

# Special Jurisdictions Appendix

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## School District Profile

# **Adel DeSoto Minburn School District**

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table ADM.1: Adel DeSoto Minburn School District Local Planning Team**

Name	Title	Jurisdiction
<b>Greg Dufoe</b>	Superintendent	Adel DeSoto Minburn Schools
<b>Luke Asche</b>	Director of Buildings and Grounds	Adel DeSoto Minburn Schools

## Location and Services

Adel DeSoto Minburn (ADM) School District is located in Dallas County, approximately 20 miles west of Des Moines. The district's mission, as expressed on its website, states "We are committed to engaging ALL students in a challenging and supportive environment that ensures ALL students learn at high levels." The district is comprised of five schools: Adel DeSoto Minburn High School, Adel DeSoto Minburn Middle School, DeSoto Intermediate, Meadow View Elementary, and Adel Elementary. The district office is located in Adel. English is the predominant language in the district, but Arabic, Spanish, Central Khmer, Russian, and Vietnamese are also spoken. At this time, emergency instructions/notices are not available in all languages spoken by students.

## Demographics

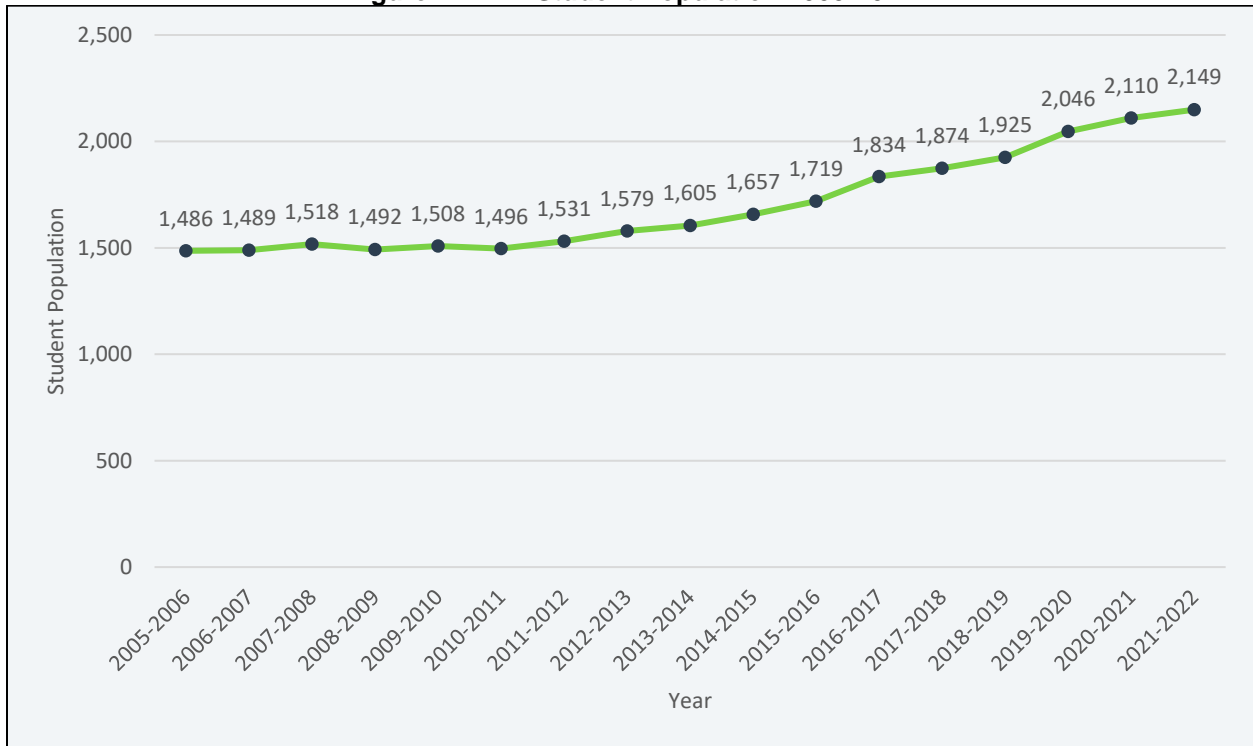
The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has steadily increased since 2010. The local planning team noted an anticipated increase of 300 students entering the district in the next five years due to residential growth. This anticipated increase is based on an enrollment analysis done by RSP and Associates in June 2022. There are 2,149 students enrolled in the district.<sup>1</sup>

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<sup>1</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

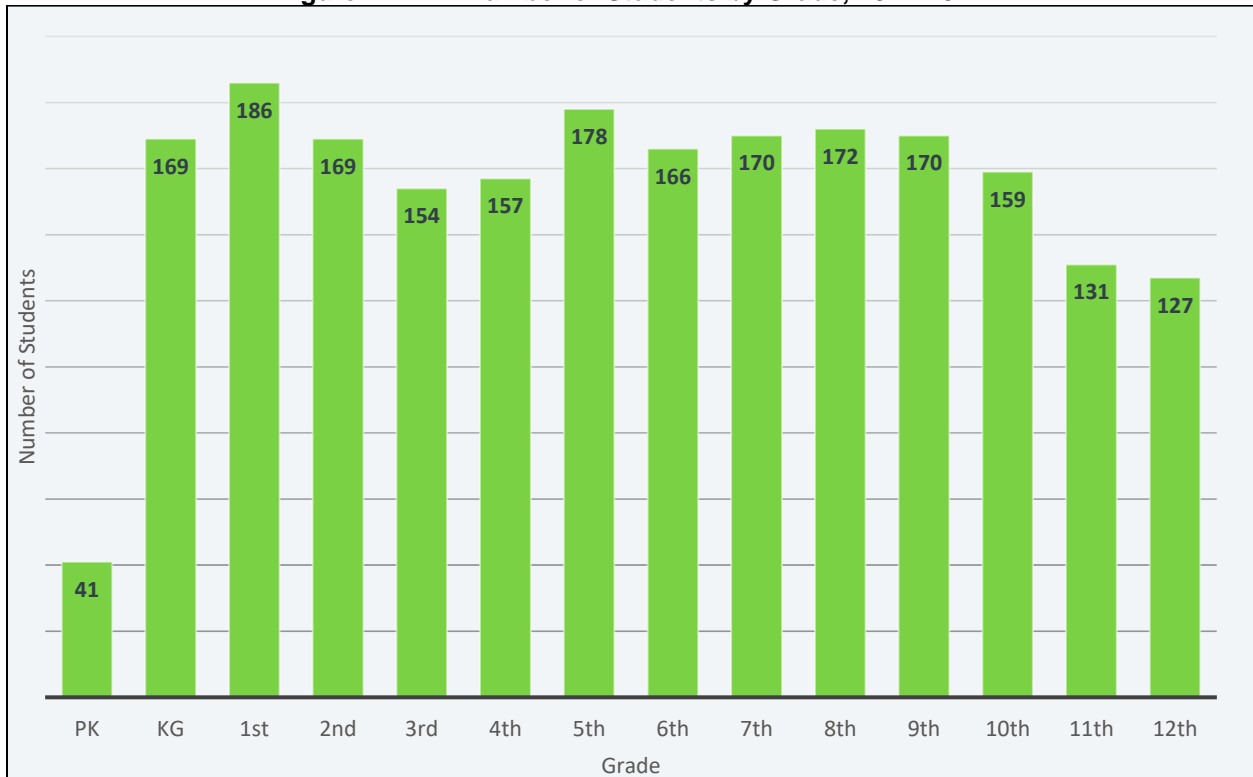
## Section Seven: Adel DeSoto Minburn School District Profile

**Figure ADM.1: Student Population 2005-2022**



Source: Iowa Department of Education

**Figure ADM.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

Figure ADM.3: Adel DeSoto Minburn School District

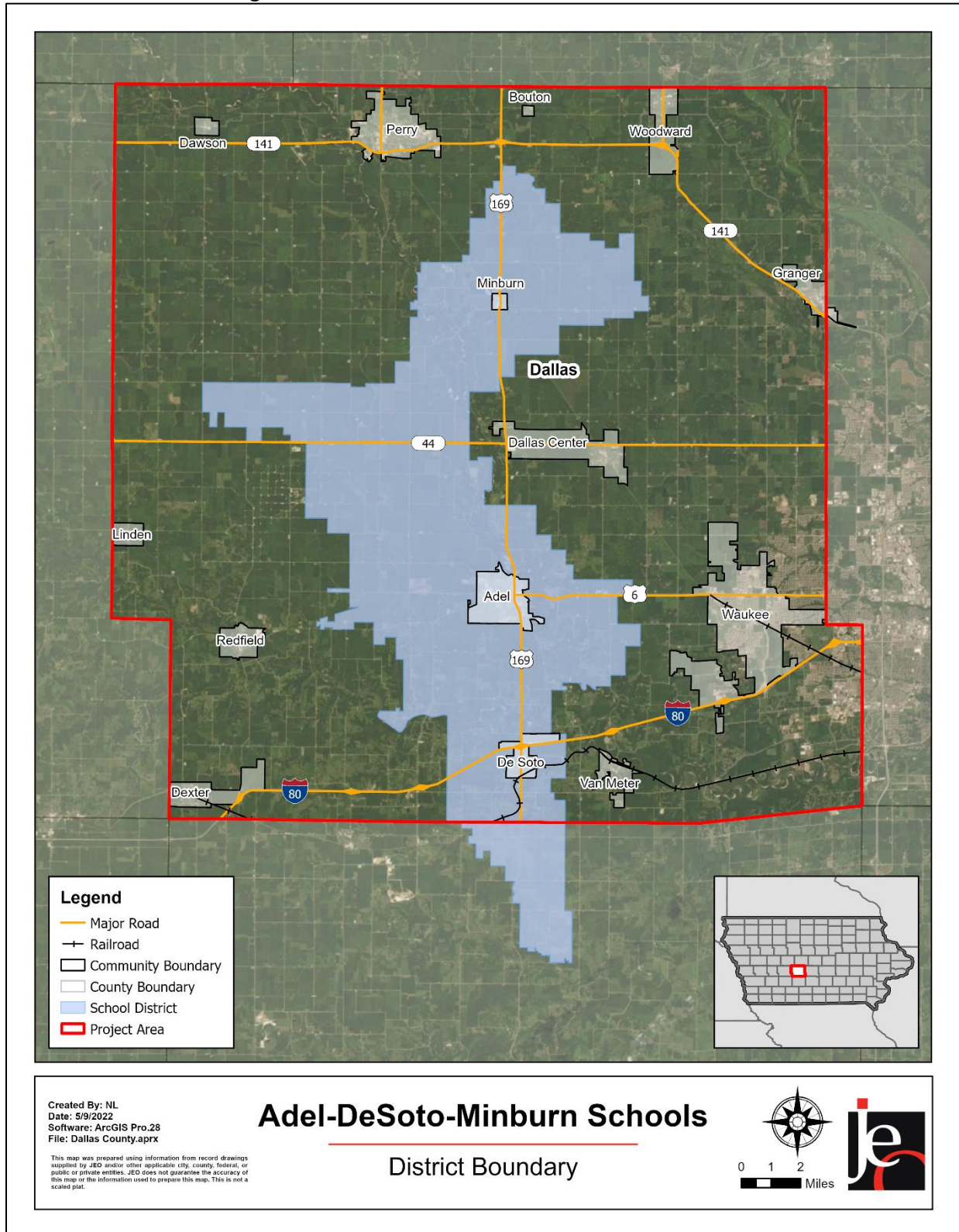


Figure ADM.2 indicates that the largest number of students are in 1st, 5<sup>th</sup>, and 8th grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 18.6% of students receive either free or reduced priced meals at school. This is lower than the state average of 40.7%. Additionally, 9.3% of students are in the Special Education Program and 0.9% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table ADM.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
Free/Reduced Priced Meals	18.6%	40.7%
Special Education Students	9.3%	13.2%
English Language Learners (ESL)	0.9%	6.6%

Source: Iowa Department of Education<sup>2</sup>

## Administration and Staff

The school district has 300 district employees, including a superintendent, five principals, three assistant principals, and supportive staff. The school board is made up of a five-member panel. The district also has a number of additional departments and staff that may be available to implement hazard mitigation initiatives. The district annually updates an Emergency Operations Plan and reviews it with staff and students over the course of each year.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Emergency procedures are practiced throughout the year using drills as required by the state of Iowa. The district notifies parents and staff of emergency events through a messaging system of text messages, emails, and phone calls. Local police and fire departments are part of the development team for the district's Emergency Operations Plan and the local planning team notes they expect an increase in collaboration in future years.

**Table ADM.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	No
	Continuity of Operations Plan	Yes
	Crisis Response Plan	Yes
	Strategic Plan	No
	Grant Manager	No
	Mutual Aid Agreement	No
	Other (if any)	
<b>Fiscal Capability</b>	Applied for grants in the past	Yes
	Awarded grants in the past	Yes

<sup>2</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

	Authority to levy taxes for specific purposes such as mitigation projects	Yes
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	Yes
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	Yes
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	
<b>Drills</b>	Fire	4/year
	Tornado	4/year
	Intruder	3/year
	Bus evacuation	
	Evacuation	
	Other (if any)	

**Table ADM.4: Overall Capability**

<b>Overall Capability</b>	<b>Limited/Moderate/High</b>
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Moderate
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Moderate

## Plan Integration

### Grants and Funding

According to the local planning team, district funds are sufficient to both pursue new capital projects and to maintain facilities and systems. ADM is undergoing a full facility master planning process in 2022-2023 that will include a ten-year plan for maintenance needs and future capital projects. A large portion of funds from a debt service levy is currently dedicated to the new elementary school, Meadow View, which was completed in August 2021. District funds have increased in recent years due to the levy and the district's SAVE revenue from enrollment growth. ADM has not applied for any grants in the last five years.

### Response Plans

The school district utilizes an Emergency Operations Plan (2022) to react to hazardous events. The Emergency Operations Plan discusses natural hazards, addresses shelter in place protocols, and identifies the following: scenarios that require evacuation, critical evacuation routes, sheltering locations, opportunities for mitigation following an event, and any gaps related to particular hazards. The plan is updated as needed.

## Future Development Trends

The major development to occur in the last five years was the building of Meadow View Elementary School, which was completed in August 2021. A tornado shelter was included in one wing of the new school. There are currently no plans for new construction or renovation within the district; however, a district Facility Master Planning process in 2022-2023 will result in a ten-year plan for new construction and renovation.

## Community Lifelines

### Transportation

According to the local planning team,, routes between Minburn and Adel are of most concern for the school district. To date, no major accidents have impacted schools within the district. ADM owns 20 school buses and approximately 800 students are bused to and from school each day.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are 13 chemical storage sites in Adel that contain hazardous chemicals. No sites are listed for DeSoto or Minburn. According to the planning team, response resources are sufficient, and no chemical spills have impacted the schools.

**Table ADM.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>Adel</b>	2476 Highway 6 Adel, IA 50003	No
<b>Adel Maintenance No 2</b>	516 Greene Highway Adel, IA 50003	No
<b>CenturyLink - Adel CO</b>	908 Prairie Avenue Adel, IA 50003	No
<b>CIRM-- Adel Plant</b>	301 S 6th Street Adel, IA 50003	No
<b>Dallas County Central Maintenance Facility</b>	23380 250th Street Road Adel, IA 50003	No
<b>Ferrellgas</b>	23601 Pasco Lane Adel, IA 50003	No
<b>Fuller Standard Service Inc</b>	1505 Old Portland Road Adel, IA 50003	No
<b>Inland Coatings</b>	26259 Highway 6 Adel, IA 50003	No
<b>Landus Cooperative - Panther</b>	23926 H Avenue Adel, IA 50003	No
<b>Manatts Inc--Adel</b>	103 N. 19th Street Adel, IA 50003	0.2% Floodplain
<b>MidAmerican Energy-Dallas County Service Center</b>	29817 R Ave Adel, IA 50003	No
<b>Northern Natural Gas - Redfield Production &amp; Drill</b>	2554 G Avenue Adel, IA 50003	No
<b>Glen Gary Brick &amp; Tile</b>	1831 W Main Street Adel, IA 50003	No

Source: Iowa Department of Natural Resources<sup>3</sup>

<sup>3</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022.  
<https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

## Section Seven: Adel DeSoto Minburn School District Profile

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

**Table ADM.6: School Buildings Within One Mile of Chemical Storage Sites**

<b>School Building</b>	<b>Address</b>	<b># of Storage Sites Within One Mile</b>
<b>ADM Middle School</b>	801 Nile Kinnick Dr S Adel, Iowa, 50003	4
<b>Adel Elementary</b>	1608 Grove St Adel, Iowa, 50003	6
<b>ADM High School</b>	801 Nile Kinnick Dr S Adel, Iowa, 50003	4
<b>District Administration Center (DAC)</b>	215 N 11th St Adel, Iowa, 50003	6
<b>Meadow View Elementary</b>	1300 S. 15th St Adel, IA 50003	4

### Critical Facilities

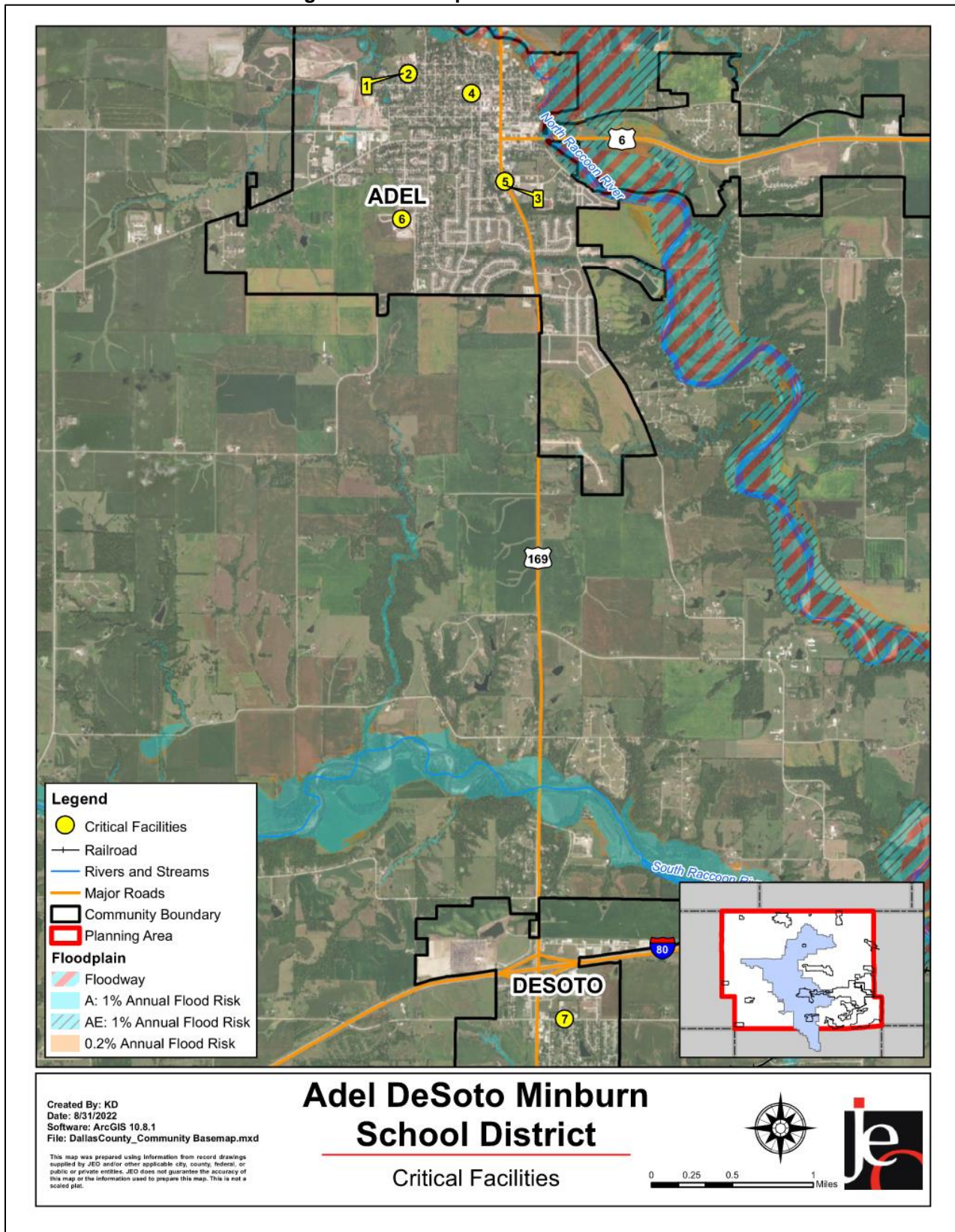
The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table ADM.7: Critical Facilities**

<b>CF #</b>	<b>Name</b>	<b>Mass Care (Y/N)</b>	<b>Generator (Y/N)</b>	<b>Floodplain (Y/N)</b>
<b>1</b>	Adel-De Soto-Minburn School District Bus Garage	N	N	N
<b>2</b>	ADM Elementary School	N	N	N
<b>3</b>	ADM Middle School	N	N	N
<b>4</b>	ADM School District Administration Building	N	N	N
<b>5</b>	ADM Senior High School	N	N	N
<b>6</b>	ADM Meadow View Elementary School	N	N	N
<b>7</b>	DeSoto Elementary School	N	N	N

Figure ADM.4: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profiles for the City of Adel, City of De Soto, and City of Minburn for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the district's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Severe Thunderstorms (Includes Hail and Lightning)**

This hazard was identified as a top hazard of concern for the school district due mainly to its frequency. According to the local planning team, the Minburn Elementary School has sustained damage to a section of their room in a storm that resulted in a full replacement in the early 2000s. To reduce the risk associated with a severe thunderstorm, the district administration center needs backup power generators.

### **Severe Winter Storms**

Frequency and transportation impacts are the main concerns for this hazard, according to the planning team. Student drivers can especially be impacted to winter weather conditions due to their lack of driving experience. The school district routinely experiences winter storms that create the need to have delayed starts, early releases, or even cancel school for a day. The local planning team reports they haven't experienced significant structural damage to critical facilities from a severe winter storm.

### **Tornado and Windstorm**

Tornado and Windstorm was identified as a top hazard of concern for the school district. The recent Derecho of 2020 resulted in power outages for several days and minor damage to buildings and grounds. The Derecho storm of August 2019 also resulted in a lengthy power outage but did not result in any structural damage. In the event of a tornado or windstorm, the Meadow View Elementary School does have safe rooms available for student and staff use.

## Mitigation Strategy

### Continued Mitigation and Strategic Actions

Mitigation Action	Educate Students on Disasters
<b>Description</b>	To educate students and increase awareness on natural disasters, how to mitigate losses, and increase safety. Continue to use fire and tornado drills regularly.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	Staff Time
<b>Funding</b>	Local Funds, Grants
<b>Timeline</b>	1-2 years
<b>Priority</b>	Medium
<b>Lead Agency</b>	Superintendent
<b>Status</b>	The district seeks to improve disaster readiness through drill and effective use of after-action reports.

Mitigation Action	Safe Rooms
<b>Description</b>	Construct saferooms to provide shelter to ADM staff and students. Ensure any new attendance centers have safe rooms/shelters.
<b>Hazard(s)</b>	Tornado and Windstorms, Severe Thunderstorms
<b>Estimated Cost</b>	\$1,000,000
<b>Funding</b>	General Obligation Bonds, Local funds, HMA
<b>Timeline</b>	2-3 years
<b>Priority</b>	Medium
<b>Lead Agency</b>	ADM Schools Superintendent
<b>Status</b>	A saferoom was constructed at the newly build Meadow View Elementary School (2021). Additional rooms needed at any new attendance centers.

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent and the Director of Buildings and Grounds. The plan will be reviewed annually, and the public will be included in the review and revision process via board meetings.

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## School District Profile

# **Dallas Center-Grimes School District**

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

Table DCG.1: Dallas Center-Grimes School District Local Planning Team

Name	Title	Jurisdiction
Scott Grimes	Superintendent	DCG Schools
Paul Nutting	Director of Buildings and Grounds	DCG Schools

## Location and Services

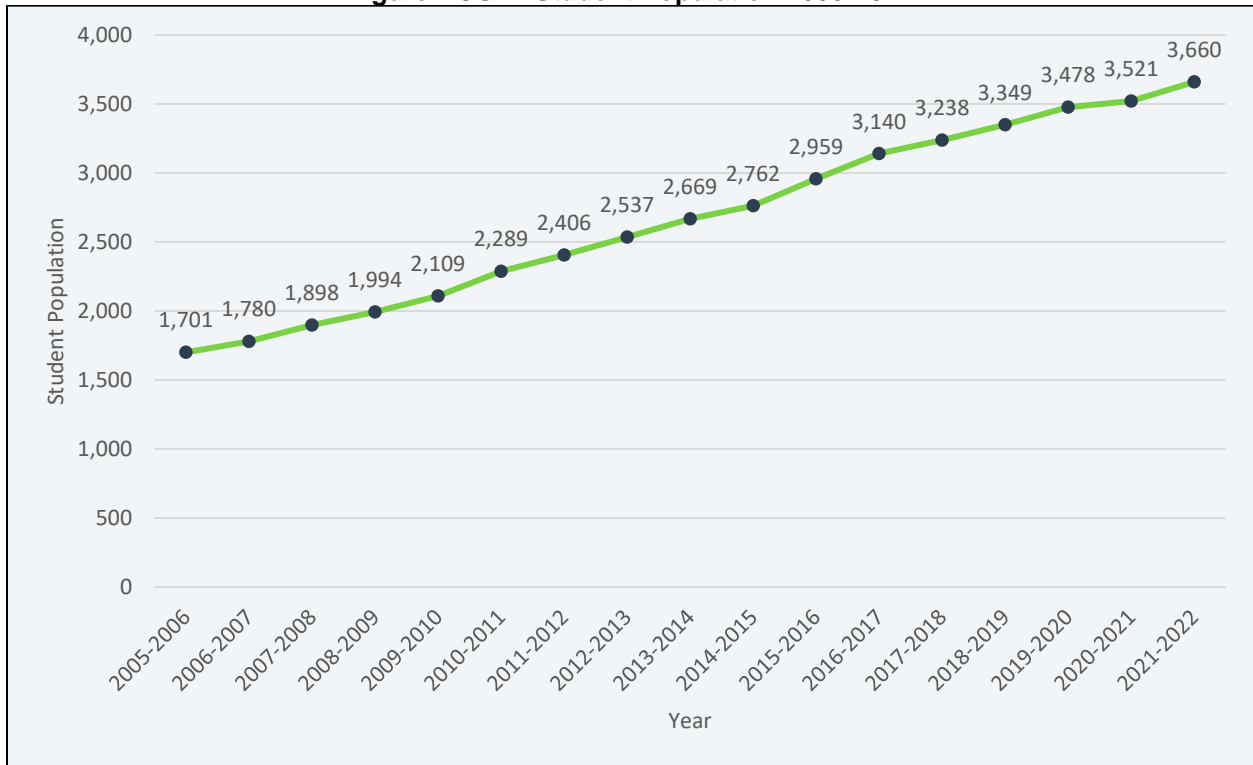
Dallas Center-Grimes (DCG) School District is located in Dallas and Polk Counties, northwest of Des Moines. The district's mission, as expressed on its website, states "Empowering All Students to Take Charge of Their Future!" The district is comprised of eight schools – two in the City of Dallas Center and six in the City of Grimes. The two in Dallas Center include: Dallas Center Elementary and DCG Middle School. The six in Grimes include: DCG High School, DCG Oak View, Heritage Elementary, South Prairie Elementary, North Ridge Elementary, and Preschool. The district office is located in Grimes. English is the predominant language in the district, but Spanish, Bosnian, and Chinese are also spoken.

## Demographics

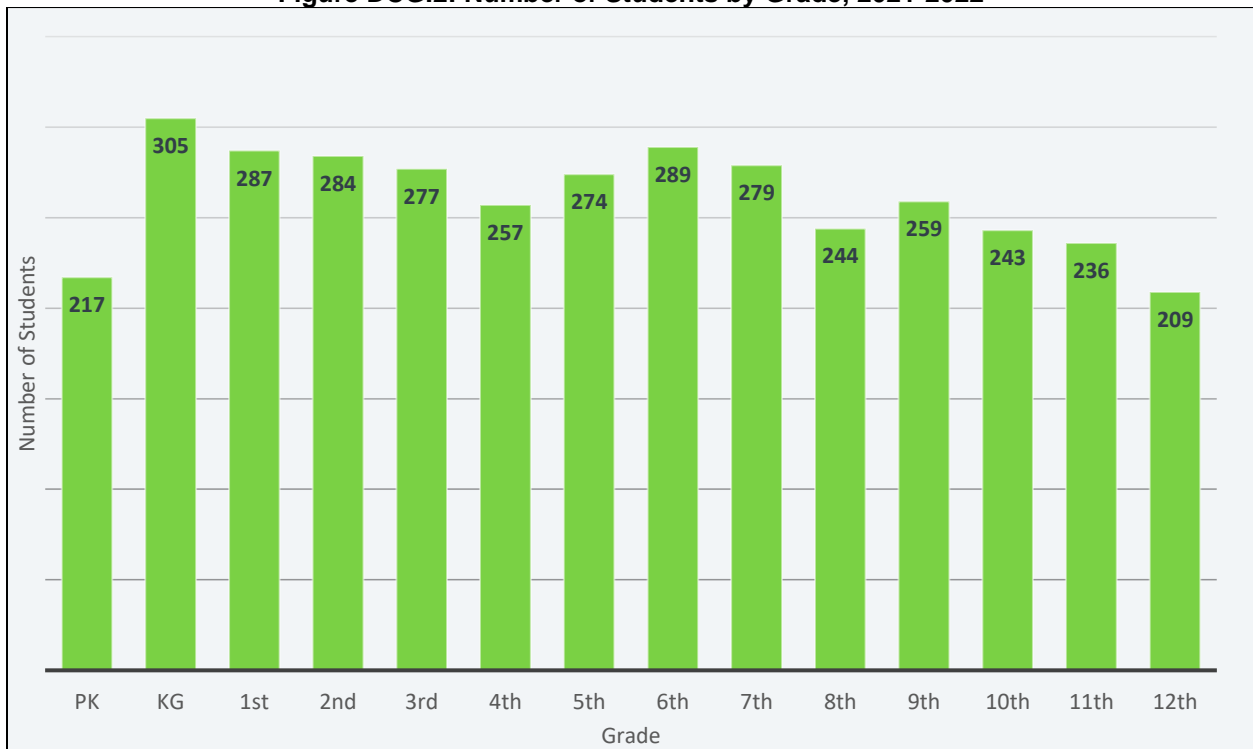
The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has steadily increased since 2005. The local planning team noted seeing a consistent increase in enrollment over the past five years due to community growth in Grimes and Dallas Center. The increase is expected to continue. There are 3,660 students enrolled in the district.<sup>4</sup>

<sup>4</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

**Figure DCG.1: Student Population 2005-2022**



**Figure DCG.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

Figure DCG.3: Dallas Center-Grimes School District

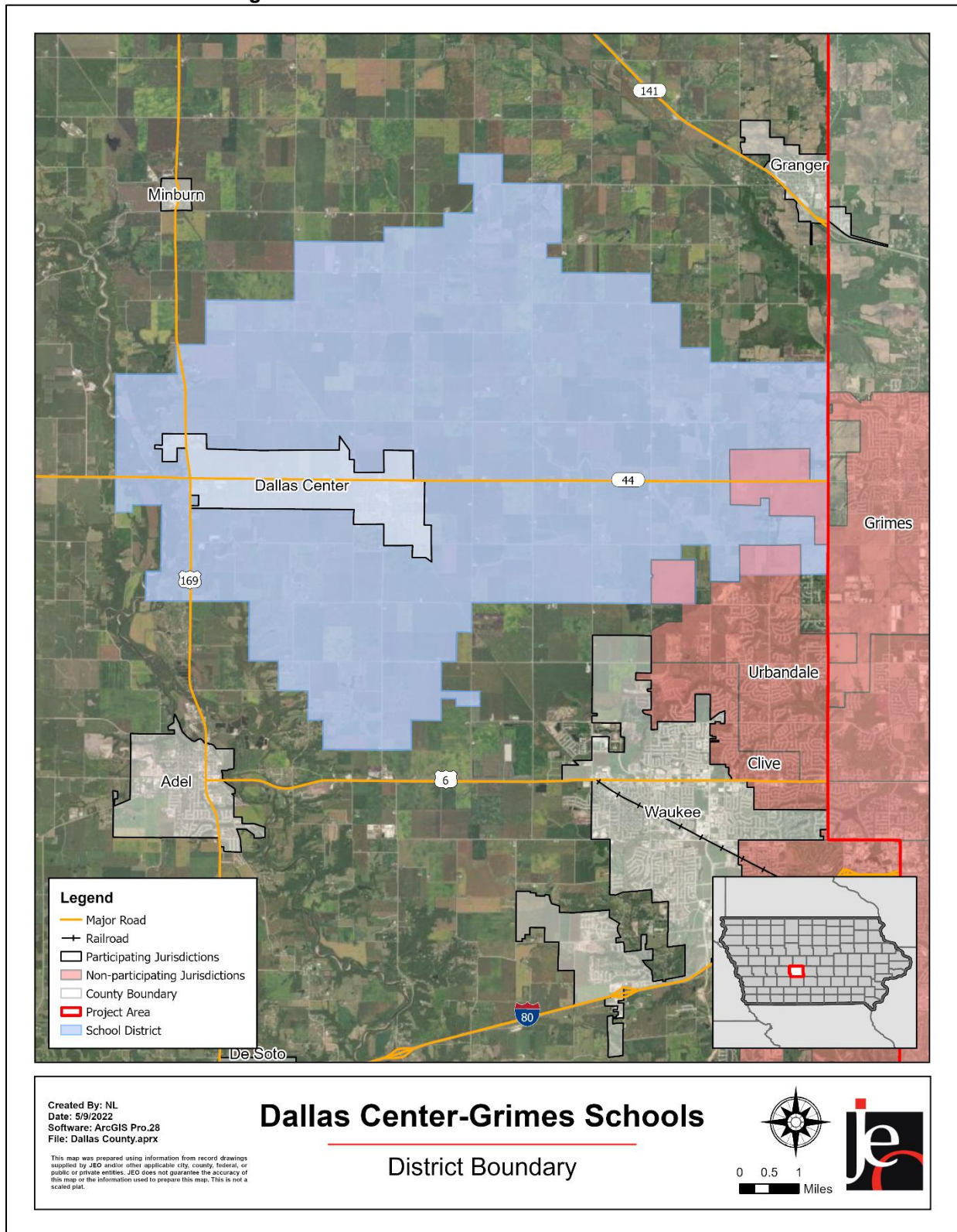


Figure DCG.2 indicates that the largest number of students are in Kindergarten, 1<sup>st</sup> grade, and 6<sup>th</sup> grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 14.2% of students receive either free or reduced priced meals at school. This is lower than the state average of 40.7%. Additionally, 9.2% of students are in the Special Education Program and 0.9% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table DCG.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	14.2%	40.7%
<b>Special Education Students</b>	9.2%	13.2%
<b>English Language Learners (ESL)</b>	0.9%	6.6%

Source: Iowa Department of Education<sup>5</sup>

## Administration and Staff

The school district has a superintendent, seven principals, one assistant principals, nine members in the administrative cabinet, and supportive staff. The school board is made up of a seven-member panel. The district employs 552 staff members. The district's Buildings and Grounds department, Safety Committee, and a number of additional departments and staff may be available to implement hazard mitigation initiatives. The district trains its staff on emergency procedures through both tabletop and live trainings.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Emergency procedures are discussed with students in each enrolled class at the start of each semester. Once a year the fire department will assist with fire drills and the Grimes Fire Department is present during Fire Prevention Week. Information on emergency procedures is shared with families through newsletters, emails, and social media. In the event of an emergency, the district notifies parents and staff through various methods including email and the mass communication system ThrillShare. Notifications are done in English but can be done in other languages when necessary.

<sup>5</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

Table DCG.3: Capability Assessment

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	Yes
	Continuity of Operations Plan	Yes
	Crisis Response Plan	Yes
	Strategic Plan	Yes
	Grant Manager	No
	Mutual Aid Agreement	No
	Other (if any)	
<b>Fiscal Capability</b>	Applied for grants in the past	No
	Awarded grants in the past	No
	Authority to levy taxes for specific purposes such as mitigation projects	No
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	Yes
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	Yes
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	
<b>Drills</b>	Fire	4 / year
	Tornado	4 / year
	Intruder	1 / year
	Bus evacuation	2 / year
	Evacuation	1 / year
	Other (if any)	

Table DCG.4: Overall Capability

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Limited
Staff/expertise to implement projects	Moderate
Public support to implement projects	High
Time to devote to hazard mitigation	Low

## Plan Integration

### Grants and Funding

According to the local planning team, district funds have been sufficient to both pursue new capital projects and to maintain facilities and systems. A large portion of funds is currently dedicated to the renovations of the DCG high school campus. District funds have increased in recent years due to bonding and increase in county taxes. No grants have been applied for or awarded to the district within the past five years.

### Crisis Response Plan

The school district uses a Crisis Response Plan to react to hazardous events. The Crisis Response Plan discusses natural hazards, addresses shelter in place protocols, and identifies scenarios requiring evacuation and critical evacuation routes. This plan will be reviewed and updated during the 2022-2023 school year.

## Future Development Trends

Over the last five years, the school district has built a new building at Oak View for seventh and eighth grade. Currently the school district is renovating the DCG High School campus. Building Codes, safe rooms, and backup generators have all been considered for the High School's renovation and will be updated as needed.

## Community Lifelines

### Transportation

According to the local planning team, no transportation routes are of high concern. To date no major accidents have impacted schools within the district. DCG owns 36 buses and approximately 2,300 students are bused to and from school each day.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are two chemical storage sites in Dallas Center and 16 sites in Grimes that contain hazardous chemicals. According to the local planning team, while no chemical spills have impacted the schools, the Director of Buildings and Grounds as well as the local building supervisors would be the first to respond if a chemical spill were to occur.

**Table DCG.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>Corteva Dallas Center</b>	205 Fair View Dr Dallas Center, IA 50063	No
<b>Heartland Co-op - Dallas Center</b>	1107 Sycamore Street Dallas Center, IA 50063	No
<b>Arctic Glacier USA Inc.</b>	1300 SE Little Beaver Dr Grimes, IA 50111	No
<b>CenturyLink - Grimes CDO</b>	109 S Main Street Grimes, IA 50111	No
<b>CIRM--Grimes Plant</b>	1301 SE 37th Street Grimes, IA 50111	No
<b>Composites One LLC - Grimes</b>	3450 SE Gateway Drive Grimes, IA 50111	No

## Section Seven: Dallas Center-Grimes School District Profile

<b>Citi Plant 2</b>	3150 SE Meihe Drive Grimes, IA 50111	No
<b>Grimes</b>	5423 NW 100th Grimes, IA 50111	No
<b>Grimes DT</b>	304 S 1st Street Grimes, IA 50111	No
<b>Grimes Water Supply</b>	1801 N James Street Grimes, IA 50111	1% Floodplain
<b>Iowa DOT Grimes Maintenance Garage</b>	2310 SE 17th Street Grimes, IA 50111	No
<b>Liberty Ready Mix Plant 1</b>	5002 Beisser Drive Grimes, IA 50111	No
<b>MAPEI</b>	3555 SE Crossroads Drive #2 Grimes, IA 50111	No
<b>Matheson/Grimes ASU</b>	1255 SW Brookside Circle Grimes, IA 50111	No
<b>MidAmerican Energy - Grimes Substation</b>	1651 SW 37th Street Grimes, IA 50111	No
<b>Norwalk--Grimes Ready Mix</b>	4005 SE Beisser Drive Grimes, IA 50111	No
<b>Owens &amp; Minor - DC 48</b>	1601 SE Gateway Drive Grimes, IA 50111	No
<b>United Contractors Inc. – Grimes Recycle Yard</b>	3101 SW Brookside Drive Grimes, IA 50111	No

Source: Iowa Department of Natural Resources<sup>6</sup>

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

**Table DCG.6: School Buildings Within One Mile of Chemical Storage Sites**

<b>School Building</b>	<b>Address</b>	<b># of Storage Sites Within One Mile</b>
<b>Heritage Elementary</b>	500 NE Beaverbrooke Blvd Grimes, Iowa, 50111	3
<b>South Prairie Elementary</b>	500 S James St Grimes, Iowa, 50111	3

<sup>6</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022.  
<https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

### Critical Facilities

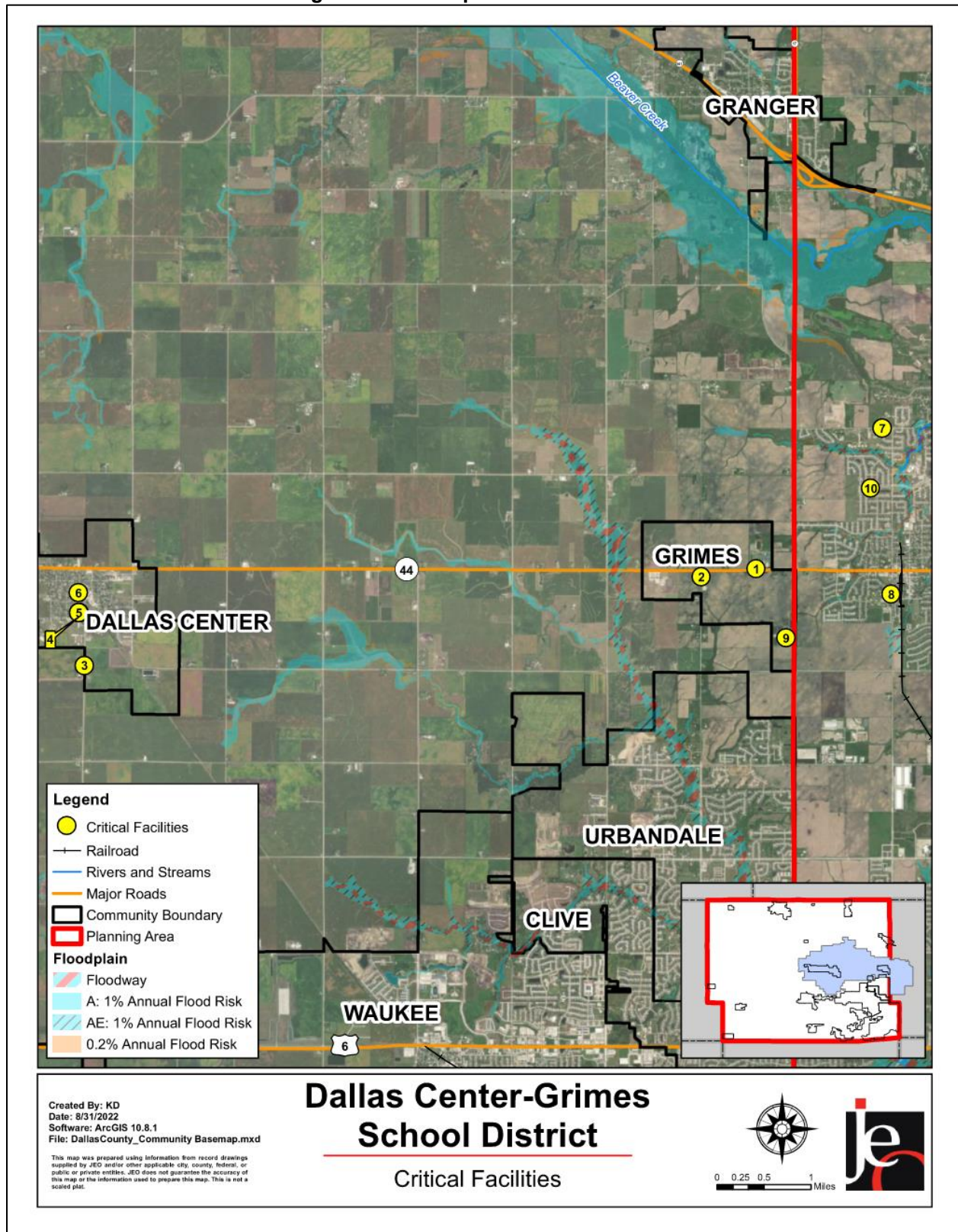
The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table DCG.7: Critical Facilities**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Dallas Center-Grimes High School	Y	Y	N
2	Dallas Center-Grimes School District Transportation Building	N	N	N
3	Dallas Center-Grimes Elementary School	Y	Y	N
4	Dallas Center-Grimes Middle School	Y	Y	N
5	Dallas Center-Grimes Middle School Athletic Complex	N	N	N
6	Dallas Center-Grimes School District Administration Building	N	Y	N
7	North Ridge Elementary School	Y	Y	N
8	South Prairie Elementary School	Y	Y	N
9	Oak View School	Y	Y	N
10	Heritage Elementary/Preschool	Y	Y	N

Figure DCG.4: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profile for the City of Dallas Center for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### Severe Thunderstorms (Includes Hail and Lightning)

This hazard was identified as a top hazard of concern for the school district due mainly to the possibility of power outages and exterior damage. In past thunderstorm events, the school district has experienced damage to roof and roof membranes. The county offers text alerts for severe weather and the school district's critical facilities have weather radios to track incoming severe thunderstorms.

### Severe Winter Storms

Frozen pipes and rooftop damage are the main concerns for this hazard, according to the planning team. The school district has experienced the typical Midwest winter blizzards each year. These blizzards have not resulted in any major structural damage to the district's critical facilities.

### Tornado and Windstorm

Tornado and Windstorm was identified as a top hazard of concern for the school district due to potential the of downed light poles and rooftop damage. During past tornado and windstorm events, the school district has experienced damage including damage to 70% of the South Prairie Elementary School's roof and roof membranes in September 2013. The August 2020 derecho event resulted in damage to the Oak View School's roof. The school district plans to mitigate future risks by building safe rooms or storm shelters in Oak View School and the Dallas center-Grimes High School.

## Mitigation Strategy

### Continued Mitigation and Strategic Actions

Mitigation Action	Safe Rooms
<b>Description</b>	Add safe rooms to current school buildings and/or when building new facilities, include safe rooms in the construction.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$500,000 to \$1,000,000
<b>Funding</b>	Sales tax, PPEL, Bond, HMA
<b>Timeline</b>	3-5 years
<b>Priority</b>	High
<b>Lead Agency</b>	Administration Office
<b>Status</b>	One safe room was completed and a second started with completion anticipated in 2024.

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent and the Director of Buildings and Grounds. The plan will be reviewed bi-annually. The district will involve students, staff, and parents in the plan review and revision process through updates on social media, website updates, letters sent to families, and school board meetings.

## School District Profile

# **Perry Community School District**

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

Table PSD.1: Perry School District Local Planning Team

Name	Title	Jurisdiction
Linda Andorf	Board President	PCSD
Clark Wicks	Superintendent	PCSD
Matt Hix	Building and Grounds	PCSD

## Location and Services

Perry Community School District is located in Dallas County, approximately 25 miles northwest of Des Moines. The district serves the communities of Bouton, Dawson, and Perry. The district's mission, as expressed on its website, states "To develop knowledgeable, skilled, and productive citizens of character." The district is comprised of three schools: Perry High School, Perry Middle School, and Perry Elementary. The district's predominant language is English, but Spanish, Tigrinya, and Dinka are also spoken. Opt-in services are provided for students at St. Patrick's School.

## Demographics

The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has fluctuated in recent years. The local planning team noted they expect little to no change in student enrollment as the population of Perry is not growing. There are 1,808 students enrolled in the district.<sup>7</sup> Aside from English, students in the school district speak Spanish. Emergency instructions or notices are available in Spanish.

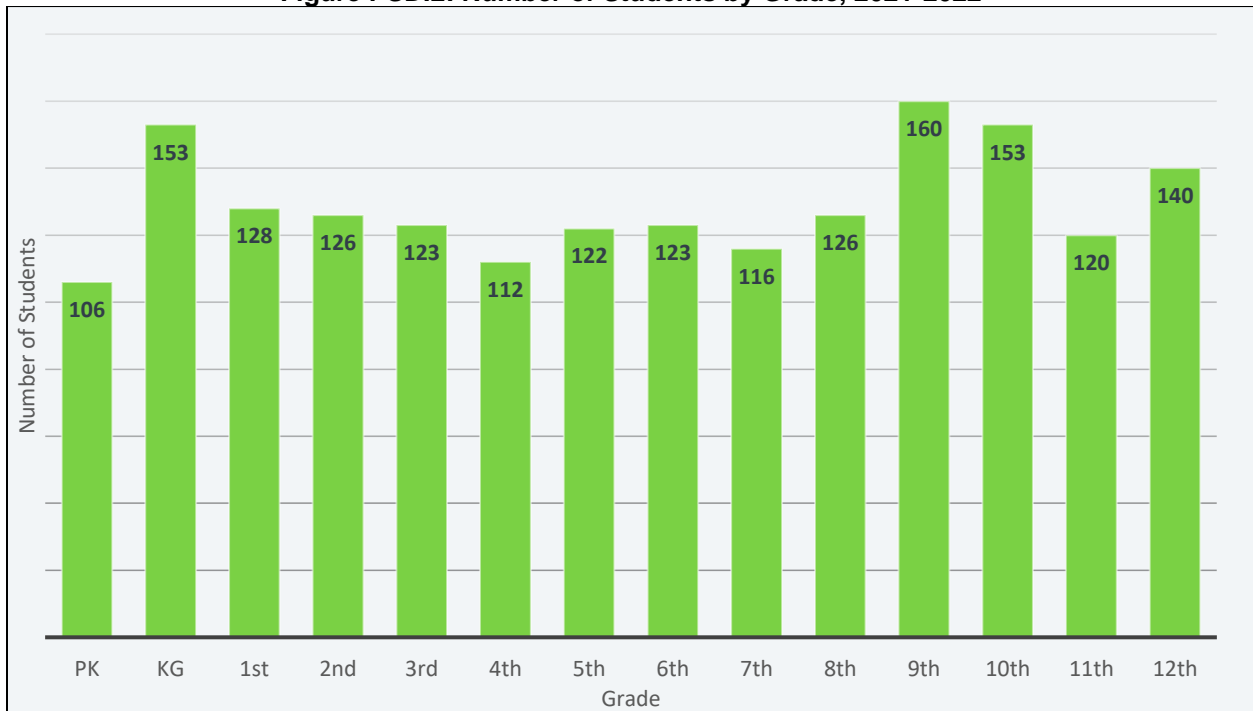
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<sup>7</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

**Figure PSD.1: Student Population 2005-2022**



**Figure PSD.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

Figure PSD.3: Perry School District

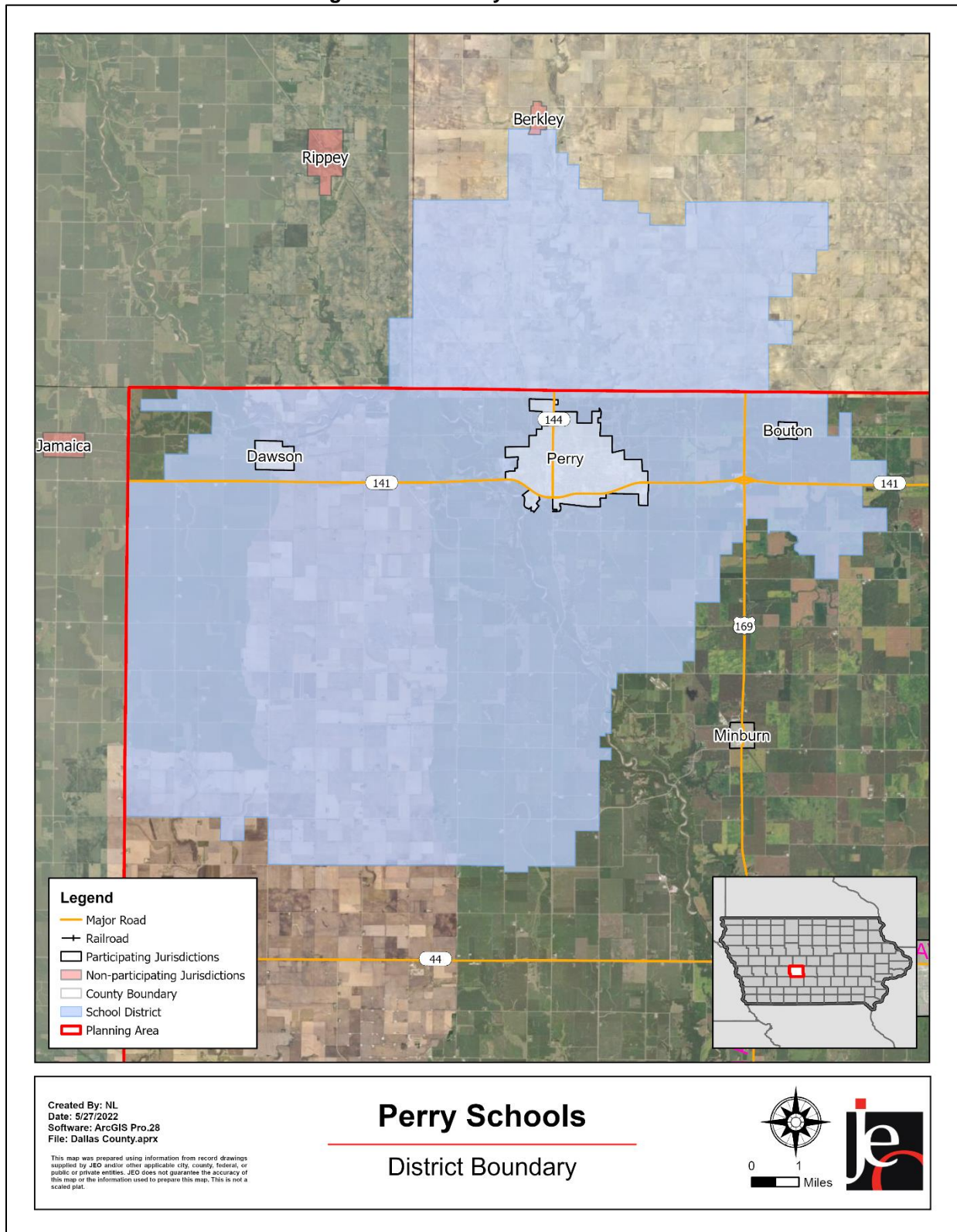


Figure PSD.2 indicates that the largest number of students are in Kindergarten, 9<sup>th</sup>, and 10<sup>th</sup> grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 49.1% of students receive either free or reduced priced meals at school. This is higher than the state average of 40.7%. Additionally, 9.3% of students are in the Special Education Program and 20.9% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table PSD.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	49.1%	40.7%
<b>Special Education Students</b>	14.7%	13.2%
<b>English Language Learners (ESL)</b>	20.9%	6.6%

Source: Iowa Department of Education<sup>8</sup>

## Administration and Staff

The school district has a superintendent, three principals, three assistant principals, and supportive staff. The school board is made up of a five-member panel. There are 300 total teachers and staff members employed by the district. The district has a number of additional departments and staff, including law enforcement, fire department, and city departments that may be available to implement hazard mitigation initiatives. District staff is trained annually in emergency procedures.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Students and families are provided with the student handbook and district website where emergency procedures are outlined. Parents and staff are notified of emergency events through a notification system, emails, and social media. Notifications are available in all languages that district students speak. The school district partners with local fire and police departments for exercises in emergency procedures.

<sup>8</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

**Table PSD.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	Yes
	Continuity of Operations Plan	Yes
	Crisis Response Plan	Yes
	Strategic Plan	Yes
	Grant Manager	Yes
	Mutual Aid Agreement	No
	Other (if any)	No
<b>Fiscal Capability</b>	Applied for grants in the past	No
	Awarded grants in the past	No
	Authority to levy taxes for specific purposes such as mitigation projects	No
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	No
	Flood Insurance	No
	Other (if any)	No
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	Yes
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	No
<b>Drills</b>	Fire	4 / year
	Tornado	2 / year
	Intruder	1 / year
	Bus evacuation	1 / year
	Evacuation	1 / year
	Other (if any)	No

**Table PSD.4: Overall Capability**

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Moderate
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Moderate

## Plan Integration

### **Grants and Funding**

According to the local planning team, district funds are limited to maintaining current facilities and systems. District funds have increased in recent years due to enrollment. PCSD has not applied for or been awarded any grants in the last five years.

### **Crisis Response Plan**

The school district uses a Crisis Response Plan to react to hazardous events. The Crisis Response Plan discusses natural hazards, addresses shelter in place protocols, and identifies the following: scenarios requiring evacuation, critical evacuation routes, sheltering locations, opportunities for mitigation following an event, and any gaps related to particular hazards. The plan is updated annually as needed.

## Future Development Trends

The major developments to occur in the last five years the demolition of the old football press box, the addition of solar panels, added on with two new buildings, the reroofing of buildings, a new track surface, and the addition of some new RTU's. Currently, the elementary school kitchen is undergoing renovations. The school district acquired new HVAC systems over the past five years.

## Community Lifelines

### **Transportation**

According to the local planning team, routes that may be flooded or snow impacted roads are of the most concern to the school district. To date, no major accidents have impacted schools within the district. PCSD owns 18 school buses and approximately 700 students are bused to and from school each day.

### **Hazardous Materials**

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are 15 chemical storage sites in Perry that contain hazardous chemicals. According to the planning team, no chemical spills have impacted the schools and the Fire Department would be the first to respond in the event of a spill.

## Section Seven: Perry School District Profile

**Table PSD.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>CenturyLink - Perry CO</b>	1424 Willis Avenue Perry, IA 50220	No
<b>CIRM-- Perry Plant</b>	915 Railroad Street Perry, IA 50220	No
<b>Dallas County Hospital</b>	610 10th St. Perry, IA 50220	No
<b>ITC Midwest Perry</b>	1400 I Court Perry, IA 50220	1% Floodplain
<b>Landus Cooperative - Perry</b>	2229 Clover Ave Perry, IA 50220	No
<b>Minburn Telephone Company - CLEC</b>	923 Willis Ave Perry, IA 50220	No
<b>Perry</b>	104 Willis Avenue Perry, IA 50220	No
<b>Perry Maintenance Building</b>	205 South First Street Perry, IA 50220	No
<b>Perry Municipal Water Works</b>	1101 W Third Street Perry, IA 50220	No
<b>Perry Willis</b>	910 I Court Perry, IA 50220	1% Floodplain
<b>Progressive Foundry Inc</b>	1518 1st Ave Perry, IA 50220	No
<b>Quick Oil Co</b>	104 Willis Avenue Perry, IA 50220	No
<b>Star Energy FS - A Division Of Growmark Inc. - Perry</b>	296 335th Street Perry, IA 50220	No
<b>Tyson Fresh Meats Inc</b>	13500 I Court Drive Perry, IA 50220	1% Floodplain
<b>Wiese Industries</b>	1501 5th Street Perry, IA 50220	No

Source: Iowa Department of Natural Resources<sup>9</sup>

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

<sup>9</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022. <https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

**Table PSD.6: School Buildings Within One Mile of Chemical Storage Sites**

School Building	Address	# of Storage Sites Within One Mile
District Office	1102 Willis Ave Perry, Iowa, 50220	10
Perry High School	1200 18th Street Perry, IA 50220	1
Perry Middle School	1200 18th Street Perry, IA 50220	1
Perry Elementary School	1600 8th St Perry, Iowa, 50220	7

### Critical Facilities

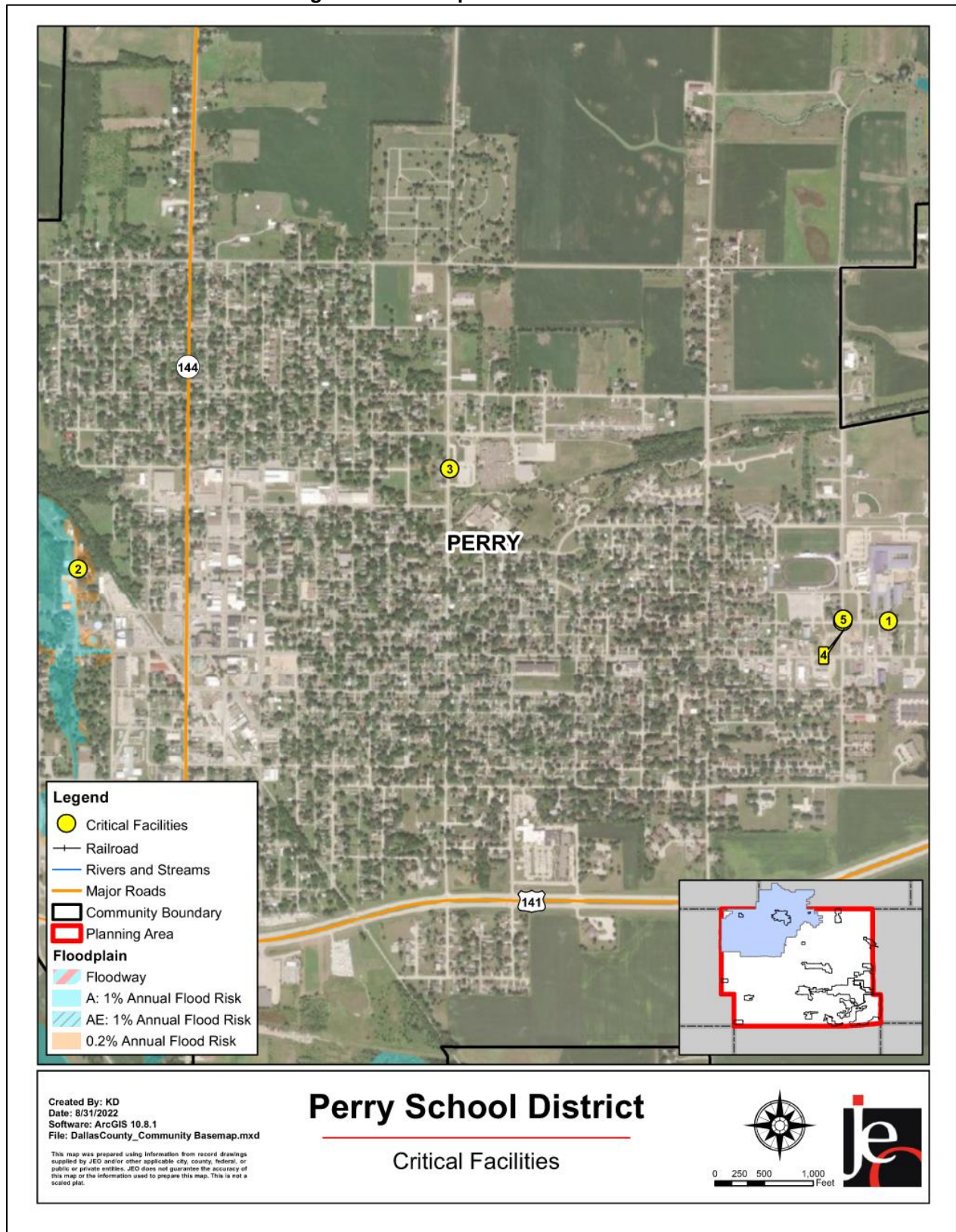
The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table PSD.7: Critical Facilities**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Perry Community School District Bus Garage	N	N	N
2	Perry Community School District Maintenance Shop	N	N	N
3	Perry Elementary School	N	N	N
4	Perry Middle School	N	N	N
5	Perry High School	N	N	N

**Figure PSD.4: Map of Critical Facilities**



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profile for the City of Perry for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Extreme Temperatures**

Concerns associated with extreme temperatures as noted by the local planning team include pipe breakage, loss of heat, and loss of cooling units. According to the local planning team, the school district has experienced water pipe bursts due to pipes freezing.

### **Severe Thunderstorms (Includes Hail and Lightning)**

This hazard was identified as a top hazard of concern for the school district due mainly to power outages that result in loss of lights, security, cooling, heat, and may lead to food spoilage. The school district has sustained damage due to thunderstorms and hail in the past including roof damage causing water leaks, structural damage to the outside property, power outages, and lightning strikes causing power surges to electrical equipment. To reduce the risk of severe thunderstorms the school district makes use of weather alerts provided by both the county and local authorities and all buildings within the district are equipped with weather alert radios. To reduce future risk to future damages, the local planning team would like to install backup generators to all facilities.

### **Severe Winter Storms**

Power outages and transportation impacts are the main concerns for this hazard, according to the planning team. Student drivers can especially be impacted to winter weather conditions due to their lack of driving experience. According to the local planning team, heavy snow and ice storms are regular occurrences with gutter damage having occurred to critical facilities within the school district. The worst occurrence happening in the late 1990s when gravel roads were shut down around the county for a week due to a significant snow event. During that time buses were not able to pick up students.

### **Tornado and Windstorm**

Tornado and Windstorm was identified as a top hazard of concern for the school district. The result of this hazard may cause structure failure or complete loss, power outages, and even injuries or fatalities. The school district has experienced roof damage to various structures, tree damage, and damage to fencing and signage from the August 2020 and December 2021 Derechos.

## Mitigation Strategy

### Continued Mitigation and Strategic Actions

Mitigation Action	Backup Generators
<b>Description</b>	Purchase generators for district buildings
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$150,000 (3 generators)
<b>Funding</b>	District Facility Funds, HMA
<b>Timeline</b>	4 years
<b>Priority</b>	High
<b>Lead Agency</b>	Administration and Building & Grounds
<b>Status</b>	The school district is obtaining pricing and looking at the district's budget.

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent and the Director of Buildings and Grounds. The plan will be reviewed bi-annually, and the public will be included in the review and revision process via social media, website updates, and call notifications.

## District Profile

# Perry Water Works

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

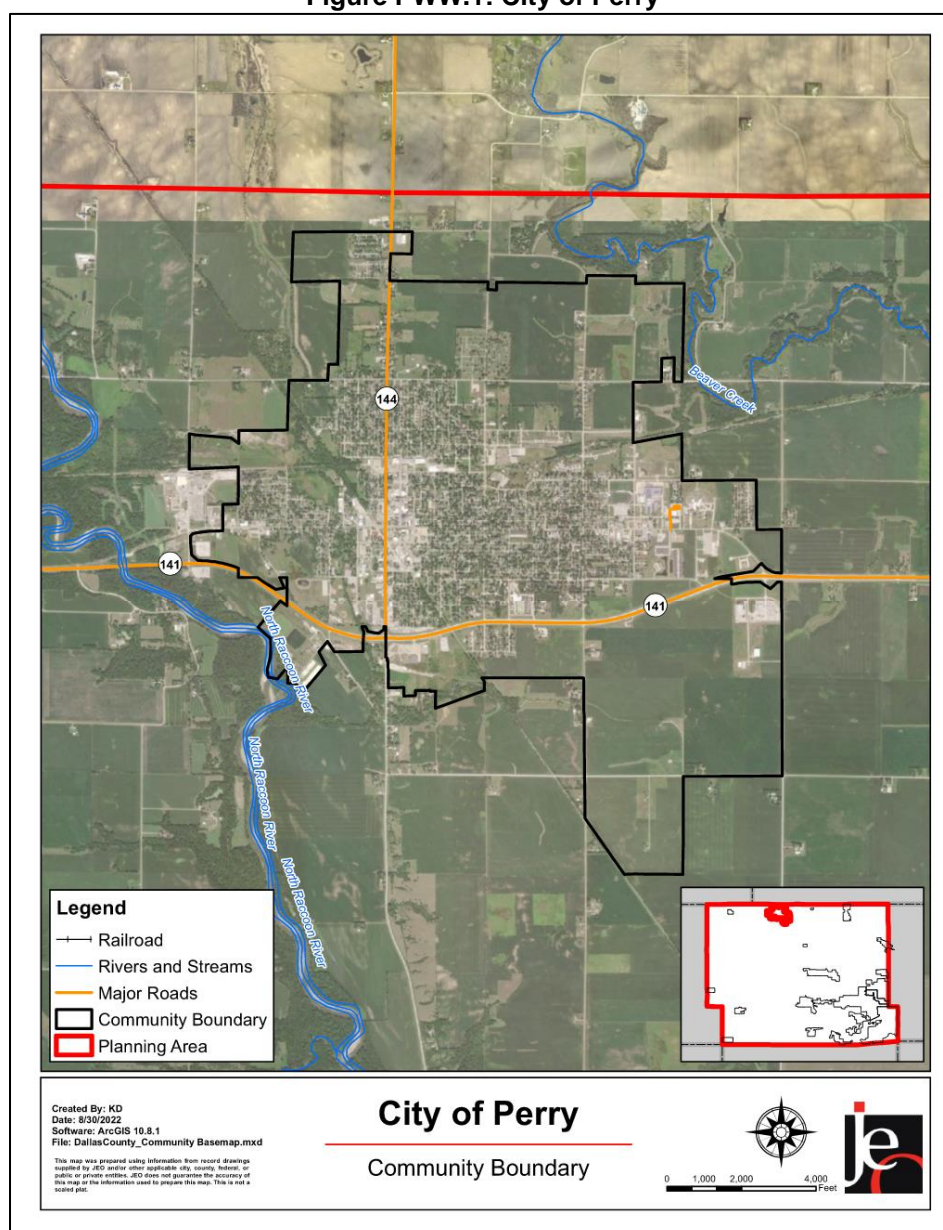
**Table PWW.1: Perry Water Works Local Planning Team**

Name	Title	Jurisdiction
Matt Holmes	Superintendent	Perry Water Works

## Location and Geography

Perry Water Works supplies water to the City of Perry and surrounding homes and businesses within two miles outside city limits. Originally a part of the City of Perry, the Board of Trustees was created in the 1950s to oversee operations. There are approximately 8,000 people served within 3,050 billed accounts.

**Figure PWW.1: City of Perry**



## Capability Assessment

Due to the unique structure of water districts, the typical capability assessment table was not used. The following table summarizes the district's overall capabilities. Perry Water Works will continue to utilize existing relationships with local, county, state, and federal agencies in the implementation of mitigation projects.

**Table PWW.2: Overall Capability**

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Limited
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Limited

## Plan Integration

Perry Water Works has an emergency response plan that was completed in 2021. This plan fully covers wells, the treatment facility, storage tanks, administration, and controls. Current protective measures, redundancies, and issue correction procedures are outlined within the plan. Future mitigation actions are not discussed in this plan.

## Critical Infrastructure

Perry Water Works owns a water treatment plant on West 4<sup>th</sup>, an administrative office on West 3rd, and three well houses.

### Critical Facilities

The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as part of this plan update. The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table PWW.3: Critical Facilities - City**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Perry Municipal Airport	N	Y	N
2	Pegasus TV	N	N	N
3	The Perry Chief	N	N	N
4	Iowa Electric Power & Light Co - Electric Substation	N	Y	N
5	McCreary Community Building	Y	Y	N
6	Perry City Hall	N	Y	N
7	Perry Public Works	N	Y	N
8	Hy Vee Perry	N	N	N
9	KDLS Radio Station	N	N	N

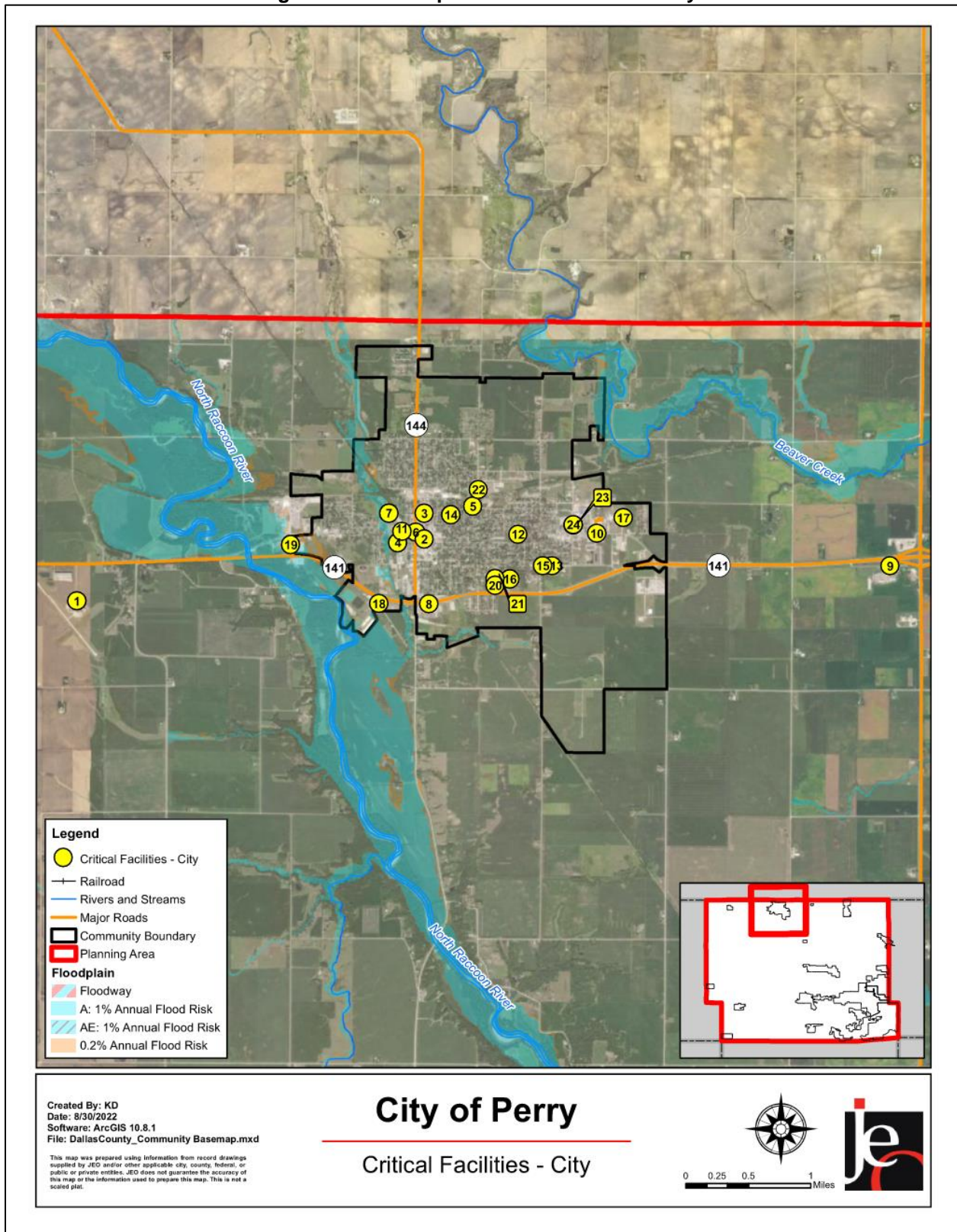
## Section Seven: Perry Water Works Profile

10	Iowa National Guard and Alternative School	Y	Y	N
11	Perry Police and Fire Departments	Y	Y	N
12	Perry Lutheran Home - Main Campus	N	Y	N
13	Trinity Evangelical Lutheran Church	N	N	N
14	St Patrick's School	Y	N	N
15	Pearl Valley Rehabilitation & Health Care Center	N	Y	N
16	Perry Lutheran Home - Spring Valley Campus	N	Y	N
17	Perry Lutheran Home – Eden Acres Campus	N	Y	N
18	Perry Wastewater Treatment Plant	N	Y	N
19	Interstate Power and Light Company Electric Substation	N	Y	Y (0.2%)
20	Dallas County EMS - Perry Station	N	Y	N
21	Dallas County Hospital	Y	Y	N
22	Perry Elementary School	Y	N	N
23	Perry High School	Y	N	N
24	Perry Middle School	Y	N	N

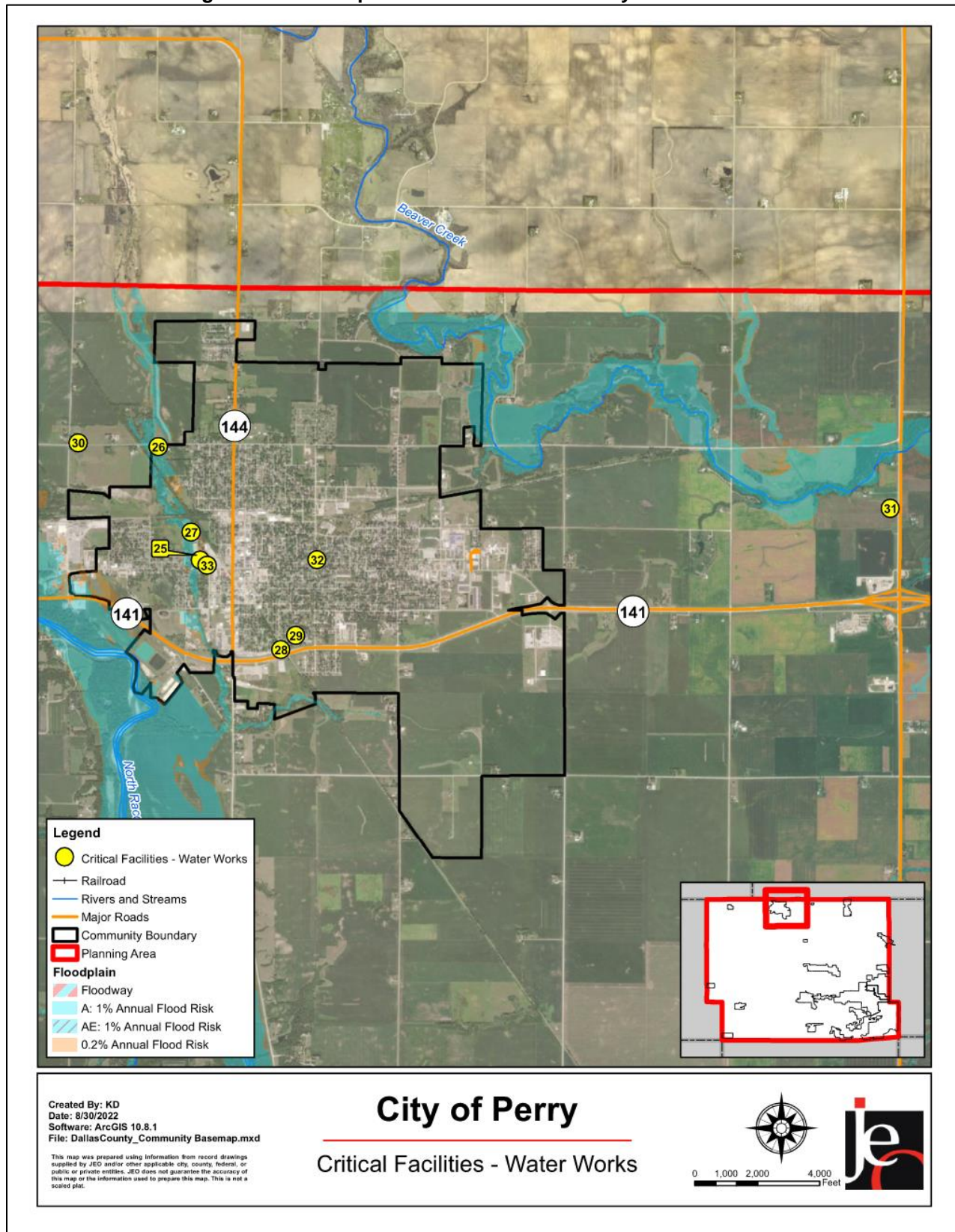
**Table PWW.4: Critical Facilities – Water Works**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
25	Perry Water Treatment Plant	N	Y	N
	Chlorine Building	N	Y	N
	1 Million Gallon Reservoir	N	N/A	N
	0.5 Million Gallon Reservoir	N	N/A	N
	Pump House	N	Y	N
	Well 12	N	Y	N
	Well 19	N	Y	N
26	Well 9R	N	N	Y (1%)
	Well 18	N	N	Y (1%)
27	Well 13	N	Y	Y (1%)
	Well 14	N	Y	Y (1%)
28	Well 15	N	N	N
	Well 16	N	N	N
29	Well 17	N	N	N
30	Well 20	N	N	N
	Well 21	N	N	N
31	Well 22	N	N	N
	Well 23	N	N	N
32	Water Tower	N	N	N
33	Perry Water Works Administration Building	N	Y	N

Figure PWW.2: Map of Critical Facilities - City



**Figure PWW.3: Map of Critical Facilities – Perry Water Works**



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as relevant hazards for the district. The local planning team prioritized the selected hazards based on historical hazard occurrences, potential impacts, and the district's capabilities. For more information regarding regional hazards, please see *Section Four: Risk Assessment*.

### **Extreme Temperature**

The water district identified extreme temperatures as a hazard of top concern due to damage to water mains during extreme cold and increase of water usage during extreme heat. During extreme cold temperatures, major water main breaks have occurred as water froze before reaching the storm drains, creating ice issues. Cold temperatures can result in equipment failure and frozen pipes at the treatment plant, impacting the production of treated water. On extreme heat temperature days, water usage within the City of Perry. In the past, the water district has had issues keeping up with demand as certain wells are unusable due to nitrification in the heat.

### **Infrastructure Failure**

Most of the infrastructure within the water district is redundant. Failure of the non-redundant infrastructure is a major concern to the local planning team. In the past, the water district has experienced underground power failure that also disconnected the generator. Water continued to enter the treatment plant but could not be pumped out into the system, resulting in a flood within the plant that began to submerge the electric pumps and could have stopped all water production for weeks.

### **Severe Winter Storms**

According to the local planning team, power outages during a severe winter storm are of concern. The water district can run a million gallons per day through onsite wells and generators and has a contract with Tyson for that amount of water. If a winter storm prevents the water district from getting back-up power to additional wells when Tyson pulls water, the water district could have a hard time fulfilling demand to other customers.

### **Tornado and Windstorm**

The water district's water treatment plant is located within one building, making tornado and windstorms a hazard of concern. If the water treatment plant were to be damaged by a tornado or impacted by a large windstorm, water production could be stopped. During the 2020 derecho, the water plant was not affected, but power was lost to the well sites for several days. The water treatment plant's generator was able to operate all onsite wells and fulfill water demand during the power outage.

## Mitigation Strategy

### New Mitigation and Strategic Actions

Mitigation Action	Backup Generators & Transfer Switches
<b>Description</b>	Transfer switches installed on additional well sites as well as a permanent stand-by generator or portable generator. Current production of generated wells is 1,000,000 GPD. However, usage has recently increased from 850,000 GPD to 1,600,000 GPD. It is currently unknown if usage will stay this way or go back down.
<b>Hazard(s)</b>	Human Infectious Diseases, Infrastructure Failure
<b>Estimated Cost</b>	\$30,000
<b>Local Funding Source</b>	Local funds available
<b>Timeline</b>	2-5 Years
<b>Priority</b>	Medium
<b>Lead Agency</b>	Perry Water Works
<b>Status</b>	Not started

Mitigation Action	Implementation of Chlorine Scrubber System
<b>Description</b>	The chlorine room protects employees from chlorine exposure but does not protect the community. A chlorine scrubber system is needed to reduce evacuation area in the event of a large chlorine leak.
<b>Hazard(s)</b>	Human Infectious Diseases, Infrastructure Failure
<b>Estimated Cost</b>	\$50,000
<b>Local Funding Source</b>	Local funds
<b>Timeline</b>	5+ Years
<b>Priority</b>	Low
<b>Lead Agency</b>	Perry Water Works
<b>Status</b>	Not started

Mitigation Action	Interconnections with Xenia Rural Water
<b>Description</b>	Interconnections between Perry Water Works and Xenia Rural Water would provide an additional source of water to help supplement Perry Water Works in the event of an emergency.
<b>Hazard(s)</b>	Human Infectious Diseases, Infrastructure Failure
<b>Estimated Cost</b>	\$2,000,000
<b>Local Funding Source</b>	Local funds, SRF
<b>Timeline</b>	5+ Years
<b>Priority</b>	Medium
<b>Lead Agency</b>	Perry Water Works
<b>Status</b>	Not started

Mitigation Action	Water Treatment Plant
<b>Description</b>	Usage has recently increased from 850,000 GPD to 1,600,000 GPD, increasing the burden on infrastructure. An additional water treatment plant is required to increase redundancies and avoid infrastructure failure.
<b>Hazard(s)</b>	Human Infectious Diseases, Infrastructure Failure
<b>Estimated Cost</b>	\$10,000,000
<b>Funding</b>	Local funds, SRF
<b>Timeline</b>	2-5 Years
<b>Priority</b>	High
<b>Lead Agency</b>	Perry Water Works
<b>Status</b>	Not started

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside community planning documents (e.g., annual budgets and Capital Improvement Plans), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin, including CDBG, Water Sustainability Fund, Revolving State Fund, or other identified funding mechanisms.

The water utility's planning team is responsible for reviewing and updating this planning profile as changes can occur before or after a major event. The plan will be reviewed bi-annually and as needed.

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## School District Profile

# Van Meter School District

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table VMS.1: Van Meter School District Local Planning Team**

Name	Title	Jurisdiction
Deron Durflinger	Superintendent	Van Meter School District

## Location and Services

Van Meter School District is located in Dallas and Madison Counties, just west of Des Moines. The district's mission, as expressed on its website, states "The mission of Van Meter Schools is to personalize learning for each student's success today and tomorrow" The district is comprised of three schools: Van Meter High School, Van Meter Middle School, and Van Meter Elementary School. English is the predominant language in the district, but Spanish is also spoken. The school district provides opt-in services for students from Waukee, West Des Moines Schools, Adel-De Soto-Minburn Schools, Winterset, Perry, Earlham, West Central Valley Schools, Norwalk, Indianola, and Dallas Center-Grimes Schools.

## Demographics

The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has steadily increased since 2011. The local planning team noted seeing an increase in student population due to new homes being built within the district. There are 1,045 students enrolled in the district.<sup>10</sup> Aside from English, students within the school district speak Spanish. Emergency instructions or notices are available in Spanish if needed.

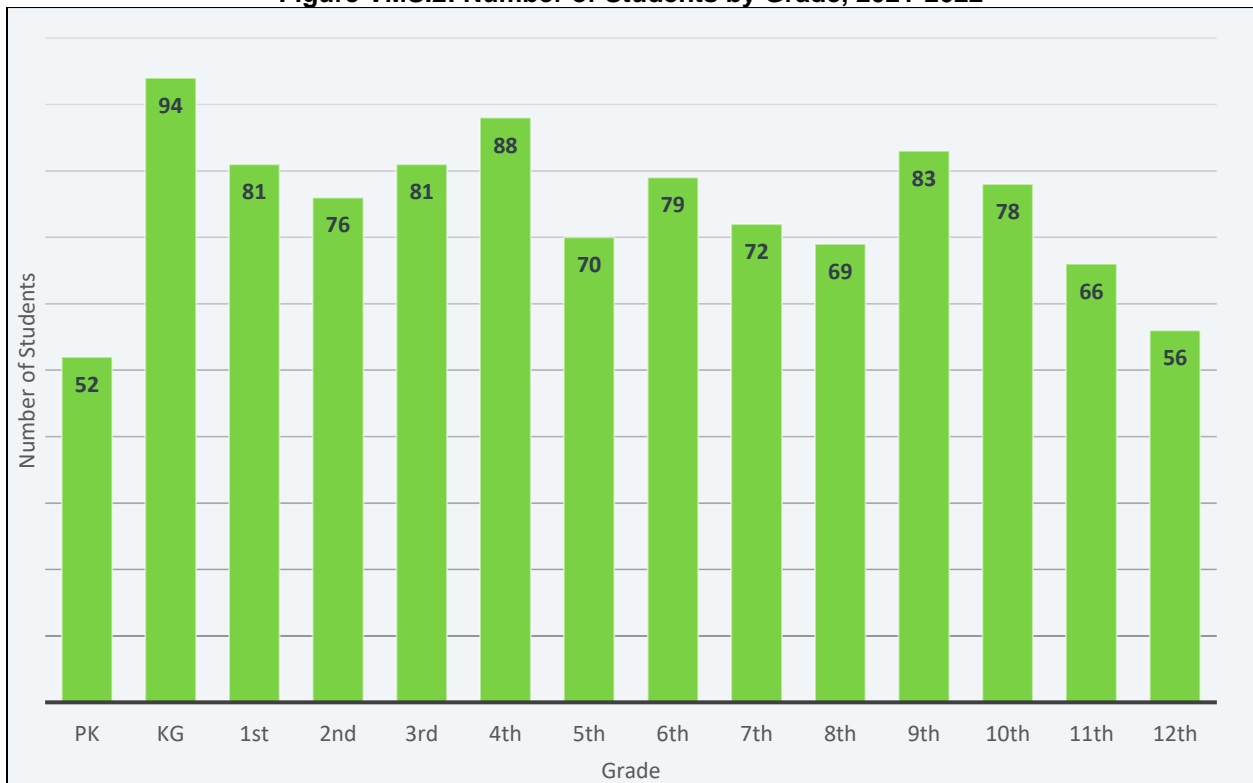
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<sup>10</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

**Figure VMS.1: Student Population 2005-2022**



**Figure VMS.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

**Figure VMS.3: Van Meter School District**

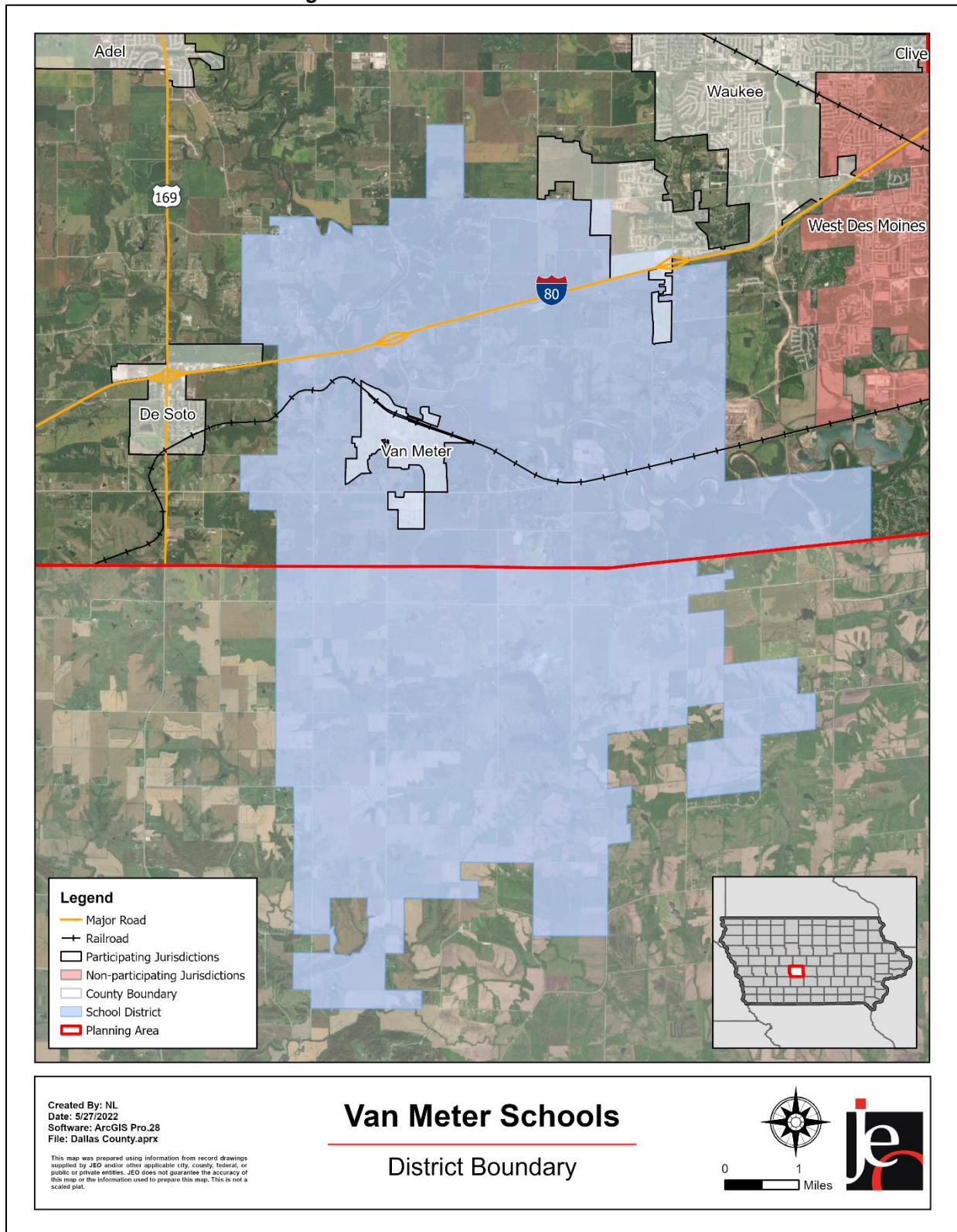


Figure VMS.2 indicates that the largest number of students are in Kindergarten, 4<sup>th</sup>, and 9<sup>th</sup> grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 5.7% of students receive either free or reduced priced meals at school. This is lower than the state average of 40.7%. Additionally, 8.6% of students are in the Special Education Program and 0.3% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table VMS.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	5.7%	40.7%
<b>Special Education Students</b>	8.6%	13.2%
<b>English Language Learners (ESL)</b>	0.3%	6.6%

Source: Iowa Department of Education<sup>11</sup>

## Administration and Staff

The school district has a superintendent, two principals, 2 deans of students, and supportive staff. The school board is made up of a five-member panel. The district employs between 100 and 120 teachers and staff. The district's Business Office, Human Resource Office, Operations and Maintenance Office, and a number of additional departments and staff that may be available to implement hazard mitigation initiatives. The school district trains staff members on emergency procedures through drills and tabletop exercises.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Emergency procedures are provided to students and families through handbooks, newsletters, and performing drills. In the event of an emergency, the district notifies parents and staff through email or newsletters in all languages students speak when necessary. The school district works with the Van Meter Public Safety Department for education and exercises.

**Table VMS.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	Yes
	Continuity of Operations Plan	Yes
	Crisis Response Plan	Yes
	Strategic Plan	Yes
	Grant Manager	No
	Mutual Aid Agreement	No
	Other (if any)	

<sup>11</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

<b>Fiscal Capability</b>	Applied for grants in the past	No
	Awarded grants in the past	No
	Authority to levy taxes for specific purposes such as mitigation projects	No
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	No
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	No
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	
<b>Drills</b>	Fire	4 / year
	Tornado	4 / year
	Intruder	2 / year
	Bus evacuation	1 / year
	Evacuation	2 / year
	Other (if any)	

Table VMS.4: Overall Capability

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Moderate
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Moderate

## Plan Integration

### Grants and Funding

According to the local planning team, district funds have been sufficient to both pursue new capital projects and to maintain facilities and systems. A large portion of funds is currently dedicated to the renovations of the Van Meter Elementary School in the next few years. District funds have increased in recent years. No grants have been applied for or awarded to the district within the past five years.

### Crisis Response Plan

The school district uses a Crisis Response Plan to react to hazardous events. The Crisis Response Plan discusses natural hazards of earthquake, fire, lightning, pandemic, severe weather and floods, and tornado. The plan addresses shelter in place protocols and identifies the following: scenarios requiring evacuation, critical evacuation routes, sheltering locations,

opportunities for mitigation following an event, and any gaps related to particular hazards. The plan is updated as needed.

## Future Development Trends

The local planning team notes there have been no major developments within the district in the past five years, though new equipment and infrastructure has been acquired. New construction is planned on the East Campus in the near future.

## Community Lifelines

### Transportation

According to the local planning team, any rural routes are of most concern for the school district. To date, no major accidents have impacted schools within the district. Van Meter School District owns 12 school buses and approximately 500 students are bused to and from school each day.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there is one chemical storage sites in Van Meter that contains hazardous chemicals. According to the local planning team, while no chemical spills have impacted the schools, Van Meter Public Safety Department would be the first to respond if a chemical spill were to occur. Within the district, the road most at risk if spills occurred would be R16 when it crosses the railroad tracks.

**Table VMS.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
CenturyLink - Van Meter CDO	406 Wilson Avenue Van Meter, IA 50261	No

Source: Iowa Department of Natural Resources<sup>12</sup>

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

**Table VMS.6: School Buildings Within One Mile of Chemical Storage Sites**

School Building	Address	# of Storage Sites Within One Mile
Van Meter Elementary	520 1st Ave Van Meter, Iowa, 50261	1
Van Meter Middle School	520 1st Ave Van Meter, Iowa, 50261	1
Van Meter High School	520 1st Ave Van Meter, Iowa, 50261	1
District Office	520 1st Ave Van Meter, Iowa, 50261	1

<sup>12</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022.  
<https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

### Critical Facilities

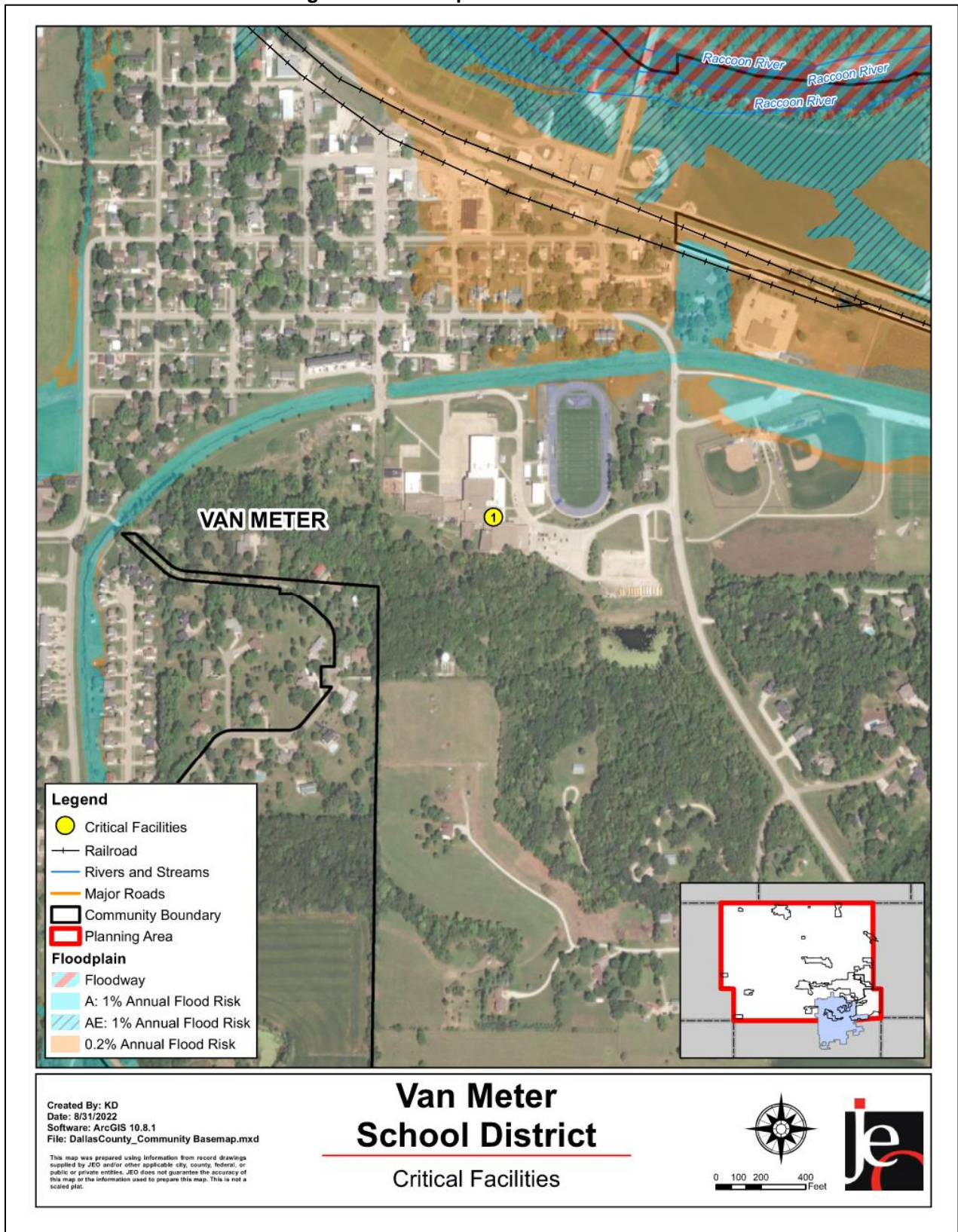
The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table VMS.7: Critical Facilities**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Van Meter Elementary School	Y	N	N
	Van Meter High School	Y	N	N
	Van Meter Middle School	Y	N	N

Figure VMS.4: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profiles for the City of Van Meter for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Landslide**

Landslides are of major concern for the school district's buildings located at the bottom of a hill. According to the local planning team, the school district has not experienced any significant landslides events in the past. The county offers text alerts for hazardous events, allowing for the school district to be alerted of any impending events. The school district's critical facilities are not equipped with weather radios.

### **Severe Thunderstorms (Includes Hail and Lightning)**

This hazard was identified as a top hazard of concern for the school district due mainly to the possibility of roof damages and flooding. The local planning team reports that past hail events have resulted in roof damage to critical facilities within the school district. To mitigate future risks to this hazard, the local planning team has stated a backup generator would be a good tool for the district to have. The county offers text alerts for hazardous events, allowing for the school district to be alerted of any impending events, however the district's critical facilities are not equipped with weather radios.

### **Tornado and Windstorm**

Tornado and Windstorm was identified as a top hazard of concern for the school district due to potential for rooftop damage. Past windstorm events have impacted the school district's critical facilities, including some fencing damage during a derecho event a few years ago. During a tornado event, the schools use locker rooms and interior areas of buildings to protect students and staff from potential injury. There are no official safe rooms or storm shelters within the school district.

## Mitigation Strategy

### Completed Mitigation and Strategic Actions

Mitigation Action	Van Meter Schools Storm Water Drainage
Description	Provide more disperse intake, provide greater diameter piping, provide more points of discharge, and provide areas of retention. Storm water management is inadequate. The facilities and grounds need better storm water management, intake, flow, discharge, and retention.
Hazard(s)	Flooding
Status	Completed

### Continued Mitigation and Strategic Actions

Mitigation Action	Backup Generator
Description	Purchase a generator to support energy needs of the district and provide power as needed when electricity goes out.
Hazard(s)	All hazards
Estimated Cost	\$100,000
Funding	Local Funds, HMA
Timeline	2-3 months
Priority	High
Lead Agency	Superintendent
Status	Not started

Mitigation Action	Safe Room
Description	Construct saferoom to provide shelter for Van Meter students, staff, and citizens during a tornado.
Hazard(s)	All hazards
Estimated Cost	\$2,500,000
Funding	Local Funds, HMA
Timeline	1-3 years
Priority	High
Lead Agency	Superintendent
Status	Not started

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent, the Director of Public Safety, and the Director of Operations and Maintenance. This plan will be reviewed annually. The public will be included in the review and revision process via newsletters.

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## School District Profile

# Waukee School District

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table WSD.1: Waukee School District Local Planning Team**

Name	Title	Jurisdiction
<b>Stacie DeHaan</b>	Director of Instructional Services	WCSD
<b>Kirk Johnson</b>	Chief Operating Officer	WCSD
<b>Sarah Kautz</b>	Chief Financial Officer	WCSD
<b>Roxanne Livermore</b>	Executive Director of Human Resources	WCSD
<b>Amy Varcoe</b>	Executive Director of Communications	WCSD

## Location and Services

Waukee School District is located in Dallas and Polk Counties and covers much of the western Des Moines metro area. The district serves students in the communities of Clive, Urbandale, Waukee, and West Des Moines. The school districts athletics, activities, and community education camps and clinics are available as opt-in services for surrounding communities. The district's vision, as expressed on its website, states "Inspiring learners who feel valued, challenged, and prepared to embrace tomorrow's opportunities." The district's predominant language is English with Spanish, Arabic, Bosnian, and Telugu being the next more frequently spoken. The district is comprised of sixteen schools and two learning centers:

- K-5 Attendance Centers:
  - Brookview Elementary School
  - Eason Elementary School
  - Grant Ragan Elementary School
  - Maple Grove Elementary School
  - Radiant Elementary School
  - Shuler Elementary School
  - Sugar Creek Elementary School
  - Walnut Hills Elementary School
  - Waukee Elementary School
  - Woodland Hills Elementary School
- 6-7 Attendance Centers:
  - South Middle School
  - Waukee Middle School
- 8-9 Attendance Centers:
  - Prairieview School
  - Timberline School
- 10-12 Attendance Centers:
  - Waukee High School
  - Northwest High School
  - Waukee Innovation & Learning Center (WILC)
- Specialized Programming:
  - Vince Meyer Learning Center (Preschool & 12+ Programming)

## Demographics

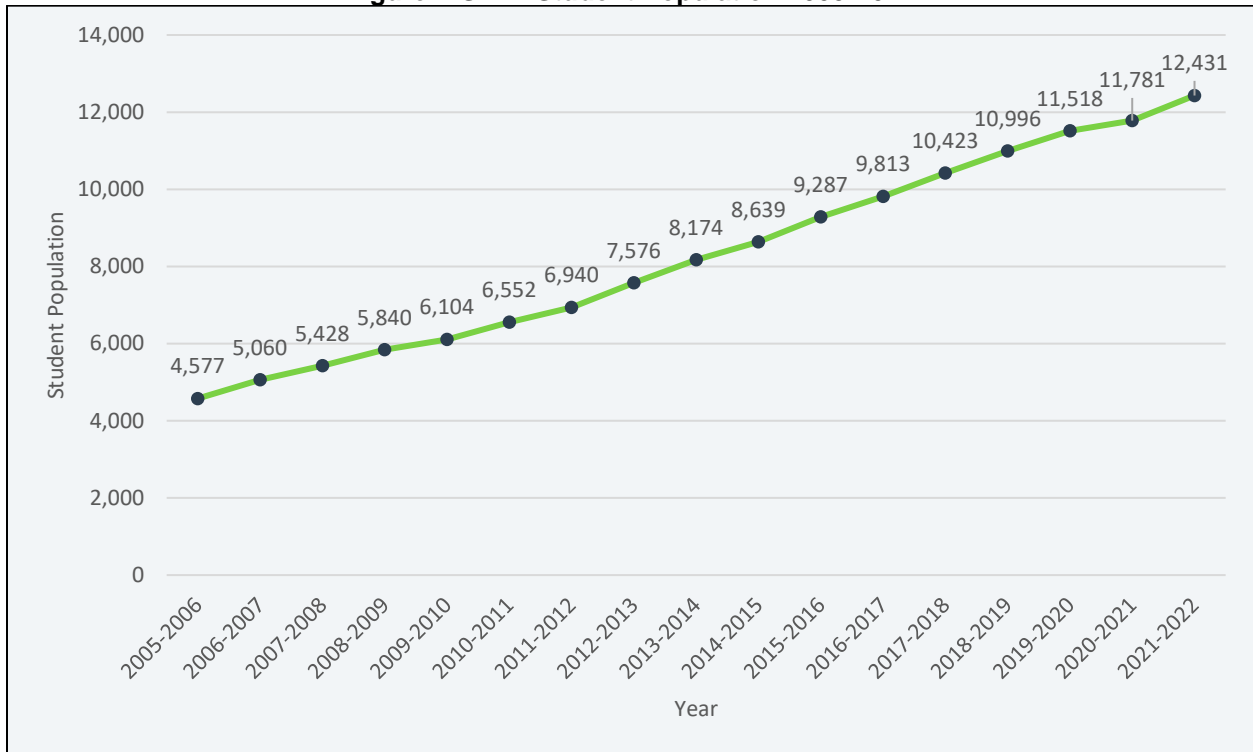
The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has rapidly increased since 2005. There are 12,431 students enrolled in the district.<sup>13</sup> The local planning team noted they expect an increase in student enrollment as the population of the City of Waukee has experienced exponential growth and the district's other communities served of Clive, West Des Moines, and Urbandale are also growing. Within the school district, 86.76% of students speak English, 2.5% speak Spanish, 1.99% Arabic, 1.38% Bosnian, 1.2% Telugu, 0.61% Chinese, 0.51% Tamil, and 0.5% Vietnamese. The remaining 5.0% of students speak a mixture of languages, most making up less than 0.1% of students. All notifications are available in a student's family's preferred language via the ParentSquare application. Emergency instructions and notifications are sent to families through ParentSquare and delivered by email, phone, and text messages.

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<sup>13</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

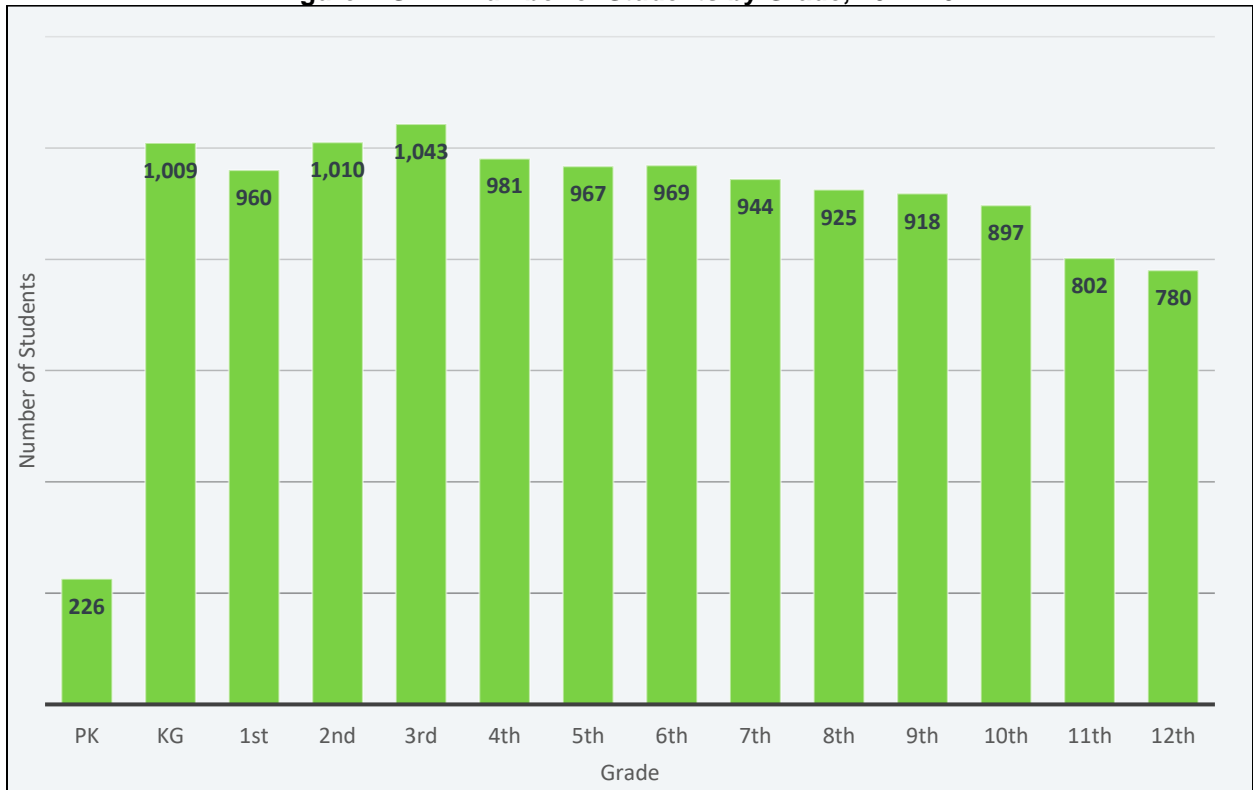
## Section Seven: Waukee School District Profile

**Figure WSD.1: Student Population 2005-2022**



Source: Iowa Department of Education

**Figure WSD.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

Figure WSD.3: Waukee School District

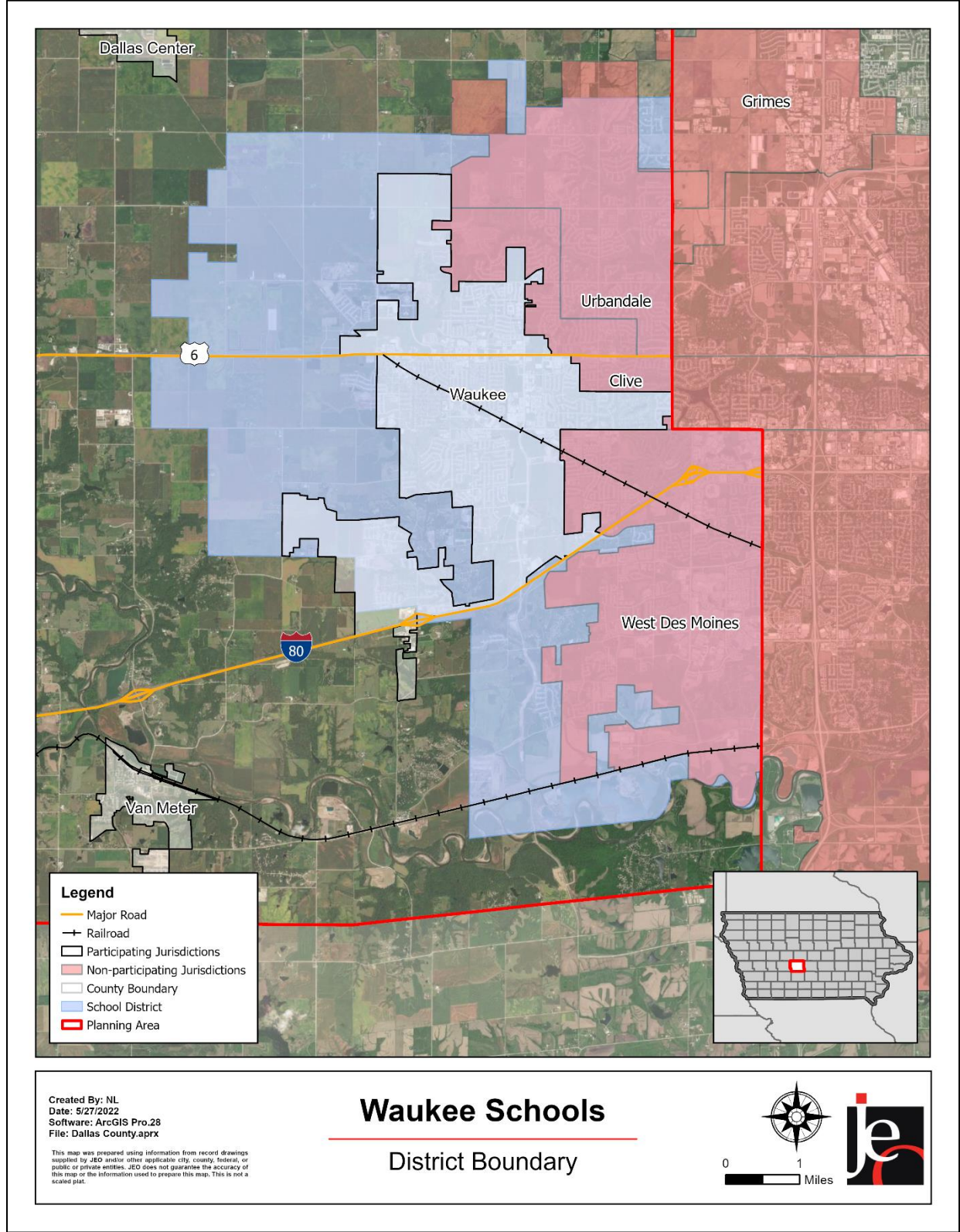


Figure WSD.2 indicates that the largest number of students are in Kindergarten, 2<sup>nd</sup>, and 3<sup>rd</sup> grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 16% of students receive either free or reduced priced meals at school. This is lower than the state average of 40.7%. Additionally, 8.5% of students are in the Special Education Program and 4.9% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table WSD.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	16%	40.7%
<b>Special Education Students</b>	8.5%	13.2%
<b>English Language Learners (ESL)</b>	4.9%	6.6%

Source: Iowa Department of Education<sup>14</sup>

## Administration and Staff

The school district has a superintendent, 16 principals, 11 assistant principals, and supportive staff. The school board is made up of a seven-member panel. There are a total of 2,229 employees with 936 of those are certified staff. District staff are required to perform emergency procedure training including annual online training and in-person building and director training. Email communications regarding district safety procedures and updates are consistently sent out. The district also has a number of additional departments and staff that may be available to implement hazard mitigation initiatives.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Students and families are included in regular emergency procedure training and notified of all emergencies through the ParentSquare Notification System which pushed email, phone, and text messages in a family's preferred language. The school district annually works with the Waukee Police Department to create age-appropriate training materials for active threat scenarios. Local police, EMS, and Fire Departments are allowed the use of school district buildings for training purposes.

<sup>14</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

Table WSD.3: Capability Assessment

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	Yes
	Continuity of Operations Plan	Yes
	Crisis Response Plan	Yes
	Strategic Plan	Yes
	Grant Manager	No
	Mutual Aid Agreement	No
	Other (if any)	
<b>Fiscal Capability</b>	Applied for grants in the past	Yes
	Awarded grants in the past	Yes
	Authority to levy taxes for specific purposes such as mitigation projects	No
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	Yes
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	Yes
	Hazard education or information program	No
	StormReady Certification	Yes
	Other (if any)	
<b>Drills</b>	Fire	4 / year
	Tornado	4 / year
	Intruder	1 / year
	Bus evacuation	2 / year
	Evacuation	0 / year
	Other (if any)	

Table WSD.4: Overall Capability

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Limited
Public support to implement projects	High
Time to devote to hazard mitigation	Moderate

## Plan Integration

### Grants and Funding

According to the local planning team, district funds are sufficient to pursue new capital projects. District funds have increased over recent years due to an increase in enrollment. WCSD has not applied for or been awarded any grants in the last five years.

### Crisis Response Plan

The school district updates their Crisis Response Plan in an ongoing-annual basis. The Crisis Response Plan discusses natural hazards of fire, tornado, and chemical spills, addresses shelter in place protocols, and identifies the following: scenarios requiring evacuation, critical evacuation routes, and sheltering locations.

## Future Development Trends

The major development trends having occurred in the last five years include the new Radiant Elementary School in 2019, the 2021 additions to Brookview Elementary, Eason Elementary, Vince Meyer Learning Center, the Timberline School Athletics building, the new build of Northwest High School, and the 2022 build of the Sugar Creek Elementary. Future construction plans for the school district include the Waukee CSD Natatorium in 2023, Trailridge School in 2023, Waterford Elementary in 2024, and North Middle School in 2025. All building codes, safe rooms, and backup generators have been considered for all new buildings planned. The school district gained 80 acres of land in 2020, 15 acres in 2022, and a district operation backup generator in 2022.

## Community Lifelines

### Transportation

According to the local planning team, there are no transportation routes of concern within the school district. The district leases buses from Durham Student Services which helped transport 6,270 students to and from school in the 2021-2022 school year.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are 79 chemical storage sites in Clive, Urbandale, Waukee, and West Des Moines that contain hazardous chemicals.<sup>15</sup> According to the planning team, if a chemical spill were to occur, officers and fire department officials would respond to secure the area while awaiting Des Moines Fire/Hazmat team and Dallas County Emergency Management to respond. An Anhydrous farm located between Waukee Middle School and Vince Meyer Learning Center is of most concern to the local planning team, however there are no known chemical spills to have occurred in the district.

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

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<sup>15</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022. <https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

**Table WSD.5: School Buildings Within One Mile of Chemical Storage Sites**

School Building	Address	# of Storage Sites Within One Mile
District Administration Office	560 SE University Ave Waukee, Iowa, 50263	3
Vince Meyer Learning Center	430 Ashworth Dr Waukee, Iowa, 50263	7
Grant Ragan Elementary School	645 NE Dartmoor Dr Waukee, IA 50263	1
Sugar Creek Elementary School	965 Ashworth Dr Waukee, Iowa, 50263	6
Waukee Elementary School	850 6th St Waukee, Iowa, 50263	7
South Middle School	2350 SE LA Grant Pkwy Waukee, IA 50263	1
Waukee Middle School	905 S Warrior Ln Waukee, Iowa, 50263	7
Prairieview School	655 SE University Ave Waukee, Iowa, 50263	2
Waukee High School	555 SE University Ave Waukee, Iowa, 50263	4
Northwest High School	655 10th St Waukee, Iowa, 50263	4
Brookview Elementary School	8000 EP True Pkwy West Des Moines, IA 50266	4
Woodland Hills Elementary School	1120 S 95th St West Des Moines, IA 50266	1

### Critical Facilities

The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

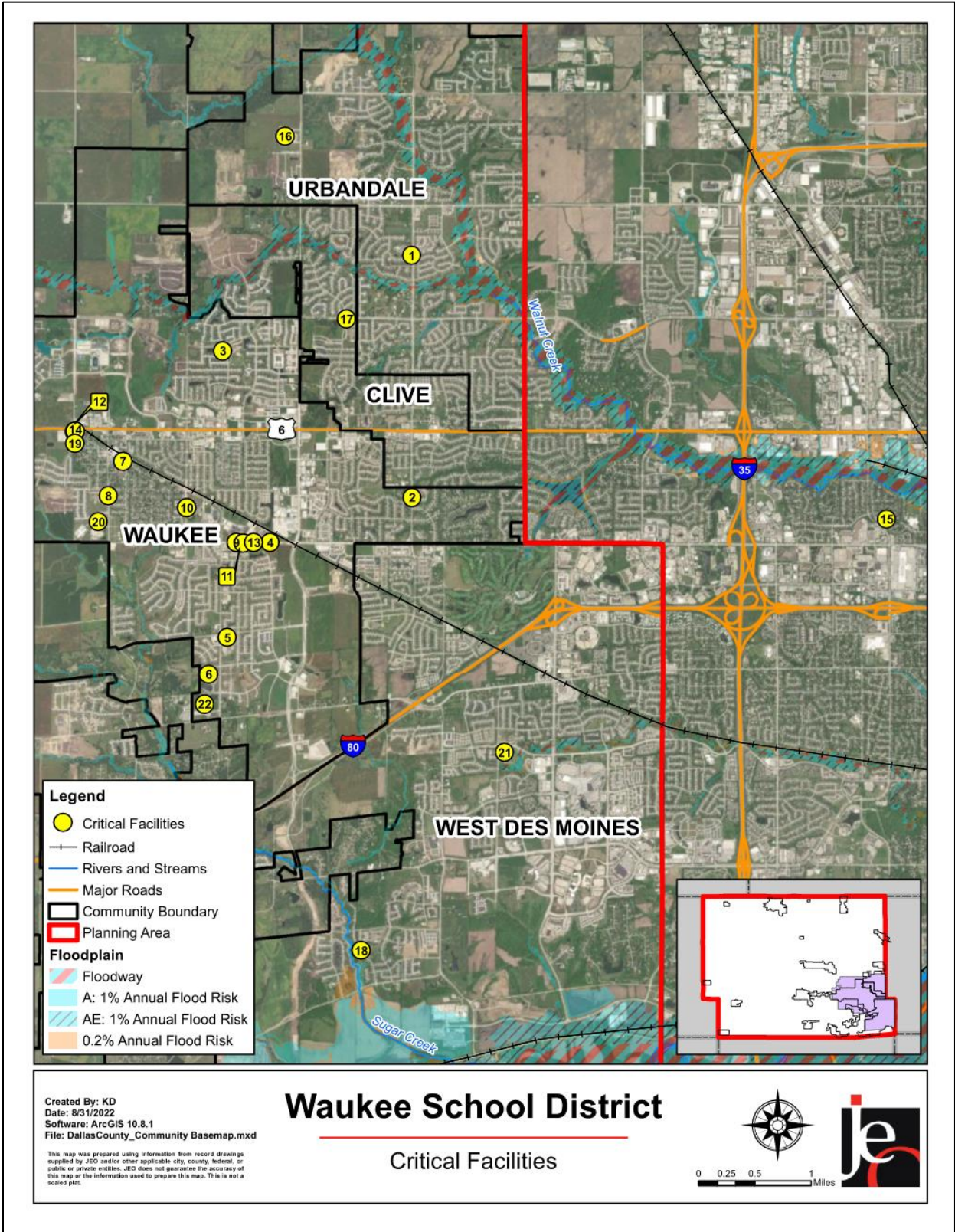
**Table WSD.6: Critical Facilities**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Walnut Hills Elementary	N	N	N
2	Eason Elementary School	N	N	N
3	Grant Ragan Elementary School	N	N	N
4	Prairieview School	N	N	N
5	South Middle School	N	N	N
6	Timberline School	N	N	N
7	Vince Meyer Learning Center	N	N	N
8	Waukee Elementary School	N	N	N
9	Waukee High School	N	N	N

## Section Seven: Waukee School District Profile

<b>CF #</b>	<b>Name</b>	<b>Mass Care (Y/N)</b>	<b>Generator (Y/N)</b>	<b>Floodplain (Y/N)</b>
<b>10</b>	Waukee Middle School	N	N	N
<b>11</b>	Waukee School District Administration Office	N	N	N
<b>12</b>	Waukee Stadium	N	N	N
<b>13</b>	WCSD Transportation	N	N	N
<b>14</b>	Sugar Creek Elementary	N	N	N
<b>15</b>	Maple Grove Elementary	N	N	N
<b>16</b>	Radiant Elementary	N	N	N
<b>17</b>	Shuler Elementary School	N	N	N
<b>18</b>	Woodland Hills Elementary School	N	N	N
<b>19</b>	Northwest High School	N	Y	N
	Northwest High School Stadium	N	Y	N
<b>20</b>	WCSD Operations	N	Y	N
<b>21</b>	Brookview Elementary School	N	N	N
<b>22</b>	Timberline Athletic Complex	N	N	N

Figure WSD.4: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the profile for the City of Waukee for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Terrorism & Civil Unrest**

While the Waukee School District has not experienced instances of terrorism and civil unrest in the past, this hazard has been identified as a concern based on the current culture of unrest nationwide. The schools perform intruder drills annually and the district updates its Crisis Response Plan on a yearly basis. The Crisis Response Plan includes protocols for sheltering in place.

### **Tornado and Windstorm**

Tornado and Windstorm was identified as a top hazard of concern for the school district. Maintaining the safety of students and staff is the top priority for the district, followed by ensuring the security of school district property. Over the past the years, three derechos and two spotted tornadoes have occurred on or near school property. The school district experienced approximately \$100,000 in damage from the 2021 derecho at the Northwest High School. To mitigate potential injuries or deaths due to tornado events, the school district has safe rooms or storm shelters at the following facilities: Eason Elementary, Brookview Elementary, Sugar Creek Elementary, Vince Meyer Learning Center, Prairieview School, and Northwest High School. The school district is implementing safe rooms and storm shelters at four other facilities in the next five years including Trailridge School, Waterford Elementary, Waukee Innovation and Learning Center, and North Middle School.

### **Transportation Incident**

The Waukee School District experiences a minimal amount of bus accidents over the past three years, with most occurrences being minor accidents with no injuries. The district experienced a major accident in 2019 when a bus driver had a medical emergency that incapacitated him. The accident resulted in the total loss of the bus, but no students were injured, and the driver recovered from his injuries and was cleared to resume driving.

## Mitigation Strategy

### Continued Mitigation and Strategic Actions

Mitigation Action	Safe Rooms
<b>Description</b>	Construct safe rooms adjacent to existing school buildings and/or incorporate safe rooms in the design of new school buildings.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$100,000 to \$500,000
<b>Funding</b>	HMA
<b>Timeline</b>	3-5 years
<b>Priority</b>	High
<b>Lead Agency</b>	Operations Department
<b>Status</b>	Safe rooms have been added during the additions to Vince Meyer Early Learning Center, Eason Elementary, Brookview Elementary, and Prairieview School, as well as in the new/remodeled Northwest High School and Sugar Creek Elementary. Planned additional safe rooms at Trailridge School, Waukee Innovation and Learning Center, Waterford Elementary, and North Middle School.

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The last update occurred between May and July 2022 when hazards of concern were added, building profiles updated, and new construction updated. The local planning team will include the Director of Instructional Services, the Chief Operating Officer, the Chief Financial Officer, the Executive Director of Human Resources, and the Executive Director of Communications. The plan will be reviewed annually, and the public will be included in the review and revision process via the school district's annual notification process.

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## School District Profile

# **West Central Valley School District**

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table WCV.1: West Central Valley School District Local Planning Team**

Name	Title	Jurisdiction
<b>Rusty Shockley</b>	Superintendent	West Central Valley Schools

## Location and Services

West Central Valley School District is located in Adair, Dallas, and Guthrie Counties, approximately 20 miles west of Des Moines. The district includes the communities of Dexter, Menlo, Redfield, and Stuart. The district's mission, as expressed on its website, states: "West Central Valley School District prepares students for success." The district is comprised of four schools: West Central Valley High School, West Central Valley Middle School, Dexter Elementary, and Stuart Elementary. The district office is located in Stuart. The predominant language spoken in the district is English, but Spanish and Gujarati are also spoken.

## Demographics

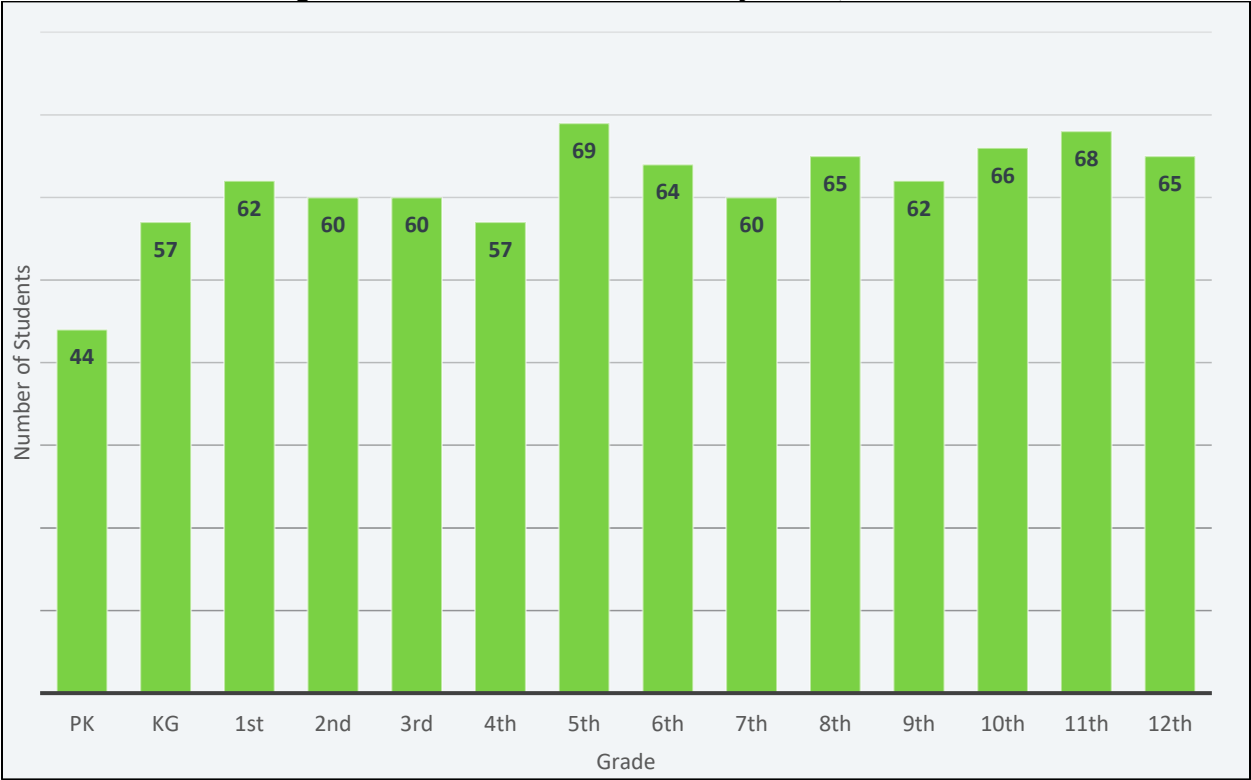
The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has fluctuated in recent years. The local planning team anticipates little change in enrollment projections. There are 859 students enrolled in the district.<sup>16</sup> Emergency instructions or notices are not available in languages other than English.

**Figure WCV.1: Student Population 2005-2022**



<sup>16</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

Figure WCV.2: Number of Students by Grade, 2021-2022



Source: Iowa Department of Education

## Section Seven: West Central Valley School District Profile

**Figure WCV.3: West Central Valley School District**

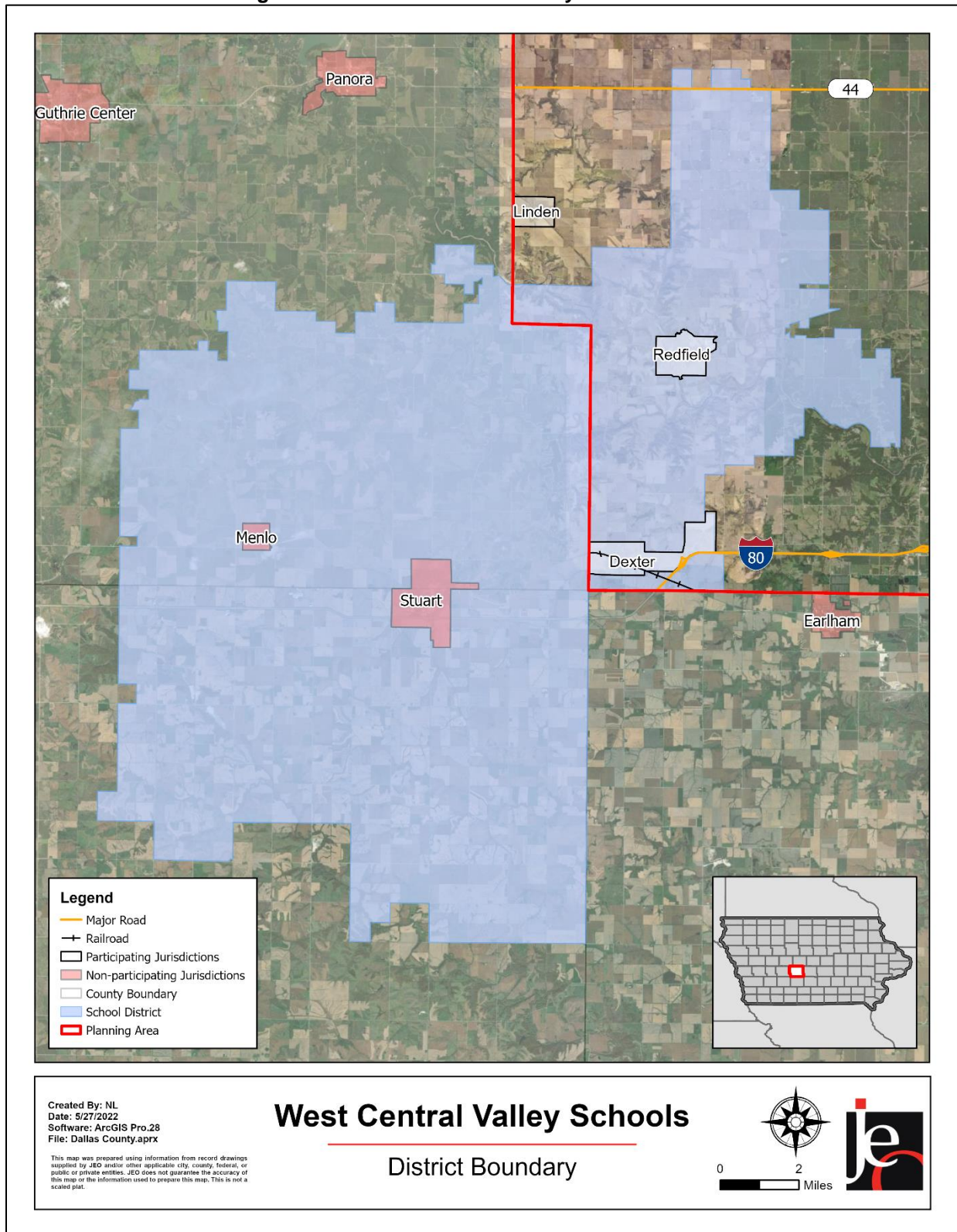


Figure WCV.2 indicates that the largest number of students are in 5<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> grades. The lowest number of students are in Pre-Kindergarten. According to the Iowa Department of Education, 42.7% of students receive either free or reduced priced meals at school. This is higher than the state average of 40.7%. Additionally, 13.6% of students are in the Special Education Program and 0.2% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table WCV.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	42.7%	40.7%
<b>Special Education Students</b>	13.6%	13.2%
<b>English Language Learners (ESL)</b>	0.2%	6.6%

Source: Iowa Department of Education<sup>17</sup>

## Administration and Staff

The school district has a superintendent, three principals, one assistant principal, and supportive staff. The school board is made up of a seven-member panel. There are 73 total teachers and staff members employed by the district. The district also has a number of additional departments and staff that may be available to implement hazard mitigation initiatives, including the administrative team, buildings and grounds department, SIAC Committee, building leadership teams, and technology department. District staff is trained in emergency procedures through drills and professional development training for teachers.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Students and families are educated in emergency procedures through drills, website updates, newsletters, text message communications, and reviews of the Emergency Operations Plan. Emergency notifications are delivered via text message, social media posts, and email alerts. These notifications are only available in English. The school district works with Stuart Police Department on emergency planning exercises.

**Table WCV.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	No
	Continuity of Operations Plan	No
	Crisis Response Plan	Yes
	Strategic Plan	No
	Grant Manager	No
	Mutual Aid Agreement	No

<sup>17</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

Survey Components/Subcomponents		Yes/No
	Other (if any)	
<b>Fiscal Capability</b>	Applied for grants in the past	No
	Awarded grants in the past	No
	Authority to levy taxes for specific purposes such as mitigation projects	Yes
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	Yes
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	Yes
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	
<b>Drills</b>	Fire	4 / year
	Tornado	4 / year
	Intruder	1 / year
	Bus evacuation	2 / year
	Evacuation	0 / year
	Other (if any)	

Table WCV.4: Overall Capability

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Limited
Staff/expertise to implement projects	Limited
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Limited

## Plan Integration

### Grants and Funding

According to the local planning team, district funds are sufficient to pursuing new capital projects and have increased slightly over recent years. The school district is beginning the process of completing a facilities study to look at buildings. A large portion of funds are dedicated through the General Obligation and Revenue Purpose Bonds for the High School and Athletic Complex. The school district has not applied for or been awarded any grants in the last five years.

### Emergency Operations Plan

The school district uses an Emergency Operations Plan to react to hazardous events. This EOP discusses natural hazards, addresses shelter in place protocols, and identifies critical evacuation routes and sheltering locations.

## Future Development Trends

Over the past five years, school district facilities have remained unchanged. The school district is beginning the process of a facilities study on district buildings. Any new construction to occur in the future will involve a safe room.

## Community Lifelines

### Transportation

According to the local planning team, concerns over transportation issues include high traffic roads within the district, winter driving conditions, and potential blockages due to chemical or gas leaks. The school district has been impacted by two bus accidents on high traffic roads in the past five years. Accidents have blocked Highway 6 with bad winter driving conditions and chemical leaks/spills have blocked the districts main roads. The West Central Valley School District owns 17 buses and transports approximately 475 students to and from school each day.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are 18 chemical storage sites in Dexter, Menlo, Redfield, and Stuart that contain hazardous chemicals. According to the local planning team, local law enforcement, fire, and EMS services would be first to respond to a chemical spill incident. Within the school district, Highway 6 and Division Street are of most concern and in the past a propane leak has occurred locally.

**Table WCV.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>MidAmerican Energy - Arbor Hill Substation</b>	1259 York Avenue Dexter, IA 50070	No
<b>Ferrellgas</b>	312 Adair Street Menlo, IA 50164	No
<b>Flint Hills Resources Menlo LLC</b>	3363 Talon Avenue Menlo, IA 50164	No
<b>SCCI – Menlo Quarry</b>	1298 Orange Avenue Menlo, IA 50164	No
<b>Glen-gery Corporation</b>	1519 Highway 6 Redfield, IA 50233	No
<b>Heartland Co-op Redfield East Agronomy</b>	30352 G Avenue Redfield, IA 50233	No
<b>Heartland Co-op Redfield Main Location</b>	513 1 Street Redfield, IA 50233	No
<b>Heartland Co-op - Redfield West</b>	15571 Hwy 6 Redfield, IA 50233	No
<b>Northern Natural Gas - Redfield Compressor Station</b>	24282 G Avenue Redfield, IA 50233	No
<b>Windstream Iowa Telecom - Redfield</b>	111 Thomas Street Redfield, IA 50233	No
<b>CenturyLink - Stuart CO</b>	121 N Gaines Street Stuart, IA 50250	No
<b>CenturyLink - Stuart Regen</b>	308 E Front Street Stuart, IA 50250	No

## Section Seven: West Central Valley School District Profile

<b>Growmark Inc. - Stuart Terminal</b>	1003 SW 7 <sup>th</sup> Street Stuart, IA 50250	No
<b>Landus Cooperative - Stuart</b>	215 S Madison Street Stuart, IA 50250	No
<b>Pelgas Inc</b>	405 E Front Street Stuart, IA 50250	No
<b>Stuart</b>	1155 Victor Avenue Stuart, IA 50250	No
<b>Stuart Distribution and Pre-Finish</b>	706 SW 8th Street Stuart, IA 50250	No
<b>Stuart Egg Farm</b>	2650 350th Road Stuart, IA 50250	No

Source: Iowa Department of Natural Resources<sup>18</sup>

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

**Table WCV.6: School Buildings Within One Mile of Chemical Storage Sites**

<b>School Building</b>	<b>Address</b>	<b># of Storage Sites Within One Mile</b>
<b>Redfield Middle School</b>	1375 High St Redfield, Iowa, 50233	3
<b>Stuart High School</b>	3299 White Pole Rd Stuart, Iowa, 50250	4
<b>Stuart Elementary</b>	320 NE 3rd St Stuart, Iowa, 50250	5
<b>District Office</b>	3299 White Pole Rd Stuart, Iowa, 50250	4

### Critical Facilities

The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

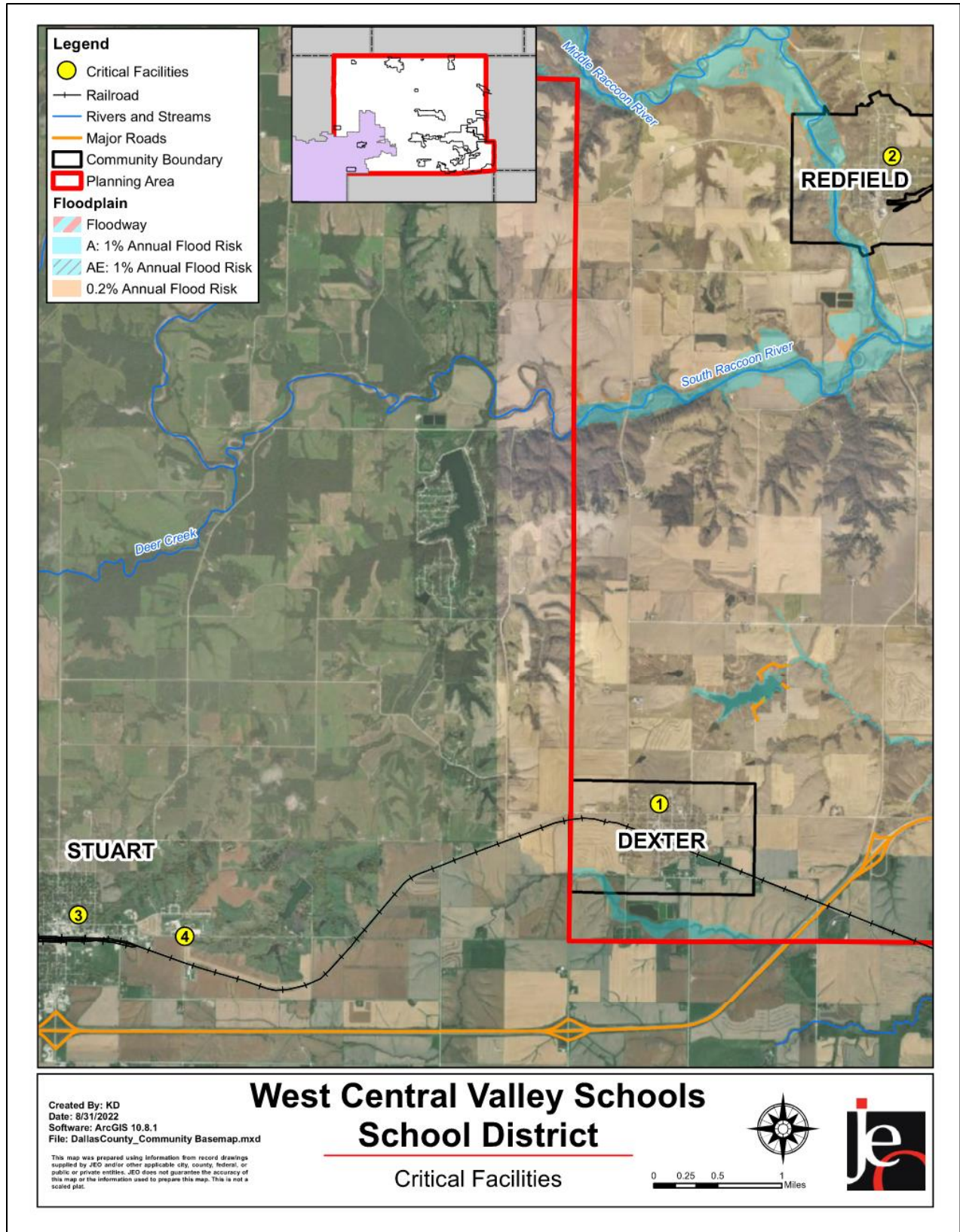
**Table WCV.7: Critical Facilities**

<b>CF #</b>	<b>Name</b>	<b>Mass Care (Y/N)</b>	<b>Generator (Y/N)</b>	<b>Floodplain (Y/N)</b>
1	Dexter Elementary School	Y	N	N
2	West Central Valley Middle School	Y	N	N
3	Stuart Elementary School	Y	N	N
4	West Central Valley High School	Y	N	N

**Figure WCV.4: Map of Critical Facilities**

<sup>18</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022. <https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

## Section Seven: West Central Valley School District Profile



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profiles for the City of Dexter and the City of Redfield for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### Severe Winter Storms

The safety of students, staff, and community are the main concerns for this hazard, according to the planning team. With the school district being a large rural district, severe winter storms can pose problems for the safety of the school district with the potential for bad road conditions. Yearly the school district experiences significant winter storms that impact the transportation ability of students, teachers, and staff due to the rural nature of the area. The winter storms have not caused structural damage to any critical facilities within the district.

### Tornado and Windstorm

Tornado and Windstorm was identified as a top hazard of concern for the school district. The Dexter and Redfield Schools are not equipped with high wind event rooms leading to potential safety issues for students and staff. The school district has implemented safe rooms at Stuart Elementary and the West Central Valley High School, however there are no sirens installed in the district.

### Transportation Incident

The West Central Valley School District is mostly concerned about the large rural location of the district. Many students are transported across a large area where the likelihood of transportation incidents is high. In the past, school district buses have had accidents.

## Mitigation Strategy

Mitigation Action	Dexter Elementary Saferoom Construction
<b>Description</b>	The construction of a saferoom is needed to protect students and staff in case of a tornado.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$320,000
<b>Funding</b>	Local funds, HMA
<b>Timeline</b>	3-6 years
<b>Priority</b>	High
<b>Lead Agency</b>	Superintendent
<b>Status</b>	Not started

Mitigation Action	Saferoom in Middle School - Redfield
<b>Description</b>	The construction of a saferoom is needed to protect students and staff in case of a tornado.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$400,000
<b>Funding</b>	Local funds, HMA
<b>Timeline</b>	3-6 years
<b>Priority</b>	High
<b>Lead Agency</b>	Superintendent
<b>Status</b>	Not Started

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent. The plan will be reviewed bi-annually. Students, staff, and parents will be included in the plan review and revision through social media updates, website notices, JMC notifications, and school board meetings.

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## School District Profile

# **Woodward-Granger School District**

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table WGS.1: Woodward-Granger School District Local Planning Team**

Name	Title	Jurisdiction
<b>Mark Lane</b>	Superintendent	Woodward-Granger Community School District
<b>Dave Smeltzer</b>	Director of Maintenance & Grounds	Woodward-Granger Community School District
<b>Cody Churchill</b>	Director of Technology	Woodward-Granger Community School District

## Location and Services

Woodward-Granger Community School District is located in Dallas, Boone, and Polk Counties, and serves the communities of Woodward and Granger. The district's mission, as expressed on its website, states: "Woodward-Granger CSD will build futures one student at a time through a supportive culture of high expectations." The district is comprised of four schools and a learning center: Woodward-Granger High School, Woodward-Granger Middle School, Woodward-Granger Elementary, Grandwood School, and Early Learning Center. The district allows open enrollment opt-in services to students from Perry, Madrid, Grimes, Ogden, Dallas Center, and Johnston. The district office is located in Granger. English is the predominant language, but Spanish is also spoken in the district. At this time emergency instructions or notices are not available in Spanish or other languages spoken beyond English.

## Demographics

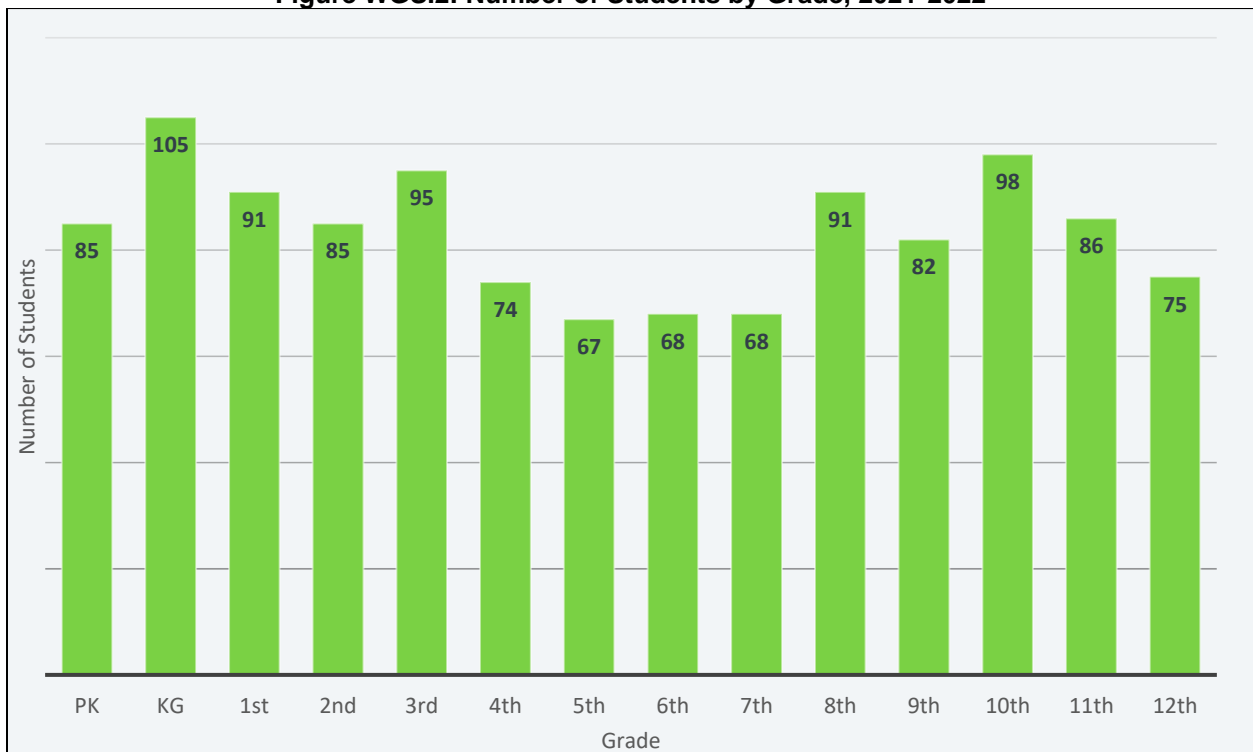
The following figure displays the historical student population trend starting with the 2005-06 school year and ending with the 2021-2022 year. It indicates that the student population has remained fairly steady over the past decade. According to the local planning team, enrollment is expected to increase over the next five years due to new housing developments in both Granger and Woodward. There are currently 1,170 students enrolled in the district.<sup>19</sup>

<sup>19</sup> Iowa Department of Education. December 2021. "2021-2022 Iowa Public School Building PreK-12 Enrollments by School, Grade, Race and Gender." <https://educateiowa.gov/document-type/public-school-building-prek-12-enrollment-grade-race-and-gender>.

**Figure WGS.1: Student Population 2005-2022**



**Figure WGS.2: Number of Students by Grade, 2021-2022**



Source: Iowa Department of Education

**Figure WGS.3: Woodward-Granger School District**

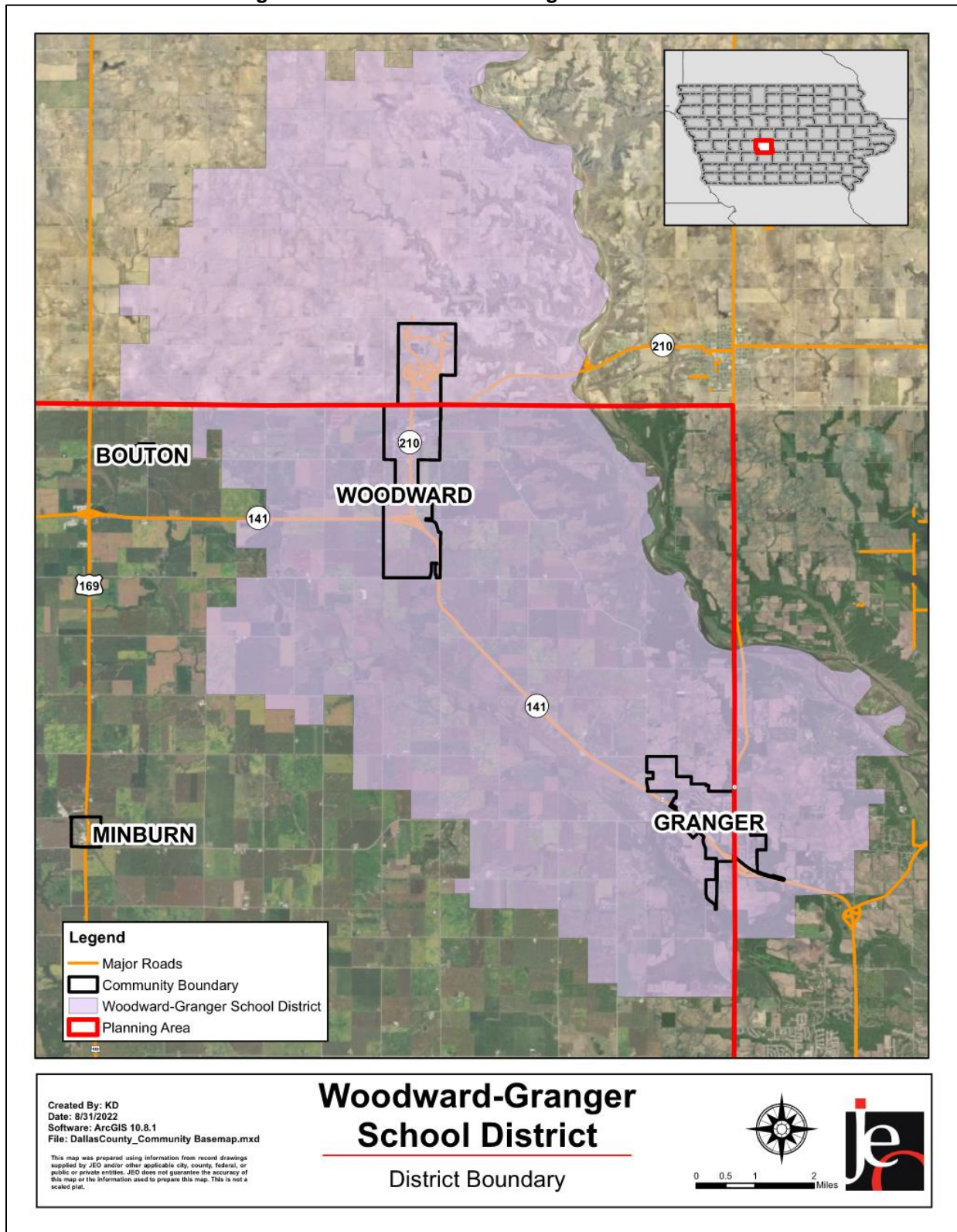


Figure WGS.2 indicates that the largest number of students are in Kindergarten, 3<sup>rd</sup>, and 10<sup>th</sup> grades. The lowest number of students are in 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> grades. According to the Iowa Department of Education, 13.3% of students receive either free or reduced priced meals at school. This is lower than the state average of 40.7%. Additionally, 13.4% of students are in the Special Education Program and 1.3% of students are English Language Learners. These particular students may be more vulnerable during a hazardous event than the rest of the student population.

**Table WGS.2: K-12 Student Statistics, 2021-2022**

	District	State of Iowa
<b>Free/Reduced Priced Meals</b>	13.3%	40.7%
<b>Special Education Students</b>	13.4%	13.2%
<b>English Language Learners (ESL)</b>	1.3%	6.6%

Source: Iowa Department of Education<sup>20</sup>

## Administration and Staff

The school district has 237 district employees, including a superintendent, four principals, and supportive staff. The school board is made up of a five-member panel. The district also has several additional departments and staff that may be available to implement hazard mitigation initiatives including Custodial, Maintenance, and Grounds crews, Technology staff, and a Safety Committee. The district annually trains staff on all emergency procedure developments.

## Capability Assessment

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the district's planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects. Students and families are educated on emergency procedures through specific course curriculum and participation in drills. The Infinite Campus student information management system is used during emergency events to notify parents and staff. The system has a built in translation feature for students, families, and staff that speak different languages. The school district is currently in beginning conversations to increase their emergency preparations through additional exercises and education with local fire and police departments.

**Table WGS.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Facility Improvements Plan	No
	Continuity of Operations Plan	No
	Crisis Response Plan	Yes
	Strategic Plan	No
	Grant Manager	No
	Mutual Aid Agreement	No
	Other (if any)	

<sup>20</sup> Iowa Department of Education. "Student Demographic Information." Accessed April 2022. <https://educateiowa.gov/data-reporting/education-statistics-pk-12>

Survey Components/Subcomponents		Yes/No
<b>Fiscal Capability</b>	Applied for grants in the past	Yes
	Awarded grants in the past	Yes
	Authority to levy taxes for specific purposes such as mitigation projects	Yes
	General Obligation Revenue or Special Tax Bonds	Yes
	Approved bonds in the past	Yes
	Flood Insurance	No
	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local school groups or non-profit organizations focused on environmental protection, emergency preparedness, access, and functional needs populations, etc. (Ex. Parent groups, Crisis Response Teams, etc.)	No
	Hazard education or information program	No
	StormReady Certification	No
	Other (if any)	
<b>Drills</b>	Fire	4 / year
	Tornado	4 / year
	Intruder	0 / year
	Bus evacuation	2 / year
	Evacuation	0 / year
	Other (if any)	

Table WGS.4: Overall Capability

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Limited
Public support to implement projects	Moderate
Time to devote to hazard mitigation	Limited

## Plan Integration

### Grants and Funding

According to the local planning team, district funds are currently limited to maintaining facilities and systems. Over the next three to five years the district will be working toward increasing their capacity to build a new school, but no large portion of funds have been dedicated to this project. Over recent years funding has increased due to increasing enrollment.

### Crisis Response Plan

The school district relies on a Crisis Response Plan to react to hazard events. The school district is currently working with local law enforcement and city governments to review and update the plan in 2022. The plan discusses natural hazards, addresses shelter in place protocols, and identifies the following: scenarios that require evacuation, critical evacuation routes, sheltering locations, and opportunities for mitigation following an event. It does not discuss gaps related to any particular hazard.

## Future Development Trends

Over the past five years the major developments to occur in the school district have been repair efforts on damage caused by derecho events. There are currently no plans for new construction or renovations within the district.

## Community Lifelines

### Transportation

According to the local planning team, Highway 141 runs through the district and is a major state road leading into the Des Moines metropolitan area. To date, no major accidents have impacted schools within the district. Woodward-Granger CSD owns 11 school buses and approximately 400 students are bused to and from school each day.

### Hazardous Materials

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are four chemical storage sites in Granger and Woodward that contain hazardous chemicals. No additional chemical storage facilities of concern were identified. According to the local planning team, in the event of a chemical spill the local fire department would be first to respond to the incident. Highways 141 and 17 are the most at risk if spills occur. No known chemical spills have impacted the school district.

**Table WGS.5: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>Ferrellgas</b>	12676 NW 102nd St Granger, IA 50109	No
<b>Granger Maintenance Building</b>	2111 West Kennedy Blvd Granger, IA 50109	No
<b>Landus Cooperative - Woodward</b>	110 Railway St Woodward, IA 50276	No
<b>Minburn Telecommunications Inc.</b>	108 W 2nd St Woodward, IA 50276	No

Source: Iowa Department of Natural Resources<sup>21</sup>

Using location data for district buildings and chemical storage sites, an analysis was run to determine which schools have chemical sites within a one-mile radius. The results of this analysis can be seen in the table below.

**Table ADM.6: School Buildings Within One Mile of Chemical Storage Sites**

School Building	Address	# of Storage Sites Within One Mile
<b>Woodward-Granger Middle School</b>	306 W 3rd St Woodward, Iowa, 50276	2
<b>Woodward-Granger High School</b>	306 W 3rd St Woodward, Iowa, 50276	2

<sup>21</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022.  
<https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

### Critical Facilities

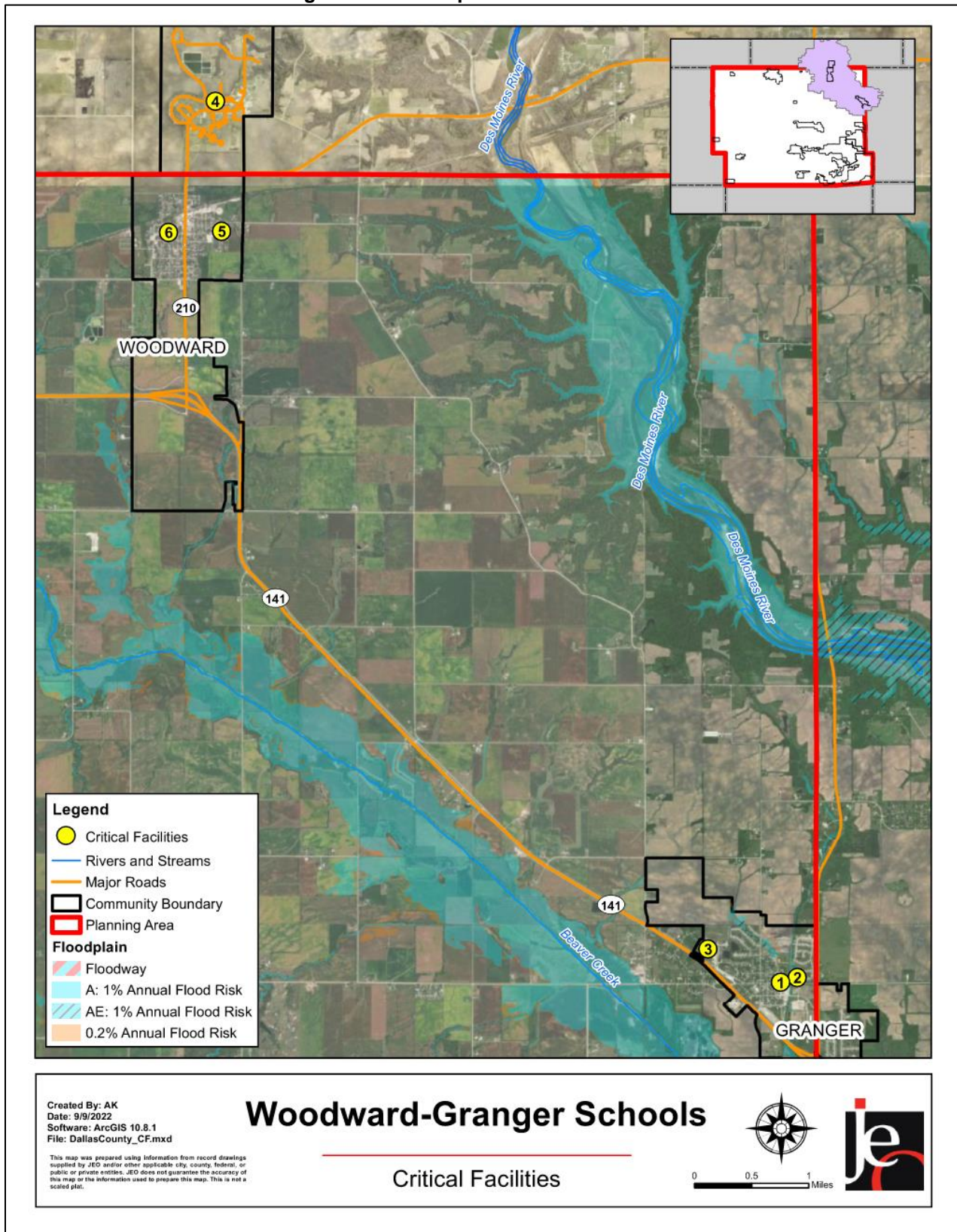
The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update.

The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table WGS.7: Critical Facilities**

CF #	Name	Mass Care (Y/N)	Generator (Y/N)	Floodplain (Y/N)
1	Woodward-Granger Early Learning Center	Y	N	N
2	Woodward-Granger Elementary School	Y	N	N
3	Grandwood Education Center	N	N	N
4	Woodward Academy	N	N	N
5	Woodward Granger Hawk Stadium	N	N	N
6	Woodward-Granger Middle School/High School	Y	N	N

Figure WGS.4: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profiles for the City of Granger and the City of Woodward for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Severe Thunderstorms (Includes Hail and Lightning)**

This hazard was identified as a top hazard of concern for the school district due to the potential loss of life or injury to staff and students and potential damage to district facilities. In the past the school district has experienced roof damage and damage to metal siding at the athletic facilities due to severe thunderstorms. To mitigate the impacts of a severe thunderstorm on the school district, the school computer servers are equipped with battery backups in the event of a power outage. The teachers and staff rely on cell phone alerts to keep track of incoming severe weather.

### **Severe Winter Storms**

Frequency and transportation impacts are the main concerns for this hazard, according to the planning team. With the school district split between Woodward and Granger, student travel can especially be impacted to winter weather conditions. In the past few years, the district has experienced normal Midwest winter storms which have caused delays and cancellations. The district's critical facilities have not experienced significant damage due to winter storms.

### **Tornado and Windstorm**

This hazard was identified as a top hazard of concern for the school district due to the potential loss of life or injury to staff and students and potential damage to district facilities. In the past the school district has experienced roof damage and damage to metal siding at the athletic facilities due to derecho winds. In the event of a tornado or windstorm that requires student, teachers, and staff to take shelter, the district uses interior bathrooms and locker rooms for sheltering.

### **Transportation Incident**

Transportation Incidents have been identified as a top hazard of concern by the school district due to the 10-mile distance between the two communities served. A significant number of students are transported by the school district each day. Past events of transportation incidents within the school district includes a student struck and killed by a school bus in the high school parking lot in the fall of 2020, a bus driver running a red light resulting in a collision in the summer of 2021, and a bus driver experienced a heart attack while transporting students that caused the bus to run off the 141-entry ramp into Woodward and stop in a bean field in the fall of 2021. The driver of the bus in the fall of 2021 passed away due to the heart attack and no students were injured. In an effort to reduce the occurrences of transportation incidents, the school district has reconfigured the high school parking lot for only one way traffic and school bus loading and unloading was relocated behind the high school. The school district has also halted a routine of buses stopping in Moran to change drivers in the fall of 2020. Now bus drivers remain in the same bus when driving between Woodward and Granger with no stops along the way.

## Mitigation Strategy

### Continued Mitigation and Strategic Actions

Mitigation Action	Safe Room
<b>Description</b>	Design and construct storm shelters and safe rooms in highly vulnerable areas. If the District decides to build in Granger, a safe room will be considered as part of the plan. It will be advertised within the community and open to anyone who needs it during inclement weather.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	\$750,000 to \$1,500,000
<b>Funding</b>	Local funds, HMA
<b>Timeline</b>	2-4 years
<b>Priority</b>	High
<b>Lead Agency</b>	Woodward-Granger Board of Education and the City of Granger
<b>Status</b>	No progress has been made on this mitigation action at this time.

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside planning documents (e.g., annual budgets, etc.), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin.

The local planning team is responsible for reviewing and updating this profile as changes occur or after a major event. The local planning team will include the Superintendent, Business Manager, Director of Maintenance and Grounds, and the Director of Technology. The plan will be reviewed annually, and the students, staff, and parents will be included in the review and revision process via the School Improvement Advisory Committee which meets quarterly.

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## District Profile

# Woodward Fire District

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

Table WFD.1: Woodward Fire District Local Planning Team

Name	Title	Jurisdiction
Matt Cavanaugh	Fire Chief	Woodward Fire District
Jessica Cavanaugh	EMS Captain	Woodward Fire District
Julie Hall	Secretary/Treasurer	Woodward Fire District
Bryan Beasley	Woodward Fire	Woodward Fire District
Kasey Morgan	Woodward Fire	Woodward Fire District

## Location and Geography

The Woodward Fire District covers the City of Woodward and surrounding areas, totaling 26,880 acres across 42 square miles. The rural areas are most at risk to fire.

## Demographics

See the City of Woodward and Dallas County profiles for regional demographic information. The Woodward Fire District serves approximately 1,700 residents.

## Future Development Trends

The past five years have seen new housing developments within the fire district. More housing developments are planned for the next five years, including a new housing development southeast of town, new ballfields north of 3<sup>rd</sup> and Main, and a Dollar General. For these new buildings and developments, builders must pass town buildings and inspections codes.

## Staffing

The Woodward Fire District is supervised by a fire chief and a five-member fire board who will oversee the implement of hazard mitigation projects. Other offices are listed below:

- Assistant Fire Chief
- Fire Captain
- EMS Captain
- Secretary/Treasurer
- Fire Marshal

## Capabilities

Due to the unique structure of fire districts, the typical capability assessment table was not used. The following table summarizes the district's overall capabilities. The Woodward Fire District will continue to utilize existing relationships with local, county, state, and federal agencies in the implementation of mitigation projects. According to the local planning team, district funds are focused on maintaining current facilities and systems rather than pursuing new capital projects. The fire district has applied for and been granted the Myrna Mayfield Grant, the DNR Matching Wildland Grant, and the Pioneer Grant during the last five years.

**Table WFD.2: Overall Capability**

<b>Overall Capability</b>	<b>Limited/Moderate/High</b>
<b>Financial resources needed to implement mitigation projects</b>	High
<b>Staff/expertise to implement projects</b>	Limited
<b>Community support to implement projects</b>	Moderate
<b>Time to devote to hazard mitigation</b>	Limited

## Plan Integration

Woodward Fire District has limited planning documents, which includes a Community Wildfire Protection Plan and Standard Operating Guidelines (SOGs). SOGs outline the district's response to a variety of different calls that could be received. The district will seek out and evaluate any opportunities to integrate the results of the current HMP into other planning mechanisms and updates.

### Community Wildfire Protection Plan (2014)

Woodward Fire District participated in the Saylorville Flood Plain Community Wildfire Protection Plan (CWPP), which was developed in 2014. The Saylorville floodplain is located along the Des Moines River. The purpose of the CWPP is to help effectively manage wildfires and increase collaboration and communication among organizations who manage fire. The CWPP discusses area-specific historical wildfire occurrences and impacts, identifies areas most at risk from wildfires, discusses protection capabilities, and identifies wildfire mitigation strategies.

## Community Lifelines

### Transportation

Major transportation corridors in the district include State Highway 210 and 2<sup>nd</sup> Street. The most traveled route is Highway 210, with an average of 3,400 vehicles daily, 126 of which are trucks.<sup>22</sup> Highway 141 is located within the district and is a route of concern for the local planning team. The nearest airport, Perry Municipal Airport, is located about 12 miles southwest of Woodward. Transportation information is important to hazard mitigation plans because it suggests possible evacuation corridors in the community, as well as areas more at risk of transportation incidents. Chemicals such as gas, diesel, and anhydrous ammonia are regularly transported along local routes, but no spills have occurred within the district recently. If evacuations were required, the district has identified two difficult locations: Locust Avenue on the East side of Football Field where there is only one access point for entry and exit and the Resource Center and Academy where many mobile and non-mobile individuals would need to be evacuated.

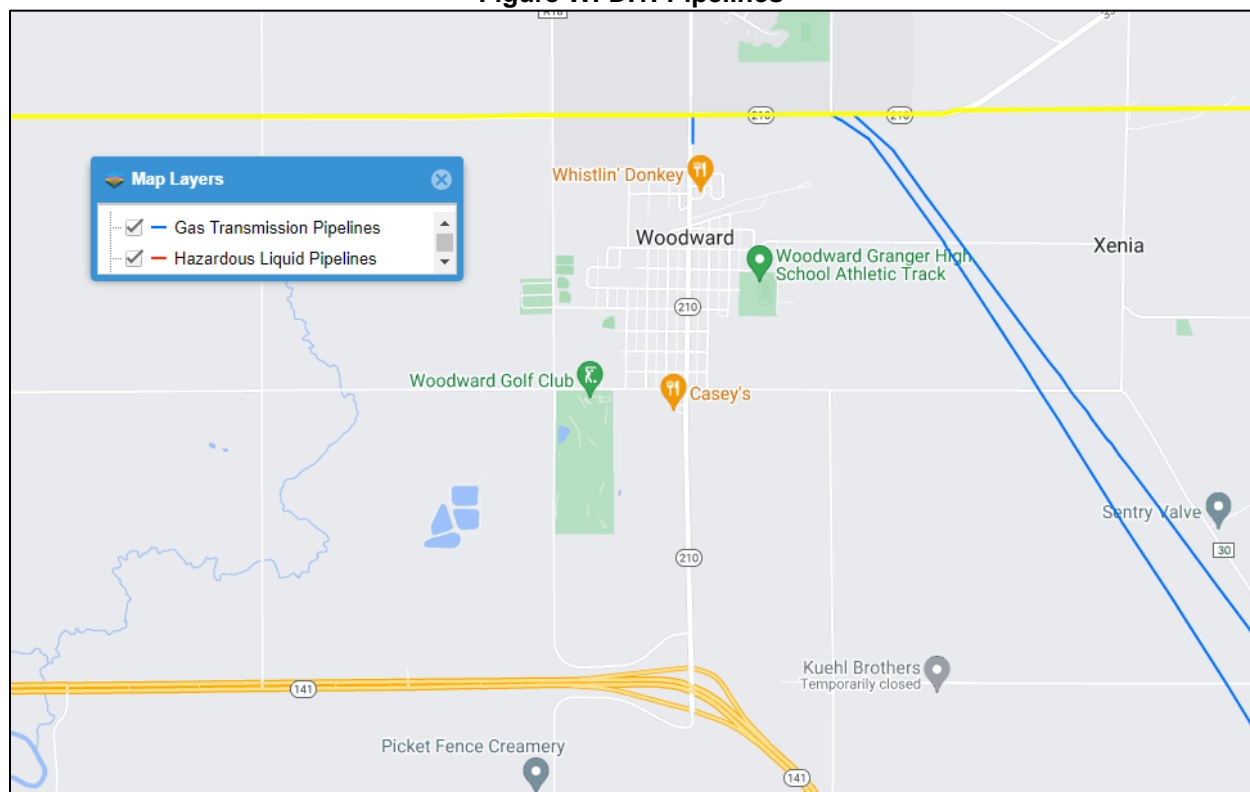
### Hazardous Materials

There are gas transmission pipelines that travel near Woodward and can be seen as blue lines in the figure below.

<sup>22</sup> Iowa Department of Transportation. 2020. "Iowa Traffic Data". Accessed May 2022.

<https://iowadot.maps.arcgis.com/apps/MapSeries/index.html?appid=0cce99afb78e4d3b9b24f8263717f910>.

**Figure WFD.1: Pipelines**



Source: National Pipeline Mapping System<sup>23</sup>

According to the Tier II System reports submitted to the Iowa Department of Natural Resources, there are two chemical storage sites in Woodward that contain hazardous chemicals. Additionally, the local planning team identified three locations, Heartland Cooperative, Bice Oil, and Casey's where chemicals are stored. The anhydrous chemicals located at the Heartland Coop are at highest risk if spills occur. If a spill occurs, the fire department has various response resources including an EMS unit, a fire engine, a hazmat trailer all equipped with peatmoss, and mutual aid agreements with surrounding communities. Training for chemical spill responses occurs once a year.

The first district has the following equipment: two fire engines, one ladder, one EMS truck, a mule truck, brush truck, tanker, hazmat trailer, and a command vehicle. The district provides public outreach and education efforts to the local school district for Fire Safety Week.

**Table WFD.3: Chemical Storage Sites**

Facility Name	Address	Located in Floodplain?
<b>Landus Cooperative - Woodward</b>	110 Railway Street	No
<b>Minburn Telecommunications Inc</b>	108 W 2nd Street	No

Source: Iowa Department of Natural Resources<sup>24</sup>

<sup>23</sup> National Pipeline Mapping System. 2022. "Public Viewer." Accessed April 2022. <https://pvnpm.phmsa.dot.gov/PublicViewer/>.

<sup>24</sup> Iowa Department of Natural Resources. 2022. "Emergency Response - Tier II Chemical Storage." Accessed April 2022. <https://facilityexplorer.iowadnr.gov/facilityexplorer/>.

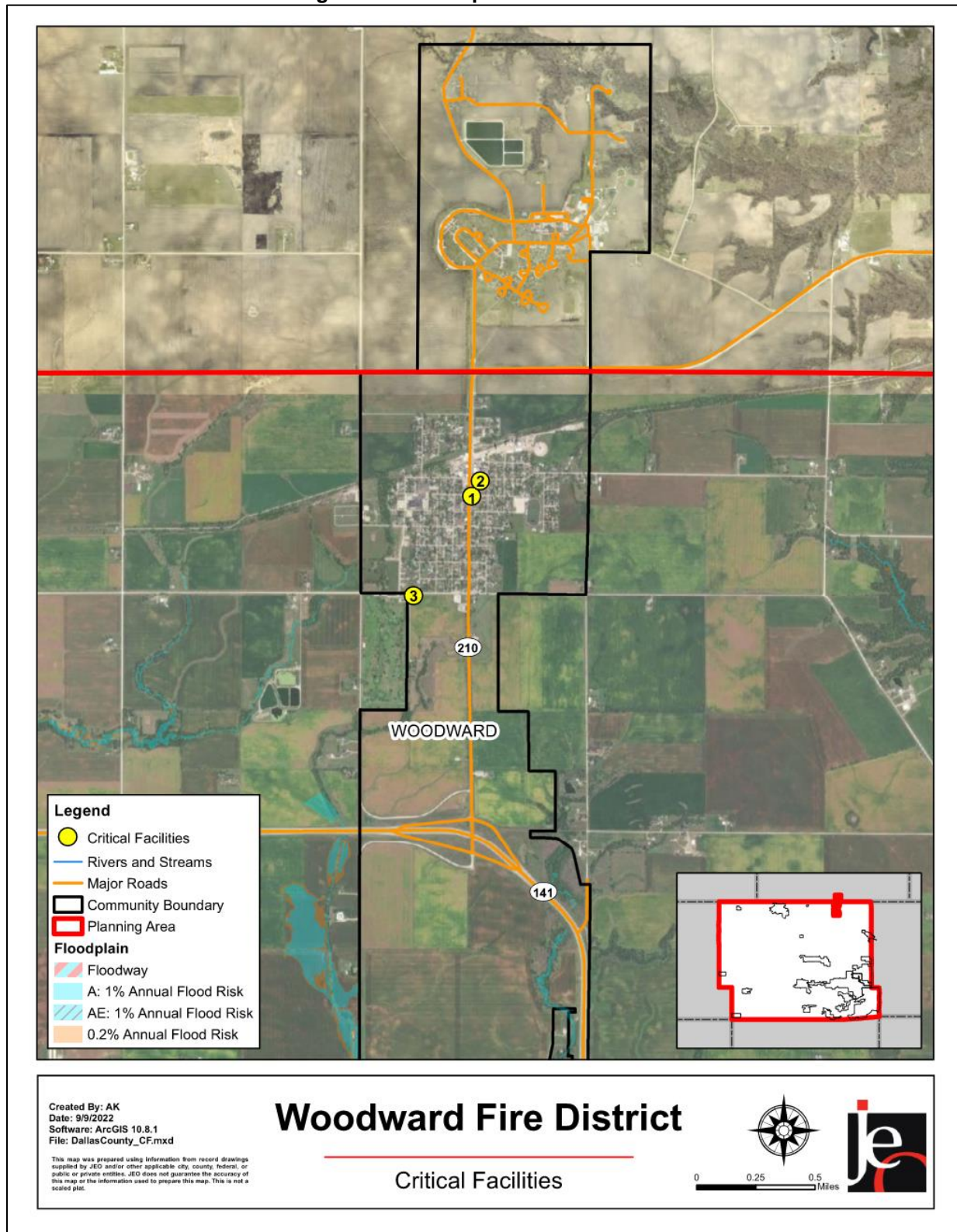
### Critical Facilities

The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table WFD.4: Critical Facilities**

<b>CF #</b>	<b>Name</b>	<b>Mass Care (Y/N)</b>	<b>Generator (Y/N)</b>	<b>Floodplain (Y/N)</b>
<b>1</b>	Fire Station	Y	Y	N
<b>2</b>	City Hall	N	N	N
<b>3</b>	Legion Hall	Y	N	N

**Figure WFD.2: Map of Critical Facilities**



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Historical Occurrences

See the community profile for the City of Woodward for historical hazard events.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as the relevant hazards for the jurisdiction. The selected hazards were prioritized by the local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities. For additional discussion regarding area-wide hazards, please see *Section Four: Risk Assessment*.

### **Grass and Wildland Fire**

Grass and Wildland Fires are a top hazard of concern for the fire district due to the frequency of farmland burn offs and the lack of wind breaks in the district. In the past, the fire district has experienced thousands of dollars of damage to farmlands and structural damages. The fire district does not have fire breaks around their critical facilities.

### **Severe Thunderstorms (Includes Hail and Lightning)**

This hazard was identified as a top hazard of concern for the fire district due mainly to the possibility of power outages and downed powerlines. Past damages that have occurred within the district included multiple day power outages, numerous downed powerlines, and flooded streets and basements. The fire district experienced a significant hailstorm in July 2021 that damaged district infrastructure. To reduce the potential hazards from severe thunderstorms, the fire district needs backup power generators at the Fire Station, City Hall, Police Station, and the Legion Hall. The fire district uses the county text alerts to get notices for severe weather.

### **Tornado and Windstorm**

Tornado and Windstorm was identified as a top hazard of concern for the fire district. This hazard may cause downed trees, damage to buildings, road blockages, or power outages. If damage to gas lines or cell towers were sustained district communication infrastructure could be impacted. The fire district has experienced a significant tornado in November 2005 and a derecho windstorm in August 2020. Both events caused infrastructure damage, blocked travel routes, and caused communication sources to be limited. The fire district does not have safe rooms or storm shelters within their facilities.

### **Transportation Incident**

The Woodward Fire District includes Iowa Highway 141, a highly trafficked road. Highway 141 has a high volume of semi-truck traffic and experiences numerous accidents each year. The highway is also a popular carpooling route and school route. In 2011 the highway experienced a carpooling accident that shut down traffic in both directions for an extended period of time. No chemical spills or other hazardous material spills have occurred that required the fire district's response.

## Mitigation Strategy

### New Mitigation and Strategic Actions

Mitigation Action	Backup Generators
<b>Description</b>	The fire district needs a backup station generator.
<b>Hazard(s)</b>	All hazards
<b>Estimated Cost</b>	Unknown
<b>Local Funding Source</b>	Grants/Fundraisers
<b>Timeline</b>	2-5 Years
<b>Priority</b>	Medium
<b>Lead Agency</b>	Fire Chief and Project Team Members
<b>Status</b>	Project has not started.

Mitigation Action	Roadside Safety Equipment
<b>Description</b>	Adding roadside safety equipment to the fire district's inventory will increase the district's ability to help the residents within their boundaries.
<b>Hazard(s)</b>	Grass/Wildland Fire, Transportation Incident
<b>Estimated Cost</b>	Unknown
<b>Local Funding Source</b>	Grants and Fundraisers
<b>Timeline</b>	2-5 Years
<b>Priority</b>	Medium
<b>Lead Agency</b>	Fire Chief and Project Team Members
<b>Status</b>	Project has not started

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside community planning documents (e.g., annual budgets and Capital Improvement Plans), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin, including CDBG, Water Sustainability Fund, Revolving State Fund, or other identified funding mechanisms.

The fire department's planning team is responsible for reviewing and updating this planning profile as changes can occur before or after a major event. The district's planning team includes the Fire Chief and the members of the mitigation planning team. The plan will be reviewed annually, and the public will be involved in the reviews and revisions via social media, website updates, and board member meetings.

## District Profile

# Xenia Rural Water District

**Dallas County  
Hazard Mitigation Plan 2023**

## Local Planning Team

**Table XRW.1: Xenia Rural Water District Local Planning Team**

Name	Title	Jurisdiction
Corey Iben	HR & Administration Manager	Xenia Rural Water District

## Location and Geography

Xenia Rural Water District supplies water to the Cities of Bouton, Linden, and Minburn, as well as the majority of rural Dallas County. Xenia was established in 1977, with water service beginning in 1982. Xenia provides potable water service to residents of Dallas County that are not served by a municipal water service. There are approximately 3,700 people served.

## Capability Assessment

Due to the unique structure of water districts, the typical capability assessment table was not used. The following table summarizes the district's overall capabilities. Xenia Rural Water will continue to utilize existing relationships with local, county, state, and federal agencies in the implementation of mitigation projects.

**Table XRW.2: Overall Capability**

Overall Capability	Limited/Moderate/High
Financial resources needed to implement mitigation projects	Moderate
Staff/expertise to implement projects	Limited
Public support to implement projects	Limited
Time to devote to hazard mitigation	Moderate

## Future Development Trends

In the last five years, Xenia has added service to rural subdivisions and subdivisions within the City of Adel. Additional internal growth is planned for the next five years. There are no plans on any new elevated storage currently. If growth does warrant, new storage may be added.

## Critical Infrastructure

Xenia Rural Water District owns a water treatment plant located at 26725 150<sup>th</sup> St, Woodward. Xenia's business office is located at 23998 141<sup>st</sup> St., Bouton.

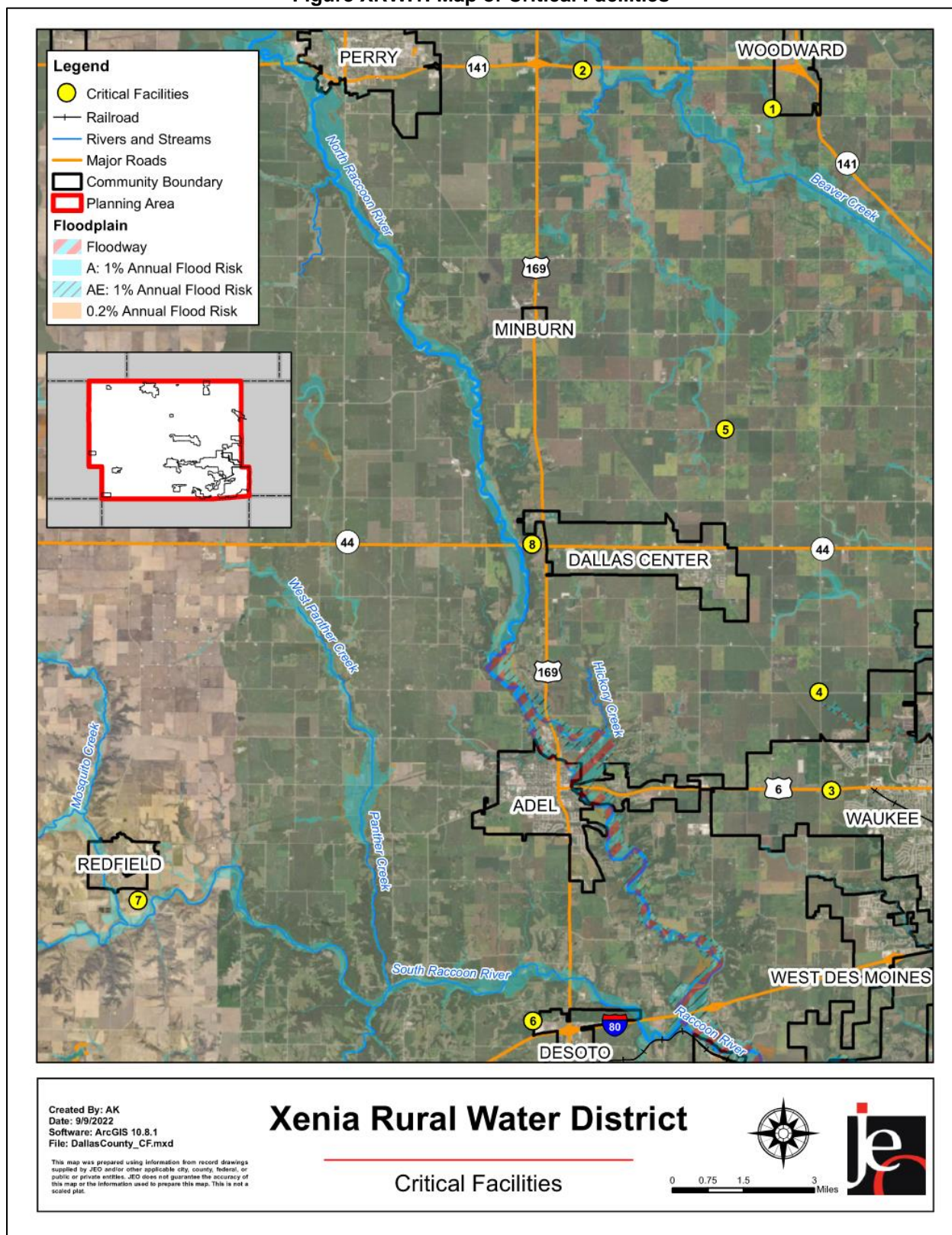
### Critical Facilities

The local planning team identified critical facilities that are vital for disaster response, public shelter, and essential for returning the jurisdiction's functions to normal during and after a disaster per the FEMA Community Lifelines guidance. Critical facilities were identified during the original planning process and updated by the local planning team as part of this plan update. The following table and figure provide a summary of the critical facilities for the jurisdiction.

**Table XRW.3: Critical Facilities**

<b>CF #</b>	<b>Name</b>	<b>Mass Care (Y/N)</b>	<b>Generator (Y/N)</b>	<b>Floodplain (Y/N)</b>
<b>1</b>	Woodward Water Treatment Plant	N	Y	Y (1%)
<b>2</b>	Office	N	Y	N
<b>3</b>	West Hickman Pump Station	N	Y	N
<b>4</b>	Waukee Pump Station	N	Y	N
<b>5</b>	Dallas Center Pump Station	N	N	N
<b>6</b>	De Soto Pump Station	N	Y	N
<b>7</b>	Dexter Pump Station	N	Y	N
<b>8</b>	Hwy 44 Pump Station	N	N	N

Figure XRW.1: Map of Critical Facilities



\*Floodplain maps were created based on the available FIRM data at the time. Updated effective FIRM data was scheduled to be available on December 15, 2022. Please refer to FEMA's Flood Map Service Center for the current FIRM information.

## Governance

Xenia Rural Water District is governed by a Board of Directors consisting of seven members. Revenue is generated through water sales. Positions within the district include:

- General Manager
- HR & Administration Manager
- Controller
- Distribution Manager
- Supply & Treatment Manager
- Water Technicians
- GIS Technician
- Mechanic
- Construction Operators
- Treatment Plant Operators
- Customer Service Representatives
- Meter Reader
- Custodian

## Plan Integration

Xenia Water District has an emergency response plan that covers their hazard mitigation plan. This plan fully all remote sites. Current protective measures, redundancies, and issue correction procedures are outlined within the plan.

## Hazard Prioritization

The hazards discussed in detail below were selected by the local planning team from the county hazard list as relevant hazards for the district. The local planning team prioritized the selected hazards based on historical hazard occurrences, potential impacts, and the district's capabilities. For more information regarding regional hazards, please see *Section Four: Risk Assessment*.

### Human Infectious Diseases

The major concern associated with this hazard is if there is an outbreak, such as Covid, it could impact personnel staffing for the district, thereby affecting its ability to operate the water system effectively. The water district has not experienced any large outbreaks within the organization. However, with only 28 staff members, any significant outbreak that results in a large number of employees being unable to work could cause a major problem for the district.

### Infrastructure Failure

The local planning team identified this hazard of concern due to the possibility of damage or failure to district facilities. Infrastructure failure could cause interruptions of service to the district's members. According to the district's planning team, Xenia experienced a water main break that caused 20 homes and businesses to be without water in June of 2018. The main break was caused by the erosion of the banks of the river due to flooding along the Raccoon River north of Adel that cause the main to pull apart. Temporary piping was installed to restore service until the water line could be replaced. After floodwaters receded, the temporary pipes were replaced with new permanent pipe and the total cost of the repair was \$19,000. Depending on the area the main break occurred, the amount of people impacted could have increased. To avoid infrastructure failure, the erosion of the river and stream banks throughout the district are routinely checked to ensure the pipeline is not exposed or in danger of becoming exposed. If the depth of the pipe

becomes shallow, the water lines are re-bored and placed at a proper depth to avoid future risks or impacts to the lines.

### Severe Winter Storms

Severe winter storms are a regular part of the climate and weather for the region. According to the NCEI, there were 79 winter storm events in Dallas County from 1996 to 2021. Severe winter storms include blizzards, ice accumulation, heavy snow, and winter storms. These storms can cause power outages during bitterly cold temperatures, road closures, and economic impacts. Severe storms can take out power services, impacting the treatment plant and pumping stations. Most sites have onsite backup power generators, and some sites are set up for portable units. Severe weather can also impact personnel's ability to access these sites. Over the past few years, the water district has not experienced any impacts from a severe winter storm that resulted in financial impacts to their services. Xenia Water District has a portable generator that can be taken to sites that lose power during a storm. The larger and more important sites have onsite backup generators in place. Actions have been taken to reduce future risks and impacts from water storms.

## Mitigation Strategy

### New Mitigation and Strategic Actions

Mitigation Action	Backup Generators
Description	Provide backup generators where needed.
Hazard(s)	All hazards
Estimated Cost	\$75,000+
Funding	General Budget
Timeline	2-5 years
Priority	Medium
Lead Agency	Xenia Rural Water District
Status	Not started

Mitigation Action	Bank Stabilization
Description	Stabilize banks along streams and rivers; this may include, but is not limited to: reducing bank slope, addition of riprap, installation of erosion control materials/fabrics
Hazard(s)	Infrastructure Failure, Flooding
Estimated Cost	\$50,000
Funding	General Budget
Timeline	2-5 years
Priority	Medium
Lead Agency	Xenia Rural Water District
Status	Not started

## Plan Maintenance

Hazard Mitigation Plans should be living documents and updated regularly to reflect changes in hazard events, priorities, and mitigation actions. These updates are encouraged to occur after every major disaster event, alongside community planning documents (e.g., annual budgets and Capital Improvement Plans), during the fall before the HMA grant cycle begins, and/or prior to other funding opportunity cycles begin, including CDBG, Water Sustainability Fund, Revolving State Fund, or other identified funding mechanisms.

The water district's planning team is responsible for reviewing and updating this planning profile as changes can occur before or after a major event. The plan will be reviewed bi-annually and as needed.

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