HUD National Disaster Resilience Competition Grant
National Disaster Resiliency Competition
The Iowa Watershed Approach
A vision for a more resilient Iowa

Governor Branstad
Doug Hoelscher
Director of Iowa Office in Washington, DC
Dr. Larry Webber, Flood Center
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

By the Numbers

$1 Billion Dollar Grant Fund
$500 Million HUD-NDRC
$500 Million Rockefeller Foundation

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
New York City - $176,000,000
New Orleans - $141,260,569
Louisiana - $92,629,249
Minot, ND - $74,340,770
New Jersey - $15,000,000
Shelby County, TN - $60,445,163
New York - $35,800,000
Springfield, MA - $17,056,880
Tennessee - $44,502,374
Iowa - $96,887,177
Iowa receives 4th HIGHEST Award!
Virginia – $120,549,000
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
Iowa Watershed Approach Partners
Iowa Grant Award: $96,887,177
Bee Branch Watershed
### History of Bee Branch Flooding

<table>
<thead>
<tr>
<th>Presidential Disaster Declaration: May 21, 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disaster #</strong></td>
</tr>
<tr>
<td><strong>Reason for Declaration</strong></td>
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<tr>
<td><strong>Cause of Damage</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Presidential Disaster Declaration: June 19, 2002</th>
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<tr>
<th>Presidential Disaster Declaration: June 2, 2004</th>
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<td><strong>Disaster #</strong></td>
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<td><strong>Reason for Declaration</strong></td>
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<tr>
<th>Presidential Disaster Declaration: May 27, 2008</th>
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<td><strong>Disaster #</strong></td>
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<td><strong>Reason for Declaration</strong></td>
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<td><strong>Cause of Damage</strong></td>
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<tr>
<th>Presidential Disaster Declaration: August 14, 2010</th>
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<td><strong>Disaster #</strong></td>
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<tr>
<td><strong>Reason for Declaration</strong></td>
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<tr>
<td><strong>Cause of Damage</strong></td>
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<tr>
<th>Presidential Disaster Declaration: August 30, 2011</th>
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<td><strong>Disaster #</strong></td>
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<tr>
<td><strong>Reason for Declaration</strong></td>
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<tr>
<td><strong>Cause of Damage</strong></td>
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</table>
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
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)
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

Existing Bee Branch

Bee Branch Creek Railroad Culverts

Proposed Culverts

$9 million

Micro-Tunneling
Resiliency Grant

Kaufmann Ave Storm Sewer Improvements
(Central to Kane Street)

$11.5 million
West Locust Storm Sewer Improvements
(17th to west)

$2.6 million
Bee Branch Healthy Homes Resiliency
Over 50% of Dubuque’s residents live or work in the Bee Branch Watershed.

85% of properties are historic.

57% over 100 years old.
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
The Maximum Income Guidelines for this Program will be as follows:

<table>
<thead>
<tr>
<th>Family Size</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$37,750</td>
</tr>
<tr>
<td>2</td>
<td>$43,150</td>
</tr>
<tr>
<td>3</td>
<td>$48,550</td>
</tr>
<tr>
<td>4</td>
<td>$53,900</td>
</tr>
<tr>
<td>5</td>
<td>$58,250</td>
</tr>
<tr>
<td>6</td>
<td>$62,550</td>
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</tbody>
</table>
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
Dubuque Childhood Lead Poisoning

- IDPH Birth Cohorts
- Dubuque Childhood Lead Poisoning
- City
- Target Area

Confirmed BLL ≥ 10ug/dl

IDPH Birth Cohorts

- 1993
- 1994
- 1995
- 1996
- 1997
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
Healthy Home & Lead-Safe Home Projects
City of Dubuque, IA
5 Most Common Hazards Found in Dubuque Homes

- Damp & Mold Growth: 82%
- Electrical: 76%
- Lead Paint: 70%
- Falls on Stairs: 59%
- Position and Operability of Amenity: 56%

% Chance of Hazard
HUD Lead/Healthy Homes Leverage
25 units

Before

After
Staffing Framework

Lead Healthy Homes HUD grant

• 4 FTE
• 129 homes
• $3.2 million over 36 months
Staffing Framework - NDRC Application

- Resiliency Supervisor
  - Resiliency Assistant
    - Resiliency Inspector
    - Resiliency Inspector
    - Home Advocate
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

<table>
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<tr>
<th>Source</th>
<th>Amount</th>
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<tbody>
<tr>
<td>NDRC Grant</td>
<td>$395,000</td>
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<tr>
<td>State Revolving Loan</td>
<td>$12,285</td>
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<tr>
<td>State Flood Mitigation Grant</td>
<td>$8,500</td>
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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

- 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
Jenny Larson, Budget Director

GRANT ACCOUNTANT

Alvin Nash, Director
Housing & Community Development

LEAD/HEALTHY HOME LEVERAGE

RESILIENCY PROGRAM COORDINATOR

HOME ADVOCATE

INSPECTION SERVICES

RESILIENCY PROJECTS
320 HOUSING UNITS
Basement Waterproofing
Lead Remediation
Mold & Mildew

ECIA
Intake
Environmental Reports
106 Reviews
Administration
Relocation Services

Gus Psihoyos, City Engineer

INFRstructure
Bee Branch Creek Railroad Culverts
22nd St/Kaufmann Ave Storm Sewer Capacity Improvements
17th St/W. Locust St Storm Sewer Capacity Improvements

ECIA
Davis Bacon Contractor Clearance
<table>
<thead>
<tr>
<th>Activity/Improvement</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Railroad Culverts</td>
<td>$18,700,000</td>
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<tr>
<td>22nd Street/Kauffman Storm Sewer</td>
<td>$15,400,000</td>
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<td>17th Street/West Locust Storm Sewer</td>
<td>$10,757,500</td>
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<td>Bee Branch Healthy Homes</td>
<td>$8,427,665</td>
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<tr>
<td>Lead and Healthy Homes</td>
<td>$400,000</td>
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<tr>
<td><strong>Total Direct Project Cost</strong></td>
<td><strong>$53,685,165</strong></td>
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### NDRC Overall Budget

<table>
<thead>
<tr>
<th>Total HUD Resiliency Grant</th>
<th>$32,157,665</th>
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<tbody>
<tr>
<td>Infrastructure</td>
<td>$23,100,000</td>
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<tr>
<td>Bee Branch Healthy Homes</td>
<td>$8,427,665</td>
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<tr>
<td>Administration</td>
<td>$630,000</td>
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<table>
<thead>
<tr>
<th>Direct Leverage</th>
<th>$22,400,000</th>
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<tbody>
<tr>
<td>State Flood Mitigation Program</td>
<td>$21,600,000</td>
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<tr>
<td>Lead and Healthy Homes Program</td>
<td>$400,000</td>
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<thead>
<tr>
<th>Supporting Leverage</th>
<th>$37,719,000</th>
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<tbody>
<tr>
<td>State Revolving Loan Green Alleys</td>
<td>$8,178,000</td>
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<tr>
<td>State Revolving Loan Upper Bee Branch</td>
<td>$29,541,000</td>
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Resiliency Grant

QUESTIONS/DISCUSSION