

# **Iowa Flood Mitigation Board**

## **Annual Report for 2014**

**Prepared by the Iowa Department of  
Homeland Security and Emergency Management**

**Mark Schouten, Director**



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# Flood Mitigation Program

The Iowa Flood Mitigation Program is created within Code of Iowa, Chapter 418. The Program seeks to provide funds for flood mitigation projects that otherwise would not be funded. The Flood Mitigation Board is responsible for the implementation Code of Iowa Chapter 418.

The membership of the Board is comprised of four voting public members appointed by the Governor, five voting members representing state agencies, and four non-voting ex-officio members of the legislature. The present membership is:

- Mark Schouten, Chair, Department of Homeland Security and Emergency Management
- Dr. Amy Kaleita, Vice Chair, Public Member
- Jake Friedrichsen, on behalf of Michael Fitzgerald, Treasurer of Iowa
- Lori McDaniel, on behalf of Chuck Gipp, Department of Natural Resources
- Lorraine Glover, Public Member
- Senator Rob Hogg, Iowa Senate
- Ronald Herrig, Public Member
- Carolann Jensen, on behalf of Dave Jamison, Iowa Finance Authority
- Representative Jared Klein, Iowa House of Representatives
- Representative Daniel Lundby, Iowa House of Representatives
- James Gillespie, on behalf of Bill Northey, Secretary of Agriculture

- John Torbert, Public Member
- Senator Dan Zumbach, Iowa Senate

Administrative assistance is provided to the Board by the Iowa Department of Homeland Security and Emergency Management (HSEMD). The Department also provides technical assistance to those governmental entities wishing to complete applications for the Board to consider.

As defined in Chapter 418, an eligible project “means the construction and reconstruction of levees, embankments, impounding reservoirs, or conduits that are necessary for the protection of property from the effects of floodwaters and may include the deepening, widening, alteration, change, diversion, or other improvement of watercourses if necessary for the protection of such property from the effects of floodwaters.”

Eligible applicants to the program are governmental entities. According to Chapter 418 governmental entities means any of the following:

- a county
- a city
- a joint board or other legal or administrative entity established or designated in an agreement pursuant to Chapter 28E between any of the following:
  - o two or more cities located in whole or in part within the same county
  - o a county and one or more cities that are located in whole or in part within the county
  - o a county, one or more cities that are located in whole or in part within the county, and a drain-

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age district formed by mutual agreement under section 468.142 located in whole or in part within the county.

Governmental entities wishing to complete and submit an application for funds must include the following:

a. A project plan that includes:

(1) A detailed description of the project, including all phases of construction or reconstruction included in the project, maintenance plans for the completed project, the estimated cost of the project, and the maximum amount of debt to be incurred for purposes of funding the project; and

(2) A detailed description of all anticipated funding sources for the project, including information relating to either the proposed use of financial assistance from the flood mitigation fund or the proposed use of sales tax increment revenues.

b. A copy of the application for federal funds and subsequent approval letter.

c. A detailed budget.

d. A statement about whether the project is designed to mitigate future flooding of existing property and infrastructure that have sustained significant flood damage and are likely to sustain significant flood damage in the future. Detailed information on the existing property and infrastructure shall be included.



**Union Pacific Railroad Bridge in Cedar Rapids during June 2008 flooding. Photo by Federal Emergency Management Agency**

e. A statement about whether the project plan addresses the impact of flooding both upstream and downstream from the area where the project is to be undertaken and whether the project conforms to any applicable floodplain ordinance.

f. A statement about whether the area that would benefit from the project's flood mitigation efforts is sufficiently valuable to the economic viability of the state or is of sufficient historic value to the state to justify the cost of the project.

g. A statement about the extent to which the project would utilize local matching funds. The board shall not approve a project unless at least 50 percent of the total cost of the project, less any federal financial assistance for the project, is funded using local matching funds, and unless the project will result in nonpublic investment in the governmental entity's area, as defined in Iowa Code section 418.11(3), of an amount equal to 50 percent

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of the total cost of the project. For purposes of this paragraph, “nonpublic investment” means investment by nonpublic entities consisting of capital investment or infrastructure improvements occurring in anticipation of or as a result of the project during the period of time between July 1, 2008, and ten years after the board approves the project.

h. A statement about the extent of nonfinancial support committed to the project from public and nonpublic sources.

i. A statement about whether the project is designed in coordination with other watershed management measures adopted by the governmental entity or adopted by the participating jurisdictions of the governmental entity, as applicable.

j. A statement about whether the project plan is consistent with the applicable comprehensive, countywide emergency operations plan in effect and other applicable local hazard mitigation plans.

k. A statement about whether financial assistance through the flood mitigation program is essential to meet the necessary expenses or serious needs of the governmental entity related to flood mitigation.

l. Any other documents requested by the Board to assist the Board in the consideration of the application.

m. If the governmental entity intends to issue bonds in accordance with Iowa Code section 418.14, the governmental entity shall provide information from the proposed bonding company as to the viability of the bond issuance.

The Board can receive project applications through January 1, 2016. When the Board receives these applications the Code of Iowa asks them to do the following:

1. The Board may request an independent engineering review of the project to determine the technical feasibility, engineering standards, and total estimated cost of the project. Such review may be completed by the United States Army Corps of Engineers. All costs related to the review shall be the responsibility of the governmental entity.

2. The Board shall not approve any project plan that includes financial assistance pursuant to this chapter that would be used to pay principal and interest on or refinance any debt or other obligation existing prior to the approval of the project.

3. The Board shall not approve a project plan application for which the amount of sales tax increment revenue remitted to the governmental entity would exceed \$15 million in any one fiscal year or if approval of the project would result in total remittances in any one fiscal year for all approved projects to exceed, in the aggregate, \$30 million.

4. The Board may contract with or otherwise consult with the Iowa Flood Center, established in Iowa Code section 466C.1, to assist in administering the flood mitigation program and review of applications.

5. The Board, after consulting with the economic development authority, shall approve, defer, or deny the applications.

6. If the application is denied, the Board shall state the reasons for the denial. The governmental entity may resubmit the application for consideration any time prior to January 1, 2016.

7. If the application is approved, the Board shall specify whether the governmental entity is approved for use of the sales tax revenues under



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Iowa Code section 418.12 or whether the governmental entity is approved to receive financial assistance from the flood mitigation fund under Iowa Code section 418.10.

8. If the board approves an application that includes the use of sales tax increment revenues, the Board shall establish the annual maximum amount of such revenues that may be remitted to the governmental entity not to exceed \$15 million or 70 percent of the total yearly amount of increased sales tax revenue in the governmental entity's applicable area and deposited in the governmental entity's account, whichever is less. The board may, however, establish remittance limitations for the project lower than those specified in this section.

9. If the Board approves an application that includes financial assistance from the flood mitigation fund, the Board shall negotiate and execute on behalf of the department all necessary agreements to provide such financial assistance.

10. Upon approval of an application for financial assistance under the program, the Board shall notify the treasurer of state regarding the amount of moneys needed to satisfy the award of financial assistance and the terms of the award.

11. If, following approval of an application, it is determined that the amount of federal financial assistance exceeds the amount of federal financial assistance specified in the application, the Board shall reduce the award of financial assistance from the flood mitigation fund or reduce the amount of sales tax revenue to be received for the project by a corresponding amount.

12. Following the approval of an application which proposes to use sales tax increment reve-

nues, the governmental entity shall adopt a resolution authorizing the use of sales tax increment from the governmental entity's flood project fund. Within ten days of adoption, the governmental entity shall provide a copy of the resolution to the Iowa Department of Revenue.

The two funding sources to support the program are a sales tax increment and a flood mitigation fund.

The sales tax increment consists of the amount of increased sales tax revenue within the governmental entities' boundaries. The Iowa Department of Revenue works with the governmental entity to establish a base year, and in subsequent years, deposits those sales tax revenues that exceed the base year revenues into a separate account maintained by the state treasurer. By law, the Iowa Department of Revenue can only deposit 70 percent of the increment revenue into the account with the remainder going to the state general fund. Funds placed into the account are then made available to the governmental entity to support their flood mitigation project. This funding cannot annually exceed \$15 million for individual governmental entities or \$30 million in aggregate for all governmental entities.

The flood mitigation fund is under the control of the Board and consists of monies appropriated by the General Assembly and any other monies available or obtained by the Board. Monies in the fund can be used to provide financial assistance to governmental entities in the form of grants, loans, and forgivable loans. The Board specifies the terms and conditions of any assistance provided from the fund. Presently, there are no monies in the fund.

# 2014 Flood Mitigation Board Activities

The Flood Mitigation Board convened in Des Moines for two meetings on February 28, 2014, and May 28, 2014.

Technical assistance was provided to potential applicants by the staff of the Iowa Department of Homeland Security and Emergency Management for application development. At the February meeting:

1. The Board unanimously approved the application presented by the City of Cedar Falls seeking sales tax increment funding in the amount of \$6,625,000.
2. During public comment the cities of Winterset, Des Moines, Hartley, Collins and Underwood spoke in support of the general assembly appropriating monies for the Flood Mitigation Program.

During the May meeting:

1. The Board unanimously approved the application presented by the City of Council Bluffs seeking sales tax increment funding in the amount of \$57,000,000.
2. The City of Des Moines and Wastewater Reclamation Authority (WRA) presented an application for sales tax increment funding in the amount of \$95,529,352. Currently, the City of Des Moines and WRA is not an eligible applicant due to the definition of a 'governmental entity' as defined in Iowa Code 418.1 (4). The Board chose to table the application received by the City of Des Moines and WRA until such time that there is a legislative change to the definition that is signed by the Governor.
3. Winterset's Mayor Olsen officially withdrew their application that was tabled by the Board on December 4, 2013, due to monies not appropriated by the General Assembly for the Flood Mitigation Fund.

With the inclusion of the 2014 Board approved projects for the City of Cedar Falls and the City of Council Bluffs, the total cost for all eight approved projects is \$1,005,038,960.

Sales tax increment provides \$453,888,984

Federal funding contributing \$278,435,851

Local funding providing \$272,714,124

It is anticipated that over the design life of these eight projects, \$4,363,859,397 in losses will be avoided. Brief descriptions of the proposed projects, approved funding and expended funding amounts can be found later in this document.

A semi-annual progress report form was developed by HSEMD staff with the first report due from the project applicants by November 15, 2014.

## As of October 31, 2014:

Total sales tax increment funds approved:  
\$453,888,984

Total sales tax increment funds expended:  
\$11,564,557

Remaining funds: \$442,324,427

## Total Funds expended to date:

Federal funding amount \$160,701,157

Local funding amount \$82,131,256

Sales tax increment amount \$11,564,557

Total \$254,396,970

Semi-annual progress reports are available at [www.homelandsecurity.iowa.gov/about\\_HSEMD/flood\\_mitigation\\_board.html](http://www.homelandsecurity.iowa.gov/about_HSEMD/flood_mitigation_board.html).



# Flood Mitigation Board Project Details

On the following pages are details on the eight projects that have been approved by the Flood Mitigation Board to date:

City of Cedar Rapids	\$263,773,493
City of Dubuque	\$98,494,178
City of Iowa City	\$8,497,249
City of Coralville	\$9,769,000
City of Storm Lake	\$4,083,060
City of Waverly	\$5,647,004
City of Cedar Falls	\$6,625,000
City of Council Bluffs	\$57,000,000

Each approved project detail sets out a brief description of the project, Internet links to actual application documents, a project cost breakout, yearly tax increment usage, anticipated avoided damages over the life of the design and increment funds expended and remaining to date.

We have also included a project detail for the application from the City of Des Moines and Wastewater Reclamation Authority that the Board tabled at the May 28, 2014, meeting. This application was tabled until such time the Governor signs a bill that sets out the amendment to change the definition of a governmental entity (418.4(3)).

More information on the Flood Mitigation Board is located on the Iowa Department of Homeland Security and Emergency Management website at [www.homelandsecurity.iowa.gov](http://www.homelandsecurity.iowa.gov).

# City of Cedar Rapids

The City of Cedar Rapids requested tax increment funding in the amount of \$263,773,493 to provide 46 percent of \$570,430,493 total project cost for flood mitigation on both sides of the Cedar River in Cedar Rapids. The goal of the proposed system when completed is to reduce or eliminate the future flood damages resulting from flood events similar or less than the event that occurred in June of 2008. The proposed mitigation system includes construction of 6.24 miles of levee and floodwalls (permanent and removable), 11 pump stations, 21 roadway and railroad gate closures, improvements to a flood prone bridge (elevation of approaches), and design on a second river crossing. While the City believes that, based on 2.5 percent growth in sales tax, it would reach the maximum amount of sales tax increment allowed under state law in FY19, it is asking for the sales tax increment generated each year up to the allowable \$15 million.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CedarRapids\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarRapids_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CedarRapids\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarRapids_Application.pdf)

Project Cost Breakout	
Applicant	Cedar Rapids
Increment funds approved	\$ 263,773,493
Federal Funding	\$ 175,882,000
Local Funding	\$ 130,775,000
Total Project	\$ 570,430,493
Non-public investment	\$ -
Avoided Damages over design life (HSEMD provided number)	\$ 1,025,800,000
Increment funds expended to date	\$ 9,020,263
Increment funds remaining	\$ 254,753,230
Federal funds expended to date	\$ 75,341,778
Local funds expended to date	\$ 13,787,033

Yearly Tax Increment		
2014	\$	2,499,988
2015	\$	5,062,477
2016	\$	7,689,027
2017	\$	10,381,241
2018	\$	13,140,760
2019	\$	15,000,000
2020	\$	15,000,000
2021	\$	15,000,000
2022	\$	15,000,000
2023	\$	15,000,000
2024	\$	15,000,000
2025	\$	15,000,000
2026	\$	15,000,000
2027	\$	15,000,000
2028	\$	15,000,000
2029	\$	15,000,000
2030	\$	15,000,000
2031	\$	15,000,000
2032	\$	15,000,000
2033	\$	15,000,000
2034	\$	-
2035	\$	-

# City of Dubuque

The Bee Branch Watershed Flood Mitigation Project is a multi-phased approach to address the severe and frequent flash flooding experienced in the Bee Branch Watershed in the City of Dubuque. As outlined in the Drainage Basin Master Plan, the engineering report by HDR Engineering (Omaha, Neb.), the improvements associated with the Bee Branch Watershed Flood Mitigation Project will mitigate the flooding experienced over the past twelve years in four ways: reduce the volume of floodwaters; reduce the flow of floodwaters; increase floodwater conveyance capacity through watershed; and providing barriers between critical facilities and floodwaters. This multi-faceted, holistic approach includes the following phases: 1. Carter Road Detention Basin; 2. West 32nd Street Detention Basin; 3. Historic Millwork District; 4. Lower Bee Branch Creek Restoration; 5. Flood Mitigation Gate Replacement; 6. Impervious Surface Reduction; 7. Upper Bee Branch Creek Restoration; 8. 22nd Street Storm Sewer Improvements; 9. Flood Mitigation Maintenance Facility; 10. North End Storm Sewer Improvements; 11. Water Plant Flood Protection; and 12. 17th Street Storm Sewer Improvements.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Dubuque\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Dubuque_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Dubuque\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Dubuque_Application.pdf)

Project Cost Breakout		
Applicant		Dubuque
Increment funds approved	\$	<b>98,494,178</b>
Federal Funding	\$	25,756,556
Local Funding	\$	76,678,802
Total Project	\$	<b>200,929,536</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	582,000,000
Increment funds expended to date	\$	2,249,857
Increment funds remaining	\$	<b>96,244,321</b>
Federal funds expended to date	\$	11,264,101
Local funds expended to date	\$	39,092,755

Yearly Tax Increment		
2014	\$	332,469
2015	\$	1,407,664
2016	\$	2,132,255
2017	\$	2,871,049
2018	\$	3,624,322
2019	\$	4,392,361
2020	\$	5,175,452
2021	\$	5,973,893
2022	\$	6,787,982
2023	\$	6,944,414
2024	\$	6,968,288
2025	\$	6,946,514
2026	\$	6,957,577
2027	\$	6,947,487
2028	\$	6,947,500
2029	\$	6,500,000
2030	\$	6,000,000
2031	\$	5,500,000
2032	\$	3,260,000
2033	\$	2,824,951
2034	\$	-
2035	\$	-

# City of Iowa City

The Iowa City project includes two steps involving the relocation of the wastewater treatment operations. The first step of the flood mitigation project was the relocation of wastewater operations from the north plant to a newer plant located south of Iowa City and out of the flood plain. This involved designing the larger south facility, upgrading the south plant, and then expanding the south plant.

The second step of the project is to demolish the flood prone north wastewater treatment facility. This would involve demolishing the entire site. The final step would be to create new flood capacity at the site. This would involve creating a five acre wetland in the southern portion of the north plant area and stream bank restoration along Ralston Creek where it meets the Iowa River.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_IowaCity\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_IowaCity_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_IowaCity\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_IowaCity_Application.pdf)

Project Cost Breakout		
Applicant		Iowa City
Increment funds approved	\$	<b>8,497,249</b>
Federal Funding	\$	35,011,800
Local Funding	\$	19,933,200
Total Project	\$	<b>63,442,249</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	130,000,000
Increment funds expended to date	\$	158,187
Increment funds remaining	\$	<b>8,339,062</b>
Federal funds expended to date	\$	35,011,800
Local funds expended to date	\$	16,489,156

Yearly Tax Increment		
2014	\$	172,676.35
2015	\$	642,053.76
2016	\$	802,613.40
2017	\$	1,074,890.20
2018	\$	1,321,915.69
2019	\$	1,551,832.50
2020	\$	1,805,515.70
2021	\$	1,125,751.40
2022	\$	-
2023	\$	-
2024	\$	-
2025	\$	-
2026	\$	-
2027	\$	-
2028	\$	-
2029	\$	-
2030	\$	-
2031	\$	-
2032	\$	-
2033	\$	-
2034	\$	-
2035	\$	-

# City of Coralville

This project consists of multiple small projects in two phases comprising a comprehensive approach to mitigating damages from both Clear Creek and Biscuit Creek, back-up flooding from the Iowa River, and overland flooding issues caused by rainfall during high water events. The City has already committed over \$13,750,000 of local, state, and federal funds to undertake work in the first phase of the project (already completed). This work includes construction of two new storm water pumping stations, storm water collection improvements to direct storm water to the pumping stations, and construction of over 2,400 linear feet of flood walls and berms along the flood plain of the creeks, including a 710-foot section that is integrated into a private apartment complex parking structure. This does not include the accompanying work completed or in process by the City of Iowa City or the University of Iowa, with which the City of Coralville partnered to create a comprehensive flood mitigation plan for the area around the Iowa River affected by the floods of 2008.

The uncompleted work (Phase II) involves two components: 1. Construction of a flood wall; and 2. Elevating the 5th Street Bridge to prevent flooding of 5th Street and the area immediately adjacent to and downstream of Biscuit Creek.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Coralville\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Coralville_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Coralville\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Coralville_Application.pdf)

Project Cost Breakout		
Applicant		Coralville
Increment funds approved	\$	<b>9,769,000</b>
Federal Funding	\$	8,546,161
Local Funding	\$	5,204,498
Total Project	\$	<b>23,519,659</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	57,000,000
Increment funds expended to date	\$	68,424
Increment funds remaining	\$	<b>9,700,576</b>
Federal funds expended to date	\$	8,546,161
Local funds expended to date	\$	5,204,498

Yearly Tax Increment		
2014	\$	620,772
2015	\$	2,757,894
2016	\$	3,919,311
2017	\$	2,471,023
2018	\$	-
2019	\$	-
2020	\$	-
2021	\$	-
2022	\$	-
2023	\$	-
2024	\$	-
2025	\$	-
2026	\$	-
2027	\$	-
2028	\$	-
2029	\$	-
2030	\$	-
2031	\$	-
2032	\$	-
2033	\$	-
2034	\$	-
2035	\$	-

# City of Storm Lake

The City of Storm Lake requested assistance from the Flood Mitigation Fund Program for help in funding a project consisting of four separate phases as follows: 1. East Central Storm Water Project; 2. North Central Storm Water Project; 3. East 10th Street Project (street reconstruction due to North Central Project); and 4. Expansion Blvd. Storm Water Project.

These four phases will address the worst flooding areas within the City of Storm Lake providing relief to both residential and commercial/industrial properties within the corporate limits of the City of Storm Lake. The project is generally located on the East side of Storm Lake.

All phases of the project total an investment of \$8,166,120.84 in storm water management and cleaning in Storm Lake and will have a positive impact on over 2,300 people and over 3,000 properties.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_StormLake\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_StormLake_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_StormLake\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_StormLake_Application.pdf)

Project Cost Breakout		
Applicant		Storm Lake
Increment funds approved	\$	<b>4,083,060</b>
Federal Funding	\$	1,403,436
Local Funding	\$	2,679,624
Total Project	\$	<b>8,166,120</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	17,849,370
Increment funds expended to date	\$	22,579
Increment funds remaining	\$	<b>4,060,481</b>
Federal funds expended to date	\$	680,179
Local funds expended to date	\$	1,400,288

Yearly Tax Increment		
2014	\$	-
2015	\$	500
2016	\$	54,324
2017	\$	54,324
2018	\$	54,324
2019	\$	54,324
2020	\$	238,210
2021	\$	239,411
2022	\$	242,433
2023	\$	245,360
2024	\$	248,192
2025	\$	250,929
2026	\$	253,571
2027	\$	257,118
2028	\$	259,553
2029	\$	262,894
2030	\$	266,124
2031	\$	270,243
2032	\$	273,236
2033	\$	277,117
2034	\$	280,873
2035	\$	-



# City of Waverly

The Waverly flood mitigation improvements consist of mitigating flood hazards from the Cedar River and Dry Run Creek which have overlapping flood plains. After the 2008 Cedar River flood the Waverly Dam was reconstructed with an inflatable dam that was completed in November of 2011, effectively eliminating the threat of flooding from the Cedar River for 450 homes and businesses (Phase 1). However, most of these homes and businesses are still at risk of flooding from the Dry Run Creek and the City of Waverly is proposing to complete flood mitigation improvements that will permanently remove these properties from the FEMA 100-year floodplain.

The Dry Run Creek improvements are divided into three sections to better facilitate construction scheduling. Upon entering into an agreement for state funding assistance the City of Waverly will immediately begin flood mitigation work starting with the section "A" of the Dry Run Creek from 4th Street SW (IA116) to W. Bremer Avenue (IA3) with construction occurring in 2015. The section "B" of the Dry Run Creek from W. Bremer Avenue (IA3) to 7th Street NW is projected to be constructed in 2015-16. Construction of section "C" of the Dry Run Creek from 1st Street SW to 4th Street SW (IA116) is projected to also be built in 2015-16.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Waverly\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Waverly_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_Waverly\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Waverly_Application.pdf)

Project Cost Breakout		
Applicant		Waverly
Increment funds approved	\$	<b>5,647,004</b>
Federal Funding	\$	4,223,898
Local Funding	\$	1,429,996
Total Project	\$	<b>11,300,898</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	56,000,000
Increment funds expended to date	\$	0
Increment funds remaining	\$	<b>5,647,004</b>
Federal funds expended to date	\$	4,247,759
Local funds expended to date	\$	1,260,106

Yearly Tax Increment		
2014	\$	152,384
2015	\$	236,446
2016	\$	313,965
2017	\$	398,087
2018	\$	488,081
2019	\$	575,332
2020	\$	579,990
2021	\$	582,873
2022	\$	580,092
2023	\$	580,300
2024	\$	579,079
2025	\$	580,375
2026	\$	-
2027	\$	-
2028	\$	-
2029	\$	-
2030	\$	-
2031	\$	-
2032	\$	-
2033	\$	-
2034	\$	-
2035	\$	-

# City of Cedar Falls

After the historic flooding that occurred in June of 2008, the City of Cedar Falls decided that increasing the protection level of the downtown flood levee and floodwall system was one of the highest priorities for the City. The 2008 flood event exceeded the design event for the existing levee system, and even with the assistance of emergency flood fighting procedures the levee was overtopped, flooding the Cedar Falls Utilities. The intent of this project is to increase the level of protection for the city to the 0.2 percent annual probability (500-year) level of protection. Increasing the flood protection levels for the city will require additional levee and/or floodwall extensions, modifications to existing storm sewer gate wells, modifications to closure structures (pedestrian and street openings), and modifications to areas with sandbag closure plans. A technical memorandum has been submitted to the US Army Corps of Engineers (COE) which summarizes the existing conditions, recommends improvements to the system, and requests COE approval to initiate final planning and design for improvement to the downtown Cedar Falls flood protection system.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CedarFalls\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarFalls_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CedarFalls\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarFalls_Application.pdf)

Project Cost Breakout		
Applicant		Cedar Falls
Increment funds approved	\$	<b>6,625,000</b>
Federal Funding	\$	4,812,000
Local Funding	\$	1,813,000
Total Project	\$	<b>13,250,000</b>
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	187,694,302
Increment funds expended to date	\$	45,247
Increment funds remaining	\$	<b>6,579,753</b>
Federal funds expended to date	\$	4,812,000
Local funds expended to date	\$	1,738,000

Yearly Tax Increment		
2014	\$	580,134
2015	\$	1,177,673
2016	\$	1,793,137
2017	\$	2,427,065
2018	\$	646,991
2019	\$	-
2020	\$	-
2021	\$	-
2022	\$	-
2023	\$	-
2024	\$	-
2025	\$	-
2026	\$	-
2027	\$	-
2028	\$	-
2029	\$	-
2030	\$	-
2031	\$	-
2032	\$	-
2033	\$	-
2034	\$	-
2035	\$	-

# City of Council Bluffs

The Council Bluffs flood mitigation project will consist of 22 unique improvements to the levee system to eliminate known deficiencies in order to meet current levee design and accreditation standards. The improvements will increase the redundancy, resiliency, and robustness of the levee system thereby reducing the potential for catastrophic failure.

In addition to these levee improvements, the Indian Creek channel upstream of the leveed section is deteriorating and requires rehabilitation and replacement. The 76-year-old channel drains just over 15 square miles upstream of the city and is designed to safely convey floodwaters through critical portions of the city. The Indian Creek channel improvements include removal and replacement of open, concrete-lined channel, rehabilitation or replacement of existing bridge crossings, replacement of damaged sections of lateral pipes that outlet into the creek, and relocation or protection of critical, at-risk utilities, as funding permits.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CouncilBluffs\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CouncilBluffs_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_CouncilBluffs\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CouncilBluffs_Application.pdf)

Project Cost Breakout			Yearly Tax Increment	
Applicant		Council Bluffs		
Increment funds approved	\$	<b>57,000,000</b>	2014	\$ -
Federal Funding	\$	22,800,000	2015	\$ 1,000,000
Local Funding	\$	34,200,000	2016	\$ 1,695,000
Total Project	\$	<b>114,000,000</b>	2017	\$ 2,278,000
Non-public investment	\$	-	2018	\$ 2,871,000
Avoided Damages over design life (HSEMD provided number)	\$	2,307,515,725	2019	\$ 3,400,000
Increment funds expended to date	\$	0	2020	\$ 2,200,000
Increment funds remaining	\$	<b>57,000,000</b>	2021	\$ 2,000,000
Federal funds expended to date	\$	20,797,379	2022	\$ 2,350,000
Local funds expended to date	\$	3,159,420	2023	\$ 2,200,000
			2024	\$ 2,200,000
			2025	\$ 2,200,000
			2026	\$ 2,700,000
			2027	\$ 2,700,000
			2028	\$ 2,750,000
			2029	\$ 3,200,000
			2030	\$ 3,700,000
			2031	\$ 3,700,000
			2032	\$ 5,350,000
			2033	\$ 5,350,000
			2034	\$ 3,156,000
			2035	\$ -

# City of Des Moines & Wastewater Reclamation Authority

The City of Des Moines and Des Moines Metropolitan Wastewater Reclamation Authority (WRA) are working together in flood prevention efforts. The Wastewater Reclamation Facility (WRF) is located within the city limits of Des Moines and bounded on the south by the Des Moines River. Therefore, flooding in Des Moines, especially along the Des Moines River, has a direct impact on the WRA's ability to provide uninterrupted wastewater treatment service to its customers. In addition, interrupted service would impact the citizens, businesses, and economy of the City of Des Moines most, as the city is the largest customer base of the WRA.

The proposed flood protection plan consists of four phases of comprehensive flood protection improvements for the City of Des Moines and WRA. This balanced flood mitigation approach includes modifications to levees, reducing water elevation by removing restrictions, providing additional flood water storage and conveyance, and partially treating and removing water from the combined sewer system. Phase 1 includes projects that have been completed, and have been funded by various sources. Phase 2 includes projects that are currently underway. Phases 3 and 4 include projects that have been identified by technical or professional studies that benefit the City of Des Moines and the WRA by increasing flood prevention and protection.

For more information on this project:

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_DesMoines\\_ExecSummary.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_DesMoines_ExecSummary.pdf)

[www.homelandsecurity.iowa.gov/documents/misc/FLOOD\\_DesMoines\\_Application.pdf](http://www.homelandsecurity.iowa.gov/documents/misc/FLOOD_DesMoines_Application.pdf)

Project Cost Breakout		
Applicant		DSM-WRA
Increment funds REQUESTED	\$	95,529,352
Federal Funding	\$	118,460,434
Local Funding	\$	62,320,596
Total Project	\$	276,310,382
Non-public investment	\$	-
Avoided Damages over design life (HSEMD provided number)	\$	1,527,655,795
Increment funds expended to date	\$	
Increment funds remaining	\$	
Federal funds expended to date	\$	
Local funds expended to date	\$	

Yearly Tax Increment		
2014	\$	-
2015	\$	1,000,000
2016	\$	2,000,000
2017	\$	3,500,000
2018	\$	4,529,352
2019	\$	5,000,000
2020	\$	5,000,000
2021	\$	5,000,000
2022	\$	5,000,000
2023	\$	5,000,000
2024	\$	5,000,000
2025	\$	5,000,000
2026	\$	5,000,000
2027	\$	5,000,000
2028	\$	5,000,000
2029	\$	5,000,000
2030	\$	5,000,000
2031	\$	5,500,000
2032	\$	6,000,000
2033	\$	6,500,000
2034	\$	6,500,000
2035	\$	-