



## 2 PLANNING AREA PROFILE AND CAPABILITIES

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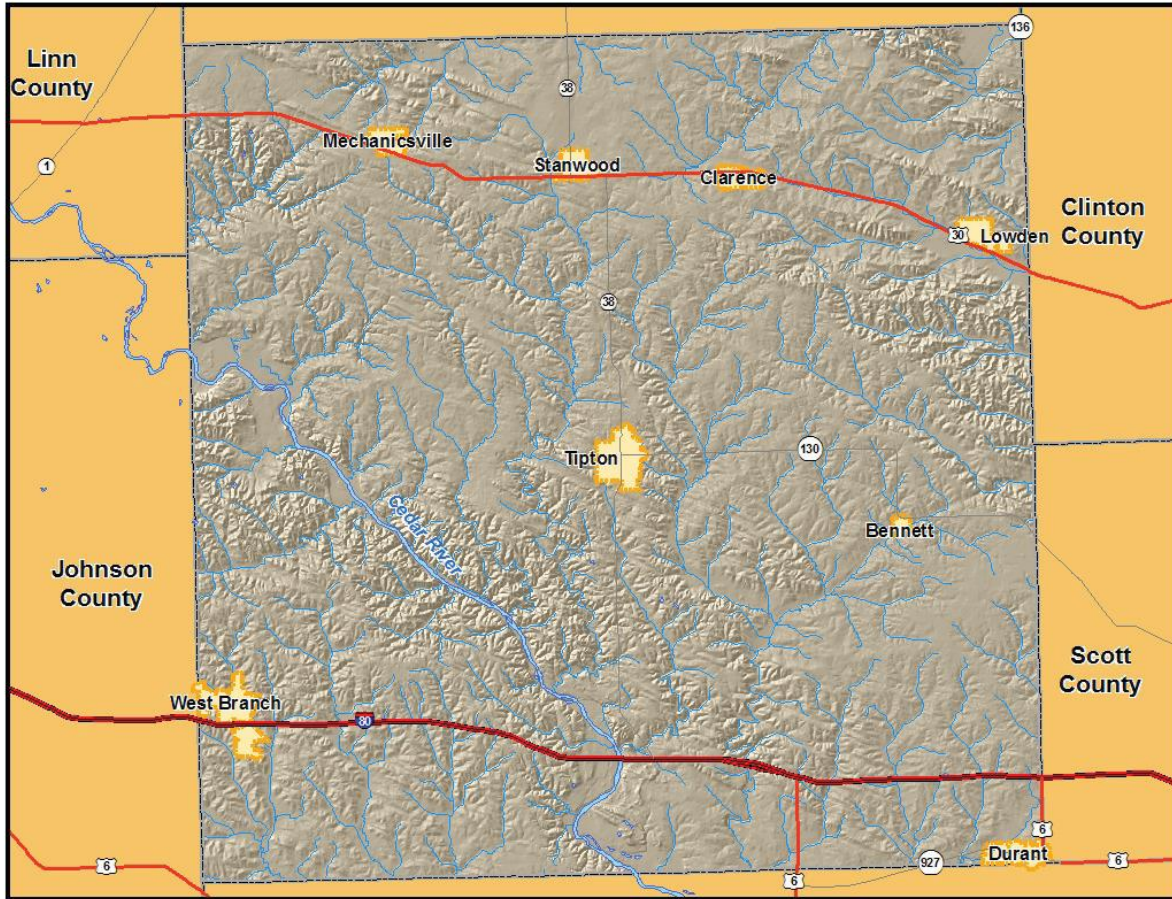
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This chapter provides a general profile of Cedar County followed by individual sections for each participating jurisdiction. The sections for each jurisdiction provide an overview profile as well as details on existing capabilities, plans, and programs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

### 2.1 Cedar County Planning Area Profile

**Figure 2.1** provides a map of the Cedar County planning area. The planning area boundaries include the unincorporated areas of Cedar County as well as all portions (including portions in adjacent counties) of the city limits of the following incorporated cities: City of Bennett, City of Clarence, City of Durant, City of Lowden, City of Mechanicsville, City of Stanwood, City of Tipton, and City of West Branch. The planning area also includes the Cedar County portion only of the City of Wilton. Wilton is geographically located in Cedar and Muscatine Counties. The City of Wilton is not an official participant of the Cedar County Multi-jurisdictional Hazard Mitigation Plan as it is considered a City of Muscatine County (see the Muscatine County Hazard Mitigation Plan).

**Figure 2.1. Cedar County Planning Area**

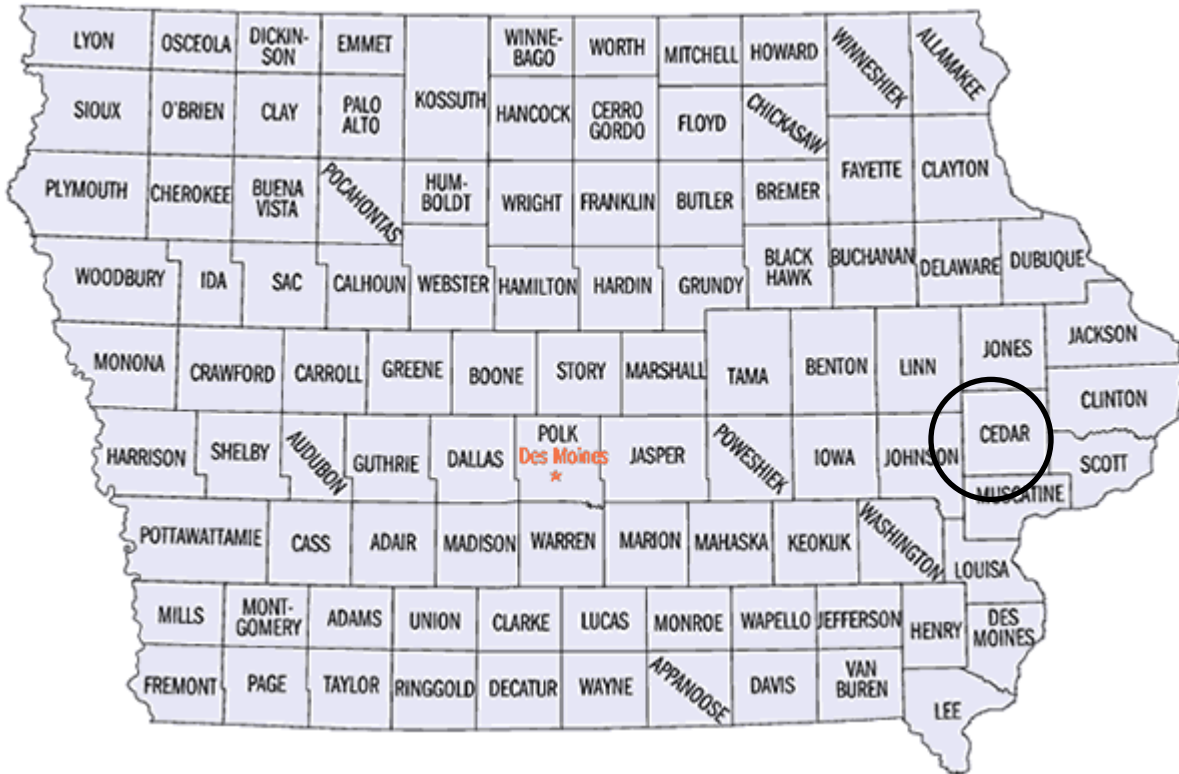


Source: 2011 Cedar County, Multi-jurisdictional Hazard Mitigation Plan

### **2.1.1 Geography and Topography**

Cedar County, Iowa is located in east-central Iowa (see **Figure 2.2**). The county seat of Cedar County is the City of Tipton. Cedar County has 580 square miles of land area and 2.4 square miles of water area.

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



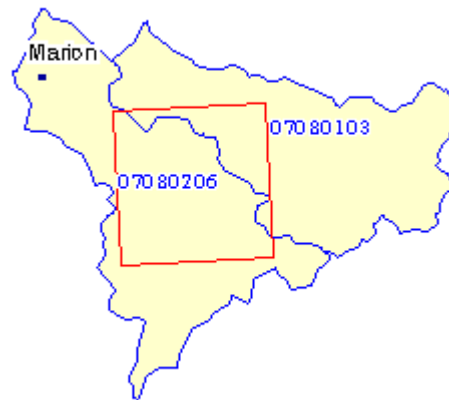
Source: 2009 Hazard Mitigation Plan

Much of Cedar County is still mostly rural with the primary land use being agriculture. Major streams in this area of the State have broad floodplains flanked by hills and ridges. Cedar County has two major rivers within its borders. The Cedar River enters along the west border just north of the town of Moscow. The Cedar River makes an interesting 90 degree turn to the southwest after leaving Cedar County because of a particularly hard outcropping of limestone along the border with Muscatine County. The Wapsipinicon River enters Cedar County in the extreme northeast part of the County from Jones County. It flows through Cedar County for only a few miles before it enters Clinton County. Cedar County crosses 2 watersheds. A list of these watersheds with the cities contained within each is provided below:

- 07080103 Lower Wapsipinicon—Clarence, Lowden, Mechanicsville, and Unincorporated County.
- 07080206 Lower Cedar—Bennett, Durant, Mechanicsville, Stanwood, Tipton, West branch, Wilton, and Unincorporated County.

**Figure 2.3** shows the two watersheds in Cedar County.

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



Source: Environmental Protection Agency, [http://cfpub.epa.gov/surf/county.cfm?fips\\_code=19031](http://cfpub.epa.gov/surf/county.cfm?fips_code=19031)

The topography of this area is generally characteristic of the Kansan drift area. The terrain of the Kansan drift area is quite uneven with gently rolling areas as well as steep upland terrain and is deeply dissected in places by rivers and streams. The areas immediately north and south of the Cedar and Wapsipinicon Rivers are characterized by an intricate pattern of deep valleys and ravines that have steep slopes. Small streams extend into the uplands. The bottom lands along the Cedar and Wapsipinicon Rivers are nearly level. Stream terraces along the rivers are nearly level to undulating. Upland hills rise 100 to 200 feet from the level of the floodplains.

### 2.1.2 Climate

The climate of Cedar County typifies east-central Iowa with wide seasonal fluctuations in temperature and precipitation. The average annual temperature is 48.9 degrees Fahrenheit (F.) with an average high in July of 74.2 degrees F. and average low in January of 19.9 degrees F. The annual precipitation averages 35.5 inches. Of this, 23.8 inches fall during the growing season from April to September. An average of 30.7 inches of snowfall occurs each winter (Weatherbase, 2014, <http://www.weatherbase.com/weather/weather.php3?s=662831&cityname=Clarence-Iowa-United-States-of-America>).

### 2.1.3 Population/Demographics

The 2013 population estimate of Cedar County was 18,393. This is down from the 2010 census population of 18,499. According to the 2012 American Community Survey, the Cedar County median household income was \$58,433. Cedar County median house value is \$134,000.

**Table 2.1** provides the populations for each city and the unincorporated county for 2000, 2010, and 2013 with the number and percent change from 2000 to 2013. 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. Cedar County Population 2000-2013 by City**

| Jurisdiction                | 2000 Population | 2010 Population | 2013 Population Estimates | # Change 2000-2013 | % Change 2000-2013 |
|-----------------------------|-----------------|-----------------|---------------------------|--------------------|--------------------|
| Iowa                        | 2,926,324       | 3,046,355       | 3,090,416                 | 164,092            | 5.61%              |
| Cedar County                | 18,187          | 18,499          | 18,393                    | 206                | 1.13%              |
| Bennett                     | 395             | 405             | 396                       | 1                  | 0.25%              |
| Clarence                    | 1,008           | 974             | 961                       | -47                | -4.66%             |
| Durant*                     | 1,677           | 1,832           | 1,832                     | 155                | 9.24%              |
| Lowden                      | 794             | 789             | 780                       | -14                | -1.76%             |
| Mechanicsville              | 1,173           | 1,146           | 1,129                     | -44                | -3.75%             |
| Stanwood                    | 680             | 684             | 673                       | -7                 | -1.03%             |
| Tipton                      | 3,155           | 3,221           | 3,199                     | 44                 | 1.39%              |
| West Branch*                | 2,188           | 2,322           | 2,326                     | 138                | 6.31%              |
| Unincorporated areas (est.) | 7,117           | 7,126           | 7,097                     | -20                | -0.28%             |

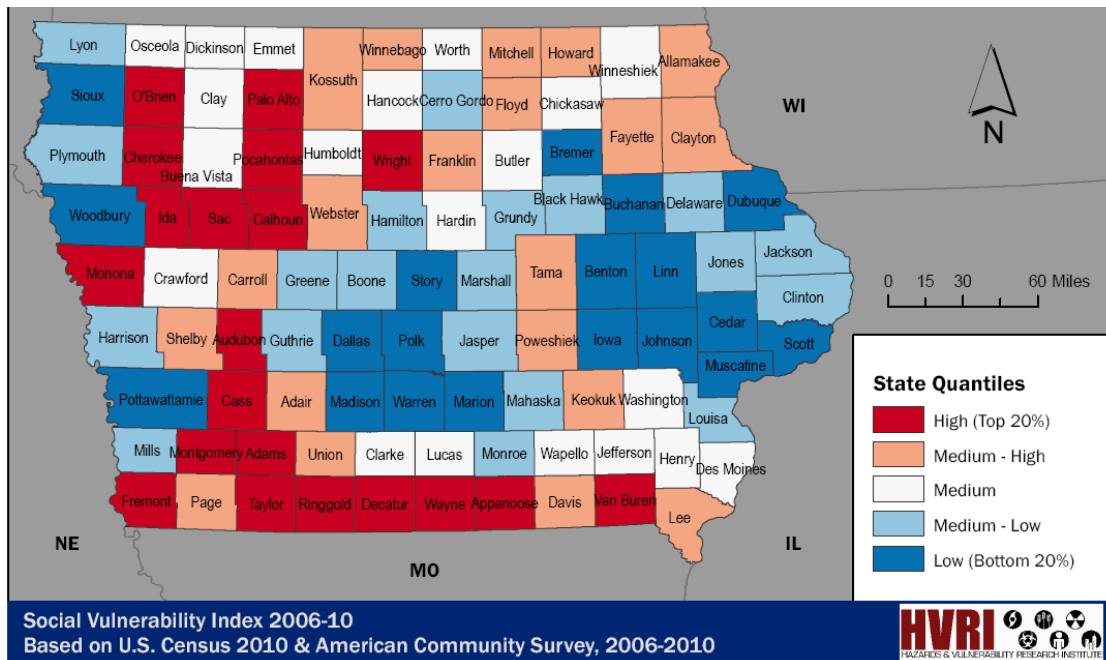
Source: U.S. Bureau of the Census, 2000 and 2010 data is from the Decennial Census, 2013 population estimate data is from the Iowa State University of Science and Technology, Iowa Community Indicators Program; \*population includes the portions of these cities in adjacent counties

According to the 2010 census, 6.1 percent of the population is under age 5 and 17.1 percent of the population is over age 65 in Cedar County. There were 7,511 households with an average household size of 2.42 people.

The Hazards and Vulnerability Research Institute at the University of South Carolina developed the Social Vulnerability Index (SoVI ®) 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 ® data sources include primarily those from the United States Census Bureau.

**Figure 2.4** shows that Cedar County has a low Social Vulnerability Index of -1.9. The low index indicates that Cedar County is more able to cope and recover from disasters than counties with a higher index.

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



Source: Hazards and Vulnerability Research Institute, [http://webra.cas.sc.edu/hvri/products/sovi2010\\_img/PDF/Iowa\\_0610.pdf](http://webra.cas.sc.edu/hvri/products/sovi2010_img/PDF/Iowa_0610.pdf)

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

**Table 2.2. Unemployment, Income, Poverty, and Education, Demographics, Cedar County, Iowa**

| Jurisdiction              | Total in Labor Force | Percent of Population Unemployed | Median Household Income | Percent of Families Below the Poverty Level | Percentage of Population (High School graduate or higher) | Percentage of Population (Bachelor's degree or higher) |
|---------------------------|----------------------|----------------------------------|-------------------------|---|---|--|
| Iowa                      | 1,651,480            | 5.6                              | \$51,129                | 7.9   | 93.1  | 25.1   |
| Cedar County, Iowa        | 10,375               | 4.1                              | \$58,433                | 5.7   | 96.1  | 19.5   |
| Bennett city, Iowa        | 270                  | 6                                | \$53,750                | 6.8   | 90.7  | 17.6   |
| Clarence city, Iowa       | 416                  | 9.1                              | \$43,973                | 9.1   | 91.6  | 5.6  |
| Durant city, Iowa         | 996                  | 1.2                              | \$54,609                | 12.1  | 94.8  | 20.2   |
| Lowden city, Iowa         | 352                  | 6.6                              | \$38,500                | 6.9   | 95.1  | 24.4   |
| Mechanicsville city, Iowa | 585                  | 4.8                              | \$51,818                | 9.4   | 94.8  | 16.4   |
| Stanwood city, Iowa       | 362                  | 14.1                             | \$48,750                | 6.9   | 98.5  | 13.8   |
| Tipton city, Iowa         | 1,733                | 3                                | \$47,974                | 4.5   | 95.5  | 8.4  |
| West Branch city, Iowa    | 1,445                | 4.3                              | \$60,556                | 2.6   | 98.6  | 36.7   |

Source: U.S. Census, 2012 American Community Survey, 5-year Estimates.

## 2.1.4 History

Cedar County is named for the Cedar River, which was originally called “Mos-wahwak-wah” (meaning red cedar) by the Native Americans because of the red cedar trees growing along the banks. Cedar County was created in 1837 by the Territorial Legislature. The county was formerly a part of Dubuque County. The first permanent European settlers arrived in the summer of 1836. In 1838, Rochester was considered the most important settlement and was made the county seat. In 1839, a petition was submitted to the Territorial Legislature to establish a more central location for the county seat. A commission of three men from outside the county was appointed to select a new site for the county seat. On March 14, 1840, after visiting many existing settlements, the commissioners arrived at the center of the county. One of the commissioners took a stake and drove it into the ground. On that stake the name of Tipton was written, in honor of General Tipton of Indiana. Since then, Tipton has remained the county seat of Cedar County. The abolitionist John Brown and the Underground Railroad played an important part in the history of Cedar County. John Brown first came to Cedar County in 1856 after learning that the Quakers in West Branch held strong anti-slavery views. From then on, many communities in Cedar County had stations on the Underground Railroad. Many of the known stops still exist and can still be seen in West Branch, Springdale, and Tipton and on farms along Sugar Creek. In 1857, John Brown returned to Cedar County with his group of followers. He and his followers spent the winter of 1857 and 1858 on the William Maxson farm north of Springdale, drilling and preparing for his attack on Harpers Ferry in Virginia (now West Virginia). This attack was a critical event leading up to the Civil War. A boulder with a bronze plaque marking the Maxson farm was placed in 1924 north of Springdale.

On August 10, 1874, Herbert Hoover, the 31st President of the United States of America, was born in West Branch. Herbert Hoover was the first United States President born west of the Mississippi River. West Branch is now home to the Herbert Hoover National Historic Site, Presidential Library, and Museum, which consists of 187 acres and is administered by the National Park Service. Herbert and Mrs. Hoover are buried on a hillside overlooking the President’s birthplace on the park grounds.

## 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, Cedar 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 |
|---------------------|---|---------------------|------------------------------|--|---|
| Iowa                | 33.7%   | 16.6%               | 24.1%                        | 9.5%   | 16.1%   |
| Cedar County, Iowa  | 29.1%   | 15.1%               | 24.1%                        | 12.9%  | 18.8%   |
| Bennett city, Iowa  | 20.7%   | 23.1%               | 20.7%                        | 10.4%  | 25.1%   |
| Clarence city, Iowa | 26.2%   | 14.6%               | 18.3%                        | 22.5%  | 18.5%   |
| Durant city, Iowa   | 26.1%   | 18.3%               | 28.2%                        | 6.9%   | 20.5%   |

| 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 |
|---------------------------|---|---------------------|------------------------------|--|---|
| Lowden city, Iowa         | 28.8%   | 16.9%               | 25.2%                        | 11.0%  | 18.1%   |
| Mechanicsville city, Iowa | 25.1%   | 15.3%               | 21.9%                        | 20.5%  | 17.2%   |
| Stanwood city, Iowa       | 17.7%   | 24.8%               | 25.4%                        | 16.4%  | 15.8%   |
| Tipton city, Iowa         | 25.5%   | 19.1%               | 21.6%                        | 10.1%  | 23.7%   |
| West Branch city, Iowa    | 31.9%   | 19.2%               | 25.2%                        | 9.8%   | 14.0%   |

Source: U.S. Census, 2012 American Community Survey, 5-year Estimates.

## 2.1.6 Agriculture

According to the Iowa State University, University Extension Agricultural Profile for Cedar County there were 1,036 farms in the County covering 336,885 acres of land (90 percent). 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. Farms on average are larger in Cedar County with the average size 325 acres. Sales per farm in 2009 were \$191,160. Cedar County agriculture provides 9,163 jobs, representing 88 percent of the County's workforce of 10,375. Cedar County agriculture and economy contributions are summarized in **Table 2.4**.

**Table 2.4. Cedar County Agriculture and the Economy**

|   | Output(millions) | Jobs   |
|---|------------------|--------|
| Crop and livestock production               | \$231.20         | 1,695  |
| Ag processing                               | \$54.50          | 206    |
| Ag support                                  | \$8.00           | 25     |
| Total ag contribution                       | \$293.70         | 1,926  |
| Ag activity as percent of total activity    | 31.90%           | 21.00% |
| Household consumption and non-ag production | \$626.10         | 7,237  |
| Total economic activity                     | \$919.70         | 9,163  |

Iowa State University, University Extension

## 2.1.7 FEMA Hazard Mitigation Assistance Grants in Planning Area

Since 1993, more than \$1 Million in Federal Hazard Mitigation Assistance grants has been awarded to subgrantees in Cedar County (total project cost). **Table 2.5** provides details on the previous FEMA Hazard Mitigation Assistance Grants in the planning area.



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**Table 2.5. FEMA HMA Grants in Cedar County from 1993-2013**

| <b>Project Type</b>  | <b>Sub applicant</b> | <b>Award Date</b> | <b>Project Total</b> |
|----------------------|----------------------|-------------------|----------------------|
| Mitigation Planning  | Cedar County         | 11/26/2013        | \$64,400             |
| Tornado Safe Room    | Tipton               | 7/28/2011         | \$397,086            |
| Mitigation Planning  | Cedar County         | 12/21/2009        | \$48,000             |
| Property Acquisition | Cedar County         | 12/21/2009        | \$1,378,413          |

Source: Iowa Homeland Security and Emergency Management Division, March. 2014

## 2.2 City/County Capabilities and Jurisdictional Profiles

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This section summarizes the capabilities of each jurisdiction that relate to their ability to implement mitigation opportunities. The Unincorporated County is governed by a 5-member Board of Supervisors and each city is governed by a Mayor and 5-member City Council. This section begins with a general discussion of capabilities of the Unincorporated County followed by **Table 2.6** which provides a summary of the following capabilities in the County and each incorporated city: planning capabilities, policies/ordinances, programs, studies/reports/maps, staff resources, non-governmental organizations, and financial resources. **Table 2.7** that follows provides additional profile information for each participating jurisdiction including population, land area, government structure, and previous and ongoing mitigation capabilities, programs, and infrastructure.

### 2.2.1 Unincorporated Cedar County

The jurisdiction of Cedar County includes all unincorporated areas within the County boundaries. The Cedar County government structure is a County Board of Supervisors with five members. The Cedar County government includes the following departments and offices:

- Board of Supervisors
- Assessor's Office
- Attorney's Office
- Auditor's Office
- Case Management Office
- Central Point of Coordination Office
- Clerk of Court's Office
- Community Services Office
- Conservation Board Office
- Emergency Management Office
- Emergency Medical Services Office
- Engineer Office
- Environmental Health Office
- Geographic Information Systems Office
- Human Resources Office
- Medical Examiner's Office
- Mental Health Office
- Public Health Office
- Recorder's Office
- Sanitation Office
- Sheriff's Office
- Treasurer's Office
- Veteran's Affairs Office
- Zoning Office

## **Mitigation Initiatives/Capabilities**

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

Additional mitigation initiatives/capabilities are discussed below.

- Implementation of previous floodprone property acquisition project;
- Ongoing training for fire and EMS staff; and
- Utilize Wireless Emergency Notification System (WENS) as a community warning system.

**Table 2.6. Mitigation Capabilities for Cedar County and Incorporated Cities**

| CAPABILITIES                 | Cedar County | City of Bennett | City of Clarence                         | City of Durant | City of Lowden | City of Mechanicsville | City of Stanwood | City of Tipton                   | City of West Branch                                       |
|------------------------------|--------------|-----------------|--|----------------|----------------|------------------------|------------------|----------------------------------|---|
| <b>Planning Capabilities</b> |              |                 |  |                |                |                        |                  |                                  |   |
| Comprehensive Plan           | Yes          | No              | Yes-Feb 2000-Comprehensive Land Use Plan | Yes-Feb 2014   | No             | No                     | No               | Yes-Sept. 2002                   | Yes-April 2013  |
| Builder's Plan               | No           | No              | No                                       | No             | No             | Yes-1993               | No               | No                               | Yes-April 2013, Chapter 6 of Comprehensive Plan           |
| Capital Improvement Plan     | No           | Yes             | No                                       | No             | No             | No                     | No               | Yes-Dec. 2013 (updated annually) | Yes-adopted February 2, 2015                              |
| Local Emergency Plan         | N/A          | No              | No                                       | No             | No             | No                     | No               | No                               | Yes-April 2013, Chapter 10 of Comprehensive Plan          |
| County Emergency Plan        | Yes          | N/A             | N/A                                      | N/A            | Yes            | Yes                    | Yes              | Yes                              | N/A   |
| Local Recovery Plan          | N/A          | No              | No                                       | No             | No             | No                     | No               | No                               | No-under Development anticipated Nov. 2014                |
| County Recovery Plan         | No           | N/A             | N/A                                      | N/A            | N/A            | N/A                    | No               | No                               | No-under Development anticipated Nov. 2014                |
| Local Mitigation Plan        | N/A          | Yes-2011        | Yes-2011                                 | Yes-2011       | Yes-2011       | Yes-2011               | Yes              | Yes-2011                         | Yes-2011 and April 2013, Chapter 10 of Comprehensive Plan |
| County Mitigation Plan       | Yes-2011     | Yes-2011        | Yes-2011                                 | Yes-2011       | Yes-2011       | Yes-2011               | Yes              | Yes-2011                         | Yes   |

| <b>CAPABILITIES</b>                                     | <b>Cedar County</b> | <b>City of Bennett</b> | <b>City of Clarence</b>                     | <b>City of Durant</b>              | <b>City of Lowden</b> | <b>City of Mechanicsville</b> | <b>City of Stanwood</b> | <b>City of Tipton</b> | <b>City of West Branch</b>  |
|---|---------------------|------------------------|---|------------------------------------|-----------------------|-------------------------------|-------------------------|-----------------------|---|
| Local Mitigation Plan (PDM)                             | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | No  |
| County Mitigation Plan (PDM)                            | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | No  |
| Debris Management Plan                                  | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | No  |
| Economic Development Plan                               | No                  | No                     | Yes-May 1993 Urban Renewal Plan             | No                                 | No                    | No                            | No                      | No                    | Yes-April 2013, Chapter 7, Comprehensive Plan                         |
| Transportation Plan                                     | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | Yes-April 2013, Chapter 9, Comprehensive Plan                         |
| Land-use Plan   | Yes                 | No                     | Yes-Feb 2000 in Comprehensive Land Use Plan | Yes-Feb 2014 in Comprehensive Plan | No                    | Yes-zoning                    | No                      | No                    | Yes-April 2013, Chapter 5, Comprehensive Plan                         |
| Flood Mitigation Assistance (FMA) Plan                  | No                  | No                     | Yes May 2013                                | No                                 | No                    | No                            | No                      | No                    | No  |
| Watershed Plan  | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | Yes-July 2010, Hoover Creek Watershed NPS and Flood Reduction Project |
| Firewise or other fire mitigation plan                  | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | No  |
| School Mitigation Plan                                  | N/A                 | N/A                    | N/A   | N/A                                | N/A                   | N/A                           | N/A                     | N/A                   | N/A   |
| Critical Facilities Plan (Mitigation/Response/Recovery) | No                  | No                     | No  | No                                 | No                    | No                            | No                      | No                    | No  |

| <b>CAPABILITIES</b>             | <b>Cedar County</b> | <b>City of Bennett</b> | <b>City of Clarence</b> | <b>City of Durant</b>    | <b>City of Lowden</b> | <b>City of Mechanicsville</b>                         | <b>City of Stanwood</b> | <b>City of Tipton</b> | <b>City of West Branch</b>                 |
|---------------------------------|---------------------|------------------------|-------------------------|--------------------------|-----------------------|---|-------------------------|-----------------------|--|
| <b>Policies/Ordinance</b>       |                     |                        |                         |                          |                       |   |                         |                       |  |
| Zoning Ordinance                | Yes                 | No                     | Yes                     | Yes                      | Yes                   | Yes   | Yes                     | Yes                   | Yes, Chapter 165, City Code                |
| Building Code                   | No                  | Yes                    | Not Reported            | Iowa State Building Code | No                    | Not Reported  | Not Reported            | Yes-IBC 2009          | Iowa State Building Code                   |
| Floodplain Ordinance            | Yes                 | Yes                    | Yes                     | Yes                      | Yes-2013              | Yes-May 2013  | Yes                     | Yes-2013              | Yes, Chapter 160, City Code                |
| Subdivision Ordinance           | Yes                 | Yes                    | No                      | Yes                      | Yes                   | Yes   | Not Reported            | Yes                   | Yes, Chapter 170, City Code                |
| Tree Trimming Ordinance         | No                  | Yes                    | Yes                     | Yes                      | Yes                   | Yes   | Yes                     | Yes                   | Yes, Chapter 151 City Code                 |
| Nuisance Ordinance              | No                  | Yes                    | Yes                     | Yes                      | Yes                   | Yes   | Yes                     | Yes                   | Yes, Chapter 50, City Code                 |
| Storm Water Ordinance           | No                  | No                     | No                      | No                       | No                    | Yes   | No                      | No                    | Yes, Ordinance 716, Adopted September 2013 |
| Drainage Ordinance              | No                  | No                     | Yes                     | No                       | No                    | No  | No                      | No                    | No   |
| Site Plan Review Requirements   | No                  | No                     | Yes                     | Yes                      | Yes                   | No  | No                      | Yes                   | Yes, Chapter 173, City Code                |
| Historic Preservation Ordinance | No                  | No                     | No                      | No                       | No                    | No-but Library Board has historic preservation duties | No                      | No                    | Yes, Chapter 26, City Code                 |

| <b>CAPABILITIES</b>  | <b>Cedar County</b>       | <b>City of Bennett</b> | <b>City of Clarence</b> | <b>City of Durant</b> | <b>City of Lowden</b> | <b>City of Mechanicsville</b>     | <b>City of Stanwood</b> | <b>City of Tipton</b>                       | <b>City of West Branch</b>  |
|--|---------------------------|------------------------|-------------------------|-----------------------|-----------------------|-----------------------------------|-------------------------|---|-----------------------------|
| Landscape Ordinance  | No                        | No                     | No                      | No                    | Yes                   | Yes-part of mobile home ordinance | No                      | No  | Yes, Chapter 173, City Code |
| Iowa Wetlands and Riparian Areas Conservation Plan                 | Yes-County-owned wetlands | No                     | No                      | No                    | No                    | No                                | No                      | No-however, City owns an identified wetland | No                          |
| <b>Program</b>   |                           |                        |                         |                       |                       |                                   |                         |   |                             |
| Zoning/Land Use Restrictions                                       | Yes                       | No                     | Yes                     | Yes                   | No                    | Yes                               | Yes                     | Yes   | Yes, Chapter 165, City Code |
| Codes Building Site/Design   | No                        | No                     | No                      | Yes                   | No                    | No                                | No                      | Yes   | No                          |
| National Flood Insurance Program (NFIP) Participant - Nondelegated | Yes                       | Yes                    | Yes                     | Yes                   | Yes                   | Yes                               | Yes                     | Yes   | Yes                         |
| NFIP Participant - Delegated                                       | No                        | No                     | No                      | No                    | No                    | No                                | No                      | No  | No                          |
| NFIP Community Rating System (CRS) Participating Community         | No                        | No                     | No                      | No                    | No                    | No                                | No                      | No  | Yes                         |
| Hazard Awareness Program   | No                        | No                     | No                      | No                    | No                    | No                                | No                      | No  | No                          |
| National Weather Service (NWS) Storm Ready                         | No                        | Yes                    | No                      | No                    | No                    | No                                | No                      | No  | Yes                         |
| Building Code Effectiveness Grading (BCEGs)                        | No                        | No                     | No                      | No                    | No                    | No                                | No                      | No  | 6                           |
| ISO Fire Rating  | Not Reported              | Not Reported           | 7                       | Not Reported          | 7                     | 5                                 | Not Reported            | 5   | 5                           |

| CAPABILITIES  | Cedar County                                 | City of Bennett                           | City of Clarence | City of Durant | City of Lowden | City of Mechanicsville | City of Stanwood | City of Tipton            | City of West Branch   |
|---|--|---|------------------|----------------|----------------|------------------------|------------------|---------------------------|---|
| Economic Development Program                            | Cedar County Economic Development Commission | Cedar County Economic Development Council | No               | No             | LEDCE          | No                     | No               | Yes                       | Main Street West Branch, CCEDCO, ICAD   |
| Land Use Program  | Yes  | No  | Yes              | Yes            | No             | No                     | No               | Yes                       | No  |
| Public Education/Awareness                              | No   | Yes-Fire, Ambulance, Libraries            | No               | No             | No             | Yes-website            | No               | No                        | No  |
| Property Acquisition                                    | Yes-2008 FEMA Project                        | No  | No               | No             | No             | No                     | Yes              | No                        | No  |
| Planning/Zoning Boards                                  | Yes  | No  | Yes              | Yes            | Yes            | Yes                    | Yes              | Yes                       | Yes   |
| Stream Maintenance Program                              | Yes  | No  | Yes              | No             | No             | No                     | No               | No                        | No  |
| Tree Trimming Program                                   | No   | Yes                                       | Yes              | Yes            | No             | Yes                    | No               | Yes                       | No  |
| Engineering Studies for Streams (Local/County/Regional) | No   | Yes                                       | No               | No             | No             | No                     | No               | Yes-West Side Creek Study | Yes, Hoover Creek Watershed NPS and Flood Reduction Project, July 2010                  |
| Mutual Aid Agreements                                   | Yes  | Yes                                       | Yes              | Yes            | Yes            | Yes                    | Yes              | Yes                       | Yes, Law Enforcement, Fire and National Park Service (Trails, Fire and Law Enforcement) |



| <b>CAPABILITIES</b>                      | <b>Cedar County</b>             | <b>City of Bennett</b> | <b>City of Clarence</b> | <b>City of Durant</b>                | <b>City of Lowden</b> | <b>City of Mechanicsville</b> | <b>City of Stanwood</b> | <b>City of Tipton</b>           | <b>City of West Branch</b>          |
|--|---------------------------------|------------------------|-------------------------|--------------------------------------|-----------------------|-------------------------------|-------------------------|---------------------------------|-------------------------------------|
| <b>Studies/Reports/Maps</b>              |                                 |                        |                         |                                      |                       |                               |                         |                                 |                                     |
| Hazard Analysis/Risk Assessment (Local)  | N/A                             | Yes                    | Yes                     | Yes                                  | Yes                   | Yes                           | Yes                     | yes                             | Yes, 2011 HMP                       |
| Hazard Analysis/Risk Assessment (County) | Yes-2011 Hazard Mitigation Plan | N/A                    | N/A                     | N/A                                  | Yes                   | Yes                           | Yes                     | Yes                             | Yes, 2011 HMP                       |
| Flood Insurance Maps                     | Yes                             | Yes                    | Yes                     | Yes                                  | Yes                   | Yes                           | Yes                     | Yes                             | Yes                                 |
| FEMA Flood Insurance Study (Detailed)    | Yes                             | Yes                    | Yes                     | Yes                                  | Yes                   | Yes                           | Yes                     | Yes                             | Yes                                 |
| Evacuation Route Map                     | Yes                             | Not Reported           | No                      | No                                   | No                    | No                            | No                      | No                              | No                                  |
| Critical Facilities Inventory            | Yes                             | Yes                    | No                      | No                                   | No                    | Yes                           | No                      | Yes                             | Yes, Chapter 12, Comprehensive Plan |
| Vulnerable Population Inventory          | No                              | No                     | No                      | No                                   | No                    | Yes                           | No                      | No                              | No                                  |
| Land Use Map                             | Yes                             | No                     | No                      | Yes                                  | No                    | Yes                           | No                      | Yes                             | Yes, May 2014                       |
| <b>Staff/Department</b>                  |                                 |                        |                         |                                      |                       |                               |                         |                                 |                                     |
| Building Code Official                   | No                              | No                     | Yes                     | Yes                                  | Yes                   | No                            | No                      | Yes                             | Yes                                 |
| Building Inspector                       | No                              | No                     | Yes                     | Yes                                  | Yes                   | No                            | No                      | Yes                             | Yes                                 |
| Mapping Specialist (GIS)                 | Yes                             | No-utilize County GIS  | Yes                     | No                                   | No                    | Yes                           | No                      | N-use county                    | No                                  |
| Engineer                                 | Yes                             | Yes                    | Yes                     | Contracted-MSA Professional Services | No                    | Yes                           | Yes                     | Contracted                      | Yes                                 |
| Development Planner                      | No                              | No                     | Yes                     | No                                   | No                    | No                            | No                      | Yes-City Mgr. is AICP Certified | No                                  |
| Public Works Official                    | No                              | Yes                    | Yes                     | Yes                                  | Yes                   | Yes                           | Yes                     | Y                               | Yes                                 |

| <b>CAPABILITIES</b>                    | <b>Cedar County</b>                          | <b>City of Bennett</b>                       | <b>City of Clarence</b> | <b>City of Durant</b> | <b>City of Lowden</b> | <b>City of Mechanicsville</b>    | <b>City of Stanwood</b> | <b>City of Tipton</b>          | <b>City of West Branch</b> |
|--|--|--|-------------------------|-----------------------|-----------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|
| Emergency Management Coordinator       | Yes  | No-utilize County EM                         | Yes                     | No                    | No                    | No-use County                    | Yes-County              | N-use county                   | Yes                        |
| NFIP Floodplain Administrator          | Yes  | Yes  | Yes                     | Yes                   | Yes                   | Yes                              | Yes                     | Yes                            | Yes                        |
| Bomb and/or Arson Squad                | No   | No   | No                      | No                    | No                    | No                               | No                      | No                             | No                         |
| Emergency Response Team                | No   | First Responders-fire, ambulance, sheriff    | Yes                     | No                    | No                    | First Responders-fire, ambulance | Yes                     | Yes                            | No                         |
| Hazardous Materials Expert             | No   | No   | Yes                     | No                    | No                    | Limited-fire, ambulance          | No                      | No                             | No                         |
| Local Emergency Planning Committee     | Yes  | Yes  | Yes                     | No                    | No                    | No                               | No                      | Yes-participant on County LEPC | No                         |
| County Emergency Management Commission | Yes  | Yes  | Yes                     | Yes                   | Yes                   | Yes                              | Yes                     | Yes                            | Yes                        |
| Sanitation Department                  | Yes  | Yes  | Yes                     | No                    | Yes                   | Yes                              | No                      | Yes                            | No-contracted service      |
| Transportation Department              | Yes-Secondary Roads                          | No   | Yes                     | Yes-Public Works      | No                    | Yes                              | No                      | Yes                            | No                         |
| Economic Development Department        | No-Cedar County Economic Development Council | No-Cedar County Economic Development Council | Yes                     | No                    | Yes                   | No                               | No                      | Yes                            | No                         |
| Housing Department                     | No   | No   | No                      | No                    | No                    | No                               | No                      | No                             | No                         |
| Planning Consultant                    | No   | No   | No                      | No                    | No                    | No                               | No                      | City Mgr.                      | No                         |
| Regional Planning Agencies             | Yes  | Yes  | Yes                     | Yes                   | Yes                   | Yes                              | Yes                     | Yes                            | Yes                        |

| <b>CAPABILITIES</b>                                | <b>Cedar County</b> | <b>City of Bennett</b>   | <b>City of Clarence</b> | <b>City of Durant</b>                  | <b>City of Lowden</b> | <b>City of Mechanicsville</b>     | <b>City of Stanwood</b> | <b>City of Tipton</b> | <b>City of West Branch</b>                       |
|--|---------------------|--------------------------|-------------------------|--|-----------------------|-----------------------------------|-------------------------|-----------------------|--|
| Historic Preservation                              | Yes                 | No                       | No                      | No                                     | No                    | No                                | No                      | No                    | Yes, West Branch Preservation Commission         |
| <b>Non-Governmental Organizations (NGOs)</b>       |                     |                          |                         |  |                       |                                   |                         |                       |  |
| American Red Cross                                 | No                  | Yes                      | Yes                     | Quad Cities                            | No                    | No                                | Yes                     | No                    | No   |
| Salvation Army                                     | No                  | No                       | Yes                     | Scott County                           | No                    | No                                | Yes                     | No                    | No   |
| Veterans Groups                                    | Yes                 | American Legion          | Yes                     | American Legion and Sons of the Legion | Yes                   | Yes-American Legion and Auxiliary | No                      | Yes                   | Yes, American Legion Chauncey Butler Post 514    |
| Environmental Organization                         | No                  | No                       | Yes                     | No                                     | No                    | No                                | No                      | No                    | No   |
| Homeowner Associations                             | Yes                 | No                       | No                      | No                                     | No                    | No                                | No                      | Yes                   | Yes  |
| Neighborhood Associations                          | No                  | No                       | No                      | No                                     | No                    | No                                | No                      | Not Reported          | No   |
| Chamber of Commerce                                | Yes                 | No                       | No                      | Yes                                    | Yes                   | No                                | No                      | Yes                   | No   |
| Community Organizations (Lions, Kiwanis, etc.      | Yes                 | Lions, Bennett Community | No                      | Lions                                  | Yes                   | Yes                               | Yes                     | Yes-Lions, Rotary     | Yes, Lions Club                                  |
| <b>Financial Resources</b>                         |                     |                          |                         |  |                       |                                   |                         |                       |  |
| Apply for Community Development Block Grants       | Yes                 | Yes                      | Yes                     | Yes                                    | Yes                   | Yes                               | Yes                     | Yes                   | No, Do not meet low-moderate income requirements |
| Fund projects through Capital Improvements funding | Yes                 | Yes                      | Yes                     | Yes                                    | Yes                   | Yes                               | Yes                     | Yes                   | No   |
| Authority to levy taxes for specific purposes      | Yes                 | Yes                      | Yes                     | Yes                                    | Yes                   | Yes                               | Yes                     | Yes                   | Yes  |
| Fees for water, sewer, gas, or electric services   | No                  | Yes                      | Yes-water & sewer       | Yes                                    | Yes                   | Yes                               | Yes                     | Yes                   | Yes  |
| Impact fees for new development                    | No                  | Yes                      | Yes                     | Yes                                    | No                    | Yes                               | No                      | Yes                   | Yes  |

| <b>CAPABILITIES</b>                         | <b>Cedar County</b>   | <b>City of Bennett</b> | <b>City of Clarence</b> | <b>City of Durant</b> | <b>City of Lowden</b> | <b>City of Mechanicsville</b> | <b>City of Stanwood</b> | <b>City of Tipton</b> | <b>City of West Branch</b> |
|---|-----------------------|------------------------|-------------------------|-----------------------|-----------------------|-------------------------------|-------------------------|-----------------------|----------------------------|
| Incur dept through general obligation bonds | Yes-none at this time | Yes                    | Yes                     | Yes                   | Yes                   | Yes                           | Yes                     | Yes                   | Yes                        |
| Incur debt through special tax bonds        | Yes-none at this time | Yes                    | Yes                     | Yes                   | Yes                   | Yes                           | Yes                     | Yes                   | Yes                        |
| Incur debt through private activities       | No                    | Yes                    | No                      | Yes                   | No                    | No                            | No                      | Unknown               | Yes                        |
| Withhold spending in hazard prone areas     | No                    | Yes                    | Yes                     | Yes                   | No                    | Yes                           | No                      | Yes                   | Yes                        |

**Table 2.7. Additional Jurisdictional Capabilities**

| <b>Jurisdiction</b>           | <b>Land Area (square miles)</b> | <b>2013 Pop. Estimate</b> | <b>Mitigation-related Public Education Programs</b> | <b>Mitigation Programs</b>   | <b>Tornado Shelters / Safe Rooms</b>                        | <b>Sirens</b>                      | <b>Other Warning system</b> |
|-------------------------------|---------------------------------|---------------------------|---|--|---|------------------------------------|-----------------------------|
| Cedar County (unincorporated) | 580.000                         | 7,097                     | Ongoing training for fire and ambulance personnel   | Working w/ FEMA Public Assistance to mitigate damages to Rochester Bridge. | No  | None in uninc. county              | WENS                        |
| City of Bennett               | 0.200                           | 396                       | Fire Safety/EMS programs                            | Sewer upgrade project, storm spotters                                      | No  | Yes-1 Activated by Fire Department | None                        |
| City of Clarence              | 0.680                           | 961                       | Monthly Fire Department Training/Exercises          | Yearly walk-through/inspections of critical facilities                     | City Hall Basement- may not be constructed to FEMA standard | Yes-5 Activated by Fire Department | Code Red                    |
| City of Durant                | 1.151                           | 1,832                     | None Reported                                       | Stormwater system improvements   | No  | Yes-2 Activated by Fire            | WENS-through county         |

| Jurisdiction           | Land Area (square miles) | 2013 Pop. Estimate | Mitigation-related Public Education Programs                               | Mitigation Programs  | Tornado Shelters / Safe Rooms  | Sirens   | Other Warning system                 |
|------------------------|--------------------------|--------------------|--|--|--|--|--------------------------------------|
|                        |                          |                    |  |  |  | Department and Public Works  |                                      |
| City of Lowden         | 1.019                    | 780                | None Reported  | FEMA funds for Soil Erosion  | No   | Yes-1 Activated by Fire Department                                       | None                                 |
| City of Mechanicsville | 0.830                    | 1,129              | Fire Prevention Week at Elementary School, "Are You Ready" link on website | Added 3/4 mile of storm sewer along Cedar Street   | No   | Yes-1 Activated by Fire Department                                       | None                                 |
| City of Stanwood       | 0.719                    | 673                | None Reported  | None Reported  | No   | Yes-1 Activated by Fire Department                                       | None                                 |
| City of Tipton         | 2.089                    | 3,199              | Yearly fire safety at schools / DARE Program                               | Received FEMA grant for Safe Room in Fire Station, Stormwater infrastructure improvements, two planned overflows | Yes-Fire Station (FEMA funded out of HMGP)   | Yes-3 Activated by Fire Department-Police Department also has capability | WENS, text, email and calling alerts |
| City of West Branch    | 3.189                    | 2,326              | Promoted WENS system in 8/2014 at Hoover's Hometown Days.                  | None Reported  | Several Tornado Shelters-not constructed to FEMA Standards<br>-Herbert Hoover National Historic Site Visitor Center<br>-Herbert Hoover Presidential Library/Museum<br>-West Branch United Methodist Church | Yes-2 Activated by Fire Department and Public Works                      | WENS                                 |

| Jurisdiction | Land Area (square miles) | 2013 Pop. Estimate | Mitigation-related Public Education Programs | Mitigation Programs | Tornado Shelters / Safe Rooms   | Sirens | Other Warning system |
|--------------|--------------------------|--------------------|--|---------------------|---|--------|----------------------|
|              |                          |                    |  |                     | -West Branch Elementary/Middle School<br>-West Branch Village Storm Shelter |        |                      |

## 2.2.2 Public School District Profiles and Mitigation Capabilities

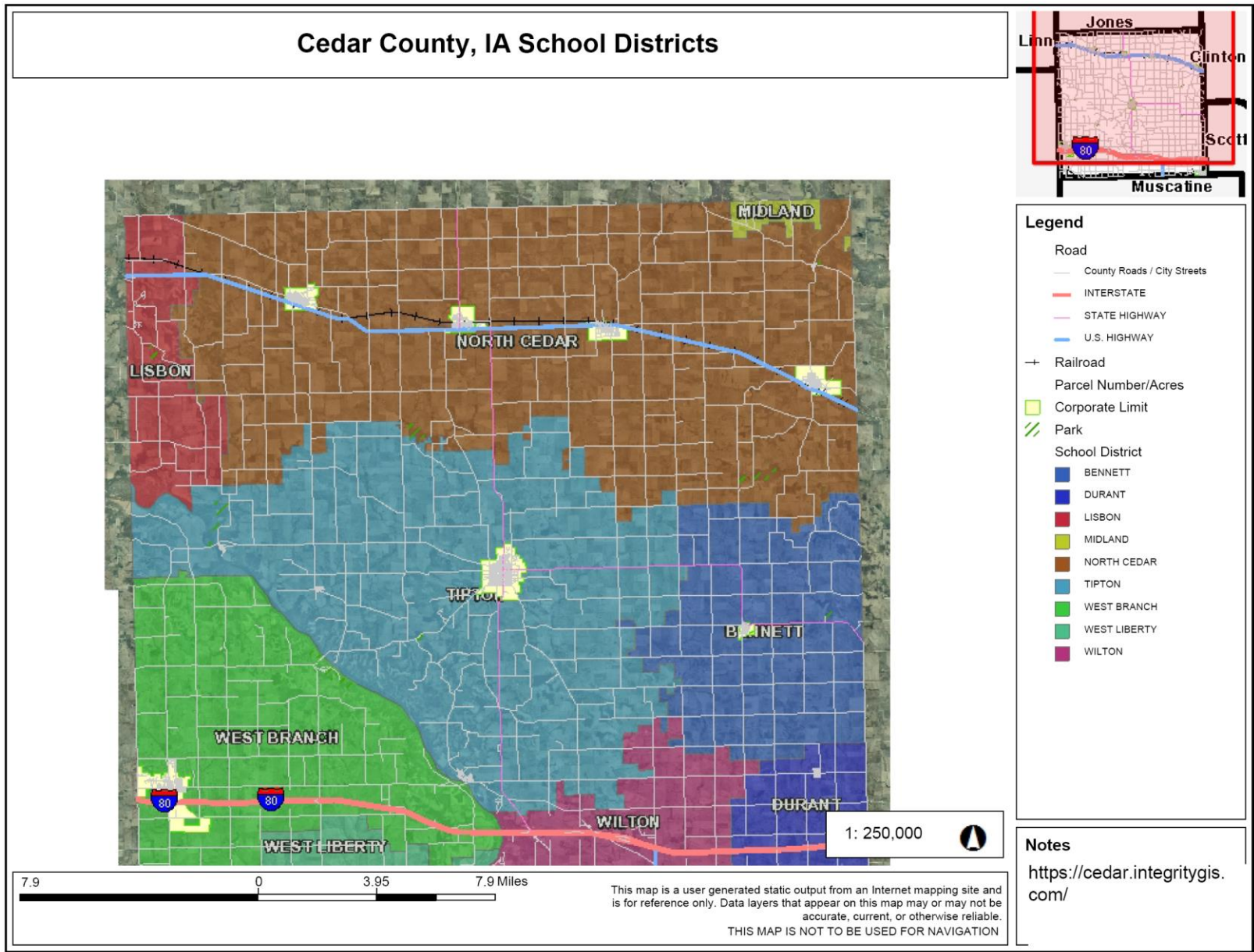
This section includes general profile information for five Cedar County school districts. The five school districts in the planning area are as follows.

|                                      |
|--------------------------------------|
| • Bennett School District, #603      |
| • Durant School District, #1926      |
| • North Cedar School District, #3691 |
| • Tipton School District, #6408      |
| • West Branch School District, #6930 |

**Figure 2.5** provides the boundaries of the school districts in Cedar County and **Table 2.8** 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 Cedar County only.

Note: There are four school districts whose boundaries extend into Cedar County. However those school districts do not have any buildings in Cedar County and are not official participants in this plan. Those school districts are: Midland, Liberty, West Liberty, and Wilton.

Figure 2.5. Cedar County School District Boundaries



Source: Cedar County GIS, <https://cedar.integritygis.com/>



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**Table 2.8. Cedar County School Buildings and Enrollment Data, 2012-2013**

| District Name | Building Name                        | Building Total |
|---------------|--------------------------------------|----------------|
| Bennett       | Bennett Elementary School            | 77             |
| Durant        | Durant High School                   | 244            |
| Durant        | Durant Elementary School             | 275            |
| Durant        | Durant Middle School                 | 198            |
| North Cedar   | North Cedar Middle School            | 266            |
| North Cedar   | North Cedar High School              | 274            |
| North Cedar   | North Cedar Lowden Elementary Center | 123            |
| North Cedar   | North Cedar Mechanicsville Elem Ctr  | 174            |
| Tipton        | Tipton High School                   | 280            |
| Tipton        | Tipton Middle School                 | 276            |
| Tipton        | Tipton Elementary School             | 394            |
| West Branch   | West Branch High School              | 264            |
| West Branch   | West Branch Middle School            | 239            |
| West Branch   | Hoover Elementary School             | 365            |

Source: Iowa Department of Education, Bureau of Planning, Research and Evaluation  
[http://educateiowa.gov/index.php?option=com\\_content&view=article&id=346&Itemid=4439](http://educateiowa.gov/index.php?option=com_content&view=article&id=346&Itemid=4439)

Potential capabilities to implement mitigation programs and projects can vary among school districts. To determine mitigation capabilities, each of the 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 2.9** provides a summary of the reported capabilities for each participating school district.

**Table 2.9. Summary of Mitigation Capabilities, Cedar County Public School Districts**

| Capability                            | Bennett School District                              | Durant School District                | North Cedar School District | Tipton School District | West Branch School District     |
|---------------------------------------|--|---------------------------------------|-----------------------------|------------------------|---------------------------------|
| <b>Planning Elements</b>              |  |                                       |                             |                        |                                 |
| Master Plan                           | No   | Yes-2009/2010 School Year             | No                          | Yes-current            | Yes-8/15/2014                   |
| Capital Improvement Plan              | Yes-7/13   | Yes-updated monthly                   | Yes-2014                    | No                     | Yes-5/10/2014                   |
| School Emergency Plan                 | Yes-7/13   | Yes-updated yearly                    | No                          | Yes-current            | Yes Crisis Management Plan      |
| Weapons Policy                        | Yes-7/09   | Yes-2009/2010 School Year             | Yes-2009                    | Yes-current            | Yes-Board Policy                |
| <b>Personnel Resources</b>            |  |                                       |                             |                        |                                 |
| Full-time building official           | Yes-Principal/Superintendent                         | Yes-Elementary/High School Principals | Yes-Principals (3)          | Yes-Superintendent     | Yes-Building Administrators (5) |
| Emergency Manager                     | No   | Yes-Superintendent                    | No                          | No                     | Yes-Superintendent              |
| Grant Writer                          | No   | No                                    | No                          | No                     | No                              |
| Public Information Officer            | No   | No                                    | No                          | NO                     | Yes-Superintendent              |
| <b>Financial Resources</b>            |  |                                       |                             |                        |                                 |
| Capital Improvements project funding  | Yes  | Yes                                   | Yes                         | Yes                    | Yes                             |
| Local funds                           | No   | Yes                                   | No                          | Yes                    | Yes                             |
| General obligation bonds              | No   | Yes                                   | No                          | Yes                    | Yes                             |
| Bonds                                 | No   | Yes                                   | No                          | Yes                    | Yes                             |
| Private activities/donations          | No   | Yes                                   | No                          | Yes                    | Yes                             |
| State and federal funds               | Yes  | Yes                                   | Yes                         | Yes                    | Yes                             |
| <b>Other</b>                          |  |                                       |                             |                        |                                 |
| Public Address/Emergency Alert System | Yes, including fire and tornado bell warning systems | Yes-school-wide intercom              | Not Reported                | Yes                    | Utilize School Connects         |

| Capability                | Bennett School District  | Durant School District  | North Cedar School District | Tipton School District | West Branch School District                    |
|---------------------------|--|---|-----------------------------|------------------------|--|
| NOAA Weather Radios       | Yes  | Yes   | Not Reported                | Yes                    | Yes  |
| Public Education Programs | Yearly fire and tornado drills conducted; ALICE training began 2013                  | School-wide ALICE training completed                                    | None Reported               | None Reported          | Hazardous Materials training provided to staff |
| Mitigation Programs       | Camera and motion detection, locked front door with buzz-in system                   | Insurance audits, school cameras  | None Reported               | None Reported          | None Reported                                  |
| Tornado Shelter/Saferoom  | Yes-interior 1st floor rooms and basement areas - not certified to FEMA 361 standard | Yes-downstairs in locker room area - not certified to FEMA 361 standard | Not Reported                | No                     | No   |
| Campus Police             | No   | No  | Not Reported                | No                     | No   |