001-612-023	002	\$017.54	\$1.10,02.113		

Project	Line	Item	Description	Units	Unit Price	Contract Quantity	Quantity This Request	Amount This Request	Quantity To Date	Amount To Date
SAP 001- 598-014	1	2021.501	MOBILIZATION	LS	\$36,250.00	1	0	\$0.00	1	\$36,250.00
SAP 001- 598-014	2	2401.507	STRUCTURAL CONCRETE (3B52)	CY	\$956.28	84	0	\$0.00	84	\$80,327.52
SAP 001- 598-014	3	2401.508	REINFORCEMENT BARS (EPOXY COATED)	LB	\$1.11	43110	0	\$0.00	43110	\$47,852.1
SAP 001- 598-014	4	2401.601	SLOPE PREPARATION	LS	\$3,000.00	1	0	\$0.00	1	\$3,000.0

ontract Ite	Line		Description	Units	Unit Price	Contract Quantity	Quantity This Request	Amount This Request		Amount To Date
AP 001-	5	2401.601	STRUCTURE EXCAVATION	LS	\$19,641.00	1	0	\$0.00	1	\$19,641.00
98-014	6	2401 618	BRIDGE SLAB CONCRETE	SF	\$42.71	3094	0	\$0.00	3094	\$132,144.74
AP 001- 18-014	О		(3YHPC-M)				0	\$0.00	184	\$49,711.28
AP 001- 18-014	7	2402.503	STRUCTURAL TUBE RAILING DESIGN SPECIAL	LF	\$270.17	184		\$0.00		
AP 001-	8	2402.508	STRUCTURAL STEEL (3306)	LB	\$5.00	530	0	\$0.00	530	\$2,650.00
98-014 AP 001-	9	2452.502	C-I-P CONC TEST PILE 90	EACH	\$9,050.00	2	0	\$0.00	2	\$18,100.00
98-014 AP 001-	10	2452.502	FT LONG 12" C-I-P CONC TEST PILE 110	EACH	\$20,500.00	2	0	\$0.00	2	\$41,000.00
98-014			FT LONG 16"	EACH	\$235.40	8	0	\$0.00	8	\$1,883.20
AP 001- 98-014	11	2452.502	PILE POINTS 12"	EACI	Ψ20010			\$0.00	10	\$3,402.60
AP 001- 98-014	12	2452.502	PILE POINTS 16"	EACH	\$340.26	10	0	\$0.00		
AP 001- 98-014	13	2452.603	3 C-I-P CONCRETE PILING	LF	\$37.66	480	C	\$0.00	417.6	\$15,726.82
AP 001-	14	2452.603	3 C-I-P CONCRETE PILING	LF	\$53.77	800	C	\$0.00	714	\$38,391.78
98-014 SAP 001-	15	2502.50	1 DRAINAGE SYSTEM TYPE	LS	\$1,000.00	1	(\$0.00	1	\$1,000.00
98-014			(B910) 4 GEOTEXTILE FILTER TYPE		\$3.00	600) (\$0.00) 497	\$1,491.00
SAP 001- 598-014	16		7					3 \$0.00	231.4	\$13,884.00
SAP 001- 598-014	17	2511.50	7 RANDOM RIPRAP CLASS I	II C Y	\$60.00	300		\$0.00		
SAP 001- 598-014	18	2554.50	12 END TREATMENT- TANGENT TERMINAL	EAC	H \$2,650.00	2	1	0 \$0.00) 4	\$10,600.00
SAP 001- 598-014	19	2554.50	3 TRAFFIC BARRIER DESIG	NLF	\$21.50) 22	5	0 \$0.00	225	\$4,837.50
SAP 001-	20	2554.50	TRAFFIC BARRIER DESIG	NLF	\$111.25	5 10	0	0 \$0.00	0 100	\$11,125.00
598-014 SAP 001-	21	2563.60	01 TRAFFIC CONTROL	LS	\$2,000.00)	1	0 \$0.0	0	\$2,000.00
598-014 SAP 001-	22	2101.50	01 CLEARING & GRUBBING	LS	\$2,500.00	0	1	0 \$0.0	0	1 \$2,500.00
598-014 SAP 001-	23	2104 5	03 SAWING BIT PAVEMENT	LF	\$5.0	0 5	6	0 \$0.0	00	0 \$0.00
598-014			(FULL DEPTH)	0.11	\$5.0	0 165	60	0 \$0.0	00 165	0 \$8,250.0
SAP 001- 598-014	24	2104.5	04 REMOVE BITUMINOUS PAVEMENT	SY	φ5.0					3 \$1,989.0
SAP 001- 598-014	25	2105.5	07 COMMON EXCAVATION (P) C Y	\$13.0	0 124	19	0 \$0.0	00 15	\$1,509.0

ontract Ite	Line		Description	Units	Unit Price	Contract Quantity	Quantity This Request	Amount This Request		Amount To Date
				CY	\$25.00	578	0	\$0.00	0	\$0.00
AP 001- 8-014	26	2105.507	SELECT GRANULAR BORROW (CV) (P)	C 1	Ψ20.00			40.00	229.1	\$12,545.50
AP 001-	27	2211.507	AGGREGATE BASE (CV) CLASS 5 (P)	CY	\$55.00	877	0	\$0.00	228.1	
8-014				CY	\$75.00	25	0	\$0.00	46.31	\$3,473.25
AP 001- 98-014	28	2221.507	SHOULDER BASE AGGREGATE (CV) CLASS (P)	1-	Ψ/ 0.00				140.03	\$49,393.30
AP 001- 98-014	29	2360.509	TYPE SP 9.5 NON WEAR COURSE MIX (2,B)	TON	\$110.00	435	0	\$0.00	449.03	
AP 001- 98-014	30	2442.501	REMOVE EXISTING BRIDG	GELS	\$24,193.00	1	0		1	\$24,193.00
AP 001- 98-014	31	2573.503	SILT FENCE, TYPE MS	LF	\$2.50	1314	0	\$0.00	790	\$1,975.00
AP 001- 98-014	32	2573.503	FLOTATION SILT CURTAIN	N L F	\$19.95	260	0	\$0.00	275	\$5,486.25
SAP 001-	33	2575.50	1 TURF ESTABLISHMENT	LS	\$2,800.00	1	C	\$0.00		\$2,800.00
SAP 001-	34	2575.50	5 RAPID STABILIZATION METHOD 1	ACRI	E \$1,500.00	0.42	2 (\$0.00		\$0.00
SAP 001- 598-014	35	2575.60	4 ROLLED EROSION PREVENTION CATEGOR	S Y	\$2.95	2047	7	\$0.00	2426	\$7,156.70
SAP 001-	1	2101.50	11 CLEARING & GRUBBING	LS	\$2,500.00)	1	0 \$0.00) 1	
SAP 001- 612-023	2	2104.50	3 SAWING BIT PAVEMENT (FULL DEPTH)	LF	\$5.00) 6	1	0 \$0.00	61	
SAP 001-	3	2104.50	3 REMOVE PIPE CULVERT	rs LF	\$20.00	0 3	3	0 \$0.00	0 0	\$0.00
612-023 SAP 001-	4	2104.5	04 REMOVE BITUMINOUS	SY	\$5.0	0 191	4	0 \$0.0	0 1945	\$9,725.00
612-023 SAP 001-	5	2105.5	PAVEMENT 07 COMMON EXCAVATION	(P) C Y	\$15.0	0 10	06	0 \$0.0	0 100	5 \$1,590.00
612-023	6		07 COMMON BORROW (LV			10 12	24	0 \$0.0	00	0 \$0.00
SAP 001- 612-023	Ю		07 AGGREGATE SURFACII		\$75.0	00	17	0 \$0.0	00	0 \$0.00
SAP 001- 612-023	7		(CV) CLASS 1 (P)				89	0 \$0.0	00 3	8 \$1,900.0
SAP 001- 612-023	8		607 AGGREGATE BASE (CV CLASS 5 (P)					0 \$0.0	00 2	24 \$1,800.0
SAP 001- 612-023	9	2221.	507 SHOULDER BASE AGGREGATE (CV) CLA (P)	SS 1	7 \$75.0	00	59			
SAP 001- 612-023	- 10) 2357.	506 BITUMINOUS MATERIA FOR TACK COAT	L GA	\L \$5.0	00	93	0 \$0.	00 14	\$710.0

roject	Line	Item	Description	Units		Contract Quantity	Quantity This Request	Amount This Request		Amount To Date
AP 001-	11	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$100.00	574	0	\$0.00	418.39	\$41,839.00
12-023 AP 001-	12		REMOVE EXISTING BRIDGE	LS	\$17,421.00	1	0	\$0.00	1	\$17,421.00
12-023	-				#2.50	1120	0	\$0.00	780	\$1,950.00
AP 001- 12-023	13	2573.503	SILT FENCE, TYPE MS	LF	\$2.50	1120		·		05.005.00
AP 001- 12-023	14	2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LF	\$19.95	240	0	\$0.00	300	\$5,985.00
AP 001-	15	2574.507	COMMON TOPSOIL BORROW	CY	\$50.00	24	0	\$0.00	66	\$3,300.00
12-023 SAP 001-	16	2575.501	TURF ESTABLISHMENT	LS	\$2,800.00	1	0	\$0.00	1	\$2,800.00
12-023	17	2575 504	EROSION CONTROL	SY	\$2.95	2338	0	\$0.00	2093	\$6,174.35
SAP 001- 12-023	17		BLANKETS CATEGORY 3N	1000	\$1,500.00	0.49	0	\$0.00	0.49	\$735.00
SAP 001- S12-023	18	2575.505	RAPID STABILIZATION METHOD 1	ACRE	\$1,500.00				1	\$42,000.00
SAP 001- S12-023	19	2021.50	MOBILIZATION	LS	\$42,000.00	1	0	\$0.00	1	,
SAP 001- 612-023	20	2401.50	7 STRUCTURAL CONCRETE (3B52) (P)	CY	\$761.00	99	C	\$0.00	99	\$75,339.00
SAP 001-	21	2401.50	8 REINFORCEMENT BARS (EPOXY COATED) (P)	LB	\$1.10	52050	0	\$0.00	52096	\$57,305.60
612-023 SAP 001-	22	2401.50	8 REINFORCEMENT BARS (STAINLESS-75KSI) (P)	LB	\$4.50	740		\$0.00	740	\$3,330.00
612-023 SAP 001-	23	2401.60	1 STRUCTURE EXCAVATION	l LS	\$39,437.00	1	(\$0.00) 1	\$39,437.00
612-023		0.404.00	1 SLOPE PREPARATION	LS	\$5,000.00	1		0 \$0.00) 1	\$5,000.00
SAP 001- 612-023	24						,	0 \$0.00	3187	\$142,777.60
SAP 001- 612-023	25	2401.61	8 BRIDGE SLAB CONCRETE (3YHPC-M) (P)	SF	\$44.80	3187				
SAP 001- 612-023	26	2402.50	3 STRUCTURAL TUBE RAILING DESIGN SPECIAL (P)	LF	\$280.87	170	0	0 \$0.00		
SAP 001- 612-023	27	2406.50	DESIGN E8H (P)	LF	\$136.20	7.	2	0 \$0.0		0 \$0.00
SAP 001- 612-023	28	2406.5	04 BRIDGE APPROACH PANELS (P)	SY	\$252.85	5 29	3	0 \$0.0	0 29	
SAP 001- 612-023	29	2452.5	02 C-I-P CONC TEST PILE 70 FT LONG 12"	EAC	H \$8,500.00)	2	0 \$0.0	0	2 \$17,000.0
SAP 001- 612-023	30	2452.5	02 C-I-P CONC TEST PILE 70 FT LONG 16"	EAC	H \$13,000.00)	2	0 \$0.0	00	2 \$26,000.0
SAP 001- 612-023	31	2452.5	02 PILE POINTS 12"	EAC	H \$235.4	0 1	0	0 \$0.0	00 1	0 \$2,354.0

Contract It	Line		Description	Units		Contract Quantity	Quantity This Request	Amount This Request		Amount To Date
				EAGL	\$340.26	10	0	\$0.00	10	\$3,402.60
SAP 001- 512-023	32	2452.502	PILE POINTS 16"	EACH	\$340.20	10			100.0	\$14,827.27
SAP 001-	33	2452.603	C-I-P CONCRETE PILING 12"	LF	\$34.41	480	0	\$0.00	430.9	\$14,027.27
SAP 001-	34	2452.603	C-I-P CONCRETE PILING	LF	\$53.00	480	0	\$0.00	438	\$23,214.00
612-023			16"	LS	\$1,000.00	1	0	\$0.00	1	\$1,000.00
SAP 001- 612-023	35	2502.501	DRAINAGE SYSTEM TYPE (B910)	LS	ψ1,000.00					\$1,875.00
SAP 001- 612-023	36	2511.504	GEOTEXTILE FILTER TYPE 7	SY	\$3.00	940	0	\$0.00	625	
SAP 001-	37	2511.507	RANDOM RIPRAP CLASS III	CY	\$65.00	500	0	\$0.00	300	\$19,500.00
612-023					20.050.00	4	0	\$0.00	4	\$10,600.00
SAP 001- 612-023	38	2554.502	END TREATMENT- TANGENT TERMINAL	EACH	\$2,650.00	4		, , ,		
SAP 001- 612-023	39	2554.503	TRAFFIC BARRIER DESIGN TYPE 31	LF	\$21.50	250	0	\$0.00	250	\$5,375.00
SAP 001- 612-023	40	2554.503	TRAFFIC BARRIER DESIGN TRANS TYPE 31	LF	\$111.25	100	0	\$0.00	100	\$11,125.00
	41	2563 60	1 TRAFFIC CONTROL	LS	\$3,400.00	1	0	\$0.00	1	\$3,400.00
SAP 001- 612-023	41	2505.00						00.00		\$1,380,209.9
Base Bid	Total	e.						\$0.00		φ1,300,203.3

Project Category Totals		Amount This Request	Amount To Date
Project	Category	\$0.00	\$535,018.54
SAP 001-598-014	PARTICIPATING	\$0.00	\$119,762.00
SAP 001-598-014	NONPARTICIPATING	\$0.00	\$626,695.02
SAP 001-612-023	Participating	\$0.00	\$98,734.35
SAP 001-612-023	Non-Participating	\$0.00	

			tem Status	Unit Price	Contract	Contract	New Item	Quantity	Amount This		
Project	cc	Line	Item	Office Free	Quantity		or Adj to Existing	This	Request	To date	date
				\$2,480.30	1	\$2,480.30	ITM	0	\$0.00	1	\$2,480.3
SAP 001- S12-023	CO1	42	2123.601 MISC. FORCE ACCOUNT WORK (LUMP SUM)	I' '		\$2,400.00					
SAP 001-	CO2	36	2401.508 REINFORCEMENT BARS (EPOXY COATED) (LB)	\$1.11	4772	\$5,296.92	ITM	0	\$0.00	4772	\$5,296.9
SAP 001- 598-014	CO2	1	2401.601 REINFORCEMENT BAR MATERIAL COST (LS)	\$1,825.96	1	\$1,825.96	ITM	0	\$0.00	1	\$1,825.9

Contract	Chan	ge -	rotals:						(\$5,600.00)		φ3,033.10
SAP 001- 612-023	CO5	43	PENALTY (LS)	(ψ3, 190.00)		(, , , , , , , , , , , , , , , , , , ,			(\$5,600,00)		\$5,653.18
598-014			PENALTY (LS) 2401.601 CONCRETE FAILURE	(\$3.190.00)	1	(\$3,190.00)	ITM	1	(\$3,190.00)	1	(\$3,190.00)
SAP 001-	CO5		2401.601 CONCRETE FAILURE	(\$2,410.00)	1	(\$2,410.00)	ITM	1	(\$2,410.00)	1	(\$2,410.00)
SAP 001- 598-014	CO4		2582.601 PERMANENT PAVEMENT MARKINGS (LS)	\$1,650.00	1	\$1,650.00	ITM	0	\$0.00	1	\$1,650.00

	hange Totals	Effective Date	Amount
lumber	Description During common excavation operations, the contractor was directed to shape the area from approximately Sta. 17+00 RT to approximately Sta. 19+50 RT to allow access from the road and parking for vehicles behind the guardrail. The contractor agreed to perform the work on a force account basis. The contractor incurred \$2,480.30 in force account costs while completing	08/27/2021	\$2,480.30
	Summary of Daily Force Account form are in the inspection file for	40/00/2021	\$7,122.88
2	Plan errors missed 4 each of bars A514E to A517E and 8 each of bar A707E in the "Bill of Reinforcement - 2 Abutments" tab box for a total additional quantity of 687 LBS in the Summary of Quantities on Sheet 6 of the plan. Another plan error missed 36 each of bar S808E in the "Bill of	10/06/2021	\$7,122.00
	Reinforcement - Superstructure" tab box for a total additional quantity of 4085 LBS in the Summary of Quantities on Sheet 11 of the plan. The plan quantity for item 2401.508 Reinforcement Bars (Epoxy Coated)		
	will be changed to 47,882 LBS, an increase of 4772 LBS. The contractor incurred extra costs to get the required materials to the		
	construction site. The additional 96 LBS of #3 bals were provided out of the contractor's stock at no additional cost. The 591 LBS of #7 bars were able to be provided at the original material unit price but there were additional freight charges since the plan error was discovered after the plan quantities were delivered to the site. The extra freight charges came to \$587.81, including tax. The plan error requiring 4085 LBS of #8 bars was discovered after material prices had risen \$0.10 per LB. There was also an additional freight charge of \$750.00. The total additional material costs for the #8 bars, including material costs, freight, and tax, is \$1238.15.		
	The total additional reinforcement material cost due to the plan errors is \$1825.96. The material invoices are in the inspection file for documentation.		#4 CED 0
4	Permanent pavement marking was not included in the original construction plan so the engineer directed the contractor to arrange for permanent pavement markings to be applied to the new bituminous surface. Approximate quantities of markings include 1250 LF of white Solid Line Paint, 400 LF of yellow Solid Line Paint, and 120 LF of yellow Broken Line Paint.	10/20/2021	\$1,650.00
	The contractor agreed to perform the necessary pavement marking for the lump sum amount of \$1650.00. After the first freeze/thaw cycle both the CSAH 12 bridge and the CR 62	09/29/2022	2 (\$3,190.00
5	bridge exhibited shallow mortar flaking/scaling on the top surface of the concrete bridge decks. One core was cut from each bridge deck and submitted for petrographic analysis. The conclusion from the analysis is that the surface paste was compromised due to early-age drying and		

	improper curing. Since the compromised concrete on the cores was limited to the top 2 mm of depth, and as per MnDOT Standard Specification 1512.1, the concrete was allowed to remain in place with a penalty equal to the estimated cost of a sealant application to both bridge decks and the CSAH 12 approach panels by county forces in the future. The penalty for the SAP 001-612-023 project is \$3,190.00 and the penalty for the SAP 001-598-014 project is \$2,410.00. The Report of Petrographic Analysis is in the construction file for documentation.		(\$2,410,00)
5	After the first freeze/thaw cycle both the CSAH 12 bridge and the CR 62 bridge exhibited shallow mortar flaking/scaling on the top surface of the concrete bridge decks. One core was cut from each bridge deck and submitted for petrographic analysis. The conclusion from the analysis is that the surface paste was compromised due to early-age drying and improper curing. Since the compromised concrete on the cores was limited to the top 2 mm of depth, and as per MnDOT Standard Specification 1512.1, the concrete was allowed to remain in place with a penalty equal to the estimated cost of a sealant application to both bridge decks and the CSAH 12 approach panels by county forces in the future. The penalty for the SAP 001-612-023 project is \$3,190.00 and the penalty for the SAP 001-598-014 project is \$2,410.00. The Report of Petrographic Analysis is in the construction file for documentation.	09/29/2022	(\$2,410.00)

Mater	ial On Hand A	dditions			
Line	Item	Description	Date	Added	Comments
Line	Item	Becomparen			

Materi	al On Hand Ba	lance				Demaining
	Item	Description	Date	Added	Used	Remaining
Line	item	Description				

Contract Total	\$1,385,863.09	





Requested Meeting Date: November 22, 2022

Title of Item: Application for Grant-in-Aid ATV trail maintenance funds

REGULAR AGENDA	Action Requested:		Direction Requested		
✓ CONSENT AGENDA	Approve/Deny Motion		Discussion Item		
INFORMATION ONLY	Adopt Resolution (attach dra *provide		Hold Public Hearing* ing notice that was published		
Submitted by: DJ Thompson		Departmer Land	nt:		
Presenter (Name and Title): DJ Thompson, Land Commissioner	· ·				
Summary of Issue:		<u>'</u>			
The attached resolution is required to apply for the 2023 State Grant-in-Aid (GIA) maintenance funds for the Northwoods Regional ATV trail system.					
Alternatives, Options, Effects or	n Others/Comments:				
Recommended Action/Motion: Approval of attached resolution					
Financial Impact: Is there a cost associated with this What is the total cost, with tax and Is this budgeted? Yes	· —	☐ No ain:			

CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA

ADOPTED

November 22, 2022

By Commissioner: xxx 20221122-xxx

2023 - ALL TERRAIN VEHICLE TRAIL FUNDING

WHEREAS, Local units of government can apply for State aide for trail development, maintenance, grooming and administration from the Minnesota Department of Natural Resources at the rate of 90% reimbursement of costs of grooming and maintenance, and

WHEREAS, Aitkin County does not have the facilities to maintain the entire trail system in Aitkin County, and

WHEREAS, Clubs wish to contract with the County for maintaining these trails, and

WHEREAS, These trails benefit the recreation, resort, tourism, industry, and economy of Aitkin County,

NOW THEREFORE, BE IT RESOLVED, That the Aitkin County Trail Administrator be authorized to apply for Grants-in-Aid assistance funds for All Terrain Vehicle Trail maintenance and grooming for the following trail:

Northwoods Regional ATV trail which consists of the following segments: South Soo Line, North Soo Line, Axtell ATV technical riding area, Rabey Line, Blind Lake, Redtop, Moose River Connector, Lawler, Blind Lake Connector Trail, Rat Lake Connector Trail, Hill City Connector Trail and Solana ATV Trails.

BE IT FURTHER RESOLVED, That the Aitkin County Trail Administrator be authorized to contract for the development, maintenance and grooming of the aforementioned trails with qualified, interested clubs.

Commissioner xxx moved the adoption of the resolution and it was declared adopted upon the following vote

FIVE MEMBERS PRESENT

All Members Voting Yes

STATE OF MINNESOTA) COUNTY OF AITKIN)

I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the 22nd day of November 2022, and that the same is a true and correct copy of the whole thereof.

Witness my hand and seal this 22^{nd} day of November 2022

Landina Onlinant		
Jessica Seibert		



Title of Item: Off Sale Liquor License - Imperial Operating MN LLCC, Kings Mart 45



Requested Meeting Date: November 22, 2022

Action Requested: Direction Requested **REGULAR AGENDA** Approve/Deny Motion Discussion Item CONSENT AGENDA Adopt Resolution (attach draft) Hold Public Hearing* INFORMATION ONLY *provide copy of hearing notice that was published Submitted by: **Department:** Kathleen Ryan Auditor **Estimated Time Needed:** Presenter (Name and Title): **Summary of Issue:** The Aitkin County Board of Commissioners agrees to approve the following liquor license for a period from December 1, 2022, thru December 31, 2022: "OFF" Sale: Imperial Operating MN LLC DBA Kings Mart #45- Hazelton Township This establishment has an address of 22852 State Highway 169, Aitkin, MN 56431 **Alternatives, Options, Effects on Others/Comments: Recommended Action/Motion:** Adopt attached resolution for off sale liquor license **Financial Impact:** Yes No Is there a cost associated with this request? What is the total cost, with tax and shipping? \$ Is this budgeted? Yes No Please Explain:

CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA

ADOPTED

November 22, 2022

By Commissioner: xxx 20221122-xxx

Off Sale Liquor License - Imperial Operating MN LLC DBA Kings Mart #45

BE IT RESOLVED , The Aitkin County Board of Commissioners agrees to approve the following liquor license for a period from December 1, 2022, thru December 31, 2022:
"OFF" Sale:
Imperial Operating MN LLC DBA Kings Mart #45– Hazelton Township This establishment has an address of 22852 State Highway 169, Aitkin, MN 56431

Commissioner xxx moved the adoption of the resolution and it was declared adopted upon the following vote

FIVE MEMBERS PRESENT

All Members Voting Yes

STATE OF MINNESOTA) COUNTY OF AITKIN)

I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the <u>22nd day</u> of <u>November 2022</u>, and that the same is a true and correct copy of the whole thereof.

Jessica Seibert

Witness my hand and seal this 22nd day of November 2022



Agenda Item #

Requested Meeting Date: 11/22/2022

Title of Item: Committee for the Awareness & Prevention of Suicide (CAPS) Donations					
REGULAR AGENDA	Action Requested:		Direction Requested		
CONSENT AGENDA	Approve/Deny Motion		Discussion Item		
INFORMATION ONLY	✓ Adopt Resolution (attach dra *provide*		Hold Public Hearing* aring notice that was published		
Submitted by: Cynthia Bennett		Departm HHS	ent:		
Presenter (Name and Title): Cynthia Bennett			Estimated Time Needed:		
Summary of Issue:					
The Aitkin County Committee for the Accontinuing mental health and suicide pevents. Next community event is antic	prevention messaging and training thro				
The following organizations have pled	ged their financial support and submitt	ed donatior	ns for this purpose:		
Aitkin Women of Today - \$50.00 Over the Hills ATV Club - \$350.00					
Alternatives, Options, Effects on Others/Comments:					
7 mornauros, opnieno, 2000 e.					
Recommended Action/Motion: Recommend accepting donation					
Financial Impact: Is there a cost associated with this What is the total cost, with tax and Is this budgeted? Yes	<u> </u>	ain:	Vo		

CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA

ADOPTED

November 22, 2022

By Commissioner: xxx 20221122-xxx

Committee for the Awareness & Prevention of Suicide (CAPS) Donations

WHEREAS, Aitkin County is generally authorized to accept donations of real and personal property with a 2/3 majority vote pursuant to Minnesota Statutes Section 465.03 for the benefit of its citizens.

WHEREAS, the following persons and entities have offered to contribute the cash amounts set forth below to the county:

Name of Donor
Aitkin Women of Today

Over the Hills ATV Club

\$ 50.00
\$ 350.00

WHEREAS, the terms or conditions of the donations, if any, are as follows:

Name of Donor
Aitkin Women of Today
Over the Hills ATV Club

Terms or Conditions

\$400.00 to the Committee for the Awareness & Prevention of Suicide (CAPS) group for continuing mental health and suicide prevention messaging and training throughout Aitkin County utilizing community events. Next community event is anticipated by summer 2023.

WHEREAS, all such donations have been contributed to the county for the benefit of its citizens, as allowed by law.

NOW THEREFORE BE IT RESOLVED, the Aitkin County Board of Commissioners finds that it is appropriate to accept the donations offered.

Commissioner xxx moved the adoption of the resolution and it was declared adopted upon the following vote

FIVE MEMBERS PRESENT

All Members Voting Yes

STATE OF MINNESOTA) COUNTY OF AITKIN)

I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the 22th day of November 2022, and that the same is a true and correct copy of the whole thereof.

Witness my hand and seal this 22^{th} day of November 2022

Jessica Seibert	
County Administrator	





Requested Meeting Date: 11-22-22

Title of Item: Final Overview of CH 3 (former TH 232) Costs

✓ REGULAR AGENDA	Action Requested:	Direction Requested				
CONSENT AGENDA	Approve/Deny Motion	✓ Discussion Item				
INFORMATION ONLY	Adopt Resolution (attach dra *provide	aft) Hold Public Hearing* e copy of hearing notice that was published				
Submitted by: John Welle	· · · · · · · · · · · · · · · · · · ·					
Presenter (Name and Title): John Welle, Aitkin County Engineer	·					
Summary of Issue: The Board in the past requested a final summary of all costs related to projects on CH 3 to reconstruct 9 miles of former TH 232. The attached worksheet shows the originally estimated costs in the first column, the actual costs of the two project phases in the second and third columns, and a total of actual costs in the fourth column. The original estimated cost was \$8,900,00. This was also the amount of turnback funding paid to Aitkin County. The total project costs are \$8,714,237, which does not include county staff time for engineering on the projects. Staff						
engineering costs totaled \$485,061.						
Alternatives, Options, Effects or	n Others/Comments:					
Recommended Action/Motion: None						
Financial Impact:						
Is there a cost associated with this What is the total cost, with tax and Is this budgeted?	•	No lain:				

Aitkin County State-Aid Highway 3 (old TH 232) Project Funding

TH 232 Reconstruction Cost Estimate	st Est	st Estimate			Cos	Cost Breakdown by Phase	by Phase					i	-
3/17/2011												Total Final	la L
2010 Bossetruction Cost. \$600 000 per mile			Phase 1 - West Ju	unct. of (:H 5 to 1/4 mil	Phase 1 - West Junct. of CH 5 to 1/4 mile west of Rat Lake	Phase 2 - 1/	/4 mile	Phase 2 - 1/4 mile west of Rat Lake to TH 65	ake to TH	65	Cost	
Estimated 2015 Reconstruction Cost: \$765,769 per mile Construction Cost:	per mile		Construction Cost:	Cost									
Estimated Cost per Mileage mile	Total	Total Estimated Cost	Mileage	Or Estim	Original Estimated Cost	Final Cost	Mileage	O _l Estim	Original Estimated Cost	Final Cost	Sost		
9.04 \$ 765,769	↔	6,922,552	5.84		4,472,091 \$	3,788,158	3.2	\$	2,450,461	\$ 4,09	4,096,726 \$		7,884,884
Total Cost:	€	6,922,552											
Right of way Cost: Estimated Cost per Mileage mile	Tota	Total Estimated Cost											
9.04 \$ 69,823	69	631,200		\$	\$ 992,766 \$	256,281		ب	223,433.63	\$	422,137	\$	678,418
Total Cost:	↔	631,200											
Engineering/Project Development Costs: Consultant Engineering \$ Consultant Environmental \$ Consultant Archaeological \$	nt Cos	s ts: 1,000,000 100,000 200,000		ዏ ዏ ዏ	646,018 64,602 10,000	\$ 23,046 \$ 9,149 \$ 1,613		<u></u>	353,982.30 35,398.23 190,000	<mark>ஃ</mark> ጵ ጵ	2,642 5,340 109,145	% ↔ ↔ 	25,588 14,489 110,758
Total Cost:	ss	1,300,000											
Total Estimated Project Cost:	५ ५	8,853,752		φ.	5,600,477	\$ 4,078,248		۰۶	3,253,275	\$ 4,6	4,635,989	\$ 8,714,237	,237
Acutal Engineering Costs do not include Aitkin County staff engineering costs, which total \$485,061	County st	aff engineering	costs, which total \$	485,061.									





Requested Meeting Date: November 22, 2022

Title of Item: Committee Reports

▼ REGULAR AGENDA

Action Requested by: County Business

Committee	Freq.	Schedule	Current Board Representative
Association of MN Counties (AMC)			
Environmental & Natural Resources Policy			Commissioner Ann Marcotte
General Government			Commissioner Don Niemi
Health & Human Services			HHS Director Cynthia Bennett
Public Safety Committee		•	Commissioner Laurie Westerlund
Transportation Policy			Commissioner Brian Napstad
Aitkin Airport Commission	Monthly	1st Wednesday	Wedel
Aquatic Invasive Species (AIS)	Monthly	3rd Thursday	Wedel and Npastad
Aitkin County CARE Board	Monthly	3rd Tuesday	Westerlund
Aitkin County Community Corrections Advisory	Quarterly	Varies	Wedel and Marcotte
Aitkin County Water Planning Task Force	Bi-Monthly	3rd Wednesday	Wedel
Aitkin Economic Development Administration	Quarterly	3rd Thursday	Wedel
Arrowhead Counties Association	8-9x yearly	3rd Wednesday	Niemi and Westerlund
Arrowhead Economic Opportunity Agency	Bi-Monthly	3rd Wednesday	Westerlund, Niemi (Alt)
Arrowhead Regional Development Council	Quarterly	3rd Thursday	Niemi, Westerlund (Alt)
ATV Committee	Monthly		Napstad and Westerlund
Big Sandy Lake Management Plan	Monthly	2nd Wednesday	Napstad, Marcotte (Alt)
Budget Committee	Most Months	1st Tuesday	Marcotte and Napstad
East Central Regional Library Board	Monthly	2nd Monday	Niemi, Napstad (Alt)
Economic Development	Monthly	1st Wednesday	Napstad and Niemi
Emergency Management	As needed	- cerrounicous	Wedel
Environmental Assessment Worksheet	As needed	6	Marcotte and Napstad
Extension	4x Year	Monday	Marcotte, Westerlund (Alt)
Facilities/Technology	As needed	moriday	Wedel and Westerlund
H&HS Advisory (Liaison)	Monthly except July	1st Thursday	Westerlund and Wedel
Historical Society	Monthly	4th Wednesday	Wedel
Joint Powers Natural Resource Board	Odd Months	4th Monday	Napstad
Lakes and Pines	Monthly	3rd Monday	Niemi, Marcotte (Alt)
Law Library	Quaterly	Set by Judget	Marcotte, Niemi (Alt)
McGregor Airport Commission	Monthly		Napstad
Mille Lacs Fisheries Input Group	8-10x Year	Lust Wednesday	Westerlund
Mille Lacs Watershed	10x Year	3rd Monday	Westerlund, Niemi (Alt)
Mississippi Headwaters Board	Monthly	4th Friday	Marcotte, Napstad (Alt)
MN Rural Caucus	8x Year	Varies	Niemi, Westerlund (Alt)
Natural Resources Advisory Committee	8-10x Year	2nd Monday	Marcotte and Napstad
NE MN Office Job Training	As called	Zria Moriday	Niemi
Northeast MN ATP	Quarterly	Varies	Napstad, Engineer Welle, Niemi (Alt)
Northeast MN ECB	5-6x Year	4th Thursday	Napstad, Dan Guida (Alt)
Northeast Waste Advisory Committee	Quarterly	2nd Monday	Napstad, Westerlund (Alt)
Northern Counties Land use Coordinating Board		1st Thursday	Marcotte, Napstad (Alt)
Ordinance	As needed	15t Thursday	Napstad and Marcotte
Personnel/Insurance	As needed	2nd Tuesday	Marcotte and Wedel
Planning Commission	Monthly	3rd Monday	Marcotte, Westerlund (Alt)
Rum 1W1P Policy Committee	Quarterly	Ath Monday	Westerlund, Niemi (Alt)
Snake River Watershed	Monthly	4th Monday	Niemi, Napstad (Alt)
Snake River 1W1P Policy	D: Monthly	Ord Thoras deco	Niemi, Napstad (Alt)
Sobriety Court	Bi-Monthly	3rd Thursday	Wedel
Solid Waste Advisory	As needed	0 1111 1	Napstad and Westerlund
Toward Zero Deaths	Monthly	2nd Wednesday	Wedel
Tri-County Community Health Services	Quarterly	2nd Thursday	Westerlund





Requested Meeting Date:

Title of Item:

REGULAR AGENDA	Action Requested	:	Directi	on Requested
CONSENT AGENDA	Approve/Deny	Motion	Discus	ssion Item
INFORMATION ONLY	Adopt Resolut			Public Hearing* ice that was published
Submitted by:			Department:	
Presenter (Name and Title):			Estima	ated Time Needed:
Summary of Issue:				
Alternatives, Options, Effects or	n Others/Comments	:		
Recommended Action/Motion:				
Financial Impact: Is there a cost associated with this	s request?	Yes	No	
What is the total cost, with tax and	d shipping? \$			
Is this budgeted? Yes	No	Please Expl	ain:	



5B
Agenda Item #

Requested Meeting Date: November 22, 2022

Title of Item: Closed Session Under MN Statute 13D.03 Subd.1(b) Labor Negotiations **Direction Requested Action Requested: REGULAR AGENDA** Approve/Deny Motion Discussion Item CONSENT AGENDA Adopt Resolution (attach draft) Hold Public Hearing* INFORMATION ONLY *provide copy of hearing notice that was published Submitted by: **Department: Brittany Searle** Administration **Estimated Time Needed: Presenter (Name and Title):** Jessica Seibert, County Administrator 30 **Summary of Issue:** Update on open contracts **Alternatives, Options, Effects on Others/Comments: Recommended Action/Motion: Financial Impact:** Yes No Is there a cost associated with this request? What is the total cost, with tax and shipping? \$ Is this budgeted? Yes No Please Explain: