

IOWA DEPARTMENT OF HOMELAND SECURITY & EMERGENCY MANAGEMENT

2017

Iowa Flood Mitigation Board Annual Report



[This page is intentionally blank.]

Table of Contents

Flood Mitigation Program.....	4
Flood Mitigation Board Activities	6
Flood Mitigation Board Project Details	7
City of Cedar Rapids	8
City of Dubuque	9
City of Iowa City	10
City of Coralville	11
City of Storm Lake.....	12
City of Waverly.....	13
City of Cedar Falls	14
City of Council Bluffs.....	15
City of Des Moines & Wastewater Reclamation Authority.....	16
City of Burlington	17

Flood Mitigation Program

The Iowa Flood Mitigation Program was signed into law by Governor Terry Branstad in April 2012 as a mechanism to assist local governments in their efforts to break the cycle of damage, reconstruction, and repeated damage caused by flooding. The program strives to reduce or eliminate the risk from, and effects of, flooding by providing funds for flood mitigation projects that otherwise would not be funded.

To administer the Flood Mitigation Program, the 2012 law created the Flood Mitigation Board. The Board is comprised of four voting public members appointed by the governor, five voting members representing state agencies, four non-voting ex officio members of the general assembly, and one non-voting ex officio member representing a state agency. The present membership is:

- Mark Schouten, Chair, Department of Homeland Security and Emergency Management
- Dr. Amy Kaleita, Vice Chair, public member
- Adam Phillips, on behalf of Michael Fitzgerald, Treasurer of Iowa
- Lori McDaniel, on behalf of Chuck Gipp, Department of Natural Resources



July 2014 flooding in Burlington.

- Lorraine Glover, public member
- Senator Rob Hogg, Iowa Senate
- Ronald Herrig, public member
- Carolann Jensen, on behalf of David Jamison, Iowa Finance Authority
- Representative David Sieck, Iowa House of Representatives
- Representative Patti Ruff, Iowa House of Representatives
- James Gillespie, on behalf of Bill Northey, Secretary of Agriculture
- John Torbert, public member
- Senator Tom Shipley, Iowa Senate
- Courtney Kay-Decker, Iowa Department of Revenue

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 Iowa Code 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:

Flood Mitigation Program

- a county
- a city
- a joint board or other legal or administrative entity established or designated in an agreement pursuant to Iowa Code Chapter 28E or 28F between any of the following:
 - two or more cities located in whole or in part within the same county
 - a county and one or more cities that are located in whole or in part within the county
 - a county, one or more cities that are located in whole or in part within the county, and a drainage district formed by mutual agreement under Iowa Code § 468.142 located in whole or in part within the county.
 - One or more counties, one or more cities that are located in whole or in part within those counties, and one or more sanitary districts established under Iowa Code Chapter 358 or a combined water and sanitary district as provided for in Iowa Code § 357.1B and Iowa Code § 358.1B, located in whole or in part within those counties.

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 depos-



Work on the City of Dubuque's Bee Branch flood mitigation project.

it 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.

The application period for funding closed Jan. 1, 2016. The board continues to work with the communities that were awarded funding through review of project status reports and making adjustments if necessary.

Flood Mitigation Board Activities

The Flood Mitigation Board convened in Des Moines for two meetings in 2016 on June 20 and July 1.

Technical assistance for application development was provided to applicants by the staff of HSEMD. At the June meeting:

- The Board unanimously delayed actions on the requests by the City of Des Moines and Metropolitan Wastewater Reclamation Authority and the City of Coralville to amend the sales tax increment funding schedules.
- The Board unanimously approved the request submitted by the City of Storm Lake to amend the agreement to extend the project completion date to Dec. 1, 2016. There was no increase to the total amount of sales tax increment previously awarded.
- The Board unanimously approved the request submitted by the City of Iowa City to amend the agreement to extend the project completion date to Jan. 31, 2018. There is no increase to the total amount of sales tax increment previously awarded.

During the July meeting:

- The Board unanimously approved the requests submitted by the City of Des Moines and Wastewater Reclamation Authority, and the City of Coralville, to amend the agreements for the increment exchange in the years 2017 and 2018 and countering the offset in 2019 and 2020.
- The Board unanimously approved the request submitted by the City of Coralville to amend the agreement to extend the sales tax increment schedule to year 2034.

The total cost for all 10 approved projects is \$1,383,505,438.

Sales tax increment provides \$596,826,780

Federal funding contributes \$425,742,978

Local funding provides \$360,935,679

It is anticipated that over the design life of these projects, more than \$6 billion 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 reports due from the project applicants by May 15 and Nov. 15, 2017.

As of Oct. 31, 2017:

Total sales tax increment funds approved:
\$596,826,780

Total sales tax increment funds expended:
\$128,254,002

Remaining funds:
\$468,572,778

Total funds expended to date:

Federal funding amount \$327,968,795

Local funding amount \$202,288,916

Sales tax increment amount \$128,254,002

Total \$658,511,713

Semi-annual construction and spending progress reports are available at www.homelandsecurity.iowa.gov/about_HSEMD/flood_mitigation_board.html.

Flood Mitigation Board Project Details

On the following pages are details on the 10 projects that have been approved by the Flood Mitigation Board to date.

Projects included are:

- City of Cedar Rapids
- City of Dubuque
- City of Iowa City
- City of Coralville
- City of Storm Lake
- City of Waverly
- City of Cedar Falls
- City of Council Bluffs
- City of Des Moines and Metropolitan Wastewater Reclamation Authority
- City of Burlington

For more information on the Flood Mitigation Program, the Flood Mitigation Board, and projects approved by the Board, visit www.homelandsecurity.iowa.gov/about_HSEMD/flood_mitigation_board.html.

City of Cedar Rapids

The City of Cedar Rapids amended its initial requested tax increment funding and the Board approved the amount of \$269,411,016 to provide 46 percent of \$576,068,016 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 damage 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 flood walls (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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarRapids_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarRapids_Application.pdf

Project Cost Breakout	
Applicant	Cedar Rapids
Increment funds approved	\$ 269,411,016
Federal funding	\$ 175,882,000
Local funding	\$ 130,775,000
Total project	\$ 576,068,016
Non-public investment	\$ 146,991,257
Avoided damage over design life (HSEMD provided number)	\$ 1,025,800,000
Increment funds expended to date	\$ 37,130,723
Increment funds remaining	\$ 232,280,293
Federal funds expended to date	\$ 87,339,836
Local funds expended to date	\$ 22,753,684

Yearly Tax Increment	
2014	\$ 2,499,988
2015	\$ 10,700,000
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, and the engineering report by HDR from Omaha, Neb., the improvements associated with the Bee Branch Watershed Flood Mitigation Project will mitigate the flooding experienced over the past 12 years in four ways: reduce the volume of floodwaters, reduce the flow of floodwaters, increase floodwater conveyance capacity through the watershed, and provide barriers between critical facilities and floodwaters. This multifaceted, 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, 12. 17th Street Storm Sewer Improvements.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Dubuque_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Dubuque_Application.pdf

Project Cost Breakout		
Applicant		Dubuque
Increment funds approved	\$	98,494,178
Federal funding	\$	25,756,556
Local funding	\$	76,678,802
Total project	\$	200,929,536
Non-public investment	\$	103,395,673
Avoided damage over design life (HSEMD provided number)	\$	582,000,000
Increment funds expended to date	\$	52,698,701
Increment funds remaining	\$	45,795,477
Federal funds expended to date	\$	27,670,828
Local funds expended to date	\$	51,460,739

Yearly Tax Increment		
2014	\$	395,704
2015	\$	2,655,058
2016	\$	3,476,709
2017	\$	5,016,027
2018	\$	5,173,389
2019	\$	3,692,361
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	\$	2,935,823
2032	\$	1,500,000
2033	\$	1,500,000
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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_IowaCity_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_IowaCity_Application.pdf

Project Cost Breakout		
Applicant		Iowa City
Increment funds approved	\$	8,497,249
Federal funding	\$	35,011,800
Local funding	\$	19,933,200
Total project	\$	63,442,249
Non-public investment	\$	168,500,000
Avoided damage over design life (HSEMD provided number)	\$	130,000,000
Increment funds expended to date	\$	7,067,035
Increment funds remaining	\$	1,430,214
Federal funds expended to date	\$	35,011,800
Local funds expended to date	\$	16,848,876

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 damage 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, which the City of Coralville partnered with 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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Coralville_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Coralville_Application.pdf

Project Cost Breakout		
Applicant		Coralville
Increment funds approved	\$	9,769,000
Federal funding	\$	8,546,161
Local funding	\$	5,204,498
Total project	\$	23,519,659
Non-public investment	\$	22,155,203
Avoided damage over design life (HSEMD provided number)	\$	57,000,000
Increment funds expended to date	\$	9,769,000
Increment funds remaining	\$	0
Federal funds expended to date	\$	8,546,161
Local funds expended to date	\$	6,411,545

Yearly Tax Increment		
2014	\$	82,199
2015	\$	1,470,793
2016	\$	1,419,311
2017	\$	1,471,023
2018	\$	1,471,023
2019	\$	1,471,023
2020	\$	557,954
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 Program to fund a project consisting of four separate phases: 1. East Central Storm Water Project, 2. North Central Storm Water Project, 3. East 10th Street Project (street reconstruction due to North Central Project), 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. The project is generally located on the east side of Storm Lake. All phases of the project total an investment of \$8,166,121 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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_StormLake_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_StormLake_Application.pdf

Project Cost Breakout		
Applicant		Storm Lake
Increment funds approved	\$	4,083,060
Federal funding	\$	1,403,436
Local funding	\$	2,679,624
Total project	\$	8,166,120
Non-public investment	\$	500,000
Avoided damage over design life (HSEMD provided number)	\$	17,849,370
Increment funds expended to date	\$	141,403
Increment funds remaining	\$	3,941,657
Federal funds expended to date	\$	1,403,436
Local funds expended to date	\$	6,492,862

Yearly Tax Increment		
2014	\$	-
2015	\$	80,000
2016	\$	80,000
2017	\$	80,000
2018	\$	107,000
2019	\$	131,060
2020	\$	185,000
2021	\$	220,000
2022	\$	250,000
2023	\$	250,000
2024	\$	250,000
2025	\$	250,000
2026	\$	275,000
2027	\$	275,000
2028	\$	275,000
2029	\$	275,000
2030	\$	275,000
2031	\$	275,000
2032	\$	275,000
2033	\$	275,000
2034	\$	-
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 floodplains. After the 2008 Cedar River flood the Waverly Dam was reconstructed with an inflatable dam that was completed in November of 2011 and effectively eliminated the threat of flooding from the Cedar River for 450 homes and businesses (Phase 1). However, most of these homes and businesses were at risk of flooding from the Dry Run Creek and the City of Waverly is proposing flood mitigation improvements that will permanently remove these properties from the FEMA 100-year floodplain.

The Dry Run Creek improvements were divided into three sections to better facilitate construction scheduling. Upon entering into an agreement for State funding assistance the City of Waverly constructed flood mitigation measures 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. Section B of the Dry Run Creek from W. Bremer Avenue (IA3) to 7th Street NW was constructed in 2015-16, and construction of section C of the Dry Run Creek from 1st Street SW to 4th Street SW (IA116) was built in 2015-16. Construction is complete.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Waverly_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Waverly_Application.pdf

Project Cost Breakout		
Applicant		Waverly
Increment funds approved	\$	5,647,004
Federal funding	\$	4,223,898
Local funding	\$	1,430,000
Total project	\$	11,300,902
Non-public investment	\$	6,500,000
Avoided damage over design life (HSEMD provided number)	\$	56,000,000
Increment funds expended to date	\$	5,647,004
Increment funds remaining	\$	0
Federal funds expended to date	\$	4,247,759
Local funds expended to date	\$	3,568,548

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 flood wall 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 flood wall extensions, modifications to existing storm sewer gate wells, modifications to closure structures (pedestrian and street openings), and modifications to areas with sand-bag closure plans. A technical memorandum has been submitted to the U.S. 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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarFalls_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CedarFalls_Application.pdf

Project Cost Breakout		
Applicant		Cedar Falls
Increment funds approved	\$	6,625,000
Federal funding	\$	4,812,000
Local funding	\$	1,813,000
Total project	\$	13,250,000
Non-public investment	\$	-
Avoided damage over design life (HSEMD provided number)	\$	187,694,302
Increment funds expended to date	\$	1,070,600
Increment funds remaining	\$	5,554,400
Federal funds expended to date	\$	4,812,000
Local funds expended to date	\$	1,985,863

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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CouncilBluffs_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_CouncilBluffs_Application.pdf

Project Cost Breakout		
Applicant		Council Bluffs
Increment funds approved	\$	57,000,000
Federal funding	\$	22,800,000
Local funding	\$	34,200,000
Total project	\$	114,000,000
Non-public investment	\$	7,563,263
Avoided damage over design life (HSEMD provided number)	\$	2,307,515,725
Increment funds expended to date	\$	4,135,078
Increment funds remaining	\$	52,864,922
Federal funds expended to date	\$	22,801,385
Local funds expended to date	\$	13,248,106

Yearly Tax Increment		
2014	\$	-
2015	\$	1,000,000
2016	\$	1,695,000
2017	\$	2,278,000
2018	\$	2,871,000
2019	\$	3,400,000
2020	\$	2,200,000
2021	\$	2,000,000
2022	\$	2,350,000
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 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, and reducing flood risk due to rainfall interior to the levee system by upgrading storm sewer and pump station systems to meet FEMA standards. Phase 1 includes projects that have been completed, and have been funded by various sources. Phase 2 includes projects that are currently underway. Phase 3 and Phase 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.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_DesMoines_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_DesMoines_Application.pdf

Project Cost Breakout		
Applicant		DSM-WRA
Increment funds approved	\$	111,100,273
Federal funding	\$	130,270,434
Local funding	\$	67,239,013
Total project	\$	308,609,720
Non-public investment	\$	30,281,706
Avoided damage over design life (HSEMD provided number)	\$	1,527,655,795
Increment funds expended to date	\$	7,512,747
Increment funds remaining	\$	103,587,526
Federal funds expended to date	\$	128,570,434
Local funds expended to date	\$	77,665,693

Yearly Tax Increment		
2014	\$	-
2015	\$	-
2016	\$	12,454,364
2017	\$	7,157,182
2018	\$	4,220,931
2019	\$	2,775,220
2020	\$	3,646,793
2021	\$	4,100,179
2022	\$	3,884,705
2023	\$	3,726,214
2024	\$	3,549,750
2025	\$	3,414,434
2026	\$	3,300,942
2027	\$	3,151,191
2028	\$	2,939,276
2029	\$	2,772,786
2030	\$	2,606,680
2031	\$	5,502,608
2032	\$	5,118,012
2033	\$	6,779,006
2034	\$	15,000,000
2035	\$	15,000,000

City of Burlington

The Burlington Downtown Mississippi Riverfront Plan provides a conceptual plan for improvements which will help mitigate the flooding experienced in the Burlington riverfront area. The plan reduces the flow of storm water toward the riverfront while providing barriers between floodwaters and the Burlington riverfront and the critical infrastructure of the wastewater treatment plant.

The proposed flood protection plan consists of nine phases of comprehensive flood protection improvements for the City of Burlington. Phases V, VI, VII and IX will utilize sales tax increment funding. The proposed flood control strategy includes a combination of permanent and removable flood walls, modifications to storm sewers and pump stations, installation and rehabilitation to sanitary lift stations, and the use of green infrastructure.

Details on this project can be found at:

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Burlington_ExecSummary.pdf

www.homelandsecurity.iowa.gov/documents/misc/FLOOD_Burlington_Application.pdf

Project Cost Breakout		
Applicant		DSM-WRA
Increment funds approved	\$	26,200,000
Federal funding	\$	17,036,693
Local funding	\$	20,982,542
Total project	\$	64,219,235
Non-public investment	\$	101,523,743
Avoided damage over design life (HSEMD provided number)	\$	118,081,853
Increment funds expended to date	\$	3,081,711
Increment funds remaining	\$	23,118,289
Federal funds expended to date	\$	7,565,156
Local funds expended to date	\$	1,853,000

Yearly Tax Increment		
2014	\$	-
2015	\$	-
2016	\$	275,873
2017	\$	416,484
2018	\$	558,909
2019	\$	703,171
2020	\$	849,295
2021	\$	997,303
2022	\$	1,147,221
2023	\$	1,299,072
2024	\$	1,452,883
2025	\$	1,608,677
2026	\$	1,766,481
2027	\$	1,926,322
2028	\$	2,088,224
2029	\$	2,252,214
2030	\$	2,418,320
2031	\$	2,586,569
2032	\$	2,756,988
2033	\$	1,095,994
2034	\$	-
2035	\$	-