



## 2 PLANNING AREA PROFILE AND CAPABILITIES

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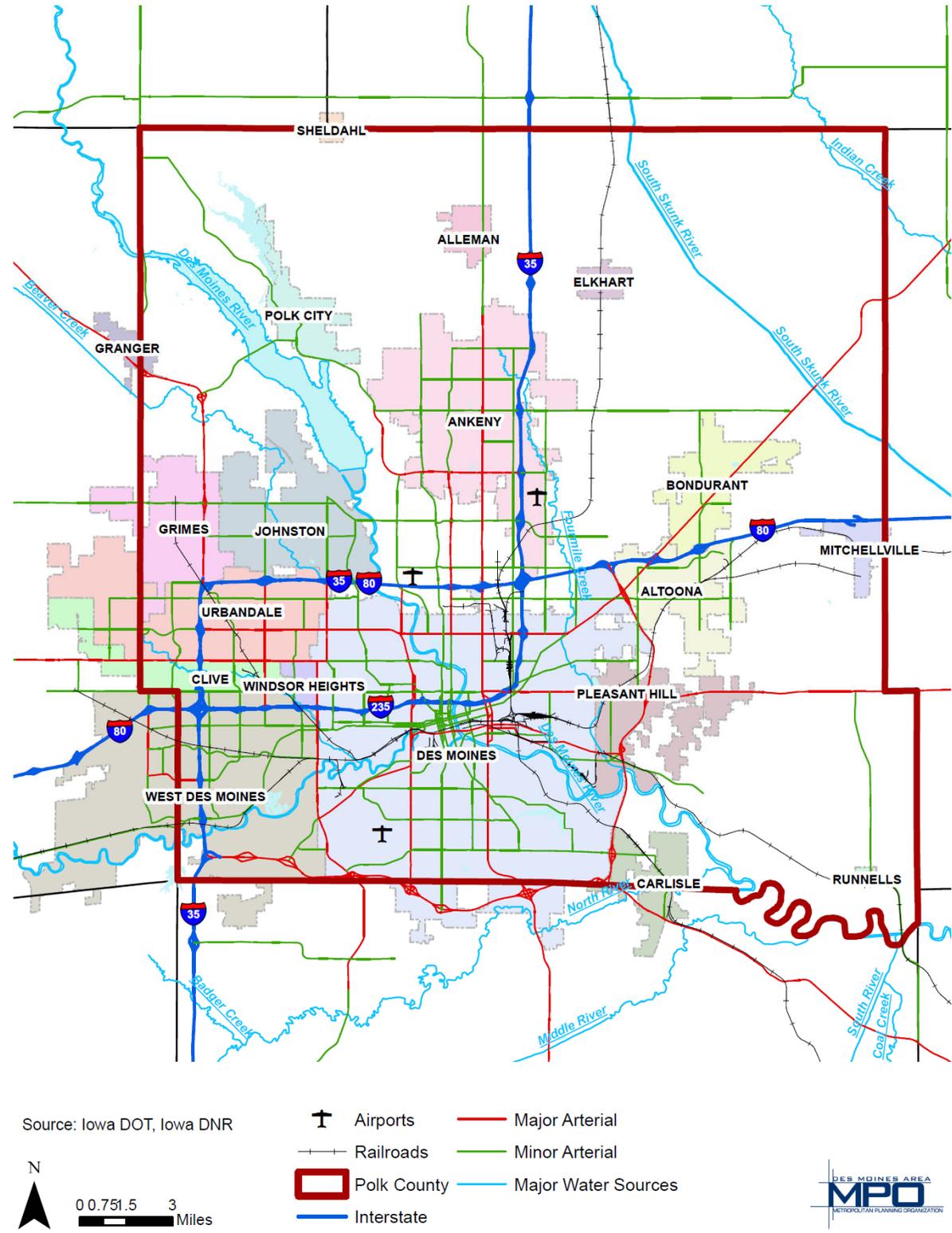
This chapter provides a general profile of Polk County followed by individual sections for each participating jurisdiction. The sections for each jurisdiction provide an overview profile as well as details on existing capabilities, plans, and programs that enhance their ability to implement mitigation strategies.

## 2.1 Polk County Planning Area Profile

**Figure 2.1** provides a map of the Polk County planning area. The planning area boundaries include all portions (including portions in adjacent counties) of the city limits of the following incorporated cities: Alleman, Altoona, Ankeny, Bondurant, Clive, Des Moines, Elkhart, Grimes, Johnston, Mitchellville, Pleasant Hill, Polk City, Runnells, Urbandale, West Des Moines and Windsor Heights. The planning area also includes the Polk County portion only of the following multi-county cities: Carlisle, Granger, Norwalk and Sheldahl.

As of 2017, the United States Census Bureau estimates the total Polk County population to be 481,830, which has grown 11.89 percent since 2010. The population growth rate is much higher than the state average rate of 3.26 percent and is also higher than the national average rate of 5.5 percent. Polk County median household income is \$61,684 in 2012-2016 and has grown by 9.97 percent since 2010. The income growth rate is slightly less than the state average rate of 11.66 percent and is higher than the national average rate of 6.57 percent. Polk County median house value is \$161,100 in 2012-2016 and has grown by 7.62 percent since 2010. The house value growth rate is lower than the state average rate of 11.41 percent and is more than the national average, which has decreased at a rate of 1.96 percent.

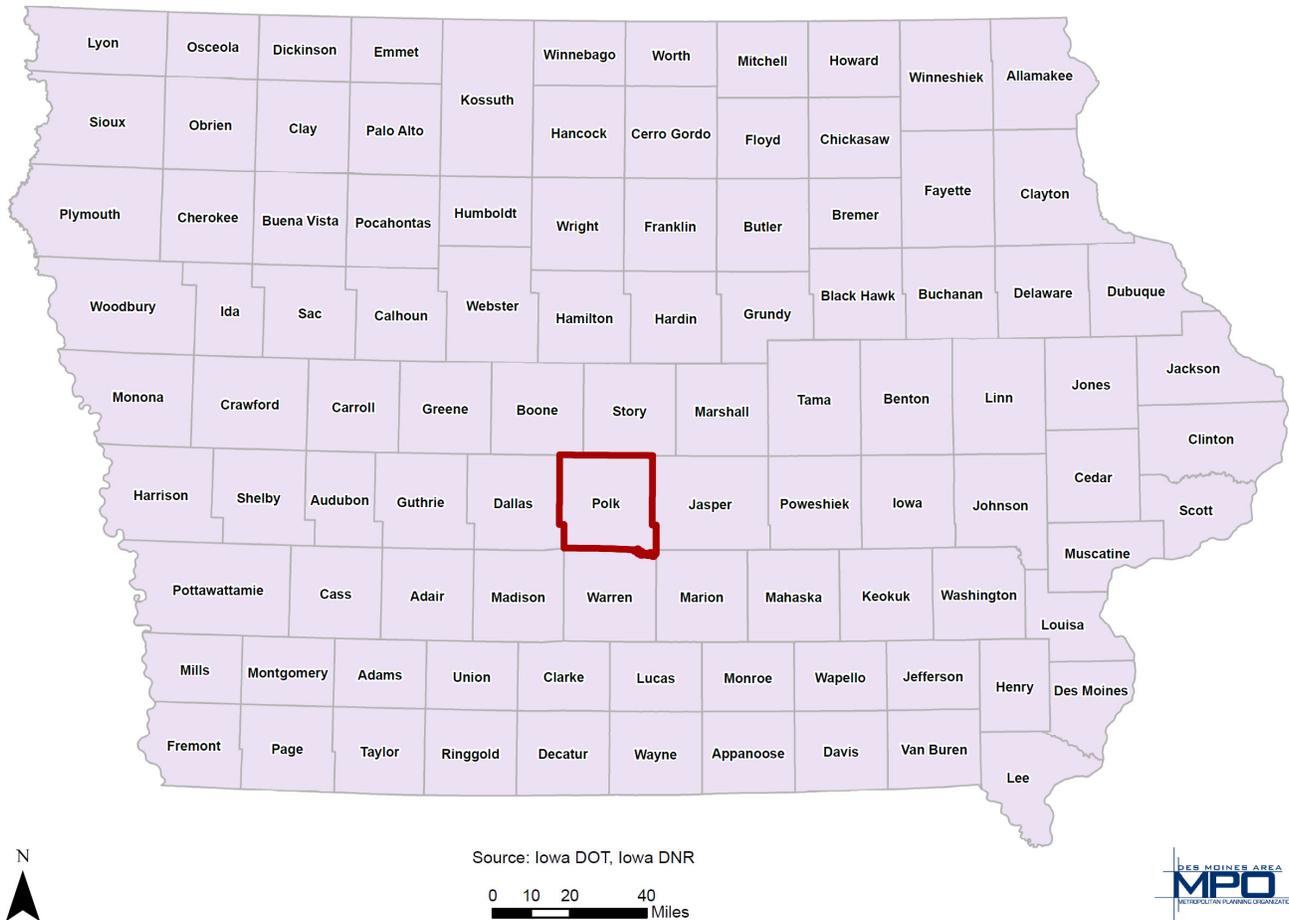
Figure 2.1. Polk County Planning Area



## 2.1.1 Geography, Geology and Topography

Polk County, Iowa is home to Iowa’s capital city, Des Moines, and is located just a few miles southwest of the center of the State. Polk County has 573.79 square miles of land area and 17.74 square miles of water area.

**Figure 2.2. Location of Polk County in the State of Iowa**



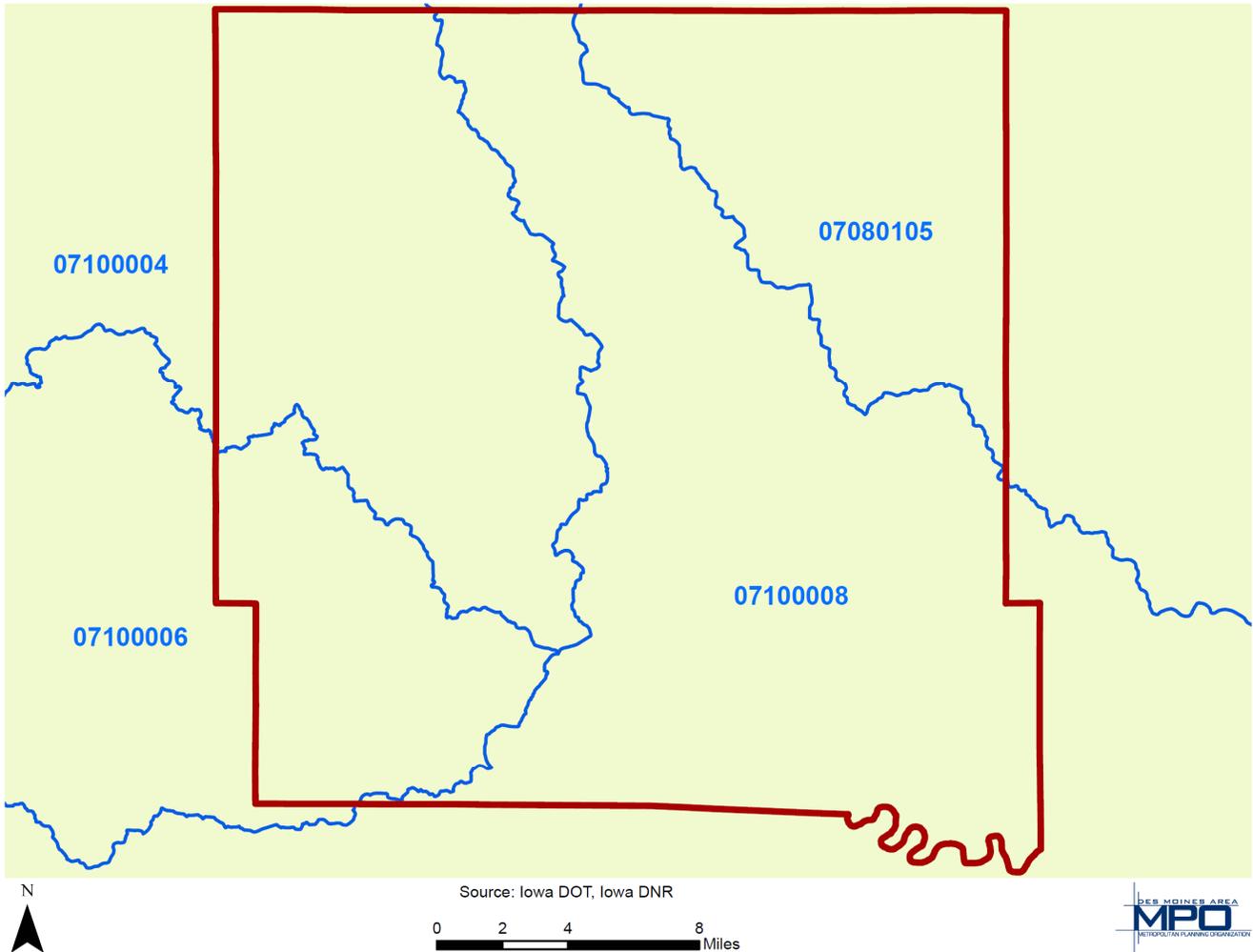
Much of Polk County is still mostly rural with the primary land use being agriculture. However, the Des Moines metro area is continuing to move northward and eastward into the rest of the County at an increasing rate, leading to more urban growth in the County. This has resulted in the development of many rural acreage properties and several subdivisions in previously rural areas. In addition, growth is occurring in other cities in Polk County that are outside of the Des Moines metropolitan area. Development along the I-35 north corridor is also changing the rural character of that portion of the county.

Polk County crosses 4 watersheds. A list of these watersheds with the cities contained within each is provided below:

- 1) South Skunk (07080105)
  - Elkhart
  - Mitchellville
  - Unincorporated Polk County
- 2) North Raccoon (07100006)
  - West Des Moines
  - Urbandale
  - Clive
  - Windsor Heights
  - Grimes
  - Granger
  - Polk City
  - Alleman
  - Sheldahl
  - Unincorporated Polk County
- 3) Middle Des Moines (07100004)
  - Des Moines
  - Johnston
  - Unincorporated Polk County
- 4) Lake Red Rock (07100008)
  - Ankeny
  - Altoona
  - Carlisle
  - Bondurant
  - Pleasant Hill
  - Runnells
  - Unincorporated Polk County

**Figure 2.3** shows the four watersheds in Polk County.

Figure 2.3. Polk County, Iowa Watersheds (Polk County is red square)



The most extensive geological deposits in Polk County are those of glacial origin. The most recent of these was deposited by the Cary substage of the Wisconsin glacier about 12,000 to 13,500 years ago. This glacier deposited calcareous, loamy material 30 to 60 feet thick over the northern four-fifths of the county. Two other glaciers, the Kansan and Nebraskan, covered all of Polk County much earlier in the Pleistocene period. The till deposited by these glaciers is exposed in the southern part of the county. It can be found on the steeper side slopes but has been covered on the upland divides by a deposit of loess. The loess deposits are found in the same areas as the Kansan and Nebraskan till but most commonly on the rounded upland divides rather than the steep side slopes. The loess deposits are silty and are free of sand and gravel. They were deposited by the wind. In contrast, the glacial material contains many sand and gravel particles and some large boulders.

Alluvial materials are found in general. These are water-deposited materials that range from gravel to silty clay in texture. Some of the material was glacial outwash deposited as the glacial ice was melting. In other areas the material was deposited by overflowing streams.

The entire county is underlain by bedrock of the Des Moines group, a shale formation of the Pennsylvanian system. This shale bedrock contains some thin seams of coal and some interbedded limestone or sandstone. Most of the bedrock is buried beneath several feet of glacial till, loess, or stream deposited material. The unweathered bedrock is predominately acid, yellow or gray, silty or clayey shale. The bedrock formations are exposed on a few slopes in the southern part of the county.

The uplands in the northern four-fifths of the county are, for the most part, nearly level to undulating, though there are some steeper areas along the major streams. This part of the county was covered by glacial material that has, in most places, been altered very little since the time of glaciation. The southern part of the county is much rougher and hillier than the northern part, and the glacial material is older and has been cut up extensively by streams. The river valleys are 1 to 3 miles wide, and there are many tributary streams.

## 2.1.2 Climate

The climate of Polk County typifies central Iowa with wide seasonal fluctuations in temperature and precipitation due to its location in the humid continental climate (Koppen Dfa). The average annual temperature is 48 degrees Fahrenheit (F.) with an average high in July of 86 degrees F. and average low in January of 14 degrees F. The annual precipitation averages 36 inches. Of this, 63 percent or 22 inches fall during the growing season from April to September. An average of 35 inches of snowfall occurs each winter (National Oceanic and Atmospheric Administration, 2018).

## 2.1.3 Population/Demographics maximize

According to the 2016 U.S. Census's Annual Population Estimates, the population of Polk County was 459,159, up 6.6 percent from the 2010 population of 430,640. **Table 2.1** provides the populations for each city and the unincorporated county for 2010 and 2016 with the number and percent change. The unincorporated areas population was determined by subtracting the populations of the incorporated areas from the overall county population. As a result, the unincorporated county populations are not completely accurate since portions of some of the incorporated areas overlap into adjacent counties.

**Table 2.1. Polk County Population 2012-2016 by City**

Jurisdiction	2010 Population	2016 Population	2010-2016 # Change	2010-2016 % Change
Alleman	432	499	67	15.51%
Altoona	14,541	16,692	2,151	14.79%
Ankeny	45,582	53,413	7,831	17.18%
Bondurant	3,860	5,079	1,219	31.58%
Carlisle*	3,876	4,031	155	4.00%
Clive*	15,447	17,022	1,575	10.20%
Des Moines*	204,220	212,859	8,639	4.23%
Elkhart	683	815	132	19.33%
Granger*	1,244	1,461	217	17.44%
Grimes*	8,246	10,422	2,176	26.39%
Johnston	17,278	19,491	2,213	12.81%
Mitchellville*	2,254	2,271	17	0.75%
Norwalk*	8,941	9,944	1,003	11.22%
Pleasant Hill	8,785	9,406	621	7.07%
Polk City	3,418	4,115	697	20.39%
Runnells	507	514	7	1.38%
Sheldahl*	319	249	-70	-21.94%
Urbandale*	39,463	41,578	2,115	5.36%
West Des Moines *	56,609	61,624	5,015	8.86%
Windsor Heights	4,860	4,980	120	2.47%
<b>Polk County Total</b>	<b>430,640</b>	<b>459,159</b>	<b>28,519</b>	<b>6.62%</b>

Source: U.S. Bureau of the Census, 2012-2016 American Community Survey 5-Year Estimates \*population includes the portions of these cities in adjacent counties

According to the 2012-2016 American Community Survey 5-Year Estimates, 7.6 percent of the population is under age 5 and 10.8 percent of the population is over age 65 in Polk County. There were 170,697 households with an average household size of 2.48 people.

The Hazards and Vulnerability Research Institute at the University of South Carolina developed the Social Vulnerability Index (SoVI<sup>®</sup>) to evaluate and rank the ability to respond to, cope with, recover from, and adapt to disasters. The index synthesizes 30 socioeconomic variables, which the research literature suggests contribute to reduction in a community's ability to prepare for, respond to, and recover from hazards. SoVI<sup>®</sup> data sources include primarily those from the United States Census Bureau.

**Figure 2.4** shows that Polk County has a moderately high Social Vulnerability Index of -3.77. This index indicates that Polk County is less able to cope and recover from disasters than counties with a lower index.

Figure 2.4. County Comparison within the State for Social Vulnerability Index, 2006-2010

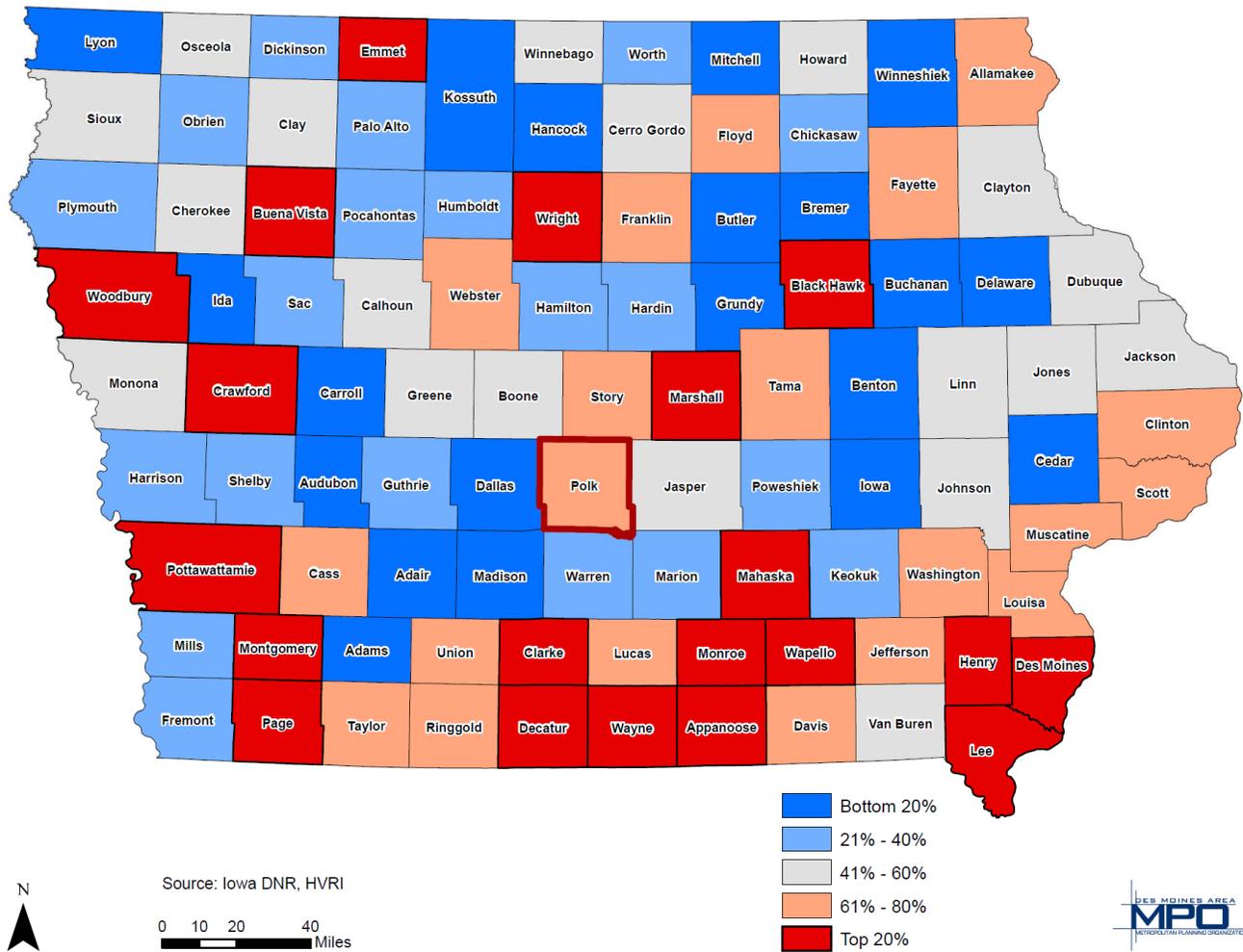


Table 2.2 provides additional demographic and economic indicators for Polk County. The Polk County values are for all of Polk County, including the incorporated cities.

**Table 2.2. Unemployment, Poverty, Education, and Language Percentage Demographics, Polk County, Iowa**

Jurisdiction	Total in Labor Force	Percent of Population Unemployed	Percent of Families Below the Poverty Level	Percentage of Population (High School graduate)	Percent of Population (Some College or Associate's Degree)	Percentage of Population (Bachelor's degree or higher)	Percentage of population (spoken language other than English)
Polk County	258,167	5.2%	8.8%	25.0%	31.2%	35.6%	12.4%
Alleman	286	1.4%	0.7%	26.5%	36.3%	34.0%	2.7%
Altoona	9,378	4.7%	7.5%	30.0%	33.3%	31.2%	3.9%
Ankeny	31,299	3.2%	3.7%	18.4%	33.1%	45.9%	6.2%
Bondurant	2,497	1.1%	2.6%	26.3%	33.2%	34.8%	5.2%
Carlisle	2,043	3.3%	7.5%	32.4%	33.5%	31.4%	0.8%
Clive	9,005	3.3%	3.7%	15.0%	25.2%	54.9%	12.0%
Des Moines	116,249	7.1%	14.4%	30.4%	31.6%	25.2%	17.3%
Elkhart	470	5.1%	8.7%	36.5%	36.7%	20.3%	0.6%
Granger	788	1.8%	3.8%	21.9%	33.1%	38.3%	2.7%
Grimes	6,302	3.2%	1.0%	21.5%	27.6%	48.6%	2.2%
Johnston	11,240	3.8%	2.9%	15.2%	24.7%	56.7%	10.8%
Mitchellville	865	6.1%	9.1%	47.8%	33.4%	9.0%	0.6%
Norwalk	5,850	5.4%	1.5%	22.5%	37.7%	36.5%	1.6%
Pleasant Hill	5,472	2.0%	3.3%	23.2%	33.4%	29.6	6.7%
Polk City	2,186	0.9%	1.1%	24.6%	33.8%	39.7%	3.1%
Runnells	287	4.5%	1.6%	48.2%	39.2%	10.1%	0.4%
Sheldahl	150	4.7%	10.1%	43.8%	30.9%	19.1%	0.0%
Urbandale	24,318	4.0%	4.7%	17.8%	29.4%	49.5%	11.4%
West Des Moines	37,498	2.7%	4.7%	13.8%	27.6%	54.9%	13.1%
Windsor Heights	2,613	6.4%	15.9%	16.7%	30.8%	47.0%	12.4%

Source: U.S. Census, 2016 American Community Survey, 5-year Estimates.

## 2.1.4 History

Captain James Allen and his company arrived at the present site of Des Moines in May of 1843. Captain Allen proposed the name of Fort Raccoon originally; but settled with the name Fort Des Moines at the suggestion of General Winfield Scott. The term "des moines" refers to the principal river between the Mississippi and Missouri Rivers. Soon after arrival, a fort was erected consisting of 25 buildings, which included stables and a barracks. A trading post was built across the river by Indian traders.

The towns of Brooklyn, Polk City, Dudley, and Fort Des Moines competed for the county seat. They all sent representatives to the Iowa Territorial Legislature in 1845 to lobby the legislators to establish the boundaries of Polk County, named after James K. Polk, the 11th president of the United States.

On January 13, 1845 the Legislature passed an Act establishing the boundaries of Polk County. The delegation from Brooklyn returned home confident that they had captured the county seat.

The delegation from Fort Des Moines had other plans, however. Four days later they succeeded in securing an amendment to a supplementary bill that altered the boundaries of Polk County once more. This was done so that Fort Des Moines would be nearer to the geographical center than Brooklyn. It was

accomplished by "borrowing" 144 square miles of territory from Warren County.

Three commissioners were appointed to establish the county seat. Since Fort Des Moines was centrally located, it was chosen as the county seat on May 25, 1846. The town of Brooklyn is now part of Des Moines.

In 1849, when Warren County was organized, the residents of Warren County ordered the land "borrowed" by Polk County returned. In 1853 the Legislature did just that, except for a few sections in Camp Township.

## 2.1.5 Occupations

Table 2.3 provides occupation statistics for the incorporated cities and the county as a whole.

Table 2.3. Occupation Statistics, Polk County, Iowa

Place	Management, Business, Science, and Arts Occupations	Service Occupations	Sales and Office Occupations	Natural Resources, Construction, and Maintenance Occupations	Production, Transportation, and Material Moving Occupations
Polk County	39.6%	16.1%	25.7%	7.5%	11.1%
Alleman	46.1%	8.5%	27.3%	12.4%	5.7%
Altoona	41.8%	14.1%	23.9%	6.5%	13.6%
Ankeny	44.7%	13.9%	25.9%	7.4%	8.1%
Bondurant	44.2%	13.6%	26.6%	8.7%	6.8%
Carlisle	46.7%	16.9%	18.3%	8.5%	9.5%
Clive	51.5%	13.3%	23.1%	3.5%	8.5%
Des Moines	30.9%	20.4%	25.5%	8.4%	14.8%
Elkhart	34.5%	8.3%	27.3%	19.8%	10.1%
Granger	43.5%	13.7%	28.4%	6.6%	7.8%
Grimes	51.1%	10.7%	26.2%	7.6%	4.4%
Johnston	58.6%	10.0%	22.7%	4.0%	4.7%
Mitchellville	26.0%	15.1%	32.1%	10.3%	16.4%
Norwalk	48.2%	11.5%	28.0%	5.7%	6.6%
Pleasant Hill	39.2%	13.5%	25.6%	11.0%	10.8%
Polk City	41.1%	9.6%	30.7%	10.4%	8.2%
Runnells	26.0%	24.9%	19.8%	15.4%	13.9%
Sheldahl	21.0%	9.1%	35.7%	18.9%	15.4%
Urbandale	50.8%	10.3%	26.6%	4.8%	7.5%
West Des Moines	53.5%	12.1%	24.8%	3.3%	6.4%
Windsor Heights	47.9%	15.0%	25.7%	4.7%	6.7%

Source: U.S. Census, 2016 American Community Survey, 5-year Estimates.

## 2.1.6 Agriculture

According to the Iowa State University, University Extension Agricultural Profile (2017) for Polk County there were 773 farms in the county covering 197,535 acres of land. Crop and livestock production are visible parts of the agricultural economy, but many related businesses contribute by producing, processing, and marketing farm and food products. These businesses generate income, employment and economic activity throughout the region. In 2017, Polk County farmers harvested 78,500 acres of corn, 70,300 acres of soybeans and 6,600 head of cattle. Farms in Polk County have an average size 256 acres. The average net cash farm income of operation in 2015 was \$226,218. Polk County agriculture provides 6,268 jobs, representing a minimal percent of the County's workforce. Polk County agriculture and economy contributions are summarized in **Table 2.4**.

**Table 2.4. Polk County Agriculture, Food Manufacturing, and Other Ag-Related Manufacturing Economic Activity, 2015**

	<b>Industrial Output</b>	<b>Jobs</b>
Crop and livestock production	\$ 126,948,593	639
Food manufacturing	\$ 3,364,430,653	4,317
Farm machinery manufacturing	\$ 690,603,455	1,049
Agricultural chemicals	\$ 238,128,864	135
Agriculture Support	\$ 30,794,212	128
Total agriculture, food manufacturing, and other ag-related manufacturing	\$ 4,450,905,777	6,268
Agriculture and food manufacturing as a percentage of total	6.7%	1.7%
All other industries	\$ 62,130,042,080	354,609
<b>Total economic activity in all industries</b>	<b>\$ 66,580,947,857</b>	<b>360,877</b>

Source: Department of Economics, Iowa State University; IMPLAN 2015 Polk County dataset.

## 2.1.7 FEMA Hazard Mitigation Assistance Grants in Planning Area

Since 1993, over \$29 Million in Federal Hazard Mitigation Assistance grants has been awarded to subgrantees in Polk County. **Table 2.5** provides details on the previous FEMA Hazard Mitigation Assistance Grants in the planning area organized by project type.

**Table 2.5. FEMA HMA Grants in Polk County from 2009-2017**

Applicant Name	Project Type	Project Obligated Date	Total Obligated
City of Des Moines	Acquisition	4/30/2009	\$233,085.10
City of Des Moines	Acquisition	4/29/2009	\$747,897.10
Polk (County)	General Mitigation Drainage	1/26/2011	\$8,522,705.40
Bondurant-Farrar CSD	Tornado Safe Room	8/18/2010	\$1,437,375.73
Bondurant-Farrar CSD	Tornado Safe Room	8/11/2010	\$941,859.41
City of Bondurant	Tornado Safe Room	8/11/2010	\$411,317.10
West Des Moines CSD	Tornado Safe Room	6/13/2011	\$2,047,323.00
City of Des Moines	Acquisition	12/12/2011	\$5,627,643.14
Polk County EMA	Planning	5/14/2012	\$96,965.11
City of Johnston	5% Generator	5/8/2014	\$431,820.00
Polk (County)	Acquisition	8/24/2015	\$335,500.00
City of Des Moines	Acquisition	9/10/2015	\$177,249.97
City of Des Moines	Acquisition	10/20/2015	\$1,044,043.00
Polk County EMA	Planning	12/7/2017	\$30,000.00
<b>Total</b>			<b>\$22,084,784.06</b>

Source: Iowa Homeland Security and Emergency Management Division, March 2018

## 2.2 Jurisdictional Profiles and Mitigation Capabilities

This section includes individual profiles for each participating jurisdiction as well as a discussion of previous mitigation initiatives and a summary table indicating specific capabilities of each jurisdiction that relate to their ability to implement mitigation opportunities. The unincorporated county is profiled first, followed by the incorporated cities, Des Moines Water Works, and the public school districts.

### 2.2.1 Unincorporated Polk County

The jurisdiction of Polk County includes all unincorporated areas within the County boundaries. The Polk County government structure is a County Board of Supervisors with five members.

#### Mitigation Initiatives/Capabilities

Chapter 29C of the Code of Iowa creates the State Emergency Management Division and the local Emergency Management Commissions. The Polk County Emergency Management Commission is made up of the mayors of all of the jurisdictions in Polk County, one member of the Polk County Board of Supervisors, and the Sheriff. The Commission appoints an Emergency Management Director to manage the agency and assist the Commission.

Additional initiatives/capabilities are discussed below as well as in **Table 2.6** that follows:

- Polk County has several outdoor warning sirens which are activated by the Polk County Sheriff's Office.
- The County utilizes Code Red system for alerting.

**Table 2.6. Unincorporated Polk County Mitigation Capabilities**

Capabilities	Status
Planning Capabilities	
Comprehensive Plan	Yes- 2030 Plan adopted May 9, 2006
Builder's Plan	No
Capital Improvement Plan	Yes, 5 year plan updated annually, approved with county budget
Local Emergency Plan	Not Reported
County Emergency Plan	Yes
Local Recovery Plan	N/A
County Recovery Plan	Part of Emergency Operations Plan
Local Mitigation Plan	Yes, July 2014
County Mitigation Plan	Yes, July 2014
Local Mitigation Plan (PDM)	No
County Mitigation Plan (PDM)	No
Economic Development Plan	Yes, Part of Comprehensive Plan and ED Ordinance adopted February 2003
Transportation Plan	Yes, update 5 year plan annually for capital projects. Also, MPO Long Range Transportation Plan
Land-use Plan	Yes, June 4, 2018

**Table 2.6. Unincorporated Polk County Mitigation Capabilities**

<b>Capabilities</b>	<b>Status</b>
<b>Planning Capabilities</b>	
Flood Mitigation Assistance (FMA) Plan	No
Watershed Plan	Involved in multiple Watershed Management Authorities: Fourmile, Mud/Camp/Spring, Beaver, and Walnut. Each one has adopted or in process of developing a plan.
Firewise or other fire mitigation plan	No
School Mitigation Plan	Not Reported
Critical Facilities Plan (Mitigation/Response/Recovery)	Not Reported
<b>Policies/Ordinance</b>	
Zoning Ordinance	Yes. Adopted September 10, 2017. Amended: June 4, 2018.
Building Code	Version: 2015 IBC & PC. Construction Code April 2, 2018
Floodplain Ordinance	Polk County Zoning Ordinance Article 7. Natural Resource Protection Division 4. Natural Resources Section 1. Floodplains.
Subdivision Ordinance	Yes. Effective: April 12, 2007. Revised: January 2017.
Tree Trimming Ordinance	No
Nuisance Ordinance	Yes. Effective: January 2005
Storm Water Ordinance	Polk County Zoning Ordinance Article 8. Stormwater and Erosion Control Management.
Drainage Ordinance	Polk County Zoning Ordinance Article 8. Stormwater and Erosion Control Management.
Site Plan Review Requirements	Polk County Zoning Ordinance Article 16. Site Plans
Historic Preservation Ordinance	No
Landscape Ordinance	Polk County Zoning Ordinance Article 10. Landscaping.
Iowa Wetlands and Riparian Areas Conservation Plan	Polk County Zoning Ordinance Article 7. Natural Resource Protection Section 5. Wetlands.
Debris Management Plan	No
<b>Program</b>	
Zoning/Land Use Restrictions	Yes- see Ordinance
Codes Building Site/Design	Yes, Construction Code April 2, 2018
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes
NFIP Community Rating System (CRS) Participating Community	No
Hazard Awareness Program	Yes
National Weather Service (NWS) Storm Ready	Yes
Building Code Effectiveness Grading (BCEGs)	No
ISO Fire Rating	9/1/15 Residential Rating 30.70 Commercial Rating 31.30
<b>Capabilities</b>	
<b>Status</b>	
Economic Development Program	No
Land Use Program	Yes
Public Education/Awareness	No
Property Acquisition	No
Planning/Zoning Boards	Yes: Board of Adjustment, Zoning Commission
Stream Maintenance Program	No
Tree Trimming Program	No
Engineering Studies for Streams (Local/County/Regional)	Yes- several in progress
Mutual Aid Agreements	Yes
<b>Studies/Reports/Maps</b>	
Hazard Analysis/Risk Assessment (Local)	Not Reported

**Table 2.6. Unincorporated Polk County Mitigation Capabilities**

Capabilities	Status
Studies/Reports/Maps	
Hazard Analysis/Risk Assessment (County)	Yes
Flood Insurance Maps	Currently Being Updated
FEMA Flood Insurance Study (Detailed)	Currently Being Updated
Evacuation Route Map	Not Reported
Critical Facilities Inventory	Not Reported
Vulnerable Population Inventory	Not Reported
Land Use Map	Yes
Staff/Department	
Building Code Official	Yes
Building Inspector	Yes
Mapping Specialist (GIS)	Yes- IT Dept.
Engineer	Yes
Development Planner	Yes
Public Works Official	Yes
Emergency Management Director	Yes
NFIP Floodplain Administrator	Yes
Bomb and/or Arson Squad	Not Reported
Emergency Response Team	Not Reported
Hazardous Materials Expert	Not Reported
Local Emergency Planning Committee	Yes
County Emergency Management Commission	Yes
Sanitation Department	Yes
Transportation Department	Yes
Economic Development Department	Yes
Housing Department	Yes
Planning Consultant	Yes
Regional Planning Agencies	Yes
Historic Preservation	No
Non-Governmental Organizations (NGOs)	
American Red Cross	Not Reported
Salvation Army	Not Reported
Veterans Groups	Not Reported
Environmental Organization	Not Reported
Homeowner Associations	Yes
Neighborhood Associations	No
Chamber of Commerce	Not Reported
Community Organizations (Lions, Kiwanis, etc.)	Not Reported
Local Funding Availability	
Ability to apply for Community Development Block Grants	Yes
Ability to fund projects through Capital Improvements funding	Yes
Authority to levy taxes for a specific purpose	Not Reported
Fees for water, sewer, gas, or electric services	Sewer and Water
Impact fees for new development	No
Ability to incur debt through general obligation bonds	Yes
Ability to incur debt through special tax bonds	Not Reported
Ability to incur debt through private activities	Not Reported
Ability to withhold spending in hazard prone areas	Not Reported

Source: Data Collection Guide, 2018

## 2.2.2 City of Alleman

The City of Alleman is located in northern Polk County. It is governed by a Mayor and 5-member Council. It had an estimated 2016 population of 499, up 67 from the 2010 population of 432.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.7** that follows:

- Residents receive information regarding water use from Des Moines Water Works.
- Alleman has two outdoor warning sirens, one at each end of town. The sirens are activated through Polk County Dispatch.

**Table 2.7. Alleman Mitigation Capabilities**

Capability	Comments
<b>Planning Capabilities</b>	
Comprehensive Plan	Yes
Builder's Plan	No
Capital Improvement Plan	No
Local Emergency Plan	Polk County
County Emergency Plan	Yes
Local Recovery Plan	No
County Recovery Plan	Yes
Local Mitigation Plan	No
County Mitigation Plan	Yes
Local Mitigation Plan (PDM)	No
County Mitigation Plan (PDM)	No
Economic Development Plan	No
Transportation Plan	No
Land-use Plan	Yes
Flood Mitigation Assistance (FMA) Plan	No
Watershed Plan	Yes
Firewise or other fire mitigation plan	Yes
School Mitigation Plan	No
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes
<b>Policies/Ordinance</b>	
Zoning Ordinance	Yes
Building Code	Yes
Floodplain Ordinance	No
Subdivision Ordinance	Yes
Tree Trimming Ordinance	No
Nuisance Ordinance	Yes
Storm Water Ordinance	Yes
Drainage Ordinance	Yes
Site Plan Review Requirements	No
Historic Preservation Ordinance	No
Landscape Ordinance	Yes
Iowa Wetlands and Riparian Areas Conservation Plan	No
Debris Management Plan	Yes
<b>Program</b>	
Zoning/Land Use Restrictions	Yes
Codes Building Site/Design	Yes
National Flood Insurance Program (NFIP) Participant - Nondelegated	No

**Table 2.7. Alleman Mitigation Capabilities**

Capability	Comments
<b>Program</b>	
NFIP Community Rating System (CRS) Participating Community	No
Hazard Awareness Program	No
National Weather Service (NWS) Storm Ready	Yes
Building Code Effectiveness Grading (BCEGs)	No
ISO Fire Rating	No
Economic Development Program	No
Land Use Program	No
Public Education/Awareness	Yes
Property Acquisition	No
Planning/Zoning Boards	Yes
Stream Maintenance Program	Yes
Tree Trimming Program	No
Engineering Studies for Streams (Local/County/Regional)	No
Mutual Aid Agreements	Yes
<b>Studies/Reports/Maps</b>	
Hazard Analysis/Risk Assessment (Local)	No
Hazard Analysis/Risk Assessment (County)	Yes
Flood Insurance Maps	No
FEMA Flood Insurance Study (Detailed)	No
Evacuation Route Map	No
Critical Facilities Inventory	No
Vulnerable Population Inventory	No
Land Use Map	Yes
<b>Staff/Department</b>	
Building Code Official	County
Building Inspector	County
Mapping Specialist (GIS)	County
Engineer	Hired as needed
Development Planner	No
Public Works Official	Yes
Emergency Management Coordinator	County
NFIP Floodplain Administrator	No
Bomb and/or Arson Squad	County
Emergency Response Team	County
Hazardous Materials Expert	County
Local Emergency Planning Committee	No
County Emergency Management Commission	Yes
Sanitation Department	No
Transportation Department	No
Economic Development Department	No
Housing Department	No
Planning Consultant	No
Regional Planning Agencies	No
Historic Preservation	No
<b>Non-Governmental Organizations (NGOs)</b>	
American Red Cross	No
Salvation Army	No
Veterans Groups	No
Environmental Organization	No
Homeowner Associations	No
Neighborhood Associations	No
Chamber of Commerce	No
Community Organizations (Lions, Kiwanis, etc.)	Boy Scouts, Girl Scouts
<b>Local Funding Availability</b>	
Ability to apply for Community Development Block Grants	Yes

Ability to fund projects through Capital Improvements funding	Yes
<b>Capability</b>	<b>Comments</b>
Local Funding Availability	
Authority to levy taxes for a specific purpose	Yes
Fees for water, sewer, gas, or electric services	Yes
Impact fees for new development	Yes
Ability to incur debt through general obligation bonds	Yes
Ability to incur debt through special tax bonds	Yes
Ability to incur debt through private activities	Yes

Source: Data Collection Guide, 2018

## 2.2.3 City of Altoona

The City of Altoona is a city in Polk County located about 5 miles northeast of Des Moines. It is governed by a Mayor, 5-member Council and a City Administrator. It had an estimated 2016 population of 16,692, up nearly 15 percent from the 2010 population of 14,541.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.8** that follows:

- The City participates in the Metro Water group that promotes wise water use.
- The City publishes a newsletter and hosts a website that can be used for public information.
- The City participates in the Iowa Stormwater Education Partnership which provides public information.
- Altoona has 11 outdoor warning sirens which are activated by Polk County Dispatch.
- The City utilizes a reverse 911 system.
- The City has designated church basements and elementary schools as tornado shelters.

**Table 2.8. Altoona Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes, 1996, 2007, 2014	
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes, 2017	Updated annually
Local Emergency Plan	Yes	
County Emergency Plan	Yes	
Local Recovery Plan	No	
County Recovery Plan	N/A	
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes, 2009	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan		Currently developing
Transportation Plan	Yes	MPO
Land-use Plan	Yes, 2007	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes	Four Mile, Mud, and Spring Creeks
Firewise or other fire mitigation plan		Currently updating
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)		Currently Updating
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	
Building Code	Yes, 2012	Updating to 2018 version
Floodplain Ordinance	Yes	
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	Yes	
Nuisance Ordinance	Yes	

**Table 2.8. Altoona Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Storm Water Ordinance	Yes	
Drainage Ordinance	Yes	
Site Plan Review Requirements	Yes	
Historic Preservation Ordinance	No	
Landscape Ordinance	Within site plan requirements	
Iowa Wetlands and Riparian Areas Conservation Plan	Not Reported	
Debris Management Plan		Regional Plan
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	No	
Building Code Effectiveness Grading (BCEGs)	Yes	
ISO Fire Rating	Rating 4	
Economic Development Program	Yes	
Land Use Program	Yes	
Public Education/Awareness	Yes	Newsletter
Property Acquisition	Yes	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	Mud and Spring Creeks
Mutual Aid Agreements	Yes	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	Yes, 2009	Being Updated
Hazard Analysis/Risk Assessment (County)	Yes, 2009	Being Updated
Flood Insurance Maps	Yes	Being Updated through Risk MAP
FEMA Flood Insurance Study (Detailed)	Yes	Being Updated through Risk MAP
Evacuation Route Map	Yes	Police Department
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	No	
Land Use Map	Yes	
<b>Staff/Department</b>		
Building Code Official	Yes	Mike Pardekooper
Building Inspector	Yes	Derik Strait
Mapping Specialist (GIS)	Yes	Rachel Rozendaal
Engineer	Yes	Jon Hanson
Development Planner	Yes	John Shaw

**Table 2.8. Altoona Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Public Works Official	Yes	Scott Atzen
Emergency Management Coordinator	Yes	Polk County
NFIP Floodplain Administrator	Yes	Jon Hanson
Bomb and/or Arson Squad	Yes	Mutual Aid Agreement
Emergency Response Team	Yes	
Hazardous Materials Expert	Yes	Mutual Aid Agreement
Local Emergency Planning Committee	Yes	Polk County
County Emergency Management Commission	Yes	Polk County
Sanitation Department	No	
Transportation Department	No	
Economic Development Department	Yes	
Housing Department	Yes	
Planning Consultant	Yes	John Peterson
Regional Planning Agencies	No	
Historic Preservation	No	
Non-Governmental Organizations (NGOs)		
American Red Cross	Yes	
Salvation Army	Yes	
Veterans Groups	Yes	
Environmental Organization	Yes	Watershed group
Homeowner Associations	Yes	
Neighborhood Associations	No	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	No	
Ability to withhold spending in hazard prone areas	Yes	

Source: Data Collection Guide, 2018

## 2.2.4 City of Ankeny

The City of Ankeny is a city in northern Polk County. It is governed by a Mayor and 5-member Council. It had an estimated 2016 population of 53,413, up by 17 percent from the 2010 population of 45,582.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.9** that follows:

- Ankeny provides periodic public notices and education articles on fire prevention.
- The Police Department provides both bicycle safety programs and Child Safety Seat training.
- Ankeny Communication Office, Polk County EMA and Polk County Health Department provide media articles on winter storms, heat, health and infectious control awareness.
- Ankeny completed the Westwind Reconstruction Project for storm sewer erosion control.
- The City also completed Rock Creek Storm water control project which is designed to reduce flash flooding and erosion.
- The city of Ankeny has 21 outdoor warning sirens.

**Table 2.9. Ankeny Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes, 2018	
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes, 2018	Updated Annually
Local Emergency Plan	Yes, 2007	
County Emergency Plan	Yes	
Local Recovery Plan	Yes, 2007	
County Recovery Plan	Yes	
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	Yes, 2018	Within Comp Plan
Transportation Plan	Yes, 2018	Within Comp Plan
Land-use Plan	Yes, 2018	Within Comp Plan
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes	Currently Updating
Firewise or other fire mitigation plan	Not Reported	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes	Ankeny EOP
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	Municipal Code
Building Code	Yes, current IBC/IRC	

**Table 2.9. Ankeny Mitigation Capabilities**

Capabilities	Status	Comments
Policies/Ordinance		
Floodplain Ordinance	Yes, 2010	
Subdivision Ordinance	Yes	Currently updating
Tree Trimming Ordinance	Yes	Municipal Code
Nuisance Ordinance	Yes	Municipal Code
Storm Water Ordinance	Yes	Municipal Code
Drainage Ordinance	No	
Site Plan Review Requirements	Yes	Municipal Code
Historic Preservation Ordinance	Not Reported	
Landscape Ordinance	Yes	Municipal Code
Iowa Wetlands and Riparian Areas Conservation Plan	Not Reported	
Debris Management Plan	Yes	Ankeny EOP
Program		
Zoning/Land Use Restrictions	Yes	Currently Updating
Codes Building Site/Design	Yes	Currently Updating
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	Yes	
National Weather Service (NWS) Storm Ready	Yes	
Building Code Effectiveness Grading (BCEGs)	Yes	
ISO Fire Rating	Rating: 3	
Economic Development Program	Yes	
Land Use Program	Yes	Comp Plan
Public Education/Awareness	Yes	Periodic
Property Acquisition	Yes	Use Iowa code
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	Stormwater Ord.
Tree Trimming Program	Yes	Per Municipal Code
Engineering Studies for Streams (Local/County/Regional)	Yes	Currently Updating
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Yes	
Hazard Analysis/Risk Assessment (County)	Yes	
Flood Insurance Maps	Yes	
FEMA Flood Insurance Study (Detailed)	Yes	
Evacuation Route Map	Yes	
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	No	
Land Use Map	Yes	
Staff/Department		
Building Code Official	Yes	

**Table 2.9. Ankeny Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Building Inspector	Yes	
Mapping Specialist (GIS)	Yes	
Engineer	Yes	
Development Planner	Yes	
Public Works Official	Yes	
Emergency Management Coordinator	Yes	
NFIP Floodplain Administrator	Yes	
Bomb and/or Arson Squad	Yes	Through partnerships
Emergency Response Team	Yes	CERT
Hazardous Materials Expert	Yes	Through DM
Local Emergency Planning Committee	Yes	Polk LEPC
County Emergency Management Commission	Yes	
Sanitation Department	No	
Transportation Department	Yes	
Economic Development Department	Yes	
Housing Department	No	
Planning Consultant	No	
Regional Planning Agencies	Yes	
Historic Preservation	No	
Non-Governmental Organizations (NGOs)		
American Red Cross	Yes	
Salvation Army	Yes	
Veterans Groups	Yes	
Environmental Organization	No	
Homeowner Associations	Yes	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	No	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	No	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	No	
Ability to incur debt through private activities	No	
Ability to withhold spending in hazard prone areas	No	

Source: Data Collection Guide, 2018

## 2.2.5 City of Bondurant

The City of Bondurant is a small city on the eastern portion of Polk County. It is governed by a Mayor and 5-member Council and a City Administrator. It had an estimated 2016 population of 5,079, up over 31 percent from the 2010 population of 3,860.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.10** that follows:

- The Fire Department conducts safety sessions annually, primarily at school facilities.
- Bondurant has 4 outdoor warning sirens which are activated by the Polk County Dispatch.
- The City has a designated public tornado shelter/safe room located at the Bondurant Recreation Sports Complex.

**Table 2.10. Bondurant Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes	
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes	
Local Emergency Plan	Yes, Polk County Emergency Management HMP	
County Emergency Plan	Yes, Polk County Emergency Management HMP	
Local Recovery Plan	Yes, Polk County Emergency Management HMP	
County Recovery Plan	Yes, Polk County Emergency Management HMP	
Local Mitigation Plan	Yes, Polk County Emergency Management HMP	
County Mitigation Plan	Yes, Polk County Emergency Management HMP	
Local Mitigation Plan (PDM)	Not Reported	
County Mitigation Plan (PDM)	Not Reported	
Economic Development Plan	Not Reported	
Transportation Plan	Not Reported	
Land-use Plan	Yes	
Flood Mitigation Assistance (FMA) Plan	Yes, PCEM's CEP	
Watershed Plan	Yes	Mud Creek Watershed Management
Firewise or other fire mitigation plan	Yes, PCEM's CEP	
School Mitigation Plan	Yes, PCEM's CEP	
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes, PCEM's CEP	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes, 2018	
Building Code	Yes, 2015	
Floodplain Ordinance	Not Reported	
Subdivision Ordinance	Not Reported	
Tree Trimming Ordinance	Not Reported	

**Table 2.10. Bondurant Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Nuisance Ordinance	Not Reported	
Storm Water Ordinance	Not Reported	
Drainage Ordinance	Not Reported	
<b>Policies/Ordinance</b>		
Site Plan Review Requirements	Not Reported	
Historic Preservation Ordinance	Not Reported	
Landscape Ordinance	Not Reported	
Iowa Wetlands and Riparian Areas Conservation Plan	Not Reported	
Debris Management Plan	None	
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	Not Reported	
Hazard Awareness Program	All FD members Hazmat Ops Level	
National Weather Service (NWS) Storm Ready	Yes	Storm Sirens – Polk County Dispatch via radio direct from NWS.
Building Code Effectiveness Grading (BCEGs)	Not Reported	
ISO Fire Rating	Yes, 2018 - 4	
Economic Development Program	Not Reported	
Land Use Program	Not Reported	
Public Education/Awareness	Not Reported	
Property Acquisition	Not Reported	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Mud Creek Watershed Management	
Tree Trimming Program	Not Reported	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	Not Reported	
Hazard Analysis/Risk Assessment (County)	Polk Co. EMA	
Flood Insurance Maps	Not Reported	
FEMA Flood Insurance Study (Detailed)	Not Reported	
Evacuation Route Map	Not Reported	
Critical Facilities Inventory	Not Reported	
Vulnerable Population Inventory	Not Reported	
Land Use Map	Yes	
<b>Staff/Department</b>		
Building Code Official	Yes	Veenstra & Kimm
Building Inspector	Yes	Veenstra & Kimm

**Table 2.10. Bondurant Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Mapping Specialist (GIS)	Not Reported	
Engineer	Yes	Veenstra & Kimm
Development Planner	Not Reported	
Public Works Official	Yes	John Horton (Public Works Director)
Emergency Management Director	Yes	Aaron Kruder (Fire Chief)
NFIP Floodplain Administrator	Yes	Marketa Oliver (City Administrator)
Bomb and/or Arson Squad	Yes	Polk Co. Sheriff/ Fire Dept.
Emergency Response Team	Yes	FD/EMS/PCSO
Hazardous Materials Expert	Yes	FD/ Des Moines Hazmat Techs.
Local Emergency Planning Committee	Not Reported	
County Emergency Management Commission	Yes	Mayor and Fire Chief serve on Polk Co. EMA commission.
Sanitation Department	Yes	Ankeny Sanitation
Transportation Department	Not Reported	
Economic Development Department	Not Reported	
Housing Department	Not Reported	
Planning Consultant	Yes	Hoisington- Koegler
Regional Planning Agencies	Not Reported	
Historic Preservation	Not Reported	
Non-Governmental Organizations (NGOs)		
American Red Cross	Not Reported	
Salvation Army	Not Reported	
Veterans Groups	Yes	American Legion Post
Environmental Organization	Not Reported	
Homeowner Associations	Yes	Wolf Creek HOA
Neighborhood Associations	Not Reported	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	Lions, Men's Club
Local Funding Availability		
Ability to apply for Community Development Block Grants	Not Reported	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Not Reported	
Ability to withhold spending in hazard prone areas	No	

Source: Data Collection Guide, 2018

## 2.2.6 City of Clive

The City of Clive is a small city in west Polk County. It is governed by a Mayor and 5-member Council. It had an estimated 2016 population of 17,022, up by more than 10 percent from the 2010 population of 15,447.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.11** that follows:

- The City provides public education through newsletters, bill stuffers and brochures that cover the effects of storm water to include flooding and water quality.
- The City has developed a flood buyout program for the University Boulevard repetitive loss neighborhood.
- Clive built a concrete flood protection wall around its distribution pumping station on University Boulevard, has purchased several water bladders to aid in restraining Walnut Creek flood water at University Boulevard, and has purchased a flat bottom shallow water rescue boat.
- Clive has 10 outdoor warning sirens. Seven are specific to Clive, one additional is shared with and located in the city of Urbandale, and one is located in Waukee and shared.
- Clive uses Reverse 911 system governed by the Code Red.

**Table 2.11. Clive Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Comprehensive Plan	Yes, 2016	
Builder's Plan	No	
Capital Improvement Plan	Yes, 2017	
Local Emergency Plan	No	
County Emergency Plan	Yes	Polk County Comprehensive Emergency Plan
Local Recovery Plan	No	
County Recovery Plan	No	
Local Mitigation Plan	Yes	Through Polk County
County Mitigation Plan	Yes	Polk County Multi-Jurisdictional Local Hazard Mitigation Plan
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	No	
Transportation Plan	Yes	Des Moines Area MPO Long Range Transportation Plan
Land-use Plan	Yes, 2016	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes, 2016	
Firewise or other fire mitigation plan	Yes, 2017	Fire Standards of Cover Study
School Mitigation Plan	No	
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes, 2011	Buckeye Fuel Terminal Initial Response Plan

**Table 2.11. Clive Mitigation Capabilities**

Policies/Ordinance		
Zoning Ordinance	Yes	
Building Code	Yes, IBC 2015	
Capabilities	Status	Comments
Policies/Ordinance		
Floodplain Ordinance	Yes	
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	Yes	
Nuisance Ordinance	Yes	
Storm Water Ordinance	Yes	
Drainage Ordinance	No	
Site Plan Review Requirements	Yes	
Historic Preservation Ordinance	No	
Landscape Ordinance	Yes	
Iowa Wetlands and Riparian Areas Conservation Plan	Yes, 2016	Greenbelt Master Plan
Debris Management Plan	Yes, 2015	Metro Debris Management Plan
Program		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	Yes	Class 5 community
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	Yes	Polk County
Building Code Effectiveness Grading (BCEGs)	Yes	Residential 4; Commercial 3
ISO Fire Rating	Yes	3—3X
Economic Development Program	Yes	Greater Des Moines Partnership
Land Use Program	Yes	
Public Education/Awareness	Yes	In practice
Property Acquisition	Yes	In practice, as needed
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Yes	Polk County Multi-Jurisdictional Local Hazard Mitigation Plan, Clive Flood Response & Recovery Plan, Fire Standards of Cover Study
Hazard Analysis/Risk Assessment (County)	Yes	Polk County Multi-Jurisdictional Local Hazard Mitigation Plan
Flood Insurance Maps	Yes	
FEMA Flood Insurance Study (Detailed)	Yes	
Evacuation Route Map	Yes	Flood evacuation referenced in Clive Flood Response & Recovery Plan
Critical Facilities Inventory	Yes	Fire Standards of Cover Study
Vulnerable Population Inventory	Yes	Fire Standards of Cover Study

**Table 2.11. Clive Mitigation Capabilities**

Capabilities	Status	Comments
Studies/Reports/Maps		
Land Use Map	Yes	
Staff/Department		
Building Code Official	Yes	Ryan Mayer
Building Inspector	Yes	Ryan Mayer
Mapping Specialist (GIS)	Yes	Corey Phillips
Engineer	Yes	Jim Hegelie
Development Planner	Yes	Doug Ollendike
Public Works Official	Yes	Jeff May
Emergency Management Coordinator	Yes	Rick Roe
NFIP Floodplain Administrator	Yes	Doug Ollendike
Bomb and/or Arson Squad	No	State of Iowa
Emergency Response Team	No	State of Iowa
Hazardous Materials Expert	Yes	Des Moines Fire Department Regional HazMat Team
Local Emergency Planning Committee	Yes	Polk County LEPC
County Emergency Management Commission	Yes	Polk County Emergency Management Commission, Dallas County Emergency Management Commission
Sanitation Department	Yes	Metro Waste Authority, contracted Hauler is Waste Management
Transportation Department	Yes	Des Moines Regional Area Transportation
Economic Development Department	No	
Housing Department	No	
Planning Consultant	No	
Regional Planning Agencies	Yes	Des Moines Area MPO
Historic Preservation	Yes	Clive Historical Society
Non-Governmental Organizations (NGOs)		
American Red Cross	No	Metro Area
Salvation Army	No	Metro Area
Veterans Groups	No	Various
Environmental Organization	Yes	Walnut Creek WMA
Homeowner Associations	Yes	Various
Neighborhood Associations	Yes	Various
Chamber of Commerce	Yes	Kristy Schmidt
Community Organizations (Lions, Kiwanis, etc.)	Yes	Various
Local Funding Availability		
Ability to apply for Community Development Block Grants	No	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	No	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	

**Table 2.11. Clive Mitigation Capabilities**

Capabilities	Status	Comments
Local Funding Availability		
Ability to incur debt through private activities	Not Reported	
Ability to withhold spending in hazard prone areas	Not Reported	

Source: Data Collection Guide, 2018

## 2.2.7 City of Des Moines

The City of Des Moines is the capital city of Iowa and is located in central Polk County. It is the largest city in the county and had an estimated 2016 population of 212,859; up over 4 percent from the 2010 population of 204,220. It is governed by a 7-member Council member one of which serves as Mayor.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.12** that follows:

- Fire safety/public education programs are provided to schools, senior citizen groups and businesses throughout each year.
- The Des Moines Municipal Housing agency provides periodic fire safety educational sessions to tenants within multi-family units.
- The Des Moines Municipal Housing Agency has a provision within HUD and an approved Agency Plan for both Public Housing and Section 8 to provide pro-rated rental assistance to families that would lose their housing due to natural disasters or through no fault of their own. Additionally, the Des Moines Community Action Agency has historically assisted with income verification and distribution of disaster assistance funds to low-income families, providing referral services and staffing a booth at the FEMA designated command center.
- Des Moines has 28 outdoor warning sirens which are activated by the Polk County.
- Des Moines Public Safety Dispatch has reverse 911 capabilities and Code Red for mass communication by telephone for emergency information.
- The City has a FEMA certified tornado shelter/safe room at the Iowa State Fairgrounds.

**Table 2.12. Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Comprehensive Plan	Yes, April 2016	<a href="https://plandsm.dmgov.org/">https://plandsm.dmgov.org/</a>
Builder's Plan	No	
Capital Improvement Plan	Yes, March 2018	
Local Emergency Plan	No	
County Emergency Plan		See Polk County
Local Recovery Plan	No	
County Recovery Plan		See Polk County
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan		See Polk County
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)		See Polk County
Economic Development Plan	No	
Transportation Plan	Yes, adopted November 2018	
Land-use Plan	Yes, April 2016	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes, January 2018	
Firewise or other fire mitigation plan	No	
School Mitigation Plan		See School Districts

**Table 2.12. Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Critical Facilities Plan (Mitigation/Response/Recovery)		See Homeland Security
Policies/Ordinance		
Zoning Ordinance	Yes	Update to be complete in 2019
Building Code	Yes, December 2016	
Floodplain Ordinance	Yes, September 2014	
Subdivision Ordinance	Yes, September 2014	
Tree Trimming Ordinance	Yes, September 2009	
Nuisance Ordinance	Yes, March 2018	
Storm Water Ordinance	Yes, September 2014	
Drainage Ordinance	Yes, September 2005	
Site Plan Review Requirements	Yes, September 2009	
Historic Preservation Ordinance	Yes, March 2016	
Landscape Ordinance	Yes, September 2009	
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	N/A	
Program		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	Yes	
Hazard Awareness Program	Yes	
National Weather Service (NWS) Storm Ready	No	Polk County EMA
Building Code Effectiveness Grading (BCEGs)	Yes	
ISO Fire Rating	Yes	
Economic Development Program	Yes	
Land Use Program	Yes	
Public Education/Awareness	Yes	
Property Acquisition	Yes	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	No	
Hazard Analysis/Risk Assessment (County)	Yes	Polk County EMA
Flood Insurance Maps	Yes	
FEMA Flood Insurance Study (Detailed)	Yes	
Evacuation Route Map	Yes	Fire Department
Critical Facilities Inventory	No	
Studies/Reports/Maps		
Vulnerable Population Inventory	No	
Land Use Map	Yes	

**Table 2.12. Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Building Code Official	Yes	
Building Inspector	Yes	
Mapping Specialist (GIS)	Yes	
Engineer	Yes	
Development Planner	Yes	
Public Works Official	Yes	
Emergency Management Coordinator	No	Polk County EMA
NFIP Floodplain Administrator	Yes	
Bomb and/or Arson Squad	Yes	
Emergency Response Team	Yes	
Hazardous Materials Expert	Yes	
Local Emergency Planning Committee	No	Polk County EMA
County Emergency Management Commission	No	Polk County EMA
Sanitation Department	Yes	
Transportation Department	Yes	
Economic Development Department	Yes	
Housing Department	Yes	
Planning Consultant		Hired as needed
Regional Planning Agencies	Yes	
Historic Preservation	Yes	
Non-Governmental Organizations (NGOs)		
American Red Cross	Yes	
Salvation Army	Yes	
Veterans Groups	Yes	
Environmental Organization	Yes	
Homeowner Associations	Yes	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	Sewer & Water
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Not Reported	
Local Funding Availability		
Ability to incur debt through private activities	No	
Ability to withhold spending in hazard prone areas	No	

Source: Data Collection Guide, 2018

## 2.2.8 City of Elkhart

The City of Elkhart is a small city in northeast Polk County. It is governed by a Mayor and 5- member Council. It had an estimated 2016 population of 815, up nearly 20 percent from the 2010 population of 683.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.13** that follows:

- The City produces monthly newsletters to property owners covering fire safety programs.
- The City has one outdoor warning siren that is activated remotely by Polk County Dispatch.

**Table 2.13. Elkhart Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes	
Builder's Plan	None	
Capital Improvement Plan	None	
Local Emergency Plan	No	
County Emergency Plan	Yes	
Local Recovery Plan	N	
County Recovery Plan	Yes	
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes, 2009	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	No	
Transportation Plan	No	
Land-use Plan	Yes	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes-Part of Watershed Planning Area	
Firewise or other fire mitigation plan	No	Doing Pier Plans
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes	Under Development
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	
Building Code	Yes, 2006	
Floodplain Ordinance	No	
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	Yes	
Nuisance Ordinance	Yes	
Storm Water Ordinance	Yes	
Drainage Ordinance	Yes	
Site Plan Review Requirements	Yes-contracted	
Historic Preservation Ordinance	No	

**Table 2.13. Elkhart Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Landscape Ordinance	Not Reported	
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	No-Polk County	
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	No	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	Yes	
Building Code Effectiveness Grading (BCEGs)	Yes	
ISO Fire Rating	Rating 6	
Economic Development Program	No	
Land Use Program	Yes	
Public Education/Awareness	Yes	
Property Acquisition	No	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Not Reported	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Polk County	
Mutual Aid Agreements	Yes	Fire
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	Polk County	
Hazard Analysis/Risk Assessment (County)	Not Reported	
Flood Insurance Maps	Being Updated through Risk MAP	
FEMA Flood Insurance Study (Detailed)	Being Updated through Risk MAP	
Evacuation Route Map	No	
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	No	
Land Use Map	Yes	
<b>Staff/Department</b>		
Building Code Official	Contractor	
Building Inspector	Yes, 1	
Mapping Specialist (GIS)	Yes, City Engineer	
Engineer	Yes, 1	
Development Planner	No	
Public Works Official	Yes	
Emergency Management Coordinator	No-Polk County	
NFIP Floodplain Administrator	No	
Bomb and/or Arson Squad	No	

**Table 2.13. Elkhart Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Emergency Response Team	No	
Hazardous Materials Expert	No	
Local Emergency Planning Committee	No-Polk County	
County Emergency Management Commission	Yes-Polk County	
Sanitation Department	Contractor	
Transportation Department	No-Public Works	
Economic Development Department	No	
Housing Department	No	
Planning Consultant	Not Reported	
Regional Planning Agencies	Not Reported	
Historic Preservation	No	
Non-Governmental Organizations (NGOs)		
American Red Cross	No	
Salvation Army	No	
Veterans Groups	No	
Environmental Organization	No	
Homeowner Associations	No	
Neighborhood Associations	No	
Chamber of Commerce	No	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	No	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	No	

Source: Data Collection Guide, 2018

## 2.2.9 City of Grimes

The City of Grimes is a small city in west-central Polk County. It is governed by a Mayor, a City Administrator and 5-member Council. It had an estimated 2016 population of 10,422, up over 26 percent from the 2010 population of 8,246.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.14** that follows:

- Fire Department provides annual fire prevention training.
- The City has three outdoor warning sirens which are activated by Polk County Dispatch.

**Table 2.14. Grimes Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes, 2018	
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes, 2018	
Local Emergency Plan	Yes, 2017	
County Emergency Plan	Yes, 2017	
Local Recovery Plan	Not Reported	
County Recovery Plan	Not Reported	
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes, 2009	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	Yes, 2018	
Transportation Plan	Yes, 2015	
Land-use Plan	Yes, 2018	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	Yes, 2006	
Firewise or other fire mitigation plan	Not Reported	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Not Reported	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	City Ordinance 165, 165A, 165B
Building Code	Yes	IBC 2015, July 2017
Floodplain Ordinance	Yes	Chapter 165.33
Subdivision Ordinance	Yes	Chapter 166
Tree Trimming Ordinance	Yes	Chapter 151
Nuisance Ordinance	Yes	Chapter 50
Storm Water Ordinance	Yes	Chapter 102, January 2015
Drainage Ordinance	Yes	Chapter 102, January 2015
Site Plan Review Requirements	Yes	Chapter 165
Historic Preservation Ordinance	Yes	Chapter 165.50
Landscape Ordinance	Yes	Chapter 165, 165A, 165B

**Table 2.14. Grimes Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Iowa Wetlands and Riparian Areas Conservation Plan	Not Reported	
Debris Management Plan	Not Reported	
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	Chapter 165
Codes Building Site/Design	Yes	Chapter 165
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	Yes	
Hazard Awareness Program	Not Reported	
National Weather Service (NWS) Storm Ready	Yes	Through Polk County
Building Code Effectiveness Grading (BCEGs)	6	
ISO Fire Rating	3Y	
Economic Development Program	Yes	Grimes Chamber of Economic Dev
Land Use Program	Yes	Comprehensive Plan 2018
Public Education/Awareness	Yes	Fire Safety, Storm Water
Property Acquisition	Not Reported	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	Not Reported	
Hazard Analysis/Risk Assessment (County)	Not Reported	
Flood Insurance Maps	Yes, April 2017	
FEMA Flood Insurance Study (Detailed)	Yes, 2017	
Evacuation Route Map	Not Reported	
Critical Facilities Inventory	Not Reported	
Vulnerable Population Inventory	Not Reported	
Land Use Map	Yes	Grimes Comprehensive Plan 2018
<b>Staff/Department</b>		
Building Code Official	Yes	Scott Clyce
Building Inspector	Yes	Scott Clyce
Mapping Specialist (GIS)	Yes	Fox Engineering
Engineer	Yes	John Gade
Development Planner	Yes	Fox Engineering
Public Works Official	Yes	Weston Wonder
Emergency Management Coordinator	Yes	Jim Clark
NFIP Floodplain Administrator	Yes	John Gade
Bomb and/or Arson Squad	Not Reported	

**Table 2.14. Grimes Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Emergency Response Team	Yes	Johnston-Grimes Metropolitan Fire Department
Hazardous Materials Expert	Not Reported	
Local Emergency Planning Committee	Not Reported	
County Emergency Management Commission	Not Reported	
Sanitation Department	Yes	Waste Connections
Transportation Department	Not Reported	
Economic Development Department	Yes	Brian Buethe
Housing Department	Yes	Building Admin., Scott Clyce
Planning Consultant	Not Reported	
Regional Planning Agencies	Not Reported	
Historic Preservation	Not Reported	
Non-Governmental Organizations (NGOs)		
American Red Cross	Yes	Des Moines
Salvation Army	Yes	Des Moines
Veterans Groups	Yes	
Environmental Organization	Not Reported	
Homeowner Associations	Yes	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	Lions, Kiwanis
Local Funding Availability		
Ability to apply for Community Development Block Grants	Not Reported	
Ability to fund projects through Capital Improvements funding	Not Reported	
Authority to levy taxes for a specific purpose	Not Reported	
Fees for water, sewer, gas, or electric services	Not Reported	
Impact fees for new development	Not Reported	
Ability to incur debt through general obligation bonds	Not Reported	
Ability to incur debt through special tax bonds	Not Reported	
Ability to incur debt through private activities	Not Reported	
Ability to withhold spending in hazard prone areas	Not Reported	

Source: Data Collection Guide, 2018

## 2.2.10 City of Johnston

The City of Johnston is a city in west-central Polk County. It is governed by a Mayor, a City Administrator and 5-member Council. It had an estimated 2016 population of 19,491, up nearly 13 percent from the 2010 population of 17,278.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.15** that follows:

- Fire Department provides fire safety tips and home safety as part of open house and through the schools during fire prevention week.
- The City has eight outdoor warning sirens which are activated by Polk County Dispatch.

**Table 2.15. Johnston Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Comprehensive Plan	Yes, December 6, 2010	<a href="http://www.cityofjohnston.com/109/Comprehensive-Plan">http://www.cityofjohnston.com/109/Comprehensive-Plan</a>
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes, January 16, 2018	<a href="http://www.cityofjohnston.com/631/Capital-Improvement-Plan">http://www.cityofjohnston.com/631/Capital-Improvement-Plan</a>
Local Emergency Plan	Yes	Polk County Comprehensive Emergency Plan with some local building emergency plans and continuity of government documents
County Emergency Plan	Yes	Polk County Comprehensive Emergency Plan
Local Recovery Plan	Yes	Part of Polk County Comprehensive Emergency plan with local Continuity of Government Documents
County Recovery Plan	Yes	Polk County Comprehensive Emergency Plan
Local Mitigation Plan	Yes	Polk County Comprehensive Emergency Plan
County Mitigation Plan	Yes	Polk County Comprehensive Emergency Plan
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	Yes, Economic Development Manager hired in 2016	<a href="http://www.cityofjohnston.com/DocumentCenter/View/4016/2016-Development-Summary">http://www.cityofjohnston.com/DocumentCenter/View/4016/2016-Development-Summary</a>
Transportation Plan	Yes, Part of Comp Plan	<a href="http://www.cityofjohnston.com/DocumentCenter/View/34/Comprehensive-Plan-Chapter-6-Transportation">http://www.cityofjohnston.com/DocumentCenter/View/34/Comprehensive-Plan-Chapter-6-Transportation</a>
Land-use Plan	Yes, Part of Comp Plan	<a href="http://www.cityofjohnston.com/DocumentCenter/View/33/Comprehensive-Plan-Chapter-5-Land-Use">http://www.cityofjohnston.com/DocumentCenter/View/33/Comprehensive-Plan-Chapter-5-Land-Use</a>
Flood Mitigation Assistance (FMA) Plan	No	

**Table 2.15. Johnston Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Watershed Plan	Yes, February 1, 2010	<a href="http://www.cityofjohnston.com/DocumentCenter/View/166/Watershed-Assessment">http://www.cityofjohnston.com/DocumentCenter/View/166/Watershed-Assessment</a>
Firewise or other fire mitigation plan	Not Reported	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Not Reported	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes, since 1970	<a href="http://www.cityofjohnston.com/encode">www.cityofjohnston.com/encode</a>
Building Code	Version: 2015 IBC, IMC, IPC, UEC	Fire Code 2015 IRC & IFC
Floodplain Ordinance	Not Reported	
Subdivision Ordinance	Yes, since 1970	Chapter 180 of Zoning Ordinance <a href="http://www.cityofjohnston.com/encode">www.cityofjohnston.com/encode</a>
Tree Trimming Ordinance	Not Reported	
Nuisance Ordinance	Yes	Chapters 50-56 of City Code
Storm Water Ordinance	Yes	Chapter 145 of City Code
Drainage Ordinance	Yes	Chapter 102 of City Code
Site Plan Review Requirements	Yes	Chapter 170 of Zoning Ordinance
Historic Preservation Ordinance	No	
Landscape Ordinance	Yes	Chapter 166.32 of Zoning Ordinance
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	Yes	Debris Management Plan (PC ESF #3D)
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	Chapter 165-169 of Zoning Ordinance
Codes Building Site/Design	Yes	Chapter 155 of City Code
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	Not reported	
National Weather Service (NWS) Storm Ready	Yes	Through Polk County
Building Code Effectiveness Grading (BCEGs)	Not Reported	
ISO Fire Rating	3Y	
Economic Development Program	Yes	
Land Use Program	Yes	
Public Education/Awareness	Yes	Fire Department Public Education and Law Enforcement Community Outreach Officer
Property Acquisition	Not Reported	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	No	

**Table 2.15. Johnston Mitigation Capabilities**

Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	Fire Department, Police Department, Public Works
<b>Capabilities</b>	<b>Status</b>	<b>Comments</b>
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Not Reported	
Hazard Analysis/Risk Assessment (County)	Not Reported	
Flood Insurance Maps	Yes	
FEMA Flood Insurance Study (Detailed)	Yes	
Evacuation Route Map	No	
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	Yes	
Land Use Map	Yes	Comprehensive Plan
<b>Staff/Department</b>		
Building Code Official	Yes	
Building Inspector	Yes	
Mapping Specialist (GIS)	Yes	
Engineer	By Contract	Foth Engineering
Development Planner	Yes	
Public Works Official	Yes	Public Works Director
Emergency Management Coordinator	Yes	Through Polk County
NFIP Floodplain Administrator	Yes	
Bomb and/or Arson Squad	Yes	Metro Star
Emergency Response Team	Yes	Metro Star and SERT
Hazardous Materials Expert	Yes	Des Moines FD HazMat Team
Local Emergency Planning Committee	Not Reported	
County Emergency Management Commission	Yes	Police Chief & Fire Chief Reps.
Sanitation Department	Not Reported	
Transportation Department	Not Reported	
Economic Development Department	Yes	
Housing Department	Yes	
Planning Consultant	No	
Regional Planning Agencies	Yes	
Historic Preservation	No	
<b>Non-Governmental Organizations (NGOs)</b>		
American Red Cross	Yes	Des Moines
Salvation Army	Yes	Des Moines
Veterans Groups	Yes	
Environmental Organization	Not Reported	
Homeowner Associations	Several	
Neighborhood Associations	Several	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Lions, Rotary, Kiwanis	
<b>Local Funding Availability</b>		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	

**Table 2.15. Johnston Mitigation Capabilities**

Capabilities	Status	Comments
Local Funding Availability		
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	No	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	No	
Ability to incur debt through private activities	No	
Ability to withhold spending in hazard prone areas	No	

Source: Data Collection Guide, 2018

## 2.2.11 City of Mitchellville

The City of Mitchellville is located in east Polk County. It had an estimated 2016 population of 2,271, up almost 1 percent from the 2010 population of 2,254. It is governed by a Mayor and 5-member Council.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.16** that follows:

- The City has several programs to include Stop Drop and Roll, Smoke Detector Testing and Battery Replacement, and citizens' police academy.
- The City has one outdoor warning siren and it is activated by the Polk County Dispatch.
- The City also uses Code Red and Reverse 911.

**Table 2.16. Mitchellville Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes	Adopted 5/7/2018
Builder's Plan	No	
Capital Improvement Plan	Yes	Adopted 2012
Local Emergency Plan	No	
County Emergency Plan	Yes	Polk County EMA
Local Recovery Plan	Yes	Polk County EMA
County Recovery Plan	Yes	Polk County EMA
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes, 2009	Polk County EMA
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	No	
Transportation Plan	No	
Land-use Plan	Yes	Adopted 5/7/2018
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	No	
Firewise or other fire mitigation plan	No	
School Mitigation Plan	No	
Critical Facilities Plan (Mitigation/Response/Recovery)	No	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	Adopted
Building Code	Yes	Adopted 2017
Floodplain Ordinance	No	
Subdivision Ordinance	No	
Tree Trimming Ordinance	Yes	
Nuisance Ordinance	Yes	
Storm Water Ordinance	No	

**Table 2.16. Mitchellville Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Drainage Ordinance	No	
Site Plan Review Requirements	Yes	
Historic Preservation Ordinance	No	
Landscape Ordinance	No	
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	No	
<b>Program</b>		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	No	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	No	
Building Code Effectiveness Grading (BCEGs)	No	
ISO Fire Rating	Rating 6	
Economic Development Program	Yes	
Land Use Program	Yes	
Public Education/Awareness	No	
Property Acquisition	No	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	No	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	No	
Mutual Aid Agreements	Yes	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	No	
Hazard Analysis/Risk Assessment (County)	No	
Flood Insurance Maps	No	
FEMA Flood Insurance Study (Detailed)	No	
Evacuation Route Map	No	
Critical Facilities Inventory	No	
Vulnerable Population Inventory	No	
Land Use Map	Yes	
<b>Staff/Department</b>		
Building Code Official	Jason Van Ausdall	
Building Inspector	Jason Van Ausdall	
Mapping Specialist (GIS)	Not Reported	
Engineer	Tony Bellizzi	
Development Planner	Not Reported	
Public Works Official	Wayne Patterson	

**Table 2.16. Mitchellville Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Emergency Management Coordinator	Not Reported	
NFIP Floodplain Administrator	Not Reported	
Bomb and/or Arson Squad	Not Reported	
Emergency Response Team	Not Reported	
Hazardous Materials Expert	Not Reported	
Local Emergency Planning Committee	Not Reported	
County Emergency Management Commission	Not Reported	
Sanitation Department	Metro Waste Authority	
Transportation Department	Not Reported	
Economic Development Department	Not Reported	
Housing Department	Not Reported	
Planning Consultant	Not Reported	
Regional Planning Agencies	Not Reported	
Historic Preservation	Not Reported	
Non-Governmental Organizations (NGOs)		
American Red Cross	Not Reported	
Salvation Army	Not Reported	
Veterans Groups	Yes	American Legion
Environmental Organization	Not Reported	
Homeowner Associations	Not Reported	
Neighborhood Associations	Not Reported	
Chamber of Commerce	Not Reported	
Community Organizations (Lions, Kiwanis, etc.)	Yes	Lions
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Yes	

Source: Data Collection Guide, 2018

## 2.2.12 City of Pleasant Hill

The City of Pleasant Hill is a small city in southeast Polk County. It is governed by a Mayor, City Manager and 5-member Council. It had an estimated 2016 population of 9,406, up 7 percent from the 2010 population of 8,785.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.17** that follows:

- The Pleasant Hill Fire and Police Departments provide education on public safety issues. The Storm Water Coordinator also provides training in areas related to the environment and storm water.
- The City has installed back-up generators at their facilities including city hall, library, police station, fire station and youth center. New back-up generators have also been installed at two sanitary sewer lift stations.
- The City constructed a new culvert at 100 Sloans Way.
- The City has eight outdoor warning sirens.
- The City utilizes Reverse 911 as an additional community warning system.

**Table 2.17. Pleasant Hill Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Comprehensive Plan	Yes	
Builder's Plan	No	
Capital Improvement Plan	Yes	
Local Emergency Plan	Yes	
County Emergency Plan	Yes	
Local Recovery Plan	Not Reported	
County Recovery Plan	Yes	
Local Mitigation Plan	Yes	
County Mitigation Plan	Yes	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	Yes	
Transportation Plan	Yes	On DMAMPO Website
Land-use Plan	Yes	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	No	
Firewise or other fire mitigation plan	No	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Not Reported	
Policies/Ordinance		
Zoning Ordinance	Yes	Chapter 165-170
Building Code	Yes	
Floodplain Ordinance	Yes	Chapter160
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	Yes	

**Table 2.17. Pleasant Hill Mitigation Capabilities**

Capabilities	Status	Comments
Nuisance Ordinance	Yes	
Storm Water Ordinance	Yes	
Drainage Ordinance	Yes	
Site Plan Review Requirements	Yes	
Historic Preservation Ordinance	Not Reported	
Landscape Ordinance	Yes	
Iowa Wetlands and Riparian Areas Conservation Plan	Yes	
Debris Management Plan	Not Reported	
Program		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	Not Reported	
National Weather Service (NWS) Storm Ready	Yes	Polk County
Building Code Effectiveness Grading (BCEGs)	Not Reported	
ISO Fire Rating	4/4x	
Economic Development Program	Not Reported	
Land Use Program	Not Reported	
Public Education/Awareness	Yes	Fire, Police, Storm Water
Property Acquisition	Not Reported	
Planning/Zoning Boards	Yes	3 Boards
Stream Maintenance Program	No	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	Fire
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	RISK Map	
Hazard Analysis/Risk Assessment (County)	RISK Map	
Flood Insurance Maps	RISK Map	
FEMA Flood Insurance Study (Detailed)	RISK Map	
Evacuation Route Map	Not Reported	
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	Not Reported	
Land Use Map	Yes	
Staff/Department		
Building Code Official	Yes	1
Building Inspector	Yes	2
Mapping Specialist (GIS)	Yes	1
Engineer	On Contract	Snyder & Associates
Development Planner	Yes	1
Public Works Official	Yes	1
Emergency Management Coordinator	County	

**Table 2.17. Pleasant Hill Mitigation Capabilities**

Capabilities	Status	Comments
NFIP Floodplain Administrator	Not Reported	
Bomb and/or Arson Squad	DMPD	
Emergency Response Team	EMA	
Hazardous Materials Expert	DMFD	
Local Emergency Planning Committee	Not Reported	
County Emergency Management Commission	Yes	
Sanitation Department	Yes	
Transportation Department	Yes	DMAMPO
Economic Development Department	Yes	1
Housing Department	No	
Planning Consultant	Yes	Various
Regional Planning Agencies	Yes	Various
Historic Preservation	Not Reported	
Non-Governmental Organizations (NGOs)		
American Red Cross	No	
Salvation Army	No	
Veterans Groups	No	
Environmental Organization	No	
Homeowner Associations	Yes	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	No	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Yes	

Source: Data Collection Guide, 2018

## 2.2.13 City of Polk City

The City of Polk City is a small city in the northwest corner of Polk County. It is governed by a Mayor and 5-member Council. It had an estimated 2016 population of 4,115, up over 20 percent from the 2010 population of 3,418.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.18** that follows:

- The City has one outdoor warning siren.

**Table 2.18. Polk City Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes, updated 2015	
Builder's Plan	No	
Capital Improvement Plan	No	
Local Emergency Plan	Not Reported	
County Emergency Plan	Not Reported	
Local Recovery Plan	Not Reported	
County Recovery Plan	Not Reported	
Local Mitigation Plan	Yes	Part of County
County Mitigation Plan	Yes	
Local Mitigation Plan (PDM)	Not Reported	
County Mitigation Plan (PDM)	Not Reported	
Economic Development Plan	No	
Transportation Plan	No	
Land-use Plan	Yes	Part of Comp Plan
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	No	
Firewise or other fire mitigation plan	Not Reported	
School Mitigation Plan	No	
Critical Facilities Plan (Mitigation/Response/Recovery)	Not Reported	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	
Building Code	IBC-2012	
Floodplain Ordinance	Not Reported	
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	Yes	
Nuisance Ordinance	Yes	
Storm Water Ordinance	Not Reported	
Drainage Ordinance	Yes	
Site Plan Review Requirements	Yes	
Historic Preservation Ordinance	Yes	
Landscape Ordinance	Not Reported	
Iowa Wetlands and Riparian Areas Conservation Plan	Not Reported	
<b>Policies/Ordinance</b>		
Debris Management Plan	Not Reported	

**Table 2.18. Polk City Mitigation Capabilities**

Capabilities	Status	Comments
Program		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	No	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	Yes	
Building Code Effectiveness Grading (BCEGs)	Not Reported	
ISO Fire Rating	4	
Economic Development Program	No	
Land Use Program	Yes	
Public Education/Awareness	No	
Property Acquisition	No	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	No	
Tree Trimming Program	No	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Currently Being Updated	
Hazard Analysis/Risk Assessment (County)	Currently Being Updated	
Flood Insurance Maps	Currently Being Updated	
FEMA Flood Insurance Study (Detailed)	Currently Being Updated as part of Risk MAP	
Evacuation Route Map	Not Reported	
Critical Facilities Inventory	Currently Being Updated	
Vulnerable Population Inventory	Not Reported	
Land Use Map	Yes	
Staff/Department		
Building Code Official	Yes	Independent Contractor
Building Inspector	Yes	
Mapping Specialist (GIS)	Yes	
Engineer	Yes	
Development Planner	No	
Public Works Official	Yes	
Emergency Management Coordinator	County	
NFIP Floodplain Administrator	Not Reported	
Bomb and/or Arson Squad	Yes	Des Moines
Emergency Response Team	Yes	Des Moines
Hazardous Materials Expert	Not Reported	
Staff/Department		
Local Emergency Planning Committee	Yes	
County Emergency Management Commission	Yes	
Sanitation Department	No	
Transportation Department	Not Reported	

**Table 2.18. Polk City Mitigation Capabilities**

Capabilities	Status	Comments
Economic Development Department	No	
Housing Department	No	
Planning Consultant	Yes, various	
Regional Planning Agencies	Yes, various	
Historic Preservation	Yes	
<b>Non-Governmental Organizations (NGOs)</b>		
American Red Cross	Not Reported	
Salvation Army	Not Reported	
Veterans Groups	Not Reported	
Environmental Organization	Not Reported	
Homeowner Associations	Not Reported	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
<b>Local Funding Availability</b>		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Not Reported	

Source: Data Collection Guide, 2018

## 2.2.14 City of Runnells

The City of Runnells is a small city in southeast Polk County. It is governed by a Mayor and 5-member Council. It had an estimated 2016 population of 514, up 1.4 percent from the 2010 population of 507

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.19** that follows:

- The City has one outdoor warning siren.

**Table 2.19. Runnells Mitigation Capabilities**

Capabilities	Comments
Planning Capabilities	
Comprehensive Plan	Yes-In Progress
Builder's Plan	Yes-In Progress
Capital Improvement Plan	No
Local Emergency Plan	No
County Emergency Plan	through Polk County
Local Recovery Plan	No
County Recovery Plan	through Polk County
Local Mitigation Plan	Yes, 2009
County Mitigation Plan	Yes, 2009
Local Mitigation Plan (PDM)	No
County Mitigation Plan (PDM)	No
Economic Development Plan	No
Transportation Plan	No
Land-use Plan	In progress
Flood Mitigation Assistance (FMA) Plan	No
Watershed Plan	No
Firewise or other fire mitigation plan	No
School Mitigation Plan	Not Reported
Critical Facilities Plan (Mitigation/Response/Recovery)	No
Policies/Ordinance	
Zoning Ordinance	In progress
Building Code	Not Reported
Floodplain Ordinance	Not Reported
Subdivision Ordinance	Not Reported
Tree Trimming Ordinance	No
Nuisance Ordinance	No
Storm Water Ordinance	No
Drainage Ordinance	No
Site Plan Review Requirements	No
Historic Preservation Ordinance	No
Landscape Ordinance	No
Debris Management Plan	No
Iowa Wetlands and Riparian Areas Conservation Plan	No

**Table 2.19. Runnells Mitigation Capabilities**

Capabilities	Comments
Program	
Zoning/Land Use Restrictions	No
Codes Building Site/Design	Not Reported
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes
NFIP Community Rating System (CRS) Participating Community	No
Hazard Awareness Program	Not Reported
National Weather Service (NWS) Storm Ready	No
Building Code Effectiveness Grading (BCEGs)	Not Reported
ISO Fire Rating	Not Reported
Economic Development Program	through our urban renewal plan
Land Use Program	Not Reported
Public Education/Awareness	Not Reported
Property Acquisition	Not Reported
Planning/Zoning Boards	Not Reported
Stream Maintenance Program	Not Reported
Tree Trimming Program	Not Reported
Engineering Studies for Stream (Local/County/Regional)	Not Reported
Mutual Aid Agreements	Yes
Studies/Reports/Maps	
Hazard Analysis/Risk Assessment (Local)	Currently Being Updated
Hazard Analysis/Risk Assessment (County)	Currently Being Updated
Flood Insurance Maps	Being Updated through Risk MAP
FEMA Flood Insurance Study (Detailed)	Being Updated through Risk MAP
Evacuation Route Map	Not Reported
Critical Facilities Inventory	Currently Being Updated
Vulnerable Population Inventory	Not Reported
Land Use Map	Not Reported
Staff/Department	
Building Code Official	Contracted
Building Inspector	Contracted
Mapping Specialist (GIS)	No
Engineer	No
Development Planner	no
Public Works Official	yes
Emergency Management Coordinator	yes
NFIP Floodplain Administrator	no
Bomb and/or Arson Squad	no
Emergency Response Team	yes
Hazardous Materials Expert	no
Local Emergency Planning Committee	no
County Emergency Management Commission	no
Sanitation Department	no
Transportation Department	N/A
Economic Development Department	No
Housing Department	Not Reported
Planning Consultant	Yes, various
Regional Planning Agencies	Yes, various
Historic Preservation	Not Reported
Non-Governmental Organizations (NGOs)	
American Red Cross	No
Salvation Army	No

**Table 2.19. Runnells Mitigation Capabilities**

<b>Capabilities</b>	<b>Comments</b>
Non-Governmental Organizations (NGOs)	
Veterans Groups	No
Environmental Organization	No
Homeowner Associations	No
Neighborhood Associations	No
Chamber of Commerce	No
Community Organizations (Lions, Kiwanis, etc.)	Legion/Lions/Boy Scouts/4-H/Legion Awx/Rapco/Historical
Local Funding Availability	
Ability to apply for Community Development Block Grants	No
Ability to fund projects through Capital Improvements funding	Yes
Authority to levy taxes for a specific purpose	Yes
Fees for water, sewer, gas, or electric services	Yes
Impact fees for new development	Not Reported
Ability to incur debt through general obligation bonds	Not Reported
Ability to incur debt through special tax bonds	Not Reported
Ability to incur debt through private activities	Not Reported
Ability to withhold spending in hazard prone areas	Not Reported

Source: Data Collection Guide, 2018

## 2.2.15 City of Urbandale

The City of Urbandale is the fourth largest city in Polk County. It had an estimated 2016 population of 41,578, up over 5 percent from the 2010 population of 39,463. It is governed by a Mayor and 5-member Council.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.20** that follows:

- The City of Urbandale has numerous programs including fire safety checks, smoke detector replacement and battery replacement, Block Party and child birthday party appearances, Business Safety Inspections and preplan visits, emergency procedure development and planning, fire extinguisher training, Citizen Fire Academy, Kids Fire Academy, Fire Prevention Week Open House, EMS Week Open House, blood pressure checks, First Aid Training, Infant, Child, and Adult CPR & AED Training, car seat checks/installations, fire station tours, Fall & Fire Prevention for Older Adults, school, daycare, and business fire drills and safety presentations, and a Juvenile Fire Intervention Program.
- Urbandale is partnered with Des Moines Water Works to develop a conservation plan for peak usage periods.
- The City has implemented several projects to increase mitigation capabilities including purchase of fire apparatus, constructed a fire training facility, renovated the living quarters of fire station # 42, and constructed an access road for the police department and tornado shelter construction at Walker Johnson Park. Other projects are proposed or underway are: construction of new fire station in the NW area of Urbandale, public works/parks department satellite field maintenance facility, future fire truck replacement, traffic signal preemption, several bridge projects, storm sewer projects and street improvements including interchange projects. The City has twelve outdoor warning sirens. Two of those are shared with Clive and are activated by WestCom dispatch center.
- Urbandale had access to Code Red and also uses social media (Facebook, Twitter, LinkedIn) and text messaging alerting.
- The City has completed a tornado safe room at Walker Johnson Park - 8900 Douglas Ave. The intended use of the shelter is for the population of the Walker Johnson Park.

**Table 2.20. Urbandale Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
Comprehensive Plan	Yes, 2015	Approved and published @: <a href="http://www.urbandale.org/491/comprehensive-plan">http://www.urbandale.org/491/comprehensive-plan</a>
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes	Approved and published January 2019 and found @: <a href="https://www.urbandale.org/DocumentCenter/View/8832/2019-2024-Capital-Improvement-Plan">https://www.urbandale.org/DocumentCenter/View/8832/2019-2024-Capital-Improvement-Plan</a>
Local Emergency Plan	Yes, 2016	Currently being updated.
County Emergency Plan	Yes	
Local Recovery Plan	Yes	Department specific plans in place late 2017.

**Table 2.20. Urbandale Mitigation Capabilities**

Capabilities	Status	Comments
Planning Capabilities		
County Recovery Plan	Yes, 2014	
Local Mitigation Plan	Yes	
County Mitigation Plan	Yes	2014, and this 2019 update.
Local Mitigation Plan (PDM)	Not Reported	
County Mitigation Plan (PDM)	Not Reported	
Economic Development Plan	Yes	Version 3 - approved 6/19/2018
Transportation Plan	Yes	The Des Moines Area MPO has the Transportation Improvement Program (TIP) that is approved each summer is a three year plan. This is all projects with federal funding. The MPO also has the Transportation Capital Improvement Program (TCIP) that is updated each summer also. It includes all other transportation project other than federal funded projects. We also have the CIP which serves us locally.
Land-use Plan	Yes	This is part of our Comprehensive Plan
Flood Mitigation Assistance (FMA) Plan	Not Reported	
Watershed Plan	Yes	We are now members of the Walnut Creek Watershed Management Authority (WMA). The Walnut Creek WMA has a watershed plan that has been adopted by the WMA and the City Council has accepted and filed. We are also members of the Beaver Creek WMA. They are working on a watershed plan, but it has not been completed. Urbandale has also approved a watershed plan just for ourselves and it has been 5 years since it has been updated with the City Council.
Firewise or other fire mitigation plan	No	
School Mitigation Plan	No	
Critical Facilities Plan (Mitigation/Response/Recovery)	No	
Policies/Ordinance		
Zoning Ordinance	Yes, 2015	Current through 1/2/20198
Building Code	Yes, 2012 IBC & IRC	
Floodplain Ordinance	Yes	Ordinance #2018-18 - Adopted on 1/2/2019
Subdivision Ordinance	Yes, 2015	2015
Tree Trimming Ordinance	Yes	Chapter 154 of the Municipal Code of the City of Urbandale, <a href="http://www.amlegal.com/codes/client/urbandale_ia/">http://www.amlegal.com/codes/client/urbandale_ia/</a>
Nuisance Ordinance	Yes	Chapters 97 and 154 of the Municipal Code of the City of Urbandale, <a href="http://www.amlegal.com/codes/client/urbandale_ia/">http://www.amlegal.com/codes/client/urbandale_ia/</a>
Storm Water Ordinance	Yes	Chapter 56 of the Municipal Code of the City of Urbandale, <a href="http://www.amlegal.com/codes/client/urbandale_ia/">http://www.amlegal.com/codes/client/urbandale_ia/</a>
Drainage Ordinance	Yes	Chapter 56 of the Municipal Code of the City of Urbandale, <a href="http://www.amlegal.com/codes/client/urbandale_ia/">http://www.amlegal.com/codes/client/urbandale_ia/</a>
Site Plan Review Requirements	Yes, 2015	
Historic Preservation Ordinance	No	
Landscape Ordinance	Yes	Part of the zoning ordinance
Iowa Wetlands and Riparian Areas Conservation Plan	No	

**Table 2.20. Urbandale Mitigation Capabilities**

Capabilities	Status	Comments
Policies/Ordinance		
Debris Management Plan	Yes	Urbandale Vegetative Debris Management Policy, adopted 10/14/2014
Program		
Zoning/Land Use Restrictions	Yes	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	N/A	
NFIP Community Rating System (CRS) Participating Community	N/A	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	Yes	Polk County holds this certification and each entity in Polk County is named
Building Code Effectiveness Grading (BCEGs)	N/A	
ISO Fire Rating	ISO 2/2x	
Economic Development Program	Yes	
Land Use Program	Yes	
Public Education/Awareness	Yes	Both Police & Fire have public education programs.
Property Acquisition	Yes	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	We inspect 25% of our creeks each year and do stream mitigation projects totaling \$125,000 each year.
Tree Trimming Program	Yes	MidAmerican Energy
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Yes	Fires Standards of Cover completed 2017
Hazard Analysis/Risk Assessment (County)	Yes	
Flood Insurance Maps	Yes	Urbandale's FEMA FIRMs was effective 2/1/2019, as passed with Ordinance 2018-08
FEMA Flood Insurance Study (Detailed)	Yes	
Evacuation Route Map	No	
Critical Facilities Inventory	Yes	
Vulnerable Population Inventory	No	
Land Use Map	Yes	
Staff/Department		
Building Code Official	Yes	Building Department
Building Inspector	Yes	Building Department.
Mapping Specialist (GIS)	Yes	Engineering Department

**Table 2.20. Urbandale Mitigation Capabilities**

Capabilities	Status	Comments
Engineer	Yes	Engineering Department
Development Planner	Yes	Community Development
Public Works Official	Yes	PW/E Department
Emergency Management Director	Yes	Fire/Emergency Preparedness
NFIP Floodplain Administrator	Not Reported	
Bomb and/or Arson Squad	Yes	Mutual Aid Agreement
Emergency Response Team	Yes	Mutual Aid Agreement
Hazardous Materials Expert	Yes	Awareness/Ops in house - mutual aid
Local Emergency Planning Committee	No	
County Emergency Management Commission	Yes	Mayor/Fire Chief
Sanitation Department	Yes	Public Works
Transportation Department	No	
Economic Development Department	Yes	
Housing Department	No	
Planning Consultant	Not Reported	
Regional Planning Agencies	Yes	
Historic Preservation	No	
Non-Governmental Organizations (NGOs)		
American Red Cross	Yes	Greater Iowa Office
Salvation Army	Yes	Des Moines
Veterans Groups	Yes	American Legion Post 663
Environmental Organization	No	
Homeowner Associations	Yes	Numerous HOA in Urbandale.
Neighborhood Associations	Yes	Numerous NAs in Urbandale.
Chamber of Commerce	Yes	<a href="http://uniquelyurbandale.com/">http://uniquelyurbandale.com/</a>
Community Organizations (Lions, Kiwanis, etc.)	Yes	Numerous community organizations.
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Yes	

Source: Data Collection Guide, 2018

## 2.2.16 City of West Des Moines

The City of West Des Moines is the second largest city in Polk County. It is governed by a Mayor, City Manager and 5-member Council. It had an estimated 2016 population of 61,624, up nearly 9 percent from the 2010 population of 56,609.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.21** that follows:

- The City utilizes newsletters, websites, emails, and presentations to educate the public on preparedness topics.
- The City has 14 outdoor warning sirens which are activated by the E911 center or Fire Station Headquarters.
- West Des Moines has cable override, Code Red and e-mails alerting programs in place.

**Table 2.21. West Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Adopted 2010: Updated started	
Builder's Plan	No	
Capital Improvement Plan	Yes, annual	
Local Emergency Plan	Yes, annual	
County Emergency Plan	Yes	
Local Recovery Plan	No	
County Recovery Plan	Yes	
Local Mitigation Plan	Yes	
County Mitigation Plan	Yes	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	No	
Economic Development Plan	Yes, June 2017	
Transportation Plan	No	
Land-use Plan	Yes	2010 as part of adopted Comprehensive Plan: Update started
Flood Mitigation Assistance (FMA) Plan	Yes	
Watershed Plan	Yes	
Firewise or other fire mitigation plan	No	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	No	
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes	1996: numerous amendments to sections as needed since
Building Code	Yes	2015 IBC & IRC
Floodplain Ordinance	Yes, current	
Subdivision Ordinance	Yes	
Tree Trimming Ordinance	No	
Nuisance Ordinance	Yes	
Storm Water Ordinance	Yes	

**Table 2.21. West Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
Policies/Ordinance		
Drainage Ordinance	Yes	
Site Plan Review Requirements	Yes	Part of Zoning Code & Application Submittal Checklist: application update in progress
Historic Preservation Ordinance	n/a	
Landscape Ordinance	Yes	Part of Zoning; last major update in 2009, amendments as needed since
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan Program	Under Development	
Zoning/Land Use Restrictions	Zoning code	
Codes Building Site/Design	X	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes, current	
NFIP Community Rating System (CRS) Participating Community	No	
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	No	
Building Code Effectiveness Grading (BCEGs)	Yes	Rating 2 for Commercial & 3 for Residential
ISO Fire Rating	2/2Y	
Economic Development Program	Yes	
Land Use Program	Yes	Comprehensive Plan & Zoning Code
Public Education/Awareness	Yes	
Property Acquisition	City Codes	
Planning/Zoning Boards	Yes	
Stream Maintenance Program	Yes	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes	
Mutual Aid Agreements	Yes	
Studies/Reports/Maps		
Hazard Analysis/Risk Assessment (Local)	Yes, 2015	
Hazard Analysis/Risk Assessment (County)	Yes	Polk County EM
Flood Insurance Maps	Yes, being updated	
FEMA Flood Insurance Study (Detailed)	Yes, being updated	
Evacuation Route Map	Yes	
Critical Facilities Inventory	No	
Vulnerable Population Inventory	No	
Land Use Map	Yes	Comprehensive Plan
Staff/Department		
Building Code Official	Yes - 1	
Building Inspector	Yes - 7	
Mapping Specialist (GIS)	Yes	
Engineer	Yes	
Development Planner	Yes - 6	
Public Works Official	Yes	

**Table 2.21. West Des Moines Mitigation Capabilities**

Capabilities	Status	Comments
Staff/Department		
Emergency Management Coordinator	Yes	
NFIP Floodplain Administrator	Yes	
Bomb and/or Arson Squad	Yes	
Emergency Response Team	Yes	
Hazardous Materials Expert	No	
Local Emergency Planning Committee	Yes	
County Emergency Management Commission	Yes	
Sanitation Department	Contracted	
Transportation Department	Yes	
Economic Development Department	Yes	
Housing Department	Yes	Part of Comm. & Econ. Dev.
Planning Consultant	Yes	
Regional Planning Agencies	Yes	
Historic Preservation	Yes	
Non-Governmental Organizations (NGOs)		
American Red Cross	Local Chapter	
Salvation Army	Local Chapter	
Veterans Groups	Local Chapter	
Environmental Organization	No	
Homeowner Associations	Yes	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
Local Funding Availability		
Ability to apply for Community Development Block Grants	Yes - Tim Stiles	
Ability to fund projects through Capital Improvements funding	Yes - Tim Stiles	
Authority to levy taxes for a specific purpose	Yes	We are an entitlement city and get an annual appropriation.
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	n/a	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Not Reported	

Source: Data Collection Guide, 2018

## 2.2.17 City of Windsor Heights

The City of Windsor Heights is located in central Polk County. It is governed by a Mayor, City Administrator, and 5-member Council. It had an estimated 2016 population of 4,980, up 120 people from the 2010 population of 4,860.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in 2.22 that follows:

- The City participates in several training programs to include crime prevention, education outreach, NIXLE, Code Red, environmental education.
- The City has one outdoor warning siren which is activated by the Polk County Dispatch.
- Windsor Height also utilizes Code Red, NIXLE and the city website for alerting and notifications.

**Table 2.22. Windsor Heights Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	Yes, 2016	
Builder's Plan	Not Reported	
Capital Improvement Plan	Yes, 2018	
Local Emergency Plan	Not Reported	
County Emergency Plan	Not Reported	
Local Recovery Plan	Not Reported	
County Recovery Plan	Not Reported	
Local Mitigation Plan	Yes, 2009	
County Mitigation Plan	Yes, 2009	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	Yes	
Economic Development Plan	Yes, 2018	
Transportation Plan	Not Reported	
Land-use Plan	Yes, 2016	
Flood Mitigation Assistance (FMA) Plan	Yes, County Plan	
Watershed Plan	Yes, 2016	
Firewise or other fire mitigation plan	Not Reported	
School Mitigation Plan	Not Reported	
Critical Facilities Plan (Mitigation/Response/Recovery)	Yes	Fire SOG
<b>Policies/Ordinance</b>		
Zoning Ordinance	Yes, 2015	
Building Code	Yes, 2012	
Floodplain Ordinance	Yes, 2018	
Subdivision Ordinance	Not Reported	
Tree Trimming Ordinance	Yes, 2015	
Nuisance Ordinance	Yes, 2015	
Storm Water Ordinance	Yes, 2015	
Drainage Ordinance	Yes, 2015	
Site Plan Review Requirements	Yes, 2015	
Historic Preservation Ordinance	No	

**Table 2.22. Windsor Heights Mitigation Capabilities**

Capabilities	Status	Comments
<b>Policies/Ordinance</b>		
Landscape Ordinance	Yes, 2015	
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	Yes	
<b>Program</b>		
Zoning/Land Use Restrictions	Yes, 2016	
Codes Building Site/Design	Yes	
National Flood Insurance Program (NFIP) Participant - Nondelegated	Yes	
NFIP Community Rating System (CRS) Participating Community	Yes, 2018	
Hazard Awareness Program	Not Reported	
National Weather Service (NWS) Storm Ready	Yes	
Building Code Effectiveness Grading (BCEGs)	No	
ISO Fire Rating	Rating: 3	
Economic Development Program	Yes, 2018	
Land Use Program	Not Reported	
Public Education/Awareness	Yes	
Property Acquisition	No	
Planning/Zoning Boards	Yes, 2018	
Stream Maintenance Program	Yes, 2018	
Tree Trimming Program	Yes	
Engineering Studies for Streams (Local/County/Regional)	Yes, 2018	
Mutual Aid Agreements	Yes, 2018	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	Yes, 2019	
Hazard Analysis/Risk Assessment (County)	Yes, 2019	
Flood Insurance Maps	Yes, 2019	
FEMA Flood Insurance Study (Detailed)	Yes, 2019	
Evacuation Route Map	Yes, 2018	
Critical Facilities Inventory	No	
Vulnerable Population Inventory	No	
Land Use Map	Yes, 2016	
<b>Staff/Department</b>		
Building Code Official	Yes	
Building Inspector	Yes	
Mapping Specialist (GIS)	No	
Engineer	Yes, contract	
Development Planner	Yes	
Public Works Official	Yes	
Emergency Management Coordinator	Yes, 28E	
NFIP Floodplain Administrator	Yes	
Bomb and/or Arson Squad	Yes, 28E	
Emergency Response Team	Yes, 28E	
Hazardous Materials Expert	Yes, 28E	
Local Emergency Planning Committee	No	
County Emergency Management Commission	Yes, 28E	
Sanitation Department	No	
Transportation Department	No	
Economic Development Department	No	
Housing Department	No	
Planning Consultant	Yes, various	
Regional Planning Agencies	Yes, various	
Historic Preservation	No	

**Table 2.22. Windsor Heights Mitigation Capabilities**

Capabilities	Status	Comments
<b>Non-Governmental Organizations (NGOs)</b>		
American Red Cross	No	
Salvation Army	No	
Veterans Groups	Yes	
Environmental Organization	Yes	
Homeowner Associations	No	
Neighborhood Associations	Yes	
Chamber of Commerce	Yes	
Community Organizations (Lions, Kiwanis, etc.)	Yes	
<b>Local Funding Availability</b>		
Ability to apply for Community Development Block Grants	Yes	
Ability to fund projects through Capital Improvements funding	Yes	
Authority to levy taxes for a specific purpose	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	No	
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through special tax bonds	Yes	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	Yes	

Source: Data Collection Guide, 2018

## 2.2.18 Delaware Township

The Delaware Township is a township located in central Polk County. It had an estimated 2017 population of 9,190, up over 10 percent from the 2010 population of 8,321. It is governed by 3 member trustees board.

### Mitigation Initiatives/Capabilities

Specific initiatives/capabilities are discussed below as well as in **Table 2.23** that follows:

- Delaware Township has a volunteer fire department.

**Table 2.23. Delaware Township Mitigation Capabilities**

Capabilities	Status	Comments
<b>Planning Capabilities</b>		
Comprehensive Plan	No	
Builder's Plan	No	
Capital Improvement Plan	No	
Local Emergency Plan	No	
County Emergency Plan	Yes	
Local Recovery Plan	No	
County Recovery Plan	Yes	
Local Mitigation Plan	No	
County Mitigation Plan	Yes	
Local Mitigation Plan (PDM)	No	
County Mitigation Plan (PDM)	Yes	
Economic Development Plan	No	
Transportation Plan	No	
Land-use Plan	No	
Flood Mitigation Assistance (FMA) Plan	No	
Watershed Plan	No	
Firewise or other fire mitigation plan	No	
School Mitigation Plan	No	
Critical Facilities Plan (Mitigation/Response/Recovery)	No	
<b>Policies/Ordinance</b>		
Zoning Ordinance	No	
Building Code	No	
Floodplain Ordinance	No	
Subdivision Ordinance	No	
Tree Trimming Ordinance	No	
Nuisance Ordinance	No	
Storm Water Ordinance	No	
Drainage Ordinance	No	
Site Plan Review Requirements	No	
Historic Preservation Ordinance	No	
Landscape Ordinance	No	
Iowa Wetlands and Riparian Areas Conservation Plan	No	
Debris Management Plan	No	
<b>Program</b>		
Zoning/Land Use Restrictions	No	
Codes Building Site/Design	No	
National Flood Insurance Program (NFIP) Participant - Nondelegated	No	
NFIP Community Rating System (CRS) Participating Community	No	

Capabilities	Status	Comments
Hazard Awareness Program	No	
National Weather Service (NWS) Storm Ready	No	
Building Code Effectiveness Grading (BCEGs)	No	
ISO Fire Rating	Yes	
Economic Development Program	No	
Land Use Program	No	
Public Education/Awareness	Yes	
Property Acquisition	No	
Planning/Zoning Boards	No	
Stream Maintenance Program	No	
Tree Trimming Program	No	
Engineering Studies for Streams (Local/County/Regional)	No	
Mutual Aid Agreements	Yes	
<b>Studies/Reports/Maps</b>		
Hazard Analysis/Risk Assessment (Local)	No	
Hazard Analysis/Risk Assessment (County)	Yes	
Flood Insurance Maps	No	
FEMA Flood Insurance Study (Detailed)	No	
Evacuation Route Map	No	
Critical Facilities Inventory	No	
Vulnerable Population Inventory	No	
Land Use Map	No	
<b>Staff/Department</b>		
Building Code Official	No	
Building Inspector	No	
Mapping Specialist (GIS)	No	
Engineer	No	
Development Planner	No	
Public Works Official	No	
Emergency Management Director	No	
NFIP Floodplain Administrator	No	
Bomb and/or Arson Squad	No	
Emergency Response Team	No	
Hazardous Materials Expert	No	
Local Emergency Planning Committee	No	
County Emergency Management Commission	No	
Sanitation Department	No	
Transportation Department	No	
Economic Development Department	No	
Housing Department	No	
Planning Consultant	No	
Regional Planning Agencies	No	
Historic Preservation	No	
<b>Non-Governmental Organizations (NGOs)</b>		
American Red Cross	No	
Salvation Army	No	
Veterans Groups	No	
Environmental Organization	No	
Homeowner Associations	No	
Neighborhood Associations	No	
Chamber of Commerce	No	
Community Organizations (Lions, Kiwanis, etc.)	No	
<b>Local Funding Availability</b>		
Ability to apply for Community Development Block Grants	No	

Capabilities	Status	Comments
Ability to fund projects through Capital Improvements funding	No	
Authority to levy taxes for a specific purpose	No	
Fees for water, sewer, gas, or electric services	No	
Impact fees for new development	No	
Ability to incur debt through general obligation bonds	No	
Ability to incur debt through special tax bonds	No	
Ability to incur debt through private activities	Yes	
Ability to withhold spending in hazard prone areas	No	

## 2.2.19 Des Moines Water Works

Des Moines Water Works (DMWW) is an independently operated, public utility providing drinking water to approximately 500,000 people in the Greater Des Moines area. DMWW is the largest water utility in Iowa and is among the largest 100 utilities in the country.

In 1919, Des Moines Water Works (DMWW) was formed as a public utility under a new Code of Iowa, Section 388. Under this Code, the water utility is operated by a five-member Board of Trustees, who are appointed by the Mayor of the City of Des Moines and approved by the City Council for a six-year term. The Board of Trustees has all of the powers of the City Council to operate the utility except for levying taxes. The utility is owned by the water rate payers. The Board of Trustees hires a General Manager to operate the utility. The General Manager produces an annual budget for the operations of the utility using revenue from the sale of water as the primary income source. This budget is reviewed, modified, and approved by the Board of Trustees. The Board of Trustees is the only body of the utility which can enter into contracts, and the utility must comply with State of Iowa public improvement bidding laws.

Des Moines Water Works consists of the following departments:

- Customer Service;
- Information Technology;
- Human Resources;
- Water Distribution and Grounds;
- Engineering;
- Finance;
- Office of the CEO / General Manager; and,
- Water Production.

Past or ongoing projects or programs designed to reduce disaster losses include the following:

- Treatment plant levee raised 6 feet;
- Gate closure structure constructed at plant entrance;
- Storm water pumping facility constructed to protect operations center;
- Control Center moved to second floor;
- Second floor added to General Office facility with critical functions moved up;
- Constructed alternate (flood) entrance;
- River intake valve automation;
- Constructed two additional treatment plants (emergency backup & peak capacity);
- Constructed aquifer storage facilities (emergency backup & peak capacity); and,
- Riverbank protection.

Des Moines Water Works has the following mitigation-related capabilities:

- DMWW provides information to its customers on emergency water preparedness and encourages customers to store a three-day supply of water, including at least one gallon of water per person, per day to be prepared for any interruption of water supply that might occur.
- DMWW has a variety of resources available for educators and individuals interested in water supply, pollution prevention, and using water wisely on their website, [www.dmww.com](http://www.dmww.com).
- DMWW has an on-site warning siren that is activated by the Water Production Control Center Operator based on weather warnings received from the National Weather Service. DMWW has designated tornado shelters in each facility.
- Mutual Aid Agreements in place—DMWW participates in IOWARN.
- Critical Facilities Inventory.
- Engineer on Staff.
- Emergency Management Coordinator on Staff.
- Ability to fund projects through Capital Improvements Funding.
- Fees collected for water services.
- Financial Resources from Impact fees for new development.
- Ability to withhold spending in hazard prone areas.

**Table 2.24. Des Moines Water Works Mitigation Capabilities**

<b>Capability</b>	
<b>Planning Elements</b>	
Master Plan	Not Currently In Place
Capital Improvement Plan	Yes
School Emergency Plan	Not Applicable
Weapons Policy	Yes
<b>Personnel Resources</b>	
Full-Time Building Official (E.G., Principal)	Yes
Emergency Manager	Yes
Grant Writer	No
Public Information Officer	Yes
<b>Financial Resources</b>	
Capital Improvements Project Funding	Yes
Local Funds	Yes- Revenue from Water Rates
General Obligation Bonds	No - Revenue Bonds
Special Tax Bonds	No - Revenue Bonds
Private Activities/Donations	No
State and Federal Funds	No
<b>Other</b>	
Public Education Programs	Yes
Privately or Self-Insured?	Both - Self-Insured for Workers' Comp.
Fire Evacuation Training	Yes
Tornado Sheltering	Yes
Exercises	Yes
Public Address/ Emergency Alert System	No
NOAA Weather Radios	Yes
Lock-Down Security Training	Yes
Mitigation Programs	Yes
Tornado Shelter-Saferoom	Yes
Campus Police	Yes

Source: Data Collection Guide, 2018

## 2.2.20 Public School District Profiles and Mitigation Capabilities

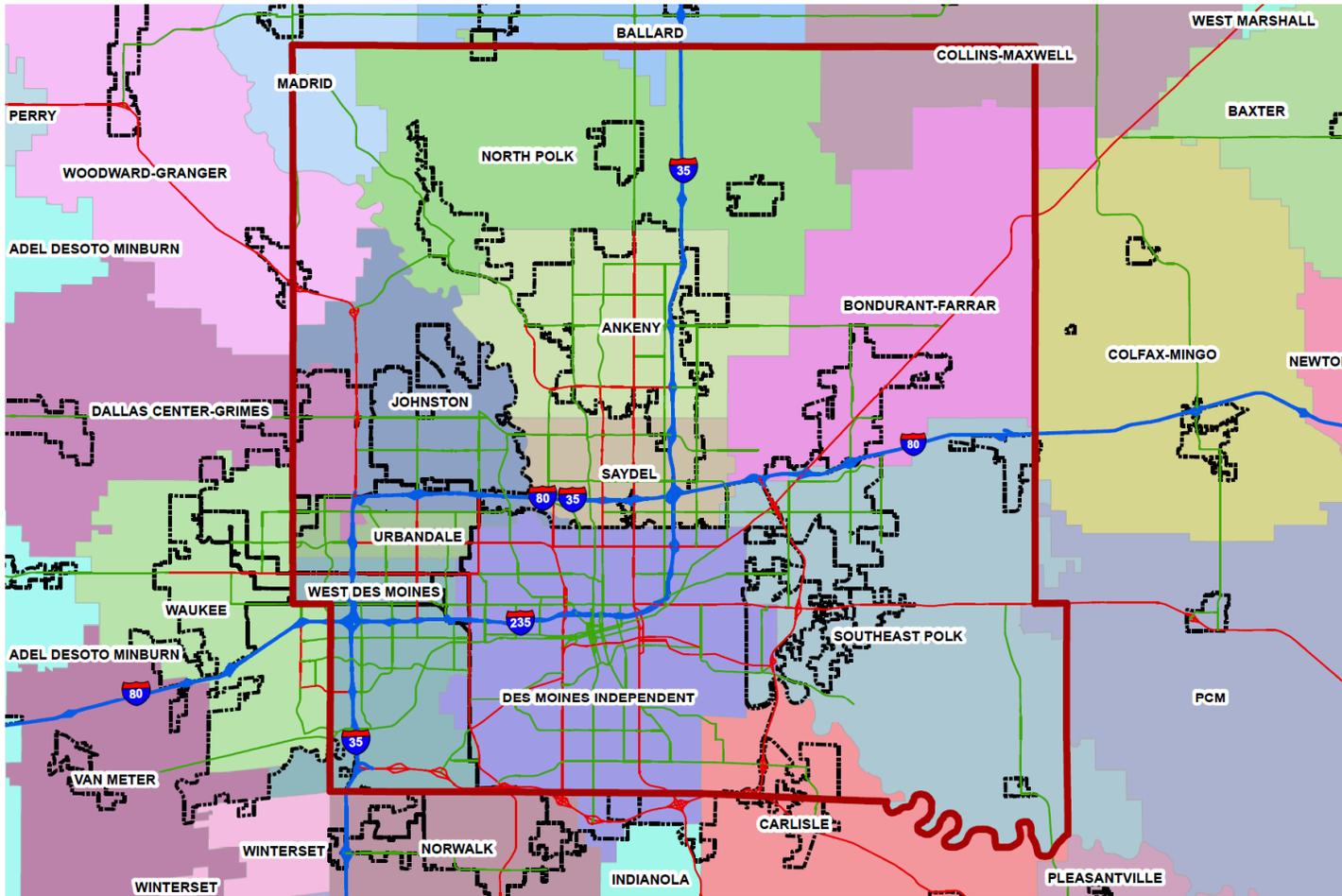
This section includes general profile information for all ten Polk County school districts. The ten school districts in the planning area are as follows.

- Ankeny 261
- Bondurant-Farrar 720
- Dallas Center-Grimes 1576
- Des Moines Independent 1737
- Johnston 3231
- North Polk 4779
- Saydel 5805
- Southeast Polk 6101
- Urbandale 6579
- West Des Moines

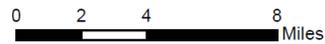
Nine of the ten school districts were official participants in the development of this plan update. The Saydel School District did not officially participate in the plan development as they did not meet the minimum participation requirements.

The map in **Figure 2.5** provides the boundaries of the school districts in Polk County and **Table 2.25** that follows provides location and enrollment information for each school district. For school districts that are in more than one county, the school building and enrollment data is for the portion in Polk County only.

Figure 2.5. Polk County School District Boundaries



Source: Iowa DNR, Iowa Department of Education



**Table 2.25. Polk County School Buildings and Enrollment Data, 2016-2017**

District Name	Building Name	Building Enrollment
Ankeny	Ankeny High School	1,072
Ankeny	Centennial High School	1,196
Ankeny	Parkview Middle School	902
Ankeny	Prairie Ridge Middle School	900
Ankeny	Northview Middle School	857
Ankeny	Southview Middle School	853
Ankeny	East Elementary School	432
Ankeny	Northwest Elementary School	364
Ankeny	Prairie Trail Elementary	730
Ankeny	Ashland Ridge Elementary	663
Ankeny	Rock Creek Elementary	696
Ankeny	Southeast Elementary School	671
Ankeny	Terrace Elementary School	456
Ankeny	Westwood Elementary School	651
Ankeny	Northeast Elementary	639
Ankeny	Crocker Elementary School	671
<b>Ankeny Total</b>		<b>11,753</b>
Bondurant-Farrar	Bondurant-Farrar High School	557
Bondurant-Farrar	Bondurant - Farrar Middle School	486
Bondurant-Farrar	Anderson Elementary School	637
Bondurant-Farrar	Morris Elementary School	507
<b>Bondurant-Farrar Total</b>		<b>2,187</b>
Dallas Center-Grimes	South Prairie Elementary	434
Dallas Center-Grimes	DCG High School	597
Dallas Center-Grimes	Meadows Building 8-9	420
Dallas Center-Grimes	Middle School 6-7	441
Dallas Center-Grimes	Northridge Elementary K-5	484
Dallas Center-Grimes	Heritage Elementary Pre-5	519
Dallas Center-Grimes	Dallas Center Elementary K-5	269
<b>Dallas Center-Grimes Total</b>		<b>3,164</b>
<i>Note: Dallas Center-Grimes Schools has 4 schools in Dallas County. The above is the total for the whole district.</i>		
Des Moines Independent	East High School	2,236
Des Moines Independent	Hoover High School	1,106
Des Moines Independent	Lincoln High School	2,350
Des Moines Independent	North High School	1,319
Des Moines Independent	Roosevelt High School	1,943
Des Moines Independent	Scavo Alternative High School	393
Des Moines Independent	Brody Middle School	770
Des Moines Independent	Callanan Middle School	603
Des Moines Independent	Goodrell Middle School	571
Des Moines Independent	Harding Middle School	788
Des Moines Independent	Hiatt Middle School	656
Des Moines Independent	Hoyt Middle School	598
Des Moines Independent	McCombs Middle School	733
Des Moines Independent	Meredith Middle School	805
Des Moines Independent	Merrill Middle School	743
Des Moines Independent	Weeks Middle School	766
Des Moines Independent	Home Instruction	439
Des Moines Independent	Capitol View Elementary School	551
Des Moines Independent	Carver Elementary	549
Des Moines Independent	Cattell Elementary School	410
Des Moines Independent	Cowles Elementary School	363
Des Moines Independent	Edmunds Fine Arts Academy	312
Des Moines Independent	Findley Elementary School	343
Des Moines Independent	Garton Elementary	650
Des Moines Independent	Greenwood Elementary School	283
Des Moines Independent	Hanawalt Elementary	343

District Name	Building Name	Building Enrollment
Des Moines Independent	Hillis Elementary School	370
Des Moines Independent	Howe Elementary	308
Des Moines Independent	Hubbell Elementary	432
Des Moines Independent	Jackson Elementary School	427
Des Moines Independent	Jefferson Elementary School	392
Des Moines Independent	King Elementary School	329
Des Moines Independent	JF Taylor	203
Des Moines Independent	Lovejoy Elementary School	394
Des Moines Independent	Madison Elementary School	279
Des Moines Independent	McKee Preschool	302
Des Moines Independent	McKinley Elementary School	267
Des Moines Independent	Mitchell Early Learning Center	350
Des Moines Independent	Monroe Elementary School	513
Des Moines Independent	Moore Elementary School	297
Des Moines Independent	Moulton Elementary Middle School	488
Des Moines Independent	Brubaker Elementary School	709
Des Moines Independent	Oak Park Elementary School	369
Des Moines Independent	Park Avenue Elementary School	431
Des Moines Independent	Perkins Elementary School	451
Des Moines Independent	Phillips Elementary School	339
Des Moines Independent	Pleasant Hill Elementary School	269
Des Moines Independent	River Woods Elementary School	570
Des Moines Independent	Bidwell Riverside Preschool	20
Des Moines Independent	Samuelson Elementary School	449
Des Moines Independent	Christ the King	52
Des Moines Independent	Hispanic Educational Resource (HER) Center	20
Des Moines Independent	Holy Family Preschool	29
Des Moines Independent	Holy Trinity Elementary	40
Des Moines Independent	Smouse Opportunity School	72
Des Moines Independent	Oakridge Preschool	39
Des Moines Independent	South Union Elementary School	494
Des Moines Independent	St. Anthony Elementary	29
Des Moines Independent	Stowe Elementary School	367
Des Moines Independent	St. Augustine	28
Des Moines Independent	Studebaker Elementary School	495
Des Moines Independent	St. Joseph Elementary	34
Des Moines Independent	St. Theresa's	35
Des Moines Independent	Science Center of Iowa	75
Des Moines Independent	Westminster Preschool	33
Des Moines Independent	Grace Methodist Preschool	48
Des Moines Independent	Morris Elementary School	600
Des Moines Independent	Willard Elementary School	362
Des Moines Independent	Windsor Elementary School	375
Des Moines Independent	Woodlawn Education Center	241
Des Moines Independent	Wright Elementary School	280
Des Moines Independent	Downtown Elementary School	271
Des Moines Independent	Shelter	6
Des Moines Independent	Orchard Place School	85
Des Moines Independent	Walnut Street Elementary School	307
Des Moines Independent	Van Meter Middle/High School	135
<b>Des Moines Independent Total</b>		<b>34,133</b>
Johnston	Beaver Creek Elem.	774
Johnston	Horizon Elem	738
Johnston	Lawson Elem	697
Johnston	Timber Ridge Elem.	756
Johnston	Summit Middle Sch.	589
Johnston	Johnston Middle Sch.	1148
Johnston	Johnston High Sch.	1614
Johnston	Youth Home	50
<b>Johnston Total</b>		<b>6,366</b>

District Name	Building Name	Building Enrollment
North Polk	North Polk High School	467
North Polk	North Polk Middle School	385
North Polk	North Polk Central Elementary School	392
North Polk	North Polk West Elementary School	531
<b>North Polk Total</b>		<b>1,775</b>
Saydel	Saydel High School	467
Saydel	Woodside Middle School	404
Saydel	Cornell Elementary School	502
<b>Saydel Total</b>		<b>1,373</b>
Southeast Polk	Southeast Polk High School	2,100
Southeast Polk	Southeast Polk Junior High School	1,100
Southeast Polk	Altoona Elementary School	370
Southeast Polk	Centennial Elementary School	390
Southeast Polk	Delaware Elementary School	365
Southeast Polk	Four Mile Elementary School	430
Southeast Polk	Mitchellville Elementary School	215
Southeast Polk	Runnells Elementary School	265
Southeast Polk	Spring Creek - 6th Grade	580
Southeast Polk	Willowbrook Elementary School	500
Southeast Polk	Clay Elementary	580
Southeast Polk	Altoona Elementary Preschool	103
Southeast Polk	Centennial Elementary	60
Southeast Polk	Clay Elementary	67
Southeast Polk	Delaware Elementary Preschool	68
Southeast Polk	Four Mile Elementary Preschool	25
Southeast Polk	Mitchellville Elementary Preschool	23
Southeast Polk	Willowbrook Elementary Preschool	32
<b>Southeast Polk Total</b>		<b>7,273</b>
Urbandale	Urbandale High School	1,275
Urbandale	Urbandale Middle School	950
Urbandale	Jensen Elementary School	235
Urbandale	Karen Acres Elementary School	250
Urbandale	Metro West Learning Academy	50
Urbandale	Olmsted Elementary School	290
Urbandale	Rolling Green Elementary School	270
Urbandale	Valerius Elementary School	250
Urbandale	Webster Elementary School	430
<b>Urbandale Total</b>		<b>4,000</b>
West Des Moines	Valley High School	1,830
West Des Moines	Walnut Creek Campus	119
West Des Moines	Valley Southwoods	674
West Des Moines	Indian Hills Junior High School	607
West Des Moines	Stilwell Junior High School	665
West Des Moines	Clive Elementary	447
West Des Moines	Crestview Elementary School	459
West Des Moines	Crossroads Park Elementary School	536
West Des Moines	Fairmeadows Elementary School	531
West Des Moines	Hillside Elementary School	538
West Des Moines	Jordan Creek Elementary School	685
West Des Moines	Western Hills Elementary School	541
West Des Moines	Westridge Elementary	648
West Des Moines	Creekside	40
West Des Moines	Sacred Heart	60
West Des Moines	WDM Method	56
West Des Moines	Apple Tree Grand	20
West Des Moines	Apple Tree Ashworth	20
<b>West Des Moines Total</b>		<b>8,476</b>
<b>Total</b>		<b>80,500</b>

Potential capabilities to implement mitigation programs and projects can vary among school districts. To determine mitigation capabilities, each of the nine participating school districts completed a Data Collection Guide to report planning, personnel, fiscal, and other capabilities related to implementation of mitigation programs and projects. **Table 2.26** and **Table 2.27** provide a summary of the reported capabilities for each participating school district

**Table 2.26. Summary of Mitigation Capabilities-Ankeny, Bondurant Farrar, Dallas Center-Grimes, Des Moines, and Johnston**

Capability	Ankeny 261	Bondurant-Farrar CSD	Dallas Center- Grimes 1576	Des Moines Independent 1737	Johnston Community Schools
<b>Planning Elements</b>					
Master Plan	Yes	Yes	Yes	Yes, 8/2016. Completed by the COO and Board every 5 years. It contains our construction schedule.	Yes
Capital Improvement Plan	Yes	Yes	Yes	Yes, 8/2016. Completed by the COO and board every 5 years.	Yes
School Emergency Plan	Yes	Yes	Yes	Yes. Completed 11/2010 and updated annually. Collaborative planning was done between 2013-2015, and updates annually.	Yes
Weapons Policy	Yes	Yes	Yes	Yes, 05/2012	Yes
<b>Personnel Resources</b>					
Full-Time Building Official (E.G., Principal)	Yes, Administration	Yes	Yes	Yes: Principals, Asst. Principals, Deans	Yes, Principals/Directors
Emergency Manager	Yes, Safety Manager	Yes	Yes	Yes, Pam Rosa, Safety/Security Specialist	Yes, Associate Supt. Facilitates Safety planning for the District. Each bldg. has training in incident command structures.
Grant Writer	No	No (We do have people who write grants, it's just a different part of their job.)	No	Yes, Casaundra Christensen/HR	No
Public Information Officer	Yes, PR Coordinator	No	Yes	Yes, Phil Roeder - Director, and Communication Officer - Amanda Lewis	Yes
<b>Financial Resources</b>					
Capital Improvements Project Funding	Not Reported	Yes	Yes	Yes, Statewide Penny and PPEL	Yes
Local Funds	Yes, Per Iowa Code	Yes	Yes	Yes, Varies	Yes
General Obligation Bonds	Yes, Per Iowa Code	Yes	Yes	Yes	Yes
Special Tax Bonds	Yes, Per Iowa Code	Yes	No	No	Yes

**Table 2.26. Summary of Mitigation Capabilities-Ankeny, Bondurant Farrar, Dallas Center-Grimes, Des Moines, and Johnston**

Private Activities/Donations	Yes, Per Iowa Code	Yes	Yes per Iowa Code	Yes	Yes
State And Federal Funds	Yes, Per Iowa Code	Yes	Yes per Iowa Code	Yes, varies	No
Other					
<b>Capability</b>	<b>Ankeny 261</b>	<b>Bondurant-Farrar CSD</b>	<b>Dallas Center- Grimes 1576</b>	<b>Des Moines Independent 1737</b>	<b>Johnston 3231</b>
Public Education Programs	Not Reported	Yes	No	Iowa Energy And Sustainability Academy	Fire Safety with F.D. Yes with 411 and other activities with Community Relations Officer and SROs
Privately Or Self-Insured?	Privately Insured - EMC Safety Group Program	Private	Self-Insured	Both, Self-Insured to \$100,000 and privately after that.	Yes
Fire Evacuation Training	Yes, Monthly	Yes	Yes	Monthly Fire Drills	Yes, 2 drills each Semester
Tornado Sheltering Exercises	Yes, 2X each semester	Yes	Yes	Two every semester	Yes, 2 drills each semester
Public Address/Emergency Alert System	Yes: Local PA, Parent Email, Blackboard, Handheld Radio	Yes (Intercoms)	Yes	Yes: PA, Alertus, 911 System Monitoring, Radio System	Yes, emergency radios in each bldg., mass email and phone call systems, PA/intercom in all bldgs.
NOAA Weather Radios	Yes	Yes	Yes	Yes	Yes
Lock-Down Security Training	Yes	Yes	Yes	Yes	Yes
Mitigation Programs	N/A	Yes	None	Yes	Yes
Tornado Shelter/Safe room	All buildings have tornado shelters designated with help from EMC and Polk County Emergency Management	Yes (2011)	None	Yes	No
Campus Police	1 SRO at each HS, 1 armed guard at each 8-9 building	1 School Resource Officer PK-12	None	Yes, not armed	Yes, 2 SROs and daily visits by other officers.

**Table 2.27. Summary of Mitigation Capabilities—North Polk, Southeast Polk, Urbandale, and West Des Moines**

Capability	North Polk Community Schools	Southeast Polk	Urbandale	West Des Moines
Planning Elements				
Master Plan	No	Yes	Yes	In process.
Capital Improvement Plan	Yes, 2017-2018 New Construction	Yes	Yes	Yes
School Emergency Plan	Yes	Yes	Yes	Yes
Weapons Policy	Yes - In Board Policy	Yes	Yes	Yes; 402.15 (6-27-16)
Personnel Resources				
Full-time building official (e.g., principal)	Yes	Yes	Yes	Yes
Emergency Manager	No	Yes (among other duties)	Yes - shared	Yes - shared
Grant Writer	No	Yes (among other duties)	No	Yes - shared
Public Information Officer	No	Yes	Yes	Yes
Financial Resources		Accessible/Eligible to Use Y/N		
Capital Improvements project funding	Yes - PPEL	Yes	Yes	Yes
Local funds	Yes - SILO	Yes	Yes	Yes
General obligation bonds	Yes - Used for new construction	Yes	Yes	Yes
Special tax bonds	No	Yes	Yes	Yes
Private activities/donations	Yes - Foundation & Gala	Yes	Yes	Yes
State and federal funds	Yes	Yes	Yes	Yes
Other				
Public Education Programs	Not Reported	Yes	Yes	Yes
Privately or self-insured?	Not Reported	Self-Insured (IPSIP)	Self	Both
Fire evacuation training	Yes - Quarterly	Yes	Yes	Yes
Tornado sheltering	Yes - During Season	Designated areas	Yes (no FEMA Spec Sites)	Yes
Exercises		Yes	Yes	Yes
Public Address/Emergency Alert System	Yes - Infinite Campus	Yes	Yes, PA in all buildings	Yes
NOAA Weather Radios	Yes - All Buildings	Yes	Some sites- Also cell phones	Yes
Lock-down security training	Yes	Yes	Yes	Yes
Mitigation Programs	Not Reported	No	N/A	Yes
Campus Police	Yes	PHPD SRO at JH and also HS Building	Yes	Yes

Source: Data Collection Guides, 2018