

HUD National Disaster Resilience Competition Grant



National Disaster Resiliency Competition

The Iowa Watershed Approach

A vision for a more resilient Iowa



Governor Branstad



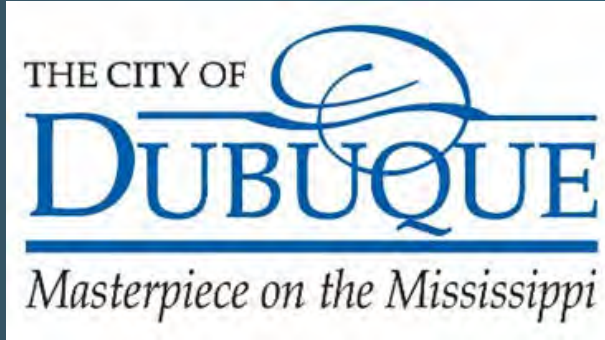
Dr. Larry Webber, Flood Center



Doug Hoelscher
Director of Iowa Office
in Washington, DC



Iowa Watershed Approach Dubuque Team



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National Disaster Resilience Competition



- Funder: US Dept. of Housing and Urban Development (HUD) and the Rockefeller Foundation
- Funding Level: \$1 billion
- Applicant: State of Iowa
- *Iowa Watershed Approach* program development by City of Dubuque, Iowa Flood Center, and Department of Homeland Security/Emergency Management

National Disaster Resilience Competition

By the Numbers

\$1 Billion Dollar Grant Fund

\$500 Million HUD-NDRC

\$500 Million Rockefeller Foundation

2 YEARS OF GRANT WRITING

National Disaster Resilience Competition

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3 Application Rounds – National Competition

1 Threshold – 48 successful move to Phase 2

2 Phase One – 40 successful move to Phase 3

3 Phase Two – 13 successful awardees

National Resilience Competition

By the Numbers

13 NDRC Award Recipients

California - \$70,359,459

Connecticut - \$54,277,359

Iowa - \$96,887,177

Louisiana - \$92,629,249

New Jersey - \$15,000,000

New York - \$35,800,000

Tennessee - \$44,502,374

Virginia - \$120,549,000

New York City - \$176,000,000

New Orleans - \$141,260,569

Minot, ND - \$74,340,770

Shelby County, TN - \$60,445,163

Springfield, MA - \$17,056,880

Iowa receives 4th HIGHEST Award!

National Disaster Resiliency Competition

By the Numbers

Dubuque receives \$31.5 million

of the

Iowa Award \$96,887,177

Bee Branch Healthy Homes \$8,427,665

22nd Street/Kaufmann to Kane \$11.5 m

17th Street/West Locust \$2.6 million

Railroad Culvert - \$9 million

NDRC's Program Goals



- Help communities recover from prior disasters and improve their ability to withstand and recover more quickly from future disasters, hazards, and shocks
- Consider future risks and vulnerabilities in planning and decision-making
- Help communities better understand their risks and identify ways in which they can protect the long-term well-being and safety of residents



NDRC's Program Justification

2015 - 10 national climate disasters @ cost over \$1 billion each
2016 already experienced 9 climate disasters @ \$1 billion each

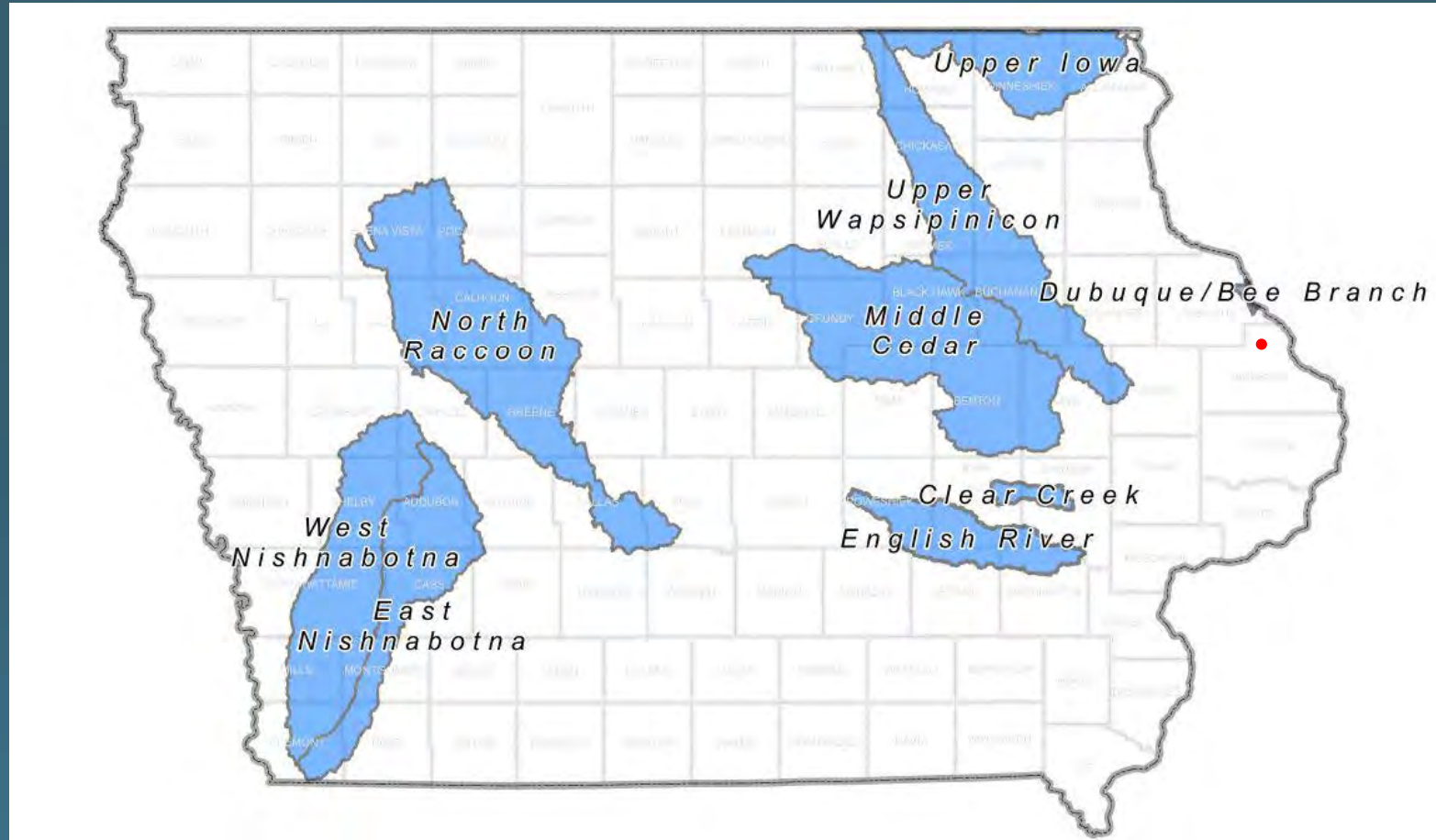


“Mitigation is the effort to reduce the loss of life and property by lessening the impact of disasters. A recent study by the Multi-hazard Mitigation Council* shows that each dollar spent on mitigation saves an average of four dollars.” FEMA

Resilience

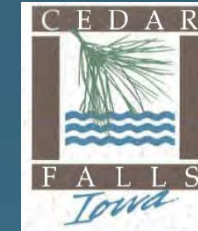
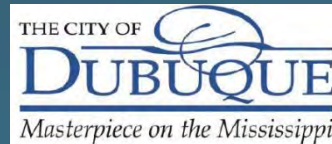
Helping cities, organizations, and communities better prepare for, respond to, and transform from disruption.

Iowa Grant Award: \$96,887,177

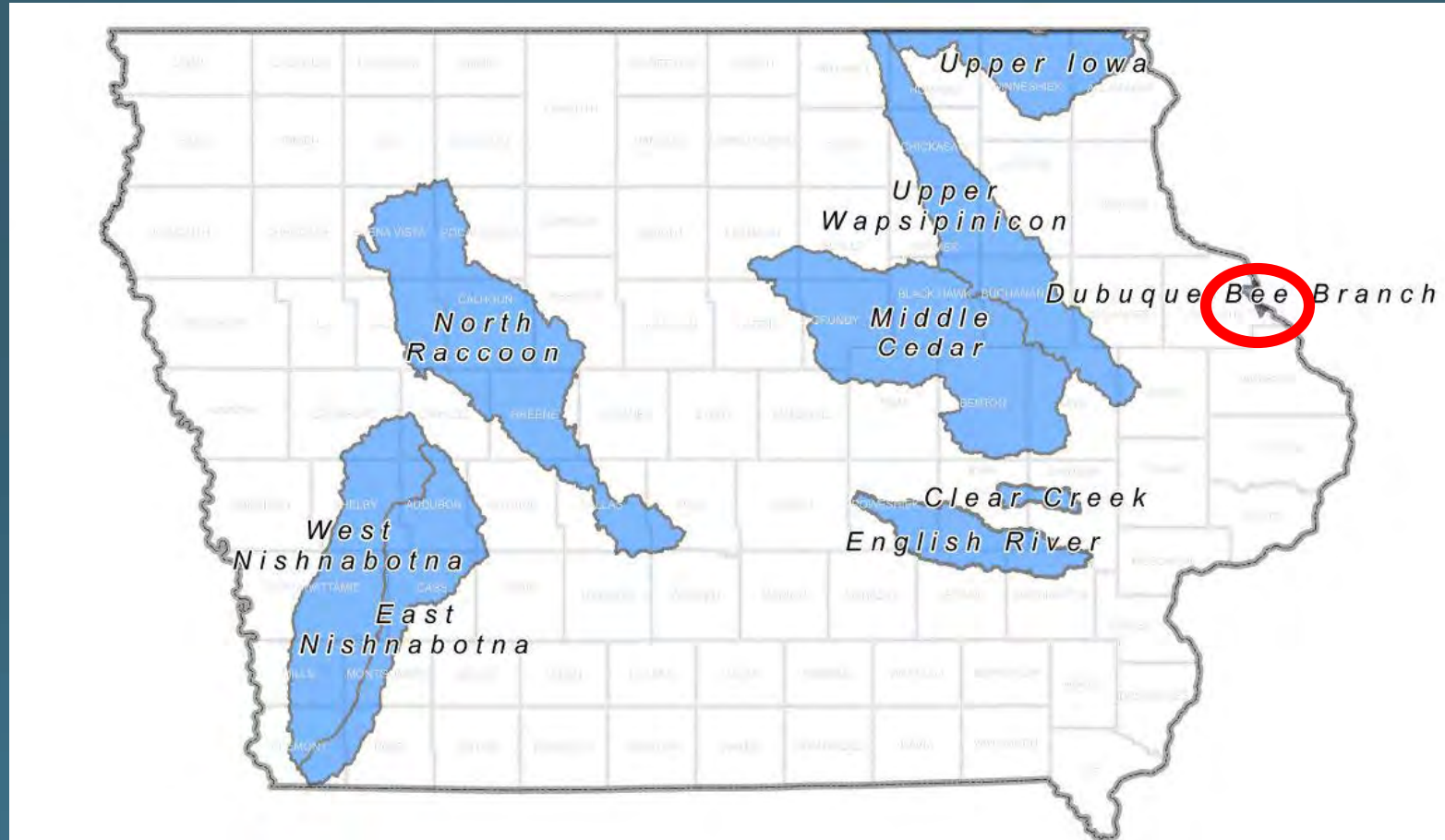


2016-2021 Iowa Watershed Approach

Iowa Watershed Approach Partners



Iowa Grant Award: \$96,887,177



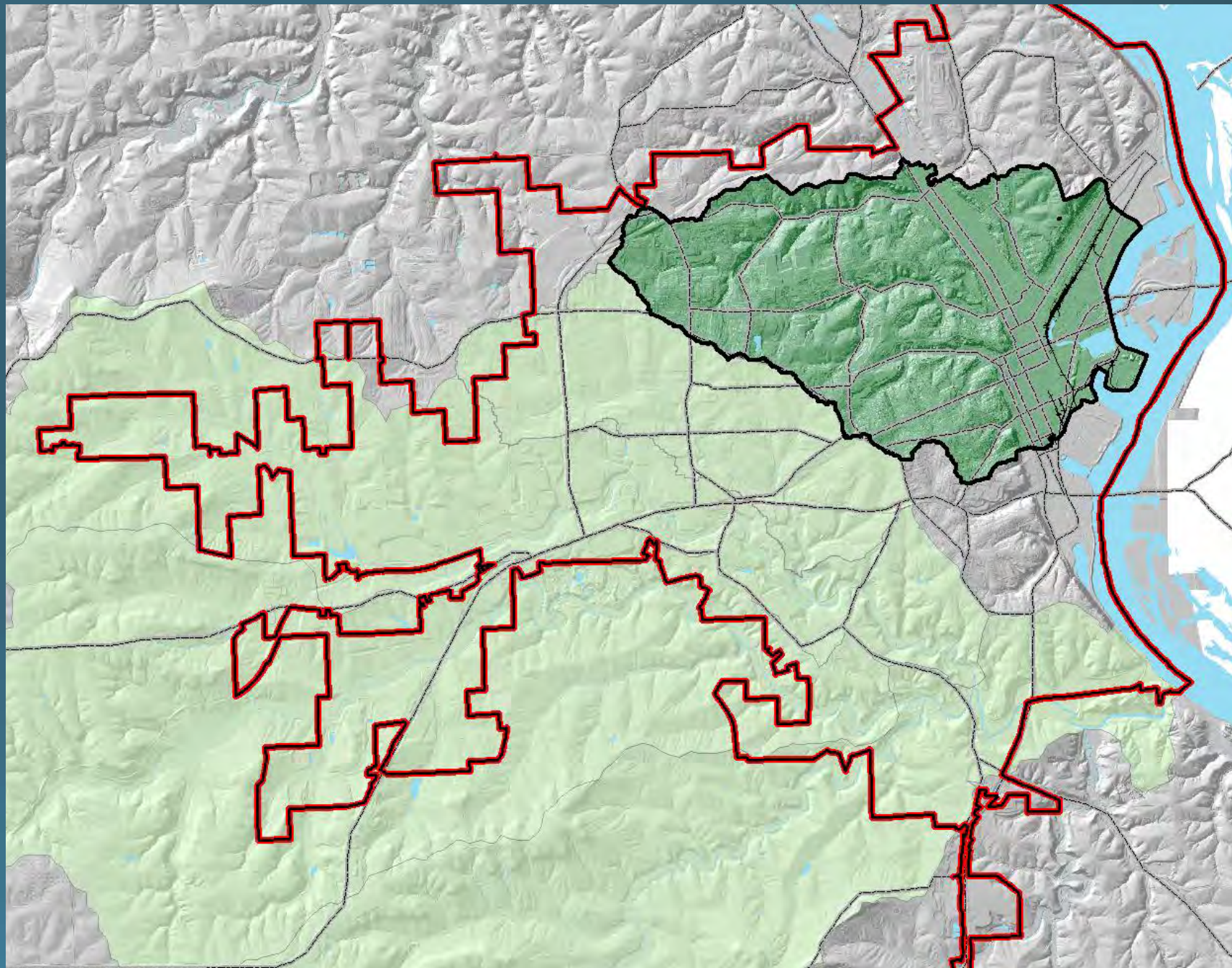
2016-2021 Iowa Watershed Approach



 City Limits

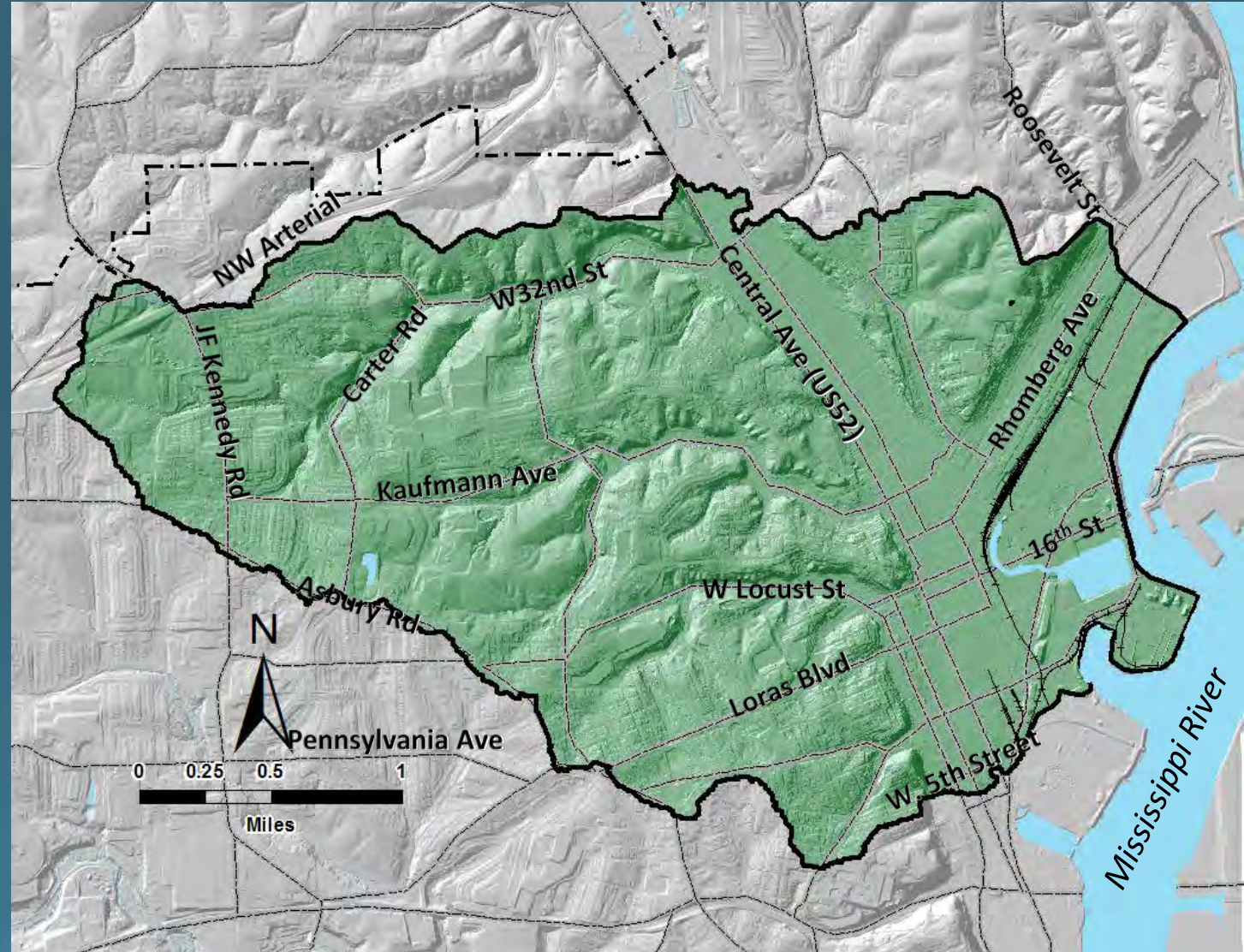
 Bee Branch Watershed

 Catfish Creek Watershed





 Bee Branch Watershed



History of Bee Branch Flooding

Presidential Disaster Declaration: May 21, 1999

Disaster #	1277
Reason for Declaration	Flooding, severe storms, tornadoes
Cause of Damage	3 inches of rain in 1.5 hours

Presidential Disaster Declaration: June 19, 2002

Disaster #	1420
Reason for Declaration	Flooding and storms
Cause of Damage	4.9 inches of rain in 24 hours

Presidential Disaster Declaration: June 2, 2004

Disaster #	1518
Reason for Declaration	Flooding, severe storms, tornadoes
Cause of Damage	3.9 inches of rain in 48 hours

Presidential Disaster Declaration: May 27, 2008

Disaster #	1763
Reason for Declaration	Flooding, severe storms, tornadoes
Cause of Damage	Record 15.7 inches of rain in 2 months

Presidential Disaster Declaration: August 14, 2010

Disaster #	1930
Reason for Declaration	Flooding, severe storms, tornadoes
Cause of Damage	4.8 inches of rain in 12 hours

Presidential Disaster Declaration: August 30, 2011

Disaster #	4018
Reason for Declaration	Flooding, severe storms, tornadoes
Cause of Damage	10.2 inches of rain in 12 hours

History of Bee Branch Flooding

May, 1999

Disaster Strikes!

“In Dubuque, water 5 to 6 feet high was reported between the 20th and 28th blocks of Jackson, Washington and White Streets.”

Telegraph Herald – May 18, 1999

“We had points where water was chest deep.”

- Dubuque Fire Chief Dan Brown
(Telegraph Herald – May 18, 1999)

History of Bee Branch Flooding

May, 1999

Disaster Strikes!



Basement Flooding



Private & Personal Property Damage

History of Bee Branch Flooding

May, 1999

Disaster Strikes!

Major Street Damage:

Valley Street

Washington Street

University Ave.

Foye Street



Valley Street

History of Bee Branch Flooding

July, 2011

Disaster Strikes!

“Storms dumped more than a foot of rain on parts of the Tri-States, flooding streets, homes and buildings.”

“Dubuque Public Works Director Don Vogt (states) that in his 36-years in Dubuque, he has never seen flooding of this magnitude.”

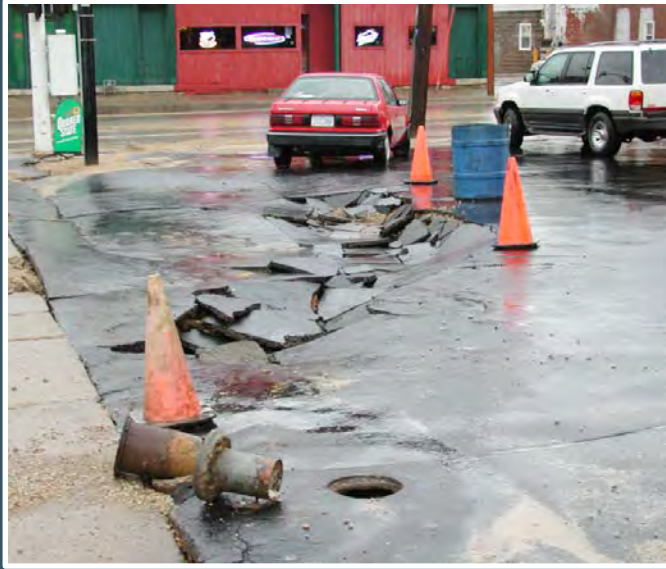
The Gazette
(July 28, 2011)

History of Bee Branch Flooding



From 2004 to 2009 **the assessed value of commercial property in the flood prone area decreased by 6%** while it increased by 39% elsewhere in the city.

History of Bee Branch Flooding



Estimated damages due to the
six disasters from 1999 to 2011
totals **\$69.8 million**



Culvert Damage



Resiliency Grant

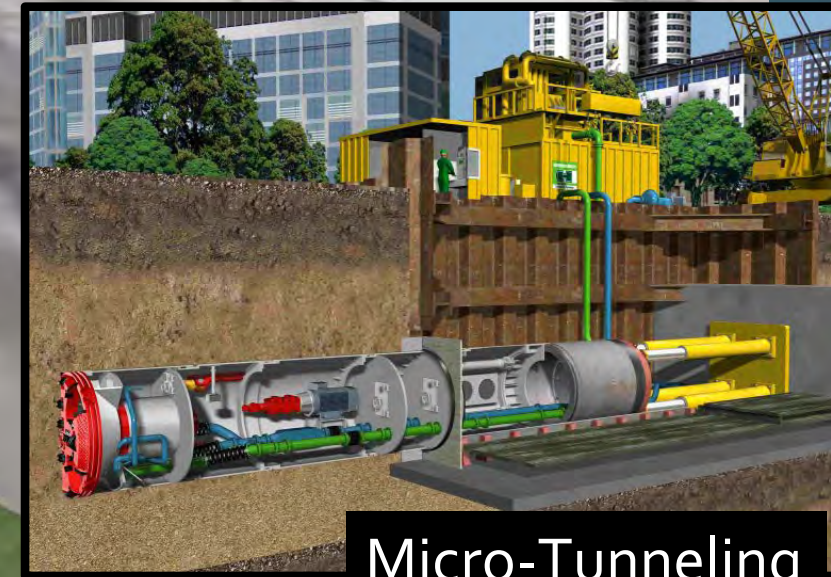
Bee Branch Creek Railroad Culverts

Existing Bee Branch

Proposed Culverts



\$9 million



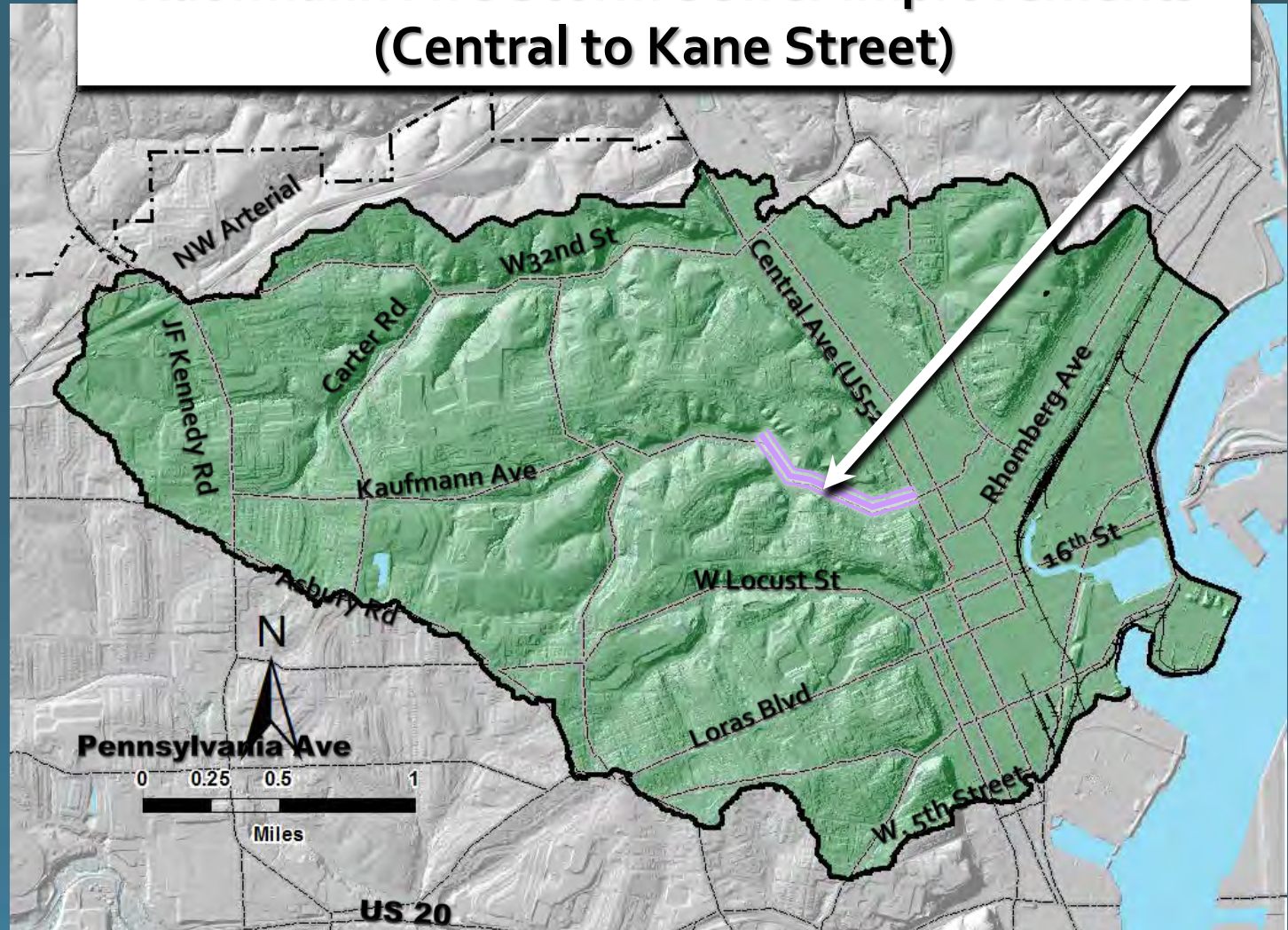
Micro-Tunneling

Resiliency Grant



\$11.5 million

Kaufmann Ave Storm Sewer Improvements (Central to Kane Street)

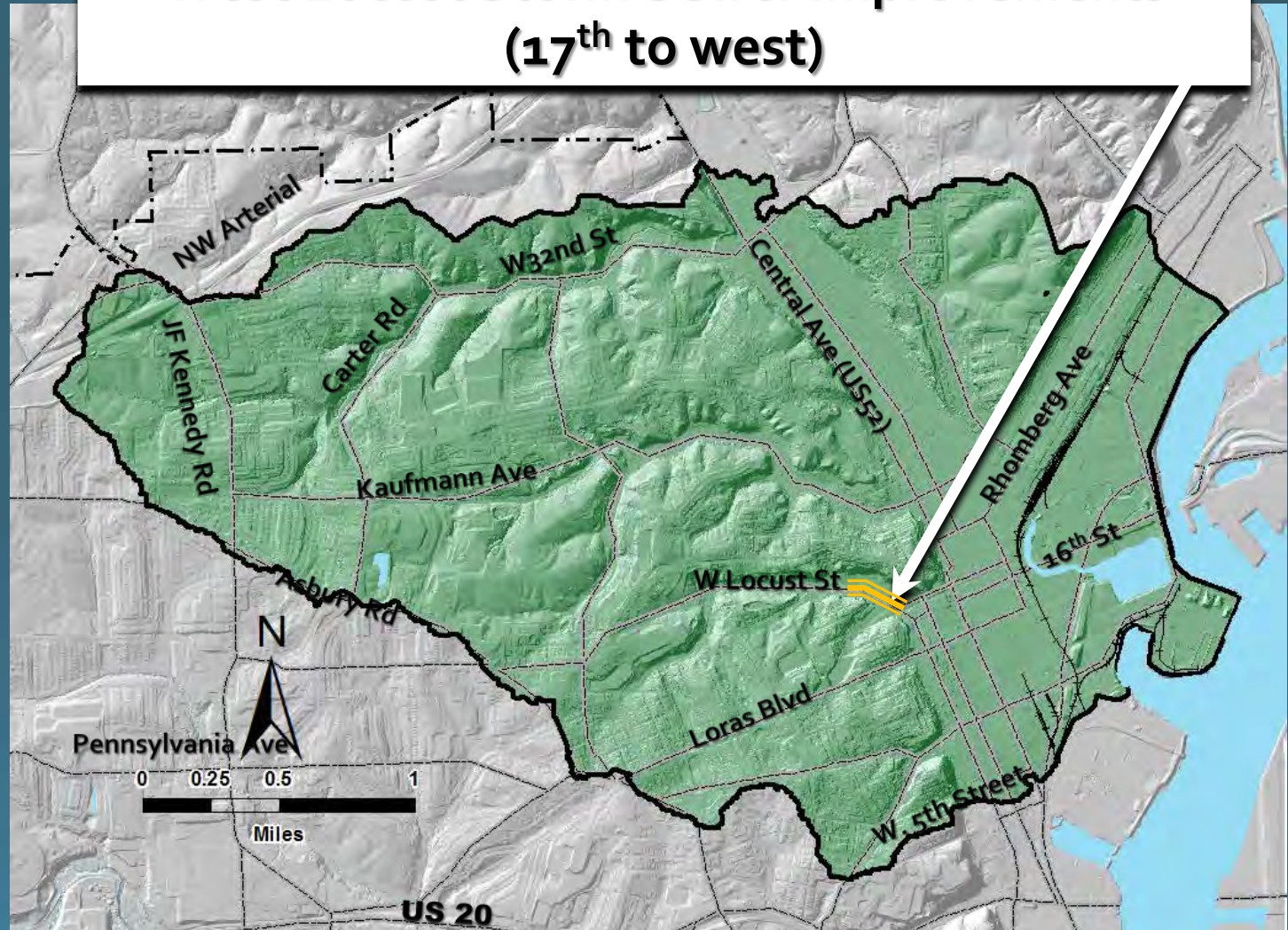


Resiliency Grant



\$2.6 million

West Locust Storm Sewer Improvements (17th to west)



Bee Branch Healthy Homes Resiliency



Housing Impact



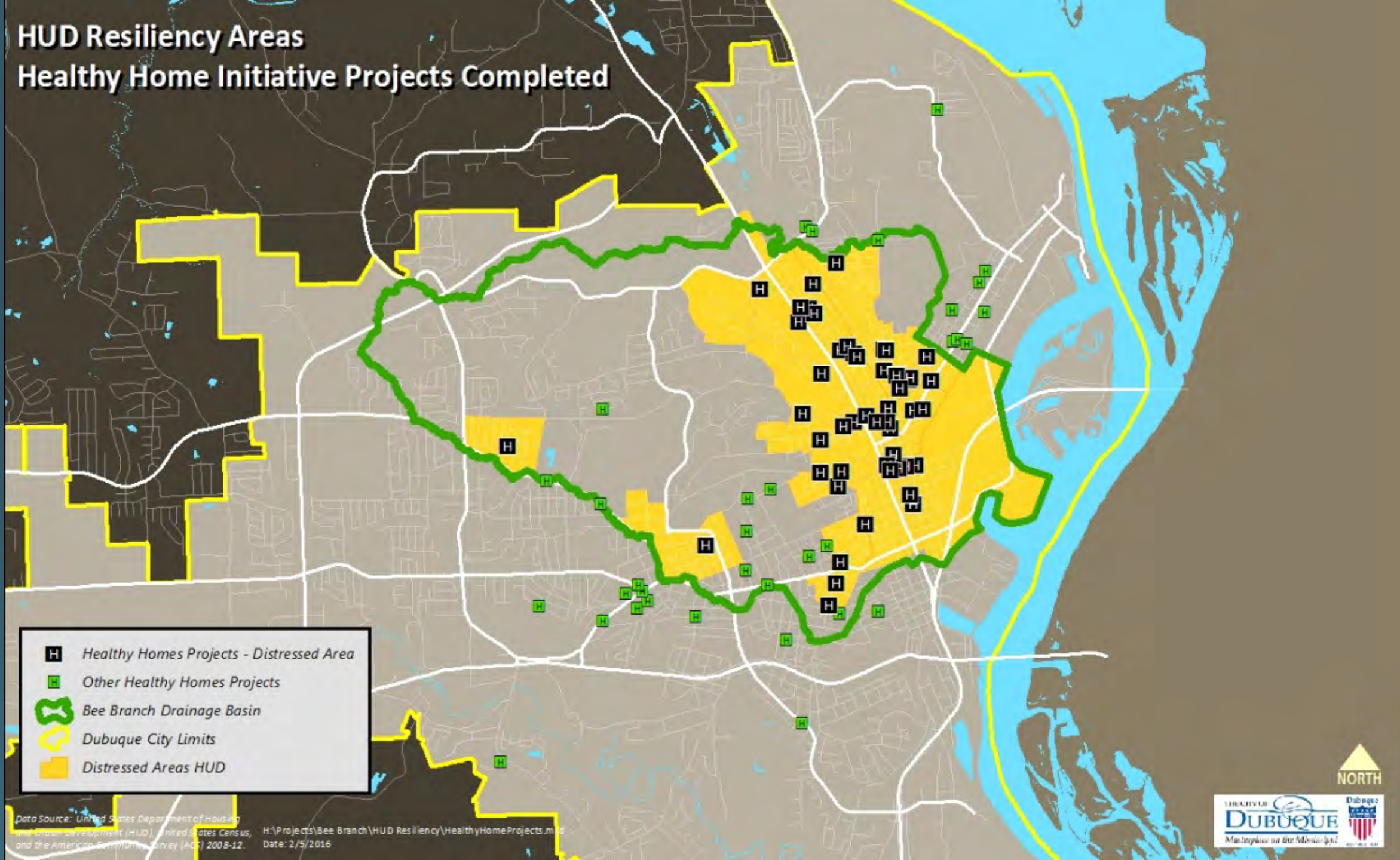
Over 50% of Dubuque's residents live or work in the Bee Branch Watershed

85% of properties are historic

57% over 100 years old

HUD Resiliency Areas

Healthy Home Initiative Projects Completed



Projected Number of Family Units to be made Resilient

188 Single Family Owner-Occupied units = 188 Family units

30 Duplexes = 60 Family units

28 Single Family Rental units = 28 Family units

5 Quad-plexes = 20 Family units

4 Triplexes = 12 Family units

1 12-plex = 12 Family units

Income Guidelines

The Maximum Income Guidelines for this Program will be as follows:

Family Size	Income
1	\$37,750
2	\$43,150
3	\$48,550
4	\$53,900
5	\$58,250
6	\$62,550

Stafford Relocation Act

- Since this is a National Resiliency Grant, Federal and State regulations require the City of Dubuque to assist those rental families with relocation assistance from the flood of 2011 following the Stafford Relocation Act.
- All tenants of rental units that have to relocate as a result of the work needed to be done to make the housing unit resilient, will be compensated for relocation costs and time spent in another unit.
- They will also receive assistance from Home Advocate Services.

Resiliency Grant

\$8,427,665 million

- Foundation repairs
- Water and sewage services
- Furnace replacement
- Water heater replacement
- Basement windows
- Mold and mildew remediation
- Lead remediation
- Soil modification
- Lateral connection repairs
- Sump pumps
- Downspouts



Neighborhood & Community Impact

- C.H.A.N.G.E.
 - \$4.2 million, 100 units
- Lead and Healthy Homes
 - \$3.2 million, 129 units
- Bee Branch Healthy Homes Resiliency
 - \$8.4 million, 320 units

\$15.8 million
549 Housing Units







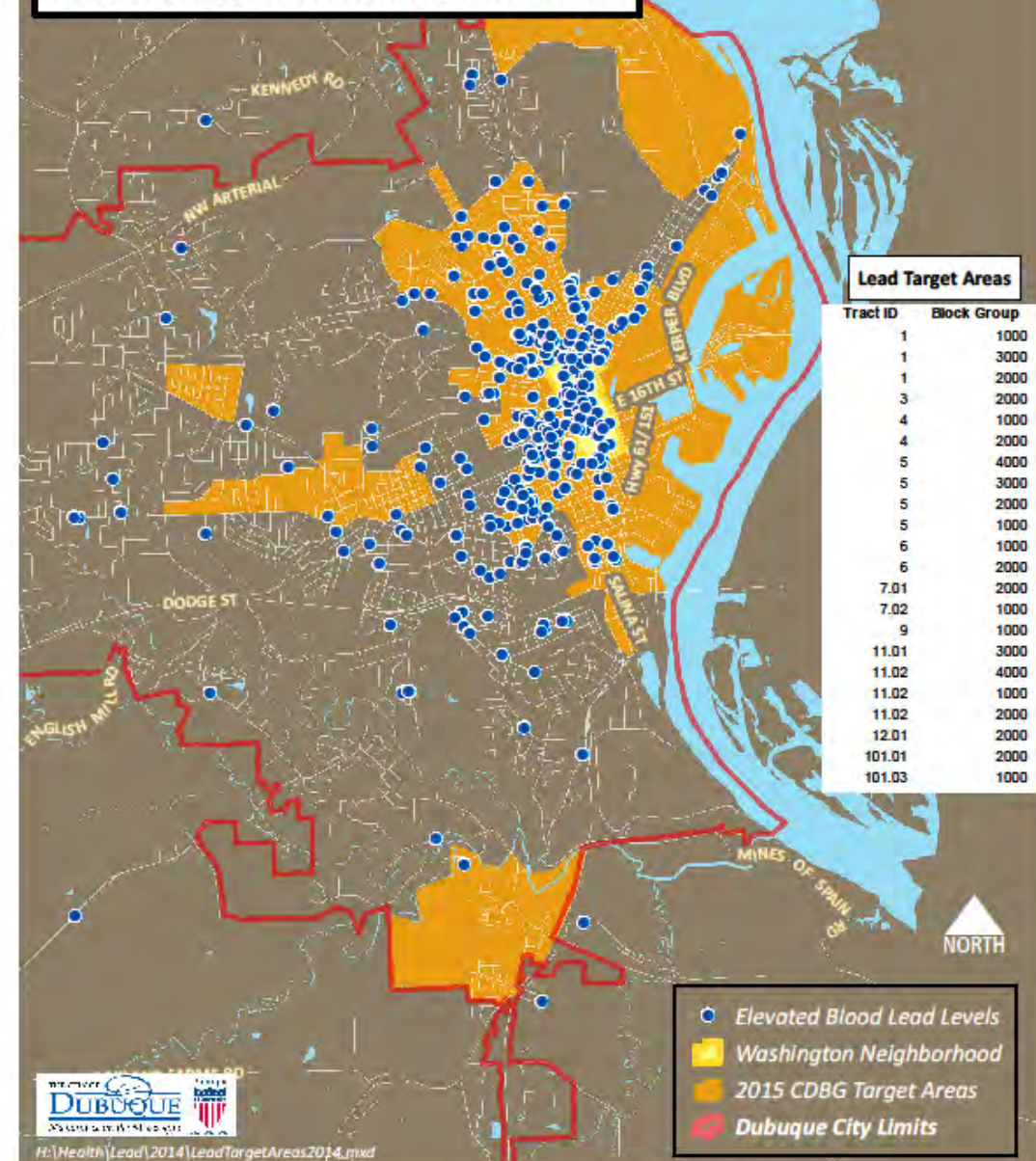
Lead paint can poison...



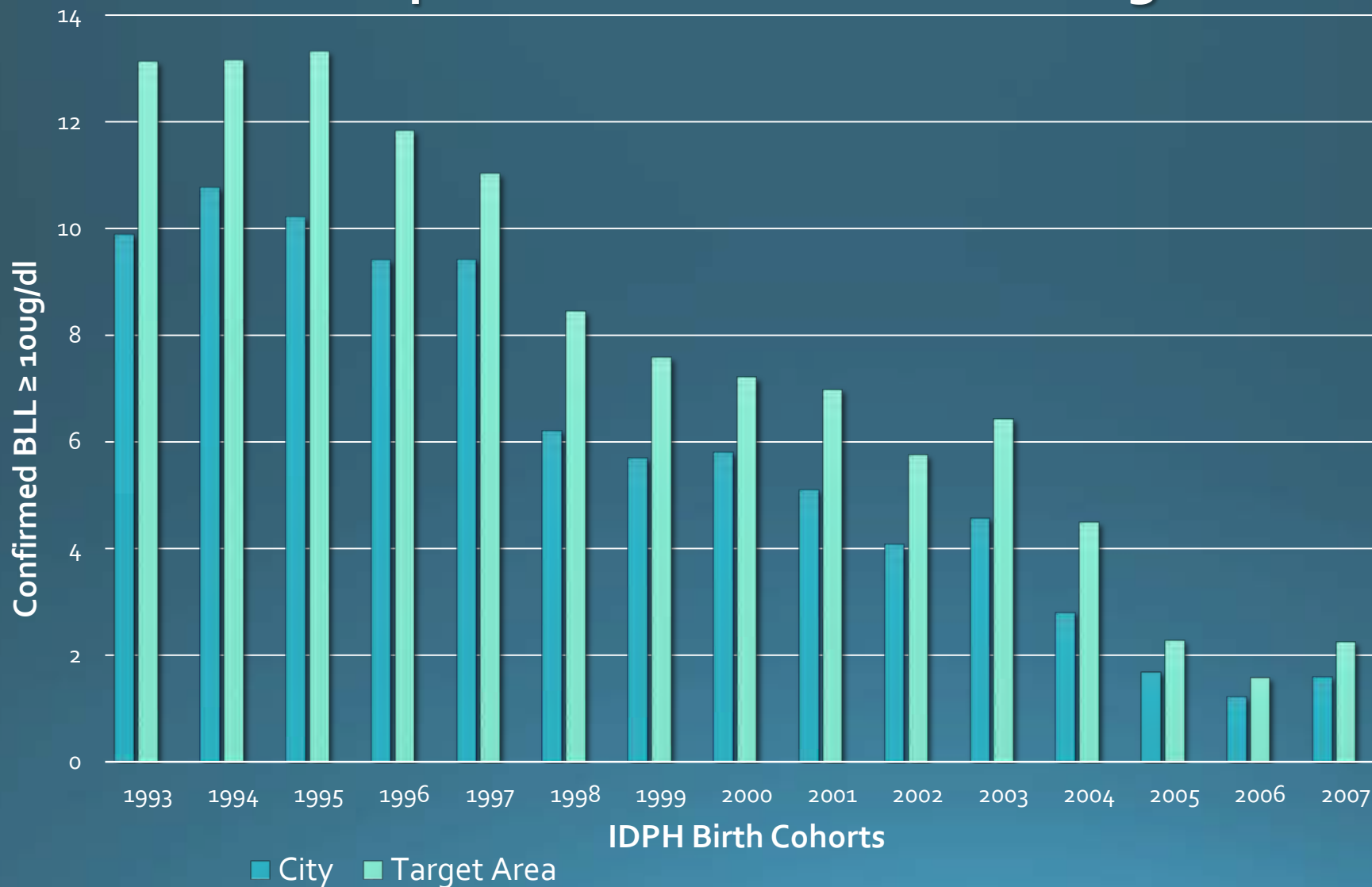
Is your child at risk?

589-1724

City of Dubuque Lead Target Area Cumulative Elevated Lead Levels

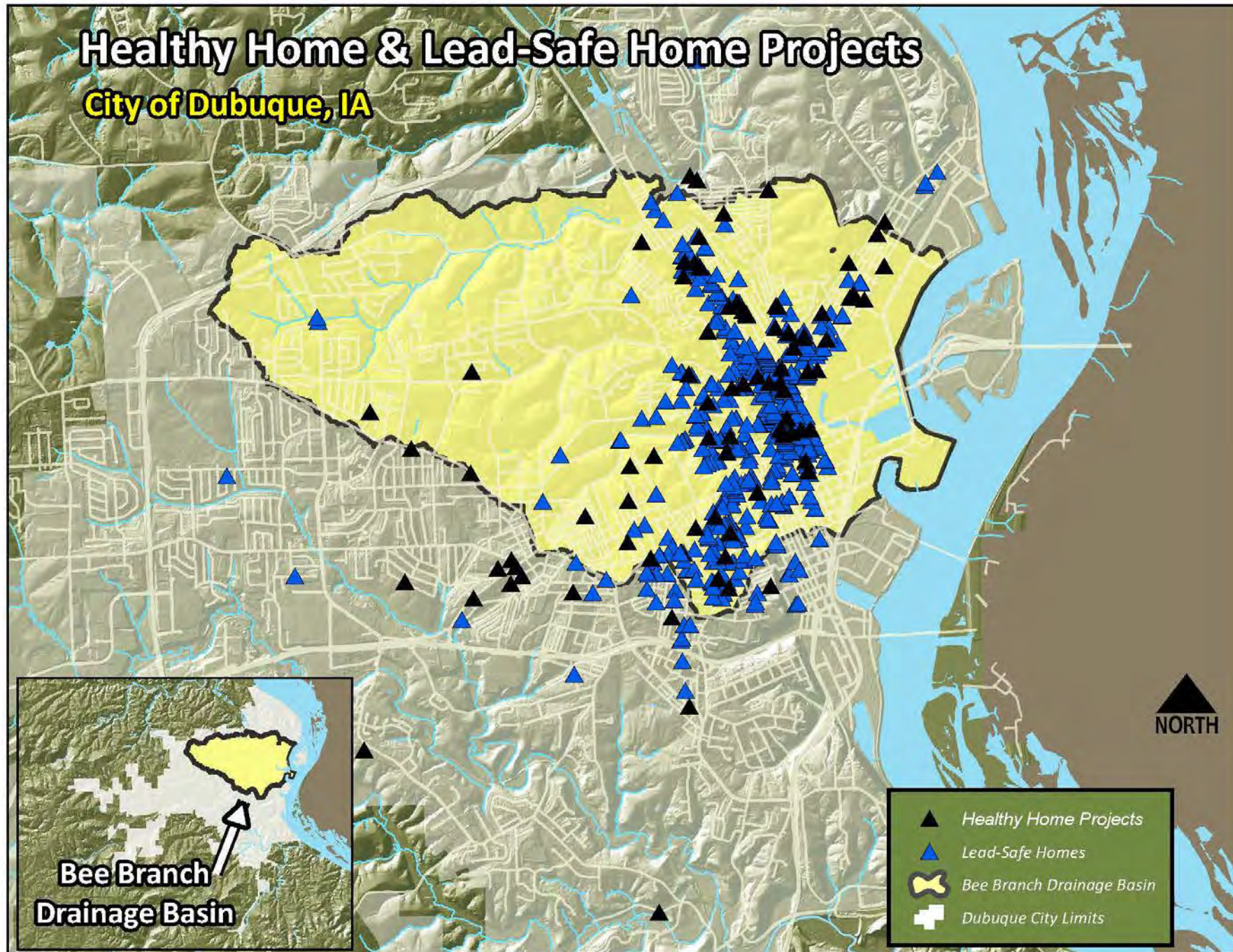


Dubuque Childhood Lead Poisoning

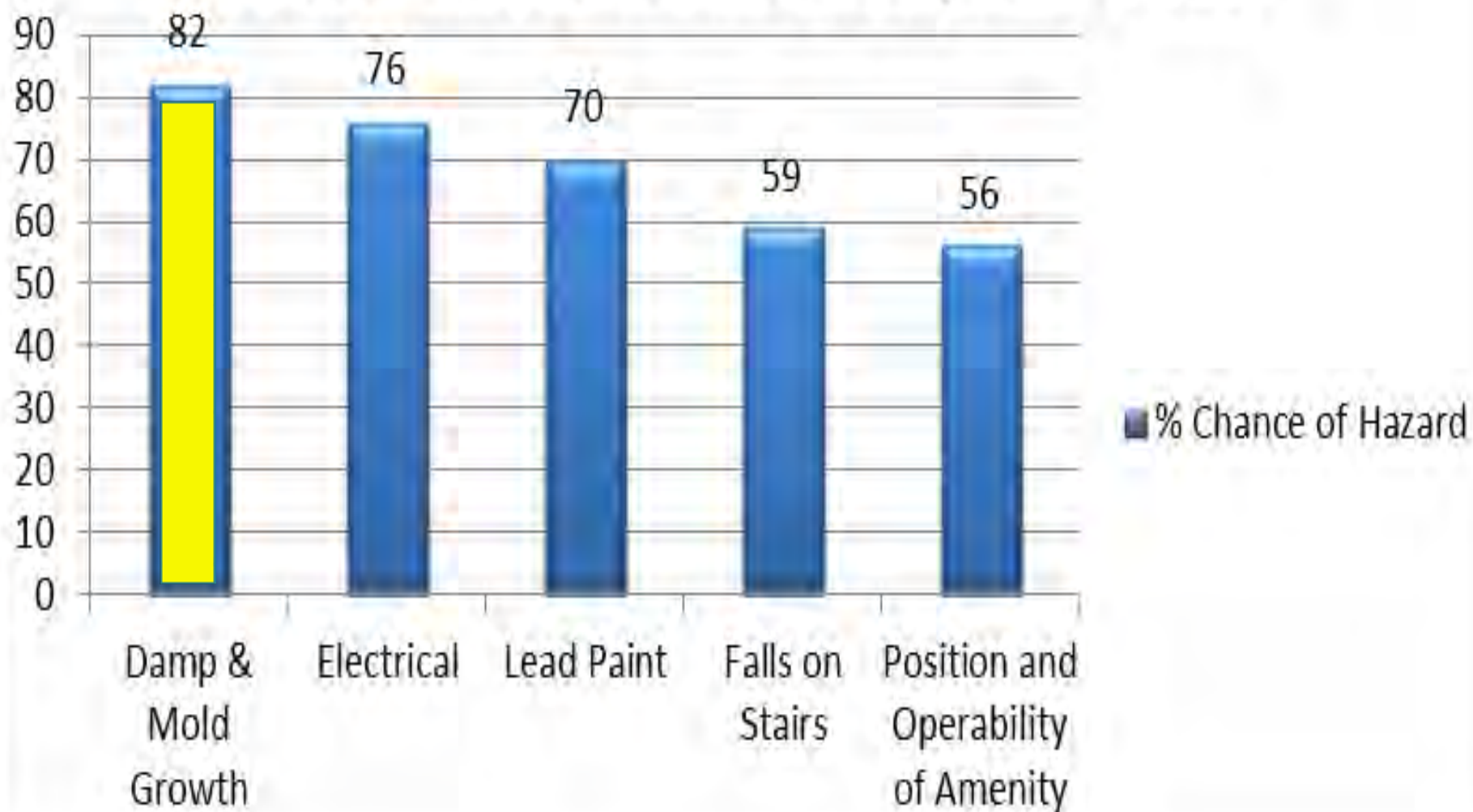


Healthy Home & Lead-Safe Home Projects

City of Dubuque, IA



5 Most Common Hazards Found in Dubuque Homes



HUD Lead/Healthy Homes Leverage

25 units



Before



After

HOME ADVOCATE SERVICES



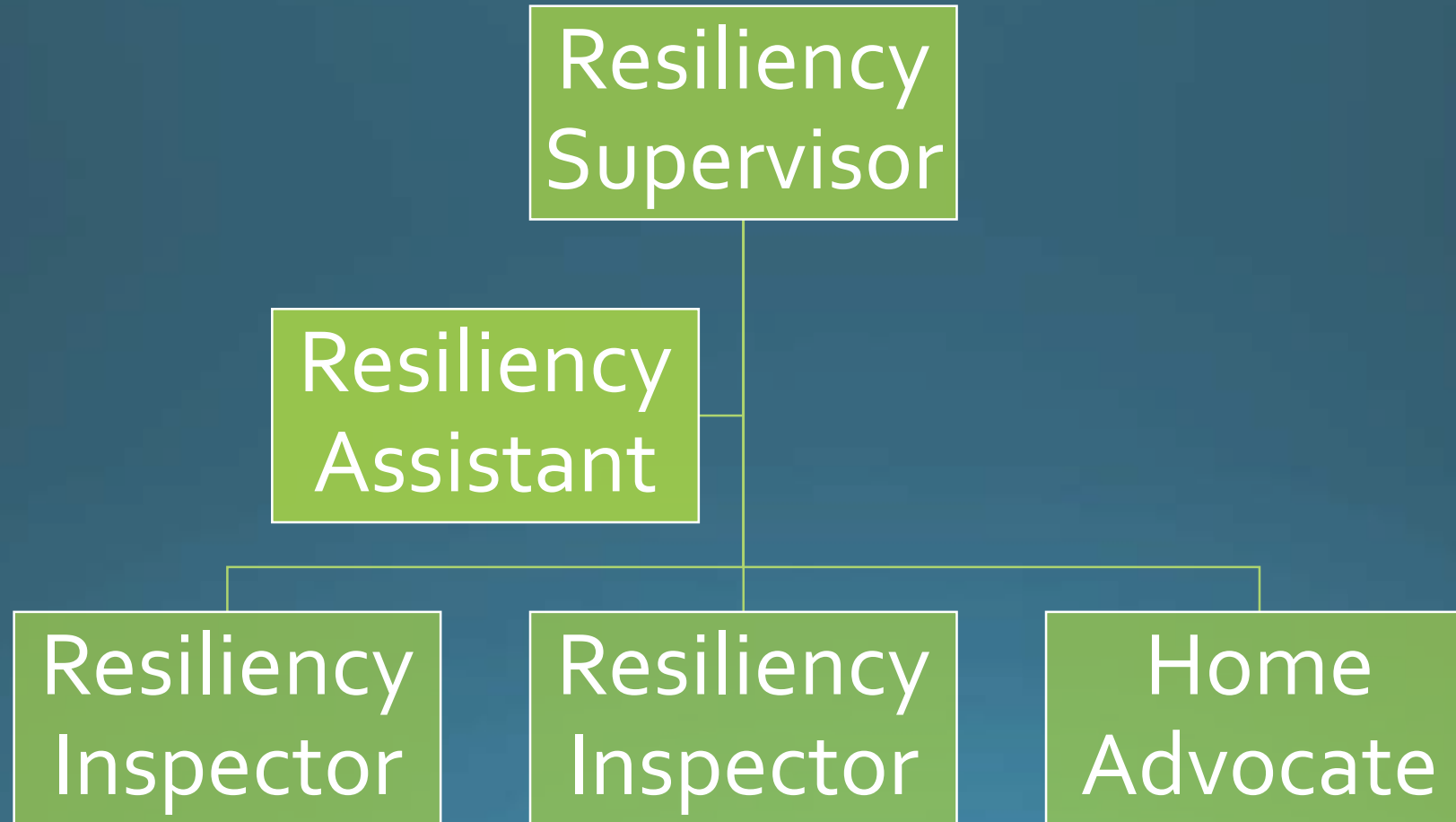
Staffing Framework

Lead Healthy Homes HUD grant

- 4 FTE
- 129 homes
- \$3.2 million over 36 months



Staffing Framework - NDRC Application



NDRC Grant Framework

- **Program Coordinator**
 - 1.0 Full-Time Equivalent Employee
 - Annual Budget (with benefits) \$78,956
 - Total Cost over 5-year Grant Period \$394,780

Funding

100% NDRC Grant \$394,780

Position ends at the conclusion of the NDRC Grant

NDRC Grant Framework

- **Grant Accountant**

- 1.0 Full-Time equivalent Employee
- Annual Budget (with benefits) \$83,157
- Total Cost over 5-year Grant \$415,785

Funding

NDRC Grant	\$395,000
State Revolving Loan	\$ 12,285
State Flood Mitigation Grant	\$ 8,500

Position ends at the conclusion of the HUD Resiliency Grant

NDRC Grant Framework

- **Inspection Services RFP**
 - Request for Proposals
 - Prepare Bid Documents, Bid Opening
 - Coordinate Construction Work
 - Initial, Intermediate and Final Inspections
 - Final Reports

Complete a City Cost Comparison

NDRC Grant Framework

- **Home Advocate RFP**
 - Request for Proposals
 - Assist tenants/owners with community resources, assess and referral
 - Identify barriers to social resilience and address them
 - Advocate for the tenants/owners throughout the process
 - Effective advocate = independent of the City

NDRC Grant Framework

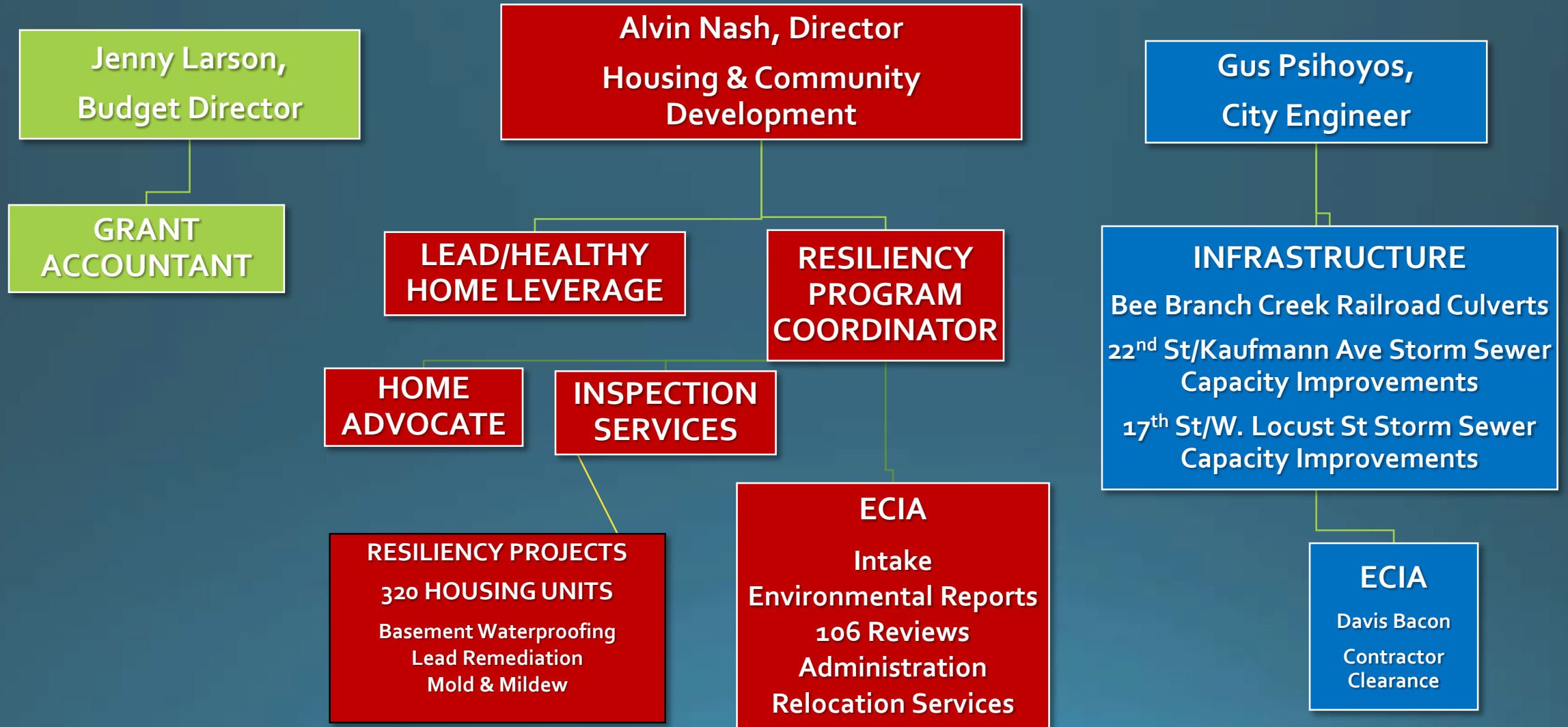
- East Central Intergovernmental Association (ECIA)
 - Council of Government
 - Recognized by IEDA
 - Sole Source Provider

Will Provide Services for:

- Section 106 Reviews
- Duplication of Benefits
- Contractor Clearances
- Intake
- Relocation Services



Organization Chart



NDRC Overall Budget

Activity/Improvement	Amount
Railroad Culverts	\$18,700,000
22 nd Street/Kauffman Storm Sewer	\$15,400,000
17 th Street/West Locust Storm Sewer	\$10,757,500
Bee Branch Healthy Homes	\$ 8,427,665
Lead and Healthy Homes	\$ 400,000
Total Direct Project Cost	\$53,685,165

NDRC Overall Budget

Total HUD Resiliency Grant	\$ 32,157,665
Infrastructure	\$ 23,100,000
Bee Branch Healthy Homes	\$ 8,427,665
Administration	\$ 630,000

Direct Leverage	\$ 22,400,000
State Flood Mitigation Program	\$ 21,600,000
Lead and Healthy Homes Program	\$ 400,000

Supporting Leverage	\$ 37,719,000
State Revolving Loan Green Alleys	\$ 8,178,000
State Revolving Loan Upper Bee Branch	\$ 29,541,000

Resiliency Grant

QUESTIONS/DISCUSSION

