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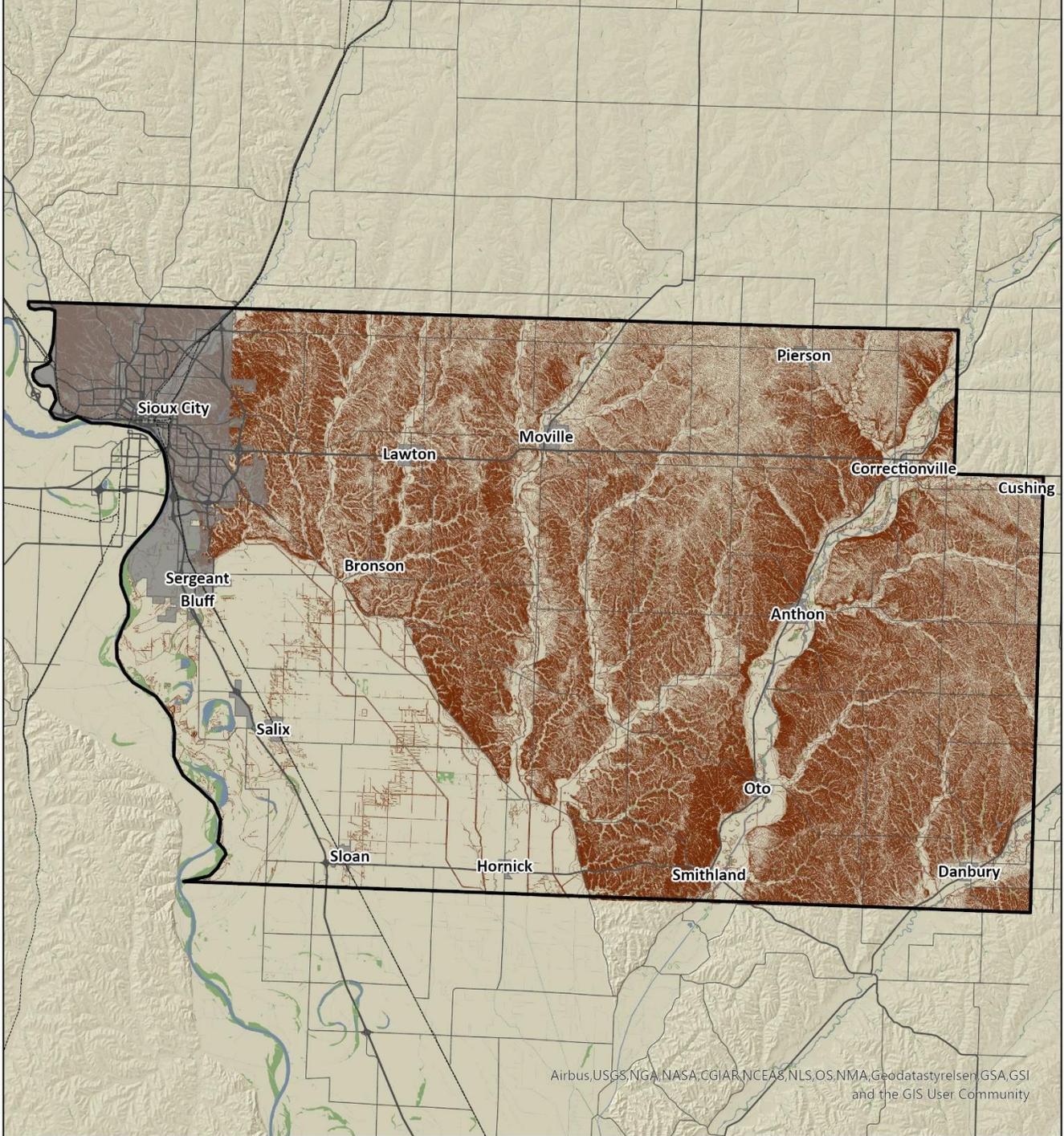
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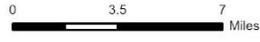
FINAL DRAFT

Topography Map, Woodbury County



Airbus, USGS, NGA, NASA, CGIAR, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community

 Marsh, Swamp, Bog, Prairie	 Lake, Reservoir	 Contours
 River	 Incorporated Areas	 Railroad
	 County Boundary	




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E. Woodbury County

PROFILE – UNINCORPORATED AREA & COUNTY

Woodbury County is located north of center along Iowa's west "coast". The County is bordered by Plymouth County to the north, Ida County to the east, Monona County to the south, and the Missouri River lines its western border with the state of Nebraska. Woodbury is 872 square miles in size. Incorporated communities in Woodbury County include Anthon, Bronson, Correctionville, Cushing, Danbury, Hornick, Lawton, Merville, Oto, Pierson, Salix, Sergeant Bluff, Sioux City, Sloan, and Smithland.

Rivers & Watersheds

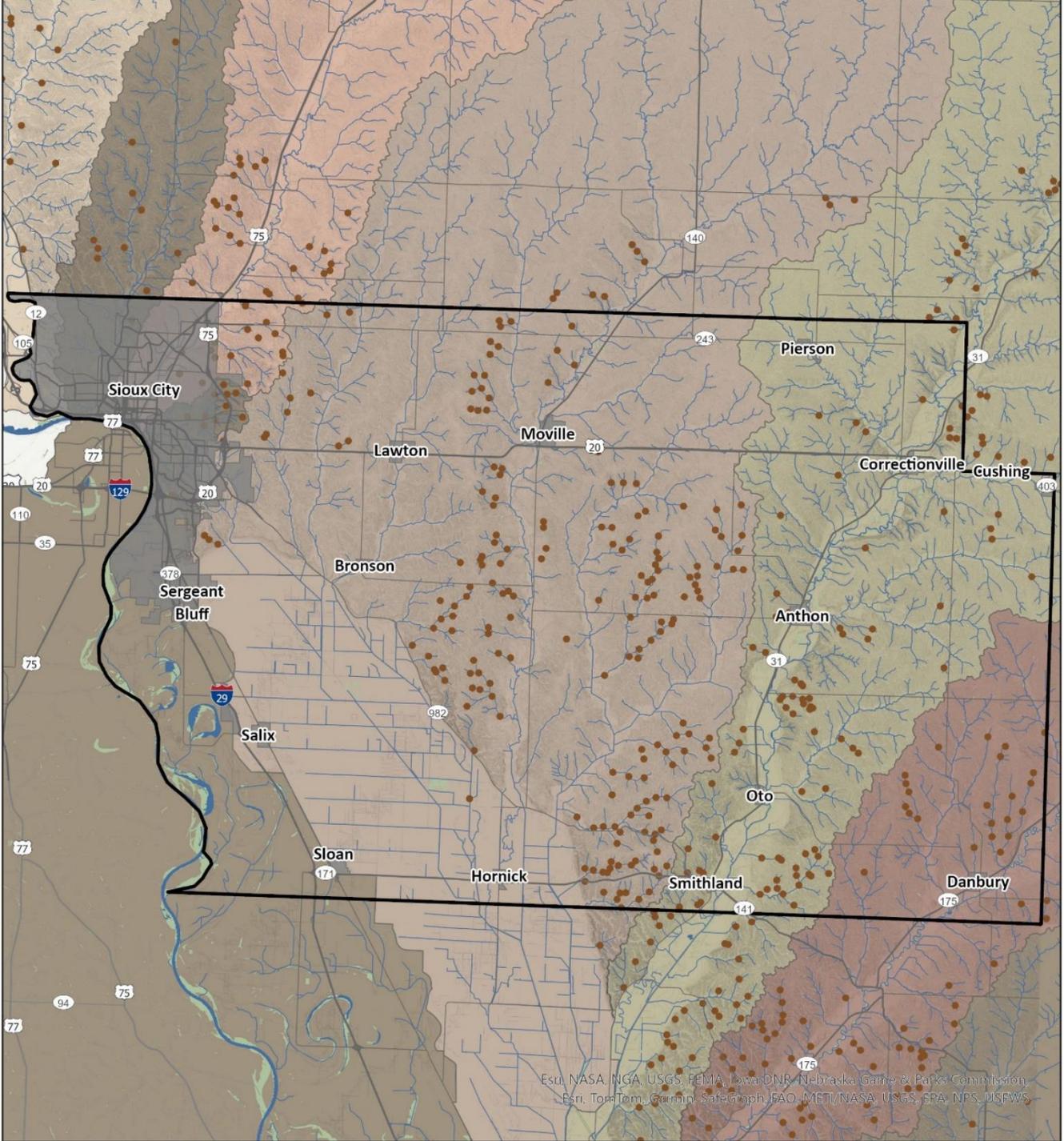
The western border of Woodbury County is the Missouri River. Other significant rivers in the County include the Floyd River, Maple River, Perry Creek, Pierson Creek, and the West Fork of the Little Sioux River.

There are six (6) watersheds within the County that drain storm water and snow melt into streams and lakes, wetland areas, or into groundwater reserves. These watersheds starting west and heading east are Lower Big Sioux Watershed, Blackbird-Soldier Watershed, Floyd Watershed, Monona-Harrison Ditch Watershed, Little Sioux Watershed, and Maple Watershed as shown in the map in the Region portion of this Plan. The following map depicts the sub-watersheds within those as listed above. Sub-watersheds are determined based on hydrologic unit code (HUC) level 12, which includes more detail including tributary data.

Landform Regions & Geology

Woodbury County is composed of four (4) distinct landform regions – Northwest Iowa Plains, Southern Iowa Drift Plains, Loess Hills, and Missouri Alluvial Plain.

Watershed and Water Resources, Woodbury County



<ul style="list-style-type: none"> Dams Marsh River Lake, Reservoir River/Stream 	<ul style="list-style-type: none"> Incorporated Areas County Boundary Watersheds Blackbird-Soldier Boyer 	<ul style="list-style-type: none"> Floyd Little Sioux Lower Big Sioux Maple 	<ul style="list-style-type: none"> Monona-Harrison Ditch 	<p>0 3 6 Miles</p>	
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Estn. NASA, INGA, USGS, FEMA, Iowa DNR, Nebraska Game & Parks Commission, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS

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Transportation Network

On the western side of the County is Interstate 29, which generally runs north to south. US Highways 20 and 75. State Highways 12, 31, 140, 14, and 175 are also included in the County's road network.

The County's secondary road system is composed of 1,353.48 miles. Within this category, Farm-to-Market roads make up 395.56 miles, while Area Service roads account for 957.92 miles. Gravel or earth surface types account for 938.85 miles of the secondary road system. The remaining 331.37 miles are composed of bituminous, asphalt, or PCC surface types.

County Governance & Supports

The county seat is located in Sioux City, in the northwest portion of the County. Its jurisdiction covers all unincorporated portions within county boundaries. Woodbury County is governed by a five (5)-person Board of Supervisors, supported by an administrative staff. The Board exercises power characteristic of each of the three branches of government: executive, legislative, and judicial. Additional county offices include the following departments.

- Assessor
- Attorney
- Auditor
- Communication Center (911)
- Conservation Board
- Elections
- Emergency Management
- Emergency Services
- Human Resources
- Motor Vehicle
- Recorder
- Secondary Roads
- Sheriff's Department
- Siouxland District Health
- Social Services
- Treasurer
- Veteran Affairs
- Weed Commissioner
- Planning & Zoning Commission/CED

The Woodbury County Department of Emergency Management supports and coordinates between local departments and emergency responses units. The Woodbury County Sheriff's

Office (WCSO) provides law enforcement services to the county. The office has 120 employees and covers 872 miles.

County Facilities

<i>Facility Name/Type</i>	<i>Address</i>	<i>City</i>
Anthon Shed; Storage	NW Corner of Bridge St & Miller Ave	Anthon
Climbing Hill Shed	75 Deer Run Trail	Climbing Hill
Public Safety; Emerg Services Bldgs	121 Deer Run Trail	Climbing Hill
Correctionville Shed; Storage (PNBR)	112 Knotty Pine	Correctionville
Multiple structures	Little Sioux Park	Correctionville
Danbury Shed	NE Corner of 1st St & Thomas St	Danbury
Danbury Tower	3077 Osceola Ave	Danbury
Library - Leased Space	221 Main St	Danbury
Hornick Shed; Storage Shed (PNBR)	220 Main	Hornick
Library/City Hall - Rented Space	510 Main St	Hornick
Lawton Shed	Hwy 20	Lawton
Miller Township Shed	SW Corner of 250th & O'Brien Ave	Millersburg
Library - Leased Space	825 Main St	Moville
Moville Shed; Storage	Hwy 20	Moville
Secondary Roads Office	759 E Frontage Rd	Moville
Multiple structures	NE Corner of Hwy 31 & 290th St	Oto
Oto Radio Building	Corner of 2nd & Royal Sts	Oto
Oto Shed	205 Washington St	Oto
Library - Leased Space	321 4th St	Pierson
Pierson Shed	106 Summit St	Pierson
Cabins	2924 Snyder Bend Rd	Salix
Luton Shed	2508 Dallas Ave	Salix
Multiple structures	Snyder Bend	Salix
Multiple structures	Bigelow Park	Salix
County Building	401 - 8th St	Sioux City
County Building	1211 Tri-View Ave	Sioux City
Courthouse	620 Douglas St	Sioux City
Dorothy Pecaut Nature Ctr.	4500 Sioux River Rd	Sioux City
Law Enforcement Center	407 7th St	Sioux City

Law Enforcement Training Center	1600 County Home Rd	Sioux City
Prairie Hills facility & related	1600 County Home Rd	Sioux City
Siouxland District Health	1014 Nebraska St	Sioux City
Trosper-Hoyt County Serv Bldg	822 Douglas St	Sioux City
Comfort Station Storage; Open Shelter	Fowler Forest	Smithland
Multiple structures	Southwood, 1 Mi SW of Smithland	Smithland

Education

Within Woodbury County there are 48 public schools divided into six (6) school districts. These districts include:

- Lawton-Bronson Community School District, Lawton
- River Valley Community School District, Correctionville
- Sergeant Bluff-Luton Community School District, Sergeant Bluff
- Sioux City Community School District, Sioux City
- Westwood Community School District, Sloan
- Woodbury Central Community School District, Merville

In addition, there are eight (8) private schools located within the County. The Sioux City Career Academy provides an alternative learning environment for students within the Sioux City Community School District.

While there are no public universities located with Woodbury County, there are a several other higher education institutions. Western Iowa Tech Community College is a public two-year college located in Sioux City. Private non-profit institutions include Briar Cliff University and Morningside College, also located in Sioux City.

Woodbury County generally has a higher percent of residents with a high school degree or some college compared to the state of Iowa. However, the County falls behind within the categories of bachelor's degree and graduate or professional degree.

Educational attainment in Woodbury County shows a higher percentage of residents without a high school diploma compared to the state average. However, the county has a relatively strong proportion of individuals who have completed high school or pursued some college education. The number of people with an associate’s degree is close to the state average, but Woodbury

County has a lower percentage of residents with bachelor’s and graduate degrees compared to the state. This indicates that while there is a solid foundation in basic and postsecondary education, there are opportunities for growth in higher education attainment within the county.

<i>Level of Education</i>	<i>Woodbury</i>	<i>Iowa</i>
No high school diploma	12.8%	6.8%
High school degree (includes equivalency)	32.6%	30.4%
Some college, no degree	19.8%	19.9%
Associate’s degree	11.4%	12.1%
Bachelor’s degree	15.6%	20.6%
Graduate or professional degree	7.8%	10.2%

Population

CensusReporter.org provides the following population⁴⁴ and household statistics for Woodbury County. It’s important to note the data as provided is a snapshot of available information at the time drawn. Number fluctuate as data is more thoroughly assessed over time, accounting for variations in using the same source with the same search criteria and retrieving varying results. For consistency, the point in time results are reflected as pulled and are presented as estimates.

<i>Community Characteristics</i>	
Population (2023)	105,760
Population (2020)	105,941
Total Households	40,348
Median Household Income	\$64,913

⁴⁴ Source: <https://censusreporter.org/profiles/05000US19193-woodbury-county-ia/>

Median Household Income – Iowa	\$71,433
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Healthcare Facilities

Woodbury County holds numerous healthcare facilities, clinics, and urgent care offices. There are a number of mental health services centers, eye doctors, dentists, orthodontists, surgery centers and more, geared to meet the needs of residents in the tri-state area. Some services are gradually consolidating, many with often changing management companies – especially nursing homes, rehab centers, and assisted living facilities.

The larger providers are listed below for reference. Several have branch offices/services and have more than one service location.

- Unity Point Health – St Luke’s
- Siouxland Community Health Center
- Family Healthcare of Siouxland
- June E Nylén Cancer Center
- Briar Cliff University Physical Therapy Clinic
- CNOS

Housing

Woodbury County’s housing picture is best defined within its incorporated communities, with very little discernable information available for unincorporated entities. The county does have an active planning and zoning commission serving under the board of supervisors. In general terms, CensusReporter.org provides an estimate of 43,622 housing units with a 92% occupancy rate. Median home values show at \$182,900 in comparison to the state at \$213,300 and the national median value of \$340,200. The national range has a significant impact on local markets, especially after significant relocation trends stemming from the COVID-19 pandemic. Seeking smaller communities with less density, many large urban residents overpaid for homes due to relative value of a similar home in their city of origin. This is consistent throughout the region.

Income & Economics

<i>Industry for the Civilian Employed Population 16 and over</i>		
Civilian employed population (16 and older)	51,663	-

Agriculture, forestry, fishing and hunting, and mining	1,108	2.1%
Construction	4,4047	7.8%
Manufacturing	9,368	18.1%
Wholesale trade	1,787	3.5%
Retail trade	5,182	10%
Transportation and warehousing, and utilities	3,300	6.4%
Information	1,153	2.2%
Finance and insurance, and real estate and rental and leasing	2,836	5.5%
Professional, scientific, and management, and administrative and waste management services	3,303	6.4%
Education services and health care and social assistance	10,732	20.8%
Arts, entertainment, and recreation, and accommodation and food services	5,420	10.5%
Other services except public administration	2,528	4.9%
Public administration	899	1.7%

The budgeted projects outlined in the Capital Improvement Plan and the scheduled Equipment Replacement Plan play a significant role in mitigation efforts. These initiatives help ensure access, enhance security, and establish reliable infrastructure, all of which contribute to the county’s ongoing resiliency through daily decision-making at the local level.

Valuation of County Assets

A valuation of county assets was not provided for this Plan update. To provide an accurate cost-benefit analysis prior to project implementation, the county will consider valuations of affected properties - both public and private, to validate project expense.

PARTICIPATION

SIMPCO facilitated a mitigation planning meeting at the Security Institute, WITCC on January 13, 2025 with the following in attendance.

- Mike Montino, EMA Coordinator
- John Holmes, Assistant EMA Coordinator
- Dan Priestly, Zoning Coordinator
- Laura Sievers, Engineer (via phone conference)

Woodbury County residents comprised 78 of the 251 primary survey respondents, offering public input for consideration herein.

CAPABILITIES

Woodbury County participates in the NFIP program, CID #190536C. The County Zoning Director serves as Floodplain Administrator. As a county, its unincorporated areas have zero RL/SRL properties.

<i>Plans/Guidance Documents</i>	
<ul style="list-style-type: none"> Comprehensive Plan (May 2025) Builder’s Plan Capital Improvement Plan 	<ul style="list-style-type: none"> Local/County Emergency Plan County Recovery Plan Land Use Plan
<i>Policies/Ordinance</i>	
Building Code	Roof Load Capacity Ordinance
Debris Management Plan	Storm Water Ordinance
Drainage Ordinance	Subdivision Ordinance
Floodplain Ordinance	Tree Trimming Ordinance
Nuisance Ordinance	Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Participant	CID #190536C
Hazard Awareness Program	
Property Acquisition	
<i>Programs</i>	
Planning/Zoning Boards	
Tree Trimming Program	
Mutual Aid Agreements	28E agreement with all communities within Woodbury County
<i>Staff/Department</i>	<i>Comments</i>
<ul style="list-style-type: none"> Building Code Official Building Inspector Mapping Specialist (GIS) Engineer 	<ul style="list-style-type: none"> Emergency Management Coordinator NFIP Floodplain Administrator Emergency Response Team Historic Preservation

• Development Planner	
<i>Non-Governmental Organizations</i>	<i>Comments</i>
American Red Cross	Sioux City
Salvation Army	Sioux City
Veterans Groups	in communities
Homeowner Associations	in some cities
Neighborhood Associations	in some cities
Chamber of Commerce	Sioux City
Community Organizations (Lions, Kiwanis, etc.)	in communities
<i>County Funding Abilities & Authorities</i>	
Ability to apply for Community Development Block Grants	
Authority to levy taxes for a specific purpose	
Levy taxes for a specific purpose	
Impact fees for new development	
Incur debt through	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities
Withhold spending in hazard prone areas	

Review of Actions Taken

communication /education		
Assessment/Study	Woodbury Co	<p>2020: Econ Dev - Work on measures necessary to reduce NFIP participant costs for communities. County Economic Dev, IDNR (County funds as needed) HIGH PRIORITY</p> <p>Project closed. Economic Development department consolidated into Zoning. Project deemed not immediately feasible, though county will reassess situation given an opening to such opportunity.</p>
tools/equipment		
Generator & Related Projects	Woodbury Co	2020: All communities: Standby generator on site for each Community Center/City Hall as may be designated for command center during a disastrous event) LOW PRIORITY
Generator & Related Projects	Woodbury Co	Update. Some communities have added generators and/or transfer switches to accommodate mobile equipment. The county will continue to pursue opportunity to install dedicated generators where necessitated and transfer switches where still needed.
Generator & Related Projects	Woodbury Co	2020: A generator needed at Courthouse; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY

Generator & Related Projects	Woodbury Co	Update. Carry over to 2025 plan.
Equipment	Woodbury Co	2020: Sandbagging equipment/HESCO bags; <i>County Engineer, potential collaboration with partner County</i> (County funds, IDOT program funds, PDM) HIGH PRIORITY
Equipment	Woodbury Co	Complete (with ongoing inventory maintenance required). County acquired 10 pallets of HESCO bags in addition to two 2" pumps, a 6" pump. Bags and sandbagging equipment was issued to address current year flooding. Old stock was used first with remainder stored for future use. Bags hold an approximate 10-year useful life so no additional are needed at this time.
Equipment	Woodbury Co	2020: Additional trailer w/ 5 sets of road barricades. 3 trailered and ready to roll. 5 sets per trailer; <i>County Engineer, (County funds, IDOT program funds, PDM)</i> LOW PRIORITY
Equipment	Woodbury Co	Project Closed. County determined that while extra equipment would be beneficial, it is not a practical cost consideration in the near future with county funds, nor response funding as may become available.
Equipment	Woodbury Co	2020: Additional pumps - 12" & 18" capacity; <i>County Engineer</i> (County funds, IDNR program funds, PDM) HIGH PRIORITY
Equipment	Woodbury Co	Update: Current practice is to borrow from established resources as needed (local farmer).
development		
Bridges & Roads	Woodbury Co	2020: Secondary Roads - about 30 bridge replacements necessary -- some immediate, <i>County Engineer, Contracted services</i> (County funds, IDOT Transportation funds) HIGH PRIORITY
Bridges & Roads	Woodbury Co	Specifics regarding completed and pending bridge projects were not provided, though the county continues to address its bridge repair backlog annually. Unless incorporated into a specific event-related recovery or prevention effort and amended, this item will not carry over to the 2025 HMP.
Bridges & Roads	Woodbury Co	2020: Secondary Roads - about 50 bridge needing rip rap, scour, overlay or other maintenance; <i>County Engineer, Contracted services</i> (County funds, IDOT Transportation funds) HIGH PRIORITY
Bridges & Roads	Woodbury Co	Specifics regarding completed and pending rip rap restoration/fortification projects were not provided. Replacement of rip rap is an annual maintenance item, with additional attention given post extreme weather event (flood, heavy rain, heavy snow, other incurred displacement). Unless incorporated into a specific event-related recovery or prevention effort and amended, this item will not carry over to the 2025 HMP.
Bridges & Roads	Woodbury Co	2020: Further incorporate mindful planning to accommodate overflow at some road points such as Old Hwy 141 and D38; <i>County Engineer, Contracted services</i> (County funds, IDOT Transportation funds) HIGH PRIORITY
Bridges & Roads	Woodbury Co	Update was not provided at the county's mitigation planning meeting.
flow control		
refuge		
technology		
Improve effectiveness	Woodbury Co	2020: EMA - Improve weather radio/communication receptors in southeast area of county; County EMA, County Board, State

		Communications (County funds, state program funds, PDM) MEDIUM PRIORITY
Improve effectiveness	Woodbury Co	Implemented. The county completed an upgrade of their communications systems, improving reception in problem areas. Funding source and cost were not provided.
natural barriers/ supports		

RISK ASSESSMENT

The county is undergoing the development of a continuity of government operations plan, anticipated for completion by 2026. Policy updates are integral to the plan. Woodbury County must take into account the actions, mitigative and otherwise, implemented in nearby communities and states. Substantial and unexpected flooding caused significant loss in several communities. Tributary flooding caused enactment of an antiquated water diversion plan on the South Dakota side of the river. A similarly unexpected levee breach in Smithland highlighted a gap in updated flood modeling. Otherwise protected areas are increasingly becoming exposed. This and other flooding events in 2024 emphasized the need for a feedback process within the county’s scope of control – interdepartmental to start and interstate and regional in the long term. Process development includes continuous and practical review of procedures to gauge effectiveness and feasibility.

Demographic changes in the region dictate need for Woodbury County to assess capacity to communicate with visitors and occupants of county facilities in varying languages and modes. This factors into notifications of emergency situations, especially for new residents and the homeless population. Technology provides an opportunity for better in-time language translation. However, tech may not be the best answer for those living in tents along the river and other hazard-prone locations.

Risk stemming from natural disasters and other hazards are generalized by an accounting of records as reported in the NOAA Storm Event database⁴⁵. A summary of events reported in Woodbury County includes 189 events between 11/01/2019 and 12/31/2024 (1888 days). Total reported property damage estimate is \$5,261,000 and crop damages are estimated at \$48,262,000.

⁴⁵ Source: <http://www.ncdc.noaa.gov/stormevents/>

<i>Summary</i>	
Number of County/Zone areas affected:	2
Number of Days with Event:	133
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:	8
Number of Days with Event and Crop Damage:	19
Number of Event Types reported:	18

<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>
WOODBURY (ZONE)	11/26/2019	14:30	Winter Storm		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/28/2019	18:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/29/2019	9:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/17/2020	5:30	Blizzard		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/19/2020	4:00	Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/22/2020	0:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/12/2020	16:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/12/2020	22:00	Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/19/2020	1:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/19/2020	18:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	4/12/2020	8:00	Winter Weather		0	0	0.00K	0.00K
LEEDS	5/24/2020	3:29	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
BRONSON	6/21/2020	5:30	Hail	1.00 in.	0	0	0.00K	0.00K
BRONSON	6/21/2020	5:30	Hail	0.88 in.	0	0	0.00K	0.00K
LEEDS	7/14/2020	1:05	Lightning		0	0	25.00K	0.00K
WOODBURY (ZONE)	7/28/2020	0:00	Drought		0	0	0.00K	475.00K
WOODBURY (ZONE)	8/1/2020	0:00	Drought		0	0	0.00K	617.00K
MOVILLE	8/10/2020	7:40	Thunderstorm Wind	50 kts. MG	0	0	0.00K	4.00K
SIOUX CITY ARPT	8/10/2020	7:20	Thunderstorm Wind	50 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	8/10/2020	7:24	Thunderstorm Wind	58 kts. MG	0	0	0.00K	0.00K
SPRINGDALE	8/10/2020	7:16	Thunderstorm Wind	56 kts. EG	0	0	1.00K	0.00K
WOODBURY (ZONE)	9/1/2020	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	10/6/2020	0:00	Drought		0	0	0.00K	47.00K

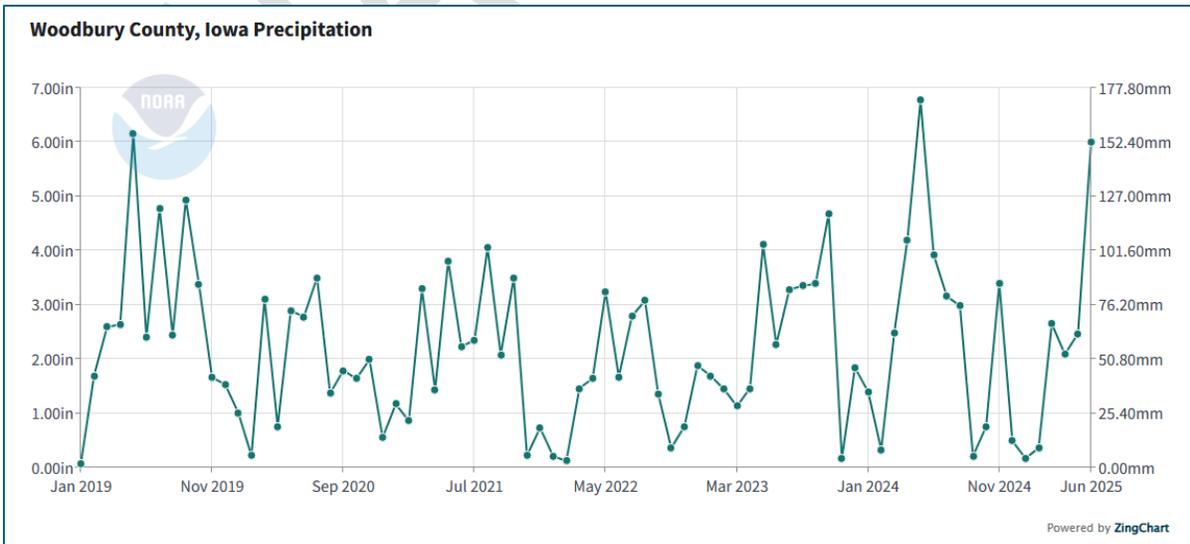
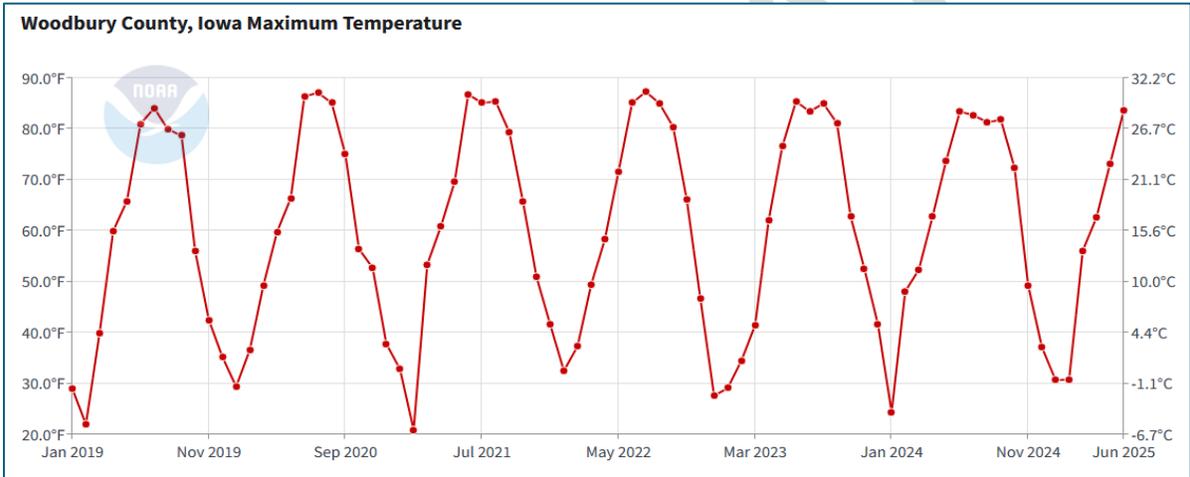
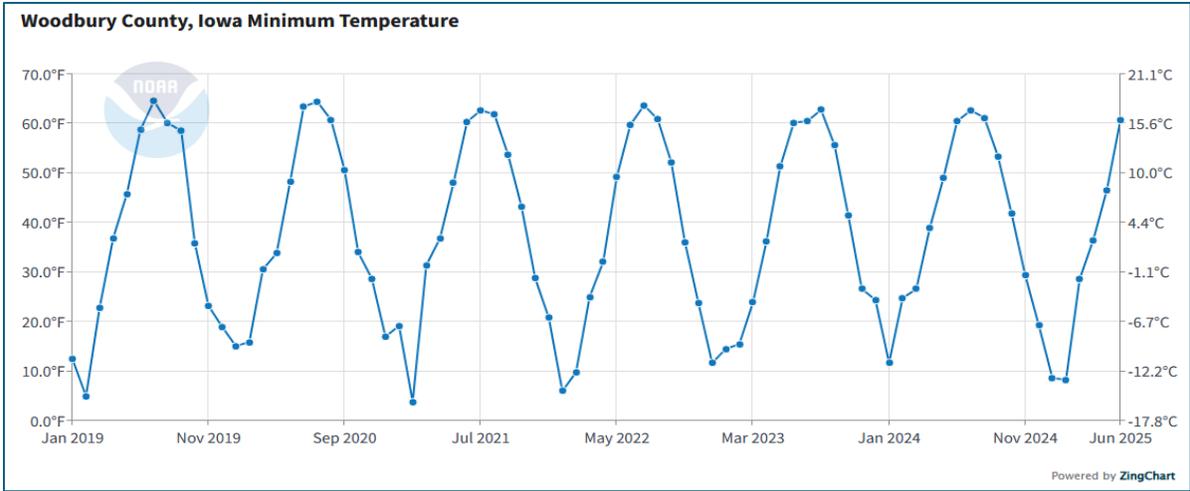
LEEDS	10/11/2020	17:59	Thunderstorm Wind	54 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	10/11/2020	12:00	Wildfire		0	0	300.00K	20.00K
WOODBURY (ZONE)	10/25/2020	2:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/1/2020	0:00	Drought		0	0	0.00K	107.00K
WOODBURY (ZONE)	11/9/2020	21:00	Ice Storm		0	0	6.00K	0.00K
WOODBURY (ZONE)	12/1/2020	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/23/2020	10:00	Blizzard		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/29/2020	7:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/1/2021	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/15/2021	3:00	Blizzard		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/23/2021	17:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/25/2021	11:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/1/2021	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/4/2021	2:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/15/2021	0:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/21/2021	5:00	Winter Storm		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/1/2021	0:00	Drought		0	0	0.00K	0.00K
PIERSON	6/22/2021	17:46	Hail	1.75 in.	0	0	0.00K	8.00K
WOODBURY (ZONE)	7/27/2021	0:00	Drought		0	0	0.00K	583.00K
WOODBURY (ZONE)	8/1/2021	0:00	Drought		0	0	0.00K	336.00K
SIOUX CITY	8/5/2021	23:22	Thunderstorm Wind	52 kts. EG	0	0	2.00K	0.00K
PIERSON	8/20/2021	17:16	Thunderstorm Wind	56 kts. EG	0	0	2.00K	0.00K
WOODBURY (ZONE)	9/1/2021	0:00	Drought		0	0	0.00K	76.00K
WOODBURY (ZONE)	12/10/2021	12:00	Winter Weather		0	0	0.00K	0.00K
ANTHON	12/15/2021	16:34	Thunderstorm Wind	74 kts. EG	0	0	75.00K	0.00K
BRONSON	12/15/2021	16:23	Thunderstorm Wind	61 kts. EG	0	0	25.00K	0.00K
BRONSON	12/15/2021	16:25	Tornado	EF2	0	0	500.00K	0.00K
DANBURY	12/15/2021	16:38	Thunderstorm Wind	64 kts. EG	0	0	10.00K	0.00K
HORNICK	12/15/2021	16:19	Thunderstorm Wind	65 kts. EG	0	0	25.00K	0.00K
LAWTON	12/15/2021	16:28	Thunderstorm Wind	70 kts. EG	0	0	25.00K	0.00K
LAWTON	12/15/2021	16:28	Thunderstorm Wind	69 kts. EG	0	0	25.00K	0.00K
LAWTON	12/15/2021	16:31	Thunderstorm Wind	69 kts. EG	0	0	10.00K	0.00K
MOVILLE	12/15/2021	16:35	Tornado	EF1	0	0	200.00K	0.00K
SALIX	12/15/2021	16:15	Tornado	EFU	0	0	0.00K	0.00K

SALIX	12/15/2021	16:20	Tornado	EF1	0	0	250.00K	0.00K
SIOUX CITY	12/15/2021	16:21	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	12/15/2021	16:25	Thunderstorm Wind	65 kts. EG	0	0	10.00K	0.00K
SIOUX CITY ARPT	12/15/2021	16:23	Thunderstorm Wind	71 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	12/15/2021	20:20	High Wind	58 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	1/4/2022	18:20	High Wind	53 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	1/6/2022	5:00	Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/21/2022	17:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/22/2022	22:30	Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/15/2022	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/25/2022	10:00	Strong Wind	46 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/1/2022	0:00	Drought		0	0	0.00K	0.00K
CORRECTIONVILLE	4/12/2022	16:15	Hail	1.75 in.	0	0	0.00K	0.00K
HOLLY SPGS	4/12/2022	16:24	Hail	1.50 in.	0	0	0.00K	0.00K
HOLLY SPGS	4/12/2022	16:27	Hail	1.50 in.	0	0	0.00K	0.00K
HORNICK	4/12/2022	16:22	Hail	1.00 in.	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/12/2022	19:20	High Wind	55 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/12/2022	19:25	High Wind	61 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/23/2022	9:15	High Wind	59 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	5/1/2022	0:00	Drought		0	0	0.00K	937.00K
MOVILLE	5/12/2022	18:15	Thunderstorm Wind	50 kts. MG	0	0	0.00K	29.00K
SERGEANT BLUFF	5/12/2022	18:01	Tornado	EFU	0	0	0.00K	0.00K
SIOUX CITY	5/12/2022	15:54	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/12/2022	18:09	Thunderstorm Wind	59 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	5/30/2022	13:41	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	6/1/2022	0:00	Drought		0	0	0.00K	500.00K
WOODBURY (ZONE)	7/1/2022	0:00	Drought		0	0	0.00K	5.020M
SIOUX CITY ARPT	7/5/2022	15:49	Thunderstorm Wind	51 kts. MG	0	0	0.00K	80.00K
SIOUX CITY	7/7/2022	16:40	Flash Flood		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/1/2022	0:00	Drought		0	0	0.00K	5.090M
WOODBURY (ZONE)	9/1/2022	0:00	Drought		0	0	0.00K	1.260M
WOODBURY (ZONE)	10/1/2022	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/1/2022	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/29/2022	6:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/1/2022	0:00	Drought		0	0	0.00K	0.00K

WOODBURY (ZONE)	12/8/2022	15:30	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/22/2022	1:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/2/2023	18:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/18/2023	17:00	Winter Storm		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/27/2023	22:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/15/2023	3:20	High Wind	50 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	2/22/2023	12:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/8/2023	16:30	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	3/22/2023	21:30	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	4/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	4/18/2023	22:16	High Wind	57 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	4/19/2023	19:14	Hail	1.00 in.	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/30/2023	8:00	Strong Wind	48 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	5/1/2023	0:00	Drought		0	0	0.00K	0.00K
SIOUX CITY	5/10/2023	22:54	Hail	1.00 in.	0	0	0.00K	0.00K
LEEDS	5/10/2023	22:53	Hail	1.00 in.	0	0	0.00K	0.00K
LEEDS	5/10/2023	22:54	Hail	1.00 in.	0	0	0.00K	0.00K
SLOAN	5/12/2023	18:46	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	6/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	7/1/2023	0:00	Drought		0	0	0.00K	0.00K
SERGEANT BLUFF	7/4/2023	16:56	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SERGEANT BLUFF	7/12/2023	4:28	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	7/12/2023	4:20	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	7/12/2023	4:26	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SLOAN	7/12/2023	4:35	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	7/25/2023	10:00	Excessive Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/19/2023	12:00	Excessive Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/21/2023	11:00	Excessive Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	9/1/2023	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	9/2/2023	12:00	Heat		0	0	0.00K	0.00K

MOVILLE	9/18/2023	23:50	Hail	1.00 in.	0	0	0.00K	0.00K
SIOUX CITY	9/23/2023	11:30	Hail	1.25 in.	0	0	0.00K	0.00K
WOODBURY (ZONE)	10/1/2023	0:00	Drought		0	0	0.00K	33.070M
SERGEANT BLUFF	10/3/2023	19:29	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	10/3/2023	19:25	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	10/28/2023	10:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/9/2023	9:00	Strong Wind	39 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	12/25/2023	3:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/8/2024	3:00	Winter Storm		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/10/2024	16:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/11/2024	15:00	Winter Storm		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/12/2024	15:00	Blizzard		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/12/2024	18:00	Extreme Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/18/2024	10:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	1/19/2024	22:00	Cold/wind Chill		0	0	0.00K	0.00K
WOODBURY (ZONE)	2/27/2024	17:00	Winter Weather		0	0	0.00K	0.00K
WOODBURY (ZONE)	4/2/2024	19:00	High Wind	50 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	4/6/2024	14:30	High Wind	50 kts. MG	0	0	0.00K	0.00K
LEEDS	4/16/2024	12:50	Hail	1.00 in.	0	0	0.00K	0.00K
ANTHON	4/26/2024	11:06	Hail	1.00 in.	0	0	0.00K	0.00K
SERGEANT BLUFF	5/20/2024	21:42	Hail	1.25 in.	0	0	0.00K	0.00K
SERGEANT BLUFF	5/20/2024	21:42	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/20/2024	21:42	Thunderstorm Wind	63 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	5/21/2024	5:26	Thunderstorm Wind	52 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/21/2024	5:19	Thunderstorm Wind	62 kts. MG	0	0	0.00K	0.00K
LEEDS	5/21/2024	5:24	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
SALIX	6/12/2024	17:25	Hail	1.50 in.	0	0	0.00K	0.00K
SALIX	6/12/2024	17:25	Hail	1.25 in.	0	0	0.00K	0.00K
SERGEANT BLUFF	6/12/2024	17:04	Hail	1.25 in.	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:29	Hail	1.50 in.	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:33	Hail	1.50 in.	0	0	0.00K	3.00K
SLOAN	6/12/2024	17:49	Hail	1.75 in.	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:50	Hail	2.00 in.	0	0	0.00K	0.00K
CORRECTIONVILLE	6/15/2024	20:08	Thunderstorm Wind	70 kts. EG	0	0	0.00K	0.00K

SLOAN	6/22/2024	22:00	Flood		0	0	4.130M	0.00K
PIERSON	6/23/2024	4:00	Flood		0	0	0.00K	0.00K
LEEDS	6/23/2024	3:00	Flood		0	0	0.00K	0.00K
LEEDS	6/23/2024	10:00	Flood		0	0	0.00K	0.00K
SIOUX CITY	6/24/2024	19:00	Flood		0	0	0.00K	0.00K
SERGEANT BLUFF	7/7/2024	16:50	Hail	1.25 in.	0	0	0.00K	0.00K
WOODBURY (ZONE)	7/13/2024	12:00	Excessive Heat		0	0	0.00K	0.00K
SIOUX CITY	7/28/2024	14:40	Flash Flood		0	0	0.00K	0.00K
LEEDS	7/28/2024	15:00	Flash Flood		0	0	0.00K	0.00K
LAWTON	7/29/2024	23:02	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
PIERSON	7/29/2024	23:06	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:39	Thunderstorm Wind	52 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:40	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:46	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	7/29/2024	22:45	Thunderstorm Wind	60 kts. MG	0	0	0.00K	0.00K
LEEDS	7/29/2024	22:44	Thunderstorm Wind	62 kts. MG	0	0	0.00K	0.00K
SMITHLAND	7/29/2024	23:08	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K
SPRINGDALE	7/29/2024	22:45	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
WOODBURY (ZONE)	7/31/2024	11:00	Excessive Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/2/2024	12:00	Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/5/2024	12:00	Excessive Heat		0	0	0.00K	0.00K
WOODBURY (ZONE)	8/25/2024	12:00	Excessive Heat		0	0	0.00K	0.00K
SIOUX CITY	8/29/2024	15:30	Flash Flood		0	0	0.00K	0.00K
WOODBURY (ZONE)	10/8/2024	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/1/2024	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	11/20/2024	4:00	Strong Wind	43 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	12/1/2024	0:00	Drought		0	0	0.00K	0.00K
WOODBURY (ZONE)	12/4/2024	12:00	Strong Wind	48 kts. MG	0	0	0.00K	0.00K
WOODBURY (ZONE)	12/19/2024	10:30	Strong Wind	47 kts. MG	0	0	0.00K	0.00K



The vast list of weather events as recorded in NOAA does not include all incidents and effects of extreme weather in Woodbury County, but it does offer a base for consideration of what extreme events occur as well as frequency. The following charts depict Woodbury County’s maximum temperature, minimum temperature, and precipitation by month from November 2019 through December 2024.

Priority Hazards

The county maintained the following as priority hazards.

- Flood – River and Flash
- Dam Failure/Levee Failure
- Tornado/Windstorm

From survey responses, Severe Winter Storms can be added for consideration. The highest frequency of *Very Concerned* was indicated for Flooding, both Flash (45/78) and Riverine (46/78), and Tornado / Windstorm (43/78). When asked to mark the top three priority hazards, Tornado / Windstorm (45/78), Flash Flooding (40/78) Severe Winter Storm (28/78). Dam and Levee Failure figured into many community conversations, however, other risks as indicated were given precedence.

MITIGATION ACTIONS, STRATEGIES, & PROJECTS

Woodbury County has planned several strategies incorporating mitigative activities into new and existing projects.

communication/education		
Promo/Info	Woodbury Co	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.
tools/equipment		
Generator & Related Projects	Woodbury Co	Carry over. Standby generator on site for each Community Center/City Hall as may be designated for command center during a disastrous event. Coordination between <i>County EMA and participating city public works and/or utilities.</i> (Funding TBD pending location and affected population specifications.) LOW PRIORITY
Generator & Related Projects	Woodbury Co	Carry over. Generator still needed. Plans in place to apply for generator through HMGP funding source. There are 2 small mobile generators available

		however, capacity is insufficient for extended period of need. A generator needed at Courthouse; <i>City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Generator & Related Projects	Woodbury Co	New. 1 dedicated/fixe and 1 mobile generator needed for secondary roads to <i>County Board of Supervisors County EMA</i> (Local funds general budget , County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Equipment	Woodbury Co	Carry over. Should funding be available, county will further consider addition of pumps to their inventory. Priority level is decreased in bringing project into current plan. <i>County Engineer</i> (County funds (general budget), IDNR program funds, BRIC/FMA) LOW PRIORITY
development		
flow control		
refuge		
technology		
Improve effectiveness	Woodbury Co	New. County is in the process of developing a Continuity of Operations Plan including alternate worksite locations for county offices in the event of displacement due to disaster, including reprioritization process for alternate work sites.
natural barriers/ supports		

The county has begun the process of assessing opportunity for nuclear energy generation. As the assessment proceeds, the county is actively incorporating mitigation considerations in seeking such development.

JURISDICTIONS

1. ANTHON

a. Profile

The city of Anthon is situated in the center of the east half of Woodbury County. The City is located along State Highway 31, with the majority of the total area situated southeast of the highway. The Little Sioux River serves as the eastern border. Go to www.cityofanthon.com for more local details.

City Governance & Community Supports

Anthon is governed by a five (5)-person elected City Council and the Mayor. Offices in addition to Mayor and Council include City Clerk and Public Works. The Anthon Fire Department is independent of the city but does receive some funding from Anthon. The City contracts with the County for law enforcement and maintains a 28E agreement with Anthon Community Ambulance Service, Inc. for medical response services. This ambulance service is staffed by volunteers. The city of Anthon is a member of the NFIP program.

Demographics, Housing, & Economics

In 2023, CensusReporter.gov⁴⁶ estimates Anthon's population at 531, reflecting an assumed decrease from 545 residents as reported in decennial census data from 2020. The city is home to 277 households and has a median household income of \$52,500, which is below the median for Woodbury County. The community includes a notable number of residents who are age 65 or older, as well as individuals living with disabilities. Additionally, some residents live below the poverty line, indicating ongoing economic challenges for a portion of the population.

<i>Community Characteristics</i>	
Population (2023)	531
Population (2020)	545
Total Households	277
Median Household Income	\$52,500
Median Household Income – Woodbury County	\$64,913

⁴⁶ Source: <https://censusreporter.org/profiles/16000US1902350-anthon-ia/>

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	32	6.6%	7.3%	6.3%
65 years and older	123	25.2%	14.3%	16.0%
Below the poverty level	87	13.4%	14.0%	12.0%
Living with a disability	87	13.4%	12.4%	11.6%

Anthon has a total of 296 housing units, with 277 currently occupied and 19 vacant. The housing stock includes a small number of mobile homes. Most of the residential structures were built in 1969 or earlier, with a smaller portion constructed between 1970 and 1999, and only a few built after 2000. This suggests that much of the town's housing is older, reflecting a more established residential landscape.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	296	-
Occupied	277	93.6%
Vacant	19	6.4%
Mobile Homes	5	1.7%
<i>Age of Residential Structure</i>		
Built 2000 or later	9	3.0%
Built 1970 – 1999	44	14.9%
Build 1969 or earlier	243	82.1%

More demographic and community data can be found on the [U.S. Census webpage for Anthon](#).

Leading Employers

- Maple Valley-Anthon Oto Community Schools
- Fireside Steak and Lounge

Critical Facilities

City Hall	301 E Main St,
Substation	Hwy 31 South
(Community) Event Center	110 N 5th Ave
Stahl Park	510 State St
Sewer Plant/Lift Station	
House, Pump, & Well	506 W Main St
Warehouse/Office	200 W Main St
Pump House/Warehouse	504 W Main St
Town Hall	301 E Main St
Town Garage	510 W Main St
Water Treatment Plant	508 W Main St
Water Tower	501 W Bridge St
Well & Control Panel	601 E Bridge St
Honey House	506 State St
Hamann Memorial Library	311 E Main St
Sand Bunker	South End of Town @ Tree Dump
O'Neil Park	
Lee Schroeder Memorial Park	203 Westgate Rd
Forsling Park	

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

Anthion Fire-Rescue	4035 Fox Ave
US Post Office	109 N 2nd Ave
MVAO Elementary School	110 West Division
Anthion United Methodist Church	401 E Bridge St
St Joseph's Church	400 E Randolph St
Trinity Lutheran Church	106 E Arnold St

Valuation of City Assets

Total Building	\$	8,754,141	RC
Personal Property	\$	30,3160	RC
Property in the Open	\$	<u>2,074,473</u>	<u>RC</u>

b. Participation

A mitigation planning meeting was facilitated by SIMPCO at Anthon City Hall on December 17, 2024 with Nikki Kelsheimer, City Clerk in attendance. Follow up information and additional data was provided by Amy Buck, Deputy Clerk via phone and email.

One survey respondent of 251 submissions indicated Anthon as jurisdiction of residence.

c. Community Capabilities

<i>Capabilities</i>	
Comprehensive Plan (2020)	
Local Emergency Plan	
County Recovery Plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code • Drainage Ordinance • Floodplain Ordinance • Nuisance Ordinance 	<ul style="list-style-type: none"> • Storm Water Ordinance • Subdivision Ordinance • Tree Trimming Ordinance • Zoning Ordinance
<i>Programs</i>	
<ul style="list-style-type: none"> • Tree Trimming Program 	<ul style="list-style-type: none"> • Zoning/Land Use Restrictions
Codes Building Site/Design	Refer to State’s Code
National Flood Insurance Program (NFIP) Participant	CID #190286C
ISO Fire Rating	Anthon Class 8, eff 3/1/1995; Anthon FD, class 8/9, eff 3/1/95
<i>Staff/Department</i>	
Building Code Official	Mayor
Building Inspector	Mayor
Public Works Official	Public Works Superintendent
Emergency Manager	City Clerk @ city level
Emergency Response Team	Anthon Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	McNiff Post 389
Community Organizations	Anthon Community Development Corporation

<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water, sewer, 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 Deputy Clerk serving as Floodplain Administrator. Anthon has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication /education		
tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/ supports		
Stabilization	Anthon	2020: Riverbank stabilization @ access point; City administration (City funds, Disaster funds, PDM) HIGH PRIORITY
		Update. Stabilization was implemented, however, the city would like a more permanent solution to reduce continuous rip rap replacement. Project will carry into 2025 HMP.

Additional actions taken to introduce mitigation measures include:

- The city has designated the Event Center as refuge/shelter location in the event of an emergency.
- For waterway emergencies, the city has access to the fire department’s boat.
- The city completed upgrades to the water plant in recent years
- Utility service transition to underground electrical lines is in progress.
- The city actively promotes Alert Iowa to residents using community messaging network of signage, city website, and social media.

d. Risk Assessment

Contributing Factors

Floodplain wraps around the east side of Anthon, covering a good portion of the city's southeast quadrant. Most affected land is designated for agriculture use. Only two events are reported showing Anthon in the NOAA Storm Event database between 11/01/2019 and 12/31/2024.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
ANTHON	12/15/2021	16:34	Thunderstorm Wind	74 kts. EG	0	0	75.00K	0.00K
ANTHON	4/26/2024	11:06	Hail	1.00 in.	0	0	0.00K	0.00K

Priority Hazards

- Flood – Flash and River
- Thunderstorm w/Hail & Lightning
- Tornado/Windstorm

The city's determination of priority hazards is consistent with the record of events and the single survey as submitted for Anthon. Extreme heat is also indicated as a priority concern.

e. Mitigation Needs, Actions, & Strategies

In addition to the mitigation-specific stabilization project for Anthon described below, the city is also seeking to improve inner-community communications. Their current texting service is expensive and inadequate for anticipated uses.

communication / education		
Promo/Info	Anthon	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 (no funds needed) HIGH PRIORITY</i>

tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/ supports		
Stabilization	Anthon	Carry over. Riverbank stabilization @ access point. Routine efforts are made using rip rap. City is seeking long-term solutions to reduce recurring maintenance. City administration (City – General funds, Disaster funds, PDM) HIGH PRIORITY

2. BRONSON

a. Profile

The city of Bronson is centrally located in the western half of Woodbury County. County Highways K42 and D38 intersect in Bronson. Elliot Creek runs through the southeast corner of city limits, and Elliot Creek and Deer Creek converge just east of the City.

City Governance & Community Supports

Bronson is governed by a five (5)-person elected City Council and the Mayor. Offices in addition to Mayor and Council include City Clerk. Fire and rescue services are provided by the Bronson Fire Station, which is staffed by volunteers. The City contracts with the County for police protection services.

Bronson is a member of the NFIP program. The Municipal Code of Ordinances and the Comprehensive Plan are both in the process of being updated. The Municipal Code of Ordinances were updated in 2019.

Demographics, Housing, & Economics

CensusReporter.org estimates Bronson's population reached 302 in 2023⁴⁷, showing a modest increase from 294 residents in 2020. The community includes 116 households and reports a median household income of \$83,500, notably higher than the median for Woodbury County. While a small portion of the population lives below the poverty line or lives with a disability,

⁴⁷ Source: <https://censusreporter.org/profiles/16000US1908650-bronson-ia/>

Bronson appears to be a relatively affluent and stable community. The age distribution includes a mix of young children and older adults, reflecting a balanced demographic.

<i>Community Characteristics</i>	
Population (2023)	302
Population (2020)	294
Total Households	116
Median Household Income	\$83,500
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	19	6.3%	7.3%	6.3%
65 years and older	33	10.9%	14.3%	16.0%
Below the poverty level	12	3.6%	14.0%	12.0%
Living with a disability	19	6.3%	12.4%	11.6%

Bronson has a total of 118 housing units, with nearly all of them occupied, indicating a high demand for housing and a stable residential base. The community does not include any mobile homes, and most homes were built before 1970, giving the town a more established and historic character. A significant portion of the housing stock was also constructed between 1970 and 1999, while a smaller number of newer homes have been added since 2000. This mix of housing ages suggests a blend of long-standing residences alongside some newer development.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	118	-
Occupied	116	98%
Vacant	2	2%
Mobile Homes	0	0%
<i>Age of Residential Structure</i>		
Built 2000 or later	9	8.1%
Built 1970 – 1999	43	38.7%
Build 1969 or earlier	59	53.2%

Leading Employers

City of Bronson City Hall
Randy's Auto
Lawton-Bronson Community School District
Bronson Bar

Critical Facilities

City Hall/Community Center	100 1st St E
City Maintenance Shed	90 Pine St
Water Tower	214 3rd St
Lift Stations & Related	524 E Front St Front St (West End)
Parker-Smith Athletic Complex	100 Walnut
Well House	213 3rd St
Lagoon	
Bronson Ambulance	
Bronson Ball Park	100-198 Maple Street,

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

City of Bronson City Hall
Randy's Auto
Bronson Bar
Lawton-Bronson Community School District

Valuation of City Assets

For the purpose of cost-benefit considerations, a valuation of the City's assets was compiled based on its insured properties, personal property, and facilities. The value as provided does not include private properties, equipment, or non-city funded investments that may contribute to project determinations. Separately catalogued assets and equipment may not be represented in this value.

Total Blanket TIV	\$	2,325,948
Building	\$	2,253,084
Personal Property	\$	91,740
Misc Property Sched	\$	101,640
Misc Property Unsched	\$	<u>32,340</u>
AOC' Ü	Ɔp	472,548
' nřak' Ü	Ɔp	<u>5,701,137</u>

b. Participation

A planning meeting facilitated by SIMPCO was held via phone conference on December 11, 2024 with the following in attendance.

- Lindy Jessen, City Clerk
- Jason Garnand, Mayor
- Dave West, Councilman

c. Community Capabilities

The city participates in the NFIP program with the City Clerk serving as Floodplain Administrator. Bronson has zero RL/SRL properties. Additional locally developed and available supports in the table below are supplemented by resources available through county, region, and state programs.

<i>Plans/Guidance Documents</i>	
Comprehensive Plan (2020)	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code • Floodplain Ordinance • Nuisance Ordinance 	<ul style="list-style-type: none"> • Subdivision Ordinance • Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
National Flood Insurance Program (NFIP) Participant	CID #190287
Floodplain management program (updated 2023)	

<i>Response</i>	
ISO Fire Rating	Bronson class 9; Bronson FD, class 9/10
<i>Staff/Department</i>	
Public Works Official	
NFIP Floodplain Administrator	role filled by City Clerk
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
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
Ability to withhold spending in hazard prone areas	

Among efforts to improve its capacity for resilience, the city is in the process of updating its tree ordinance to include pre-disaster designation of a scrap site for tree-related debris. The city also added a generator at the city water pump. The installation of a second warning siren has reduced some concern about tornado activity as audible warnings cover the whole community into the immediate surrounding area.

Review of Actions Taken (Since 2019)

communication/education		
Warning Sirens	Bronson	2020: Considering warning siren replacement; Recent repairs were necessary on current siren; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) LOW PRIORITY
Warning Sirens	Bronson	Implemented. The warning siren was replaced in June 2022, at the cost just over \$19,000.
tools/equipment		
Generator & Related Projects	Bronson	2020: Generator for Community Center/City Hall and critical facilities; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Generator & Related Projects	Bronson	Update. Due to lack of funding, the project was not implemented. Carry project into 2025 plan.
Equipment	Bronson	Implemented. City purchased Stair Chair (lift) for ambulance to facilitate building exit for persons otherwise requiring use of a mobility device (such as a wheelchair or walker) in the event of an emergency and/or evacuation when stairs are involved. Cost: \$990. Local funds.
development		

flow control		
refuge		
technology		
natural barriers/ supports		
Retention Pond	Bronson	2020: Consideration to addition of Retention Pond to mitigate flooding; improve effectiveness of natural space in mitigation; <i>City administration, IDNR, Collaboration with County EMA, Contracted engineer services</i> (Local funds, Community Benefit funds, IDNR Program funds, PDM) LOW PRIORITY
Retention Pond	Bronson	Update: Action has not been taken due to other priorities, however project remains a concern for the city and will continue through the 2025 HMP planning period.

In addition to the activities noted in response to the 2020 HMP, Bronson Fire Department added a new pump truck.

d. Risk Assessment

Contributing Factors

Bronson has floodplain designation for nearly half of its incorporated boundaries. Most property to the south of Front Street is agricultural; however, some developed properties are impacted.

Reports to the NOAA Storm Event database⁴⁸ from 11/01/2019 through 12/31/2024 includes the following events.

<u>Location</u>	<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>Inj</u>	<u>PrD</u>	<u>CrD</u>
<u>BRONSON</u>	6/21/2020	5:30	Hail	1.00 in.	0	0	0.00K	0.00K
<u>BRONSON</u>	6/21/2020	5:30	Hail	0.88 in.	0	0	0.00K	0.00K
<u>BRONSON</u>	12/15/2021	16:23	Thunderstorm Wind	61 kts. EG	0	0	25.00K	0.00K
<u>BRONSON</u>	12/15/2021	16:25	Tornado	EF2	0	0	500.00K	0.00K

Priority Hazards

- Flood

⁴⁸ Source: <https://www.ncdc.noaa.gov/stormevents/>

- Grass or Wildland Fire (and its potential effects on local business and residential structures)
- Severe Winter Storms (roadway clearing)

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Bronson	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 (no funds needed)</i> HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Bronson	Carry over. The City is still seeking funding supports and will carry project into 2025 Plan with modified priority level. City has designated Community Center as refuge site/command center in the event of an emergency. A dedicated generator would facilitate that use. <i>City Council, County EMA (Local general budget funds, County supports, State/Federal response funds, PDM, Community Benefits funds)</i> MEDIUM PRIORITY
development		
flow control		
refuge		
technology		
natural barriers/ supports		
Retention Pond	Bronson	Carry over. Assess opportunity to implement retention pond to mitigate flooding through natural methods. <i>County EMA, Contracted engineer services (Local general budget funds, Community Benefit funds, IDNR Program funds, pre-disaster funds as may be available)</i> LOW PRIORITY

3. CORRECTIONVILLE

a. Profile

The city of Correctionville is located in the northeastern portion of Woodbury County, near the county border. Most of the City is located south of and adjacent to U.S. Highway 20, with a small portion situated north of the highway. IA-31 intersects the city as Driftwood Street, connecting the city to Washta to the north and Anthon to the southwest.

Meandering to the north and west is the Little Sioux River. Bacon Creek is located south of the City. The Sioux Bend Wildlife Area is just west of Correctionville and shares a border with the

west bank of the Little Sioux River. South of that is Copland Park, a significant green space. More information can be found at the City of Correctionville website⁴⁹.

City Governance & Community Supports

Correctionville is governed by a five-person City Council and the Mayor. In addition to these offices, the city is also supported by City Hall (City Clerk) Board of Adjustment, Zoning Commission, and two maintenance personnel. Correctionville is also served by two municipal boards, which are the Zoning Commission and the Board of Adjustments. The City contracts with the county for law enforcement services. Fire and rescue services are provided by the Correctionville Fire Department, which is staffed by volunteers. The response team consists of an average of 18 firefighters, with 6 at FF1 status (+4 in training), 1 at FF2 status (+2 in training), and 4 EMTs. Numbers fluctuate with changes in volunteer availability.

Demographics, Housing, & Economics

In 2023, CensusReporter.gov estimated Correctionville’s population⁵⁰ at 746, showing a slight decline from 766 residents in 2020. The community includes 293 households, with a median household income of \$51,125—just below the county median. While the town supports a diverse range of residents, it has a significant number of individuals over 65 and several residents living with disabilities. Additionally, a portion of the population lives below the poverty line, reflecting some economic challenges despite an otherwise modest income level.

<i>Community Characteristics</i>	
Population (2023)	746
Population (2020)	766
Total Households	293
Median Household Income	\$51,125
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	65	8.5%	7.3%	6.3%

⁴⁹ Source: <https://correctionville.govoffice2.com/>

⁵⁰ Source: <https://censusreporter.org/profiles/16000US1916545-correctionville-ia/>

65 years and older	185	24.1%	14.3%	16.0%
Below the poverty level	112	14.8%	14.0%	12.0%
Living with a disability	108	14.7%	12.4%	11.6%

Correctionville contains 336 total housing units, with 299 of those currently occupied and 37 remaining vacant. The housing stock features a mix of structures, with a notable portion built before 1969. A smaller number of homes were constructed between 1970 and 1999, and some more recent development has taken place since 2000. Mobile homes are also present in the community, contributing to the variety of housing options available.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	336	-
Occupied	299	89%
Vacant	37	11%
Mobile Homes	134	4%
<i>Age of Residential Structure</i>		
Built 2000 or later	40	9.6
Built 1970 – 1999	95	22.9
Build 1969 or earlier	280	67.5

More demographic and community data can be found on the US Census Bureau webpage for Correctionville.

Leading Employers

City of Correctionville
River Valley Community School District
Correctionville Nursing & Rehabilitation
Valley Lodge Assisted Living
Nursing Home
Western Iowa Cooperative
Dixon Construction Co
Mathers Construction Co
VT Industries (Holstein)

Critical Facilities

City Hall/Community Bldg	312 Driftwood
Firehouse/Ambulance	315 Cedar
Garage/Storage	
Warehouse	701 5th St
Tennis Court	824 Hackberry
Library	532 Driftwood
City Maintenance	705 5th St
Water Tower	
Water Treatment Plant	
Pump House	
Pool Facility & Related	815 8th St
Pump House	
Emergency Well	416 7th St
Generator Bldg/Lift Station	4138 160th St
American Legion Bldg	119 Driftwood
Military Displays	
Copeland Park	4173 S Hwy 31
Storm Siren	522 Driftwood
Van Houten-Southwell Roadside Park	4138 160 St

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

River Valley High School
Correctionville Nursing & Rehabilitation
Valley Lodge Assisted Living
MercyOne Correctionville Family Medicine
Los Amigos
GAR Hall / Vet Center
Church of Christ
Grace Lutheran Church
Grace United Methodist Church

Valuation of City Assets

Total Blanket TIV	\$	6,714,061
Building	\$	6,158,635
Personal Property	\$	679,964
Misc Property Sched	\$	363,248
Misc Property Unsched	\$	<u>176,256</u>
Total TIV	\$	7,378,102
APD TIV	\$	1,843,944
Grand Total TIV	\$	<u>9,222,046</u>

Both public and private properties directly affected by a given project will be considered in appropriate context. A Water Systems Improvements project, for example, is in the planning stages and includes replacement of the water tower, well, and water mains – all of which were impacted in the 2019 and 2024 flood events. Generators and/or connections for generator hookups where applicable will be included in final project plans.

b. Participation

SIMPCO facilitated a mitigation planning meeting Correctionville City Hall December 23, 2024 with the following in attendance.

- April Putzier, City Clerk
- Amanda Curtin, Deputy Clerk
- Pat Langschwager, Roads/Sewer (City Maintenance)

Three surveys of the 78 submitted for Woodbury County indicated residence in Correctionville.

c. Community Capabilities

<i>Capabilities</i>
Comprehensive Plan
Local Emergency Plan
Watershed Plan

Firewise or other fire mitigation plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> Floodplain Ordinance Nuisance Ordinance Subdivision Ordinance Provision for Historic Preservation 	<ul style="list-style-type: none"> Tree Trimming Ordinance Zoning Ordinance (2023 – new map) Provision for Drainage
<i>Programs</i>	
Zoning/Land Use Restrictions	
National Flood Insurance Program (NFIP) Participant	Yes, CID #190288C
ISO Fire Rating (not updated)	Class 8/9
Property Acquisition	as needed
Planning/Zoning Boards	
Tree Trimming Program	
<i>Staff/Department</i>	
Public Works Official	
Emergency Management Coordinator	City Clerk is the emergency manager for the city
Emergency Response Team	Fire and Rescue
Historic Preservation	
<i>Non-Governmental Organizations</i>	
<ul style="list-style-type: none"> Chamber of Commerce Community Betterment Club 	<ul style="list-style-type: none"> Veterans Groups
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water, sewer services	
TIF Districts (implemented in 2018 and 2024)	
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. As of October 2025, Correctionville has one RL/SRL property.

Community	Most Recent Date of Loss	# RL Properties	# of Losses	Net Building Payment	Net Contents Payment	Total Net Payment
CORRECTIONVILLE	6/20/1983	1	2	\$ 5,942.69	\$ 4,385.10	\$ 10,327.79

A Municipal Code of Ordinances update is in progress. Removal of dead/diseased trees is ongoing with priority given to visibly distressed trees. The Watershed plan is under review with implementation planned to include mitigation projects as identified in the Mitigation Needs, Actions, and Strategies table at the end of this profile.

Review of Actions Taken (Since 2019)

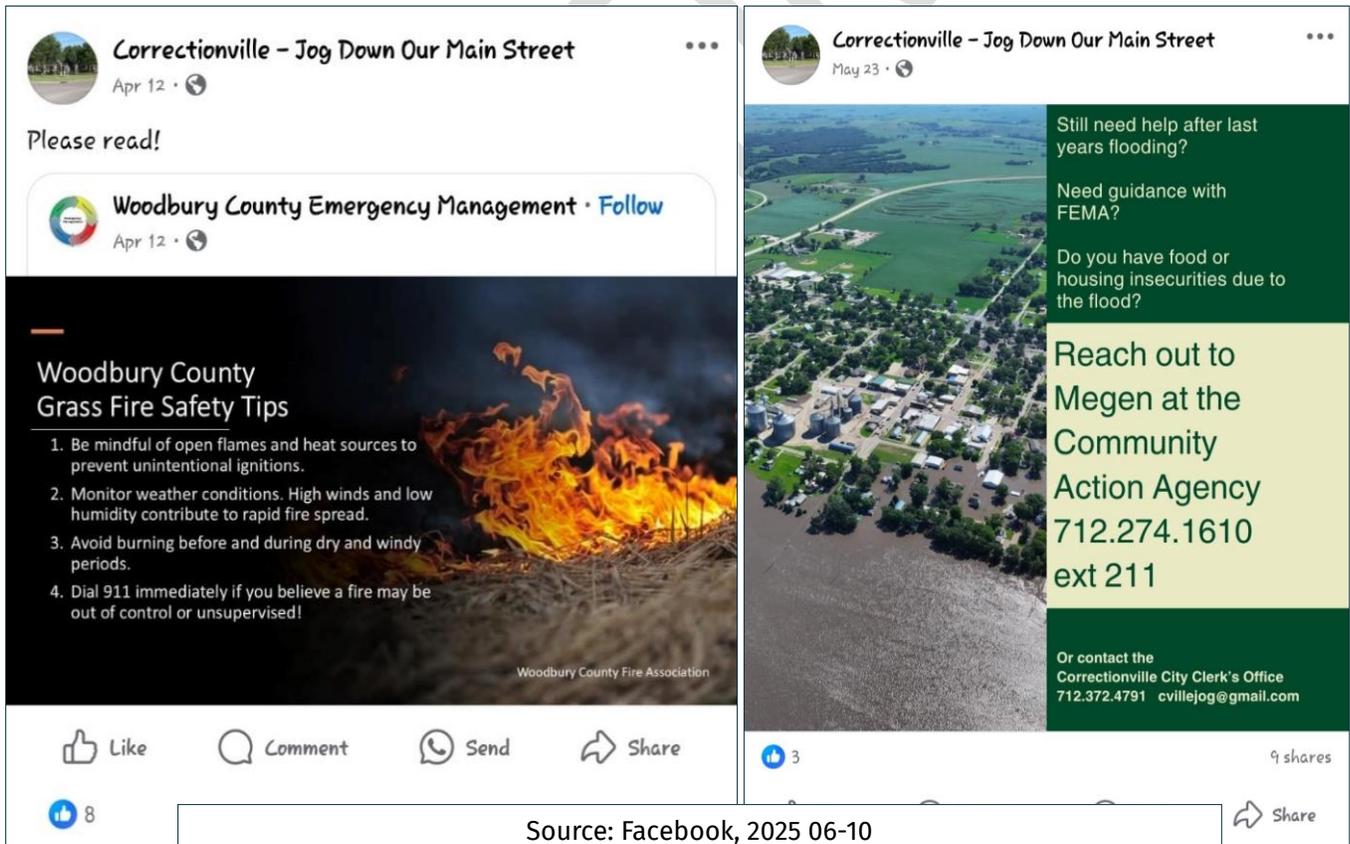
communication/education		
tools/equipment		
Equipment	Correctionville	2020: ATV with water tank capacity - remote access for fire response and other uses as applicable; <i>City Council, Fire Chief</i> (City funds, Fire Department funds, Fire Association funds, fundraisers, Community Benefit funds, Federal funds for response programs) HIGH PRIORITY
Equipment	Correctionville	Complete. \$55,000 project complete 2022 – funded through grant (USDA).
development		
flow control		
Drainage projects	Correctionville	2020: Implement drainage projects as identified; <i>City Administrator/Streets/Public Works</i> (Local funds, IDNR project funds, PDM) HIGH PRIORITY
Drainage projects	Correctionville	Update: Driftwood Street ditches completed. Additional areas in need of attention.
refuge		
Shelter	Correctionville	2020: Considering means of enabling refuge when community center and city hall are not open. Assess feasible options in accessing when otherwise closed, or alternate location available 24 hrs. <i>City administration, Local services, agencies, businesses</i> (Local funds – additional supports unknown until solution has been identified) MEDIUM PRIORITY
Shelter	Correctionville	Implemented. Community Center remains unlocked during anticipated extreme weather events, particularly in winter. The school was designated as command center, recovery center, and temporary residence for displaced families during the 2024 flood events.
technology		
natural barriers/ supports		

d. Risk Assessment

Contributing Factors

A review of reports in the NOAA Storm Event database from 11/01/2019 through 12/31/2024 provided only two records specific to Correctionville. However, local records provide a different picture. It is important to note that the NOAA database is contributor-sourced and is therefore somewhat limited. Those experiencing extreme effects of natural disasters, such as the severe flooding that occurred 6/24/2024, rarely have the afterthought of updating such reports. The following table underrepresents both property and crop losses due to that specific flood event.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
CORRECTIONVILLE	4/12/2022	16:15	Hail	1.75 in.	0	0	0.00K	0.00K
CORRECTIONVILLE	6/15/2024	20:08	Thunderstorm Wind	70 kts. EG	0	0	0.00K	0.00K



Source: Facebook, 2025 06-10

Correctionville is substantially affected by flooding potential, surrounded on the north, west and south by floodplain. While still in the preliminary stages, the Iowa Flood Center map shows a significant area on the city’s west and south sides in the floodway. Such designation is restrictive to community growth and recovery opportunities within that zone. The north end of town is protected from riverine flooding by a hill that serves as a natural berm. However, the Little Sioux River continues through lower-level land areas, as does Bacon Creek, enabling accumulated collection of flood waters in both river flooding and flash flood events. Property acquisition is under consideration by the city as means of mitigating future loss and damages. If pursued, acquired property in part will be designated and maintained as a wetlands conservation area, and will likely evolve into an education site.

As flood and other natural events continue to intensify in frequency and severity, the city uses existing resources to further awareness for such events. The city provides education to residents on disaster preparedness through promotion of the Alert Iowa system, sharing information on Facebook, and having info cards available at City Hall.

The City of Correctionville does have repetitive loss properties recorded in the FEMA NFIP flood database.

County	Woodbury County
Community	Correctionville
Most Recent Date of Loss	6/20/1983
# of Repetitive Loss Properties	1
Number of Losses	2
Net Building Payment	\$5,942.69
Net Contents Payment	\$4,385.10
Total Net Payment	\$10,327.79

Priority Hazards

The city maintained the priority hazard designations as indicated in the 2020 plan as follows.

- Flood
- Tornado/Windstorm

- Grass and Wildland Fire

Survey respondents indicated Flooding – both Flash and Riverine at the highest frequency under “Very Concerned”. When asked to choose top hazards, Drought and Flood topped the list.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Correctionville	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		
development		
Improve existing facilities & infrastructure	Correctionville	New. City is in the planning stages of replacing its critical water systems infrastructure. The well, water tower, and water mains are all in need of replacing. Generators/transfer switches anticipated as part of planned projects where applicable. Public works, contracted services, IDNR, USDA (Disaster Recovery funds, CDBG, USDA, local general budget funds, SRF for design) HIGH PRIORITY
flow control		
Drainage Projects	Correctionville	Carry over. Continue implementation of drainage projects. Additional areas need attention. Project will be recurring with opportunity to instill better long term controls should such process be made known. Implement drainage projects as identified. Citywide culvert and ditch maintenance improvements including but not limited to bigger culverts, dredging ditches, add drainways where appropriate. <i>City Maintenance</i> (Local operations and road use funds, IDNR project funds, PDM) HIGH PRIORITY
refuge		
Shelter	Correctionville / River Valley School District	New. Formalize shelter/refuge/command center designation(s) and declaration process specific to hazard type and need. <i>City Maintenance, River Valley School District, County EMA.</i> (No funding needs anticipated) HIGH PRIORITY
technology		
natural barriers/ supports		

4. CUSHING

a. Profile

The city of Cushing is located near the eastern border of Woodbury County, occupying about .3 square miles. The city is south of US Highway 20 and bisected by 160th Street. Several small creeks and streams travel through city boundaries including Bacon Creek to the north.

City Governance & Community Supports

Cushing is governed by a five (5)-person elected City Council and a Mayor. Offices in addition to the Mayor and Council includes the City Clerk and Maintenance. The Cushing Fire Department is staffed by volunteers and provides emergency response services. The City contracts with the county for law enforcement services.

Demographics, Housing, & Economics

For 2023, CensusReporter.org estimates Cushing's population⁵¹ at 223, reflecting a slight decrease from 230 residents in 2020. The community includes 75 households and reports a median household income of \$70,139, which is notably higher than the county median. Despite this relatively strong income level, some residents face challenges, including those living with disabilities or below the poverty line. Additionally, the town is home to both young children and older adults, highlighting a diverse age range among its population.

<i>Community Characteristics</i>	
Population (2023)	223
Population (2020)	230
Total Households	75
Median Household Income	\$70,139
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	18	8.5%	7.3%	6.3%
65 years and older	32	15%	14.3%	16.0%

⁵¹ Source: <https://censusreporter.org/profiles/16000US1917940-cushing-ia/>

Below the poverty level	49	22.1%	14.0%	12.0%
Living with a disability	21	9.9%	12.4%	11.6%

Cushing has a total of 77 housing units, the majority of which are occupied, with only a small number of vacancies. The housing stock is primarily composed of older homes, with most residential structures built before 1970. A smaller number of homes were constructed between 1970 and 1999, and only a few have been built since 2000. The community does not have any mobile homes, reflecting a housing landscape made up entirely of traditional residential structures.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	77	-
Occupied	75	97%
Vacant	2	3%
Mobile Homes	0	0%
<i>Age of Residential Structure</i>		
Built 2000 or later	4	3.9%
Built 1970 – 1999	36	35.0%
Built 1969 or earlier	63	61.2%

Leading Employers

Wiese Construction
Anfinson Farm Store
United Bank of Iowa
Shever Family Trans, Inc.
Squatch Construction
Old 20 Bar

Critical Facilities

City Hall	200 Main St,
Fire Department	201 Main St
City Maintenance Shop	203 Main St
Water Tower	302 Hill St

Pump House/Pump	1 st St
Pump House	90 Valley St
	101 Valley St
Library	202 Main St
Storage Shed	204½ Main St
City Park	

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

Fire Station / Community Center	
Legion Hall	
St. John Evangelical Lutheran Church	206 School Street
Cushing Methodist Church	506 2 nd Street
Old 20 Bar	310 3 rd Street

Valuation of City Assets

Total Building	\$	375,112	ACV
	\$	2,428,154	RC
Total Personal Property	\$	7,492	ACV
	\$	231,969	RC
Total Property in the Open	\$	<u>1,171,720</u>	RC
Combined Total	\$	<u>4,214,447</u>	

b. Participation

A mitigation planning meeting was facilitated by SIMPCO on January 7, 2025 at Cushing Town Hall. The following city representatives were in attendance.

Jesse VanHouten, Mayor

Brennan Hoaglund, Councilmember

Nicole Huisinga, City Clerk

Keith Jackson, Councilmember

Shawn M Joy, Councilmember

Mary Tyler, Councilmember

Cushing residents accounted for five of Woodbury County's 78 surveys as submitted for public input. Responses are included in section summaries where applicable.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
<ul style="list-style-type: none"> Comprehensive Plan 	<ul style="list-style-type: none"> Flood Mitigation Assistance (FMA) Plan
<i>Policies/Ordinance Updated 2023</i>	
<ul style="list-style-type: none"> Building Code Drainage Ordinance Floodplain Ordinance Landscape Ordinance 	<ul style="list-style-type: none"> Nuisance Ordinance Storm Water Ordinance Tree Trimming Ordinance
<i>Programs</i>	
Codes Building Site/Design	<i>Included in Code of Ordinances Residential Dwelling Standards</i>
National Flood Insurance Program (NFIP) Participant	CID# 190289C
ISO Fire Rating	Cushing class 8, Cushing FD class 9/9
<i>Staff/Department</i>	
Public Works Official	
Emergency Management Coordinator	City Clerk is the emergency manager for the city
NFIP Floodplain Administrator	Authority of the Mayor or Fire Chief
Emergency Response Team	Cushing Fire and Rescue
Law enforcement contracted through County	
<i>Non-Governmental Organizations</i>	
Veterans Groups	F Roger Baumann Legion and Auxiliary
Community Organizations	<ul style="list-style-type: none"> Betterment Club Business Club Old 20 Community Development Corp
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water and sewer services	
Impact fees for new development by way of sewer and water connection fees for new homes	
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. Cushing has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
development		
Improve existing facilities & infrastructure	Cushing	2020: Extensive repairs on City Hall/Community Building necessary due to cumulative damages from wind, heavy snow, heavy rain, and fluctuating weather conditions. <i>City Council, City Maintenance</i> (City funds, Community Catalyst Building Remediation funds, Facility Improvements funds, PDM) HIGH PRIORITY
Improve existing facilities & infrastructure	Cushing	Completed. \$20- to \$30,000 has been invested in City hall improvements. Over \$1M have been invested in water systems improvements including a lift station and water distribution system improvements. Funding included \$350,000+ DNR grant, IFA funds, \$890,00 loan, and \$150,000+ in imminent threat funds (water mains).
flow control		
refuge		
technology		
natural barriers/ supports		

Tree removals are in progress with 9 complete and 13 remaining in the park. Approximately 10 in parking and rights of way not yet addressed. A replacement plan is not in place, however the city is in communications with the state arborist.

d. Risk Assessment

Contributing Factors

Geographically, Cushing sits with its north and west borders adjacent to floodplain, along with much of its east border. Old Hwy 20 is particularly prone to flash flooding in heavy rain.

A review of the NOAA Storm Event database provided zero reports directly associated with Cushing between 11/01/2019 and 12/31/2024, however, residents likely experienced the effects of the 104 Woodbury (Zone) events. It is important to note that NOAA is a user-fed data base

where individuals submit reports of local weather events. It is possible that no current residents are contributors.

Priority Hazards

- Infrastructure Failure (facilities and streets repair needs)
- Tornado / Windstorm
- Severe Winter Storm

Tornado/Windstorm figured in at the highest frequency of Very Concerned. When asked to indicate the respondents' top three hazards, Infrastructure Failure and Drought followed Tornado/Windstorm.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Cushing	New. City is committing to incorporating public awareness for disaster preparedness through promotion of Alert Iowa system and other available resources through Woodbury Co EMA. <i>City Clerk, Council, County EMA (no funding needs anticipated).</i> HIGH PRIORITY
tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/ supports		

5. DANBURY

a. Profile

The city of Danbury is located in the southeastern corner of Woodbury County. State Highway 175 runs diagonally through the southeastern portion of the city. Maple River is located south and east of city limits, and several smaller streams are present to the north and west. More information can be found on the Danbury website.

City Governance & Community Supports

Danbury is governed by an elected five (5)-person City Council and a Mayor. Offices include City Clerk/Treasurer and City Maintenance. The City contracts with the County for law enforcement. Danbury has a volunteer fire department, which is supported by surrounding communities. Danbury contracts with Danbury Ambulance Service for emergency response.

Portions of Danbury are located within the floodplain (Zone A); however, the city is not a member of the NFIP program.

Demographics, Housing, & Economics

CensusReporter.org estimates Danbury's 2023 population⁵² at 311, reflecting a slight decrease from 320 in 2020. The town is home to 172 households, with a median household income of \$64,028, which is well above the county average of \$51,350. Despite this relatively strong economic position, a portion of the population lives below the poverty line. The community also includes a significant number of seniors, and many residents are living with a disability. Overall, while Danbury boasts a solid economic foundation, there are still challenges, particularly among its older residents.

<i>Community Characteristics</i>	
Population (2023)	311
Population (2020)	320
Total Households	172
Median Household Income	\$64,028
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	19	6.5%	7.3%	6.3%
65 years and older	74	25.4%	14.3%	16.0%
Below the poverty level	34	11.3%	14.0%	12.0%
Living with a disability	49	16.8%	12.4%	11.6%

⁵² Source: <https://censusreporter.org/profiles/16000US1918390-danbury-ia/>

Danbury has a total of 162 housing units, with the majority being occupied and a smaller portion vacant. Most of the homes were built prior to 1970, with a significant number also constructed between 1970 and 1999. A small number of homes were built after the year 2000. The town does not currently have any mobile homes, reflecting a predominantly traditional housing structure.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	162	
Occupied	139	86%
Vacant	23	14%
Mobile Homes	0	0.0%
<i>Age of Residential Structure</i>		
Built 2000 or later	8	4.2%
Built 1970 – 1999	58	30.2%
Build 1969 or earlier	126	65.6%

More demographic and community data can be found on the US Census Bureau webpage for Danbury.

Leading Employers

- Barry Motors
- Bluejay Boutique
- Colbert's Market
- Danbury Catholic Schools
- First Security Bank
- GFG
- KCK Convenience Store
- Nutrien Solutions
- Premier Roofing Systems
- Sexton Oil
- Shelby County State Bank
- Shrank's Bar & Grill
- Welte Vault Co.

Critical Facilities

City Hall	207 1st St,
Danbury Fire Department	201 Main St
Danbury Ambulance Service	201 Main St

Library	215 Main St
Storage Facility	
Water Tower	
Shop/Water Treatment Plant	108 2nd St
Well House	
Water Treatment Tank	
Lagoon	
Lift Station	L37
City Ballpark	West edge of 3rd St
City Park	W 2nd & 4th Sts
Dana Apartment Bldg	303 Main St
Health & Recreation Facility	206 East St

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

St. Mary's Catholic Church and School	604 Peach Street
Danbury United Methodist Church	200 Liston St
Schrank's Bar & Grill	117 Main St

Valuation of City Assets

Total Blanket TIV	\$	5,468,785
Building	\$	4,553,509
Personal Property	\$	949,824
Misc Property Sched	\$	104,907
Misc Property Unsched	\$	<u>32,533</u>
Total TIV	\$	5,640,773
APD TIV	\$	89,703
Grand Total TIV	\$	<u>5,730,476</u>

b. Participation

SIMPCO facilitated an online mitigation planning meeting via Teams on February 25, 2025 with Cristy Nelson, Danbury City Clerk in attendance.

One survey was returned indicating Danbury as jurisdiction of residence.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	
<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 • Zoning Ordinance
<i>Programs</i>	
ISO Fire Rating	Danbury class 7; Danbury FD class 9/9
NFIP Non-Participant	# 190290C
Property Acquisition	
<i>Staff/Department</i>	
Public Works Official	
Emergency Management Coordinator	City Clerk @ local level
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	Carlson-Frum American Legion
Community Organizations	Danbury Community Club
<i>Local Funding Availabilities and Authorities</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
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

Danbury's Municipal Code of Ordinances is currently under revision. An urban renewal area has been designated, however, the program has not been utilized. At the time of the planning meeting, the city was in the process of filling the vacant Public Works position.

The city has determined that costs of NFIP participation exceed reasonable return on investment for areas as potentially affected in their floodplain. Danbury is a non-participant of NFIP, CID #190290C. **The city has zero RL/SRL properties.**

Review of Actions Taken (Since 2019)

communication /education		
Warning Sirens	Danbury	2020: Warning Siren needs replacing; <i>City Council, County EMA</i> (Local funds, County Funds, PDM, Community Benefit funds) HIGH PRIORITY
Warning Sirens	Danbury	Complete. Warning siren installed 2020+/- . Project was funded through various local grant programs.
tools/equipment		
Generator & Related Projects	Danbury	2020: Portable generator <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Update. Project still needed. Lagoon project has taken precedence for current year. Project will carry to 2025 HMP.
Equipment	Danbury	2020: Pumps; <i>City Council, Public Works, collaboration with County EMA</i> (Local funds, County funds, Community Benefit funds, fundraising, Federal programs, PDM) HIGH PRIORITY
		Resolved. City has worked out agreement with Fire Department. FD will provide equipment as needed.
	Danbury	2020: Utility ATV/snowmobile; <i>City Council, Fire Chief, Public Works, collaboration with County EMA</i> (Local funds, County funds, Community Benefit funds, fundraising, Federal programs, PDM) MEDIUM PRIORITY
		Complete. City purchased a Gator in 2020 using local funds.
development		
Bridges & Roads	Danbury	2020: Road repairs from runoff damages. Interest in preventive measures by way of redirection and retention methods. <i>City Maintenance/Council, County Engineer collaboration</i> (City funds, Transportation funds) HIGH PRIORITY
		Complete. Road repairs necessitated by runoff from flood events have been completed and were covered by FEMA funds.
flow control		
refuge		
technology		
natural barriers/ supports		

Other projects completed or in progress:

- New lagoon with dedicated generator
- Most dead/diseased/at risk trees in city parks and rights of way have been removed

- Community Club has been gradually adding trees since 2022+/- to balance those removed. No formal plan in place.

d. Risk Assessment

Contributing Factors

A review of the NOAA Storm Event database includes one report specific to Danbury. It is important to note that the database is user-based record of events, not necessarily a collection of all known events. Due to proximity, Danbury likely experienced of all recorded county zone events for Woodbury, Ida, Monona, and Crawford Counties.

<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>
DANBURY	12/15/2021	16:38	Thunderstorm Wind	64 kts. EG	0	0	10.00K	0.00K

Preliminary Iowa Flood Plain maps, a coordinated effort between Iowa DNR and the Iowa Flood Center, indicate a significant amount of floodplain surrounding Danbury, but not affecting any current structures.

Priority Hazards

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

Additional concerns in discussion and through survey response include Flood (both flash and riverine), Animal/Plant/Crop Disease, Hazardous Materials Incidents, and Transportation Incidents.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Danbury	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 (no funds needed) HIGH PRIORITY</i>
tools/equipment		
Generator & Related Projects	Danbury	Carry over. Portable generator needed for water plant with potential to serve various facilities. Added: Transformer switches needed to enable connections. <i>City Council, County EMA (Local general budget funds, County supports, State/Federal response funds, PDM, Community Benefits funds, local funds) HIGH PRIORITY</i>
development		
flow control		
refuge		
technology		
natural barriers/ supports		

6. HORNICK

a. Profile

The city of Hornick is situated near the southernmost border of Woodbury County, just west of center. Most of the city lies north of Highway 141, with about 20% of the total area extending south of the highway.

City Governance & Community Supports

Hornick is governed by a five (5)-person elected council and the Mayor. Offices in addition to Mayor and Council include City Clerk and Public Works. The Hornick Volunteer Fire Department is independent of the City but does receive some funding from Hornick. City staff designates the Legion Hall and the United Methodist Church as significant support entities to community well-being. These and additional community supports are specified in the discussion of Community Capabilities. The City contracts with the County for law enforcement and maintains a 28E agreement with regional emergency response providers.

The City of Hornick is a member of the NFIP program, though the majority of residents are known to be inactive under flood insurance.

Demographics, Housing, & Economics

CensusReporter.org estimates Hornick’s 2023 population⁵³ at 335, a noticeable increase from 255 residents in 2020. The town is home to 117 households, with a median household income of \$77,917, reflecting a relatively stable economic base. However, a portion of the population lives below the poverty line, suggesting that some households may face economic challenges.

Hornick has a total of 128 housing units, with 116 of them occupied. The town has a relatively low vacancy rate, with only 12 vacant units. A small portion of the housing units are mobile homes. The majority of the homes were built in 2000 or later, with a smaller number constructed between 1990 and 1999, and a few built before 1990.

Leading Employers

New Cooperative
3-Speed Repairs
Chance "R" Bar

Critical Facilities

City Hall; Fire Dept Garage	400 Main St
Community Center	419 Main St
Water treatment Facility	420 Main St
Maintenance Shop	
Water Tower	Lots 16-18, Block 7
Museum	201 Main St
City Park	405 4 th St, Ste 1
Library	510 Main St
Lift Station	208 4 th St
Garage	406 5 th St

⁵³ Source: <https://censusreporter.org/profiles/16000US1937200-hornick-ia/>

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

In addition to businesses designated as Leading Employers, the following serve as community centers and gathering locations.

Legion Hall	306 Main St
United Methodist Church	411 5 th St

Valuation of City Assets

Total Building	\$	3,390,402
Total Personal Property	\$	301,066
Total Property in the Open	\$	<u>712,592</u>
Combined Total	\$	<u>4,404,060</u>

b. Participation

A mitigation planning meeting, facilitated by SIMPCO, was held at Hornick City Hall on February 10, 2025 with the following in attendance.

- Scott Mitchell, Mayor
- Lori Teel, City Clerk
- Mat Andresen, City Council
- Scott Mathias, City Council
- Eric Bebee, City Council
- Steve Holst, City Council
- Dustin Johnson, City Council

Hornick residents accounted for 7 of Woodbury County's 78 survey responses, providing additional consideration regarding natural hazard concerns.

c. Community Capabilities

<i>Plans/Guidance Documents</i>
Comprehensive Plan
<i>Policies/Ordinance</i>

<ul style="list-style-type: none"> • Floodplain Ordinance (updated per DNR) • Nuisance Ordinance • Restricted Residence District • Storm Water Ordinance 	<ul style="list-style-type: none"> • Subdivision Ordinance • Tree Trimming Ordinance • Subdivision Regulation
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190291C
ISO Fire Rating	Hornick, Class 8; Hornick FD, Class 8/9
<i>Staff/Department</i>	
Engineer	County representation; Contracted consult as needed
Public Works Official	Public Works Superintendent
Emergency Management Coordinator	City Clerk @ local level
Emergency Response Team	Hornick Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	<ul style="list-style-type: none"> • Hindman-Steele American Legion and Auxiliary • Sons of the Legion
Community Organizations	Library Group
<i>Local Funding Availabilities & Authorities</i>	
Community Development Block Grants	
Capital Improvements funding	
Authority to levy taxes for a specified purpose	
TIF District allocations as applicable	
Fees for water, sewer	
Incur debt through	<ul style="list-style-type: none"> • general obligation bonds • private activities • special tax bonds
Withhold spending in hazard prone areas is in place but unlikely to be used.	

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

Review of Actions Taken (Since 2019)

communication /education		
Programs	Hornick	2020: Assess opportunities for homeowners with uninhabitable properties months after flood events of 2019; <i>City Council/Administration SIMPCO</i> (no cost allocated outside of staff hours for assessment) MEDIUM PRIORITY

		Closed. Based on city finances, skewed market value of homes/property, and ability to repurpose flood-prone areas, the city determined implementation of a home acquisition program is not feasible. City will continue to monitor potential of opportunities as they arise, however, the project is removed from the priority list.
tools/equipment		
development		
flow control		
Flood protection	Hornick	<p>2020: Berm/raised rec trail to protect city from Ditch flooding; <i>City Council, County EMA, engineering consultant</i> (PDM and FEMA Disaster funds) HIGH PRIORITY</p> <p>Update – Phase 1, the mitigation portion of the project is complete. Berm has been substantially raised with primary phase of project completed 12/2024. Funded with IA Flood Mitigation dollars, the \$2.1M project included the development of a local Flood Mitigation Board.</p> <p>Phase 2 of the project, the trail, is not complete. The trail remains on the city’s project list but will not be carried into the 2025 HMP as a mitigation action.</p>
refuge		
technology		
natural barriers/ supports		

Other projects completed since 2019 include the following.

<i>Project description</i>	<i>Funding Sources</i>	<i>Cost</i>
1. Raised generator at lift station 3.5'. Included new generator.	local funds, MRHD Grant	\$50K
2. New water plant. Project began prior to 2019 flood, finally completed. Includes additional shop space.		\$360K
3. Drainage issues overall improved with berm-raising project		
4. Road work repairs/replacement due to 2019 flood in progress. Repairs include improved storm runoff controls through sloped channel, and ditch clearing. Anticipated completion: Fall 2025	FEMA 404 project	\$2.4M
5. Ash trees treated to sustain current tree canopy		
6. County re-did Main St . City addressed ADA improvements to sidewalk concurrently.	Federal Hwy program funds, local funds	
7. Improved response equipment with purchase of		
• Payloader	MRHD	
• Skid loader	local funds, community grants	

d. Risk Assessment

Contributing Factors

The events related to the flood in 2019 are still primary consideration in city planning efforts as Hornick pulls itself back together. NOAA Storm Event database records between 11/01/2019 and 12/31/2024 include only 2 reports specific to Hornick, though the city likely experienced the effects categorized as “Zone” under Woodbury County and Monona County.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
HORNICK	12/15/2021	16:19	Thunderstorm Wind	65 kts. EG	0	0	25.00K	0.00K
HORNICK	4/12/2022	16:22	Hail	1.00 in.	0	0	0.00K	0.00K

Priority Hazards

- Tornado / Windstorm
- Flood – Flash and River
- Grass and Wildland Fire

Survey responses include Thunderstorm with Hail & Lightning at a relatively high frequency in addition to those as determined above. When asked to choose top three hazards, Infrastructure Failure joins all those as listed.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Programs	Hornick	New. Interest in implementing Smoke Detector check/install program in collaboration with Fire Department and County departments as applicable (i.e. Health, EMA). City is aware that county has units available. Distribution & Install process not established. <i>City, City Fire Department, County EMA, FD</i> (no funding needs anticipated) MEDIUM PRIORITY
Promo/Info	Hornick	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		

Equipment	Hornick	New. Interested in new communications radios. Potentially available through County supports. <i>City staff, County EMA</i> (Local funds - general budget , Response/Community Safety programming) MEDIUM PRIORITY
development		
flow control		
refuge		
technology		
natural barriers/ supports		

7. LAWTON

a. Profile

The city of Lawton is centrally located in the northwestern quarter of Woodbury County. Covering about .7 square miles, the majority of the city is situated north of U.S. Highway 20, with a small portion including an assisted living facility located south of the highway. Elliott Creek is located in the western portion of the city and runs north to south. More information can be found on the City of Lawton website at <https://www.lawtoniowa.com/>.

City Governance & Community Supports

Lawton is governed by a Mayor and City Council who are elected by city residents. City Council is composed of five (5) members. Offices in addition to the Mayor and Council include City Clerk and Public Works. The Lawton Community Fire Department is staffed by volunteers and provides fire suppression and rescue services to Banner Township and Concord Township in addition to the City. Lawton has its own ambulance service, the Provisional Paramedic Service, which includes 10 responders and one ambulance. It serves the surrounding 72 square miles. The city's volunteer fire department has an average of 22 firefighters, ready to serve.

Demographics, Housing, & Economics

Based on Census Reporter's 2023 estimates⁵⁴, Lawton's population is 938, reflecting a slight decrease from 943 in 2020. The town is home to 352 households, with a median household income of \$90,278, significantly higher than the Woodbury County median of \$51,350. Vulnerable

⁵⁴ Source: <https://censusreporter.org/profiles/16000US1943905-lawton-ia/>

populations in Lawton include 44 children aged 5 years and younger, and 157 residents aged 65 or older. About 75 residents live below the poverty level, and 65 residents are living with a disability. While Lawton shows a relatively strong economic foundation, these figures suggest that there are still some challenges faced by certain segments of the community.

<i>Community Characteristics</i>	
Population (2023)	938
Population (2020)	943
Total Households	352
Median Household Income	\$90,278
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	44	4.9%	7.3%	5.7%
65 years and older	157	17.3%	14.3%	16.0%
Below the poverty level	75	8.3%	14.0%	11.3%
Living with a disability	65	7.2%	12.4%	18.5%

Lawton has a total of 390 housing units, with 351 of them occupied and 39 units vacant. The town does not have any mobile homes. A significant portion of the housing stock (102 units) was built in 2000 or later, while the remaining homes are older. This reflects a mix of newer and more established homes in the community.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	390	-
Occupied	351	90%
Vacant	39	10%
Mobile Homes	0	0.0%
<i>Age of Residential Structure</i>		
Built 2000 or later	102	26.6%
Built 1970 – 1999	128	33.3%
Build 1969 or earlier	154	40.1%

More demographic and community data can be found on the US Census Bureau site for Lawton.

Leading Employers

Agrivision Equipment
Lawton-Bronson Community Schools
Lawton Senior Living
Pronto Market
Scarecrow Farms (Seasonal)
Western Iowa Telecom

Critical Facilities

Garage	206 W Main
City Hall/Community Center	315 Ash St
Friendship Center	300 Cedar St
Fire Station	104 W Maple
Pump House	300 W Main
City Park	111-113 Tara Way
Water Tower	
Park, Gazebo	SE Corner - Cedar & Maple
Ballpark	1592 Eastland Ave
Water Treatment Facility	321 Ash St
Well Heads; Related	
Sewer Lift Station	301 W Main
Emergency Siren	Maple St

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

Lawton-Bronson Junior High School	100 Tara Way
Lawton-Bronson High School	
American Family Insurance	101 E Maple St
Bethel Lutheran Church	322 Pine St
Bob & Ellen's	311 Cedar St
Community Presbyterian Church	411 E Birch St
The Friendship Center	300 Cedar St
Security National Bank	315 Cedar St

Valuation of City Assets

Total Blanket TIV	\$	6,294,860
Building	\$	6,110,316
Personal Property	\$	239,825
Misc Property Sched	\$	433,696
Misc Property Unsched	\$	251,455
APD TIV	\$	1,503,087
Grand Total TIV	\$	7,035,292

b. Participation

SIMPCO facilitated a virtual mitigation planning meeting via Teams on December 18, 2024. The following were in attendance.

- Tricia Jernberg, City Clerk
- Jesse Pedersen, Mayor
- Justin Dunnington, Public Works Supervisor
- Travis Ludwig, Fire Chief

For additional consideration, four surveys were submitted with jurisdiction indicated as Lawton.

The city's signed Voluntary Participation Agreement, dated 12/18/2024, is on file.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	
<i>Policies/Ordinance</i>	
• Building Code (Standard by reference: IBC)	• Subdivision Ordinance
• Floodplain Ordinance (2024)	• Tree Trimming Ordinance

• Nuisance Ordinance	
Some provisions for Stormwater included in the Code of Ordinances	
Some provisions for Debris Management included in the Codes of Ordinances	
<i>Programs</i>	
Some provisions for Drainage included in the Codes of Ordinances	
National Flood Insurance Program (NFIP) Participant	CID #190292C
ISO Fire Rating	Class 5/5x
Property Acquisition	
<i>Staff/Department</i>	
Public Works Official	Water Superintendent
Emergency Management Coordinator	City Clerk @ local level
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	American Legion Post 718
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
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. Lawton has zero RL/SRL properties.

The city is actively implementing mitigation strategies into planned projects. They have a tree removal plan in place addressing dead/diseased trees in public rights of way and parking. In 2024, approximately \$15,000 was invested, which included replacements in the City Park.

The city has a collaborative relationship with Lawton Senior Living Center to work with response teams to coordinate transfers to the Holstein facility as may be needed in the event of a disaster. The school facilities throughout town host potential for a helipad should such equipment be needed.

The schools are partners with the city in community development efforts. The community center is an identified refuge location if students are displaced during the school day or during school activities. The district has an active Safe Routes to School program reducing the risk of pedestrian/bicyclist vs vehicle crashes.

Review of Actions Taken (Since 2019)

communication/education		
tools/equipment		
Generator & Related Projects	Lawton	2020: Generator needed for Fire Department; <i>Fire Chief, City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Complete. Phase I is complete. A generator has been purchased for the Fire Department. A new project for 2025 HMP is for hook-up and installation.
development		
flow control		
refuge		
Shelter	Lawton	2020: Include tornado-rated safety features in plans for new community center; <i>City administration, Project coordinator, EMA collaboration</i> (Local funds, private funds, fundraisers, PDM) MEDIUM PRIORITY
		Implemented. City constructed a new city hall/community center/maintenance facility that enables reasonable shelter from extreme weather. While not FEMA-level designated, the center has interior space designated as a safe area. The county has designated the new facility has been designated by the county as a recovery center as needed. Project overall cost is about \$1.3M. In addition to city staff, the fire department has access to the building in the event of an emergency or extreme weather conditions.
technology		
natural barriers/ supports		

In addition to completion of a new city building (housing City Hall, the Community Center, and Maintenance), Lawton repaired their warning siren to full function. Approximate cost was \$5,000.

d. Risk Assessment

Contributing Factors

The NOAA Storm Event database included four reports specific to Lawton. The city likely suffered the effects of the 104 Woodbury (Zone) events as well.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
LAWTON	12/15/2021	16:28	Thunderstorm Wind	70 kts. EG	0	0	25.00K	0.00K
LAWTON	12/15/2021	16:28	Thunderstorm Wind	69 kts. EG	0	0	25.00K	0.00K
LAWTON	12/15/2021	16:31	Thunderstorm Wind	69 kts. EG	0	0	10.00K	0.00K
LAWTON	7/29/2024	23:02	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K

Below is a depiction of the Dec 2021 storms that affected much of the region. Storm activity cut through Lawton resulting in extensive damage. The NOAA system, which relies on residential reports, does not include the accurate Tornado designation as determined following the events of that day.

Tornado - LAWTON
Woodbury County

Date	12/15/2021
Time (Local)	4:25 pm - 4:32 pm
EF Rating	EF-2
Est. Peak Winds	130 mph
Path Length	8.4 Miles
Max Width	100 Yards
Injuries/Deaths	0

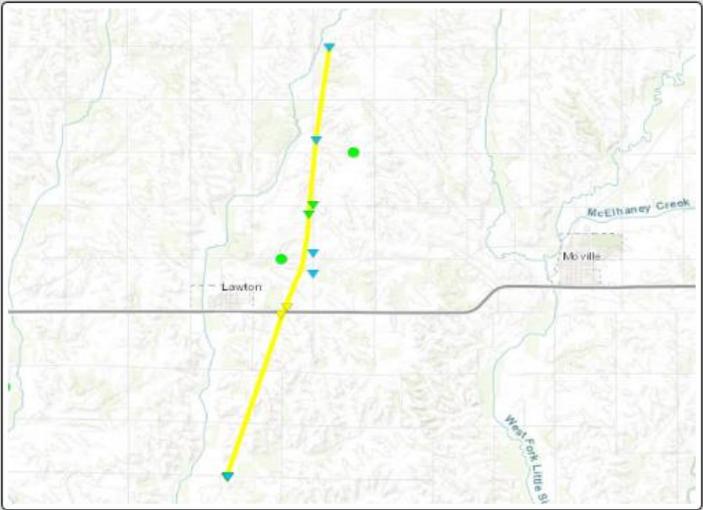
Summary:

The tornado touched down along 190th street 2 miles northeast of Bronson and ripped a portion of a roof off a single family home. The tornado continued northeast across open fields until it hit two metal utility transmission towers, resulting in the closure of U.S. Highway 20 due to electrical lines on the road east of Lawton.

The tornado continued northward near Fayette Avenue, impacting multiple farmsteads. A few barns/sheds were damaged along with many broken/snapped tree limbs. A machine shed at one farmstead was completely destroyed along with a concrete silo and lean-to shed. Multiple power poles were snapped along 140th street. Minor damage was also noted to shingles on a couple single family homes.

The tornado eventually lifted near the intersection of 110th street and Fayette Avenue.

Track Map



Downloadable KMZ File

Source: <https://www.weather.gov/fsd/20211215-Tornado-nwia> (June 9, 2025)

Priority Hazards

- Tornado / Windstorm

- Severe Winter Storm
- Grass and Wildland Fire

Priority hazards remain consistent with those specified in 2020. A greater emphasis is placed on concern of Windstorms as well as Thunderstorms with Hail and Lightning. Survey responders aligned their top three concerns with the priorities indicated by the City.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Lawton	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	Lawton	New. Prepare generator connection and install at Fire Station. <i>Fire Chief, City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
development		
flow control		
refuge		
technology		
natural barriers/ supports		

8. MOVILLE

a. Profile

The city of Merville is centrally located in the northern half of Woodbury County. The majority of the City is situated north of U.S. Highway 20, with a small portion located south of the highway. Several streams are located to the west of the city including McElhaney Creek, West Mud Creek, Mud Creek, and West Fork Little Sioux River. Only McElhaney Creek passes through city limits. More information can be found on the City of Merville website.

City Governance & Community Supports

Moville is governed by a Mayor and City Council who are elected by city residents. A Mayor Pro Tem is appointed by the mayor and may vote as a member of the Council. Five (5) additional members serve on Council. Offices in addition to Mayor and Council include City Clerk, Public Works, Police, Fire and Rescue, and Ambulance Services.

Demographics, Housing, & Economics

In 2023, Moville's population was 1,840⁵⁵, showing a slight increase from 1,687 in 2020. The city has 666 households, with a median household income of \$96,250, significantly higher than the median income of Woodbury County, which is \$51,350. The community includes a notable portion of vulnerable populations, with a significant number of residents aged 5 years and younger, as well as a considerable percentage of individuals aged 65 and older. Additionally, some residents are living below the poverty level, and a portion of the population is living with a disability.

<i>Community Characteristics</i>	
Population (2023)	1840
Population (2020)	1,687
Total Households	666
Median Household Income	\$96,250
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	177	9.6%	7.3%	5.7%
65 years and older	208	11.3%	14.3%	16.0%
Below the poverty level	143	3.2%	14.0%	11.3%
Living with a disability	204	11.2	12.4%	18.5%

Moville has a total of 624 housing units, with 612 occupied and 12 vacant. There are 25 mobile homes, comprising a small portion of the housing stock. The majority of homes in Moville were

⁵⁵ Source: <https://censusreporter.org/profiles/16000US1954930-moville-ia/>

built before 1999, with a significant number constructed in 1969 or earlier, and a sizable portion built between 1970 and 1999. A smaller number of homes were built in 2000 or later.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	624	-
Occupied	612	98%
Vacant	12	2%
Mobile Homes	25	4%
<i>Age of Residential Structure</i>		
Built 2000 or later	52	7.4%
Built 1970 – 1999	277	39.2%
Built 1969 or earlier	378	53.5%

Leading Employers

The largest employer in the City of Merville is the Woodbury Central Schools, which employs approximately 75 people. In addition to education, the manufacturing and retail trade industries employ the next greatest amount of people.

EGR Insurance, Inc.
MF Construction
Nutrien AG Solutions
Western Iowa Telephone Association
Woodbury Central Community School District

Critical Facilities

City Hall	21 Main St
Police	
Ambulance	24 W Main St
Fire & Rescue	
Lift Station	1 Hwy 140
Haskell Pool; Park	2 Hwy 140
Community Center/Library	815 Main St
Fire Station #2; Vehicle Storage	19 S 1st

Well House	111 N 3rd St
Siren	
Well House; Well Heads	211 N 4 th St
N Lift Station	112 N 2 nd St
Lagoon Bldg	2431 160 th St
Water Tower & Control Panel	111 Fair St
Pumps	
Midway Park	N 4 th St
Ball Fields	221 N 2 nd St
Main St Park	Main St
The Ridge Park	845 Park Ridge Pl
Memorial Park	
Veterans Park	
Post Office	
Woodbury Co RAC	
Woodbury Co Engineer's Office	

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

Woodbury County Fairgrounds	206 Fair St
Woodbury Central High School	408 S 4 th St
Woodbury Central Middle School	
Moville Elementary School	
Eastside Acres Campground	811 E Frontage Rd
Mobile Home Park	
County Conservation Board	State Highway 140
Churches	
• New Hope Church	516 Main St
• Moville United Methodist Church	450 S 1st St
• Trinity Lutheran Church	323 S 4th St
• Immaculate Conception Church	419 Jones St
Family Health Care of Siouxland	410 Main St
CNOS Medical Clinic	
Dollar General	
Lewis Drug	

Senior Center / American Legion Hall	11 S 2nd St
--------------------------------------	-------------

County and private entities are included here as areas of interest, essential services, and/or where places with increased vulnerability during a disaster. Additional County Facilities as may be located in Movable are itemized in the County Profile.

Valuation of City Assets

A partial valuation of assets at \$2,511,868 was provided as preliminary base for cost-benefit analysis. This value does not include all city property and facilities. An assessment of values will accompany project plans including public as well as private assets as may be affected by a given action.

b. Participation

A mitigation planning meeting was held at Movable City Hall on August 26/2024. SIMPCO facilitated the discussion and the following people were in attendance.

- Michaela Peterson, City Clerk
- Jerry Sailer, Fire Chief
- Mike Montino, Co EMA Coordinator
- Casey Stratten, EMT
- Pat Rogers, Agent
- Bret Hayworth, Council
- Dave Christensen, Bldg Inspector
- Joe Barnes, Chief, PD
- Pat Smith, PWD

c. Community Capabilities

The city participates in the NFIP program with the Mayor serving as Floodplain Administrator. The City has zero RL/SRL properties. Movable has the following local supports in place in addition to resources as uniformly available through county, region, and state programs.

<i>Plans/Guidance Documents</i>
Comprehensive Plan
Capital Improvement Plan (5-yr update in progress as of 8/26/24)
Land Use Plan

<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code • Nuisance Ordinance • Subdivision Ordinance 	<ul style="list-style-type: none"> • Tree Trimming Ordinance • Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
National Flood Insurance Program (NFIP) Participant	CID #190293C
ISO Fire Rating	FD Class 5/5 Rural
Planning/Zoning Board	
<i>Staff/Department</i>	
Building Code Official	Independently contracted
Building Inspector	Independently contracted
Public Works Official	Public Works Directors
NFIP Floodplain Administrator	City Clerk
Emergency Response Team	Fire and Rescue
<i>Local Funding Availabilities & Authorities</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
Levy taxes for a specific purpose	
Fees for water and sewer services	
Impact fees for new development	
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	Moville	2020: Add warning sirens to supplement existing. Assess need for additional at southeast edge of town and at Ridge Park; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) MEDIUM PRIORITY
		Update. Action not taken. Maintain project for 2025 Plan.
tools/equipment		
Equipment	Moville	2020: Drone for Fire Department -- assess and prepare before entering situation; determine best approach for grass fires, etc.; Assess areas of concern. <i>Fire Chief, City Council</i> (Department funds, Response support funds, PDM) MEDIUM PRIORITY

		Update not provided.
development		
flow control		
refuge		
technology		
Improve effectiveness	Moville	2020: Increase supply of handheld radios to improve inner and inter-department communications; <i>City Council, Collaboration with EMA</i> (City funds, potential PDM funds) LOW PRIORITY Implemented. The city police and fire departments are inter-connected allowing for immediate, in-time communications as needed. The city offices use All Contact enabling constant communication through departments.
natural barriers/ supports		

In addition to actions in response to the 2020 HMP, Menville has implemented other projects affecting community wellbeing. A generator is in place at the water treatment plant. There is a portable generator dedicated for use at the well house and lift station. A new water plant and tower are in the planning stages. A new floodplain ordinance was enacted in 2024. An ash tree replacement plan is in place in response to Ash Borer Beetle concerns.

d. Risk Assessment

Contributing Factors

Nutrien operations in town, while vital to local economy, does pose concern due to on-site propane product tanks. Traffic volume along US 20 heightens threat of not only transportation incidents, but hazardous materials incidents as well. The city is looking at formalizing refuge options through conversations with churches, the fairgrounds board, and schools. Current understanding is no pets may accompany residents to refuge locations, however lack of formal plan makes that difficult to maintain. Residents would benefit from full awareness enabling them to make alternate arrangements. The ball diamonds and a single residence on S Pearl are flood prone properties.

The NOAA Storm Event database shows four reports for Menville between 11/01/2019 and 12/31/2024⁵⁶.

⁵⁶ Source: <https://www.ncdc.noaa.gov/stormevents/>

<u>Location</u>	<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>Inj</u>	<u>PrD</u>	<u>CrD</u>
<u>MOVILLE</u>	8/10/2020	7:40	Thunderstorm Wind	50 kts. MG	0	0	0.00K	4.00K
<u>MOVILLE</u>	12/15/2021	16:35	Tornado	EF1	0	0	200.00K	0.00K
<u>MOVILLE</u>	5/12/2022	18:15	Thunderstorm Wind	50 kts. MG	0	0	0.00K	29.00K
<u>MOVILLE</u>	9/18/2023	23:50	Hail	1.00 in.	0	0	0.00K	0.00K

Priority Hazards

- Flood (riverine)
- Tornado / Windstorm
- Hazardous Materials Incident
Transportation Incident

Difficult to narrow concerns to a top three priority, haz mat and traffic accidents stem from a common source: traffic volume on US 20. Thunderstorms with Hail & Lightning are prevailing issues as well with incidents often resulting in at least some damage.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Moville	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 (no funds needed) HIGH PRIORITY</i>
Warning Sirens	Moville	Carry over. Add warning sirens to supplement existing. City is seeking opportunity to fully assess need for additional siren(s). Portions of expanded residential areas exceed anticipated coverage area of existing siren. Cell phone-based alerts may meet needs of most, but not all. <i>Public Works, County EMA (PDM, Local general budget, community foundation grants as available) MEDIUM PRIORITY</i>
tools/equipment		
Generator & Related Projects	Moville	New. City is looking at generator purchases for Fairgrounds (County collaboration), Community Center and Fire Hall. Community Center serves as shelter when open. <i>City, Public Works, County EMA (local funds general budget, pre-disaster/mitigation funds as available) HIGH PRIORITY</i>
development		
flow control		
Flood Protection	Moville	New. Improvements to the existing berm at the North Lift Staton are needed as it has been compromised three times. <i>Public Works, Engineering supports as available (local</i>

refuge

technology

natural barriers/ supports

9. Oto

a. Profile

The city of Oto is centrally located in the southeastern quarter of Woodbury County. State Highway 31 and County Highway D54 intersect in Oto. The city is situated west of the Little Sioux River. To the west is Oak Ridge Conservation Area, and to the north is Curtin Timber Public Wildlife Area.

City Governance & Community Supports

Oto is governed by a Mayor and City Council. The Council is composed of three (3) voting members. In addition to these offices, Oto is served by the following departments: Clerk/Treasurer and Maintenance. The City contracts with Woodbury County for law enforcement services. Oto is served by independently operated, volunteer emergency response teams -- Oto Ambulance and Oto Fire Department.

Oto is a member of the NFIP program with portions of the city located within a floodplain (Zone A). Both the Municipal Code of Ordinances and the Comprehensive Plan have been recently updated.

Demographics, Housing, & Economics

CensusReporter.org shows Oto with a population of 66 in 2023⁵⁷, showing a slight decrease from 72 residents in 2020. The town is home to 33 households, though the median household income is not available. A significant portion of Oto's population is 65 years or older, and many residents face economic challenges, with a notable number living below the poverty line.

⁵⁷ Source: <https://censusreporter.org/profiles/16000US1960240-oto-ia/>

Additionally, a considerable number of residents are living with a disability, highlighting some of the community's unique needs.

<i>Community Characteristics</i>	
Population (2023)	66
Population (2020)	72
Total Households	33
Median Household Income	n/a
Median Household Income (all of Woodbury County)	\$51,350

Available estimates are disparate and not reflective of what is likely the actual per capita income level, especially when paralleled with an estimate more reflective of local perception of the poverty rate. The CensusReporter.org site estimates per capita at more than double the state and Sioux City metro area numbers, with poverty rate also more than double the metro and state rates. Local summation is more consistent with estimated poverty rate as included in the following table.

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	2	3%	7.3%	6.3%
65 years and older	18	27.3%	14.3%	16.0%
Below the poverty level	17	25.8%	14.0%	12.0%
Living with a disability	21	31.8%	12.4%	11.6%

Oto's housing stock is largely made up of homes that are 50 or more years old, with minimal new construction in recent years. Only one house has been built in the 21st century. The city also has a relatively high vacancy rate, with 15 of the 50 total housing units currently unoccupied.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	49	-
Occupied	33	67%
Vacant	16	33%
Mobile Homes	2	4%

<i>Age of Residential Structure</i>		
Built 2000 or later	1	2.0%
Built 1970 – 1999	12	24.0%
Build 1969 or earlier	37	74.0%

More information regarding demographics can be found on the U.S. Census webpage for Oto.

Leading Employers

While not hosting a large number of employees, the following businesses operate and have established a necessary presence in Oto.

- Lyle’s Auto Salvage
- Oto Pub & Grub

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

City Hall	215 1st Ave
Ambulance Service	27 Washington
Sewage Lift Station	242 Water St
Fire Department	
Pump/Well #3	300 3rd Ave
Town Mtnc Bldg	Washington St
Water Tower	Royal St
Pump House #2	110 2nd Ave

In addition to city facilities, private establishments including but not limited to the leading employers as listed are critical to the function of the city as community supports.

Valuation of City Assets

Total Building	\$	140,065	RC
Total Personal Property	\$	52,634	RC

Total Property in the Open \$ 310,221 RC
 ' nşak Dp 835,253

b. Participation

A planning meeting, facilitated by SIMPCO, was held at Oto City Hall on December 17, 2024. City Clerk Nikki Kelsheimer was present.

c. Community Capabilities

In addition to state, region, and county programs, the City of Oto has the following identified as locally available resources.

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	
<i>Policies/Ordinance</i>	
Nuisance Ordinance	Trees Ordinance
Building and Land Use Regulations	
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	Yes, 190294C
ISO Fire Rating (updated class not provided)	Oto Class 9; Oto FD Class 9/10
<i>Staff/Department</i>	
Public Works Official	Superintendent for the City
Emergency Response Teams (Independent of City)	Ambulance
	Fire Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	Henry V McKenna American Legion
Oto Days Committee	
<i>Local Funding Availabilities & Authorities</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
Levy taxes for a specific purpose	
Fees for water, sewer, gas, or garbage collection services	
Assess impact fees for new development	

Incur debt through	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities
Withhold spending in hazard prone areas	

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

The ambulance building is designated as a cooling station during extreme heat events. The city follows state codes for building standards and floodplain regulations. Active promotion of the Alert Iowa system is ongoing through Facebook and neighbor to neighbor.

Review of Actions Taken (Since 2019)

communication /education		
Warning Sirens	Oto	2020: Warning siren needed immediately. Malfunction due to lightning strike. <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY Resolved. Oto’s warning siren is now functioning.
tools/equipment		
Equipment	Oto	2020: Fire Dept in need of equipment and new facility; <i>Fire Chief</i> (City support, Department funds, Fire Association funds, FEMA AFG, CDBG facilities funds, State Revolving Fund loan) LOW PRIORITY Update. Facility and equipment improvements are still needed for the Oto Volunteer Fire Department. No action has been taken due to lack of funds. This project will carry into the 2025 HMP. Priority reflects feasibility, not need.
development		
flow control		
refuge		
technology		
natural barriers/ supports		

d. Risk Assessment

A review of events recorded in the NOAA Storm Event database did not show any reports for Oto between 11/01/2019 and 12/31/2024. It can be expected that Oto did experience the effects of all 104 events reported for the Woodbury “Zone”.

Contributing Factors

Weather extremes of all kinds are troublesome for Oto and most small communities. The city is making strides in coordinating planning effort to ensure mitigation efforts are incorporated into all planning projects where applicable.

Priority Hazards

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

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Oto	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	Oto	New. Oto is seeking the opportunity to purchase a generator to facilitate operation of critical functions during power outages. <i>Public Works, County EMA</i> (local funds general budget , community foundation grants, pre-disaster/mitigation funds as available. MEDIUM PRIORITY
Equipment	Oto	Carry over. Fire Dept in need of equipment and new facility; <i>Fire Chief</i> (City support general budget , Department funds, Fire Association funds, FEMA AFG, CDBG facilities funds, State Revolving Fund loan) LOW PRIORITY
development		
flow control		
refuge		
technology		
natural barriers/ supports		

10. PIERSON

a. Profile

The city of Pierson is situated in the northeast quarter of the Woodbury County, near the northern border. County Highways D12 and L25 intersect at the northeastern corner of the city. Several small streams meander through city limits. More local details can be found on the City of Pierson website at <https://www.piersonia.com/>.

City Governance & Community Supports

Pierson is governed by a five (5) person elected City Council and the Mayor. Offices in addition to the Mayor and Council include City Clerk and Public Works. Fire and rescue services are provided by the Pierson Fire Department, which is staffed by volunteers. This department provides fire response services to surrounding communities. Pierson contracts with Woodbury County for police protection services.

Demographics, Housing, & Economics

Pierson, Iowa, had a population of 331 in 2023, showing a slight decline from 337 in 2020. The town includes 103 households and has a median household income that exceeds the average for Woodbury County. Pierson has a relatively large number of young children compared to the surrounding area, while the number of older adults is somewhat lower. Fewer residents live below the poverty line than in both the county and the state, indicating a relatively stable economic situation. However, the town has a higher number of individuals living with disabilities, which may point to a greater need for supportive services and accessibility resources in the community.

<i>Community Characteristics</i>	
Population (2023)	331
Population (2020)	337
Total Households	103
Median Household Income	\$56,563
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	29	10%	7.3%	6.3%
65 years and older	34	11.7%	14.3%	16.0%
Below the poverty level	25	7.6%	14.0%	12.0%
Living with a disability	41	14.1%	12.4%	11.6%

Pierson, Iowa has a total of 120 housing units, with 103 currently occupied and 17 standing vacant. The vast majority of these homes are older, with nearly all residential structures built before 1970, and none constructed after the year 2000. Only a small portion of the housing stock was built between 1970 and 1999. Mobile homes make up a very small share of the housing, reflecting a predominantly traditional housing landscape. This aging housing inventory may present challenges related to maintenance, energy efficiency, and modernization, but also suggests a community with deep roots and long-standing character.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	120	-
Occupied	103	86%
Vacant	17	14%
Mobile Homes	4	3%
<i>Age of Residential Structure</i>		
Built 2000 or later	0	0.0%
Built 1970 – 1999	21	11.4%
Build 1969 or earlier	163	88.6%

More demographic and community data can be found on the US Census Bureau webpage for Pierson.

Leading Employers

- NEW Co-op
- Culligan Water
- United Bank of Iowa
- Mahoney Auto

Critical Facilities

City Hall/Library	201 Main St
Community Center	514 2nd St
Fire Station	
Water Tower; Pump House	300 Main St
City Park	Main St
Tennis Courts/Sand Volleyball	208 Maple St
Maintenance Bldg	601 Front St
Pump house & Related	290 Maple
Utility Bldg	
Pump House; Control Panel	Lenox Ave
Sewage Treatment Plant	Minnesota Ave
Ballpark	210 Maple St
Cemetery	

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

US Post Office
Pierson Elementary & Middle School (4-8)
Pierson United Methodist Church
Gas Lantern Restaurant
Thonny's Bar and Grill

Valuation of City Assets

A valuation of city assets was not provided for this plan. However, a base value of \$2,251,801 from the 2020 HMP can be estimated to have doubled based on improvements and across the board building/property increases in recent years. A full assessment of values of public and private properties as may be impacted by mitigation actions/strategies will be formed for cost benefit analysis to be incorporated into project plans and funding requests.

b. Participation

A formal mitigation planning meeting was not held, however, communications regarding mitigation planning were conducted between SIMPCO, and the City of Pierson with Jeanette Beekman, City Clerk and Mayor Dallas Groen providing input. Information was provided via email and completion of the jurisdiction update survey.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> Floodplain Ordinance Nuisance Ordinance 	<ul style="list-style-type: none"> Storm Water Ordinance Subdivision Ordinance
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190295C
ISO Fire Rating (not updated)	Pierson Class 5; Pierson FD, Class 8/9
Tree Trimming Program	In effect @ parkings
<i>Staff/Department</i>	
Public Works Official	
Emergency Management Coordinator	City Clerk @ local level
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	American Legion Harrison/Pedersen Post #291
	American Legion Auxiliary
Community Organizations	Pierson Town and Country
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through 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
Ability to withhold spending in hazard prone areas	

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

Review of Actions Taken (Since 2019)

communication /education		
tools/equipment		
Generator & Related Projects	Pierson	2020: Generator for Community Building for continuation of use as refuge location in the event of power outage; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Update. Action not taken as other projects took precedence. Carry over to 2025 HMP.
Equipment	Pierson	2020: ATV for use during road blockages; <i>City Council</i> (City funds, PDM) LOW PRIORITY
		Update. Action not taken. Carry into 2025 HMP with same priority level.
development		
flow control		
refuge		
technology		
natural barriers/ supports		

Pierson has taken steps implementing drainage improvements, however more work is needed. The city has completed their 4th Street Drainage Improvements project, and is moving ahead in planning drainage improvements on Front Street. Front Street strategies are included in the project table. The city does have a CIP that is guided by city planning documents and short/long-term goals. An IDNR Tree Assessment has been completed with removals completed as needed and replacement taking place on an intermittent schedule pending funding. Generators and SCADA (Supervisory Control and Data Acquisition) have been added to the water plant to ensure availability of water in case of an electrical outage. The city is also in the planning and approval stages of a new wastewater treatment system. Mitigative protections and a generator connection are anticipated components.

d. Risk Assessment

Contributing Factors

An assessment of NOAA Storm Event database provides record of four reports specific to Pierson between 11/01/2019 and 12/31/2024. Due to its location, it can be assumed that the community experienced effects of “Zone” classified events as declared for Woodbury, Plymouth, Cherokee, and Ida Counties.

<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>
PIERSON	6/22/2021	17:46	Hail	1.75 in.	0	0	0.00K	8.00K
PIERSON	8/20/2021	17:16	Thunderstorm Wind	56 kts. EG	0	0	2.00K	0.00K
PIERSON	6/23/2024	4:00	Flood		0	0	0.00K	0.00K
PIERSON	7/29/2024	23:06	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K

Pierson is surrounded on three sides with floodplain. Current flood concerns are more relevant to runoff and flash flood events, especially when preceded by periods of drought and extremely dry conditions. The same conditions intensify riverine flooding when concurrent.

Priority Hazards

- Tornado/Windstorm
- Severe Winter Storm
- Flood

Pierson maintained declared priority hazards as included in the 2020 HMP, though flood is more relevant to effects on surrounding areas than within city limits.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Pierson	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	Pierson	Carry over. Dedicated generator for Community Building for continuation of use as refuge location in the event of power outage; <i>City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Equipment	Pierson	Carry over. ATV for use during road blockages; <i>City Council</i> (City funds general budget , PDM) LOW PRIORITY
development		
Improve existing facilities & infrastructure	Pierson	New. Sewer lining project. City is lining sewers to improve existing infrastructure, and extend useful life. Approx cost is \$200,000 – planned for 2026. <i>Public Works, DNR.</i> (Local funds – general budget) HIGH PRIORITY
flow control		
Drainage Projects	Pierson	New. The city has made some drainage improvements in recent years (4 th St), but more work is needed along Front Street. <i>Public Works</i> (local general budget funds, other infrastructure funds as may be available) HIGH PRIORITY
refuge		
technology		
natural barriers/ supports		

11. SALIX

a. Profile

The city of Salix is centrally located in the southwestern quarter of Woodbury County. Interstate 29 bisects the city, although most of the commercial and residential structures are located east of the interstate.

Along the western border is Browns Lake, and beyond that is the Missouri River. Brown’s Lake, Bigelow Park, and Woodbury County Conservation are also located west of city boundaries. Further from city limits and to the east is the Luton Wildlife Management Area, and to the south is the Lakeport Area. More information can be found on the City of Salix’s website at <https://salixiowa.com/>.

City Governance & Community Supports

Salix is governed by a Mayor and City Council who are elected by residents. The Mayor appoints a Mayor Pro Tem who serves as a voting member of Council. In addition, Council is composed

of five (5) voting members. Staffed positions include City Clerk and Maintenance. Salix Fire & Rescue is located in the center of town, staffed by an average of 35 volunteers. This department also provides ambulance services. The city contracts with the County for law enforcement.

Demographics, Housing, & Economics

Salix’s population in 2023⁵⁸ according to CensusReporter.org is estimated at 413, showing what is locally considered a more accurate depiction of city population. With 184 households, the city enjoys a median household income of \$62,143 – well above the Woodbury County average – indicating a relatively strong economic base. The community has a significant number of older adults, making up nearly a quarter of the population, while the number of young children is comparatively low. Despite its aging population, Salix reports a very low poverty rate, suggesting a generally stable and well-supported community. A notable portion of residents live with a disability, which may signal a need for accessible infrastructure, healthcare services, and community support tailored to these individuals.

<i>Community Characteristics</i>	
Population (2023)	413
Population (2020)	295
Total Households	184
Median Household Income	\$62,143
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	21	5.1%	7.3%	6.3%
65 years and older	96	23.2%	14.3%	16.0%
Below the poverty level	9	3.4%	14.0%	12.0%
Living with a disability	60	14.5%	12.4%	11.6%

Salix, Iowa has a total of 193 housing units, with 183 currently occupied and only 10 vacant, reflecting a high occupancy rate. The housing stock in Salix is fairly well-distributed in age, with over half of the homes built before 1970 and more than a third constructed between 1970 and

⁵⁸ Source: <https://censusreporter.org/profiles/16000US1970320-salix-ia/>

1999. A smaller share of homes – about 9% – have been built since 2000, indicating some recent development activity. Mobile homes make up a small portion of the housing, suggesting a predominance of traditional, single-family structures. Overall, Salix’s housing profile shows a stable and well-maintained community with a mix of older homes and gradual new growth.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	193	-
Occupied	183	95%
Vacant	10	5%
Mobile Homes	8	4%
<i>Age of Residential Structure</i>		
Built 2000 or later	15	8.7%
Built 1970 – 1999	63	36.4%
Build 1969 or earlier	95	54.9%

More demographic and community data can be found on the US Census webpage for Salix.

Leading Employers

- Walkers
- Steinhoff Construction

Critical Facilities

City Hall	317 Tipton St,
Salix City Park	
Filtration House	203 Tipton St
Pump House	110 Tipton St
Pump House	120 Tipton St
Water Tower	130 Tipton St
Lift Station, West	Tama St at Willow St
Lift Station, East	Hwy 75 at Walnut
Aspen Lift Station	Lakeport & Aspen Sts
Park Buildings	303 Walnut

City Maintenance Shed	311 Tipton
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The city has other holdings including but not limited to the old Pioneer Bank Building at 405 Poplar. As the property is expected to be sold, it is not specified on the above critical facilities list.

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

Arnold’s Trailer Sales & Service	Walker’s Restaurant and Bar
Head and Nails Beauty Shop	Salix Community United Methodist Church
Roger’s I-29 Auto Repair	St. Joseph Catholic Church
Steinhoff Landscape & Construction	
Brown's Lake (State Park)	722 Bigelow Park Rd
Snyder Bend Park (State Park)	2924 Snyder Bend Rd

Valuation of City Assets

Total Blanket TIV	\$	2,889,134
Building	\$	2,855,091
Personal Property	\$	34,043
Misc Property Sched	\$	89,760
Misc Property Unsched	\$	<u>36,905</u>
APD TIV	\$	2,500
Total TIV	\$	<u>3,015,799</u>

b. Participation

SIMPCO facilitated a virtual mitigation planning meeting on December 19, 2025, via Teams, with City Clerk Kathy Brouillette in attendance. **The meeting included status updates for 2020 HMP projects as included for the Salix, other major projects and events since the last plan, review of natural disasters and other hazards as included in the State 2023 HMP, and projects and actions planned or needed for the city.** One survey was completed with Salix indicated as jurisdiction of residence with response **corresponding directly with City-stated concerns and priority hazards.**

Follow up conversations with the new City Clerk, Ashley Mareau and Mayor Nelson were conducted via email and phone in January and February, 2026. As a result, two projects and several strategies were added to Salix’s goals table.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
<ul style="list-style-type: none"> • Capital Improvement Plan • Comprehensive Plan 	<ul style="list-style-type: none"> • Flood Mitigation Assistance (FMA) Plan • Land Use Plan
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Debris Management Plan • Drainage Ordinance • Floodplain Ordinance • Nuisance Ordinance 	<ul style="list-style-type: none"> • Storm Water Ordinance • Subdivision Ordinance • Tree Trimming Ordinance • Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
National Flood Insurance Program (NFIP) Participant	CID #190296C
ISO Fire Rating (<i>Not updated</i>)	4 (in town)/4Y (Brown’s Lake area)
Planning/Zoning Boards	
Tree Trimming Program	
<i>Staff/Department</i>	
Building Code Official	
Building Inspector	
Public Works Official	Public Works Director
NFIP Floodplain Administrator	
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	
Community Organizations	• Park Committee
<i>Local Funding Availability</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
TIF funding for designated use	
Authority to levy taxes for a specific purpose	
Fees for water, sewer, gas, or electric services	

Impact fees for new development	
Ability to incur debt through	<ul style="list-style-type: none"> • general obligation bonds • special tax bonds • private activities
Ability to withhold spending in hazard prone areas	Yes

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

Review of Actions Taken (Since 2019)

communication /education		
Warning Sirens	Salix	<p>2020: Warning sirens – Replace existing in town; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY</p> <p>As amended 01/12/2022: Complete. A new weather siren was installed in December 2020. The weather siren is connected to the County Communications Center as a primary means of notifying residents and visitors to Salix of imminent danger due to extreme weather conditions such as tornado and/or windstorms. The siren is multi-tonal allowing variation in sounds to differentiate the causes for warning.</p>
tools/equipment		
development		
flow control		
Drainage Projects	Salix (As amended 01/12/2022)	<p>2022. Recent changes in permissible stormwater drainage methods have increased flood risk in Salix during periods of heavy rainfall and/or rapid snow/ice melt.</p> <p>Phase I: The City plans to pursue technical assistance including but not limited to a study or preliminary engineering to assess probable solutions.</p> <p>Phase II: Implement stormwater drainage system to resolve issues created by cancelation of agreement to direct stormwater into nearby Drainage District. Public Works, County Board of Supervisors, IDNR, USDA, other regulatory bodies as applicable (FEMA BRIC/FMA, local funds) HIGH PRIORITY</p>
Drainage Projects	Salix	<p>Update – Phase I: Complete. City worked with Farmer’s Drainage District and Woodbury County, assisted with contracted engineering firm, to conduct study and form a new drainage district – Approved 12/10/2024. Phase II will now be implemented under status as a drainage district, enabling a more expeditious and streamlined process.</p>
refuge		
technology		
natural barriers/ supports		

The city added a lift station to accommodate the new Aspen development which is set to include 4-5 townhomes when complete. The interior of the water tower was painted to improve longevity. The project was funded through a loan which will be paid out using TIF. Dead/diseased trees are tracked and removed as necessary. Replacements are planned for the city park. The floodplain ordinance was updated in 2024 under direction of IDNR. Several projects were implemented affecting the city's ability to respond to emergency incidents including but not limited to the following.

- The city has added two AED units – one at the park and one at city hall. Project is funded through a Railroad grant (an offset for the effects of a derailment incident) and is set to align with Woodbury County 911/Communication Center for a coordinating unlocking process.
- Keyless entry locking system was installed at fire station. Remote capabilities enable resident access to tornado room when building otherwise closed.
- Several major improvements to the city's water infrastructure led to an improvement in the city's fire ISO rating. The City's ISO Fire Rating improved from 7 to 4.
- A new truck, equipped for plowing, was added to city inventory.

d. Risk Assessment

Contributing Factors

An assessment of the NOAA Storm Event database provided four reports specific to Salix.

<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>
SALIX	12/15/2021	16:15	Tornado	EFU	0	0	0.00K	0.00K
SALIX	12/15/2021	16:20	Tornado	EF1	0	0	250.00K	0.00K
SALIX	6/12/2024	17:25	Hail	1.50 in.	0	0	0.00K	0.00K
SALIX	6/12/2024	17:25	Hail	1.25 in.	0	0	0.00K	0.00K

Salix has corporate boundaries that are disjointed at the I-29 on/off ramp area. The western area of the city does have some floodplain including ag lands and into Brown's Lake. Proximity to businesses involving volatile products/ingredients/components (MidAmerican, Port Neal, and CF Industries, for example) and historical events (1996 Terra Industries explosion) serve as impetus for concern over hazardous materials incidents. Not only the production and use of such products, but the transport through the city's cross section at I-29 and Old Hwy 75 are factors in city emergency preparedness considerations.

Priority Hazards

- Flood
- Severe Winter Storm
- Tornado/Other storms

Infrequency of hazardous materials incidents, as well as potentially exorbitant costs keep this from being a higher priority in mitigative action planning.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Salix	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 (no funds needed)</i> HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Salix	New. Purchase and Install Automatic back up Generator at West Lift Station. <i>Public Works (Locally available grants from Farm Credit and MRHD as may be awarded, City budget - general fund, fundraising)</i> HIGH PRIORITY
development		
Improve existing facilities & infrastructure	Salix	New. The City is planning to replace its fire hydrants to improve function and access to minimize loss/damages in the event of fire, including but not limited to grassland and wildfire. Fire Chief, Public Works. Priority reflects lack of dedicated funding, not significance of project. (Funding has not been determined aside from match coming from the city's general fund; Response assistance and community betterment grants as may be available) MEDIUM PRIORITY
flow control		

Drainage Projects	Salix	Carry over. Phase II - The project identified through the study included the construction of a flow channel connecting the Salix Drainage District to the Farmers Drainage District, including a retention pond and other flow diversions. Project is awaiting finalization of cost-benefit analysis as interim conditions put Salix at heightened risk for street flood potential, storm drain backup, and home infiltration. <i>Salix Drainage District</i> (Drainage district funds, others to be determined pending necessitated corrections) HIGH PRIORITY
refuge		
technology		
natural barriers/ supports		

The city has adopted by reference the IPMC, IBC, IFGC, and IMC standards as adopted at state level, with exceptions. A full code update is budgeted for 2026.

12. SERGEANT BLUFF

a. Profile

The city of Sergeant Bluff is located in western Woodbury County. The city is bordered by Interstate 29 to the west, and is bisected by County Highway D38. The Sioux Gateway Airport is located to the west of the City and separates Sergeant Bluff from the Missouri River. More information can be found on the City of Sergeant Bluff website.

City Governance & Community Supports

Sergeant Bluff is governed by a Mayor and City Council who are elected by city residents. The Mayor serves as a non-voting member of the City Council. Voting members include the five (5) members of the Council including the Mayor Pro Tem. Offices, Departments, and Boards include the following.

<i>Staff and Departments</i>	
Building Inspector	Human Resources
City Administrator	Library Director
Assistant City Administrator	Planning & Zoning
City Clerk	Police Department
Finance Director	Public Works (& Maintenance Crew)
Fire Department	Receptionist

<i>Boards, Commissions, & Programs</i>	
Board of Adjustment	Planning & Zoning Commission
Mayor Committee Board	Senior Committee Board
Parks & Recreation Board	Urban Revitalization

The Sergeant Bluff Police Department is staffed by a Police Chief, Assistant Police Chief, Office Manager, and eight (8) Police Officers. The city also has a volunteer Fire Department. The Fire Department provides ambulance services. A 28E agreement exists between Sergeant Bluff and Woodbury Township, ensuring that Sergeant Bluff will provide fire protection and other emergency services for all property within the Township. The city also participates in the Enhanced 911 system through the Woodbury County Communication Center in Sioux City. The city conducts an annual review and update of its Municipal Code of Ordinances.

Demographics, Housing, & Economics

CensusReporter.gov estimates Sergeant Bluff, Iowa, had a population of 5,274⁵⁹ in 2023, up from 5,009 in 2020, reflecting steady growth over the past decade. The city includes 1,734 households and boasts a strong median household income of \$122,610—more than double the average for Woodbury County—indicating a high level of economic prosperity. The population includes a balanced number of young children and a lower-than-average share of older adults compared to both the county and state, suggesting a relatively youthful and family-oriented community. While past estimates indicated a higher poverty rate, more recent data shows only 7.7% of residents living below the poverty level, well below county and state averages. Additionally, the percentage of residents living with a disability is in line with the county and significantly lower than the state average. Overall, Sergeant Bluff presents as a growing, economically strong community with a solid quality of life and relatively low rates of poverty and vulnerability.

<i>Community Characteristics</i>	
Population (2023)	5,274
Population (2020)	5,009
Total Households	1,734
Median Household Income	\$122,610

⁵⁹ Source: <https://censusreporter.org/profiles/16000US1971625-sergeant-bluff-ia/>

Median Household Income – Woodbury County	\$51,350
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<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	371	7.3%	7.3%	6.3%
65 years and older	588	11.6%	14.3%	16.0%
Below the poverty level	369	7.7%	14.0%	12.0%
Living with a disability	615	12.2%	12.4%	11.6%

Sergeant Bluff, Iowa, has a total of 1,837 housing units, with 1,727 of them currently occupied, indicating a strong demand for housing in the area. The city also has a relatively low vacancy rate, with just 110 units vacant. Mobile homes make up a small portion of the housing stock, while the majority of homes were built between 1970 and 1999. A significant portion of the housing was constructed after 2000, reflecting ongoing development and modernization in the community. Additionally, many homes were built prior to 1970, contributing to a mix of older and newer homes that offer diverse housing options for residents.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	1,837	-
Occupied	1,727	94%
Vacant	110	6%
Mobile Homes	110	6%
<i>Age of Residential Structure</i>		
Built 2000 or later	462	28.5%
Built 1970 – 1999	705	43.5%
Built 1969 or earlier	453	28.0%

More demographic and community data can be found on the U.S. Census webpage for Sergeant Bluff.

Leading Employers

Embassy Rehabilitation and Care Center
Fareway food Stores
Pioneer Valley Living and Rehab

Sergeant Bluff-Luton Community Schools
Sioux City Brick and Tile
185 th ARW (within planning boundaries)
CF Industries (within planning boundaries)
Gelita USA, Inc (within planning boundaries)

Critical Facilities

An itemized listing of city properties and facilities was not provided for this update. Included for discussion are the many improvements and additions completed within the past five years. The following list is not exhaustive, however, it does present a summary of newer investments, improvements, and amenities.

- Dog Park
- Library
- City Hall (new facility)
- School Sports Complex – East Campus (new)
- Police Department (Relocated to former City Hall building)
- Lift station (new)
- Splash Pad

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

Sergeant Bluff-Luton Elementary School	Floyd Place
Sergeant Bluff-Luton Primary School	Elevate Community Church
Sergeant Bluff-Luton Middle School	
Sergeant Bluff-Luton High School	Pioneer Valley Living/Rehab
American Legion	River Bend Apartments & Townhomes
Bluff View Home	Shepherd of Peace Lutheran Church
Community United Methodist Church	Eye Doctor
Embassy Rehab & Care Center	Dentist

Valuation of City Assets

A current valuation of assets was not provided for this update. Using the 2019 total of \$26,041,575, current estimated valuation with all investments and improvements considered, can easily increase that number by 50%. The city will provide appropriate valuations for cost-benefit analyses for not only city assets, but also for private properties as may be affected by mitigative actions.

b. Participation

Facilitated by SIMPCO, a mitigation planning meeting was held December 11, 2024 at Sgt Bluff City Hall. In attendance were:

- Aaron Lincoln, City Administrator
- John Robinson, Crew Chief
- Anthony Gaul, Fire Chief

Of the 78 Woodbury County survey respondents, 7 indicated residence in Sgt Bluff.

c. Community Capabilities

The city participates in the NFIP program with the City Administrator serving as Floodplain Administrator. The City has zero RL/SRL properties. Sergeant Bluff has in place several supports to guide planning focused on resiliency. In addition to those listed below, county, region, and state programs are also available.

<i>Plans/Guidance Documents</i>	
Comprehensive Plan (2024)	
Capital Improvement Plan	
Land Use Plan	
<i>Policies/Ordinance</i>	
• Building Code (IBC 2021)	• Nuisance Ordinance
• Debris Management Plan	• Storm Water Ordinance
• Drainage Ordinance	• Subdivision Ordinance

<ul style="list-style-type: none"> Floodplain Ordinance Historic Preservation Ordinance Landscape Ordinance 	<ul style="list-style-type: none"> Tree Trimming Ordinance Zoning Ordinance
<i>Programs</i>	
Zoning/Land Use Restrictions	
Codes Building Site/Design	
National Flood Insurance Program (NFIP) Participant	Yes, CID #190297C
ISO Fire Rating	Sergeant Bluff Class 2; Sergeant Bluff FD, Class 2
Property Acquisition	
Planning/Zoning Boards	
Tree Trimming Program	
Mutual Aid Agreements	County & Surrounding communities
	North Sioux City SD
	South Sioux City NE
<i>Staff/Department</i>	
Building Code Official	Engineer
Building Inspector	Historic Preservation
Development Planner	Public Works Official
Emergency Management Coordinator	City Clerk @ Local Level
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	<i>Comments</i>
Veterans Groups	George Nelson American Legion
Community Organizations	
<ul style="list-style-type: none"> Community Action Team Sgt Bluff Community Foundation 	<ul style="list-style-type: none"> Sgt Bluff-Luton Community School Foundation Sgt Bluff-Luton PTO
<i>Local Funding Availabilities & Authorities</i>	
Ability to apply for Community Development Block Grants	
Ability to fund projects through Capital Improvements funding	
Authority to levy taxes for a specific purpose	
Fees for water and sewer services	
Impact fees for new development	
TIF (for specified projects)	
Ability to incur debt through	<ul style="list-style-type: none"> general obligation bonds special tax bonds private activities

Ability to withhold spending in hazard prone areas

Review of Actions Taken (Since 2019)

Sergeant Bluff has an extensive list of community investments completed since 2019 that include resiliency building and mitigative action. The following table provides updates to projects as included in the 2020 HMP.

communication/education		
tools/equipment		
Generator & Related Projects	Sgt Bluff	2020: Generator for PD; <i>Police Chief, City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
		Project closed. One large portable generator is available as needed. Police Department is prepared for such connection if needed. Fire Station has been designated as command center in the event of an emergency and is equipped to serve that role.
Equipment	Sgt Bluff	2020: Pumps for clean water transfer; <i>City Administrator, Streets Department</i> (City funds, PDM) HIGH PRIORITY
		Complete. Pumps for use in diverting accumulated water during flooding and heavy rain events have been added to city equipment inventory. Cost of project completion not provided.
Equipment	Sgt Bluff	2020: Replace rescue boat. <i>Fire Department/EMS</i> (Department funds, City supports, Response support funds, fundraisers, PDM) LOW PRIORITY
		Update. Fire Department has replaced pump tanker. Some additional equipment on budgeted (see new projects). Rescue boat replacement removed from priority list.
Equipment	Sgt Bluff	In progress – carry over. Handheld radios are in process of being replaced. Spring 2025 10 replaced with 4 still pending. <i>City, Fire Department.</i> (Local funds for those already replaced, Local funds and response funds as available for remaining) HIGH PRIORITY
Equipment	Sgt Bluff	2020: ATV for police Department to minimize access issues. <i>Police Dept</i> (Department funds, City supports, fundraisers, PDM) LOW PRIORITY
		Update: UTV replacement has been initiated in budget conversations with a plan to replace at least one UTV within the next five years.
development		
Relocate critical facilities	Sgt Bluff	2020: Interest in relocating 2nd Fire Station for improved response to more areas; <i>City Admin, Fire Chief, Zone Administrator</i> (City Funds, Fire Dept Funds, Fire Assoc funds, fundraisers, Response Support funds) LOW PRIORITY
		Update. Project not completed. Carry over to 2025 HMP.
flow control		
refuge		
technology		
natural barriers/ supports		

Infrastructure investments outside of those indicated in 2020 include mitigative measures. Some significant projects include:

- \$1M investment in moving electric utilities underground. Process is reducing redundancy in service lines as well as outages. Lines are looped with water mains streamlining access points for maintenance.
 - Side effect: update water modeling / systems to assess southend for fire response
- Large capacity generator for Interstate Lift Station (2023 @ \$55,000)
- Cyber-threat preventions with a migration to independent VPN-based systems with IT firm
- Active shooter/intruder collaboration with schools including designating evacuation / refuge meet-up locations as a coordinated effort with strategic community partners
- Standardized hydrants in place with all fire protections monitored/tracked on scheduled maintenance

d. Risk Assessment

Contributing Factors

First consideration for risk awareness is summarizing the impact of extreme weather events and other hazards. NOAA Storm Event database includes 8 reports specific to Sergeant Bluff between 11/1/20219 and 12/31/2024. It is important to note that the city’s response teams are among those first on the scene for emergencies in nearby communities and rural areas. Therefore, incidents recorded for the much of Woodbury and Monona Counties also affect Sgt Bluff’s resources.

<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>
SERGEANT BLUFF	5/12/2022	18:01	Tornado	EFU	0	0	0.00K	0.00K
SERGEANT BLUFF	7/4/2023	16:56	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SERGEANT BLUFF	7/12/2023	4:28	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SERGEANT BLUFF	10/3/2023	19:29	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SERGEANT BLUFF	5/20/2024	21:42	Hail	1.25 in.	0	0	0.00K	0.00K

SERGEANT BLUFF	5/20/2024	21:42	Thunderstorm Wind	65 kts. EG	0	0	0.00K	0.00K
SERGEANT BLUFF	6/12/2024	17:04	Hail	1.25 in.	0	0	0.00K	0.00K
SERGEANT BLUFF	7/7/2024	16:50	Hail	1.25 in.	0	0	0.00K	0.00K

Sgt Bluff has benefited from lessons learned and in-time response based on outcomes. Hosting large gatherings for special events (such as RAGBRAI) offers a trial-by-fire scenario requiring in-time adaptations and recovery. These experiences with an exponential (albeit temporary) growth in local population trigger other considerations. In particular – specifically a change in local demographics and a steady population increase. Several actions implemented in Sgt Bluff have reduced the risk of damages to/loss of property and offer protections to residents and visitors. Continuing a mindful approach to resiliency, the city is considering assessment of relatively new circumstances.

- Continuous growth in residential development. Population has steadily increased expanding the number of residential units (single- and multiple family) and all that goes with such growth – use of resources, utilities, facilities, and schools.
- Communication to migrant populations and homeless persons. As homelessness (by choice and circumstantial) rises, the city recognizes
 - The need to be able to communicate preparedness information and warnings of imminent dangers in multiple formats so that neither lack of technology nor language are barriers to safety.
 - Citizen rights and responsibilities. The city is assessing means of informing new residents, visitors, and migrant populations of their rights and responsibilities to better define mutual expectations between them and the city as well as their neighbors.
- Consideration of proposed economic development measures as may be implemented at county and state levels.
 - CO2 pipeline plans will directly affect local response teams requiring additional training and equipment

- Discussion of potential nuclear energy plant. While just introduced as an option, proactive measures are needed to prepare response units and residents for related awareness, including protocol for worst-case-scenario situations.

Priority Hazards

The city maintains the following as priority hazard concerns, largely due to cost of cleanup and broad impact on entire community.

- Tornado/Windstorm
- Severe Winter Weather
- Thunderstorm w/Hail & Lightning

Survey respondents indicated a high frequency of Very Concerned for Severe Winter Storm (5/7) and Tornado/Windstorm (5/7). Also notable concern was indicated for Expansive Soils (4/7), Infrastructure Failure, and Transportation Incidents. The hazards chosen when asked for the top three priority concerns are Thunderstorm with Hail & Lightning (5/7), Tornado/Windstorm, (4/7), and Infrastructure Failure (4/7).

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Sgt Bluff	New. Interest in developing public awareness campaign for emergency preparedness. Specific topic of interest: lightning awareness and safety. Others as deemed appropriate for season. Collaborate with County EMA for materials. <i>City Clerk</i> , (Local – General fund, no additional dedicated funding expected to be necessary) HIGH PRIORITY
Warning Siren	Sgt Bluff	New. City is considering need for additional warning siren due to development of East Campus which includes outdoor school sports facilities in addition to expansion of homes and trail connections. Implementation is dependent on school district development planning as well as population changes. <i>Fire Chief</i> . (Local - general fund, PDM funds, local community and foundation grants, School District funds) Currently HIGH PRIORITY but may downgrade pending school bond measure (2025)
tools/equipment		
Generator & Related Projects	Sgt Bluff	New: Dedicated generator still desired at Fire Department should funding become available. Fire Station serves as designated command center as needed. <i>Fire Chief</i> . (Local - general fund, GO Bond, PDM) MEDIUM PRIORITY
Generator & Related Projects	Sgt Bluff	New. Generator connections at all facilities. <i>Public Works Director</i> (Local - general fund, GO Bond, PDM) LOW PRIORITY

Equipment	Sgt Bluff	Carry Over (continuation of in-progress project). Handheld radios are in process of being replaced. Spring 2025 10 replaced with 4 still pending. <i>Fire Chief</i> . (Local funds for those already replaced, Local funds and response funds as available for remaining) HIGH PRIORITY
Equipment	Sgt Bluff	New . Fire department replacing Ambulance at \$305,000. <i>Fire Chief</i> . (Fire/EMS Foundation Funds) HIGH PRIORITY
Equipment	Sgt Bluff	New . Replace AED units. 2 existing units aging out of effective life. Seeking funding supports. <i>Fire Chief</i> . (Local – general fund, GO Bond, PDM) HIGH PRIORITY
Equipment	Sgt Bluff	New . Replace Life Packs. 35 are aging out of useful life. Expected cost is \$60,000. <i>Fire Chief</i> . (Local – GO Bond, general fund, Fire/EMS Foundation Funds, PDM) HIGH PRIORITY
Equipment	Sgt Bluff	New . Fire Dept planning replacement of Brush Truck pending funding availability. Replacement is approximately a year-long process with an estimated cost of \$100- to \$120,000. <i>Fire Chief</i> . (GO Bonds, fundraisers, community benefit grant, PDM) HIGH PRIORITY
Equipment	Sgt Bluff	Carry over . Replace 1 of 2 UTVs within 5 years. This remains a low priority activity. <i>Police Chief</i> (Local - general fund, fundraisers, pre-disaster/mitigation funds as applicable, emergency response equipment grants as available) LOW PRIORITY
Safety/Security Equipment	Sgt Bluff	New . Interested in acquiring and installing Flock Camera as means of community protection. This would be a collaborative effort with the City of Sioux City as a bordering community – due to planned placement, it may also be affected. <i>Police Chief</i> . (PD funds, local - general fund, private donations/fundraisers) HIGH PRIORITY
Safety/Security Equipment	Sgt Bluff	New . Collaborative effort to enable communication connections via software in Law Enforcement between City, County, and Sioux City. Cost estimates not currently available. <i>Police Chief</i> . (departmental and local general fund, Response funds as available, public safety funds as available) HIGH PRIORITY
development		
Relocate critical facilities	Sgt Bluff	Carry over . City maintains an Interest in relocating 2nd Fire Station for improved response to more areas; <i>City Admin</i> . (City general fund, Fire Dept Funds, Fire Assoc funds, fundraisers, Response Support funds) LOW PRIORITY
flow control		
refuge		
technology		
natural barriers/ supports		

Mitigation-specific projects are provided in the preceding project table. Other new projects

- Implementation of new Thorgaard lightning prediction system
- Additional generator for city facilities needed at City Hall, Public Works, Parks & Rec, and Police Department
- C Street road project planned to include flow control
- West Ridge Rd drainage project (collaboration with Sioux City) – across railroad and MidAmerican gas line

- Tree removal at a cost of \$20,000 per year. City is underequipped to handle volume.

13. SIOUX CITY

a. Profile

Sioux City is the largest city in Woodbury County. It is located in the northwestern quarter of the county. Interstate 29 runs along the western edge of the City. U.S. Highway 20 and State Highway 75 converge in Sioux City, as do several other County Roads and Highways. North Sioux City, South Dakota and South Sioux City, Nebraska contribute to the greater Sioux City metro region.

The Missouri River is located to the west of Sioux City and acts as a portion of its western border. This river also divides Iowa from Nebraska. The Big Sioux River meets with the Missouri River along the west side of the northern half of the City. The Floyd River meets with the Missouri in the Center of Sioux City. Several significant greenspaces include Stone State Park, Bacon Creek Park, Sioux City State Prairie Preserve, Riverside Park, South Ravine Park, Sertoma Park, Cone Park, and Chautauqua Park. More information can be found on the City of Sioux City website.

City Governance & Community Supports

Sioux City is governed by a five (5)-person City Council, which includes the Mayor and Mayor Pro-Tem. Offices in addition to Council include the following.

- | | | |
|--------------------------|---------------------|-------------------------|
| • Airport | • Events Facilities | • Parks & Recreation |
| • Art Center | • Field Service | • Police |
| • City Clerk | • Finance | • Public Works |
| • City Manager | • Fire Rescue | • Transit |
| • Com Center (911) | • Human Resources | • Underground Utilities |
| • Community Development | • Human rights | • Utilities |
| • Customer Service | • Legal | • Water Plant |
| • Economic Development | • Library | • Waste Water Treatment |
| • Engineering | • Museum | |
| • Environmental Services | • Parking | |

Sioux City is also served by several municipal boards including:

- Active Transportation Advisory Committee
- Airport Board of Trustees
- Art Center Board of Trustees
- Board of Adjustment
- Building & Housing Code Board
- Civil Service Commission
- Effective Fiscal & Public Policy Committee
- Environmental Advisory Board
- Events Facilities & Tourism Advisory Board
- Gjilan Kosovo Sister City Committee
- Historic Preservation Commission
- Human Rights Commission
- Library Board of Trustee
- Mayor's youth Commission
- Museum Board of Trustees
- Parking & Skywalk System Board of Trustees
- Parks and Recreation Advisory Board
- Planning & Zoning Commission
- Senior Advisory Committee
- Transit System Advisory Board
- Woodbury County Information & Communication Commission
- Yamanashi City Sister City Committee

The Sioux City Police Department is composed of 119 sworn officers and 25 civilian personnel. The City also has a Fire and Rescue Department. Services performed by this department include fire suppression, emergency medical services, prevention and education, and training. Fire Personnel are employed by the city. There are eight (8) stations throughout the city and one training center. Several 28E agreements exist between Sioux City and surrounding communities and counties in regard to fire response and emergency response. Hazardous materials response serves other communities as a contracted service.

Demographics, Housing, & Economics

Sioux City, Iowa population from CensusReporter.gov⁶⁰ is estimated at 85,651 in 2023, presuming a decrease from 85,776 in 2020. The city has 32,843 households and a median household income of \$65,473, which is notably higher than the average for Woodbury County, reflecting a relatively strong economic position. Sioux City's population includes a significant number of both young children and older adults, with a larger share of seniors compared to both the county and the state. The percentage of residents living below the poverty line is in line with the county but

⁶⁰Source: <https://censusreporter.org/profiles/16000US1973335-sioux-city-ia/>

higher than the state average, indicating a moderate level of economic hardship within the community. Additionally, Sioux City has a higher percentage of residents living with a disability compared to both Woodbury County and the state, suggesting a need for targeted services and support for individuals with disabilities.

<i>Community Characteristics</i>	
Population (2023)	85,727
Population (2020)	85,776
Total Households	32,843
Median Household Income	\$65,473
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	5,221	6.1%	7.3%	6.3%
65 years and older	12,744	15%	14.3%	16.0%
Below the poverty level	12,859	14.6%	14.0%	12.0%
Living with a disability	13,304	15.8%	12.4%	11.6%

Sioux City, Iowa, has a total of 34,901 housing units, with 32,807 of them occupied, reflecting a strong housing demand. This estimate indicates an increase of over 1000 housing units since the 2020 HMP which reflected 2010 decennial census estimates. The city has a relatively low vacancy rate of 6%, indicating stability in its housing market. Mobile homes make up a small portion of the housing stock. The majority of homes in Sioux City were built before 1970, with a significant number constructed between 1970 and 1999. A smaller share of the housing was built after 2000, suggesting that while there is some new development, the housing stock is largely composed of older homes. This mix of housing ages provides a variety of living options for residents, though it may also highlight potential needs for updating and modernization in some areas.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	34,901	-
Occupied	32,807	94%
Vacant	2,094	6%

Mobile Homes	1,047	3%
<i>Age of Residential Structure</i>		
Built 2000 or later	2,122	6.3%
Built 1970 – 1999	8,851	26.2%
Build 1969 or earlier	22,836	67.5%

More demographic and community data can be found on the U.S. Census webpage for Sioux City.

Leading Employers

Large-scale employers operating within the City include but are not limited to:

- City facilities/offices
- 185th Air Refueling Wing / IA ANG
- Woodbury County offices/operations
- Bomgaars
- Hard Rock Hotel & Casino Sioux City
- Hy-Vee
- Mercy One
- Unity Point Health
- MidAmerican Energy
- Sabre Industries
- Wilson Trailer
- Seaboard Triumph Foods
- Smithfield Foods
- Sioux City Community School District
- Briar Cliff University
- Morningside University
- Western Iowa Tech Community College

Critical Facilities

<i>Miscellaneous City Facilities</i>	
City Hall	405 6 th St.
Animal Control Shelter	2400 Hawkeye Dr
Roth Fountain	924 4 th St
Martin Towers (bsmt + 2 flrs)	4th & Pierce St
SFD w/attached single car garage	2804 S Lewis Blvd
Transit Office & Garage	2505 4 th St.
Sign & Signal Shed; Shed	717-723 Omaha St.
<i>Airport Facilities</i>	

Airport Terminal	Duplex (21 units)
Passenger Loading Bridges (2)	Dwellings (4 units)
Parking Booth	Hangars (133 units)
Misc Bldgs, Equipment Storage, Offices	
<i>Police Department Facilities</i>	
Police Training Center	6602 Allison Ave
Police/Fire Headquarters	601 Douglas St
Police/Fire/Sheriff Memorial Monument	405 6th St
<i>Fire Department Facilities</i>	
Fire Stations (7)	<i>varied</i>
Fire Training Center	1701 Terminal Dr
Fire Storage Building	2119 18 th St
Regional Training Tower	6608 Allison Ave
<i>Central Maintenance</i>	
CM Garage; Fuel Station	1823 18 th St
CM Storage Building 10	1723 18 th St
<i>Public Works Facilities</i>	
Public Works HQ Field Office	1723 18 th St
Salt Storage Building	
Asphalt Plant	
Mntc & Storage Building	1823 18 th St
Public Service Garage & Storage, Bldg	1821 18 th St
<i>Environmental Services</i>	
ES Field Hdqtrs	1921 18 th St
Multiple Facilities & Bldgs	<i>(36 addresses)</i>
<i>Parking Ramps</i>	
<ul style="list-style-type: none"> • Heritage Parking (Ramp A) • Discovery Parking (Ramp B) 	<ul style="list-style-type: none"> • River's Landing Parking (Ramp D) • Martin Luther King, Jr Transportation Center
<i>Skywalk</i>	
Skywalk network - 13 connections	
<i>Libraries</i>	
Morningside Branch	4005 Morningside Ave
Perry Creek Branch	2912 Hamilton Blvd Lower B
Wilbur Aalfs Library	529 Pierce St
<i>Museums/Arts</i>	

Art Center	225 Nebraska St
Gilchrist Learning Center	220 Pierce St
Lamb Productions	417 Market St
Peirce Mansion	2901 Jackson St
Sgt. Floyd Welcome Center	1100 Larsen Park Rd
Sioux City History Museum	607 4 th St
<i>Indoor Rec/Event Centers</i>	
Convention Center	801 4 th St
IBP Ice Center	3808 Stadium Dr
Long Lines Family Center	401 Gordon Dr
Tyson Events Center	
Expo Center	
<i>Cemeteries</i>	
Floyd Park Cemetery	2500 7th St
Graceland Park Cemetery	2651 S Lakeport St
Logan Park Cemetery	3901 Stone Park Blvd

<i>City Parks, Pools, Splash Pads</i>		
Parks Storage/Misc Bldgs	1665 18th Street	
• Anderson Dance Pavilion	• Floyd Monument, Park	• Lewis & Clark Stadium
• Bacon Creek Park	• George St Children's Park	• Lewis Park, Pool
• Boat Ramp	• Grandma Moos Park	• Lyons Park
• Cecelia Park	• Grandview Park	• Macomb Park
• Chautauqua Park	• Headington Park	• MidCity Park
• Chris Larsen Park (expanded)	• Hillcrest Park	• Riverfront Playground
• Cone Park (expanded)	• Hi-View Park	• Riverside Park, Aquatic Center
• Cook Park, Skate Park, Splash Pad	• Kelly Park	• Rose Hill Park, Splash Pad
• Dale St Park; Splash Pad	• Kiddie Park	• Sanford Center Park
• Dinosaur Park	• Krumann Park	• Sertoma Park
• Emerson Park	• Leeds Park, Splash Pad	• Smith Villa Playground
• Fairmount Park	• Legacy Park	• Thompson Park
• Flight 232 Memorial	• Leif Erickson Park, Pool	• War Eagle Monument
<i>Ball Parks/Recreation Fields</i>		

• Center St. Park	• Kirk Hansen Park	• Riverside Recreational Complex
• Chautauqua Park	• Merch Headid Park	• Rueger Field
• Goldie Park	• Miracle Field	• Strikers Field
• Hubbard Park	• Pulaski Park	

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

- **Schools:**
 - Bryant Elementary School, 3040 Jones Street
 - Clark Early Childhood Center, 4315 Hamilton Boulevard
 - Hunt Elementary School, 2002 Nebraska Street
 - Irving Elementary School, 901 Floyd Boulevard
 - Leeds Elementary School, 3919 Jefferson Street
 - Liberty Elementary School, 1623 Rebecca Street
 - Loess Hills Elementary School, 1717 Casselman Street
 - Morningside Elementary School, 3601 Bushnell Avenue
 - Nodland Elementary School, 3300 S. Cypress Street
 - Perry Creek Elementary School, 3601 Country Club Boulevard
 - Riverside Elementary School, 2303 Riverside Boulevard
 - Spalding Park Elementary School, 4101 Stone Avenue
 - Sunnyside Elementary School, 2700 S Maple Street
 - Unity Elementary School, 1901 Unity Avenue
 - East Middle School, 5401 Lorraine Avenue
 - North Middle School, 2101 Outer Drive North
 - West Middle School, 3301 W. 19th Street
 - East High School, 3200 S. Cypress Street
 - North High School, 4200 Cheyenne Boulevard
 - West High School, 2001 Casselman Street
 - Sioux City Career Academy, 627 4th Street
- **Colleges & Universities**
 - Briar Cliff University, 3303 Rebecca Street
 - Morningside College, 1501 Morningside Avenue
 - St. Luke's College – UnityPoint Health, 2800 Pierce Street
 - Western Iowa Tech Community College, 4647 Stone Avenue
- **Hospitals**
 - MercyOne Siouxland, 801 5th Street

- UnityPoint Health – St. Luke’s, 2720 Stone Park Boulevard
- Siouxland Surgery Center, 600 Sioux Point Road
- American Legion, 4021 Floyd Boulevard
- Churches (numerous)
- Hotels and conferences centers (numerous)

This list is not exhaustive. Additional community supports may include private businesses and individuals. Residents of Sioux City can also utilize facilities and services provided by nearby communities. Cumulatively, these all add to the city’s network of support and communication in times of crisis.

Valuation of City Assets

A current valuation of assets was not provided for this update. Using the 2019 total of \$311,964,787, current estimated valuation with all investments and improvements considered, can increase that number by as much as 50%. The city will provide appropriate valuations for cost-benefit analyses for not only city assets, but also for private properties as may be affected by mitigative actions.

b. Participation

Facilitated by SIMPCO, Sioux City’s mitigation planning meeting was held at City Hall on October 30, 2024 with the following participants in attendance.

- Brad Bollinger, Police Lieutenant
- Brad Puetz, Utilities
- Jeremy McClure, Police Lieutenant
- Gordon Phair, Public Works
- Robert Padmore, City Manager
- Tom Pingel, Utilities
- Aaron Lisle, Fire Captain
- Chris Madsen, Senior Planner

Attendees at the planning meeting reviewed the listing of hazards in the 2023 State Plan, projects included in the 2020 Regional Hazard Mitigation Plan and related status, planned projects, actions, and strategies related to identified hazards, and recent natural disasters. Discussion included

Survey participation for the city accounted for 43 of 78 Woodbury County submissions. It is important to note that many of the responses were received during the Riverside Flood Recovery Resources Fair. As the recent disaster was the focus of the gathering, those responses are reactive but also particularly relevant, offering significant input on how residents may be better prepared for future like events.

Additional input was provided by Wade Schudt, City Planner, City of Sioux City throughout the planning process. Follow up and confirmation of applicable capabilities were confirmed via email communication with Jesse Dunn, Civil Engineer, City of Sioux City.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
<ul style="list-style-type: none"> Comprehensive Plan (2024) Capital Improvement Plan (annual) 	<ul style="list-style-type: none"> City Economic Development Plan Land Use Plan
Critical Facilities Plan (Mitigation/Response/Recovery)	
Emergency Response Plan (water systems)	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> Building Code Drainage Ordinance Floodplain Ordinance Historic Preservation Ordinance Landscape Ordinance Nuisance Ordinance 	<ul style="list-style-type: none"> Open Burn Restrictions Storm Water Ordinance 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 #190298C

ISO Fire Rating (not updated)	Class 2/9
Property Acquisition	For funded flood control projects (permanent easement plan, not implemented)
Planning/Zoning Boards	
<i>Staff/Department</i>	
<ul style="list-style-type: none"> • Building Code Official • Building Inspector • Development Planner • Emergency Management Coordinator • Emergency Response Team • Historic Preservation 	<ul style="list-style-type: none"> • Engineer • Mapping Specialist (GIS) • NFIP Floodplain Administrator • Public Works Official • Sioux City Fire Rescue • Commission and staff liaison
<i>Non-Governmental Organizations</i>	
American Red Cross	
Salvation Army	
Veterans Groups	
<ul style="list-style-type: none"> • American Legion Post 307 • Veterans of Foreign Wars Post 10753 • VFW Post 1973 • Daughters of the American Revolution (Martha Washington Chapter) • Children of the American Revolution (Sgt. Charles Floyd Society) 	
Homeowner Associations	Yes, In certain subdivisions
Neighborhood Associations	approximately 11 Neighborhood Coalitions
Chamber of Commerce	Siouxland Chamber of Commerce
<i>Community Organizations</i>	
<ul style="list-style-type: none"> • Junior League of Sioux City • Sioux City Lions Club • Rotary Club-Downtown Sioux City • Downtown Partners 	<ul style="list-style-type: none"> • Downtown Kiwanis • Fraternal Order of Eagles Sioux City #77 • Quota International of Sioux City • Rotary Club-Suburban Sioux City
<i>Local Funding Availabilities & Authorities</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
Levy taxes for a specific purpose	
Collect fees for water and sewer services	
Impact fees for new development	
Incur debt through	<ul style="list-style-type: none"> • general obligation bonds

<ul style="list-style-type: none"> • special tax bonds • private activities
Withhold spending in hazard prone areas

The city participates in the NFIP program with the Zoning Enforcement Officer serving as Floodplain Administrator. As of October 2025, Sioux City has zero RL/SRL properties.

Capabilities specific to Sioux City Fire & Rescue include:

- 137 Uniformed personnel and 4 Civilian personnel, Total 141
- These are all the first response vehicles-7 fire engines, 2 Trucks, 1 Heavy Rescue vehicle, 1 Command vehicle, 2 EMS Response vehicles, 4 first due Ambulances, Boats and 3 Fire Prevention vehicles.
- Also 4 Reserve Engines , 1 Truck, and 4 reserve ambulances.

City capabilities include consideration of natural disasters and other hazards beyond those requiring mitigation action through participation in this plan. The City of Sioux City, having in its borders areas susceptible to varying degrees of landslides, or gravitational mass movement, does have grading and setback slope requirements serving as preventive measures within its building codes.

Review of Actions Taken (Since 2019)

The following table updates the status of projects as identified in the 2020 HMP including those added by amendment in 2025.

communication /education		
tools/equipment		
Generator & Related Projects	Sioux City	2020: Generators for critical facilities where none are currently in place; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Generator & Related Projects	Sioux City	Update: Some generator acquisition/placement still needed.
development		
Improve existing facilities & infrastructure	Sioux City (amended &	2025: Carry over to 2025 HMP. Bacon Creek Conduit. Estimated \$35M project - Reconstruction and relocation beginning at Rustin Street continuing to the outlet west of Lewis Boulevard. The project addresses the deteriorated condition of the

	adopted 01/13/25)	existing conduit underneath Gordon Drive and the risk of structural failure, posing a risk to the traveling public on Gordon Drive. The conduit will be relocated from underneath Gordon Drive off-alignment and the capacity will be expanded to withstand a 100-year flooding event. The project improves resiliency of the utility, transportation infrastructure, and the region. <i>City of Sioux City, IA DOT.</i> (City of Sioux City Engineering Dept, CIP FY 2028) HIGH PRIORITY.
Improve existing facilities & infrastructure	Sioux City (amended & adopted 01/13/25)	<p>2025: Carry over to 2025 HMP. Bacon Creek Channel Reconstruction. Estimated \$18M project is a collaborative effort to stabilize the channel built in 1930. Flooding events have resulted in Missouri River backing up channel, causing entry to the combined sanitary sewer system. Backwater infiltration has caused significant damage to Wastewater Treatment Plant.</p> <p>Project addresses the compromised combined sanitary system and includes repurposing the existing site to coordinate with economic development and urban use vision planning. <i>City of Sioux City, IA DOT.</i> (City of Sioux City Engineering Dept., CIP FY2028) HIGH PRIORITY.</p>
flow control		
refuge		
technology		
natural barriers/ supports		

Additional mitigation-related projects completed since 2019 include the following.

- Updated power system needs are reflected in the CIP with a generator at the Police Department/Fire Department HQ facility.
- Fully equipped response UTV in place at training center – 2 more needed with 1 at urgent status.
- One well has been reconstructed with the addition of a flood barrier. Cost and Funding sources were not specified.

d. Risk Assessment

Contributing Factors

Review of the NOAA Storm Event database for Woodbury County between 11/1/2019 and 12/31/2024 provides 27 Sioux City/Sioux City Airport-specific events. Woodbury “Zone” records include 104 events generally impacting the city as well.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
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SIOUX CITY ARPT	8/10/2020	7:20	Thunderstorm Wind	50 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	8/10/2020	7:24	Thunderstorm Wind	58 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	8/5/2021	23:22	Thunderstorm Wind	52 kts. EG	0	0	2.00K	0.00K
SIOUX CITY	12/15/2021	16:21	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	12/15/2021	16:25	Thunderstorm Wind	65 kts. EG	0	0	10.00K	0.00K
SIOUX CITY ARPT	12/15/2021	16:23	Thunderstorm Wind	71 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	5/12/2022	15:54	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/12/2022	18:09	Thunderstorm Wind	59 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	5/30/2022	13:41	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	7/5/2022	15:49	Thunderstorm Wind	51 kts. MG	0	0	0.00K	80.00K
SIOUX CITY	7/7/2022	16:40	Flash Flood		0	0	0.00K	0.00K
SIOUX CITY	4/19/2023	19:14	Hail	1.00 in.	0	0	0.00K	0.00K
SIOUX CITY	5/10/2023	22:54	Hail	1.00 in.	0	0	0.00K	0.00K
SIOUX CITY	7/12/2023	4:20	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	7/12/2023	4:26	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	9/23/2023	11:30	Hail	1.25 in.	0	0	0.00K	0.00K
SIOUX CITY	10/3/2023	19:25	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/20/2024	21:42	Thunderstorm Wind	63 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	5/21/2024	5:26	Thunderstorm Wind	52 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	5/21/2024	5:19	Thunderstorm Wind	62 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	6/24/2024	19:00	Flood		0	0	0.00K	0.00K
SIOUX CITY	7/28/2024	14:40	Flash Flood		0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:39	Thunderstorm Wind	52 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:40	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
SIOUX CITY	7/29/2024	22:46	Thunderstorm Wind	51 kts. MG	0	0	0.00K	0.00K
SIOUX CITY ARPT	7/29/2024	22:45	Thunderstorm Wind	60 kts. MG	0	0	0.00K	0.00K
SIOUX CITY	8/29/2024	15:30	Flash Flood		0	0	0.00K	0.00K

Cumulative record of estimated property damage is \$12, 000 and crop damage is \$80,000. It is important to note that this system is record of reported incidents and related damages, not a full accounting of actual assessed damages. For example, the flooding event as recorded for June 24, 2024 resulted in significant damages in the Leeds and Riverside neighborhoods, including the complete loss of some homes. As of May 25, 2024, the city and many residents continue to work with FEMA and insurance providers to assess the full scope of loss.

Additional factors in determining risk include the following.

- Recent I-29 reconstruction improved roadway capacity and continues to serve as a north-south conductor from Kansas City to Canada.
- The Police Department specified a concern for turnover with 25 new appointments to the department within 2 years. At the time of the mitigation planning meeting, 119 of 131 positions are filled. Several factors contribute to high turnover including but not limited to retiring long-term employees, surplus of other employment opportunities, and it can be expected that there is some reduction of viable candidates due to overall low unemployment rates in the region. Other city departments are experiencing similar staffing shortages. Where feasible, roles are consolidated to fill the gaps. The city is conducting ongoing assessment of organizational structure to efficiently serve the community with available human resources.

Priority Hazards

The city maintains the following as priority hazards .

- Flood
- Severe Winter Weather
- Thunderstorm w/Hail & Lightning

Considerable discussion was held regarding Drought and its strain on the city's water supply. As expected, Flooding - Riverine and Flash (34 of 43) and Levee /Dam Failure (23/43) figure highly in the frequency of Very Concerned indications. Severe Winter Storm (22/43) and Tornado/Windstorm (21/43) are also recognized as concerning. Overall, when asked what they consider their top three concerns, respondents indicated Flash Flood, Tornado/Windstorm, and Severe Winter Storm.

Specific open-ended responses to the Personal Impacts portion of the survey include the following. Again, this is notable due to relevance of severe impacts of flooding suffered by many

respondents who were either victims of the flood or agents of the community programs that serve(d) them. Comments are provided in context of how they were written or discussed at time of survey where applicable. Some notes are added to clarify intent of comment.

- [note veteran & homeless impact] I am one of many that live on and off the river considered "non traditional housing" by FEMA, most call it homeless or encampment. When the waters hit a high point and flash flooding came from North of State or North levee gates releasing water many of us were took by surprise. Lack of access to "local news", "no emergency" or "early warning systems". The water rose quickly with little time to evacuate putting us between flood barriers and the water. Most of us lose gear critical to our survival. I am part of homeless vets not help by VA, westcare, but gave all at times.
- early notification of potential flooding -improved levee integrity
- Erosion-losing more of the riverbank. maybe putting red rock along the riverbank.
- Housing-displaced, needs accessible option -Not ready due to unknown
 - Note: Recommendation as noted per discussion with respondent: evac plan include actions for ADA
- IN NEED OF SUPPORT!!
- More notification of evacuation. More communication for City.
- Resident stated more warning would have been helpful.
- Resident stated sandbags were needed and not available.
- Resident stated earlier information would have been good
- It would have been prevented if it was sand bagged. It would help a lot if they would make fixing the appt, top priority.
- Concerned about extreme heat with regard to the low and moderate income populations
- We lack the staff and funding to respond to any issues at this point, existing infrastructure is overwhelmed and when the day comes, we will be face down and ass up.
- Investment in infrastructure is very important
- Notification from our natural disasters such as flooding and what plan the government plans to conduct. (2) For the people whose lives are in danger from the natural disaster

(flood) have emergency crews contact them early so they have time to get out. (3) For tornadoes having more buildings around with basements for people that live in mobile homes.

- Financial extreme hardships and high increase in costs of living. That is making it harder and harder to continue with providing the basic needs
- economic uncertainty; resource consumption
- none at this time
- Hail damage
- Yard washed away in most recent food

e. Mitigation Needs, Actions, & Strategies

The following table includes specific projects identified by the city.

communication / education		
Promo/Info	Sioux City	New. Improve communications of imminent dangers due to natural disaster: storm safety; extreme temperature protections; storm alerts (promote RED Alert program in use by city); Red Flag warnings, etc. <i>City communications department (no additional fund needs anticipated) HIGH PRIORITY</i>
Promo/Info	Sioux City	New. Efforts in progress to update Red Alert geo mapping capacity to specific areas and to address more than just snow city-wide. <i>Public Works, Communications Department.</i> (Local funds/annual budget) MEDIUM PRIORITY
tools/equipment		
Generator & Related Projects	Sioux City	Carry over. Generators still needed at Police Department and other City Facilities. Project remains necessary and carries into 2025 plan. <i>City Council, County EMA</i> (Local funds general budget , County supports, State/Federal response funds, PDM, Community Benefits funds) HIGH PRIORITY
Equipment	Sioux City (interest in same expressed by Ida Co.)	New. Sandbagging machine needed for local inventory. City would maintain as property with access through mutual aid for adjacent/nearby communities. Machine enables responders to produce the same amount of bags in 5 hours with 4-5 people as you can with 12-15 people loading manually in 30 hours. Investment estimated under \$50K. Regional impact. Parks Department. (Local - general fund, PDM/FMA) HIGH PRIORITY
Equipment	Sioux City	New. Add large capacity pump to city inventory. Estimated at \$210,000. Sioux City Utilities. (CIP FY 2026) HIGH PRIORITY
Equipment	Sioux City	New. Department needs an updated tool to open and close flood gates that is not electric. <i>Parks Department</i> (Local - general fund, PDM/FMA)) HIGH PRIORITY
development		

Policy	Sioux City	New. Policy/regulation needed to ensure all future wells and well projects must include means for permanent protections upon implementation. City Council, City Planning & Zoning. (No funds anticipated aside from staff hours to compile ordinance &/or modification of existing) HIGH PRIORITY
Relocate critical facilities	Sioux City	New. Sioux City is looking at relocation of Riverside lift station outside of potential flood area. Due to existing structure’s age, replacement may be warranted. Still in preliminary planning stages with expected cost not immediately available. <i>Public Works, Waterworks.</i> (local general budget funds, may be eligible for disaster/disaster mitigation funds, TBD) HIGH PRIORITY
Improve existing facilities & infrastructure	Sioux City (amended & adopted 01/13/25)	2025: Carry over to 2025 HMP. Bacon Creek Conduit. Estimated \$35M project - Reconstruction and relocation beginning at Rustin Street continuing to the outlet west of Lewis Boulevard. The project addresses the deteriorated condition of the existing conduit underneath Gordon Drive and the risk of structural failure, posing a risk to the traveling public on Gordon Drive. The conduit will be relocated from underneath Gordon Drive off-alignment and the capacity will be expanded to withstand a 100-year flooding event. The project improves resiliency of the utility, transportation infrastructure, and the region. <i>City of Sioux City, IA DOT.</i> (City of Sioux City Engineering Dept, CIP FY 2028) HIGH PRIORITY.
Improve existing facilities & infrastructure	Sioux City (amended & adopted 01/13/25)	2025: Carry over to 2025 HMP. Bacon Creek Channel Reconstruction. Estimated \$18M project is a collaborative effort to stabilize the channel built in 1930. Flooding events have resulted in Missouri River backing up channel, causing entry to the combined sanitary sewer system. Backwater infiltration has caused significant damage to Wastewater Treatment Plant. Project addresses the compromised combined sanitary system and includes repurposing the existing site to coordinate with economic development and urban use vision planning. <i>City of Sioux City, IA DOT.</i> (City of Sioux City Engineering Dept., CIP FY2028) HIGH PRIORITY.
Improve existing facilities & infrastructure	Sioux City	New: Wastewater Plant Improvement Project. In conjunction with other flood-affected area projects, the City is planning significant improvements to its wastewater treatment plant. Estimated at \$300M, the project will address system capacity updates, flood infiltration protections, and improved function overall. <i>City Utilities Department.</i> (BRIC, Local general budget matching funds) HIGH PRIORITY
Improve existing facilities & infrastructure	Sioux City	New. Improve outflow systems at Wastewater Plant. Estimated at \$1.5M. Protects river, local bodies of water. <i>Sioux City Utilities Dept. and related regulatory bodies – IDNR, etc.</i> (Local general budget funds, BRIC) HIGH PRIORITY
Improve existing facilities & infrastructure	Sioux City	New. Reconstruction of well planned, including addition of flood barrier. Project cost not provided. <i>Public Works, Water Dept.</i> (Local general budget funds, Federal/state funds as may be applicable) HIGH PRIORITY.
Improve existing facilities & infrastructure	Sioux City	New. City is seeking to construct a designated storage shed or container for flood response equipment. <i>Parks department.</i> (Local - general fund, PDM/FMA)) HIGH PRIORITY
Relocate critical facilities	Sioux City	New. Sioux City is looking at relocation of Riverside lift station outside of potential flood area. Due to existing structure’s age, replacement may be warranted. Still in preliminary planning stages with expected cost not immediately available. <i>Public Works, Waterworks.</i> (local general budget funds, may be eligible for disaster/disaster mitigation funds, TBD) HIGH PRIORITY

flow control

Flood protection	Sioux City	New. Flood Mitigation Ponding project for FY27 in Leeds area. Full scope to be determined – intent is to mitigate frequent occurrence of flash flood points by creating intentional water retention areas. Cost is estimated at \$4M. <i>Public Works, contracted services/labor.</i> (Local general budget funds, state mitigation funds as available) HIGH PRIORITY
Flood protection	Sioux City:	New. Levee Extension along Big Sioux River affecting Riverside neighborhood. The project estimated at \$2.5M is under review for implementation. Extreme historical flooding in 2024 resulted in flood protection actions as dictated in neighboring state jurisdiction. Outcome of that last-resort implementation exposed an otherwise protected area, with significant damage to or loss of approximately 70 homes. <i>Sioux City Public Works, related regulatory systems including but not limited to the Army Corp of Engineers.</i> (CIP requested, Local general budget Funds, BRIC) HIGH PRIORITY
Flood protection	Sioux City:	New. Infrastructure protection. Riverside Collector well- permanent flood barrier and elevated access to the well. <i>Parks Department.</i> (Local - general fund, PDM/FMA) HIGH PRIORITY
Flood protection	Sioux City:	New. Infrastructure protection. Well and switchgear in Chris Larsen boat ramp- needs a deployable closure structure instead of sand bags. Needs to have plan to increase wall height if necessary as it was under built. <i>Parks Department.</i> (Local - general fund, PDM/FMA) HIGH PRIORITY
Flood Protection	Sioux City	New. Hesco sandbags needed to improve flood prevention. This \$40, 000 project may also be categorized as Equipment. <i>Public Works.</i> (Local general budget funds, FMA funds, other response/emergency management funds as may be available) HIGH PRIORITY
Flood Protection	Sioux City	New. City is looking to replace wire weight gauge on Floyd River with USGS Auto-Read gauge, allowing remote alerts. <i>Parks Department.</i> (Local - general fund, PDM/FMA) HIGH PRIORITY
Drainage projects	Sioux City	New. Southbridge development will affect function of existing drainage ditch, which protects water treatment plant. A 46M project is planned and funded to ensure sufficient function FY26-28. <i>City Utilities</i> (CIP) HIGH PRIORITY
Drainage projects	Sioux City	New. City is planning stormwater drainage improvements at Pulaski Park area in Morningside. A collaborative effort with Morningside university resulted in \$1.5M investment, in the planning stage in 2025 with implementation set for 2026. <i>Public Works, Parks & Rec, Morningside University</i> (funding sources not identified beyond local general budget) HIGH PRIORITY
Drainage projects	Sioux City	New. City is planning targeted Reconstructing Undermined Pavement and Stormwater Drainage improvements including Pulaski Park area in Morningside. A collaborative effort with Morningside university resulted in \$1.5M investment, in the planning stage in 2025 with implementation set for 2026. <i>Environmental Services Dept. coordinated with Morningside University</i> (CIP) HIGH PRIORITY
refuge		
technology		
natural barriers/ supports		
Stabilization	Sioux City	New: Tree replacement plan included in CIP. Replace trees that have been removed due to dead/diseased as means of soil stabilization, wind break, and relief from extreme heat/sun events. Parks & Recreation Department. Local funds via CIP, grants as available - DNR, tree foundations, MidAmerican, etc.) HIGH PRIORITY.

Additional projects identified as necessary include the following.

- Re-establish voice-over capacity to warning siren system
- Generators at firehouses – added in recent project but still needed at other stations
- Police dept needs:
 - High end drone with thermal imaging capacity (\$25,000)
 - UTV (\$30,000 fully equipped as PD unit)

Projects specific to SCFR department include:

- CIP 159-018 – Apparatus Replacement – In FY207, we will be replacing the squads, to include chassis and lift arm mechanisms/mounts. This is utilized both as EMS response vehicles, but also grass rigs, tow vehicles for rescue boats, and general utility functions. The estimated cost is \$392,094.
- CIP 159-031 Public Safety Generators – Station 1 will be replaced in 2025, so may be a little late on that one. But HQ is scheduled to be replaced in 2028 at an estimated cost of \$83,000.
- CIP 539-227 Bypass Pumping Equipment – According to Brad Puetz, the city is looking into purchasing a 10-inch portable dry prime trash pump and 400 feet of suction and discharge hose for use during flood emergencies. This project was proposed after the Riverside flood and has an estimated cost of \$120,000.
- Storm Sirens (unspecified locations)
 - Currently using old radio technology, interest in updating internal radios to be on 800 trunked system – HIGH PRIORITY
 - Update to the sirens to solar power to eliminate the need for MidAmerican feed.
 - Study to determine proper city coverage

14. SLOAN

a. Profile

The city of Sloan is located in the southwest corner of Woodbury County, just east of Interstate 29. State Highway 141 and Old Highway 75 intersect at the southwest corner of the city. Boyer Ditch continues south out of the City. More information about Sloan can be found on the city's website at <https://sloania.com/>.

City Governance & Community Supports

Sloan is governed by a five (5) person elected council and the Mayor. Offices in addition to the Mayor and Council include the following.

- Emergency Services (Fire & Rescue Department)
- Gas & Electric Utilities
- Local Phone / Cable / Internet Utilities Parks & Recreation
- Sanitation & Recycling
- Water Utility

The city is also served by the Planning & Zoning Commission. The City of Sloan Fire and Rescue Department is staffed by volunteers. Law enforcement is provided by the County.

Demographics, Housing, & Economics

CensusReporter.org estimates a population of 884 for Sloan in 2023⁶¹, showing a decline from decennial census estimate of 1,042 in 2020. With 372 households, the community enjoys a median household income of \$73,750, which is significantly higher than the Woodbury County average, reflecting a stronger local economy. Sloan's population includes a larger percentage of older adults compared to the county and state, with nearly 19% of residents aged 65 and over. The number of young children is relatively low, which is in line with the state average. While the poverty rate in Sloan is slightly below the county average, it still reflects some

⁶¹ Source: <https://censusreporter.org/profiles/16000US1973605-sloan-ia/>

economic challenges. Additionally, the percentage of residents living with a disability is lower than the state average but slightly above the county's, indicating a moderate need for accessible services and support.

<i>Community Characteristics</i>	
Population (2023)	884
Population (2020)	1,042
Total Households	372
Median Household Income	\$73,750
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	51	5.8%	7.3%	6.3%
65 years and older	167	18.9%	14.3%	16.0%
Below the poverty level	138	12.6%	14.0%	12.0%
Living with a disability	91	10.3%	12.4%	11.6%

Sloan, Iowa, has a total of 378 housing units, with 370 of them occupied, resulting in a high occupancy rate of 98%. The vacancy rate is quite low, with only 8 units vacant. Mobile homes make up a small portion of the housing stock. The majority of homes were built before 1970, while nearly half of the housing was constructed between 1970 and 1999. A smaller number of homes were built after 2000, indicating that most of the housing stock in Sloan is older. This mix of housing ages suggests a relatively well-established community, though there may be opportunities for updating and modernizing some of the older structures.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	378	-
Occupied	370	98%
Vacant	8	2%
Mobile Homes	4	1%
<i>Age of Residential Structure</i>		
Built 2000 or later	32	6.9%
Built 1970 – 1999	206	44.7%

Build 1969 or earlier	223	48.4%
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More demographic and community data can be found on the U.S. Census webpage for Sloan.

Leading Employers

Sloan is primarily composed of smaller businesses and workplaces. Leading employers in/near the city include:

- Westwood Community School District
- Uncommon Grounds
- WinnaVegas Casino and Hotel (outside city limits)

Critical Facilities

City Hall	428 Evans St
Community Center	423 Evans St
Park & Splash Pad	418 Alderson St
Park Restrooms	403 Buckley
Water Treatment Plant	700 Johnson St
Maintenance Garage	
Sewage Treatment Plant	
Pump/Electric Switches	5th St @ Brown St
Water Tank	Old Hwy 75 @ Johnson St
Pump House	425 4th St
Sports Complex	400 8th St
Hopkins Bldg	502 Brown St
Library	502 Evans St
Lift Station	1870 Hwy 141
Golf Course/Clubhouse	3212 Old Hwy 75
Transformer	
Pump House	208 5th St
Water Tower	

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

Westwood Schools	1000 Rebel Way
Burgess Clinic	409 Evans St
Community Church of Christ	502 Beall
Skien Lutheran Church	11929 Aspen Ave
Evangelical Covenant Church	306 Buckley

This list is not exhaustive. Additional community supports may include other private businesses and individuals. Residents of Sloan can also utilize facilities and services provided by nearby communities. Cumulatively, these all add to the city's network of support and communication in times of crisis.

Valuation of City Assets

Total Blanket TIV	\$	10,685,053
Building	\$	10,031,530
Personal Property	\$	653,523
Misc Property Sched	\$	158,500
Misc Property Unsched	\$	<u>67,788</u>
Total TIV	\$	<u>10,911,341</u>

b. Participation

An in-person mitigation planning meeting, facilitated by SIMPCO was held at Sloan City Hall on February 18, 2025 with City Clerk Dixie Peters in attendance. One survey was submitted indicating Sloan as jurisdiction of residence.

c. Community Capabilities

<i>Plans/Guidance Documents</i>
Comprehensive Plan

<i>Policies/Ordinance</i>	
• Building Code	• Storm Water Ordinance
• Drainage Ordinance	• Subdivision Ordinance
• Floodplain Ordinance	• Tree Trimming Ordinance
• Landscape Ordinance (w/in covenants)	• Zoning Ordinance
• Nuisance Ordinance	
<i>Programs</i>	
Zoning/Land Use Restrictions	
Codes Building Site/Design	w/in covenants; restrictions when buying
National Flood Insurance Program (NFIP) Participant	CID #190299C
ISO Fire Rating (not updated)	Sloan Class 6; Sloan FD, Class 6/9
Property Acquisition	
Planning/Zoning Boards	
Tree Trimming Program	
<i>Staff/Department</i>	
Building Code Official	
Building Inspector	
Public Works Official	
Emergency Management Coordinator	City clerk @ local level
Emergency Response Team	Fire and Rescue
<i>Non-Governmental Organizations</i>	
Veterans Groups	Smith-Rhodes American Legion
<i>Local Funding Availability</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
Levy taxes for a specific purpose	
Collect 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 Mayor serving as Floodplain Administrator. Sloan has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

communication/education		
Warning Sirens	Sloan/ Westwood Schools	2020: Warning siren at south end of town, serving school & rec facilities; <i>City Council, County EMA</i> (Local funds, County supports, State/Federal response funds, PDM, Community Benefits funds) MEDIUM PRIORITY
Warning Sirens	Sloan	Complete. A siren was installed to better serve the areas of outdoor school facilities.
tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/supports		

The city's comprehensive plan was completed in 2020. In time for anticipated housing development, Sloan has adopted the IBC and IPMC by reference with exceptions as means of increasing resiliency. The city installed a new bathroom at the city park serving dual purpose as a modest shelter. They have also added a splash pad to better offer residents and visitors respite from extreme heat.

The city is monitoring dead/diseased trees in easements, rights of way, and parking. Removal is drawn from the annual budget as needed. Replacement will be addressed through Parks and Recreation, as an ongoing assessment of need.

d. Risk Assessment

Contributing Factors

An assessment of the NOAA Storm Event database includes seven reports specific to Sloan, many for the same day.

<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>
SLOAN	5/12/2023	18:46	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
SLOAN	7/12/2023	4:35	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:29	Hail	1.50 in.	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:33	Hail	1.50 in.	0	0	0.00K	3.00K

SLOAN	6/12/2024	17:49	Hail	1.75 in.	0	0	0.00K	0.00K
SLOAN	6/12/2024	17:50	Hail	2.00 in.	0	0	0.00K	0.00K
SLOAN	6/22/2024	22:00	Flood		0	0	4.130M	0.00K

Priority Hazards

- Tornado/Windstorm
- Severe Winter Storm
- Flood – *both river and flash flood issues as they impact residential basement flooding*

Survey response indicates significant concern about Dam / Levee failure.

e. Mitigation Needs, Actions, & Strategies

communication/education		
Promo/Info	Sloan	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		
development		
Improve existing facilities & infrastructure	Sloan	New. Sloan is preparing for a water infrastructure improvement project including wastewater treatment and a new water tower. The project will include generators and/or generator transfer switches where applicable and practical. Project is expected to exceed \$3M. <i>Public Works, contracted engineer.</i> (Local general budget funds, loans, others as may become available.) HIGH PRIORITY
Improve existing facilities & infrastructure	Sloan	New. Sloan is seeking funding to support add lighting to parks and enhance trail network to improve access as well as general public safety and wellbeing. <i>City Council, Parks committee.</i> (Local general budget funds, others to be determined.) HIGH PRIORITY
flow control		
refuge		
technology		
natural barriers/supports		

Road projects are planned, with most consisting of routine maintenance. Drainage maintenance/improvements will be addressed as applicable. Projects that are not necessarily mitigative but essential for community health include a new housing development.

15. SMITHLAND

a. Profile

The city of Smithland is situated in south central Woodbury County. State Highways 141, 31, and 92 all converge near the center of Smithland. The Little Sioux River runs to the east and south of the City. An oxbow lake can be found just south of city limits.

City Governance & Community Supports

Smithland is governed by a five (5) person elected City Council and a Mayor. Offices in addition to Mayor and Council include City Clerk. The Little Sioux Grant Township Fire Department is located in Smithland and is staffed by volunteers. The City contracts with Woodbury County for law enforcement services. The City of Smithland is a member of the NFIP program.

Demographics, Housing, & Economics

For Smithland, Iowa, CensusReporter.gov shows an estimated population of 148 in 2023⁶², down from decennial census estimates of 187 in 2020. The same source shows town has 76 households and boasts a relatively high median household income of \$83,000, significantly higher than the average for Woodbury County. Smithland has a notably older population, with nearly 38% of its residents aged 65 and over, far above both the county and state averages. The town has a very small percentage of young children, consistent with a more mature demographic. The poverty rate in Smithland is low, reflecting overall economic stability, though the town does have a higher percentage of residents living with disabilities compared to the county. This may indicate a need for additional services and support for individuals with disabilities in the community.

⁶² Source: <https://censusreporter.org/profiles/16000US1973650-smithland-ia/>

<i>Community Characteristics</i>	
Population (2023)	148
Population (2020)	187
Total Households	76
Median Household Income	\$83,000
Median Household Income – Woodbury County	\$51,350

<i>Vulnerable Populations</i>	<i>Count</i>	<i>Percent</i>	<i>Woodbury</i>	<i>Iowa</i>
5 years and younger	2	1.4	7.3%	6.3%
65 years and older	56	37.8%	14.3%	16.0%
Below the poverty level	9	4.7%	14.0%	12.0%
Living with a disability	36	17.6%	12.4%	11.6%

Smithland, Iowa, has a total of 93 housing units, with 76 currently occupied, resulting in an occupancy rate of 82%. The town has a relatively high vacancy rate of 18%, indicating some availability in the housing market. Mobile homes make up a small portion of the housing stock. The majority of the homes in Smithland were built before 1970, with a smaller number constructed between 1970 and 1999. Very few homes have been built since 2000, suggesting that most of the housing in the area is older. This aging housing stock may point to opportunities for renovation or updating to meet the needs of the community's current residents.

<i>Housing Characteristics</i>	<i>Count</i>	<i>Percent</i>
Total Housing Units	93	-
Occupied	76	82%
Vacant	17	18%
Mobile Homes	7	8%
<i>Age of Residential Structure</i>		
Built 2000 or later	2	2.2%
Built 1970 – 1999	22	24.2%
Build 1969 or earlier	67	73.6%

More demographic and community data can be found on the U.S. Census webpage for Smithland.

Leading Employers

Leading employers in town include the Country Store and Buffalo Joe's.

Critical Facilities

Smithland City Hall	110 Jackson St
Pump House	N Hickory
Ball Park	
City Maintenance Bldg	
Museum	S Hickory
Lagoon & Related	301 W Main St
Back-Up Well; Water Pump	210 Pine St

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

No major gathering places outside those as included in the Leading Employers list were noted.

Valuation of City Assets

Valuation of assets based on the 2025 statement of valuations provided by Smithland's insurance company including Building and Business Personal Property is ~~1p~~49,843 – more than double the valuation provided in 2020.

b. Participation

Facilitated by SIMPCO, a mitigation planning meeting was held at the Clerk's Office on December 16, 2024 with the following in attendance.

- Courtney Schmitt, City Clerk
- Paul R Frahm, Maintenance Superintendent

Three surveys of the 251 total primary surveys submitted indicate Smithland as jurisdiction of residence.

c. Community Capabilities

<i>Plans/Guidance Documents</i>	
Comprehensive Plan (2020)	
<i>Policies/Ordinance</i>	
<ul style="list-style-type: none"> • Building Code • Debris Management Plan • Floodplain Ordinance (updated 07/18/24) 	<ul style="list-style-type: none"> • Nuisance Ordinance • Subdivision Ordinance • Tree Trimming Ordinance
<i>Programs</i>	
National Flood Insurance Program (NFIP) Participant	CID #190300C
ISO Fire Rating	Smithland Class 8; Smithland FD Class 8/9
<i>Staff/Department</i>	
Public Works Official	
Emergency Management Coordinator	City clerk @ Local level
Emergency Response Team	Fire Department; Oto Ambulance
<i>Non-Governmental Organizations</i>	
Veterans Groups	Leslie F Seaton American Legion and Auxiliary
<i>Local Funding Availabilities & Authorities</i>	
Apply for Community Development Block Grants	
Fund projects through Capital Improvements funding	
Levy taxes for a specific purpose	
Collect 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. Smithland has zero RL/SRL properties.

Review of Actions Taken (Since 2019)

Smithland included one project in the 2020 HMP. The project described in the table below is carried over with modification to this Plan.

communication /education		
Warning Sirens	Smithland	2020: Warning siren improvement/replacement needed to better perform alerts for residents. Replacement or updating must include connection to County Communications Center. City Council. City staff, County EMA. (Local funds, county supports, community benefits programs, fundraising, PDM) HIGH PRIORITY
Warning Sirens	Smithland	Update. City has determined replacement of siren is necessary as parts are no longer available to maintain current siren.
tools/equipment		
development		
flow control		
refuge		
technology		
natural barriers/ supports		

Other actions taken since 2019 include a Floodplain Ordinance update.

d. Risk Assessment

Contributing Factors

The NOAA Storm Event database indicates one report specific to Smithland between 11/01/2019 and 12/31/2024. Events as categorized under Woodbury Zone and Monona Zone affected Smithland as well. Details of those events are included in respective county profiles under Risk Assessment.

Location	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
SMITHLAND	7/29/2024	23:08	Thunderstorm Wind	56 kts. EG	0	0	0.00K	0.00K

Priority Hazards

- Tornado/Windstorm
- Flood
- Grass or Wildland Fire

Survey respondents provided a high frequency indication of Very Concerned about Tornado/Windstorm, Flood, and Thunderstorm with Hail & Lightning. Specific response to Top Three Concerns prioritized Infrastructure Failure, Flood, and Tornado/Windstorm.

e. Mitigation Needs, Actions, & Strategies

communication /education		
Promo/Info	Smithland	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 (no funds needed)</i> HIGH PRIORITY
Warning Sirens	Smithland	Carry over. Replace warning siren. <i>Public Works, City Clerk, County EMA (local general budget funds, community foundation grants)</i> HIGH PRIORITY
tools/equipment		
Generator & Related Projects	Smithland	New. Generators are needed at the Wastewater Plant and Fire Hall as means of maintaining operations during power outages. <i>City Maintenance, County EMA (local funds general budget, community benefit funds, fundraisers, pre-disaster / mitigation funds as available)</i>
development		
flow control		
refuge		
technology		
natural barriers/ supports		

FINAL