

# City of Dumont, Iowa

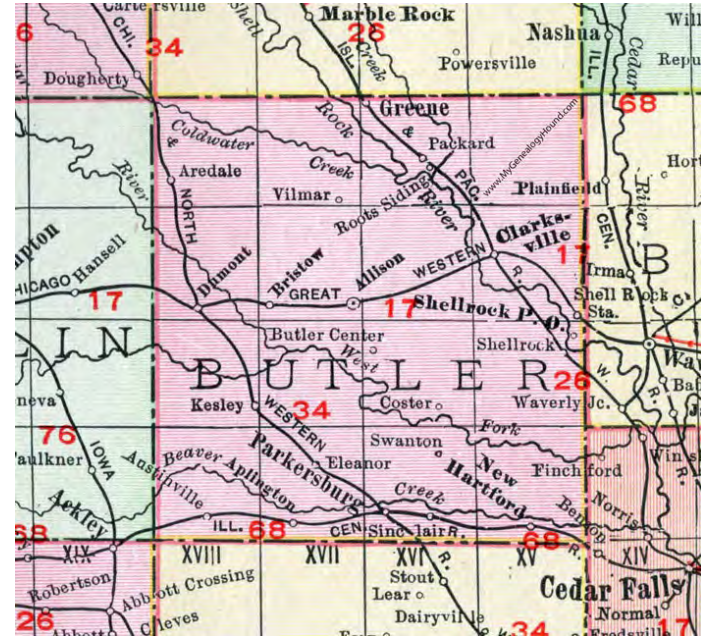
## Hazard Mitigation Plan 2025 Update

### Appendix F of Butler County Multi-Jurisdictional Hazard Mitigation Plan

Funded by the Butler County Emergency  
Management Agency

Prepared by Iowa Northland Regional Council  
of Governments (INRCOG)

January 2025



**INRCOG**  
Iowa Northland Regional  
Council of Governments

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2025 Dumont Hazard Mitigation Plan

Resolution Adopting Plan by City Council

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## 2025 Dumont Hazard Mitigation Plan

### About

The City of Dumont developed this Plan as part of the 2020 Butler County Multi-Jurisdictional Hazard Mitigation Plan update process. The 2025 Butler County Multi-Jurisdictional Hazard Mitigation Plan is a sequential 5-year update to the previous document. Federal regulations regarding how local governments may receive funding from FEMA require that the specified jurisdiction (city, school district, county) have an approved hazard mitigation plan that is in good standing (updated and FEMA approved) to remain eligible for grant funding. This Plan was developed to meet the requirements in Title 44 CFR § 201.6.

Elected officials, city clerks, planners, first responders, and other stakeholders were invited to attend planning committee meetings as participants to learn about hazard mitigation and complete data gathering assignments. These assignments were submitted to the plan development coordinators: Butler County Emergency Management Agency (EMA) and Iowa Northland Regional Council of Government (INRCOG). Butler County's EMA initiated and funded this effort for all participating communities and contracted INRCOG to coordinate the plan development process with a multi-jurisdictional approach.

Participating communities included all ten (10) incorporated municipalities of Butler County. County staff participating in the committee were representing their respective County departments. School district superintendents for public school districts attended and completed the data gathering assignments for their district communities. Four (4) committee

### FEMA's Emergency Management Cycle



#### What is Hazard Mitigation?

Hazard Mitigation is any *sustained* action taken to reduce or eliminate long-term risk to life and property from hazards.

The emergency management cycle has 4 phases:

- **Preparedness** is the assessment of potential risks, hazards, and vulnerabilities that a community may face. The development and updating of activities, programs, and systems before an event occurs is included in this phase of the cycle.
- **Response** is the immediate effects after a disaster.
- **Recovery** is a long-term phase that focuses on returning the community to normal after a disaster.
- **Mitigation** is an action that can occur at any phase.

meetings were held between October 1<sup>st</sup> and December 12<sup>th</sup> wherein each participant provided data and completed work sheets to develop their hazard mitigation plans.

### The Benefits of Hazard Mitigation for Local Governments

For local governments, there are benefits in knowing how specific hazards may affect their communities, its potential to cause negative impacts, and develop pre-disaster actions or activities to lessen or avoid those anticipated negative impacts. Benefits include:

- ✓ An increased understanding of how natural and human caused hazards develop under certain conditions which may inform a level of magnitude or intensity.
- ✓ Take advantage of the opportunity to create more sustainable and disaster-resistant communities.
- ✓ Participating in this collaborative intergovernmental effort is cost effective for all participants.
- ✓ Using limited resources to address the threat from hazard events that may have the biggest impact on the community.
- ✓ Reducing or preventing damage to existing structures and reducing their subsequent repair costs.
- ✓ Identifying vulnerable populations to establish equitable outcomes.

- ✓ Hazard mitigation involves a commitment to long-term goals that focus on lessening or reducing negative impacts of natural, and human caused hazards.

### The Planning Process

In order to reduce the threat of negative impacts from natural hazards, a risk informed approach was used in this planning process. A risk informed approach is a multi-step process. This Plan also involves collaboration among participants in the planning committee. The process involved learning the historical occurrence of when such hazards may have occurred in Butler County.

Participants in the Butler County Multi-Jurisdictional Hazard Mitigation Plan Planning Committee determined the level of risk facing their communities by completing a risk assessment. Data gathering by committee participants involved giving updates to existing mitigation activities by the local government.

**Participants in the Plan followed a general 5 step process. (below)**



## 2025 Dumont Hazard Mitigation Plan

### Community Data Sources

Population data is based on 2020 decennial Census data. The 2022 American Community Survey 5-year estimates are the latest and most reliable survey data sets to understand what is taking place in the county and each city. Most counties, cities, and towns rely on 5-year estimates. Employment, workforce, and industry figures in this Plan are estimates that have a margin of error.

It is important to note that the ACS estimates used for rural communities will have a degree of uncertainty associated with them, called sampling error, because they are based on a sample. In general, the larger the sample, the smaller the level of sampling error. Rural communities tend to have smaller samples than larger cities, so the “margin of error”—a measure of the precision of an estimate at a given level of confidence—likely will be larger for rural areas.

Crash data along roadways within each jurisdiction is collected between the period of 2019 and 2023. Using a map tool interface, the data was taken at a city level and presented to understand incident severity, casualties, and property damage from reported accidents. Accident data is added to the site daily and accessible through an online website, <https://icat.iowadot.gov/>.

In the risk analysis section of this Plan, estimates of property loss are measured using mapping of hazardous zones. For the vulnerability risk assessment, flood prone homes were determined using the boundaries of the 100 year (1%) annual chance flood zone. The value of potential property loss was derived from the 2023 assessed dollar value of

structures and dwellings on affected parcels provided by the Butler County Assessor’s Office.



Dumont Area Emergency Center



## City Profile

**Jurisdiction: City of Dumont**

**County: Butler County**

**Population (2020): 634**

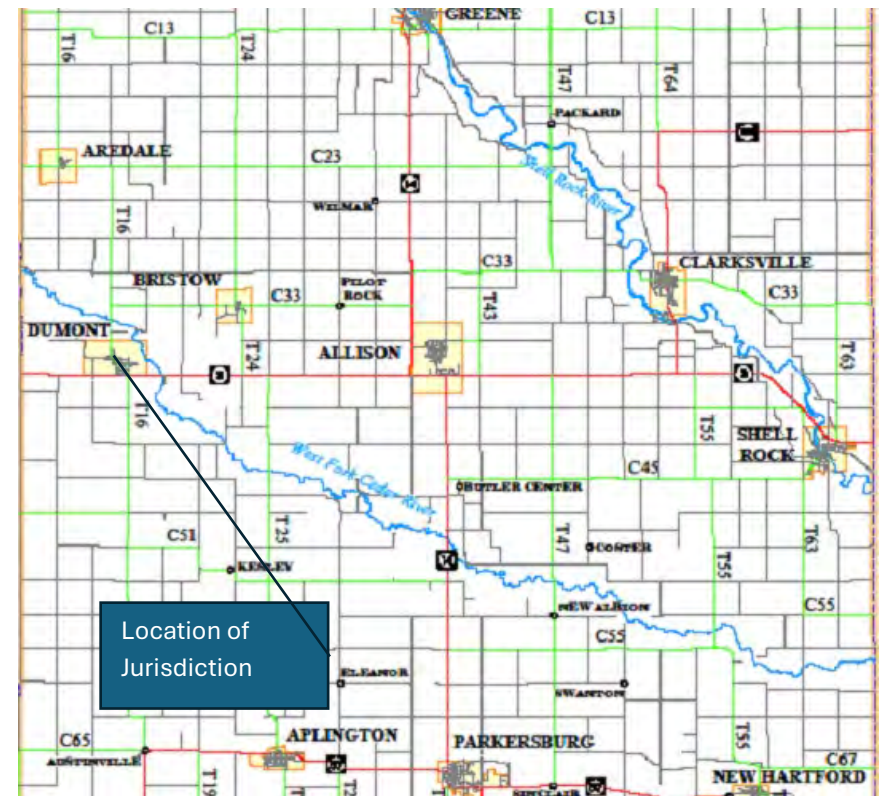
The City of Dumont is located in the western portion of Butler County, approximately 10 miles east of Highway 65.

The following data presented in tables on the following page include population, employment, and industry sector data for the community based on 2020 Census data and 2022 American Community Survey 5-year Estimates.

In 2020, the city's population was 634 and 93.5% were White with the median age is 45. Working aged residents (15-64 years) made up 56.9% of the population. Children and teens (younger than 15 years) made up 16% of Dumont's population while older adults (older than 65 years) made up 27.1%.

The median household income in 2022 was \$49,625. The estimated unemployment rate was 4.0%. Most people commute to work, and three people work from home. The top three largest industry sectors in Dumont are as follows (in order from highest to lowest): 1) Education services, and health care and social assistance; 2) Retail Trade, and 3) Manufacturing.

**Figure 1: Map of Butler County**





2025 Dumont Hazard Mitigation Plan

<b>Table 1: Population Data (2020)</b>		
City of Dumont		
	Total	% of Population
Total population	634	100%
AGE		
Under 5 years	32	5.0%
5 to 9 years	28	4.4%
10 to 14 years	42	6.6%
15 to 19 years	43	6.8%
20 to 24 years	36	5.7%
25 to 29 years	33	5.2%
30 to 34 years	31	4.9%
35 to 39 years	33	5.2%
40 to 44 years	39	6.2%
45 to 49 years	34	5.4%
50 to 54 years	31	4.9%
55 to 59 years	41	6.5%
60 to 64 years	40	6.3%
65 to 69 years	46	7.3%
70 to 74 years	34	5.4%
75 to 79 years	39	6.2%
80 to 84 years	17	2.7%
85 years and over	35	5.5%
Median Age	45.0	-
RACE		
White	593	93.5%
Black or African American	1	0.2%
Hispanic or Latino (of any race)	0	0%
American Indian and Alaska Native	0	0%
Asian	0	0%
Native Hawaiian/Other Pacific Islander	0	0%
Some Other Race	19	3.0%
Two or More Races	21	3.3%

Source: 2020 Census, 2022 ACS 5-Yr Estimates

<b>Table 2: Employment Data (2022)</b>		
City of Dumont		
	Value	% of Population
Median Household Income	\$49,625	-
Unemployment Rate (2022)	4.0%	-
Workers that commute to work	303	99.7%
Workforce that works from home	1	0.3%

Source: 2022 American Community Survey 5-Yr Estimates

<b>Table 3: Employment Industry Data (2022)</b>		
City of Dumont		
Workforce Industry	# of Workers	% of Workforce
Workforce	308	100%
Agriculture, forestry, fishing and hunting, and mining	21	6.8%
Construction	42	13.6%
Manufacturing	49	15.9%
Wholesale trade	1	0.3%
Retail trade	58	18.8%
Transportation -warehousing, utilities	14	4.5%
Information	5	1.6%
Finance and insurance, and real estate and rental and leasing	1	0.3%
Professional, scientific, and management, and administrative and waste management services	7	2.3%
Educational services, and health care and social assistance	63	20.5%
Arts, entertainment, and recreation, and accommodation and food services	10	3.2%
Other services, except public administration	11	3.6%
Public administration	26	8.4%

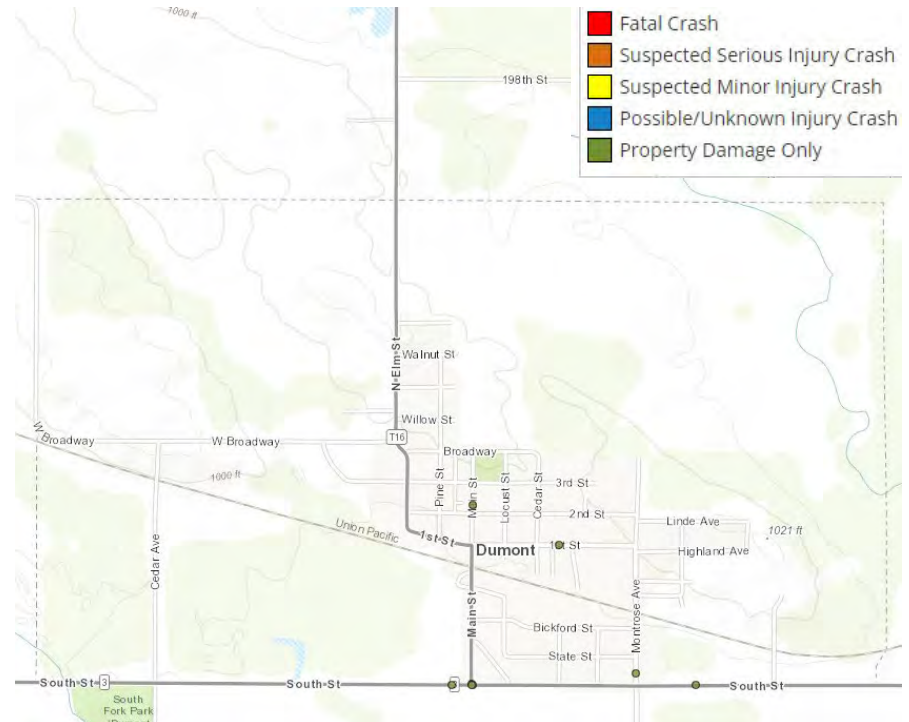
Source: 2022 American Community Survey 5-Yr Estimates

### Highway Traffic and Crash Data

Based on Iowa DOT crash data, between 2019 and 2024 there have been 8 incidents. Of those incidents, most were for property damage only, with one unknown, resulting in \$101,250 in total damage. No fatalities or crashes with severely injured persons were reported.

Table 4: Crash Data from 2019-2024	
<b>Total Crashes</b>	8
<b>Crash Severity</b>	
<b>Fatal</b>	0
<b>Suspected Serious Injury</b>	0
<b>Suspected Minor Injury</b>	0
<b>Unknown</b>	1
<b>Property Damage Only</b>	7
<b>Property Damage Total</b>	\$101,250
<i>Source: Iowa DOT Crash Data</i>	

**Figure 2: Iowa Crash Analysis for All Traffic Incidents (2019-2024)**



Source: Iowa DOT

### Housing Data

The City of Dumont has 285 occupied housing units. Nearly 91% of them are single family detaching housing. According to the American Community Survey, there are 0 housing units that are mobile homes or other types of housing. However, the city survey counts 7 mobile homes. There are 26 or 9.1% multifamily housing units (greater than 2 units).

A large portion of the housing stock was built prior to 1940 (56.8%). About 88% of the housing stock was built prior to 1980. Most homes heat using utility gas (77.5%) or electricity (18.6%).

### Community Utility Providers

MidAmerican Energy provides utility electric services and natural gas services. Dumont Telephone provides telephone services and internet services. Residents receive water and

Table 6: Utility Providers	
City of Dumont	
Electric	MidAmerican Energy
Natural Gas	MidAmerican Energy
Telephone/Internet	Dumont Telephone
Cable TV	Dumont Telephone
Water Services	City of Dumont
Sewer Services	City of Dumont
Sanitation	Jendro Sanitation Services

sewer services from the city.

Table 5: Housing Data (2022)		
City of Dumont		
	Total	% of Occupied Units
Occupied housing units	285	100%
<b>Housing Unit Type</b>		
1, detached	259	90.9%
1, attached	0	0%
2 apartments	0	0%
3 or more apartments	26	9.1%
Mobile home or other type of housing	0	0%
<b>Year Structure Built</b>		
2020 or later	0	0%
2010 to 2019	19	6.7%
2000 to 2009	2	0.7%
1980 to 1999	26	6.3%
1960 to 1979	44	15.4%
1940 to 1959	32	11.2%
1939 or earlier	162	56.8%
<b>House Heating Fuel</b>		
	Total	% of Occupied Units
Utility gas	221	77.5%
Bottled, tank, or LP gas	0	0.0%
Electricity	53	18.6%
Fuel oil, kerosene, etc.	3	1.1%
Coal or coke	0	0.0%
All other fuels	6	2.1%
No fuel used	2	0.7%

Source: 2022 American Community Survey 5-Year Estimates

### Vulnerable Assets

#### People

Vulnerability to hazard losses increases where there are larger concentrations of people. In towns where population density increases, the number of people that can be harmed during a hazard event (tornado, flood, etc.) increases. In addition, there are segments of the population that may be more susceptible to impacts and/or harm from a hazard depending on their location within the area (i.e. flood zone or near industrial plants with hazardous materials). This includes underserved or socially vulnerable populations.

#### *Vulnerable Age Groups*

Both younger and older aged groups are likely to require assistance with physically moving to shelters or finding safety. Elderly residents may not have a personal vehicle to move away from a hazard quickly. Cognitive impairments among older adults may cause some to get easily confused.

#### *Households Facing Poverty or With Limited Income*

Families or older adults living at, near, or below poverty are more likely to be impacted by hazards than other households with higher incomes. The costly repairs from a tornado or derecho for a low-income household may be more adversely affected than another household that has the same damage but may be able to afford the repairs without much change to their lifestyles or needs. That disparity is also different during extreme weather events such as heat waves. Low-income households may not be able to afford the electricity to run air conditioning and many may face

complications that involve heat stroke, fatigue, or death due to their age (infants or the infirm) and health conditions (obesity, heart conditions, diabetes).

#### *Dumont's Vulnerable Populations*

In Dumont, 13.8% of individuals are below the poverty level. About 42.8% (122) of occupied households have elderly occupants (60 years and over). About 11.2% of occupied households have elderly residents (65 years and over) living alone

Most residents have access to vehicles. There are no households that lack access to a vehicle. About 12% of households have a person living with a disability. This is broadly defined from the data estimates for Dumont. However, persons with mobility disabilities may be at a higher risk than others especially during unexpected natural disasters where accessibility is not always guaranteed to shelter.

Manufactured homes are unsafe in a tornado. Fatality rates are significantly higher than sturdy buildings. An alternative shelter should be identified prior to a tornado watch or warning. In 2022, there are 7 mobile homes estimated in Dumont.

The most recent decennial census date accounted for about 30 individuals in institutionalized quarters, which were likely in nursing/skilled-nursing facilities. However, the nursing home in Dumont closed in 2022.

### **Critical Facilities**

#### Water Supply

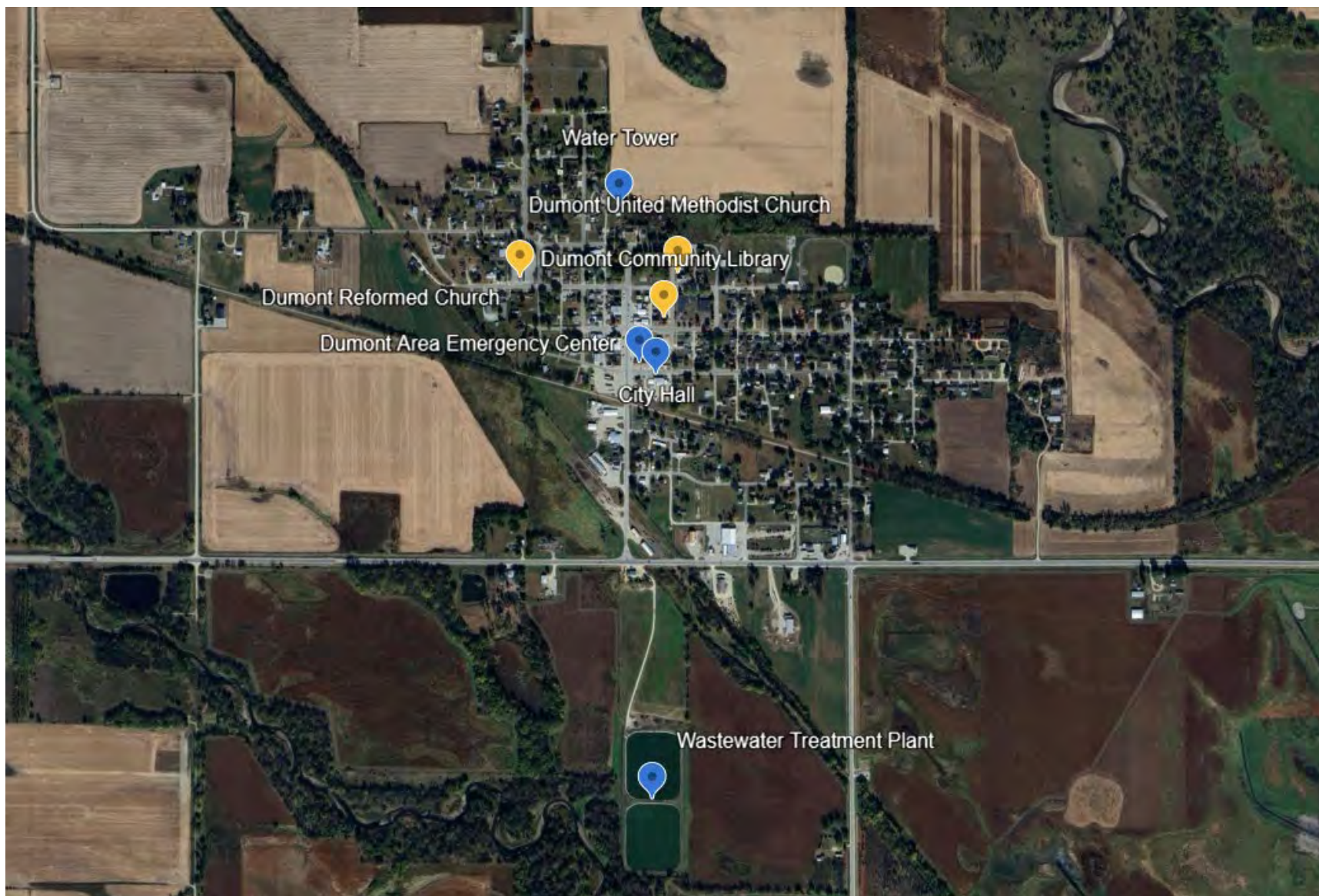
The City of Dumont utilizes a municipal water supply system serving approximately 630 residents. Water is supplied by two active wells, known as Dumont #1 and Dumont #2, both drawing from the Devonian aquifer, at 185 feet and 285 feet respectively. Both water sources are treated with liquid chlorination and polyphosphate for disinfection. The city has a 150,000 gallon water tower for storage to maintain consistent water pressure.

#### Wastewater Treatment Plant

The City of Dumont operates a wastewater treatment facility utilized by most residents. The facility discharges waste through a three-cell aerated lagoon facility. Eight residents utilize septic systems.



Figure 3: Critical Facilities



### Measuring Vulnerability to Selected Hazards

#### Tornado Hazard

Although there is no recent history of tornadoes in Dumont, the city remains vulnerable.

All buildings in Dumont are prone to being damaged by a tornado. Therefore, the vulnerability of the community was determined by the assessed valuation of all buildings and dwellings on all parcels within the city’s limits.

Using the assessed value from December 2023, the valuation of all 512 parcels in the City of Dumont is \$26,944,020 based on Butler County assessor data. The City of Dumont has a potential property loss of \$23,226,130 from a tornado disaster.

<b>Table 7: Valuation of All Parcels in City of Dumont (2023)</b>	
Percent of City at Risk of a Tornado	100%
# of Parcels	512
Total Assessed Value of Buildings and Dwellings on Affected Parcels in 2023	\$23,226,130
Source: Butler County Assessor’s Office	

#### Flood Prone Areas

The potential property losses of structures prone to flooding were calculated using the effective flood insurance rate map (FIRM) flood hazard zones for a 100-year (1%) annual chance flood.

Assessing the community’s vulnerability to losses from tornado and flood hazards is determined with county assessor data. The potential property losses of structures prone to flooding were calculated using the effective flood insurance rate map (FIRM) flood hazard zones for a 100-year (1%) annual chance flood.

In Figures 4 and 5, the flood plain map shows the 1% annual chance of flooding in and around the City of Dumont. The river basin is depicted in the topography shown on the map.

The parcels that are impacted by the 1% annual chance of flood are highlighted in Figure 6. There are 77 parcels within Dumont that are potentially affected. The value of all buildings and dwellings on the affected parcels is \$2,092,830 based on the latest Butler County Assessor’s information. This covers 11.88% of the city’s total parcels.

<b>Table 8: Potential Property Losses from the 1% Annual Chance Flood</b>	
Percent of City Affected	11.88%
# of Parcels	77
Total Assessed Value of Buildings and Dwellings on Affected Parcels in 2023	\$2,092,830
Source: Butler County Assessor’s Office	



**Figure 4: Flood Plain Map**

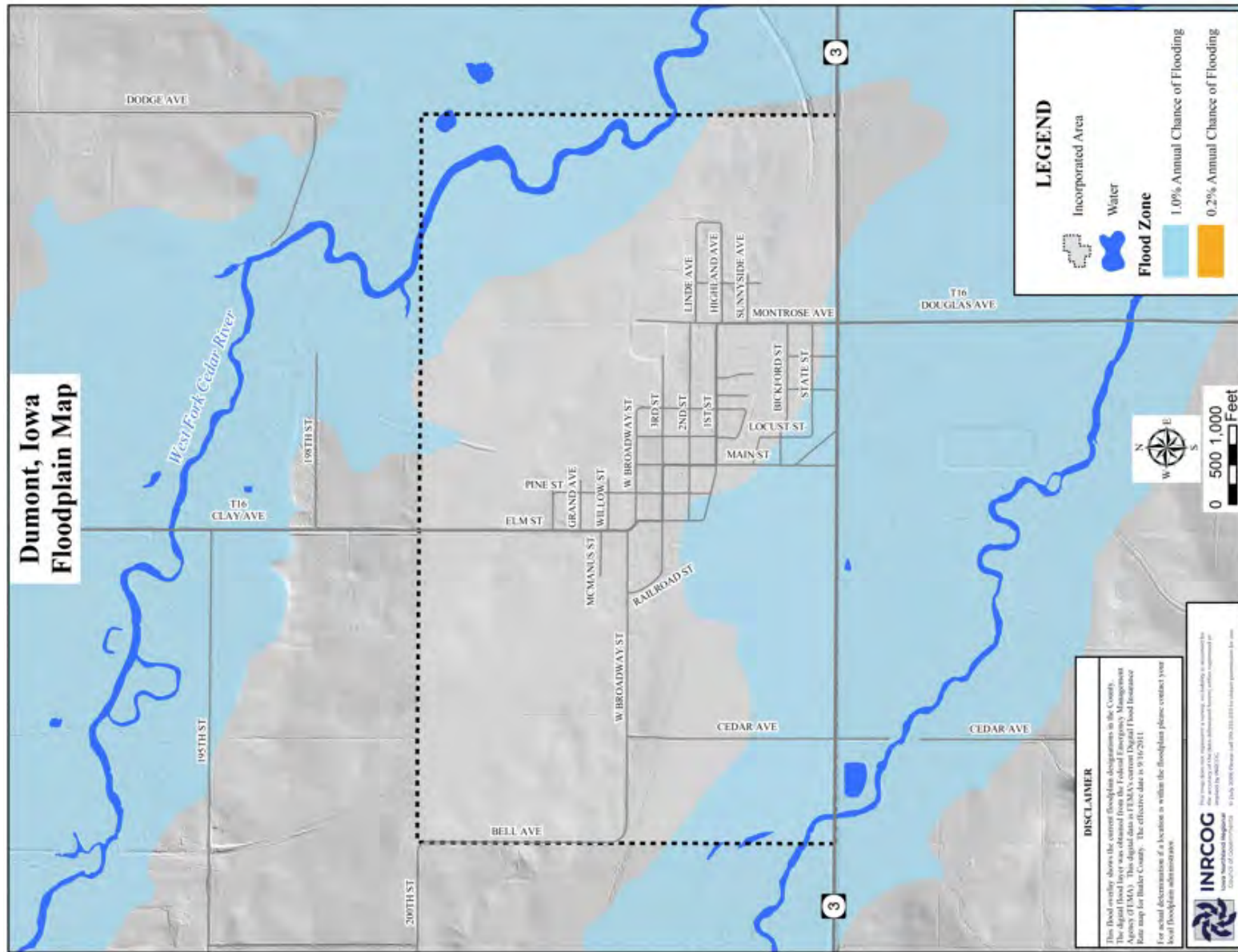
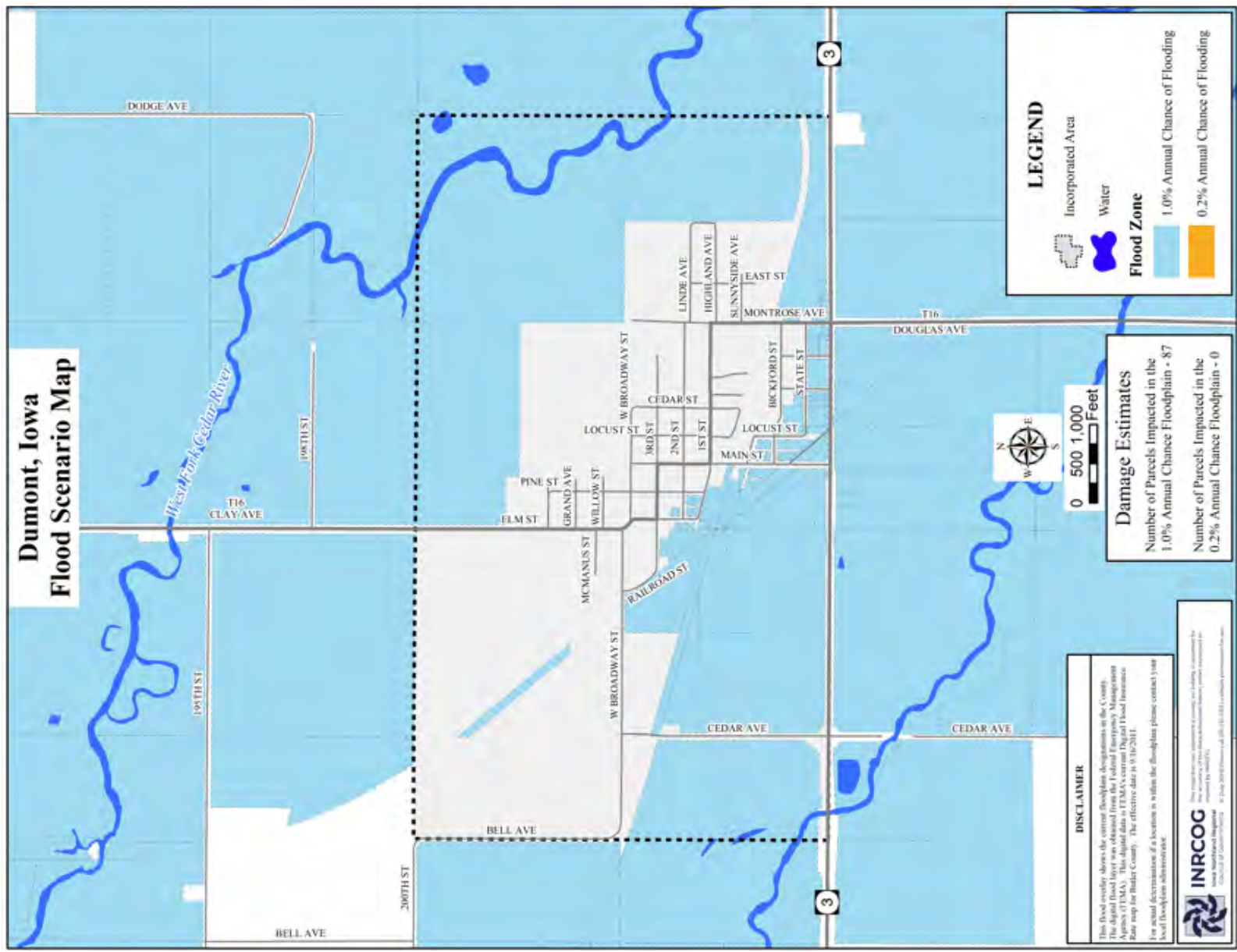


Figure 5: Flood Scenario Map



## Future Development

Recent updates in Title 44 CFR §201.6 (c) (2) (i) require this risk assessment include a section with future conditions on the type, location, and range of anticipated intensities of natural hazards.

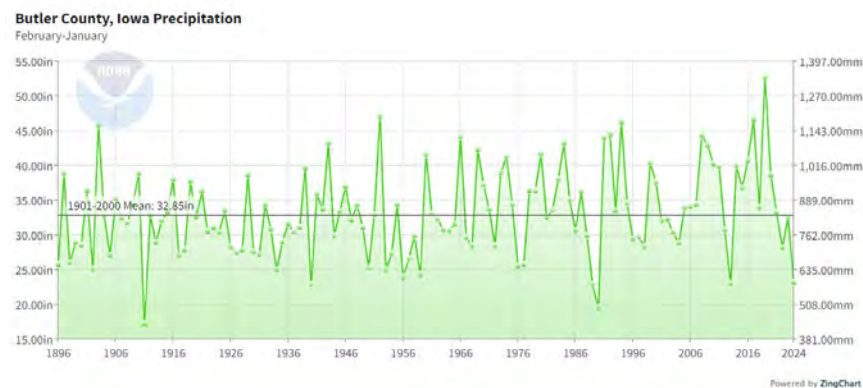
Long term trends of climate patterns for the region were summarized in the Fourth National Climate Assessment Midwest Section.<sup>1</sup> The National Climate Report is mandated to be updated every 4 years and deliver results to Congress and President on the effects to agriculture, energy productions, land use, transportation, and human health.

Yearly precipitation levels and annual average temperatures offer insights into future conditions of our climate system.

### Annual Precipitation Levels in Butler County

Taking the monthly precipitation records from January to December between 1895 and 2024 is shown in Figure 6. The values hover between 20 - 50 inches of precipitation levels recorded. The average precipitation level for the year is plotted and a linear trend of those values is shown in Figure 6. The trend shows a growing level of annual precipitation on average of 32.80 inches. Based on this historical trend, precipitation is likely to continue to increase in the coming years.

**Figure 6: Historical Precipitation Data and Trend for Butler County, Iowa<sup>2</sup>**



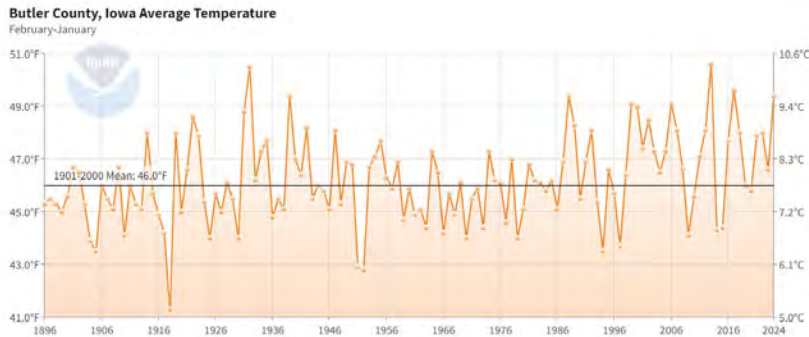
### Average Annual Temperatures in Butler County

The monthly average temperature is plotted over a 12-month period from 1885 to 2023 in Figure 7. The annual average temperature is also shown with a linear trend in Figure 7. This trend shows the average temperature in Butler County increasing at a rate of +0.1° F every 10 years.

<sup>1</sup> USGCRP, 2018: Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, 1515 pp. doi: 10.7930/NCA4.2018.

<sup>2</sup> NOAA National Centers for Environmental information, Climate at a Glance: County Time Series, published February 2024, retrieved on April 15, 2024 from <https://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/county/time-series>

**Figure 7: Historical Temperature Data and Trend for Butler County, Iowa<sup>2</sup>**



### **Climate Patterns from Increasing Precipitation and Higher Temperatures**

#### Drought

The relationship between increasing precipitation, temperature, and drought is complex, and often counterintuitive at first thinking about it. While increasing precipitation may seem like it would mitigate drought conditions, higher temperatures can exacerbate the situation in several ways:

1. **Evapotranspiration:** Higher temperatures lead to increased evaporation rates from soil, bodies of water, and plants. This means that even if there is more precipitation, it may quickly evaporate before it can effectively replenish soil moisture or water sources.
2. **Changes in precipitation patterns:** Increasing temperatures can alter precipitation patterns, leading to more intense rainfall events but also longer

periods of drought between these events. This pattern can result in rapid runoff and soil erosion during heavy rain, followed by extended dry periods that contribute to drought conditions.

Overall, while increasing precipitation may provide temporary relief from drought, the combined effects of rising temperatures can outweigh this benefit, leading to more frequent and severe drought events in certain regions.

#### Pest Infestation

With more humidity, the daily minimum temperature may increase across all seasons. Warming winters can increase the survival and reproduction of existing insect pests which allow new insect pests and crop pathogens to move into the Midwest region.

#### Extreme Heat Domes

A heat dome is a weather phenomenon characterized by a high-pressure system that traps hot air beneath it, leading to prolonged periods of extremely high temperatures and often causing heatwaves. Extreme heat events during the summers may occur more frequently in the Midwest.

The human impacts of extreme heat affect socially and economically vulnerable populations the most. The higher costs of energy during heat waves disproportionately impact cost-burdened households. Heat related illness may be more severe among infants, elderly populations, and those with chronic health conditions.



## 2025 Dumont Hazard Mitigation Plan

### Projected Trends of Natural Hazards in Butler County

- Prologued drought may occur as the atmosphere holds more moisture (even pulling moisture from plants) as the temperature increases. Longer periods between weather events mean there are drier and longer periods in between these events.
- Floods (flash or major types) will increase in intensity as the atmosphere holds more moisture to drive stronger storms and drop heavier rainfall over a shorter period during an event.
- Extreme heat may occur more frequently. Human health impacts are higher among socially vulnerable populations (the elderly, infants, those with chronic health issues, cost burdened households).
- Agricultural pests and pathogens may increase in growing plants and stored grain. Warming temperatures in the spring and summer have led to rising humidity. Higher dew and moisture conditions may increase the presence of these pests or crop diseases.

### **National Flood Insurance Program**

The City of Dumont participates in the National Flood Insurance Program. The current effective FIRM map date is December 17, 2020. Butler County participates in the NFIP, and its effective map date is November 6, 2000.

FEMA defines a repetitive loss property as an insurable building that has experienced two losses in a 10-year period in which each loss is \$1,000 or more. There are 2 reported repetitive loss properties. The City has 6 total policies with a total net dollars value of \$62,566.27.

### Hazard Risk Assessment

The top three hazards from the risk assessment are:

1. Flash Flood
2. Pandemic Human Disease
3. Transportation Incident



### Methodology

This risk assessment identifies how people, property, and structures would be harmed or damaged by one of the listed hazard events. Iowa Homeland Security and Emergency Management Department (Iowa H.E.S.M.D.) provided the hazard risk score formula for determining the level of risk used in this analysis.

### Factors of Hazard Risk

Risks to a hazard may differ across geographical locations or even differ based on certain times of year. For example, tornado season in Iowa is usually in May and tornados have the highest risk during this time due to change in weather patterns from the western and central Gulf of Mexico causing higher chances of extreme weather.

For this analysis, four hazard risk factors are rated on a scale between 1 and 4 by committee participants after reviewing

profiles of each hazard with the planning coordinator. Information was shared with the committee which described the hazard, historical occurrences, impact, duration, and warning time. Participants used this information to strengthen their understanding to rate each hazard factor.

### Hazard Risk Score Formula

$$\begin{aligned}
 &[\text{Probability}] \times 45\% + [\text{Magnitude or Severity}] \times 30\% \\
 &+ [\text{Warning Time}] \times 15\% + [\text{Duration}] \times 10\% \\
 &= \text{Final Hazard Assessment}
 \end{aligned}$$

Source: Provided by Iowa H.S.E.M.D.

Hazard scores were collected during the 2<sup>nd</sup> county committee meeting. INRCOG planners calculated the hazard risk score for each hazard based on the formula in this section. Results for Dumont are located below.

Score Value vs. Hazard Risk Level	Description of hazard with this rating
Scores with a value closer to 1: <u>Low risk hazard</u>	Hazard is not likely to affect people or property because the likelihood is minimal.
Scores with a value closer to 4: <u>High risk hazard</u>	The hazard has historically occurred and may have significant impacts to people and property.
Scores with a value Of 0 <u>No Presumed Risk</u>	The hazard is extremely unlikely to impact the community, thus, the community has not taken it into consideration for mitigation actions.

## 2025 Dumont Hazard Mitigation Plan

### Probability

The probability score reflects the likelihood of the hazard occurring in the near future. Historical data of the hazard event occurring in Butler County or Iowa informed the likelihood of future occurrence.

Probability Score Definitions		
Score	Description	
1	Unlikely	<i>Less than 10% probability in any given year (up to 1 in 10 chance of occurring), a history of events is less than 10% likely or the event is unlikely but there is a possibility of its occurrence.</i>
2	Occasional	<i>Between 10% and 20% probability in any given year (up to 1 in 5 chance of occurring), history of events is greater than 10% but less than 20% or the event could possibly occur.</i>
3	Likely	<i>Between 20% and 33% probability in any given year (up to 1 in 3 chance of occurring), history of events if greater than 20% but less than 33% or the event is likely to occur.</i>
4	Highly Likely	<i>More than 33% probability in any given year (event has up to a 1 in 1 chance of occurring), history of events is greater than 33% likely or the event is highly likely to occur.</i>

### Magnitude or Severity

The magnitude or severity of the hazard event is measured by the level of impact on the human environment. Property damage is assessed by the whole planning area.

Magnitude or Severity Score Definitions		
Score	Description	
1	Negligible	Less than 10% of property severely damaged, the shutdown of facilities and services for less than 24 hours, and/or injuries/illnesses treatable with first aid
2	Limited	10% to 25% of property severely damaged, shutdown of facilities and service for more than a week, and/or injuries/illnesses that do not result in permanent disability.
3	Critical	25% to 50% of property severely damaged, shutdown of facilities and services for at least two weeks, and/or injuries/illnesses that result in permanent disability.
4	Catastrophic	More than 50% of property severely damaged, shutdown of facilities and services for more than 30 days, and/or multiple deaths.



## 2025 Dumont Hazard Mitigation Plan

### Warning Time

This should be taken as an anticipated warning time.

The warning time score assesses the ability to warn a population before the hazard occurs. The values of the score range from 1 (at least 24 hours) to 4 (minimal or no warning time).

For many of the climate hazards, there is a considerable amount of warning time as opposed to the human-caused hazards (transportation and hazardous materials incidents) that occur instantaneously or without any significant warning time.

Warning Time Score Definitions		
Score	Description	
1	Forecasted	More than 24 hours warning time.
2	Likely	12 to 24 hours warning time.
3	High Chance	6 to 12 hours warning time
4	Imminent	Minimal or no warning time (up to 6 hours warning)

### Duration

The duration is the time of a typical or expected hazard event to occur. For an earthquake or traffic accident that is a score of 1. For infrastructure failure, it is likely a 4.

Table 10 displays rated risk scores for each associated hazard. This assessment was completed by city representatives based on hazard profiles prepared for the planning committee.

Duration Score Definitions	
Score	Description
1	Less than 6 hours
2	Less than 1 day
3	Less than 1 week
4	More than 1 week

<b>Table 10: Hazard Risk Assessment</b>					
<b>Hazards</b>	<b>Probability</b>	<b>Magnitude</b>	<b>Warning Time</b>	<b>Duration</b>	<b>Score</b>
Flash Flood	4	2	4	3	3.3
Pandemic Human Disease	3	3	1	4	2.8
Transportation Incident	3	2	4	1	2.65
Severe Winter Storm	4	1	2	2	2.6
Animal/Crop/Plant Disease	3	2	1	4	2.5
Drought	3	2	1	4	2.5
Thunderstorm/Lightning/Hail	3	1	3	2	2.3
River Flood	3	1	2	3	2.25
Extreme Heat	3	1	1	3	2.1
Tornado/Windstorm	2	1	4	2	2
Infrastructure Failure	1	2	4	3	1.95
Grass/Wild Land Fire	2	1	4	1	1.9
Sinkholes	1	1	4	4	1.75
Hazardous Materials	1	1	4	2	1.55
Expansive Soils	1	1	1	1	1
Landslides*	0	0	0	0	0
Terrorism *	0	0	0	0	0
Radiological Incident*	0	0	0	0	0
Levee/Dam Failure*	0	0	0	0	0
Earthquake*	0	0	0	0	0

Source: Completed by City Representative. Calculated score completed by INRCOG.

\* The hazard is extremely unlikely to impact the community, thus, the community has not taken it into consideration for mitigation actions.

## **Hazard Mitigation Goals**

### **in Dumont, Iowa**

The following list of goals was developed by planning committee participants from the associated jurisdiction. Goals 1 through 7 were developed in the previous 2020 Butler County Multi-Jurisdictional Hazard Mitigation Plan. The planning committee participants chose to adopt the same goals and add additional goals after review.

- Goal #1** Minimize to the greatest possible extent the number of injuries and/or loss of life associated with all identified hazards.
- Goal #2** Reduce or eliminate property damage due to the occurrence of disasters.
- Goal #3** Improve response operations in the event of a disaster.
- Goal #4** Return the community to either a pre-disaster or improved conditions in a timely manner in the wake of a disaster.
- Goal #5** Develop strategies that can be used to reduce the community's overall risk to the negative effects of natural, technological, and man-made disasters.
- Goal #6** Reconvene the planning committee annually to review the plan document, check for compliance with the plan goals, and track progress in achieving the mitigation strategies.
- Goal #7** Maintain the Countywide Multi-Jurisdictional format for future updates.

### **Previous Mitigation Activities by Type**

Mitigation actions and activities in this Plan will be organized according to these 5 categories: Emergency Services, Education and Outreach Projects, Natural Resource Protection or Natural Based Solutions, Structural Projects, or Local Plans and Regulations.

### **Emergency Services in Dumont**

#### Butler County Emergency Management Agency

Dumont works with the Butler County Emergency Management Coordinator, based out of the City of Allison, on various safety and emergency events. The Emergency Management Coordinator works in conjunction with local fire, rescue, police, and government officials to draft and implement workable emergency action plans in the community. The Butler County Emergency Management Coordinator is Chris Showalter.

#### Law Enforcement

Dumont contracts for law enforcement services with the Butler County Sheriff's Department. The Department provides routine services and support for the city. They are located at 428 Sixth Street in Allison.

#### Fire Protection and EMS Services

Fire protection for the City of Dumont is provided by the Dumont Volunteer Fire Department. The station is located at 630 First Street in Dumont. There are 17 volunteer fire fighters that serve in the department currently. Each of the members is HAZMAT certified Firefighter 1 trained. There are

several members that have Firefighter 2 training, and others with driver/operator training. Dispatch is provided via a paging system called I Am Responding app that is accessible through a phone app.

The Dumont Fire Department maintains 28E agreements with surrounding communities to provide additional support when needed and required.

#### EMS Services

Butler County EMS represents all 8 of the EMS service in the County. Butler County Board of Supervisors deemed EMS an Essential Service for the County according to Iowa Code Chapter 422D and recently hired an EMS Coordinator to provide coverage and support for EMS services within the county.

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### Medical Facilities

The City of Dumont does not have any medical clinics located directly within its community.

The Waverly Health Center in Waverly is located approximately 30 miles east and the Franklin General Hospital in Hampton is located approximately 12 miles west.

### HAZMAT Response Teams

Dumont contracts with Northeast Iowa Response Group for response to hazardous material spills. The Northeast Iowa Response Group is a division of Waterloo Fire Rescue as is the Hazardous Materials Regional Training Center. The Training Center provides training to fire departments and companies from around the state and country. Not only is this a training center, but it also serves as a hazardous materials quick response unit to Black Hawk County, surrounding counties, and many municipalities in a ten-county region. The Unit provides local fire departments with hazardous materials emergency procedures thus reducing additional contamination. An evacuation plan is also in place in conjunction with the activities of the local department. Contact information for the facility is as follows: Hazardous Materials Regional Training Center, 1925 Newell Street, Waterloo, Iowa 50707, Phone: (319) 291-4275, Toll Free: (800) 291-4682, Fax: (319) 291-4285

The jurisdiction also partners with the Northeast Iowa Response Group for assistance in responding to any methamphetamine labs located in the city limits. The

Response Group assists the Police Departments in the containment of the site and disposal of hazardous chemicals.

### Warning Systems in Dumont

#### 1. Tornado Sirens

Dumont has an existing tornado siren located at the Dumont Area Emergency Center. The city is expecting to replace the siren within the next 5 to 10 years. The siren is tested monthly, from April to November, at 10AM on the third Wednesday of the month.

The activation systems of warning systems are activated and operated by a central command system operated by the Butler County Rescue Squad in Allison, IA.

#### 2) Alert Iowa Mass Communication System

Butler County has implemented the use of Alert Iowa, a mass communication notification system. The system features are controlled through the Butler County Emergency Management Agency. Residents can customize their alert settings including the type of alerts they would get.

Alert Iowa allows for emergency notifications via landline telephones, cell phones, email, text messages, and social media. This is useful for communities that may not have an operating warning siren or may not hear the sirens. The County will use its emergency notification network for all the following events: blizzards, flash flooding, severe thunderstorms, and tornadoes. There is an optional way to receive the same alert for events such as:

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excessive heat warnings, hazardous materials warnings, heavy snow warning, high wind warnings, ice storm warnings, law enforcement warnings, shelter in place warnings, sleet warnings, wind chill warnings, and winter storm warnings.

### Public Works/Street Department

The Public Works Department is located at City Hall at 625 First Street.

### **Education and Outreach Projects in Dumont**

Dumont currently has in place E911 Emergency Assistance. Other communications used by city personnel include pagers, radios, and cellular telephones. Radio, television, cellular telephones, landline telephones, newspapers, warning sirens, and NOAA Radio Service are available to the public at large. The city utilizes a social media account to keep its citizens, and other interested parties, aware of local and government affairs: [www.facebook.com/p/City-of-Dumont-Iowa-100069154391544/](https://www.facebook.com/p/City-of-Dumont-Iowa-100069154391544/).

The city also posts notices and information on the City Hall window and an electric sign on Main Street. The city also partners with the Hampton Chronicle newspaper, radio station KLMJ, and a local cable station for community updates.

### **Natural Resource Protection in Dumont**

Dumont does not have any natural resources protection actions.

### **Structural Projects in Dumont**

Since the last Hazard Mitigation Plan, the city executed a project to raise Cedar Ave for flood management. The city currently does not have any major structural projects taking place but has begun replacing some hydrants and watermain infrastructure.

### Local Plans and Regulations in Dumont

Dumont completed a local plan and regulation assessment. The results are shown in the following table.

Table 11: Local Regulatory Capability Assessment	
Community	City of Dumont
Previous HMP Participant?	Yes
Comprehensive Plan?	No
Building Code?	Yes
Zoning Ordinance? RR=restricted residential	RR
Subdivision Regulations?	No
Floodplain Management Ordinance?	Yes
Tree-Trimming Ordinance?	Yes
Storm Water Ordinance?	Yes
Snow Removal Ordinance?	Yes

Timeframe	Description
Immediate	1 - 6 months
Short Term	1-3 years
Mid-Term	3-5 Years
Long-Term	More than 5 Years

Cost	Estimated Cost Range
Minimal	Less than \$10,000
Low	\$10K to \$99K
Moderate	\$100K to \$299K
High	Greater than \$300K

### How to Use the Implementation Guide in this Plan

Notes about the tasks (listed as line items) on the tables on the following pages.

- Each task (line item) stands on its own so it can be completed whenever possible.
- Each action item is not limited to the details presented below and may change based on future conditions.
- The tasks were categorized based on mitigation type. The mitigation types are not shown in any order (no priority over the other).

This implementation strategy is presented to help with the general understanding of how hazard mitigation may feed into the City’s existing or future priorities.

### Priority Level

The priority level was informed through discussions among planning committee members who considered potential benefits of implementing the activity, some hurdles that the city may face in implementing the action step, and the drawbacks of implementation. *Committee representatives considered a cost-benefit approach.*

### Timeframe & Estimated Costs

Cost estimates are based on the associated costs of additional staffing that may or may not be needed, time for planning/meetings/coordinating, and cost of the proposed action/program/ project. The time frame to complete the column is based on four designations (see table to the left).



**Strategic Implementation Guide for Hazard Mitigation Activities**

<b>Table 12: 'Education and Awareness' Type Mitigation Activities</b>						
Description: These types of actions keep residents informed about potential natural disasters.						
<b>Priority</b>	<b>Tasks</b>	<b>Hazard(s)</b>	<b>Primary Agency Responsible for Implementation</b>	<b>Time Frame to Complete</b>	<b>Estimated Cost (s)</b>	<b>Funding Source</b>
Medium	Develop a newsletter to make residents aware of safety issues and procedures.	All	City Clerk, City Council; Butler Emergency Management	Short-Term	Minimal	City General Fund
Medium	Partner with Butler County Emergency Management to continue providing residents with public awareness and education programs.	All	City Clerk, City Council; Butler Emergency Management	Short-Term	Minimal	City General Fund

<b>Table 13: 'Emergency Services' Type Mitigation Activities</b>						
Description: Actions that protect people and property during and immediately after a disaster or hazard event.						
<i>Priority</i>	<i>Tasks</i>	<i>Hazard(s)</i>	<i>Primary Agency Responsible for Implementation</i>	<i>Time Frame to Complete</i>	<i>Estimated Cost (s)</i>	<i>Funding Source</i>
Medium	Acquire generators for critical facilities, library and churches, to provide more safe locations for residents during an emergency.	All	City Clerk, City Council, Facility Boards	Mid-Term	Minimal	Hazard Mitigation Grant
Medium	Acquire another fire truck to improve efficiency and effectiveness of local fire and emergency response	Fire, Transportation Incident, Hazardous Materials	City Clerk, City Council, Fire Department	Long-Term	Moderate	Assistance to Firefighters Grant
Medium	Continue to incorporate technological advancements within our critical service and emergency response vehicles to better serve community needs.	All	City Clerk, City council, Fire Department	Long-Term	Moderate	City General Fund; Hazard Mitigation Grant

<b>Table 14: Structure and Infrastructure Project Type Mitigation Activities</b>						
Description: Actions that either modify existing buildings or structures to protect them from a hazard, or removal from the hazard area.						
<b>Priority</b>	<b>Action/Activity</b>	<b>Hazard(s) Addressed by Action</b>	<b>Primary Agency Responsible for Implementation</b>	<b>Time Frame to Complete Action</b>	<b>Estimated Cost(s) to Implement</b>	<b>Funding Source</b>
High	Partner with Butler County to perform a replacement project to change the culvert type on Main Street.	Flood, transportation Incident, Severe Winter Storm	City Clerk, City Council, Butler County	Short-Term	High	Hazard Mitigation Grant Program; City Bonds
Medium	Replace remaining hydrants and water mains to maintain safe and efficient water sources for community and emergency response.	Sever Winter Storm, Drought, Extreme Heat, Infrastructure Failure	City Clerk, City Council, Public Works	Long-Term	High	City Bonds; City General Fund
Low	Bury overhead power lines to prevent disturbances in service from severe weather emergencies.	Sever Winter Storm, Transportation Incident, Thunderstorm, Tornado/Windstorm	City Council; Public Works; Local Utility Providers	Long-term	High	Hazard Mitigation Grant

<b>Table 15: Natural System Protection and Nature-Based Mitigation Type</b>						
Description: Actions that minimize damage and losses by preserving or restoring the functions of natural systems. This type of action can include green infrastructure and low impact development, nature-based solutions						
<b>Priority</b>	<b>Action/Activity</b>	<b>Hazard(s) Addressed by Action</b>	<b>Primary Agency Responsible for Implementation</b>	<b>Time Frame to Complete</b>	<b>Estimated Cost (s)</b>	<b>Funding Source</b>
Medium	Purchase new controls and improve testing and inspection procedures to secure the city's water sources.	Drought, Flood, Extreme Heat, Sinkholes	City Council, Public Works, Fire Department	Mid-Term	Moderate	City General Fund
Medium	Establish a community-wide household hazardous waste disposal site or event to promote recycling of household electronics and hazardous materials.	All	City Clerk, City Council, Public Works, Sanitation	Mid-Term	Minimal	County Solid Waste Management Fund

<b>Table 16: Local Plans and Regulations Mitigation Activities</b>						
Description: Actions by administrative or regulatory processes which direct how land and buildings are developed and built. These actions include regulations by public entities to reduce hazard losses.						
<b>Priority</b>	<b>Action/Activity</b>	<b>Hazard(s) Addressed by Action</b>	<b>Primary Agency Responsible for Implementation</b>	<b>Time Frame to Complete Action</b>	<b>Estimated Cost(s) to Implement</b>	<b>Funding Source</b>
Medium	Install lights and cameras at critical facilities to improve security and maintenance.	Infrastructure Failure	City Clerk, City Council, Public Works	Short-Term	Minimal	City General Fund
Medium	Maintain a bulk supply of bottled water and nonperishable food items at critical facilities and safety locations.	All	Public Works	Short-Term	Moderate	City General Fund
Medium	Implement a better Source Water Protection Plan in collaboration with Iowa DNR to protect natural water sources.	Flash Flood, River Flood, Drought, Hazardous Materials	City Council; Public Works; Iowa DNR	Short-Term	Minimal	State Water Protection Grant
Low	Develop a plan to purchase, elevate, or remove structures within the 100-year floodplain.	Flash Flood, River Flood	City Council; Public Works	Long-Term	High	Hazard Mitigation Grant Program