

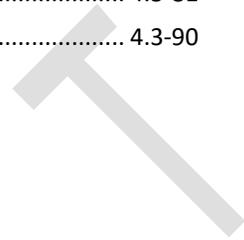
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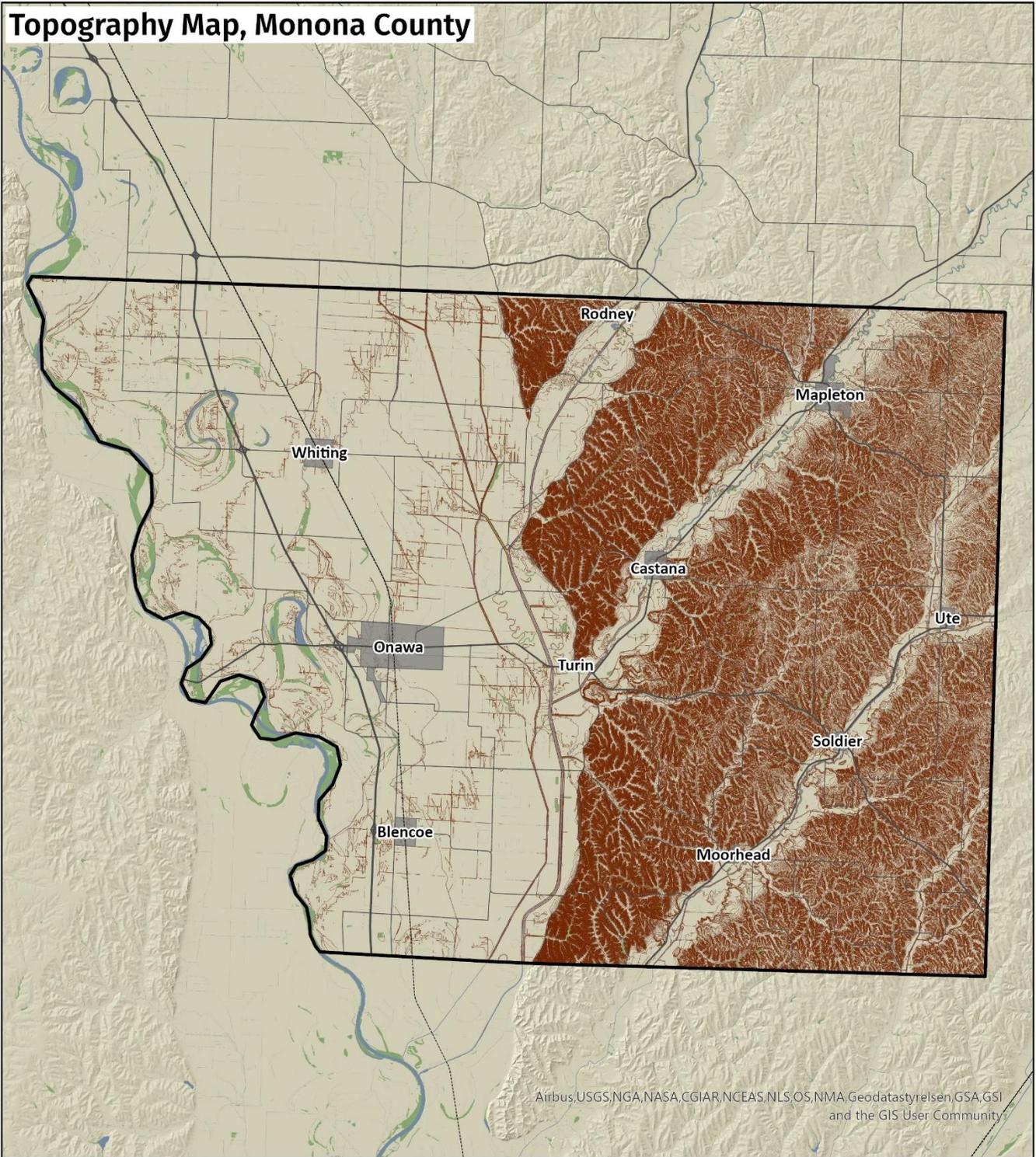
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Topography Map, Monona County



 Marsh, Swamp, Bog, Prairie	 Lake, Reservoir	 Railroad	 
 River	 Incorporated Areas	 Contours	
 County Boundary			<p><i>The map does not represent a survey, no liability is assumed for the accuracy of the data delineated herein, either expressed or implied by SIMPCO.</i></p> <p>© 2025 Siouxland Interstate Metropolitan Planning Council. Please call 712-279-6286 to obtain permission for use.</p>

C. Monona County

PROFILE – UNINCORPORATED AREA & COUNTY

Monona County is located near the center of Iowa’s western boundary. The County is bordered by Woodbury County to the north, Crawford County to the east, Harrison County to the south, and the state of Nebraska across the Missouri River, to the west. Monona is approximately 699 square miles in size.

Rivers & Watersheds

The western border of Monona County is the Missouri River. Other significant rivers in the County include the Maple River, Soldier River, and the West Fork of the Little Sioux River. There are five (5) watersheds within the County that drain storm water and snow melt into streams and lakes, wetland areas, or into groundwater reserves. These watersheds are Blackbird-Soldier Watershed, Little Sioux Watershed, Monona-Harrison Ditch Watershed, Maple Watershed, and Boyer Watershed. Regional breakdown for watersheds is provided within *Region Planning Area* information. The following map depicts the sub-watersheds within those as listed above. Subwatersheds are determined based on hydrologic unit code (HUC) level 12, which includes more detail including tributary data.

In addition to the dams as provided in Title II *Hazards*, part B. *Definitions* listing, the following table shows all low hazard classification dams as on record for Monona County. All have a condition assessment of “Not Rated” and an EAP of “NR”.

<i>Dam Name</i>	<i>NIDID</i>	<i>Dam Name</i>	<i>NIDID</i>
ANDRESEN/COBERLY DAM	IA01885	MC CALL SUBWATERSHED 1-2182	IA02763
ARCOLA SUBWATERSHED SITE 1-5084	IA02725	MC CALL SUBWATERSHED M-17070	IA02764
ARCOLA SUBWATERSHED SITE 2-3090	IA02724	MC CALL SUBWATERSHED SITE 10-2	IA00765
ARCOLA SUBWATERSHED SITE B-3000	IA02726	MC CALL SUBWATERSHED SITE 10-3	IA00764
ARCOLA SUBWATERSHED SITE B-5350	IA02727	MC CALL SUBWATERSHED SITE 30-1	IA00773
ARCOLA SUBWATERSHED STA 44+80	IA00755	MC CALL SUBWATERSHED SITE 32-1	IA00774
ARNOLD-ARMSTRONG SUBWTRSHD 64+00 #25	IA00789	MC CALL SUBWATERSHED SITE 8-1	IA00762
ARNOLD-ARMSTRONG SUBWTRSHD SITE 3A-3050	IA02728	MC CALL SUBWATERSHED SITE M-1	IA00768
ARNOLD-ARMSTRONG SUBWTRSHD SITE M-14195	IA02729	MC CALL SUBWATERSHED SITE M-2	IA00767

ARNOLD-ARMSTRONG SUBWTRSHD STA 127+05	IA00785	MC CALL SUBWATERSHED SITE M-3	IA00766
ARNOLD-ARMSTRONG SUBWTRSHD STA 171+55	IA00784	MC CALL SUBWATERSHED SITE M-5	IA00761
ARNOLD-ARMSTRONG SUBWTRSHD STA 190+78	IA00783	MC MASTERS SUBWATERSHED 2703	IA02765
ARNOLD-ARMSTRONG SUBWTRSHD STA 2+05 #3	IA00779	MC MASTERS SUBWATERSHED 3075	IA02768
ARNOLD-ARMSTRONG SUBWTRSHD STA 23+00	IA00781	MC MASTERS SUBWATERSHED 3907	IA02766
ARNOLD-ARMSTRONG SUBWTRSHD STA 243+48	IA00782	MC MASTERS SUBWATERSHED 4592	IA02767
ARNOLD-ARMSTRONG SUBWTRSHD STA 62+89 #1	IA00780	McHugh Dam	IA04180
ARNOLD-ARMSTRONG SUBWTRSHD STA 69+48	IA00787	MIKE MIKKELSON SUBWATERSHED 11-3227	IA02776
ARNOLD-ARMSTRONG SUBWTRSHD STA 76+60 #3	IA00778	MIKE MIKKELSON SUBWATERSHED 3-1630	IA02769
ARNOLD-ARMSTRONG SUBWTRSHD STA 99+95	IA00786	MIKE MIKKELSON SUBWATERSHED 5-10316	IA02770
ARNOLD-ARMSTRONG SUBWTRSHD STA27+80 #26	IA00790	MIKE MIKKELSON SUBWATERSHED 5-13484	IA02771
BAKER SUBWATERSHED SITE 1-3	IA00801	MIKE MIKKELSON SUBWATERSHED 5-18280	IA02772
BAKER SUBWATERSHED SITE 2-4	IA00799	MIKE MIKKELSON SUBWATERSHED 5-5020	IA00700
BAKER SUBWATERSHED SITE 5-3	IA00800	MIKE MIKKELSON SUBWATERSHED 9-2555	IA02773
BARBER HOLLOW SUBWATERSHED SITE 5-1	IA00727	MIKE MIKKELSON SUBWATERSHED M-10210	IA02774
BARBER HOLLOW SUBWTRSHED SITE 5-H-3865	IA02730	MIKE MIKKELSON SUBWATERSHED M-2395	IA02775
Behrendt Dam	IA04210	MIKE MIKKELSON SUBWATERSHED M-5905	IA02777
CARLSON DAM	IA00698	MONONA COUNTY ROADGRADE DAM 13-83-43	IA00763
CHARLES WOODS LAKE DAM	IA01656	MONONA COUNTY ROADGRADE DAM 23-82-43	IA02444
CLOUD DAM	IA02934	MONONA COUNTY ROADGRADE DAM 5-82-42	IA00712
CLUBINE DAM	IA03737	MOORE SUBWATERSHED SITE M-10130	IA02788
COBERLY DAM	IA00699	MOORE SUBWATERSHED SITE M-10180	IA02787
COBERLY/BUTLER DAM	IA00705	MOORHEAD DAM	IA00742
COBERLY/SWENSON DAM	IA00754	MUCKY CREEK SUBWATERSHED SITE 5-4185	IA02789
COTTONWOOD-GREEN VALLEY SUBWS 50+40 #2	IA00745	MUCKY CREEK SUBWATERSHED SITE 6-1	IA00726
COTTONWOOD-GREEN VALLEY SUBWS 75+70 #2	IA00744	MUCKY CREEK SUBWATERSHED STA 19+20	IA00753
COTTONWOOD-GREEN VALLEY SUBWS 99+50 #2	IA00743	MUCKY CREEK SUBWATERSHED STA 26+20 #3	IA00749
COTTONWOOD-GREEN VALLEY SUBWS STA 14+10	IA00746	MUCKY CREEK SUBWATERSHED STA 28+50 #2	IA00748
CROY SUBWATERSHED SITE 1-1292	IA02731	MUCKY CREEK SUBWATERSHED STA 37+80 #8	IA00750
CROY SUBWATERSHED SITE 2200	IA02732	MUCKY CREEK SUBWATERSHED STA 41+70	IA00752
CROY SUBWATERSHED SITE 22200	IA02733	MUCKY CREEK SUBWATERSHED STA 57+00	IA00751
CROY SUBWATERSHED SITE 23700	IA02734	NASS DAM	IA03222
CROY SUBWATERSHED SITE 2530	IA02735	NAURUDE DAM	IA00713
CROY SUBWATERSHED SITE A3-1050	IA02736	NEPPER SUBWATERSHED SITE 3348	IA02791
CROY SUBWATERSHED SITE A3-4908	IA02737	NEPPER SUBWATERSHED SITE M-5700	IA02790

CROY SUBWATERSHED SITE A4-2458	IA02738	NUTT HOLLOW SUBWATERSHED SITE 2-3176	IA02868
CROY SUBWATERSHED SITE A4-4572	IA02739	NUTT HOLLOW SUBWATERSHED SITE 2-6161	IA02792
CROY SUBWATERSHED SITE G3-2730	IA02740	NUTT HOLLOW SUBWATERSHED SITE 3-3075	IA01414
CROY SUBWATERSHED SITE G3-4083	IA02741	NUTT HOLLOW SUBWATERSHED SITE M-12855	IA02793
CROY SUBWATERSHED SITE G5-1890	IA02742	NUTT HOLLOW SUBWATERSHED SITE M-3650	IA01415
CROY SUBWATERSHED SITE M-10500	IA02743	NUTT HOLLOW SUBWATERSHED SITE M-6842	IA01413
CROY SUBWATERSHED SITE M-6159	IA02744	OLSON/MANN DAM	IA00798
CROY SUBWATERSHED SITE M-7500	IA02745	PHILLIPS SUBWATERSHED SITE 131	IA02799
DALY DAM	IA02321	PHILLIPS SUBWATERSHED SITE 3250	IA02803
DAVIS-BATTLE CR. WATERSHED SITE C-12-1	IA00760	PHILLIPS SUBWATERSHED SITE 5740	IA02804
DAVIS-BATTLE CR. WATERSHED SITE C-12-2	IA00759	PHILLIPS SUBWATERSHED SITE M-11985	IA02801
DAVIS-BATTLE CR. WATERSHED SITE D-1	IA00770	PHILLIPS SUBWATERSHED SITE M-17312	IA02802
DAVIS-BATTLE CR. WATERSHED SITE D-3	IA00771	PHILLIPS SUBWATERSHED SITE M-6600	IA02800
DAVIS-BATTLE CR. WATERSHED SITE D-7	IA00769	PLAGGE DAM	IA03733
DAVIS-BATTLE CR. WATERSHED SITE E-1	IA00710	REED SUBWATERSHED SITE 1-1	IA02657
DAVIS-BATTLE CR. WATERSHED SITE F-1	IA00711	REED SUBWATERSHED SITE 13C-2232	IA02808
DAVIS-BATTLE CR. WATERSHED SITE G-1	IA00729	REED SUBWATERSHED STA 37+70 #2	IA00735
DAVIS-BATTLE CR. WATERSHED SITE G-2	IA00728	REED SUBWATERSHED STA 41+45 #8	IA00736
DAVIS-BATTLE CR. WATERSHED SITE H-1	IA00731	REED SUBWATERSHED STA 45+25 #4	IA00738
DAVIS-BATTLE CR. WATERSHED SITE H-3	IA00730	REED SUBWATERSHED STA 46+55 #11	IA00737
DAVIS-BATTLE CR. WATERSHED SITE H-4-1	IA00772	REED SUBWATERSHED STA 46+80 #3	IA00740
DAVIS-BATTLE CR. WATERSHED SITE H-4-2	IA00732	REED SUBWATERSHED STA 71+10	IA00741
DAVIS-BATTLE CR. WATERSHED SITE H-4-4	IA00733	REED SUBWATERSHED STA 88+35 #2	IA00734
GALLUP SUBWATERSHED 1-1200	IA02760	REED SUBWATERSHED STA 97+82	IA00739
GALLUP SUBWATERSHED 4-3538	IA02761	REINIG DAM	IA00797
Gochenour Dam	IA04178	RODNEY SUBWATERSHED SITE 12-2	IA00701
GOSCH DAM	IA00758	RODNEY SUBWATERSHED SITE 2-1	IA02811
HABINCK SUBWATERSHED STA 93+30	IA03087	RODNEY SUBWATERSHED SITE 5-1	IA00704
HANIGAN DAM	IA03734	RODNEY SUBWATERSHED SITE 8-1	IA00703
HIEBER DAM	IA03735	RODNEY SUBWATERSHED SITE 8-2	IA00702
HUFF SUBWATERSHED 3-6069	IA02762	SAVERY/WELLIVER DAM	IA00724
HUFF SUBWATERSHED STA 122+69 #1	IA00804	SCHLIES DAM	IA03267
HUFF SUBWATERSHED STA 42+70 #1	IA00802	SCNOENJAHN DAM	IA00775
HUFF SUBWATERSHED STA 77+72 #1	IA00803	SIEVERS DAM	IA00747
HUFF SUBWATERSHED STA 94+07 #3	IA00805	SPRING VALLEY PROJECT NO. 2	IA01648

HULL/COBERLY DAM	IA00715	TOM KING SUBWATERSHED SITE 6290	IA02813
HUNDAHL DAM	IA01883	U-B SUBWATERSHED SITE 2-2	IA00777
IOWA NONAME32	IA00714	U-B SUBWATERSHED SITE 2C-1	IA00776
IOWA NONAME33	IA00723	UPPER BEAVER SUBWATERSHED SITE 15-1	IA00718
IOWA NONAME76	IA01636	UPPER BEAVER SUBWATERSHED SITE 20-1	IA00716
JOHNSON DAM	IA03736	UPPER BEAVER SUBWATERSHED SITE 4-1	IA00722
KINDER/PATTERSON DAM	IA00725	UPPER BEAVER SUBWATERSHED SITE 50-1	IA00721
LAWSON SUBWATERSHED SITE 1-1	IA00706	UPPER BEAVER SUBWATERSHED SITE 51-1	IA02814
LAWSON SUBWATERSHED SITE 2-1	IA00707	UPPER BEAVER SUBWATERSHED SITE 6-1	IA00720
LAWSON SUBWATERSHED SITE 2-2	IA00708	UPPER BEAVER SUBWATERSHED SITE M-1	IA00717
LAWSON SUBWATERSHED SITE 3-1	IA00709	UPPER BEAVER SUBWATERSHED SITE M-2	IA00719
LEECH HOLLOW SUBWATERSHED SITE C-11	IA01888	WEST BEAVER SUBWATERSHED STA 23+45 #A	IA00792
LEECH HOLLOW SUBWATERSHED SITE C-12	IA01891	WEST BEAVER SUBWATERSHED STA 33+30	IA00795
LEECH HOLLOW SUBWATERSHED SITE C-14	IA03908	WEST BEAVER SUBWATERSHED STA 40+06 #A	IA00791
LEECH HOLLOW SUBWATERSHED SITE C-2	IA01890	WEST BEAVER SUBWATERSHED STA 51+80	IA00794
LEECH HOLLOW SUBWATERSHED SITE C-5	IA01889	WEST BEAVER SUBWATERSHED STA 97+07	IA00793
LEECH HOLLOW SUBWATERSHED SITE C-6	IA01887	WOODS HOLLOW SUBWATERSHED SITE 1-2875	IA02820
LEECH HOLLOW SUBWATERSHED SITE C-8	IA03002	WOODS HOLLOW SUBWATERSHED SITE M-10450	IA02819
LITTLE SIOUX SCOUT RANCH DAM	IA02723	WOODS HOLLOW SUBWATERSHED STA 40+42	IA00796
LOWER BEAVER SUBWTRSHD STA 21+00 #2	IA00757	WOODWARD GLEN SUBWATERSHED SITE 5800	IA02821
LOWER BEAVER SUBWTRSHD STA 80+04 #7A	IA00756		

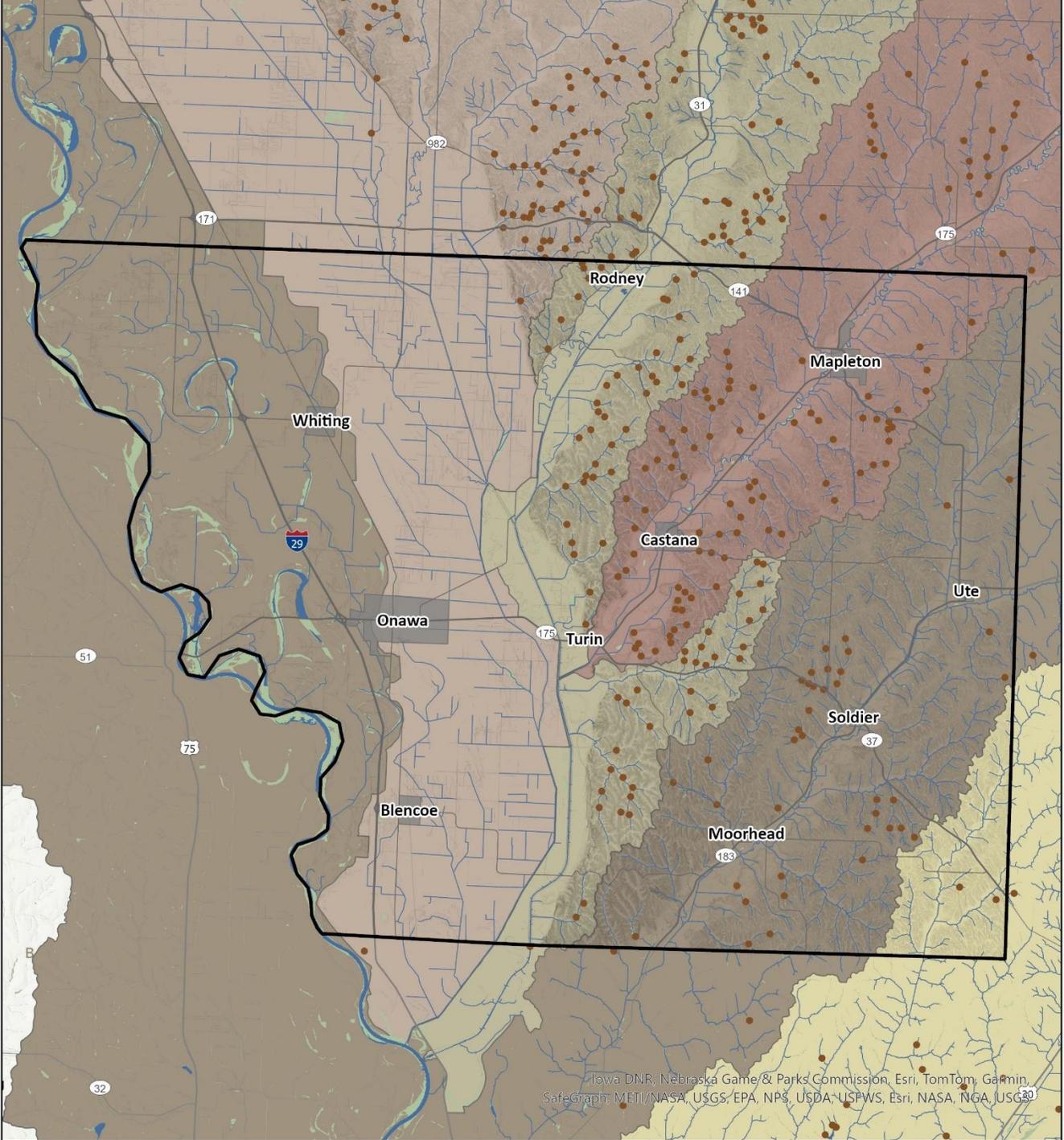
Landform Regions & Geology

Monona County is composed of three (3) distinct landform regions that include Missouri Alluvial Plain, Loess Hills, and Southern Iowa Drift Plain.

The Missouri Alluvial Plain was formed by erosion and sediment deposits resulting from the Missouri River. This landform region is characterized by backwater sloughs and oxbow lakes. There is also greater potential for flooding within this region.

The Loess Hills and Southern Iowa Drift Plain both resulted from geological processes related to ancient glaciers. The Loess Hills are unique to the region. This landform was created from

Watershed and Water Resources, Monona County



Towa DNR, Nebraska Game & Parks Commission, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA-USFWS, Esri, NASA, NGA, USGS

● Dams	▣ Incorporated Areas	▣ Floyd	▣ Monona-Harrison Ditch
▣ Marsh	▣ County Boundary	▣ Little Sioux	0 3 6 Miles
▣ River	Watersheds	▣ Lower Big Sioux	⊕ N W ⊙ E
▣ Lake, Reservoir	▣ Blackbird-Soldier	▣ Maple	The map does not represent a survey, no liability is assumed for the accuracy of the data delineated herein, either expressed or implied by SIMPCO.
▣ River/Stream	▣ Boyer		© 2025 Siouxland Interstate Metropolitan Planning Council. Please call 712-279-6286 to obtain permission for use.

the accumulation of wind-blown silt. Today these steep hills rise up from the surrounding landscape. The Southern Iowa Drift Plains are marked by rolling hills which are the result of the manipulation of glacial sediment deposits by glacial melt and streams.

Transportation Network

On the western side of the County is Interstate 29, which generally runs north to south. State Highways 37, 141, 175, and 183 are included in the County's road network.

The County's secondary road system is composed of 1,063.89 miles. Within this category, Farm-to-Market roads make up 353.94 miles, while Area Service roads account for 709.95 miles. Gravel or earth surface types account for 860.65 miles of the secondary road system. The remaining 195.54 miles are composed of bituminous, asphalt, or PCC surface types.

Through an extremely competitive application process, Monona County was awarded \$10.26M for its Port of Blencoe. Funded through the Department of Transportation's Port Infrastructure Development Program (PIDP), *Progressive Farmer* (via DTN online) reports that the \$12.8M project will enable barge transport of ag products, saving thousands of over the road miles and staffing hours¹⁹. Concept for the project goes back to the 1930's but was not realized until NEW Cooperative invested in a facility to load barges and a fertilizer storage shed. The ribbon cutting was held November 3, 2023. In terms of mitigation planning, this option reduces potential Transportation Incident opportunities through implementation of a relatively low risk transport method.

County Governance & Supports

The county seat is located in Onawa, in the center of the western half of the County. Its jurisdiction covers all unincorporated portions within county boundaries. Monona County is governed by a three (3)-person Board of Supervisors. The Board has both legislative and administrative powers and is the policy-making body of Monona County government. Additional offices include the following departments:

¹⁹ Source: <https://www.dtnpf.com/agriculture/web/ag/news/business-inputs/article/2023/11/03/inland-waterway-grain-fertilizer>

- Auditor / Elections
- Assessor
- Attorney
- Engineer / Roads
- Emergency Management
- Recorder
- Sheriff
- Clerk of Court
- Community Services
- Early Childhood Iowa
- Treasurer / Auto / Driver's License
- Veterans Affairs
- Zoning & Environmental Health
- 911 Services

The Monona County's Emergency Management Agency is responsible for the coordination of the emergency response activities of various law enforcement and fire departments, the Hazardous Materials Response Team, local hospitals, medical and ambulance services, as well as Red Cross, Salvation Army, and Health & Human Services agencies. The Monona County Sheriff's Office provides law enforcement to the County, which includes jail, communications, patrol, and protection services. A sheriff and seven (7) deputies staff this office.

County Facilities

Equipment Garages	12008 Aspen Ave, Albaton 400 Oak, Blencoe
Park Restroom Bldg	29998 Filbert Ave, Blencoe
Shelter House & Related	Sec 7 Twp 82 Rge 45, Blencoe
Equipment Garage	318 Pine, Castana
Shelter/Restrooms & Related	Sec 5 Twp 84 Rge 43, Castana
Shelter/Restrooms & Related; Antenna Tower	Sec 23 Twp 84 Rge 44, Castana
Maintenance/Equip Storage & Related	140 Maple, Mapleton
Shelter/Restrooms & Related; Office & Mechanic Bldg; Storage Sheds	201 S Maple, Mapleton
Equipment Garage	40 S Muckey, Mapleton
Shelter House & Related	Sec 30 Twp 85 Rge 43, Mapleton
Equipment Garage	102 Railroad, Moorhead
Museum	29508 Oak Ave, Moorhead
Law Enforcement Ctr	909 7th St, Onawa
Multiple Storage, County Shop Sheds; Related Mntc	708 20th St, Onawa
Court House; Court House Annex; Garage	610 Iowa Ave, Onawa
Conservation Office/Shop Bldg; Storage Bldgs; Shelter	318 E Iowa Ave, Onawa

Pump Houses; Restroom	Sec 3 Twp 83 Rge 45, Onawa
Shelter/Restrooms & Related	Sec 3 Twp 83 Rge 44, Rodney
Shelter/Restrooms & Related; Antenna Tower	41425 280th St, Soldier
Equip Garage; Supply Storage & Maintenance-related Bldgs	110 IA-37, Soldier
Equipment Garage	115 Wolfe, Turin
Historic Dwellings; Barn & Related	22133 Larpenteur Memorial Rd, Turin
Equipment Garage	118 W Main, Ute
Equipment Garage	103 Wells, Whiting
R.T. Reese Cabin	22171 Larpenteur Memorial Rd

Non-Government Facilities

Burgess Health Center	1600 Diamond St, Onawa
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Education

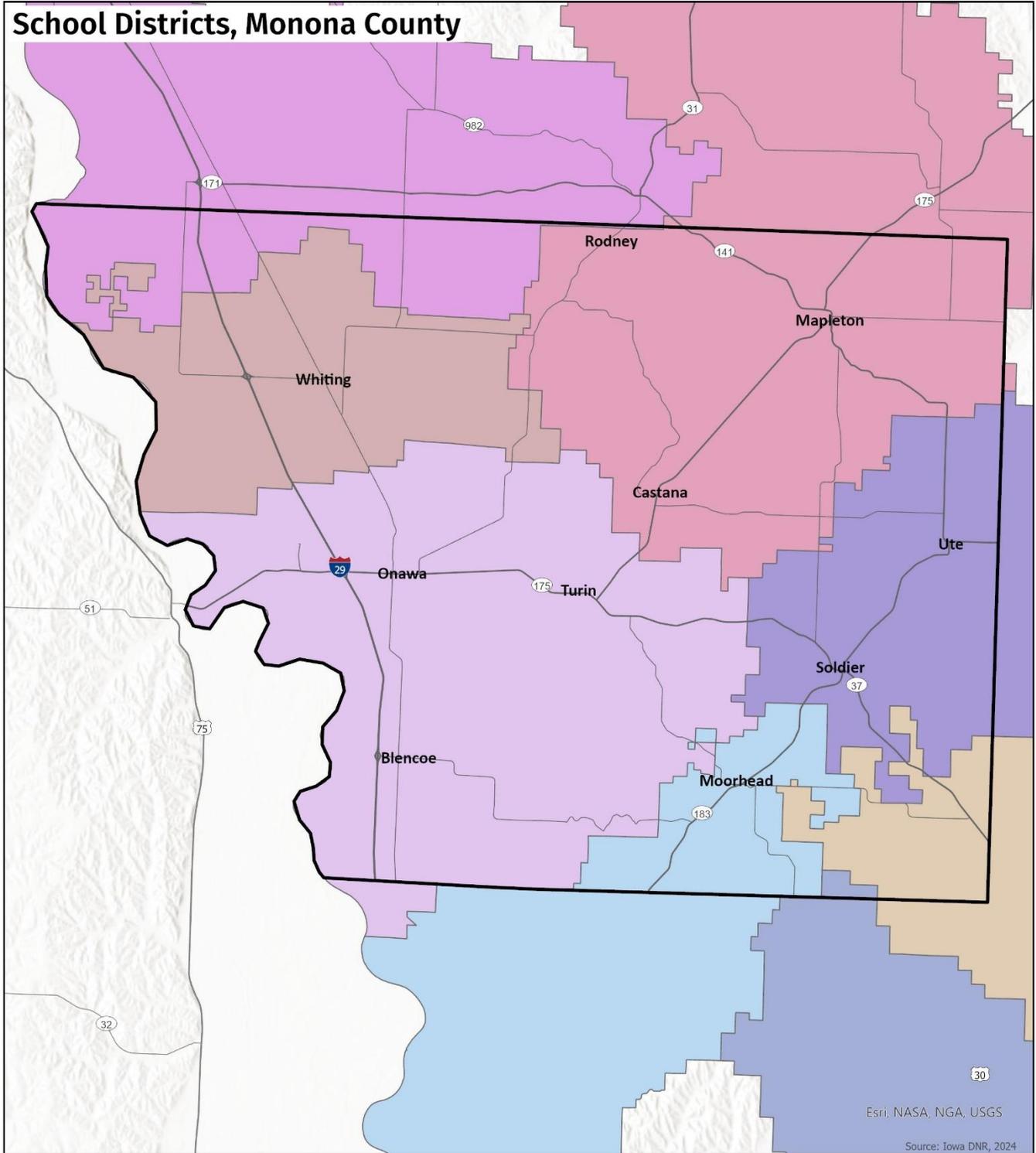
Monona County is served by several school districts, with only three (3) housing facilities within county borders. A total of four (4) elementary schools and three (3) middle school/high schools represent the following districts:

- Whiting Community Schools
- West Monona Community Schools
- Maple Valley-Anthon Oto Community Schools

Though there are no colleges or universities within Monona County, however there is an ISU Extension office in Onawa.

Educational attainment in Monona County shows that a higher percentage of residents have completed high school or earned an associate's degree compared to the state average. The county also has a relatively large proportion of individuals who have attended some college without obtaining a degree. However, Monona County has fewer residents with bachelor's and graduate degrees compared to the state, indicating a gap in higher education. The percentage of individuals without a high school diploma is slightly below the state average, suggesting comparable access to basic education.

School Districts, Monona County



Esri, NASA, NGA, USGS

Source: Iowa DNR, 2024

- | | | |
|---|---|--|
|  BOYER VALLEY |  WEST HARRISON |  WHITING |
|  CHARTER OAK-UTE |  WEST MONONA |  WOODBINE |
|  MAPLE VALLEY-ANTHON OTO |  WESTWOOD | |



The map does not represent a survey, no liability is assumed for the accuracy of the data delineated herein, either expressed or implied by SIMPCO.

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<i>Level of Education</i>	<i>Monona</i>	<i>Iowa</i>
No high school diploma	6.4%	6.7%
High school degree (includes equivalency)	39.4%	29.9%
Some college, no degree	23.8%	19.6%
Associate's degree	11.7%	12.2%
Bachelor's degree	12.7%	20.9%
Graduate or professional degree	6%	10.7%

Population

<i>Community Characteristics</i>	
Population (2023)	8,619
Population (2017)	8,865
Total Households	4,047
Median Household Income	\$62,944
Median Household Income – Iowa	\$73,147

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Region</i>
5 years and younger	430	5.6%	6.78%
65 years and older	2,143	23.8%	16.01%
Below the poverty level	1,321	11.2%	12.88%
Living with a disability	1,197	13.8%	12.41%

Housing

Monona County offers more affordable housing compared to the state of Iowa, with a significantly lower median home value, though the median rent is slightly higher than the state average. The county has a total of 4,390 housing units, with the majority of them occupied. Most of the occupied units are owner-occupied, while a smaller portion are renter-occupied. A modest number of homes remain vacant, suggesting a relatively stable housing market. These figures highlight a community with a strong focus on homeownership, though rental options are also available.

<i>Values</i>	<i>Monona</i>	<i>Iowa</i>
Median Home Value	\$122,600	\$213,300

Median Rent per Zillow	\$919	\$740
<i>Units</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	4,390	-
Occupied	3,907	88.8%
Owner-occupied	3,364	78%
Renter-occupied	1,054	22%
Vacant	483	11%

Income & Economics

The table below communicates the quantity and proportion of employed individuals within each industry. The total employed population of Monona County is 4,307. The three leading industries are:

1. Education services and health care and social assistance
2. Retail trade
3. Arts, entertainment, and recreation, and accommodation and food services.

In Monona County, the civilian employed population aged 16 and older totals 4,175 individuals. The largest employment sectors are education, health care, and social assistance, which account for a significant portion of the workforce. Retail trade and transportation, warehousing, and utilities also employ a large number of residents. Other notable sectors include manufacturing, construction, and professional services. Agriculture, including forestry, fishing, and mining, remains an important part of the local economy. Smaller shares of the workforce are involved in fields such as finance, arts, and public administration. This diverse employment base reflects a community with a mix of traditional industries, service-oriented sectors, and public services.

<i>Industry for the Civilian Employed Population 16 and over</i>		
Civilian employed population (16 and older)	4,175	-
Agriculture, forestry, fishing and hunting, and mining	424	10.1%
Construction	310	7.4%
Manufacturing	379	9%
Wholesale trade	69	4.6%
Retail trade	498	33.8%

Transportation and warehousing, and utilities	264	17.9%
Information	22	1.5%
Finance and insurance, and real estate and rental and leasing	202	13.7%
Professional, scientific, and management, and administrative and waste management services	283	19.2%
Education services and health care and social assistance	1,077	73%
Arts, entertainment, and recreation, and accommodation and food services	316	21.4%
Other services except public administration	189	12.8%
Public administration	142	9.6%

Valuation of County Assets

In addition to valuation of County assets as impacted by a given project, that of privately owned properties, facilities, and personal property will be considered as they may contribute to overall protected benefit when mitigation projects are planned. Each mitigation action, strategy, and/or project pursued for implementation in the next five (5) years will fully consider protections to those assets and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation those structures.

PARTICIPATION

SIMPCO facilitated an in-person meeting at the County EMA office December 18, 2024 with Peggy Rolph, Auditor, and Patrick Prorok, EMA in attendance. Additional input was collected via survey. Of the 251 responses to the primary survey, 19 were submitted by Monona County residents.

CAPABILITIES

The County Zoning Administrator serves as Floodplain Administrator. As a county, its unincorporated areas have 2 Repetitive Loss /Severe Repetitive Loss residential properties.

Community	Most Recent Date of Loss	# RL Properties	# of Losses	Net Building Payment	Net Contents Payment	Total Net Payment
MONONA COUNTY	9/16/2019	2	5	\$ 96,417.40	\$ 11,740.38	\$ 108,157.78

<i>Plans/Guidance</i>	
Capital Improvement Plan <i>via annual budget process</i>	
Comprehensive Land Use Plan	
Comprehensive Plan	
County Recovery Plan	
Critical Facilities Plan (Mitigation/Response/Recovery)	
Flood Mitigation Assistance (FMA) Plan	
Economic Development Plan	(County) Economic Development Partnership for Growth
County Emergency Plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Zoning Ordinance • Floodplain Ordinance • Nuisance Ordinance (including <i>Debris Mgmt Plan</i>) 	<ul style="list-style-type: none"> • Subdivision Ordinance • Tree Trimming Ordinance • Floodplain Management Ordinance
Note: complete list available @ www.mononacounty.org/Ordinances	
<i>Programs/Commissions</i>	
Historic Preservation Commission	
Mutual Aid Agreements	County-wide; SCFR HazMat Response
National Flood Insurance Program (NFIP) Participant	CID #190893B
Planning/Zoning Boards	Enterprise Zoning Commission (oversight of Property Acquisition Prog) Development Planner Includes oversight of Builder's Plan NFIP Floodplain Administrator Zoning/Land Use Restrictions
<i>Staff/Department</i>	
Emergency Management Coordinator	Hazard Awareness Program
Emergency Response Team	Includes oversight of Emergency Operations Center
Engineer	
Mapping Specialist (GIS)	Monona Co; SIMPCO
Secondary Roads Dept	Includes oversight of Tree Trimming Program & Compliance
<i>Non-Governmental Organizations</i>	
American Red Cross	
Veterans Groups	
<i>Local Funding Availability/Eligibility</i>	

Apply for Community Development Block Grants	
Capital Improvements funding	
Levy taxes for specified purpose	
Fees for water, sewer, gas, or electric services	
Impact fees for new development under the Economic Development Commission	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

Review of Actions Taken

communication/education		
Warning Sirens	Monona Co / Rodney	2020: Additional sirens in rural recreation areas such as the Rodney Recreation Pits; <i>County EMA</i> collaboration w/Rodney City Council, (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) MEDIUM PRIORITY
Warning Sirens	Monona Co / Rodney	Update. Not completed, still needed. Project carries over to 2025 HMP.
Warning Sirens	Monona Co	2020: Warning Siren at Lewis & Clark Lake would be beneficial to improve warning efforts in the recreation area. <i>County Board of Supervisors, EMA, various departments.</i> (County funds, PDM, community benefit fund programs) MEDIUM PRIORITY
Warning Sirens	Monona Co	Update. Project not implemented but siren is still needed in rec area. Project will carry over to 2025 HMP.
tools/equipment		
Equipment	Monona Co	2020: Region-shared equipment such as high capacity snow blower. <i>County Roads, collaboration between County Roads departments</i> (County funds—potentially multiple, IDOT funds) LOW PRIORITY
Equipment	Monona Co	Update. No action has been coordinated between counties for shared use of high-performance equipment. This project will carry over to 2025 HMP.
Equipment	Monona Co	2020: Communications Trailer. <i>County Board, EMA</i> (County funds, PDM) MEDIUM PRIORITY
Equipment	Monona Co	Complete. The EMS department has a fully equipped trailer that serves as a mobile response unit, training, center, and refuge/shelter location as needed.
Equipment	Monona Co	2020: Trailer designated for road barricade set-up; <i>County Engineer</i> (County funds, IDOT, PDM) HIGH PRIORITY
Equipment	Monona Co	Update. No action taken on this item but project is still needed. Project carries over to 2025 HMP.
development		
Bridges & Roads	Monona County	2020: Bridge and tube projects needed throughout the county; improve drainage patterns, reduce rate of deterioration on bridge components/foundation; <i>County Roads Dept.</i> (County funds, Transportation funds, PDM) HIGH PRIORITY
Bridges & Roads	Monona County	Update not provided. Several road and bridge projects were implemented with several more pending. Unless a specific drainage or access barrier is specified, such projects are not included in the mitigation plan.

flow control		
refuge		
Shelter	Monona County	2020: At Onawa: Interest in adding formal storm shelter with tornado designation at the Fairgrounds and at the Christian Camp within the State Park. <i>County Conservation/Parks Dept, EMA, IDNR/State Parks Dept, City administration</i> (County funds, IDNR Program funding, PDM, Community Benefit funds) LOW PRIORITY
Shelter	Monona County	Update. Project not completed as funding source has not made project feasible. Project will carry over to 2025 HMP.
Shelter	Monona County	2020: Shelter at Peters Park; <i>County Conservation/Parks Dept, EMA, IDNR/State Parks Dept,</i> (County funds, IDNR Program funding, PDM, Community Benefit funds, fundraisers, PDM) LOW PRIORITY
Shelter	Monona County	Update. Not implemented. County still interested in pursuing project at low priority due to lack of funding. Project will carry into 2025 HMP.
technology		
natural barriers/ supports		

Several projects were implemented in addition to those included in the 2020 Plan including but not limited to the following.

- Emergency Response has been equipped with tools for CPR – AED for deputies. There is a fully equipped trailer that can serve as a shelter.
- The EMS group meets annually to coordinate planning and assess program needs.
- Roadway elevation project was completed on K45 between Whiting and Sloan.
- A new access road was added (E60) connecting the south end of Blencoe to the Port.
- A land use change was implemented to appropriate operation of Port Blencoe.

RISK ASSESSMENT

The NOAA Storm Event database includes record of 41 reported events within Monona County between 11/01/2019 and 12/31/2024.

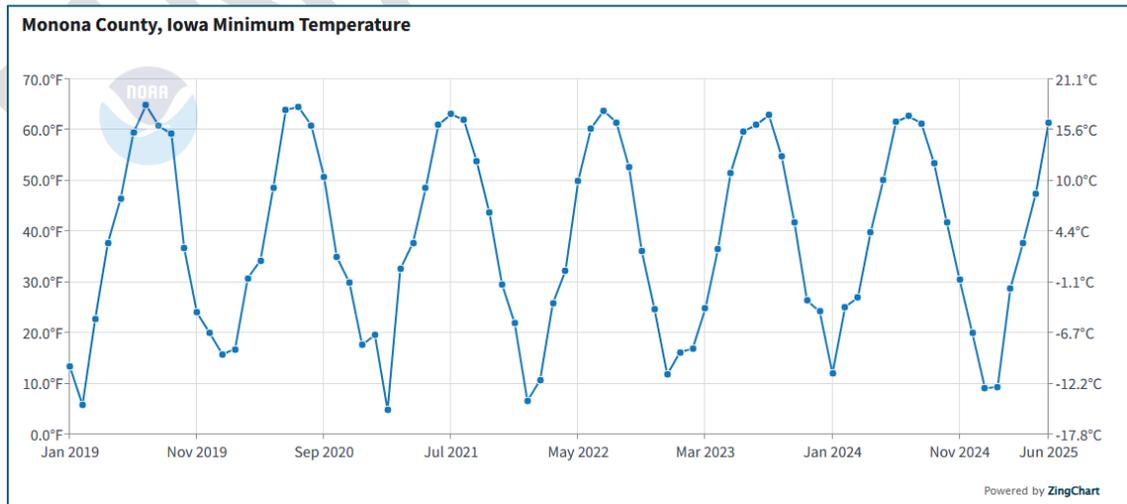
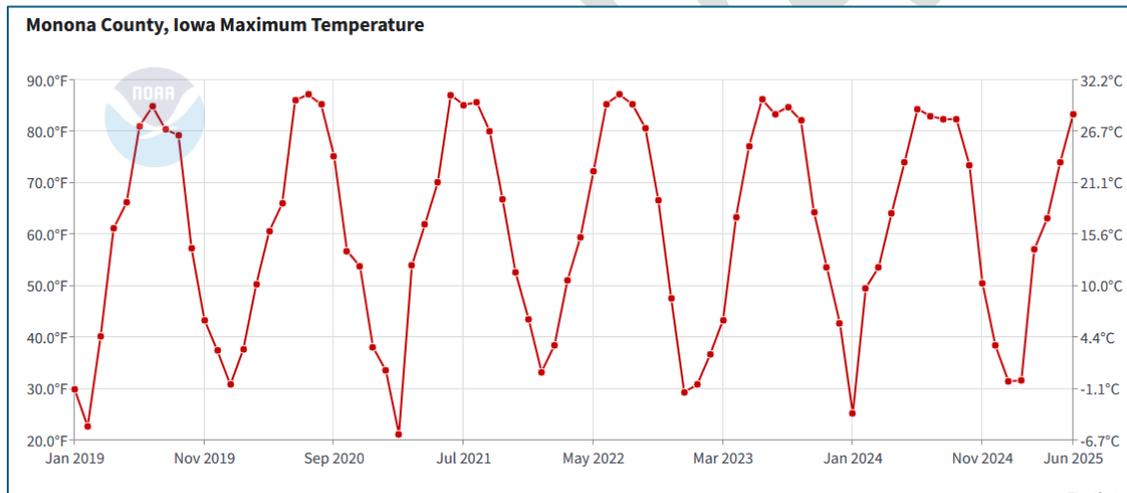
Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
MONONA (ZONE)	11/26/2019	14:00	Winter Weather		0	0	0.00K	0.00K
MAPLETON MUNI ARPT	6/2/2020	20:45	Hail	1.00 in.	0	0	0.00K	0.00K
BLENCOE	7/11/2020	0:30	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
MONONA (ZONE)	11/10/2020	1:00	Ice Storm		0	0	0.00K	0.00K
MONONA (ZONE)	12/24/2020	3:00	Blizzard		0	0	0.00K	0.00K

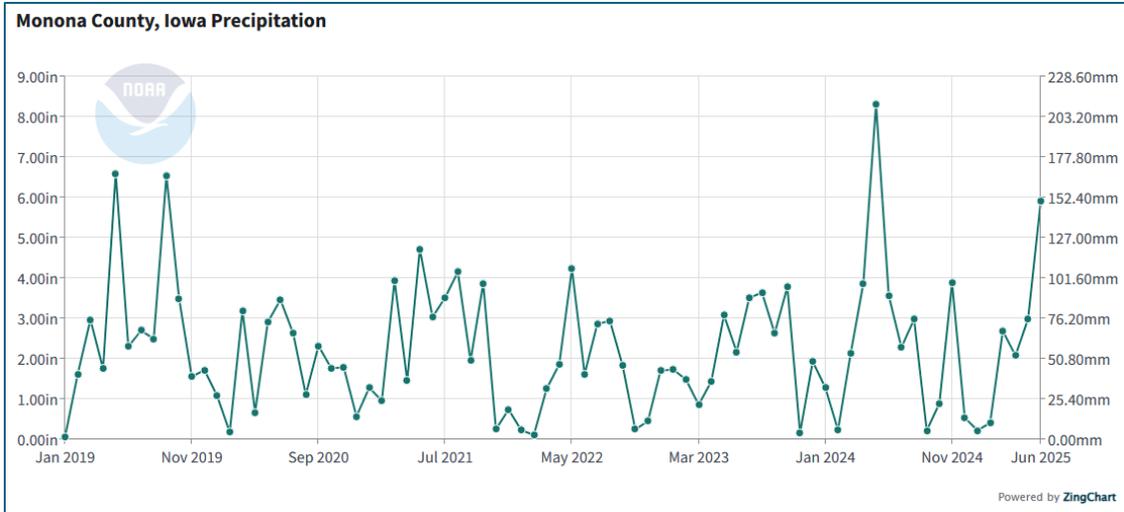
MONONA (ZONE)	1/14/2021	21:00	Blizzard		0	0	0.00K	0.00K
MONONA (ZONE)	2/14/2021	5:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
MONONA (ZONE)	2/21/2021	4:30	Winter Storm		0	0	0.00K	0.00K
ONAWA	7/9/2021	0:09	Hail	1.50 in.	0	0	0.00K	0.00K
WHITING	5/12/2022	18:51	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
MAPLETON MUNI ARPT	5/19/2022	22:28	Hail	1.00 in.	0	0	0.00K	0.00K
SOLDIER	7/11/2022	2:15	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
MOORHEAD	7/23/2022	19:33	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
MONONA (ZONE)	12/22/2022	3:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
MONONA (ZONE)	1/18/2023	13:00	Winter Storm		0	0	0.00K	0.00K
MONONA (ZONE)	3/26/2023	1:00	Winter Weather		0	0	0.00K	0.00K
BLENCOE	4/19/2023	17:28	Hail	1.50 in.	0	0	0.00K	0.00K
TURIN	4/19/2023	17:10	Hail	1.00 in.	0	0	0.00K	0.00K
UTE	4/19/2023	18:00	Hail	1.00 in.	0	0	0.00K	0.00K
MAPLETON	5/8/2023	18:29	Hail	1.00 in.	0	0	0.00K	0.00K
BLENCOE	7/12/2023	5:00	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
MONONA (ZONE)	8/21/2023	12:00	Excessive Heat		0	0	0.00K	0.00K
MONONA (ZONE)	1/8/2024	1:00	Winter Storm		0	0	0.00K	0.00K
MONONA (ZONE)	1/11/2024	18:00	Winter Storm		0	0	0.00K	0.00K
MONONA (ZONE)	1/12/2024	21:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
MONONA (ZONE)	1/18/2024	11:45	Winter Storm		0	0	0.00K	0.00K
MOORHEAD	4/26/2024	16:17	Tornado	EFO	0	0	0.00K	0.00K
PREPARATION	4/26/2024	16:05	Tornado	EFO	0	0	0.00K	0.00K
SOLDIER	4/26/2024	16:23	Tornado	EF1	0	0	0.00K	0.00K
BLENCOE	5/21/2024	12:25	Hail	1.00 in.	0	0	0.00K	0.00K
CASTANA	5/24/2024	1:46	Thunderstorm Wind	72 kts. MG	0	0	0.00K	0.00K
ONAWA	6/12/2024	18:31	Hail	3.50 in.	0	0	0.00K	0.00K
WHITING	6/12/2024	17:51	Hail	1.75 in.	0	0	0.00K	0.00K
WHITING	6/12/2024	18:14	Hail	2.75 in.	0	0	0.00K	0.00K
ALBATON	6/24/2024	4:35	Flood		0	0	1.000M	298.60K
RODNEY	6/25/2024	3:56	Flash Flood		0	0	100.00K	100.00K
BLENCOE	7/21/2024	17:35	Funnel Cloud		0	0	0.00K	0.00K
WHITING	7/21/2024	17:02	Funnel Cloud		0	0	0.00K	0.00K
WHITING	7/29/2024	23:05	Thunderstorm Wind	53 kts. MG	0	0	0.00K	0.00K
MONONA (ZONE)	8/26/2024	12:00	Excessive Heat		0	0	0.00K	0.00K
MONONA (ZONE)	12/19/2024	12:00	High Wind	50 kts. EG	0	0	0.00K	0.00K

Summary of Events

Number of County/Zone areas affected:	2
Number of Days with Event:	34
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	2
Number of Days with Event and Crop Damage:	2
Number of Event Types reported:	13

Following are charts depicting Monona County's maximum temperature, minimum temperature, and precipitation by month from November 2019 through June 2025.





Other Hazard Risks

By [Dean Welte](#)

Published: Jun. 24, 2024 at 11:08 AM CDT



ONAWA, Iowa (KTIV) - Rising river levels are still being seen on the Missouri and Little Sioux Rivers in Monona County, Iowa.

According to Monona County Emergency Management, they expect the water levels will be similar to what was seen in 2019 when the area had major flooding. The Missouri River may be slightly higher at 37.3 feet compared to the 36.51 feet seen in March 2019.

Emergency management says people along the Little Sioux and Missouri should form a self-evacuation plan immediately. Water levels can change quickly, but the current predictions show the rivers should crest between June 25 and June 26. People who live along the Missouri River could lose power due to rising water.

At this time, Monona County officials say they don't expect to see any fatalities. There are currently no emergency shelters set up in the county.

Road closures may happen in the county. For the safety of residents, several rescues have occurred in Woodbury County due to flooding.

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Monona County remains in a flood warning, residents should have a self-evacuation plan



www.ktiv.com/2024/06/24/monona-county-remains-flood-warning-residents-should-have-self-evacuation-plan By [Dean Welte](#) Published: Jun. 24, 2024 at 11:08 AM CDT. (June 9, 2025)

The nuclear plant in Fort Calhoun as noted in the 2020 HMP has been deactivated. No new activity taking place. Residual matter may still have impact if catastrophic incident occurs. However, there is a greatly reduced risk from when plant was active.

Monona County does have recorded repetitive loss properties included in the FEMA NFIP flood database.

County	Monona County
Community	Monona County
Most Recent Date of Loss	9/16/2019
# of Repetitive Loss Properties	2
Number of Losses	5
Net Building Payment	\$96,417.40
Net Contents Payment	\$11,740.38
Total Net Payment	\$108,157.78

Priority Hazards

The County has designated the following as priority hazard concerns.

- Tornado/Windstorm
- Flooding
- Severe Winter Storm
- Thunderstorm w/ Hail & Lightning

Survey respondents indicated Very Concerned for Drought (11/19), Infrastructure Failure (8/19) and Tornado / Windstorm (7/19) at the highest frequency. The same ranked highest when asked to indicate Top Three Hazards, with Thunderstorm with Hail and Lightning tying at #3 with Infrastructure Failure. Drought prevails as overlying concern for residents, though Moona County event reports do not include recorded events.

MITIGATION ACTIONS, STRATEGIES, & PROJECTS

communication/education		
Promo/Info	Monona County	New. Improve awareness of program availability. <i>County EMA, emergency response teams throughout county, State program officer(s).</i> (State program funds where applicable; in-kind volunteer time) HIGH PRIORITY.
Warning Sirens	Monona County / Rodney	Carry over. Additional sirens in rural recreation areas such as the Rodney Recreation Pits; <i>County EMA</i> collaboration w/Rodney <i>City Council</i> , (Local general budget funds, County supports, State/Federal response funds, PDM, Community Benefits funds) MEDIUM PRIORITY
Warning Sirens	Monona County	Carry over. Warning Siren at Lewis & Clark Lake needed to improve warning efforts in the recreation area. <i>County Board of Supervisors, EMA, various departments.</i> (County funds, PDM, community benefit fund programs) MEDIUM PRIORITY
Warning Sirens	Monona County / Blencoe	New. City plans to initiate a collaboration with the county to install a warning siren for the NEW Cooperative Port of Blencoe to serve the port and nearby park. <i>County, County EMA, City of Blencoe, Industry partners</i> (Private funds, Pre-disaster funds as available, local general budget and county funds, transportation funds as may be applicable) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Monona County	New. County is seeking opportunity to purchase mobile generator allowing flexibility to meet needs at varying locations as needed. <i>County EMA, County Board</i> (annual budget, public safety/response funds, PDM as available) HIGH PRIORITY.
Equipment	Monona County	Carry over. Region-shared equipment such as high capacity snow blower and sandbag fillers. <i>County Roads, collaboration between County Roads departments</i> (County funds—potentially multiple, IDOT funds) LOW PRIORITY
Equipment	Monona County	Carry over. Trailer designated for road barricade set-up; <i>County Engineer</i> (County funds general budget , IDOT, PDM) HIGH PRIORITY
development		
flow control		
refuge		
Shelter	Monona County	Carry over. At Onawa: Interest in adding formal storm shelter with tornado designation at the Fairgrounds &/or at the Christian Camp within the State Park. Priority level reflects lack of funding opportunity, not level of need. <i>County Conservation/Parks Dept, EMA, IDNR/State Parks Dept, City administration</i> (County funds, IDNR Program funding, PDM, Community Benefit funds, private funds as applicable) LOW PRIORITY
Shelter	Monona County	Carry over. Shelter at Peters Park. <i>County Conservation/Parks Dept, EMA, IDNR/State Parks Dept,</i> (County funds, IDNR Program funding, PDM, Community Benefit funds, fundraisers, PDM) LOW PRIORITY
technology		
natural barriers/ supports		

JURISDICTIONS

1. BLENCOE

a. Profile

The city of Blencoe is located near the southwest corner of Monona County, just east of Interstate 29. County Highways E60 and K45 intersect near the center of the western boundary. Fletcher ditch runs southwest away from the city. A few miles west of Blencoe is the Missouri River, a key factor in hosting the NEW Cooperative Port of Blencoe and Huff-Warner Access Area and campground. In operation as of spring 2021, the port serves as a world market gateway for grain and fertilizer.

City Governance & Community Supports

Blencoe is governed by an elected five (5) person City Council and Mayor. City offices include City Clerk and Maintenance. Fire and rescue services for the City and surrounding area are provided by the Blencoe Volunteer Fire Department, which is partially funded by the City. Law enforcement services are contracted by the City.

The City of Blencoe is not a member of the NFIP program. The Municipal Code of Ordinances was last updated in 2024. A Comprehensive Plan was adopted in 2014.

Demographics, Housing, & Economics

In 2023, Blencoe's population²⁰ grew to 264, up from 233 residents in 2020. The town has 107 households and a median household income of \$81,705, which is higher than the median for Monona County, which stands at \$62,944. Blencoe has a notably higher proportion of residents aged 65 and older compared to both the county and state averages. The town also has a smaller proportion of young children, with fewer living in the community. While the poverty rate is relatively low, there is a higher incidence of residents living with disabilities compared to the county and state averages.

<i>Community Characteristics</i>	
Population (2023)	264

²⁰ Source: <https://censusreporter.org/profiles/16000US1906940-blencoe-ia/>

Population (2020)	233
Total Households	107
Median Household Income	\$81,705
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	22	8.3%	5.6%	5.7%
65 years and older	90	34.1%	23.8%	16%
Below the poverty level	8	3%	11.2%	11.3%
Living with a disability	55	20.8%	13.8%	18.5%

Blencoe has a total of 114 housing units, with 107 currently occupied and 7 vacant. The community includes a small number of mobile homes, totaling three units. The housing stock is primarily older, with the majority of homes built before 1970. A smaller portion of the housing was constructed between 1970 and 1999, while only a few homes were built after the year 2000, reflecting a largely established housing market.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	114	-
Occupied	107	94%
Vacant	7	6%
Mobile Homes	3	3%
<i>Age of Residential Structure</i>		
Built 2000 or later	3	2.8%
Built 1970 – 1999	32	29.4%
Built 1969 or earlier	74	67.9%

Leading Employers

Most residents work outside of Blencoe. Its proximity about midway between Sioux City and Omaha/Council Bluffs allows residents the convenience of access to several regional job centers. NEW Cooperative has a notable presence with development of its Port of Blencoe. The nature of its business results in high-capacity storage and transfer of volatile materials including but not limited to propane, grain, and fertilizer storage.

Critical Facilities, Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

In addition to valuation of privately owned properties, facilities, and personal property, each of Blencoe’s proposed Mitigation Actions and Strategies pursued for implementation in the next five (5) years will fully consider protections to those assets and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation of those structures. Those entities include the following Community Support office(s) and/or Gathering Location(s).

<i>Critical/City Facilities</i>	
Community Bldg & Related	413 Main St
Fire Station; Warning System, & Related	510 Main St
City Park	515 Linn St
Richardson Park	502 N Manley St
Lift Stations & Sewer Lift Stations	197 Main St
	635 Main St (@ Monona)
	502 N Manley St
2-Cell Lagoon	(East on) County Hwy 60
Shelter House; Water Tower & Related	Linn St & Main St
Water Treatment & Related	515 Linn St
Shop/Storage & Related	201 Front St
Campground	
City Maintenance Shed	201 Oak St
<i>Community Support Facilities</i>	
St Bernard Catholic Church	201 Main St

Private businesses and organizations play an essential role in the City’s recovery efforts and communication networks and may be categorized as essential or critical facilities. The list is not exhaustive. Additional community churches, organizations, and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

The taxable valuation of city property is \$2,976,629 based on current insurance documentation. This serves as a base for cost-benefit analysis to determine project feasibility. An in-depth cost-benefit analysis will be conducted as part of a project's scope and is subject to a given project and project area.

Though not a city property, it is important to note the valuation of the investments in the NEW Coop Port of Blencoe at \$10,192,535 and its parcel to the north valued at \$342,110. Mitigation implementations will consider impact on the port, in addition to private, residential, and city properties/holdings. Benefits as well as potential for adverse effect will be among considerations

b. Participation

An in-person mitigation planning meeting was held at City Hall, Blencoe on October 31, 2024. Facilitated by SIMPCO, the following were in attendance.

- Janet Ryan, Mayor
- Erica Stanislav, City Clerk
- Chip Collison, Maintenance

Monona County accounted for 18 survey responses with 4 indicating residence in Blencoe.

c. Community Capabilities

The City of Blencoe has one (1) warning siren with horns facing three (3) directions. Signals can be heard from most points out of doors within city limits and beyond. Signals are sounded through the County Communications Center and can be initiated by the city through protocol in place. With the development of the Port of Blencoe and the nearby Huff-Warner Access and camping area, the city and Monona County are considering need for an additional siren in that area.

Blencoe is equipped with a water pump that enables clean water transfer from overflowing drainage ditches to areas less prone to flash flooding. The following table identifies key elements supporting community actions in the event of a disaster. Blencoe’s ISO fire rating has improved since last update, likely due to improved water pressure resulting from their water systems improvements project. While the city has not adopted a standard building code, it does follow form of state code.

The city participates in the NFIP program with the Mayor serving as Floodplain Administrator. Blencoe has zero RL/SRL properties.

<i>Plans/Guidance</i>	
Comprehensive Plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Zoning Ordinance • Nuisance Ordinance • Subdivision Ordinance 	<ul style="list-style-type: none"> • Drainage Ordinance • Storm Water Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Non-Participant	CID #190705B
ISO Fire Rating	6-5x
<i>Staff/Department</i>	
Public Works Official	
Planning/Zoning Boards	
Emergency Response Team	Fire Department & Contracted Services
<i>Non-Governmental Organizations</i>	
Veterans Groups	American Legion Post #665 (Stevens-Kelly; limited local activity)
<i>Local Funding Availability/Eligibility</i>	
Apply for Community Development Block Grants	
Capital Improvements funding via annual budget process	
Levy taxes for a specific purpose	
Fees for water, sewer, gas, or electric services	
Designation of funds through TIF	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds

	<ul style="list-style-type: none"> • special tax bonds
	<ul style="list-style-type: none"> • private activities

Review of Actions Taken (Since 2019)

communication /education		
Promo/Info	Blencoe	Implemented: Blencoe. Implemented promotion of existing alerts system and continues to do so.
Warning Sirens	Blencoe	2020: 2nd warning siren placement - northwest end of town; Location Simpson & Mack; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) MEDIUM PRIORITY
		Update. Action not taken.
tools/equipment		
Generator & Related Projects	Blencoe	2020: Generators; city hall/community ctr which operates as command center as needed; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Update. Generators were included for lift stations in two water works project – Sewer (2022) and Wastewater Treatment Plant (2019).
development		
flow control		
refuge		
technology		
natural barriers/ supports		

d. Risk Assessment

Contributing Factors

Geographic location supports priority of Blencoe’s concerns regarding tornado and severe winter storm. The same geography serves to benefit Blencoe as it lies entirely outside of the floodplain, significantly reducing concerns related to riverine flooding. However, flash flooding incidents continue to rise. Drought conditions with intermittent heavy periods of rain increase effects of such flash flood events.

Prospect of train derailment, especially as tracks are impacted by recurring inclement weather conditions, remains a concern, as does the volume of potentially hazardous materials transported on via rail through town. Hazardous materials-related incidents cannot be overlooked for another reason – proximity of grain elevator and propane tanks to anhydrous

ammonia storage area, which poses further complications from an incident that may occur while volatile materials are in transport over the road, by rail, and barge.

An analysis of NOAA Storm Event Records indicated 5 recorded incidents specific to Blencoe and 16 in the Monona “Zone” affecting the county as a whole. Below are Blencoe’s events as recorded between 11/01/2019 and 12/31/2024. This does not include substantial impacts as may have been reported from winter weather in February and March 2025.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
BLENCOE	7/11/2020	0:30	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
BLENCOE	4/19/2023	17:28	Hail	1.50 in.	0	0	0.00K	0.00K
BLENCOE	7/12/2023	5:00	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
BLENCOE	5/21/2024	12:25	Hail	1.00 in.	0	0	0.00K	0.00K
BLENCOE	7/21/2024	17:35	Funnel Cloud		0	0	0.00K	0.00K

Of 18 Monona County survey responses, 4 indicated Blencoe as place of residence. Survey responses specific to Blencoe indicate a high-level concern of drought, followed by at least some concern for several additional natural disasters and other hazards. Earthquake and Landslide are the only hazards with no concern indicated.

Priority Hazards

Respondents indicated Flash Flooding and Tornado/Windstorm with the highest frequency under the question asking top 3 concerns. Drought, Severe Winter Storm, Thunderstorm – Hail/Lightning, Hazardous Materials Incidents, Infrastructure Failure, and Transportation Incident also noted.

Tornado, Severe Winter Storm, and Flash Flood remain primary natural disaster concerns for the city. Extremes in both winter and summer months continue to trend, though more costly events have been in the winter. As discussed, there is considerable concern for hazardous materials incidents as well.

e. Mitigation Needs, Actions, & Strategies

Planned strategies include the following table of projects.

communication /education		
Promo/Info	Blencoe	New. Improve communications of existing programs and systems as available including but not limited to: Alert Iowa, Increasing water intake during extreme heat and/or extreme dry conditions; Water conservation; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
Warning Sirens	Blencoe	Carry over. The City still needs a second warning siren to sufficiently serve its corporate boundaries and nearby rural residents. Cost is approximately \$15,000. Funds have not been designated. City will pursue grant opportunities and continually review opportunities to include project in the annual budget. This project will carry as an ongoing effort with MEDIUM PRIORITY.
Assessment/Study / planning	Blencoe	New. Emergency Response Plan – city is interested in updating and formalizing its emergency response plan. City staff, County EMA (local funds) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Blencoe	Carry over. Generators as noted in 2020 are planned for city hall/community ctr which operates as command center as needed; implementation at the N Manley Lift Station, estimated cost: \$35,000. <i>Public Works.</i> (Local general budget funds, pre-disaster funds) HIGH PRIORITY
Generator & Related Projects	Blencoe	New. In addition to the lift station project, generators are planned for the Community Center (to be established as Command Center) and the Fire Station (to maintain operations in the event of a disaster) at the estimated cost of \$35,000 each. <i>Public Works.</i> (Local general budget funds, pre-disaster funds) HIGH PRIORITY
Equipment	Blencoe	New. Interest in coordinating resource attainment (such as cots) in the event of an emergency where refuge/shelter designation is necessary. No cost expected to be associated with process aside from staff time. <i>City, local partnering response agencies, state and federal programs such as Red Cross.</i> (local general budget and response funds as available/necessary) HIGH PRIORITY
Equipment	Blencoe	New. Mobile pumps needed for stormwater transfer. Estimated project cost is \$50,000. <i>Public Works.</i> (City funds general budget , FMA, Disaster Mitigation/Disaster Response funds as available) HIGH PRIORITY
development		
flow control		
refuge		
technology		
natural barriers/ supports		

In addition to mitigation-specific actions, the following are planned for completion by the city of Blencoe and are funded in part through TIF.

- Sewer Main lining/replacement
- Asphalt roads
- Force main to lagoon
- Storm drain intakes and force main
- Parks and playground equipment
- Housing and infrastructure
- Waterline west of K45
- Building improvements to current fire station (concrete replacement and safety bar per insurance).

Any projects as may be added to the schedule through 2025 may require an amendment to be considered for eligibility for mitigation funds through FEMA and/or Iowa Homeland Security and Emergency Management.

2. CASTANA

a. Profile

The city of Castana is situated near the center of Monona County. State Highway 175 runs north-south through the center of city limits. Most commercial and residential structures are located east of the highway. Maple River runs north-south along the western edge of the city and Cottonwood Creek meanders along the eastern boundary. The two bodies of water converge near the center of the northern boundary.

City Governance & Community Supports

The City of Castana is governed by a five-person elected City Council and the Mayor. The only office in addition to the Mayor and Council is that of City Clerk. At the time of preparing this profile, Castana anticipated the mayor seat to be vacated, moving the Mayor Pro Tem into the seat to serve in the interim.

Emergency services are provided by Castana Fire and Rescue, operated independent of the City, and staffed by volunteers. Ambulance service is provided through Mapleton Ambulance. Monona County provides law enforcement.

Demographics, Housing, & Economics

CensusReporter.org shows an estimate of Castana's population at 157 in 2023²¹, up from 107 residents in 2020. Local records indicate a significantly lower number, closer to that reported in the census estimates. As noted throughout this plan, data provides a snapshot in time estimate of populations, including anticipated projections. Serving a basis for relative comparison, the population as noted in 2023 is included for reference and context within other communities throughout the region.

The same source as noted provides that the town is home to 80 households, with a median household income of \$55,833, which is lower than the Monona County median of \$62,944. A notable portion of Castana's population is aged 65 or older, making up nearly a quarter of the community. The town has no residents aged 5 or younger, which is significantly lower than both the county and state averages. While the poverty rate is lower than the county and state averages, around 7.6% of residents live below the poverty line. Additionally, 17.2% of residents live with a disability, a figure slightly above the county average.

<i>Community Characteristics</i>	
Population (2023)	157
Population (2020)	107
Total Households	80
Median Household Income	\$55,833
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	0	0.0%	5.6%	5.7%
65 years and older	38	24.2%	23.8%	16.0%
Below the poverty level	18	7.6%	11.2%	11.3%

²¹ Source: <https://censusreporter.org/profiles/16000US1911530-castana-ia/>

Living with a disability	27	17.2%	13.8%	18.5%
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Castana has a total of 105 housing units, with 63 currently occupied and 25 vacant. The town has 13 mobile homes, making up a relatively high proportion of the housing stock. The majority of the homes in Castana were built before 1970, while a smaller number were constructed between 1970 and 1999. Notably, no residential structures were built after 2000, indicating a housing market largely consisting of older homes. Vacancy rate may be significantly higher than indicated based on local information. At the time of writing this plan, the city is initiating a complete water systems improvement, which when implemented will hopefully restore resident and home occupancy rates as projected in various estimates.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	105	
Occupied	63	76%
Vacant	25	24%
Mobile Homes	13	12%
<i>Age of Residential Structure</i>		
Built 2000 or later	0	0.0%
Built 1970 – 1999	11	15.3%
Build 1969 or earlier	61	84.7%

Critical Facilities

City Hall/Chestnut Hall	103 Pine St
Community Building	113 3rd St
City Park & related	Willow & 4 th Sts
Pump Houses	by Maple River
	by Elevator
Water Tower	South end of 2nd St
New Fire Station	321 Pine St
Old Fire Station	3rd & Pine Sts
Storage Bldgs	320 Pine St
	114 N 3rd St
Garage/Storage	202 3rd St

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Castana Community Church	101 4th Street
Lilly Jack Saloon	301 Ash Street
Timber Ridge Ranch and Winery & Vineyard	33453 153rd St (outside city limits)

Valuation of City Assets

A valuation of city assets was not provided. However, the city will conduct a thorough cost-benefit analysis including public and private facilities and properties as may be affected by the implementation of a given project.

b. Participation

A virtual mitigation planning meeting was facilitated by SIMPCO via Teams was held on February 25, 2025 with Castana City Clerk Cristy Nelson in attendance.

c. Community Capabilities

<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Drainage Ordinance • Nuisance Ordinance • Storm Water Ordinance 	<ul style="list-style-type: none"> • Subdivision Ordinance • Tree Trimming Ordinance
<i>Programs</i>	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Non-Participant	CID #190462B
ISO Fire Rating	Class 7
Planning/Zoning Boards	
Tree Trimming Program	Included in tree trimming ordinance
<i>Staff/Department</i>	
Emergency Response Team	Yes, Fire Department
<i>Non-Governmental Organizations</i>	
<ul style="list-style-type: none"> • American Legion Auxiliary • American Legion Post #507 (Grimsley-Thayer) • GFWC Iowa 	<ul style="list-style-type: none"> • 76ers • Neighborly Pals • Thursday Club

<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding via annual budget process	
Authority to levy taxes for a specific purpose	
Fees for water services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

Castana is a non-participant in the NFIP program. The city has zero RL/SRL properties.

As corrective measures are pursued for the water systems, the city is mindful of other mitigative needs that may be included with this project and separately. Potential projects include but are not limited to the following.

- Generator/generator connections to maintain function of systems as well as communications through system technologies during power outages
- Wash out controls to stabilize gravel roadways
- Runoff controls and drainage
- Flash flood protections for new infrastructure as completed

A significant strength for the community is provision of bottled water through donations from area businesses of all sizes, showing immense local support.

Review of Actions Taken (Since 2019)

communication/education
tools/equipment
development
flow control
refuge
technology
natural barriers/supports

Stabilization	Castana	2020: Modify road overlay with "packable rock" or more stable substance to minimize washout episodes; City Maintenance (City funds, PDM) MEDIUM PRIORITY
Stabilization	Castana	Update. Carry over. Due to multi-faceted and severe funding constraints, action was not taken on this project. The city is interested in stabilizing the gravel roads throughout its hilly terrain to address proneness to wash out.

Castana completed an addition to the Fire Station at the cost of about \$25,000. Costs were covered by local fundraising efforts.

d. Risk Assessment

Contributing Factors

A review of the NOAA Storm Event database includes one reported incident specific to Castana. As it is centrally located, it can be expected that the city experienced the effects of all 16 Monona (Zone) events affecting the whole county.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
<u>CASTANA</u>	5/24/2024	1:46	Thunderstorm Wind	72 kts. MG	0	0	0.00K	0.00K

In addition to weather events, infrastructure failure is of significant concern. At the writing of this plan, Castana cannot be discussed without acknowledging the city's dire water situation. In addition to other contaminant concerns, extremely high presence of manganese is visible in collected tap water samples. The mineral concentration is high enough to prevent effective use through washing machines and other appliances, rendering the water not only unsafe to drink, but relatively useless. No improvement to water quality occur through boiling. The city is tirelessly seeking funding for an overhaul of their water and water treatment systems. With bottled water necessary for all residents, many have likely sought alternate living arrangements, at least temporarily. The resulting vacancies and lack of response to the census and American Community Survey requests is likely the cause for disparate population and income estimates as provided earlier for discussion.

Priority Hazards

The City recognizes the following as priority hazard concerns for Castana.

- Infrastructure Failure
- Drought
- Thunderstorm w/Hail & Lightning

With persistent drought and water availability in Castana, Grass and Wildland Fires should be given due consideration as an overriding concern. Geographical location alone requires the consideration of Tornado/Windstorm as another significant concern.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Castana	New. Improve communications of existing programs and systems as available including but not limited to: Alert Iowa, Water conservation; Increasing water intake during extreme heat and/or extreme dry conditions; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
tools/equipment		
development		
Improve existing facilities & infrastructure	Castana	New. Castana is actively pursuing funding to reconstruct its water systems as the water is currently unusable. Mineral content in water is so significant that it cannot be used even for laundry. <i>City Council, Contracted consultant/ engineer (USDA, CDBG, Local fund match via Bond/SRLF) HIGH PRIORITY</i>
flow control		
refuge		
technology		
natural barriers/supports		
Stabilization	Castana	Carry over. Modify road overlay with "packable rock" or more stable substance to minimize washout episodes; <i>City Maintenance (City road use funds, PDM) MEDIUM PRIORITY</i>

Tree removal is not a prominent concern, however, activity will be addressed as needed for dead/diseased trees in the public right of way or parking.

3. MAPLETON

a. Profile

The city of Mapleton is located in the northeast corner of Monona County. State Highway 175 runs through the west / northwest portion of city limits, and acts as a part of the western boundary for the section town containing the airport. This section is bound by the Maple River to the east. This river then continues west of Mapleton. Schoenjahn Wildlife Preserve is located along Maple River to the west. Heisler Creek is located north and west of Mapleton. More information can be found at the City of Mapleton's website at www.mapleton.com.

City Governance & Community Supports

Mapleton is governed by a five-person elected council and the mayor. Offices in addition to Mayor and Council include City Clerk, Public Works, Police, and Fire & Rescue. A Planning and Zoning Board also serves the City. Fire/rescue is provided by the Mapleton Fire Department, which is staffed by volunteers, and serves the surrounding area. The city hosts an ambulance service managed through Burgess. The city does have its own police department. Law enforcement services are supplemented by the Monona County Sheriff's Department.

Demographics, Housing, & Economics

CensusReporter.org provides a 2023 population estimate²² of 997 for Mapleton, reflecting a decline from 1,161 residents in 2020. Local determination of population based on utility billing and known dynamics is closer to the 2020 census at 1185. The community includes 518 households, with a median household income of \$52,955, considerably low in comparison to the county and state averages. About 10.4% of the population lives below the poverty line, a clear indication of likely financial challenges.

Mapleton has an estimated total of 630 housing units, with 517 currently occupied and 113 vacant. Real estate marketplaces such as Zillow and Realtor.com indicate a15-16 homes for sale and www.apartmenthomeliving.com/mapleton-ia estimates 35 rentals available indicating a variation in actual vacancy as opposed to estimated. The housing stock includes a small number of mobile homes, with six units in total. Most residents have moved into their homes

²² Source: <https://censusreporter.org/profiles/16000US1949170-mapleton-ia/>

since 2000, while a smaller portion settled in during the 1990s or earlier. This suggests a relatively modern housing base, with a mix of newer and more established residences throughout the community.

Leading Employers

Mapleton has dozens of businesses, each employing a small staff. Leading employers in the city of Mapleton include:

- Maple Valley – Anthon Oto Community School District
- Maple Heights Nursing Home
- Monona County Iron
- NEW Coop
- The City of Mapleton

Critical Facilities

Town Hall, Police Dept, & Communications Bldg	513 Main St
Community Center	511 Main St
Fire Station	106 S 2nd St
Fire Bldg #2	48 Courtright
Ambulance, & Mntc Bldg	49 Maple St
Mapleton Public Library	609 Courtright St
City Garage	102 S 2nd St
Maintenance Bldg	109 Front St
City Shop	405 Heisler St.
City Garage/Storage	Maple St
Storage	39 Maple St
	321 Main St
	600 W Ring
Mapleton Pool & Related	551-599 Sioux St
Mapleton Park & Shelter House	Ring St & S. 7th St
Ball Field & Related	
Pocket Park	

Roadside Park	
Light Plant & Substation	103 S Front St
Sewer Plant & Related	IA-175 & W Ring St
Well Houses	Old Airport
	Willow Vale Golf Club
Water Tower	
Substation	8th & Ring Sts
Pump Station	
Water Treatment Plant	303 IA-175
Sirens	104 Maple
	Chamberlain St
Mapleton Muni Airport & Related	
Willow Vale Golf Club; Club House, & Related	300 Sioux St
Walking Trail	
Mapleton Cemetery	

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Mapleton Elementary School	501 S 7th St
Maple Valley – Anthon Oto High School	
Burgess Family Clinic	513 S Muckey St
Medical Clinic	520 Main St
Maple Heights Nursing Home	2 Sunrise Ave
Post Office	106 S 5 th St
Whiting Woods (County Park)	14858 Peach Avenue (outside City Limits)
Heights Home Health Inc.	114 North 4th St, Ste C
Museum of American History	302 S 7th St
Numerous Churches	

Private businesses and organizations play an essential role in the City’s recovery efforts and communication network, and are therefore included in this itemizing of essential or critical facilities. The list is not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

An approximate overall valuation of city properties, facilities, and other holdings is \$20,261,840. This may not include all equipment and city vehicles. A precise accounting of value will be conducted for use in cost-benefit analysis as specific to a given project.

b. Participation

SIMPCO facilitated a mitigation planning meeting at Mapleton City Hall on February 5, 2025 with City Clerk Karla Uhl in attendance.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
2017 Mapleton Comprehensive Plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code • Drainage Ordinance • Nuisance Ordinance • Storm Water Ordinance 	<ul style="list-style-type: none"> • Subdivision Ordinance • Tree Trimming Ordinance • Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Participant	CID #190208B
ISO Fire Rating	Class 7/7X
Planning/Zoning Boards	
Tree Trimming Program	
<i>Staff/Department</i>	
<ul style="list-style-type: none"> • Building Code Official • Building Inspector • Public Works Official 	<ul style="list-style-type: none"> • Ambulance & EMS • Fire Department • Police Department
<i>Non-Governmental Organizations</i>	
American Legion Post #496 (Loren Hollister)	
Mapleton Community Development Corps	
<i>Local Funding Availability</i>	

Apply for Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water, sewer, gas, and electric services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

The city participates in the NFIP program with the Zoning Administrator serving as Floodplain Administrator. Mapleton has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
Generator & Related Projects	Mapleton	<p>Correction to the 2020 Plan stating generator was added. Additional generators are needed to maintain function of critical facilities during disastrous and other extreme events. <i>City Administrator, Waterworks, County EMA</i> (City funds, community benefit funds, IDOT program funds, PDM funds) HIGH PRIORITY</p> <p>Update. Project not completed due to lack of dedicated funding. Transfer switches were installed at light plant, equipped to handle in-the-moment outages, primarily intended for short-term.</p>
Equipment	Mapleton	<p>2020: Lift station for water plant; <i>City Water Supt</i> (City funds, PDM) HIGH PRIORITY</p> <p>Update: Project has not been completed and carries over to the 2025 HMP.</p>
development		
Improve existing facilities & infrastructure	Mapleton	<p>2020: New motor needed to maintain operation of one of the municipal wells (Willow Vale unit) <i>City Water Dept., IDNR</i> (City funds, IDNR Clean Water/Drinking Water program funds) HIGH PRIORITY</p> <p>Complete. \$30,000 project has been completed.</p>
Improve existing facilities & infrastructure	Mapleton	<p>2020: Rebuild needed for lift station @ 8th & Ring; <i>City Water & Public Works Depts</i> (City funds, IDNR, PDM) HIGH PRIORITY</p> <p>Complete. Estimated project cost of \$50,000 – project has been completed.</p>
flow control		
Drainage projects	Mapleton	<p>2020: Wetlands designation within city limit; <i>project led by Mapleton Community Development Corps in collaboration with the Department of Agriculture and the DNR</i> (Limited expense anticipated) HIGH PRIORITY</p> <p>Project Closed. Project will not be implemented as cost of maintenance if enacted is not feasible.</p>
refuge		
technology		

Other mitigation-focused projects not specified in the 2020 HMP as completed include the following.

- Dike improvements near the airport were implemented, replacing one section of the dike. The \$400,000 project was funded using the city’s reserve of annual FAA (airport) funds. Hangars were added, as was a turnaround.
- The city has adopted IBC by reference with exceptions, consistent with state code practices.
- Drainage improvements were implemented as tied to storm water runoff damages incurred in 2024. The \$110,000 project was funded with Road Use tax dollars. In lieu of pavement repairs, the city added drain connections and new rocks.

d. Risk Assessment

Contributing Factors

General weather events are significantly impactful for Mapleton, especially rain and snow melt related accumulations that contribute to riverine flooding. Approximately one-third of the city is comprised of floodplain, covering its northwest cross-section. An assessment of the NOAA Storm Event database includes 3 reports specific to Mapleton and the Mapleton Municipal Airport.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
MAPLETON	5/8/2023	18:29	Hail	1.00 in.	0	0	0.00K	0.00K
MAPLETON MUNI ARPT	6/2/2020	20:45	Hail	1.00 in.	0	0	0.00K	0.00K
MAPLETON MUNI ARPT	5/19/2022	22:28	Hail	1.00 in.	0	0	0.00K	0.00K

Priority Hazards

The following have been identified as the hazards of priority concern for the City.

- Tornado / Windstorm
- Thunderstorm with Hail and Lightning
- Severe Winter Storm

Lingering effects of the 2011 EF-3 tornado and a lesser tornado in 2008 cause particular wariness for Mapleton’s residents.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Mapleton	New. Improve communications of existing programs and systems as available including but not limited to: Alert Iowa, water conservation; Increasing water intake during extreme heat and/or extreme dry conditions; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
Warning Sirens	Mapleton	New. City is seeking to replace the motor on their aging warning siren located at the park. Maintenance on existing is increasingly cumbersome with lack of replacement parts and continuous repairs needed. <i>Public Works, County EMA</i> (PDM, public safety funds as may be available, community grants, local general budget funds) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Mapleton	Correction to the 2020 Plan stating generator was added. Carry over. Additional generators are needed to maintain function of critical facilities during disastrous and other extreme events. <i>City Administrator, Waterworks, County EMA</i> (City funds general budget , community benefit funds, IDOT program funds, PDM funds) HIGH PRIORITY
Equipment	Mapleton	Carry over. Lift station for water plant; <i>City Water Supt</i> (City funds general budget , PDM) HIGH PRIORITY
development		
Improve existing facilities & infrastructure	Mapleton	New. City is planning installation of Well House with motor at Golf Course. Budgeted for fall 2025 at an estimated cost of \$51,000. <i>Public Works</i> (Local funds general budget , community benefits grants, other as may become available)
flow control		
refuge		
technology		
natural barriers/supports		

4. MOORHEAD

a. Profile

The city of Moorhead is located in south Woodbury County, just east of center. County Highway E54 and State Highway 183 intersect in the southern portion of Moorhead. Soldier River Cutoff runs along the southeastern city boundary. Jordan Creek is located west of the City. Several miles to the southwest is Preparation Canyon State Park.

City Governance & Community Supports

Moorhead is governed by a five (5)-person elected City Council and a Mayor. Offices in addition to the Mayor and Council include City Clerk and Fire & Rescue. Fire & Rescue services are provided to the City and surrounding area by the Moorhead Volunteer Fire Department. Monona County provides law enforcement services, and a state patrol officer is located in Moorhead.

The City of Moorhead is a member of the NFIP Program. The Municipal Code of Ordinances was last updated in 2023.

Demographics, Housing, & Economics

In 2023, Moorhead’s population grew to 263, up from 199 in 2020, and the community includes 123 households. The median household income in Moorhead is \$35,935, significantly lower than the Monona County median of \$62,944, pointing to economic challenges for many residents. Vulnerable populations make up a notable portion of the community—children under the age of five account for a small segment, while a significant number of residents are 65 or older. About 16% of the population lives below the poverty line, and over one-fifth of residents live with a disability, both figures exceeding the county and state averages. These characteristics highlight the need for supportive services and resources tailored to the town’s diverse and aging population.

<i>Community Characteristics</i>	
Population (2023)	263
Population (2020)	199

Total Households	123
Median Household Income	\$35,935
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	5	7.6%	5.6%	5.7%
65 years and older	60	22.8%	23.8%	16.0%
Below the poverty level	159	16%	11.2%	11.3%
Living with a disability	45	21.3%	13.8%	18.5%

Moorhead has a total of 123 housing units, with 116 currently occupied and just 7 vacant, reflecting a high occupancy rate. The housing stock includes three mobile homes. The vast majority of homes in the community were built before 1970, with only a small number constructed between 1970 and 1999 or after 2000. This indicates that most of Moorhead’s residential structures are older, suggesting a well-established housing base with limited recent development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	123	-
Occupied	116	94%
Vacant	7	6%
Mobile Homes	3	3%
<i>Age of Residential Structure</i>		
Built 2000 or later	2	1.6%
Built 1970 – 1999	1	0.8%
Built 1969 or earlier	125	97.7%

Leading Employers

Hosting a handful of small businesses, Moorhead does not have any large-scale employers in town. However, some businesses are integral to community function and overall wellbeing. Some key businesses are provided for reference.

United Bank of Iowa	124 Oak St
Hauganseven	

Bud's Bar & Grill	114 Oak St
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Critical Facilities

City Hall/Community Center/Library	100-102 Oak St.
Moorhead Fire & Rescue	110 Oak St.
Post Office	116 Oak St.
Office/Gift Shop	119 Oak St
Exhibition Hall	120 Oak St
Sewage Lift Station	1st St
Garage/Storage	212 1st St
Pump House	(Block 9)
Shelter House/Band Shell	(Block 21)
Ball Field & Related	

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Consistent with previous planning practices, each of Moorhead's proposed Mitigation Actions and Strategies pursued for implementation in the next five (5) years will fully consider protections to privately held assets (facilities, personal property, property in the open) and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation of those structures. Some facilities may host vulnerable populations (children, seniors, disable persons) and are therefore significant in mitigation planning. Recreation areas outside the City's jurisdiction and/or privately owned are included among hosts of vulnerable populations. Such entities as described may include the following.

Bethesda Lutheran Church	703 Pine St
Moorhead Christian Church	
<i>Outside City Limits</i>	
Savery Pond	33787 Plum Ave
Loess Hills Hideaway Cabins and Campground	33774 Plum Ave
Preparation Canyon State Park	340th St
State Patrol	31880 Prepreation

Private businesses and organizations, even when not leading employers, play an essential role in the City’s recovery efforts and communication network, and may therefore be included in this itemizing of essential or critical facilities. The list is not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

A current statement of valuation of city properties, assets, holdings has not been provided for this plan. The city will include valuations as appropriate per project should they pursue pre-disaster mitigation funds as means of defining base dollar amounts for cost-benefit analysis. Valuation for private commercial and residential properties will be included as appropriate for a given project.

b. Participation

A virtual planning meeting, facilitated by SIMPCO was held via MS Teams on November 4, 2024 with Barb Jensen, City Clerk in attendance.

c. Community Capabilities

<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code and Unsafe Buildings Ordinance • Building Permit Ordinance • Nuisance Ordinance 	<ul style="list-style-type: none"> • Residential Zoning Ordinance • Subdivision Ordinance • Trees Ordinance
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190783B
ISO Fire Rating	Class 7/7X
<i>Staff/Department</i>	
Fire Department	
<i>Non-Governmental Organizations</i>	
American Legion Post #365 (Peter A. Hansen)	
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding	

Authority to levy taxes for a specific purpose	
Fees for water, sewer, and electric services	
Ability to incur debt through:	• general obligation bonds
	• special tax bonds
	• private activities

The city participates in the NFIP program with the City Clerk serving as Floodplain Administrator. Moorhead has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication /education		
Warning Sirens	Moorhead	2020: Warning siren needs replacing. Existing prone to malfunction, in need of constant repair. Necessary in maximizing efforts to reduce repercussion from severe weather conditions. <i>City Council, County EMA</i> . (Local funds, County support funds, PDM, community benefit programs) HIGH PRIORITY
		Update. Project still under consideration, maintain in 2025 Plan.
Assessment/Study	Moorhead	Added by amendment. Still needed – Study needed to determine source/cause of sinkholes believed to be a delayed effect of extensive area flooding in 2019. City’s initial assessment revealed no visible effects of that year’s flood. By 2021, sinkholes appeared throughout town affecting roadways and sidewalks. It is expected that underwashing caused by high velocity runoff is the primary cause of the sinkholes, however a study is needed to confirm that. Included in the study is an review of solutions for implementation that would eliminate the cause and prevent recurrence. City public works, State Homeland Security and Emergency Management, County EMA, USDA, potentially IDNR, other state departments as may be appropriate. (FEMA BRIC/FMA technical assistance, USDA programs, local funds) HIGH PRIORITY.
		Update. Initial application was not funded (2023). City is carrying project into 2025 plan with the intent of continuing to pursue funds to determine feasible solution(s) to the sinkhole issue.
tools/equipment		
Generator & Related Projects	Moorhead	2020: Generators - city hall/community ctr that operates as command center as needed; Potential partnering with County to establish Command Center capacity in the event of an emergency; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Update. No action has been taken on this project due to lack of funding availability. The project is still needed and therefore will be carried over to the 2025 HMP.
Equipment	Moorhead	Implemented. Fire Department assed UTV to improve access to wild fires and other emergency needs not accessible by roadway. Project was funded through grants and local fundraising efforts.
development		

flow control		
Drainage Projects	Moorhead	AMENDMENT. 8/2023 – City is seeking to better address stormwater runoff. Sinkholes have been appearing throughout town. A study is needed to confirm cause and viable options for correction and mitigation. Council approved the amendment to include a scoping project and implementation plan, and re-adopted the Regional Hazard Mitigation Plan as amended.
Drainage Projects	Moorhead	Update: Action not implemented but still needed.
refuge		
technology		
natural barriers/supports		

d. Risk Assessment

Included for consideration in the community risk assessment is local perception of available resources and infrastructure. For the most part, perceived issues have been legitimized through Council calls for action and regulatory notifications. Community response in the survey accounted for 3 as included in the 248 compiled results and an additional 3 full paper surveys turned in after the summary concluded. Respondents and the city council have expressed concern over capacity of fire/rescue services, increasing concern over sinkhole situation on streets and sidewalks, stormwater drainage (again along streets and sidewalks), and water systems repairs.

The city is assessing implementation of a DNR-EPA necessitated project to replace galvanized pipes (containing lead) throughout its water systems network. This project is anticipated to effectively incorporate other improvements such as road surface repairs, sidewalk repairs, and stormwater drainage as a byproduct of underground pipeline replacements. For areas not undergoing construction, like surface/drainage improvements will still be needed.

Contributing Factors

An assessment of NOAA records of Storm Events between 11/01/2019 and 12/31/2024 shows 3 events specific to Moorhead and its extended planning area, with an implied effect of 16 additional events recorded for the Monona (Zone) impacting the county as a whole. Localized occurrences are provided in the following table for reference. Additional detail can be found at <https://www.ncdc.noaa.gov/stormevents/>.

.	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
MOORHEAD	7/23/2022	19:33	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
PREPARATION	4/26/2024	16:05	Tornado	EFO	0	0	0.00K	0.00K
MOORHEAD	4/26/2024	16:17	Tornado	EFO	0	0	0.00K	0.00K

Priority Hazards

Identified local priority hazards are prioritized as follows, maintaining concerns from the 2020 plan and adding Sinkholes as current highest priority. Tornado and windstorm concerns are validated by the record of recent events in and around Moorhead and Monona County.

- Sinkholes
- Tornado/Windstorm
- Severe Winter Storm
- Thunderstorm w/Hail & Lightning

Extreme fluctuations between weather conditions from extreme cold to warm are continuing to perpetuate flash flooding issues and prolonged instances of standing water where none historically occurred. Heavy flooding in 2019 seems to have caused severe underwashing of the foundations beneath street and sidewalk infrastructure. This was unnoticed until sinkholes appeared throughout town at an alarming frequency beginning in 2020-2021. The city applied for a FEMA Project Scoping grant to confirm cause and develop a course of corrective and mitigative action. The project was not funded and remains an activity in the current project list.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Moorhead	New. Improve communications of existing programs and systems as available including but not limited to: Alert Iowa, water conservation; Increasing water intake during extreme heat and/or extreme dry conditions; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
Warning Sirens	Moorhead	Carry over. City siren needs rewiring/electrical replacement. Fire Department recommends upgrade pending fundability. City Council, Fire Department, County EMA. (Local general budget funds, BRIC as available if coordinated with additional projects) MEDIUM PRIORITY.

Assessment/Study	Moorhead	Carry over. Study needed to determine source/cause of sinkholes. Included in the study is an review of solutions for implementation that would eliminate the cause and prevent recurrence. City public works, State Homeland Security and Emergency Management, County EMA, USDA, potentially IDNR, other state departments as may be appropriate. (FEMA BRIC/FMA technical assistance, USDA programs, local general budget funds) HIGH PRIORITY.
tools/equipment		
Generator & Related Projects	Moorhead	Carry over. Generator for fire station/Community Center as this facility is designated for refuge/shelter and command center in the event of an emergency. <i>Public Works, City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, BRIC, Community Benefits funds) HIGH PRIORITY
Generator & Related Projects	Moorhead	New. A DNR notification was received during routine inspection of the lagoon that the generator in place is antiquated and presumed unreliable necessitating urgent priority for replacement. Community goal is to move to attain necessary funding and implement project as soon as possible. <i>Public Works, City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, BRIC, IDNR, Community Benefits funds) HIGH PRIORITY
Equipment	Moorhead	New. City interested in acquiring UTV for general multi-departmental city use to improve access and maneuverability ranging from clean-up to pest prevention, etc. <i>Multi-departmental involvement.</i> (City funds general budget , Emergency Response funds as available, local foundation grants, fundraising) HIGH PRIORITY
development		
flow control		
Drainage Projects	Moorhead	Carry over. City is seeking options to improve stormwater drainage. Latent effects of 2019 floods resulted in underwashing of the city's sidewalks and streets, the presumed cause of sinkholes throughout town. The city did pursue a scoping grant through FEMA BRIC but was not awarded. A study to confirm/determine cause and development of an implementation plan is still needed. <i>Public Works</i> (Disaster Mitigation Funds as available, Local general budget Funds) HIGH PRIORITY
refuge		
technology		
Improve effectiveness	Moorhead	New. City is planning to increase awareness of Monona County's Alert Iowa system as effective means of communicating in-time weather events, as well as connected preparedness tools, as may be needed for residents. City Clerk, County EMA (No funds expected to be necessary beyond staff time) MEDIUM PRIORITY
natural barriers/supports		
Trees	Moorhead	New. City has removed dying/diseased trees from public rights of way as needed, but no schedule of removal or replacement is currently in place. City is interested in seeking funds to add trees back into parks, pending availability of funds, to serve as protection from extreme heat, soil stabilization/erosion control, and to serve as a wind barrier. <i>City administration</i> (City general budget funds, IDNR programs, UPS Tree Grants and similar community reforestation funds, private funds) LOW PRIORITY

5. ONAWA

a. Profile

The city of Onawa is located in the center of the west half of Monona County. State Highway 175 runs east to west, bisecting the City and intersects with Interstate 29 just west of city limits. A few miles outside of town and west of the interstate is Lewis and Clark State Park, Middle Decatur Bend State Wildlife Management Area, Blue Lake, and the Missouri River. East of the City is the Little Sioux River. More information about Onawa can be found on the city's website at www.onawa.com.

City Governance & Community Supports

The city of Onawa is governed by a six-person elected City Council and a Mayor. Offices in addition to Mayor and Council include the following.

- City Clerk
- Economic Development
- Onawa Fire Department
- Onawa Police Department
- Onawa Public Library
- Parks & Recreation
- Public Works
- Utilities

Fire and rescue services are provided to the City and surrounding communities by the Onawa Fire Department, which is staffed by volunteers. The City is able to provide its own law enforcement. Ambulance service is a full-time, paid service that is provided by Burgess Health Center.

Demographics, Housing, & Economics

CensusReporter.org shows Onawa's population as estimated for 2023 at 2,862 – a slight decrease from the decennial census estimates in 2020. The city includes 1,267 households and has a median household income of \$54,659, which is below the Monona County median of \$62,944. Onawa has a relatively young population, with a higher share of children under five compared to both county and state averages. Nearly one in five residents is 65 or older, and a significant portion of the population—458 people—live below the poverty line, indicating

ongoing economic challenges. Additionally, the same number of residents live with a disability, pointing to a need for accessible services and support within the community.

<i>Community Characteristics</i>	
Population (2023)	2,862
Population (2020)	2,906
Total Households	1,267
Median Household Income	\$54,659
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	224	7.8%	5.6%	5.7%
65 years and older	565	19.7%	23.8%	16.0%
Below the poverty level	458	16.1%	11.2%	11.3%
Living with a disability	458	16.4%	13.8%	18.5%

Onawa has a total of 1,369 housing units, with 1,273 currently occupied and 96 vacant. The community includes 14 mobile homes, making up a small portion of the housing stock. Most of the residential structures were built before 1970, reflecting an older housing base. A quarter of the homes were built between 1970 and 1999, while only a small number have been constructed since 2000. This mix indicates a predominantly established housing market with limited recent development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	1,369	-
Occupied	1,273	93%
Vacant	96	7%
Mobile Homes	14	1%
<i>Age of Residential Structure</i>		
Built 2000 or later	83	5.6%
Built 1970 – 1999	374	25.4%
Built 1969 or earlier	1,018	69.0%

Leading Employers

There are dozens of businesses within Onawa that each employ small staff. Leading employers for the City include:

- AgriVision
- Bomgaars
- Burgess Health Center
- City of Onawa
- Crossroads of Western Iowa
- Elmwood Care Center
- Fiesta Brava
- Lewis Pharmacy
- McDonalds
- Monona County
- Subway
- Sunshine Foods
- T&R Truck Stop
- Taylor’s Oil Company
- West Monona Community School District
- Westendorf Manufacturing Co.
- WIPCO Energy (& off-site Solar Field)

Critical Facilities

City Facilities

City Hall/Clerk’s Office		914 Diamond St.
Streets/Cemetery Dept & Related		1519 6th St
Fire Station/City Sup’t/Maintenance Bldg/Multi-use		1514 6th St
Onawa Fire Department		1025 9th St
Onawa Public Library		709 Iowa Ave
Water Treatment, Generator, Wells,& Related		900-904 8th St
Wastewater Treatment Plant, Main Lift Station & Related		1716 6th St
Sewer Lift Station		1229 8th St
Lift Stations	1200 1st St	142 Maple
	47 12th St	2300 S Blue Lake
22286 248th St	1111 28th St	2220 Iowa Ave
Sirens		20th & Pearl
		Iowa Ave & Diamond
Pump Houses & Equipment		8th & Jasper
		910 8th St
		916 8th St

Main Substation & Related	8th & Diamond
Electric Substation	12th & Emerald
	13th & Granite
	Between 3rd & 4th on Diamond
Water Tower	1720 Granite Pl (Hospital Grounds)
Electric Generation Station/Light Plant	1035 8th St
Storage Bldg	1503 10th St
Onawa Swimming Pools & related	200-227 12th St
Gaukel Park, Related Bldgs & Equip	14th & Gaukel Dr
<ul style="list-style-type: none"> • Blacksmith Museum • Church Museum • Depot Museum • Firehouse Museum • Log Cabin • School House Museum 	
Monona County Veterans Memorial Museum	203 N 12th St
Onawa Community Center	320 10th St
Onawa Senior Citizen Center	1017 8th St
Ropes Park & Related Equip/Shelter	1400 2nd St & Maple
Liberty Park & Related Equip/Shelter	13th & Cameo
Generator Bldg	South end of 6th St
Community Theater	910 9th St
Dog Pound & Related	1700 6th St
Skate Park & Related Equip	12th St

County Facilities (housed in Onawa)

Courthouse	610 Iowa Ave
Law Enforcement Center	909 7th St
Monona County Arboretum & Conservation Center	318 E Iowa Ave
Monona County Fairgrounds & Campgrounds	1201-1323 Gaukel Dr
Monona County Historical Museum	47 12th St

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

West Monona Middle School	1314 15th St
West Monona High School	
Lark Elementary School	611 4th
Onawa Headstart Center	307 Jasper St

Burgess Memorial Hospital & Related Facilities/Services	1600 Diamond St
Crossroads of Western Iowa	301 10th St
Dialysis Clinic Inc.	1620 Diamond St Pl
Elmwood Care Center	190 North 15th Street
Elmwood PE, LLC	190 North 15th St
Family Medicine Clinic	1614 Diamond St
Frannie's Café	Main St
Decatur Bend (SW of Onawa)	Cherry Ave & 243rd St.
Kiwanis Museum Complex	203 N 12th St
On Ur Wa RV Campgrounds	22865 Filbert Ave
Onawa Country Club	1825 235th St
Churches:	
Faith Lutheran Church	316 15th St
First Christian Church	722 15th St
St John's Catholic Church	1009 13th St
Seventh Day Adventist Church	14th Street
Evangelical Free Church	12th street
Community Christ Church	11th Street
Onawa United Methodist Church	1103 13th Street
Kingdom Hall of Jehovah's Witnesses	1006 Lucas Street
United Pentecostal Church	406 Iowa Avenue

The city is mindful of its senior housing and low-income apartment complexes whose residents

Valuation of City Assets

A current valuation of assets has not been provided for this plan. For the purpose of cost-benefit considerations, a valuation of the City's assets will be compiled based on its insured properties, personal property, and facilities, as applicable to a given project. At such time, values will also include private properties, equipment, or non-city funded investments that may contribute to project determinations or as may be affected by the project.

b. Participation

An on-site mitigation planning meeting was facilitated by SIMPCO at the Onawa Council Chambers on February 14, 2025. The following were in attendance.

- Lonnie Campbell, Mayor
- Bryan Savery, Director – Public Works
- Melissa Beerman, Director – Economic Development/Parks & Rec
- Ashley Hausman, Administrative Assistant

Additional input was collected via survey and is included for discussion. Of the 18 surveys submitted for Monona County, 10 indicated jurisdiction of residence as Onawa.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	Capital Improvement Plan
<i>Policies/Ordinances</i>	
City Code of Ordinances including:	
<ul style="list-style-type: none"> • Drainage Ordinance • Floodplain Ordinance • Historic Preservation Ordinance • Nuisance Ordinance 	<ul style="list-style-type: none"> • Storm Water Ordinance • Subdivision Ordinance • Tree Trimming Ordinance
Zoning Ordinance	Building Code
<i>Programs</i>	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Participant	CID #190463
ISO Fire Rating: Class 4/4Y, eff. 9/1/2014	Tree Trimming Program
Planning/Zoning Board	Zoning/Land Use Restrictions
<i>Staff/Department</i>	
Building Code Official (Permit review)	Public Works Official
Building Inspector (State officer)	
Emergency Response	Onawa FD
	EMS

	Burgess Ambulance
	County Sheriff's Dept (contracted)
<i>Non-Governmental Organizations</i>	
American Legion Post #129 (David McNeill)	
Chamber of Commerce	
Kiwanis	
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
TIF funding allocations as appropriated	
Authority to levy taxes for a specific purpose	
Fees for water, sewer, & electric services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

The city participates in the NFIP program with the Zoning Administrator serving as Floodplain Administrator. Onawa has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
Generator & Related Projects	Onawa	2020: Additional generators; <i>City Administrator, Waterworks, County EMA</i> (City funds, community benefit funds, IDOT program funds, PDM funds) HIGH PRIORITY
		<p>Update: Some generator work has been completed, replacing generators at 3 sites (Fire Station, Electric Building, and Waterworks) and one new generator installed at Sewer Plant. A generator is also onsite at the hospital.</p> <p>The community center is still in need of a generator. This will be carried over to the 2025 HM project list.</p>
Equipment	Onawa	2020: Snow removal equipment; <i>City Streets Dept</i> (City funds, transportation funds) LOW PRIORITY
		In progress. A newer plow truck is added to the budget for 2026.
Equipment	Onawa	2020: Pump with greater than 6" capacity – function @ 1,000 gallon per minute; <i>City Administrator</i> (City funds, PDM) HIGH PRIORITY

		Update. Action not taken. Portable pump is still needed and carries over to the 2025 HMP with modified priority level.
Equipment	Onawa	2020: Boat; <i>City Administrator, Fire Chief collaboration</i> (City Funds, Response support funds, PDM) LOW PRIORITY
Equipment	Onawa	Project closed. Action not taken. FD has not indicated dire need for new rescue boat Project removed from priority list.
development		
Bridges & Roads	Onawa	2020: Resurfacing projects that will address drainage issues and minimize the effects of inclement weather-caused deterioration. <i>City Streets Dept, collaborate with County Roads</i> (City funds, Community Benefit funds, Transportation funds) HIGH PRIORITY
		Update. No resurfacing projects have been completed. Patchwork is implemented as needed. Current projects anticipated at \$50,000 are set to begin in 2025. Full resurfacing is still needed and carries into the 2025 HMP.
Policy	Onawa	2020: Review/revision of subdivision regulations to address runoff concerns resulting from displacement; <i>City Council, Zoning Commission, City Attorney</i> (Local funds) MEDIUM PRIORITY
		Update. No action taken on this item. Needs have been clarified, necessitating the inclusion of water diversion in plans. Formalizing discussed recommendations to subdivision plans is carried over to the 2025 HMP, with elevated priority.
flow control		
refuge		
technology		
natural barriers/ supports		

Onawa added a generator to the Electric Shop, a \$17,000 project financed through local funds. A comprehensive Plan is in progress, with adoption anticipated prior to Fall 2025. Onawa has spent about \$10,000 per year mitigating dead/diseased trees. It is not at present a pressing issue.

d. Risk Assessment

Contributing Factors

An assessment of the NOAA Storm Event database provided two reports specific to Onawa and 41 attributed to the county overall.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
ONAWA	7/9/2021	0:09	Hail	1.50 in.	0	0	0.00K	0.00K
ONAWA	6/12/2024	18:31	Hail	3.50 in.	0	0	0.00K	0.00K

Priority Hazards

- Flooding
- Tornado / Windstorm
- Thunderstorm with Hail & Lightning

Drought, Extreme Heat, and Severe Winter Weather were included in the discussion. Survey respondents indicated Drought with the highest frequency of Very Concerned, followed by Infrastructure Failure and Tornado/Windstorm. When asked to indicate top three concerns, respondents chose Drought (6/10), Tornado/Windstorm (4/10), and Thunderstorm with Hail and Lightning (3/10).

By [Kathryn Vlaanderen](#)

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UPDATE:

ONAWA, IA (KTIV) - According to the Iowa State Patrol, James M. Ball was heading east on Emerald Avenue in an SUV when he stopped and failed to yield the right of way for an inbound train. The train then struck the passenger side of the vehicle where it then ended up in a ditch.

Ball was taken to MercyOne Medical Center in Sioux City for treatment.

<https://www.ktiv.com/2024/03/01/car-vs-train-collision-onawa-iowa/> June 10, 2025

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Onawa	New. Improve communications of existing programs and systems as available including but not limited to Alert Iowa, Water conservation; Increasing water intake during extreme heat and/or extreme dry conditions; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Onawa	Carry over. Generators needed for Community Center and Nursing Home. <i>City Administrator, Waterworks, County EMA</i> (City – general fund, community benefit funds, IDOT program funds, PDM funds) HIGH PRIORITY
Equipment	Onawa	Carry over. A newer plow truck is added to the budget for 2026. Additional equipment is still needed. Snow removal equipment; <i>City</i>

		<i>Streets Dept</i> (City funds general budget , transportation funds) LOW PRIORITY
Equipment	Onawa	Carry over. Portable pump with greater than 6" capacity – function @ 1,000 gallon per minute; City Administrator, Public Works, potential for county collaboration (City funds general budget , PDM) LOW PRIORITY
Safety/Security Equipment	Onawa	New. City is considering installing cameras in city buildings and parks. Recent bids estimate project cost at \$20,000+. Cameras would contribute to monitoring conditions in and potentially contributing to emergency situations. <i>City administrator, Parks Dept., Response teams</i> (City general budget funds, community benefits, public safety grants as may be available) HIGH PRIORITY
development		
Improve existing facilities & infrastructure	Onawa	New. Water Treatment Plant is planned. Estimated at \$17M, the new plant. <i>Public Works, USDA, IDNR</i> (Local funds- annual budget item , Bonds, Grants TBD) HIGH PRIORITY
Improve existing facilities & infrastructure	Onawa	New. Updates to the Electrical Substation are in discussion Repair costs are currently at \$100,000 mark. Project would include assessment of options including but not limited to replacement and/or repair of various components. <i>City council, Public Works</i> (local funds – general budget , others to be determined pending project scope) HIGH PRIORITY
Bridges & Roads	Onawa	Carry over. Resurfacing projects that will address drainage issues and minimize the effects of inclement weather-caused deterioration. <i>City Streets Dept, collaborate with County Roads</i> (City general budget funds, Community Benefit funds, Transportation funds, Disaster funds as may apply, PDM as applicable) HIGH PRIORITY
Policy	Onawa	Carry over. Review and formal revision of subdivision regulations to address runoff concerns resulting from displacement. <i>City Council, Zoning Commission, City Attorney</i> (Local general budget funds) HIGH PRIORITY
flow control		
refuge		
technology		
natural barriers/supports		

Other actions in consideration over the next five years include but are not limited to the following.

- Consideration of annexation potential to align with bike trail connections/expansion opportunities.
- Provide support for projects as may be brought forward by County Sheriff’s department to enhance/improve contracted services capacity for participating communities.

6. RODNEY

a. Profile

The city of Rodney is located near the center of Monona County’s northern border. County Highway L12 runs from the southwest to the northeast of the City, with most commercial and residential structures located southeast of the highway. Just outside city limits to the southeast is the Rodney Pits Recreation Area. Southeast of that is the Little Sioux River.

City Governance & Community Supports

Rodney is governed by a Mayor, City Council, and City Clerk. The city does not have its own fire, police, or ambulance services, and must rely on nearby communities and related contracted services. The City is a member of the NFIP program.

Demographics, Housing, & Economics

CensusReporter.org estimates Rodney’s population at 48 in 2023²³, showing a slight increase from 45 residents in 2020. The town includes 29 households, with a median household income of \$52,188—lower than the Monona County median of \$62,944. While Rodney does not currently have any residents under the age of five, about one-fifth of the population is 65 or older. The town has a very low poverty rate, with just one resident living below the poverty line. However, a significant portion of the community lives with a disability, suggesting a need for accessible services and support within this small population.

<i>Community Characteristics</i>	
Population (2023)	48
Population (2020)	45
Total Households	29
Median Household Income	\$52,188
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	0	0.0%	5.6%	5.7%

²³ Source: <https://censusreporter.org/profiles/16000US1968385-rodney-ia/>

65 years and older	10	21%	23.8%	16.0%
Below the poverty level	1	2.1%	11.2%	11.3%
Living with a disability	15	30.0%	13.8%	18.5%

Rodney has a total of 21 housing units, all of which are currently occupied, leaving no vacant homes in the community. Mobile homes make up a notable portion of the housing stock, with seven in total. The majority of homes were built before 1970, while a smaller number were constructed between 1970 and 1999, and a few have been built since 2000. This mix of older and more recent construction reflects a small but stable housing environment with a high occupancy rate.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	21	
Occupied	21	100.0%
Vacant	0	0.0%
Mobile Homes	7	33%
<i>Age of Residential Structure</i>		
Built 2000 or later	4	13.8%
Built 1970 – 1999	10	34.5%
Built 1969 or earlier	15	51.7%

Local record based on utility billings shows 28 homes/businesses. There are five occupied mobile homes at present. More demographic and community data can be found on the US Census Bureau data site for Rodney.

Leading Employers

Most residents work outside of Rodney. However, the local grain elevator (Koster Grain), Hamann Trucking, and Hamann & Sons are prominent businesses operating in Rodney.

Critical Facilities, Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

The nature of Rodney as a community necessitates an overlap of public and private entities serving as critical community facilities and gathering places.

The City Garage, City Park, and Community Center are the only listed assets as provided by city representatives in the compilation of this plan.

In addition to City-owned properties, facilities and personal property, each of Rodney's proposed Mitigation Actions and Strategies pursued/considered for implementation in the next five (5) years will take into account protections to privately owned assets and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation those structures. Those entities are as follows.

- The United Church of Christ (County Highway L12 and Oak Avenue) and
- County-maintained Rodney Recreational Pit area, which falls outside city limits but still within the general scope of concern for the City.

Private businesses and organizations play an essential role in the City's recovery efforts and communication network. As such, they categorized as essential or critical facilities. The list above is not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

A valuation of city holdings is not readily available. A summary of values will accompany the cost-benefit analysis for proposed projects including city and private properties as may be impacted by project implementation(s).

b. Participation

A planning meeting facilitated by SIMPCO was held in Rodney’s community center on October 10, 2024 with Mayor Shawn Hamann and City Clerk Marilyn Hamann in attendance. One survey was returned indicating Rodney as jurisdiction of residence.

c. Community Capabilities

The City of Rodney is historically a small community. Recent census totals show a decrease in population of about 25%, further reducing its already negligible operating budget. Fiscal constraints prohibit opportunity to invest in maintenance and other improvements, minimizing loan availability and therefore capacity for local match. Making do with its resources, the City does have the following in place to supplement resources as available within the county and region.

<i>Policies/Ordinance</i>	
• Nuisance Ordinance	
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190921B
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Authority to levy taxes for a specific purpose	
Fees for water, sewer, and electric services	

The city participates in the NFIP program with the Mayor serving as Floodplain Administrator. Rodney has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
development		
Bridges & Roads	Rodney	Moved to Drainage Projects section under “Flow Control” 2020: Interest in roadway drainage improvements; <i>City Council</i> (City funds, transportation funds, Community Benefit funds) LOW PRIORITY
flow control		

Drainage Projects	Rodney	Pulled from “Bridges & Roads” category.
		2020: Interest in roadway drainage improvements; <i>City Council</i> (City funds, transportation funds, Community Benefit funds) LOW PRIORITY
		Update: Some work has been done on 1st, 2nd, 3rd, and Main Streets.
refuge		
technology		
Improve effectiveness	Rodney	2020: Promote available weather alert subscription services such as Alert Iowa and storm-spotter training as available. <i>City Clerk</i> (no cost anticipated) HIGH PRIORITY
		Update: No action specific was taken on this project, however staff would like to revisit available opportunities and share with residents
Improve effectiveness	Rodney	2020: Improved communication w/County re: warning siren test schedule; <i>City administration, County EMA</i> (no cost anticipated) HIGH PRIORITY
Improve effectiveness	Rodney	Implemented. Siren was fixed in 2021 and testing is uniformly conducted on a routine schedule.
natural barriers/supports		
Trees	Rodney	2020: Funding support to sustain/improve tree population; <i>City administration</i> (City funds, IDNR programs, UPS Tree Grants and similar community reforestation funds, private funds) LOW PRIORITY
		Update: No action has been taken due to lack of available funds (including local match). Community will continue to seek funding opportunities to re-substantiate its tree population.

d. Risk Assessment

Contributing Factors

The annual budget is supplemented by donations and community grant requests for even minimum maintenance of city facilities and properties. Low/no cost options are ones the City is able to entertain at present. Because routine maintenance is not always in the budget, small issues— such as potholes or cracks in the road, escalate and/or compound other concerns.

Rodney city limits do not include floodplain so flooding concerns are directly related to periods of heavy rain and resulting runoff, especially when ground is frozen or already saturated. Consequently, road deterioration is accelerating. Road repair projects are needed but not currently realistic due to budget constraints.

Following are some considerations carried over from the previous plan affecting the community’s resilience.

- City representatives would like to establish a clear line of communication with the County regarding its warning siren test schedule. Sporadic testing reduces effectiveness of alerts during an actual weather event.
- The City would benefit from resident participation in storm-spotter training to improve local awareness measures.

The National Weather Service warned this is life threatening for the communities of Smithland and Rodney.

The Monona County Sheriff's Office reported the town of Rodney was evacuated as of 7:30 a.m. Town roads are closed off to the public. The sheriff's office urges people avoid the area for their safety.

Water also broke through the levee near the town of Ticonic, according to the sheriff's office.

www.ketv.com/article/levee-failure-in-northwest-iowa-causes-life-threatening-flash-flooding

by Amsley Benes, KETV Omaha. Updated: 12:22 PM CDT Jun 25, 2024. (June 9, 2025)

An assessment of NOAA Storm Events as recorded includes one event specific to Rodney between 11/01/2019 and 12/31/2024 (source: <https://www.ncdc.noaa.gov/stormevents/>; see following table). Also for consideration are 16 Monona “Zone” events as impactful county-wide. Most larger scale events are related to severe winter weather conditions. Two were categorized as excessive heat and one was high wind.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
RODNEY	6/25/2024	3:56	Flash Flood		0	0	100.00K	100.00K

Priority Hazards

One survey of 18 received for Monona County indicated Rodney as residence. Indications in that survey as well as discussion with city representatives find the following to be priority hazards.

Cost-related concerns

- Flash Flood
- Severe Winter Weather

Other conditions posing threat to the community

- Drought
- Grass and Wildland Fire
- Tornado/Windstorm

e. Mitigation Needs, Actions, & Strategies

Again citing fiscal constraints, projects identified for Rodney are primarily no- or low-cost options, or are expected to be eligible for grant funding where applicable. Without immediately viable funding sources, most projects are identified as low priority.

communication/education		
Promo/Info	Rodney	New. Improve communications of existing programs and systems as available including but not limited to Increasing water intake during extreme heat and/or extreme dry conditions; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. City Clerk, County EMA (no funds needed) HIGH PRIORITY
tools/equipment		
development		
Policy	Rodney	New. Interest in update Municipal Code of Ordinances, pending funding opportunities. <i>City, Contracted services</i> (local general budget funds, community betterment grants, public safety/wellness grants) LOW PRIORITY
flow control		
Drainage Projects	Rodney	Carry over. Remaining streets throughout town still need work to improve drainage and drainage paths. Project is carried to 2025 HMP. <i>City Council</i> (City funds, transportation funds, Community Benefit funds) LOW PRIORITY
refuge		
technology		

Improve effectiveness	Rodney	Carry over. Promote available weather alert subscription services such as Alert Iowa and storm-spotter training as available. <i>City Clerk, Council, County EMA</i> (no cost anticipated) HIGH PRIORITY
natural barriers/supports		
Trees	Rodney	Carry over. Community will continue to seek funding opportunities to re-substantiate its tree population. Funding support to sustain/improve tree population. <i>City administration</i> (City general budget funds, IDNR programs, UPS Tree Grants and similar community reforestation funds, private funds) LOW PRIORITY

7. SOLDIER

a. Profile

The city of Soldier is located near the center of the southeast quarter of Monona County. State Highways 37 and 183 intersect just south of the center of city limits; most commercial and residential structures are located northwest of this intersection. The city is situated west of the Soldier River cutoff. Oldham Recreation Area is a few miles north of Soldier.

City Governance & Community Supports

Soldier is governed by a five-person elected City Council and a Mayor. Offices in addition to the Mayor and Council include City Clerk and Public Works. The city does not have a police department and relies on the County Sheriff’s office to provide law enforcement services. Fire services are provided by the Soldier Fire Department, which is staffed by volunteers. Ambulance services to Soldier are provided through Moorhead’s Volunteer Ambulance Service.

Demographics, Housing, & Economics

CensusReporter.org estimates for 2023²⁴ show Soldier’s population at 123, a relatively significant decline from 184 residents as noted in the 2020 decennial census. The community is home to 65 households, with a median household income of \$49,375, which is lower than the Monona County median of \$62,944. A notable portion of Soldier’s population is 65 or older, making up 33% of the community, well above both the county and state averages. The town also has a relatively low number of young children, with only 1.6% of residents aged five or younger. The poverty rate in Soldier is higher than the county and state averages, with 18.7% of residents living below the poverty line. Additionally, about 13.2% of the population lives with a

²⁴ Source: <https://censusreporter.org/profiles/16000US1973785-soldier-ia/>

disability, reflecting a need for accessible services and support for vulnerable groups within the community.

<i>Community Characteristics</i>	
Population (2023)	123
Population (2020)	184
Total Households	65
Median Household Income	\$49,375
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	2	1.6%	5.6%	5.7%
65 years and older	41	33%	23.8%	16.0%
Below the poverty level	22	18.7%	11.2%	11.3%
Living with a disability	29	13.2%	13.8%	18.5%

Soldier has a total of 77 housing units, with 65 currently occupied and 12 vacant, resulting in an occupancy rate of 84%. The community does not have any mobile homes within its housing stock. The majority of homes were built before 1970, with a smaller number constructed between 1970 and 1999. There are no residential structures built since 2000, reflecting an older housing market with limited recent development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	77	-
Occupied	65	84%
Vacant	12	16%
Mobile Homes	0	0
<i>Age of Residential Structure</i>		
Built 2000 or later	0	0.0%
Built 1970 – 1999	30	24.6%
Build 1969 or earlier	92	75.4%

Leading Employers

- Community Bank
- Soldier Speedy Shop
- Cogdill's Grain Elevator
- Monona Co Secondary Roads Shed

Critical Facilities

City Hall/Library	108 Oak St,
Fire Department	210 IA-37
City Park (picnic shelter, playground)	200 block of Elm St
Campgrounds	
Community Building	113 1st St
Water Tower	Main St
Water Treatment (3 lagoons)	East of Co Shed
	SE Corner of Town
City Well	
Veteran's Memorial	

The city updated the playground equipment at the park and added mulch. Project was completed using local funds, a Gilchrist grant, and fundraising. The vendor offered a discount as an in-kind contribution. Equipment as added was chosen with weather extremes in mind, providing safe structures that include shade and promote physical activity for local families.

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Each of Soldier's proposed Mitigation Actions and Strategies pursued for implementation in the next five (5) years will fully consider protections to privately held assets (facilities, personal property, property in the open) and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation of those structures. Some facilities may host vulnerable populations (children, seniors, disable persons) and are therefore significant in mitigation planning. Recreation areas

outside the City’s jurisdiction and/or privately owned are included among hosts of vulnerable populations. Such entities as described may include the following.

Midway Tavern	206 1st St
Sheri's Book Treasures	208 1st St
Soldier Lutheran Church	223 Lark Street
Low Income housing (12 units)	1st St

Private businesses and organizations play an essential role in the city’s recovery efforts and communication network, and are therefore included in this itemizing of essential or critical facilities. The list is not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

Building	\$	1,498,182
Personal Property	\$	93,996
Property in the Open	\$	<u>285,511</u>
Total	\$	<u>4,100,912</u>

b. Participation

Facilitated by SIMPCO, a mitigation planning meeting was held on site at Soldier City Hall on February 19, 2025 with Melanie Mc Andrews, City Clerk in attendance.

c. Community Capabilities

<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> Nuisance Ordinance Storm Water Ordinance Subdivision Ordinance 	<ul style="list-style-type: none"> Tree Trimming Ordinance Zoning Ordinance
<i>Programs</i>	

National Flood Insurance Program (NFIP) Participant	CID #190805B
ISO Fire Rating	Class 07
Tree Trimming Program	As outlined in Trees Ordinance
<i>Staff/Department</i>	
Emergency Response Team	Volunteer Fire Department
<i>Non-Governmental Organizations</i>	
American Legion Post #462 (Soldier Valley)	
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water and sewer services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

The city participates in the NFIP program with the City Clerk serving as Floodplain Administrator. Soldier has zero RL/SRL properties.

At the time of Soldier’s mitigation planning meeting, their municipal code update was in progress with completion in 2026.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
development		
Improve existing facilities & infrastructure	Soldier	2020: Improve waterworks-related infrastructure to better sustain extreme weather conditions and extremes in temperatures resulting in damages from frost and heave activity. Specific attention to water tower and waterlines throughout City. <i>City Council, City maintenance/waterworks.</i> (Local funds, CDBG funds, approved loan opportunities) HIGH PRIORITY
Improve existing facilities & infrastructure	Soldier	In progress - The city has completed phase I of its \$3.2M water tower replacement project, with expectation of going live fall 2025. Remaining aspects are carried into 2025 plan.
Bridges & Roads	Soldier	2020: Road construction improvements needed to address buckling and weather-related deterioration. Specifically needed on road serving access to Ute. Additional throughout City. <i>City Council, Streets department,</i>

		<i>collaboration with County Roads dept & City of Ute as applicable. (Local funds, transportation funds, approved bonding and local programs) HIGH PRIORITY</i>
Bridges & Roads	Soldier	Update. Phase I of the project has been completed. Scheduled improvements will continue through Spring and Fall on a rotating basis through 2030. Process will start over with overlay. At this time, this project will be removed from the priority list with mitigative actions met. The city may amend project back in if underwashing and runoff become prohibitive to routine maintenance, requiring more developed remediation.
flow control		
refuge		
technology		
natural barriers/supports		

The city completed well reconstruction with an added flood barrier. There are not immediate washout/underwashing concerns for the city. Soldier replaced 3 fire hydrants using COVID funds at the approximate cost of \$5000 each. They also looped the water system, improving circulation. This activity may have improved Soldier’s ISO fire rating but the numbers were not readily available.

Soldier has conducted removal of dead/diseased trees on an annual basis. Every other year, the city applies with Trees Please program to support re-treeing efforts.

d. Risk Assessment

Contributing Factors

A review of the NOAA Storm Event database for 11/01/2019 through 12/31/2024 provides two reports specific to Soldier.

<i>Location</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Mag</i>	<i>Dth</i>	<i>Inj</i>	<i>PrD</i>	<i>CrD</i>
SOLDIER	7/11/2022	2:15	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
SOLDIER	4/26/2024	16:23	Tornado	EF1	0	0	0.00K	0.00K

With Soldier River running along the eastern and southern boundaries of the city, Soldier is fortunate to have a hilly topography, protecting its critical facilities from potential flood

damage for many types of events. On the other hand, the terrain does, unfortunately contribute to runoff-related issues affecting drainage needs and maintenance.

Priority Hazards

- Tornado/Windstorm
- Thunderstorm w/Hail & Lightning
- Sever Winter Storm

Discussion included drought concerns as well.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Soldier	New. Improve communications of existing programs and systems as available including but not limited to: Alert Iowa, Increasing water intake during extreme heat and/or extreme dry conditions; Water conservation; Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. <i>City Clerk, County EMA</i> (no funds needed) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Soldier	New. City is interested in having dedicated generator for critical facilities. City Council, Public Works (Local funds general budget , PDM as available, community benefit grants, public safety funds as may be available) HIGH PRIORITY.
development		
Improve existing facilities & infrastructure	Soldier	Carry over. Completion of waterworks-related infrastructure improvements are in progress, allowing infrastructure to better sustain extreme weather conditions and extremes in temperatures that would otherwise result in damages from frost and heave activity. Specific attention to water tower and waterlines throughout City. Project is in progress - The city with phase I of its \$3.2M water tower replacement project completed. Expectation of going live fall 2025. Related and closing tasks carry over. <i>City Council, City maintenance/waterworks.</i> (Local funds, CDBG funds, approved loan opportunities) HIGH PRIORITYI.
Improve existing facilities & infrastructure	Soldier	New. The city is seeking upgrade opportunities for its lagoon system and related lines. Established in the 1970s, it has been 32 years since the last discharge. They've undergone a preliminary engineering report and televised lines. 3-cell lagoon but only one has been used. Looking at using all 3 for treatment / discharge. <i>Public works, DNR</i> (CDBG, USDA RD, local general budget funds) HIGH PRIORITY

Improve existing facilities & infrastructure	Soldier	New. Updated meters for the city’s waterworks are warranted as means of improving monitoring and determining leakage or other flow problems, maintenance needs. Cost estimated at \$1.5M. <i>Public works, IDNR as may be applicable</i> (local general budget funds, go bonds, CDBG, USDA as available) HIHG PRIORITY
Improve existing facilities & infrastructure	Soldier	New. City is planning to put in a new pump house. <i>Public works</i> (USDA, IDNR as applicable, local general budget funds) HIGH PRIORITY
flow control		
refuge		
technology		
natural barriers/supports		

8. TURIN

Findings: The city participated in the development of the Regional Hazard Mitigation Plan, however, they have not included any specified mitigation actions, strategies, or projects. Therefore, the City of Turin is not recognized as an active “Participant” in the Plan. To activate participant status, the city must process an amendment at the local level and file said amendment with Monona County and FEMA. Procedures to amend this plan are included in Title I. Introduction, section H. Amendments and Plan Maintenance.

a. Profile

The City of Turin is located near the center of Monona County. The majority of the City is located north of IA-175. East of city limits, this highway intersects with highway IA-37. Turin is situated between the Little Sioux River to the west and the Maple River to the east. Davis Wetland and Turin Preserve are located north of city limits.

City Governance & Community Supports

Turin is governed by a Mayor, City Council, and City Clerk. The city does not have its own fire, police, or ambulance services, and must rely on nearby communities.

Demographics, Housing, & Economics

Using the Census Reporter at <https://censusreporter.org/>, Turin recorded a population of 68 in 2023, a slight decrease from 72 residents in 2020. The town has 55 households, and its median household income is \$91,602, significantly higher than the Monona County median of \$62,944. Turin has a small percentage of young children, with only one resident aged five or younger. A quarter of the population is 65 or older, which is slightly above the county's average. Notably, none of the residents live below the poverty line, and only a small portion—4.1%—live with a disability, which is lower than both the county and state averages. This suggests that Turin has a relatively stable and prosperous population, with fewer vulnerable groups compared to surrounding areas.

<i>Community Characteristics</i>	
Population (2023)	68
Population (2020)	72
Total Households	55
Median Household Income	\$91,602
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	1	.8%	5.6%	5.7%
65 years and older	16	25.0%	23.8%	16.0%
Below the poverty level	0	0%	11.2%	11.3%
Living with a disability	5	4.1%	13.8%	18.5%

Turin has a total of 55 housing units, all of which are currently occupied, with no vacant homes in the community. There are no mobile homes in the area. The majority of the residential structures were built before 1970, reflecting an older housing base. A small number of homes were constructed between 1970 and 1999, and a few homes were built after 2000, indicating a predominately established housing market with limited recent development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	55	
Occupied	55	100.0%

Vacant	0	0.0%
Mobile Homes	0	0.0%

<i>Age of Residential Structure</i>	<i>Count</i>	<i>Percent</i>
Built 2000 or later	23	5.9%
Built 1970 – 1999	2	5.9%
Build 1969 or earlier	30	88.2%

More demographic and community data can be found on the U.S. Census webpage for Turin (source: <https://data.census.gov/>).

Leading Employers

There are no large-scale employers within the City of Turin. Although a couple businesses employ a small staff, most employed residents work outside of town.

- Second Turin
- New Co-op

Critical Facilities

Community Building	115 Wolfe St
City Park	
City Well	
Maintenance Shed, Mower storage (shared property w/County)	
Well & Pump Station	btw IA-175 & Elm

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Private businesses and organizations play an essential role in the City’s recovery efforts and communication network and may be categorized as essential or critical facilities. The following list is not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

- Turin United Methodist Church, 219 Wolfe Street

Valuation of City Assets

A comprehensive valuation of city assets has not been provided. Should Turin pursue any mitigation projects identified herein, the project preparation (and application if needed) will include a relative cost-benefit analysis incorporating affected city assets as well as private properties within the area of potential impact.

b. Participation

Facilitated by SIMPCO, an onsite planning meeting was held at Turin City Hall December 11, 2024 with Cinda Orr, City Clerk and Tony Orr, Councilmember in attendance. A Voluntary Participation Agreement, signed by Turin Mayor David Poole, 12/11/2024, is on file.

c. Community Capabilities

In addition to county, region, and state resources, Turin has implemented local supports to enable community resiliency. **The city participates in the NFIP program with the Mayor serving as Floodplain Administrator. They have zero RL/SRL properties.**

<i>Policies/Ordinance – 2010</i>	
• Building Code	• Nuisance Ordinance
• Floodplain Ordinance	• Tree Trimming Ordinance
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190951B
<i>Staff/Department</i>	
Fire & Rescue	Coordinated services through Castana; Onawa
EMS	Coordinated services through Onawa Ambulance; Mapleton Ambulance
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Ability to incur debt through	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds

- private activities

Review of Actions Taken (Since 2019)

communication /education		
Warning Sirens	Turin	2020: City needs to install 2 nd warning siren to increase alert capacity during severe weather conditions. <i>City Council, County EMA.</i> (Local funds, County supports, PDM) HIGH PRIORITY
Warning Sirens	Turin	Completed. Second warning siren was added to increase awareness of pending severe weather. Hill served as barrier to single siren effectiveness for all residents.
tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/ supports		

d. Risk Assessment

Contributing Factors

A second warning siren was added to the area better serving the other side of town where hilly terrain reduced the effect of a single siren. Among activities completed by Turin in recent years, some dead and diseased trees have been removed from public rights of way as a mode of damage prevention. Additional trees were trimmed as required with a change in insurance coverage.

An assessment of NOAA's Storm Event database between 11/01/2019 and 12/31/2024 provided the following event specific to Turin.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
TURIN	4/19/2023	17:10	Hail	1.00 in.	0	0	0.00K	0.00K

Turin also experienced effects of 16 events categorized under Monona "Zone".

Priority Hazards

None of the survey responses from Monona County indicated a Turin residence. Based on cost of response and potential effect on residents, the city finds the following to be of priority concern.

- Sever Winter Storm
- Tornado/Windstorm
- Drought

e. Mitigation Needs, Actions, & Strategies

It is necessary to note that the City of Turin has participated in the development of this Plan. However, as the City has not identified a specific action, strategy, or project, an amendment must be filed for FEMA and the Iowa Department of Homeland Security to formally recognize this jurisdiction as an eligible applicant for pre-disaster mitigation funds.

9. UTE

a. Profile

The city of Ute is located near the center of the eastern boundary of Monona County. State Highways 141 and 183 intersect near the center of town. Just outside city limits to the southwest, East Soldier River splits. These two cutoffs flow west and south of the City. Rock Creek is located south of Ute. More information can be found on the City of Ute website at <http://cityofute.com/>.

City Governance & Community Supports

Ute is governed by a five (5)-person elected City Council and Mayor. The Mayor appoints a Mayor Pro-Tem. Offices in addition to the Mayor and Council include City Clerk, City Attorney, Fire Department, and Utilities. The City is also supported by several boards and committees including: Planning and Zoning Committee, Board of Adjustment Committee, and Library Board. Fire and Rescue services are provided by the Ute Fire Department, which is staffed by

volunteers. Ute Volunteer Ambulance provides vital services to the city and surrounding area. Monona County Sheriff provides law enforcement services.

In recent years, the city has increased staffed positions to include a deputy clerk and an assistant serving under Streets and Parks.

The city of Ute is not a member of the NFIP program. An update to the city’s Municipal Code of Ordinances is in progress at the time of meeting. The Comprehensive Plan was adopted in 2018.

Demographics, Housing, & Economics

Record of demographic information as presented here is sourced via the Census Reporter at <https://censusreporter.org/> unless otherwise noted.

As estimated in the Census Reporter, Ute’s population in 2024 was estimated at 326, a decrease from 342 residents in 2020. Local accounting estimates population at 350-355 persons. The town is home to 171 households, with a median household income of \$55,947, which is below the Monona County median of \$62,944. Ute has a relatively high proportion of elderly residents, with 21.1% aged 65 or older, which is slightly below the county average. The town also has a significant portion of its population (12.5%) living below the poverty line. Additionally, 23.6% of residents live with a disability, which is notably higher than both the county and state averages, indicating a greater need for services and support for vulnerable groups within the community.

<i>Community Characteristics</i>	
Population (2024)	326
Population (2020)	342
Total Households	171
Median Household Income	\$55,947
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	22	6.3%	5.6%	5.7%
65 years and older	74	21.1%	23.8%	16.0%

Below the poverty level	42	12.5%	11.2%	11.3%
Living with a disability	83	23.6%	13.8%	18.5%

Ute has a total of 203 housing units, with 84% currently occupied and 16% vacant. There are no mobile homes in the community. The majority of residential structures in Ute were built before 1970, making up nearly 70% of the housing stock. A smaller portion of homes were constructed between 1970 and 1999, while only a few were built after 2000, indicating an older housing base with limited recent development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total housing units	203	-
Occupied units	171	84%
Vacant units	32	16%
Mobile Homes	0	0%
<i>Age of residential structure</i>		
Built 2000 or later	7	3.0%
Built 1970 – 1999	66	27.8%
Build 1969 or earlier	164	69.2%

More demographic and community data can be found at <https://data.census.gov/>.

Leading Employers

The city of Ute hosts dozens of small businesses with varying numbers of employees. Many have substantial local significance – serving as gathering places and/or contributing to the overall function and wellbeing of City operations. Included for consideration are the following.

- Ada J Steakhouse
- Ampride 2
- Community Bank
- New Co-op
- Spare Time
- Ute Tire & Automotive
- Valley Ag

Critical Facilities

City Hall/Public Library	130 Main St
Fire Department/Ambulance Services	141 E Main
Post Office	100 E Main St
City Park & Related Equipment/Structures	422 E Main St
Water Tower	101 S Day Ave
Treatment Plant & Various; Pump House, etc.; Public Restroom	E 7th St
Gazebo	121 E Main
Ute Community Bldg	313 S Monona Ave
Ute Senior Center	107 W Main St
Lift Stations	230 E 7th
	626 S Smith Ave
	210 E 7th St

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

In regard to Ute's valuation of assets and valuation of privately owned properties, facilities and personal property, each of Ute's proposed Mitigation Actions and Strategies pursued for implementation in the next five (5) years will fully consider protections to those assets and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation those structures. Those entities are listed in the following table for reference.

St Paul's Lutheran Church	303 E 4th St
Ute Housing Complex	300 S Riddle
Ute VFW	115 W Main

Private businesses and organizations play an essential role in the City's recovery efforts and communication network and could be categorized as essential/critical facilities. The above lists are not exhaustive. Additional community churches and individuals, as well as those in nearby communities, work together to ensure communication and support in times of crisis.

Valuation of City Assets

Using Ute’s current insurance valuation statement, an estimated base for cost-benefit analysis impacting all city properties is determined using dollar amounts as provided noting Actual Cash Value (ACV) and Replacement Cost (RC) as applicable. Values as provided do not include private properties, equipment, or non-city funded investments that may contribute to project determinations. Separately catalogued assets and equipment as may be used in the event of an emergency are not represented in this value but will accompany project specifications should funding ops be pursued.

Total Building	\$	413,246	ACV
	\$	2,796,663	RC
Personal Property	\$	608,796	RC
Property in the Open	\$	789,313	ACV
		<u>871,548</u>	<u>RC</u>
Total	\$	<u>8,702,899</u>	

b. Participation

A planning meeting was held at Ute City Hall on September 3, 2024. Facilitated by SIMPCO, the following city representatives were in attendance.

- Megan Peitsch, City Clerk
- Jim Henschen, Mayor
- Lonnie Carlson, Public Works

Further public input was sought with the city encouraging residents to complete the survey. No survey respondents indicated Ute as place of residence.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	Strategic Plan in place to guide economic dev & community growth
<i>Policies/Ordinance - https://cityofute.com/index.php/permits-and-ordinances/</i>	
• Building Code	• Tree Trimming Ordinance

• Nuisance Ordinance	• Zoning Ordinance
<i>Programs</i>	
National Flood Insurance Program (NFIP) Non-Participant	CID #190464 (number provided by City, not included in NFIP database)
ISO Fire Rating (not updated)	Class 7
Planning/Zoning Commission	Board of Adjustment
	Zoning/Land Use Restrictions
Tree Trimming Program	
<i>Staff/Department</i>	
Building Code Official	City Clerk and/or Mayor
Building Inspector	City Clerk and/or Mayor
Local Emergency Response Plan	Fire and EMS
<i>Non-Governmental Organizations</i>	
Veterans Groups	American Legion Post #0442 (Abby Post)
Community Organizations	<ul style="list-style-type: none"> • Ute Community Club • Ute Garden Club • 4-H (w/Mapleton)
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

The city is not included in the Community Status Book Report for NFIP. Ute has zero RL/SRL properties. Recent changes throughout city hall staffing and council representation, Ute has assessed policies and procedures and is in progress of making necessary updates. Among new policies, Ute initiated virtual meeting availability to allow open meetings, following state protocol during COVID. Policy remains in place to accommodate emergency action as necessary.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
Generator & Related Projects	Ute	2020: Generator for community building; City Hall; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Update. Ute implemented several projects in the past 5 years, resulting in this one being delayed. This project carries over into the 2025 HMP with continued high priority.
development		
Improve existing facilities & infrastructure	Ute	2020: Waterworks and water tower project including generator backup system. <i>City Clerk, Project administrator, Engineering consultant</i> (City funds, Loans, CDBG) HIGH PRIORITY
Improve existing facilities & infrastructure	Ute	Complete. Water tower replaced – higher capacity, updated system (December 2024). Project cost exceeded \$3M. Segment of water mains replaced, and generator added. Funded through USDA RD , CDBG, local funds, GO Bonds.
flow control		
refuge		
technology		
natural barriers/supports		

d. Risk Assessment

A review of NOAA Storm Events revealed one reportable incident specific to Ute in addition to the 16 Monona “Zone” events that affected the whole county.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
UTE	4/19/2023	18:00	Hail	1.00 in.	0	0	0.00K	0.00K

Contributing Factors

The City of Ute implemented numerous projects that substantially improve community wellbeing and resiliency. Following is a summary of those improvements in addition to mitigation-specific updates to planned strategies as listed in the previous section of this profile.

1. Ute has started the process of adding full-of-site daily backups of all systems and programs. The system should be installed and running before end of summer 2025. This

is a full backup that in the event of a catastrophic event or security infiltration, the city can be at full capacity, up and running within a day or two.

2. Siren repair and new battery, bearings, and motor (summer 2024)
3. Well pump repair completed in preparation for new well. USDA SEARCH program funds awarded and process in progress.
4. Fire Department implemented communication improvements to better connect with adjacent communities (June 2024)
5. Alert Iowa promotions coordinated with EMA and provision of emergency contact info for residents (November 2023)
6. Water main improvements affecting 150 properties – replaced pipes and mapped
7. Ash trees at park have been treated, reducing loss from effects of Emerald Ash Borer Beetle. The city has also implemented an urban forestry plan to remove all untreated ash trees in the right of way within the next 3 years. All trees in the right of way have been evaluated to lessen the chance of damage to property and infrastructure during high winds
8. Plan set to replace aging FD equipment, SCBAs specifically with 4 replaced using local funds and Monona County Community Partners grant funds
9. Southend drainage work completed along 6th St between Smith and Railway Sts
10. Fire Department added Grade 1 training to annual certifications
11. Code update is in progress with City reviewing Knox boxes, rental inspections, and nuisance language.
12. Comprehensive Plan update in budget discussion

In addition to public properties and infrastructure, Ute participates in a regional Owner-Occupied Rehabilitation Program that provides forgivable loans to income-eligible homeowners. This program supports repairs that:

- bring homes up to code (safety, ADA issues),
- stabilize structure (foundation or roof repair) to prevent more costly damage,
- enable efficiency improvements (new windows, insulation).

While local investment has prioritized community betterment overall, a number of mitigation needs remain. There are not any mobile home parks in Ute, however several residences are

modular structures. Though set on permanent foundations, these homes are more vulnerable during high wind and other extreme weather events.

An aging population is of concern to city staff, with many not able to safely access their basements for refuge, and some simply wary of being alone in extreme weather conditions.

While not formally designated, the Fire Station is equipped with a generator and has served as a refuge location during power outages and extreme weather. The Community Building may serve in that capacity while open as long as power has not been interrupted. Facilities included in the *Community Supports* section may also serve informally as refuge locations pending emergency type and timing (keyed entry may be a barrier outside of fixed hours of operation).

Priority Hazards

- Tornado/Windstorm
- Severe Winter Storm
- Extreme Heat and Extreme Cold

e. Mitigation Needs, Actions, & Strategies

The city is assessing feasibility of designating the Community Building as a shelter/refuge as well as command center in the event of an emergency. Addition of a generator to enable that formal capacity is key to attaining this goal in the short term. Mitigation strategies identified for the next 5 years are as provided in the following table.

communication/education		
Promo/Info	Ute	New. PSAs - Improve communications of existing programs and systems as available including but not limited to Alert Iowa, Increasing water intake during extreme heat and/or extreme dry conditions; water conservation (drought considerations); Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. <i>City Clerk, County EMA</i> (no funds needed) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Ute	Carry over. Generator for community building; City Hall; <i>City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, pre-disaster/mitigation funds as available, Community Benefits funds) HIGH PRIORITY

development		
Improve existing facilities & infrastructure	Ute	New. City is planning new well. <i>Public works, USDA, contracted services</i> (local general budget funds, USDA RD) HIGH PRIORITY
flow control		
refuge		
technology		
natural barriers/supports		
Trees	Ute	New. Re-tree plan to be implemented. City reduced loss with treatment of ash trees in parks, however additional trees are needed to provide soil stabilization, respite from extreme heat/sun, and to serve as natural windbreak. <i>City administration</i> (City general budget funds, IDNR programs, UPS Tree Grants and similar community reforestation funds, private funds) HIGH PRIORITY

10. WHITING

a. Profile

The city of Whiting is centrally located in the northwest quarter of Monona County. County Highways K45 and E24 intersect near the center of the city, with most commercial and residential structures located west of the intersection. The city is located several miles east of Interstate 29. McCandless Cleghorn Ditch meanders north to south through the western portion of city limits. More information can be found on the City of Whiting’s website.

Among Whiting’s amenities is a new splashpad funded entirely through donations. Project expected to be complete 2026. Whiting hosts an annual gathering to celebrate the famed horror movie, Children of the Corn which was filmed in the area. Gathering includes a screening of the movie and a tour of the house featured in the film.

City Governance & Community Supports

Whiting is governed by a five (5)-person elected City Council and a Mayor. Offices in addition to Mayor and Council include City Clerk, Maintenance Engineer, Fire, and Police. Fire and rescue services are provided by the Whiting Fire Department, which is staffed by volunteers. Whiting does have a police officer on staff, however, law enforcement services are supplemented by the County. The City of Whiting is a member of the NFIP program.

Demographics, Housing, & Economics

Using CensusReporter.gov²⁵ as a baseline, the town is home to 339 households, and its median household income is \$68,977, which is higher than the Monona County median of \$62,944. In 2023, Whiting had a population of 840, a slight increase from 829 residents in 2020. Whiting has a relatively small percentage of young children, with 3.7% of the population aged five or younger. A significant portion of the population (18%) is aged 65 or older, which is lower than the county's average. About 10.1% of residents live below the poverty line, and 10.7% live with a disability, both figures that are slightly below the county and state averages. These statistics suggest that Whiting has a diverse community with some economic and accessibility challenges, but also a relatively stable economic base.

<i>Community Characteristics</i>	
Population (2023)	840
Population (2020)	829
Total Households	339
Median Household Income	\$68,977
Median Household Income – Monona County	\$62,944

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Monona</i>	<i>Iowa</i>
5 years and younger	31	3.7%	5.6%	5.7%
65 years and older	165	18.0%	23.8%	16.0%
Below the poverty level	84	10.1%	11.2%	11.3%
Living with a disability	90	10.7%	13.8%	18.5%

Whiting has a total of 355 housing units, with 337 currently occupied and 18 vacant, resulting in a high occupancy rate of 95%. The community has 57 mobile homes, accounting for 16% of the housing stock. A significant portion of Whiting's homes were built before 1970, making up about 70% of the housing units. The remainder of the housing stock includes homes built between 1970 and 1999, and a small number were constructed after 2000, reflecting a mix of older and more recent residential development.

²⁵ Source: <https://censusreporter.org/profiles/16000US1985215-whiting-ia/>

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	355	-
Occupied	337	95%
Vacant	18	5%
Mobile Homes	57	16%
<i>Age of residential structure</i>		
Built 2000 or later	35	9.2%
Built 1970 – 1999	78	20.4%
Build 1969 or earlier	269	70.4%

Leading Employers

Whiting has dozens of businesses that employ small staffs. Leading employers in the city of Whiting include:

- Whiting Community School District
- Pleasant View Health Facility

Critical Facilities

City Hall (Clerk’s Office)	605 Whittier St.
Fire Department	513 Whittier
Public Library	407 Whittier St.
Whiting Elementary School	606 West St
Whiting Senior High School	606 West St
Pleasant View Assisted Living	200 Shannon Dr
Pleasant View Care Center	200 Shannon Dr
Badger Lake State Wildlife Management Area	outside city limits

The city is acquiring additional property, with a purchase in progress. The property will be used as a storage facility. They also sold some properties.

Community Supports, Vulnerable Populations, Gathering Locations, & Local Areas of Interest

Pleasant View Care Center and Assisted Living	200 Shannon Drive
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Whiting Christian Church	716 West Street
First Congregational United Church of Christ	429 Whittier Street

Private businesses and organizations play an essential role in the City’s recovery efforts and communication network, and are therefore included in this itemizing of essential or critical facilities. The list is not exhaustive.

Valuation of City Assets

In addition to city valuation, that of privately owned properties, facilities and personal property, also contributes to overall protected benefit when mitigation projects are considered. Each mitigation action, strategy, and/or project pursued for implementation in the next five (5) years will fully consider protections to those assets and to the residents therein. Furthermore, privately owned facilities that offer services and support during times of crisis may be specifically included in mitigation actions and/or strategies receiving municipal-funded support to maintain function and operation those structures. Some notable entities are shown.

Total Blanket TIV	\$	5,519,551
Building	\$	5,058,573
Personal Property	\$	523,563
Misc Property Sched	\$	296,817
Misc Property Unsched	\$	<u>245,562</u>
ΑΔΑ' Ψ	Δρ	865,280
' ησακ' Ψ	Δρ	<u>9,457,848</u>

b. Participation

An on-site mitigation planning meeting was held at Whiting City Hall February 19, 2025, with SIMPCO and City Clerk Marie Bruns LaClair in attendance.

c. Community Capabilities

<i>Policies/Ordinances (2021)</i>	
<ul style="list-style-type: none"> • Building Code • Drainage Ordinance 	<ul style="list-style-type: none"> • Subdivision Ordinance • Zoning Districts

• Storm Water Ordinance	
<i>Programs</i>	
Codes Building Site/Design	Via structured building permit process
National Flood Insurance Program (NFIP) Participant	CID #190684B
ISO Fire Rating	Class 7/7X
<i>Staff/Departments</i>	
Public Works Official	Street Superintendent
Emergency Response Team	Fire, Police Chief, and EMS
<i>Non-Governmental Organizations</i>	
Emery Johnson American Legion Post #481	
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water & sewer services	
Ability to incur debt through:	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities

The city participates in the NFIP program with the Mayor serving as Floodplain Administrator. Whiting has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
Promo/Info	Whiting	2020: PSA program to promote education about tree types and planting; <i>City Clerk</i> (no funding anticipated) LOW PRIORITY
Promo/Info	Whiting	Completed. PSA was communicated through schools at no cost.
tools/equipment		
Equipment	Whiting	2020: Interest in additional/better performing snow removal equipment; <i>City Council</i> (City funds, IDOT program funds, PDM) LOW PRIORITY
Equipment	Whiting	Complete. The city has a box plow for tractor, new scraper, refurbished plow, and new (used) sander. Better removal plan is in place which included the addition of a part time position.
development		
Bridges & Roads	Whiting	2020: West St Bridge - pending evaluation and cost estimate; <i>City Council, Collaborate with County Engineer</i> (City funds, transportation funds, Community Benefit funds) HIGH PRIORITY

Bridges & Roads	Whiting	Complete. West St bridge and K45 bridge both redone in 2020. Project cost @ \$98,000. Loan balance remaining is \$45,000. K45 still needs new guard rails – pending (entered as new project).
Bridges & Roads	Whiting	2020: Elevate portion of roadway to correct dip in the road at Bertram intersection; City Council (City funds, transportation funds, Community Benefit funds) MEDIUM PRIORITY
Bridges & Roads	Whiting	Complete. Roadway elevation completed summer 2023.
Policy	Whiting	2020: Consider formalizing reference to DNR for Floodplain Development; <i>City Council, Zoning Commission, City Attorney</i> (Local funds) LOW PRIORITY
Policy	Whiting	Complete. City completed floodplain update in coordination with IDNR. City is participating in county-wide efforts to counter flooding. No cost associated with project outside of staffing hours.
flow control		
refuge		
technology		
natural barriers/supports		

Other work completed since 2019 includes Whittier Rd reconstruction, Road was laid using concrete instead of asphalt to improve longevity and routine maintenance of facilities, infrastructure and roads. As a public health measure, a new OCI9 meter has been installed to provide more accurate assessment of water quality.

Ongoing efforts are in place for the removal of dead/diseased trees is in progress. 2024 included plans to remove 20+ trees, 8-10 from the park. Replacement plan is for five new trees annually involving a sturdy stock. The city will participate in MidAmerican’s Trees Please program to facilitate funding.

d. Risk Assessment

Contributing Factors

NOAA Storm Event database reports from 11/1/2019 through 12/31/2024 include five events specific to Whiting. General effects of events attributed to Monona (Zone) and Woodbury (Zone) were also experienced locally.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
WHITING	5/12/2022	18:51	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
WHITING	6/12/2024	17:51	Hail	1.75 in.	0	0	0.00K	0.00K

WHITING	6/12/2024	18:14	Hail	2.75 in.	0	0	0.00K	0.00K
WHITING	7/21/2024	17:02	Funnel Cloud		0	0	0.00K	0.00K
WHITING	7/29/2024	23:05	Thunderstorm Wind	53 kts. MG	0	0	0.00K	0.00K

Other consideration for risk is given to conditions in the planning area. Floodplain is indicated along the northwest and western borders of Whiting, including some developed properties. The large floodplain area may not always be flooded in high river conditions; however, ground saturation and frequency of high water table may routinely impact the community.

Whiting has a relatively large population living in trailer and modular homes, affecting its resiliency in high wind and tornado incidents, as well as any extreme weather conditions. Vandalism has resulted in locking of park facilities that may otherwise serve as shelter from sudden inclement weather conditions.

Several projects are in the works to improve the water systems. Full systems replacement is ultimate goal, though not likely to be completed in the next five years.

Priority Hazards

Whiting has identified the following hazards as their top three concerns based on likelihood of occurrence as well as potential and historical damages due to named events.

- Flooding
- Tornado/Windstorm
- Severe Winter Storm

Thunderstorm with Hail and Lightning is quickly rising in priority.

e. Mitigation Needs, Actions, & Strategies

communication/education

Promo/Info	Whiting	New. PSAs - Improve communications of existing programs and systems as available including but not limited to Alert Iowa, Increasing water intake during extreme heat and/or extreme dry conditions; water conservation (drought considerations); Red Flag warning awareness; Lightning safety, Snowstorm/Heavy snow safety, Tornado safety. These activities are intended to reduce risk of life and loss/damage to property. <i>City Clerk, County EMA</i> (no funds needed) HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Whiting	<p>New. There are no generators and no transformer switches in place for critical facilities. City is developing 2 new projects with generators needs identified. Generator also needed at sewer plant lift station.</p> <ol style="list-style-type: none"> 1. water plant project in a phased overhaul, including consideration of another well (local, state, federal supports including loan ops) 2. New building for Fire Department (city funded at present, likely to include fundraising and community benefit funds) 3. Sewer plant lift station (not associated with other active or planned project) <p>Addition of generators will enable continuity of operations in the event of a power outage. <i>Public Works, County EMA</i> (local funds general budget, project funds as applicable, PDM funds as available) HIGH PRIORITY</p>
Equipment	Whiting	New. Whiting Fire Department in need of a new rig-grass fire truck. Estimated cost is \$300,000. Fundraising efforts focused on new building therefore local funds are constrained. Priority reflects fund availability, not level need. <i>Fire Dept, City Council</i> (Response support funds as applicable, PDM if available) LOW PRIORITY
development		
Bridges & Roads	Whiting	New. K45 bridge needs new guardrails following improvements completed in 2020. <i>Streets dept, County roads.</i> (local road use funds, other road funding as may be available) HIGH PRIORITY
flow control		
refuge		
technology		
natural barriers/supports		

Other planned projects include overlays on roads to reduce deterioration rate in inclement weather conditions.