



Building Flood Resilience











A dark, flooded street at night. The water is dark and reflects some light. In the background, there is a fence and some trees. The overall scene is very dark and moody.

STOP

**MIDLOTHIAN
FLOODING
NOW**

When my property flooded
I lost my...

FAMILY ROOM, WATER HEATER,
COLLEGE PAPERS, SPARE BEDROOM
FURNITURE, GARAGE SPACE :-









Overbank/creek



Sewer backup

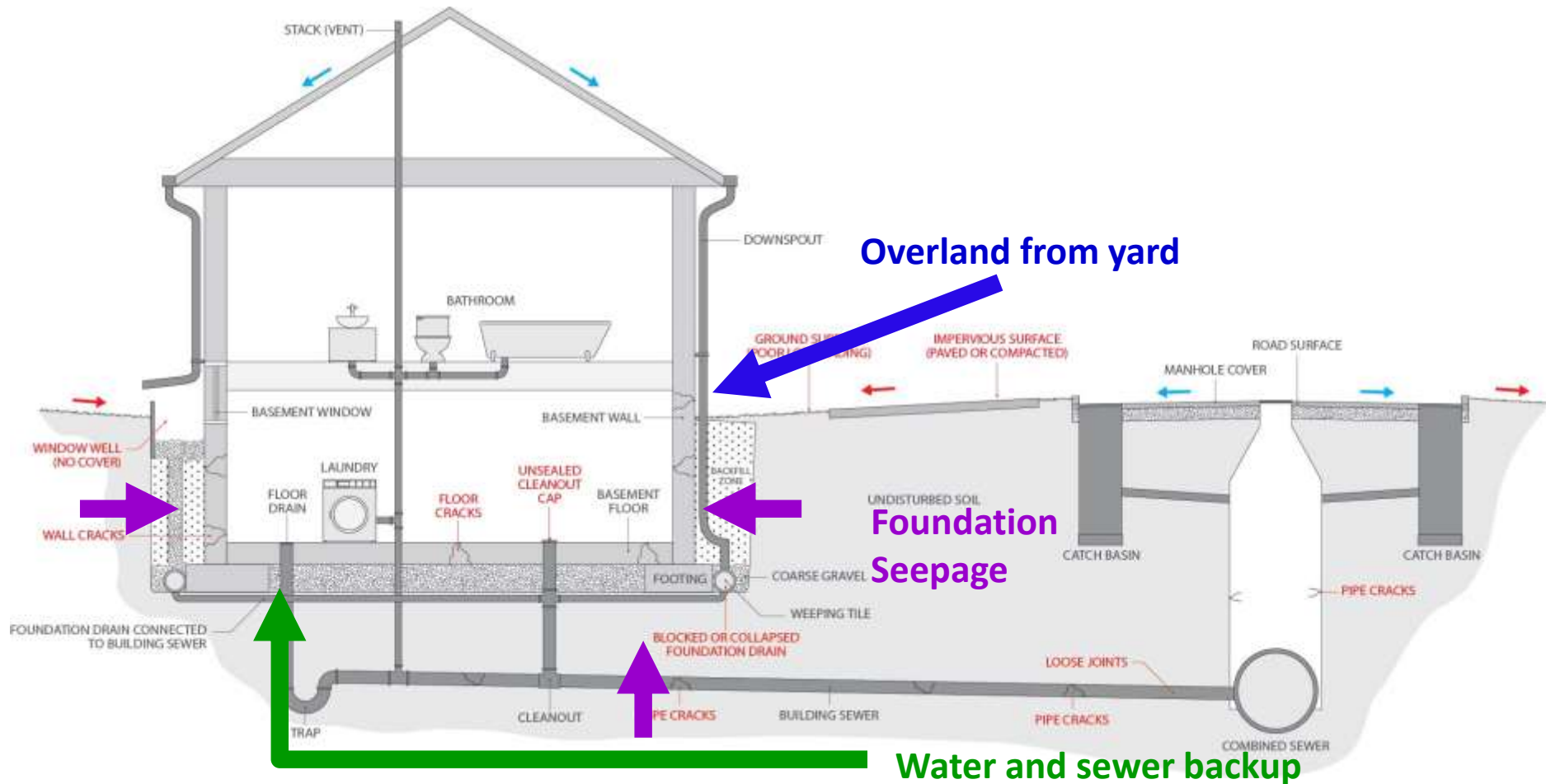


Seepage



Yard and street

TYPES OF FLOODING



OVERVIEW



- National non-profit
- Founded in 1978 + headquartered in Chicago
- Urban sustainability

RainReady services

- Launched 2014
- Complete 'end-to-end' service package
- Customer-focused
- Home, neighbor, community, watershed
- Replicable model, national expansion

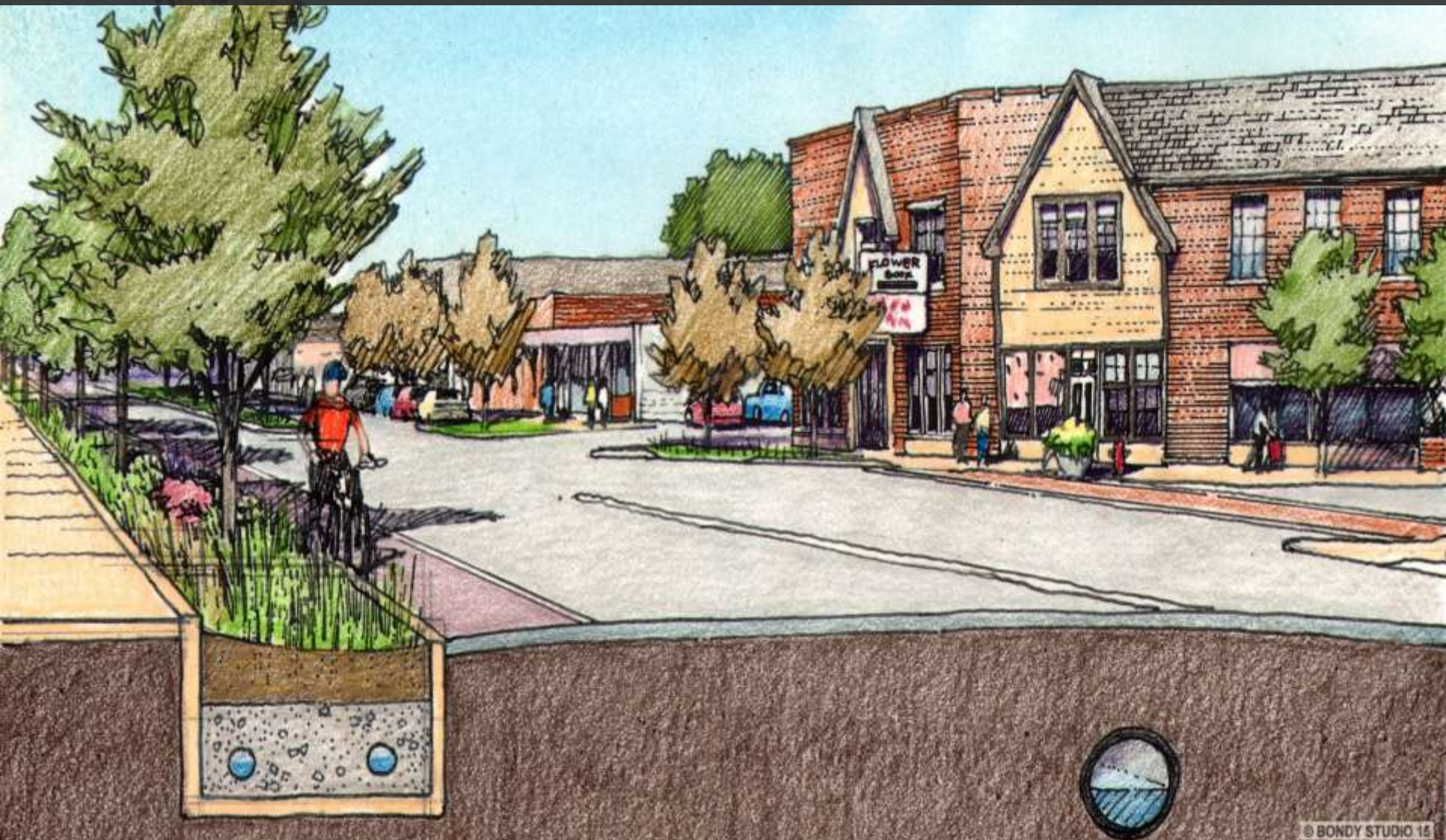
HOME



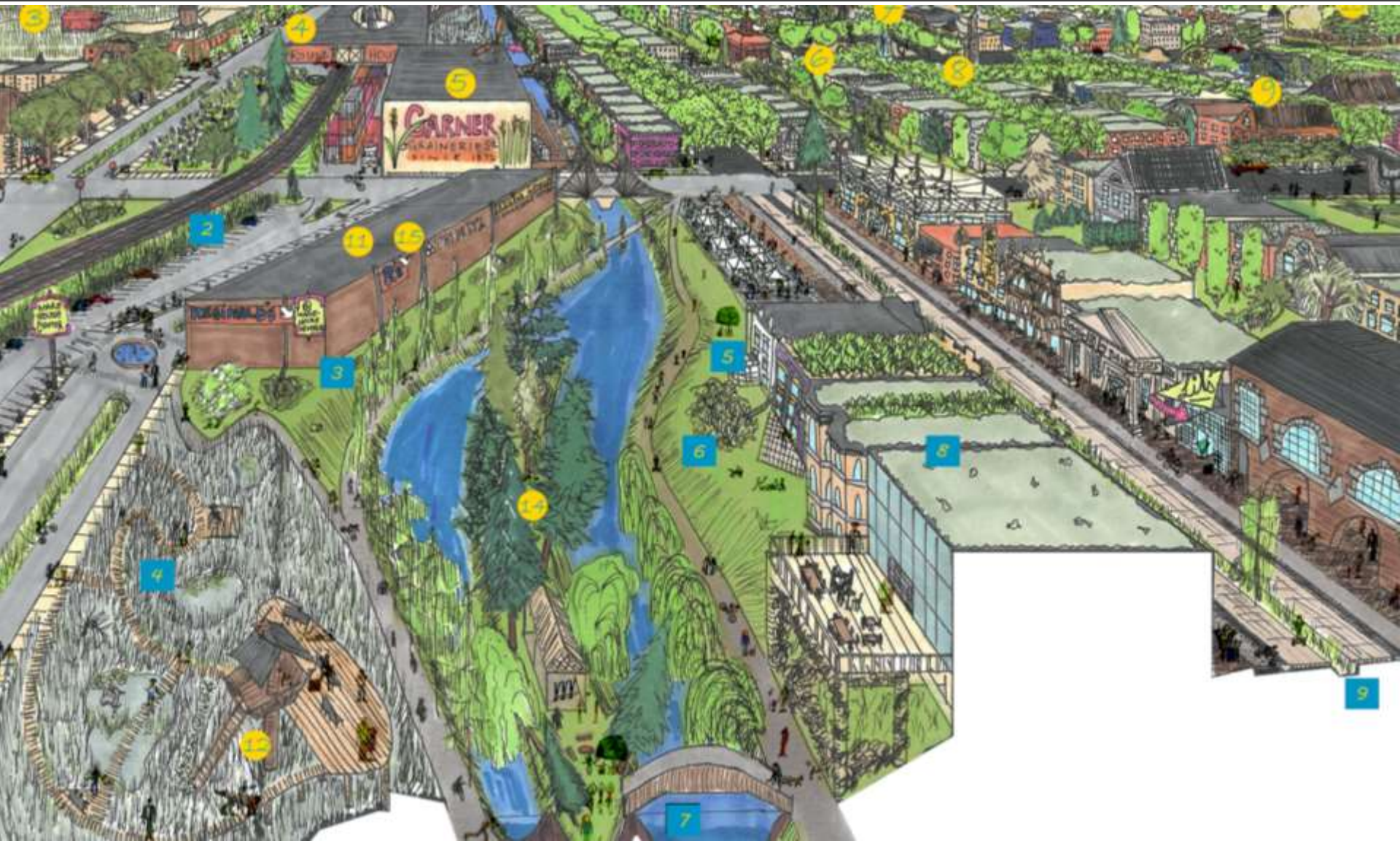
NEIGHBORHOOD



COMMUNITY



WATERSHED



PARTNERS



FEMA

DPD

CHICAGO DEPARTMENT OF
PLANNING & DEVELOPMENT



Chicago Metropolitan
Agency for Planning



The Morton
Arboretum



US Army Corps
of Engineers.



ACTIVE
TRANSPORTATION
ALLIANCE



South Suburban Land Bank and
Development Authority



United States
Environmental Protection
Agency



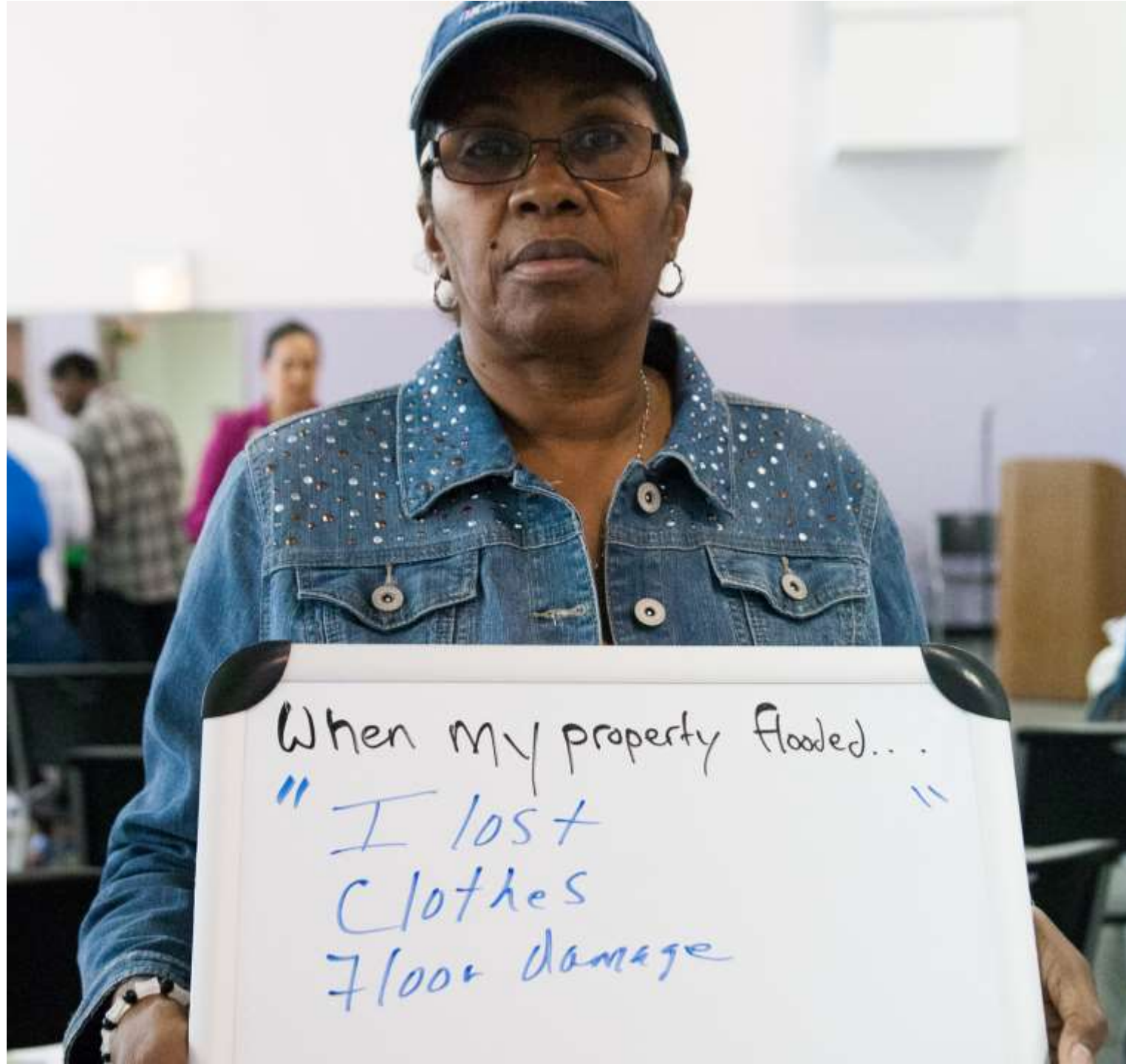




When my property flooded
I lost my...

TELEVISION
COUCH
LOVE SEAT
2-HASSOCKS
6-BOOKSHELVES
DESK + CHAIR
TABLES - SIDE

2 BOOKSHELVES
STORAGE SHELVES
FREEZER
GRATHER CLOCK
TAPE STORAGE RACK
3-BUILT IN CLOTHES CLOSETS



When my property flooded...
" I lost
Clothes
Floor damage "





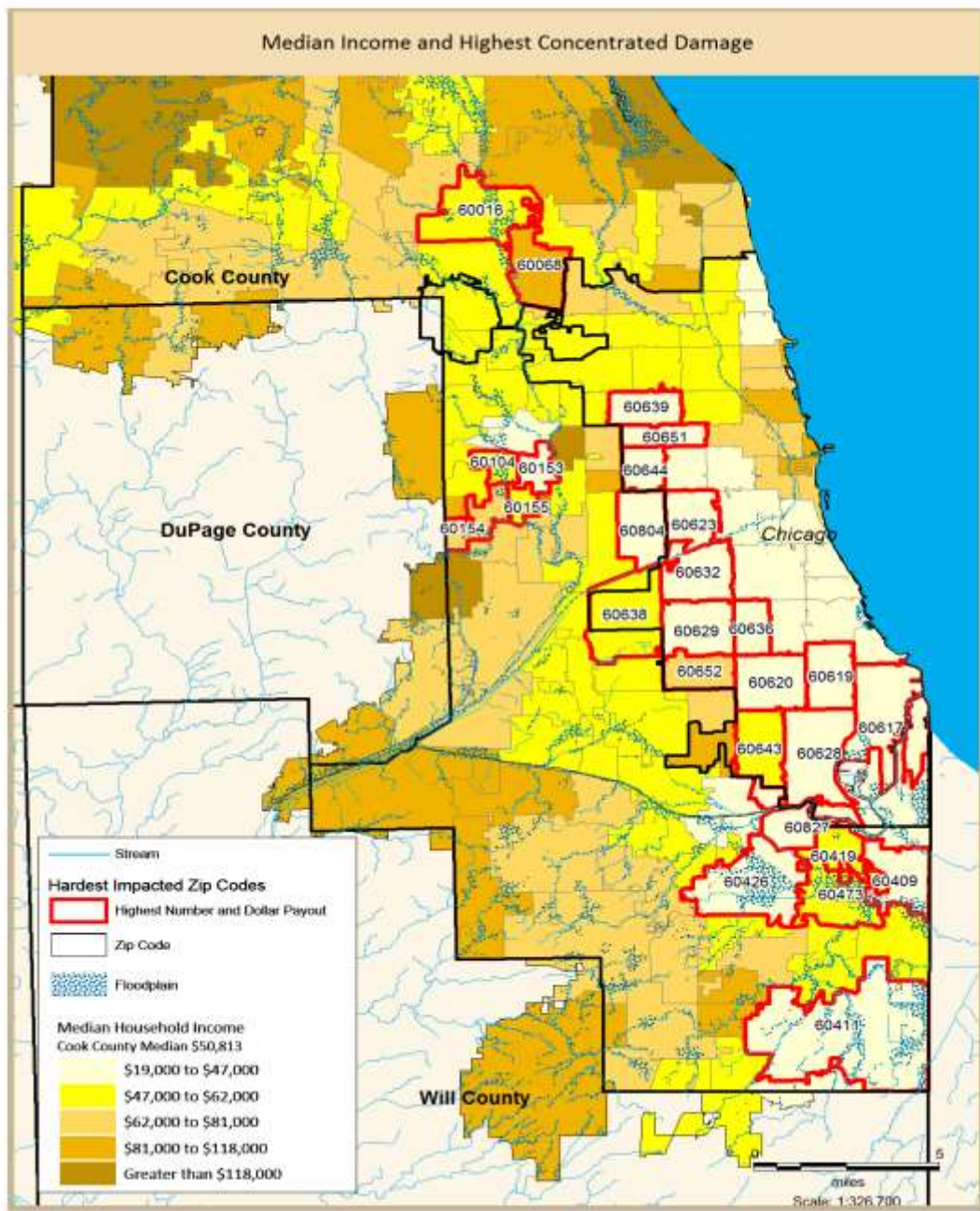
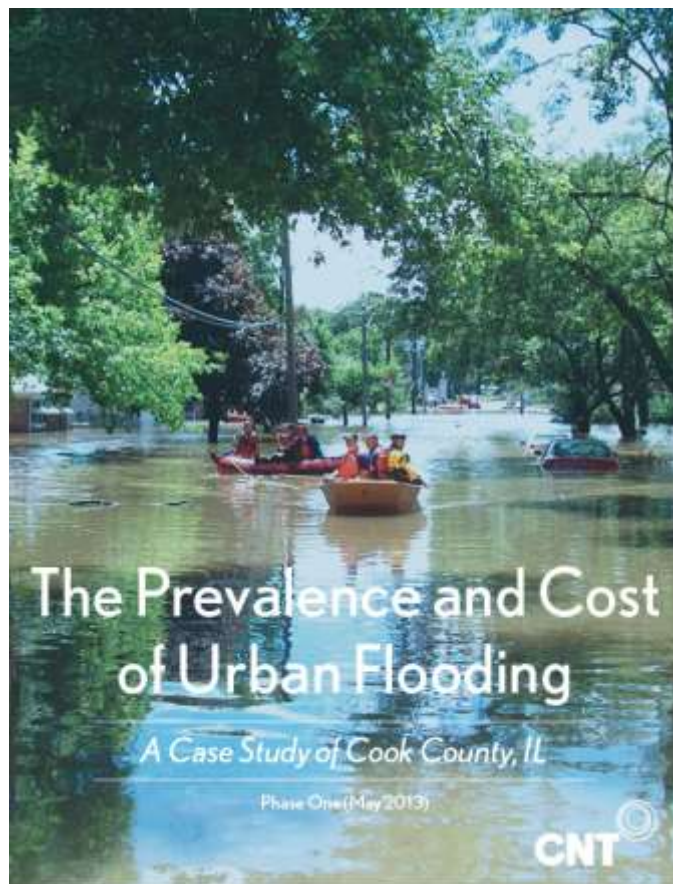


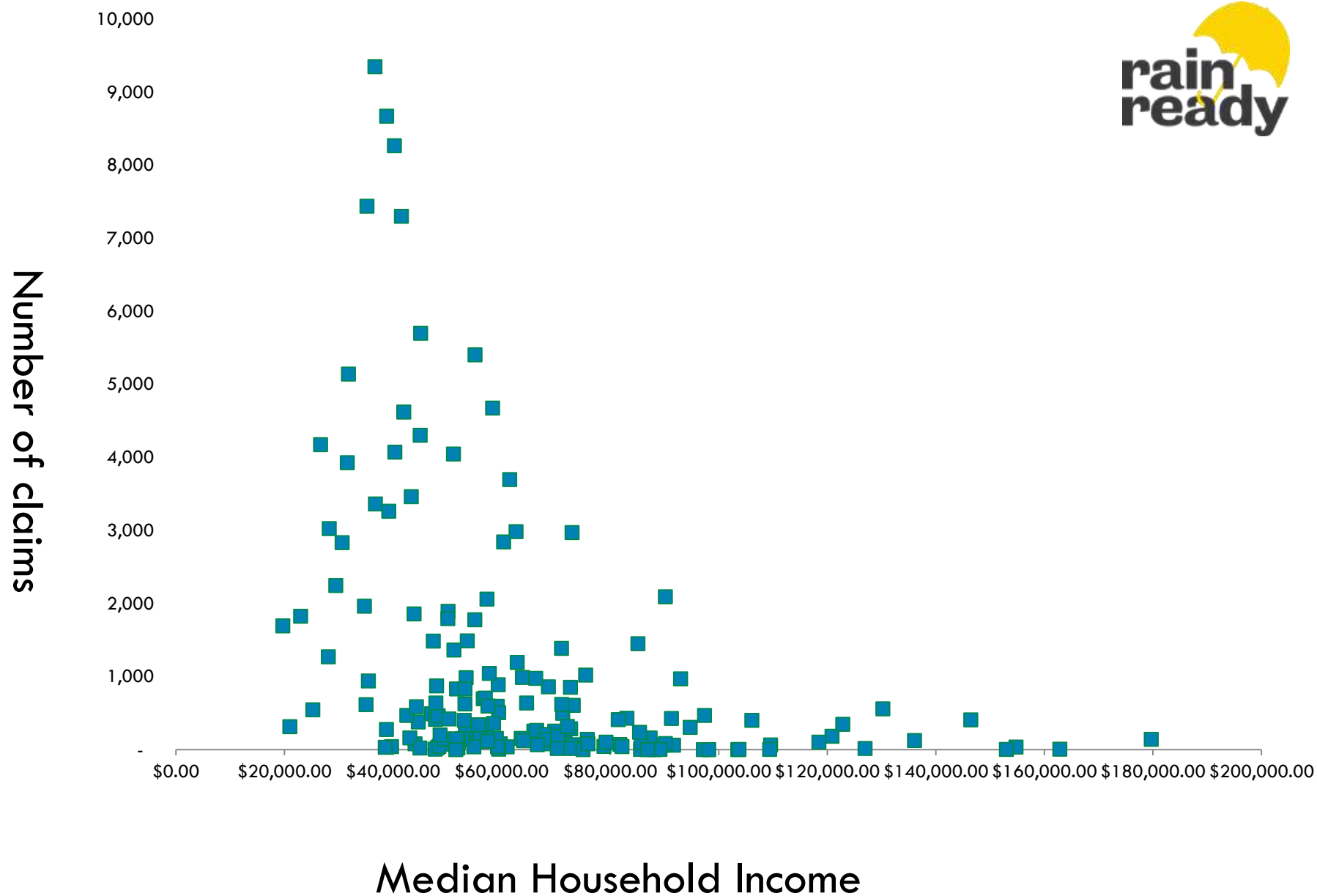














- 115 flood victims surveyed
- 70% flooded 3 or more times in 5 years
- 84% suffered stress
- 41% lost the use of part of their property



“Urban Flooding” defined

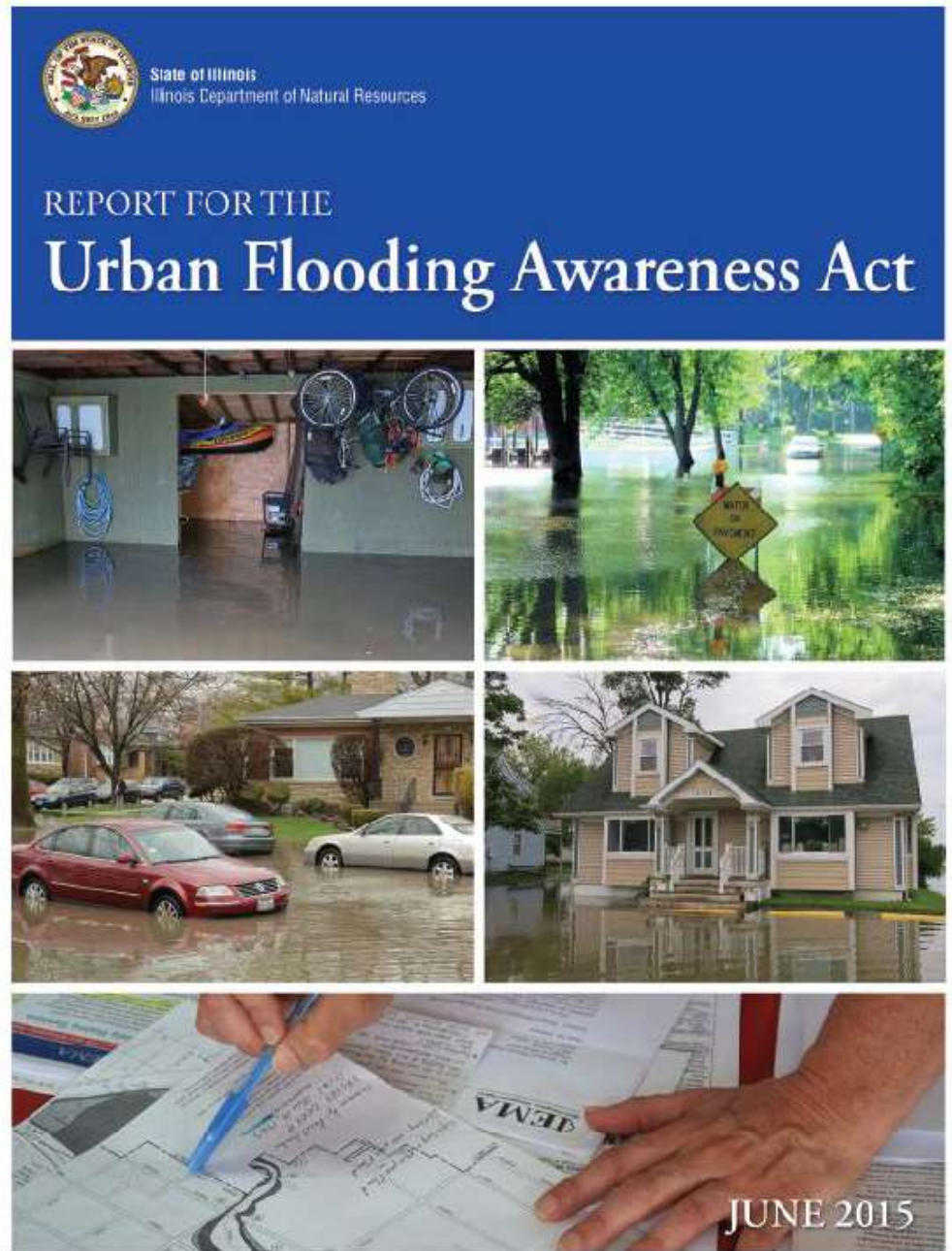
The inundation of property in a built environment, caused by rainfall overwhelming the capacity of drainage systems, such as storm sewers



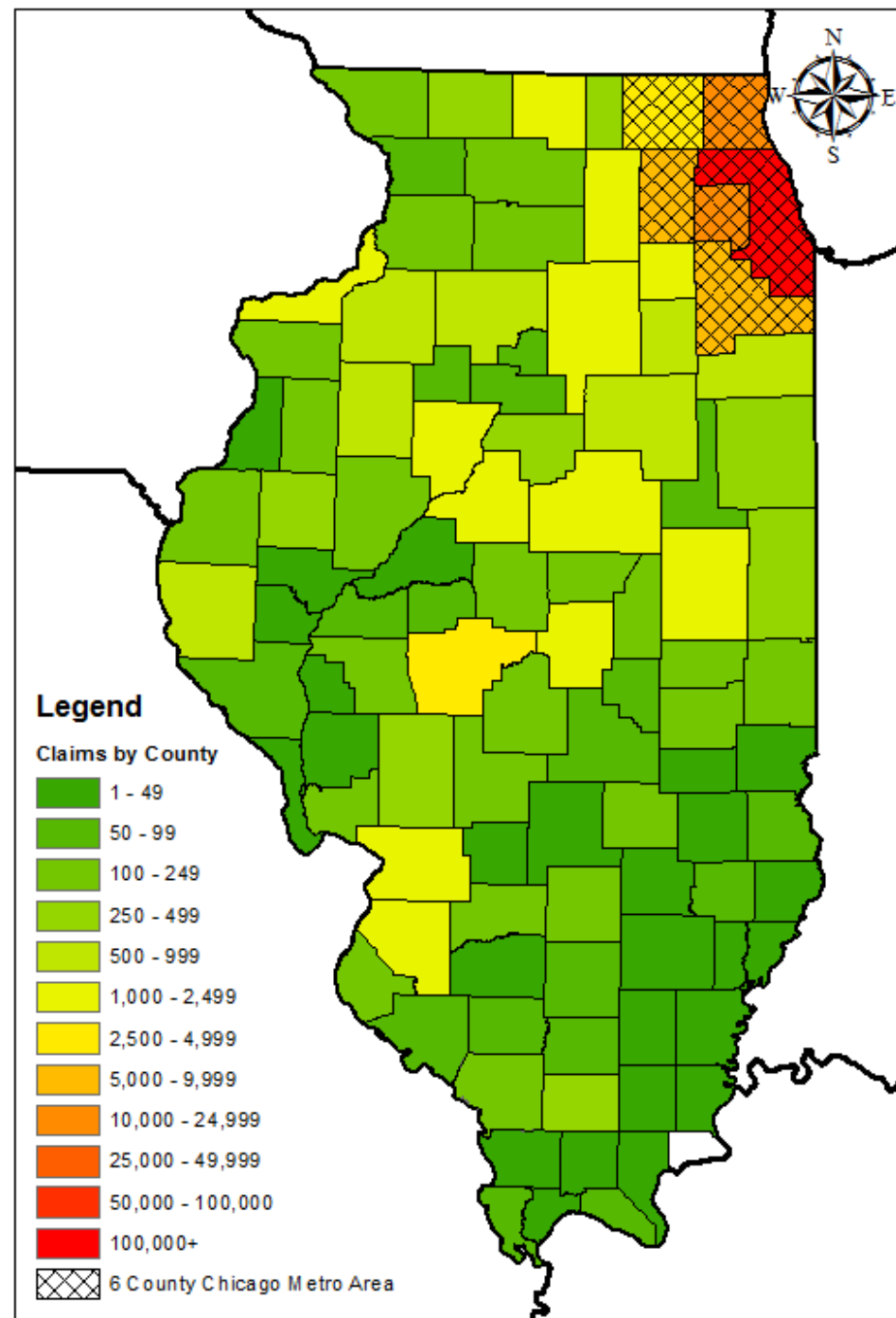
Characterized by

Repetitive and chronic impacts on communities,
regardless of their location within or outside of
formally designated floodplains

Congrats to IDNR!



- Claims filed in 99% of Illinois counties
- Flood damages between 2007-2014, \$2.3 billion
- Half of it private insurance
- Over 90% outside of mapped floodplains
- What's going on?





RECOMMENDED NEXT STEPS

PARTNERS

FUNDING

GET INVOLVED

QUESTIONS?

rain
read
CNT

Dick Durbin

Kathryn Martin

Kathryn Tholin
CEO
Center for Neighborhood Technology

Brian Eber
Vice President of
Public Policy

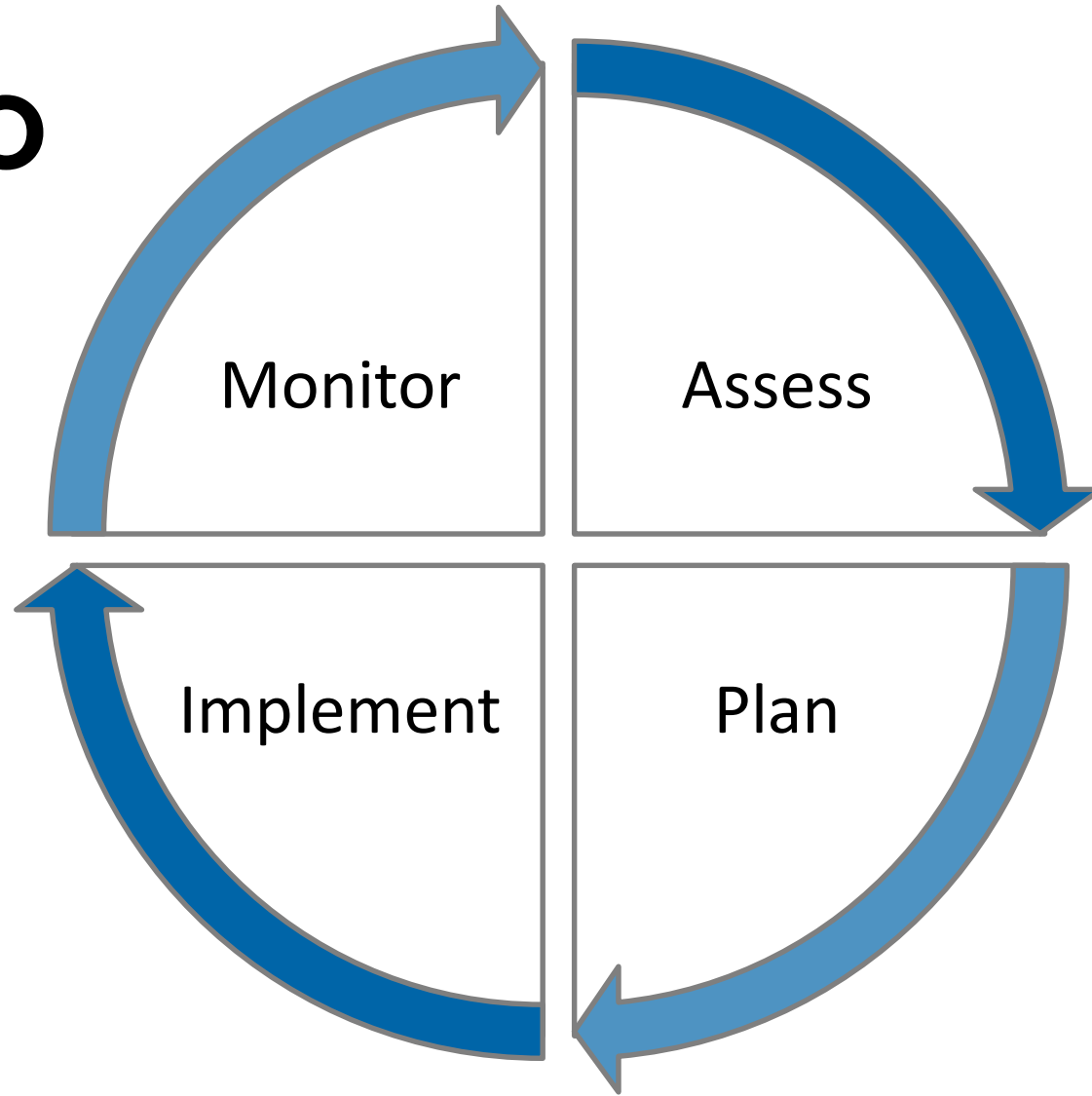
Jon
Metropolitan



Are You RainReady?

rainready.org

WHAT WE DO



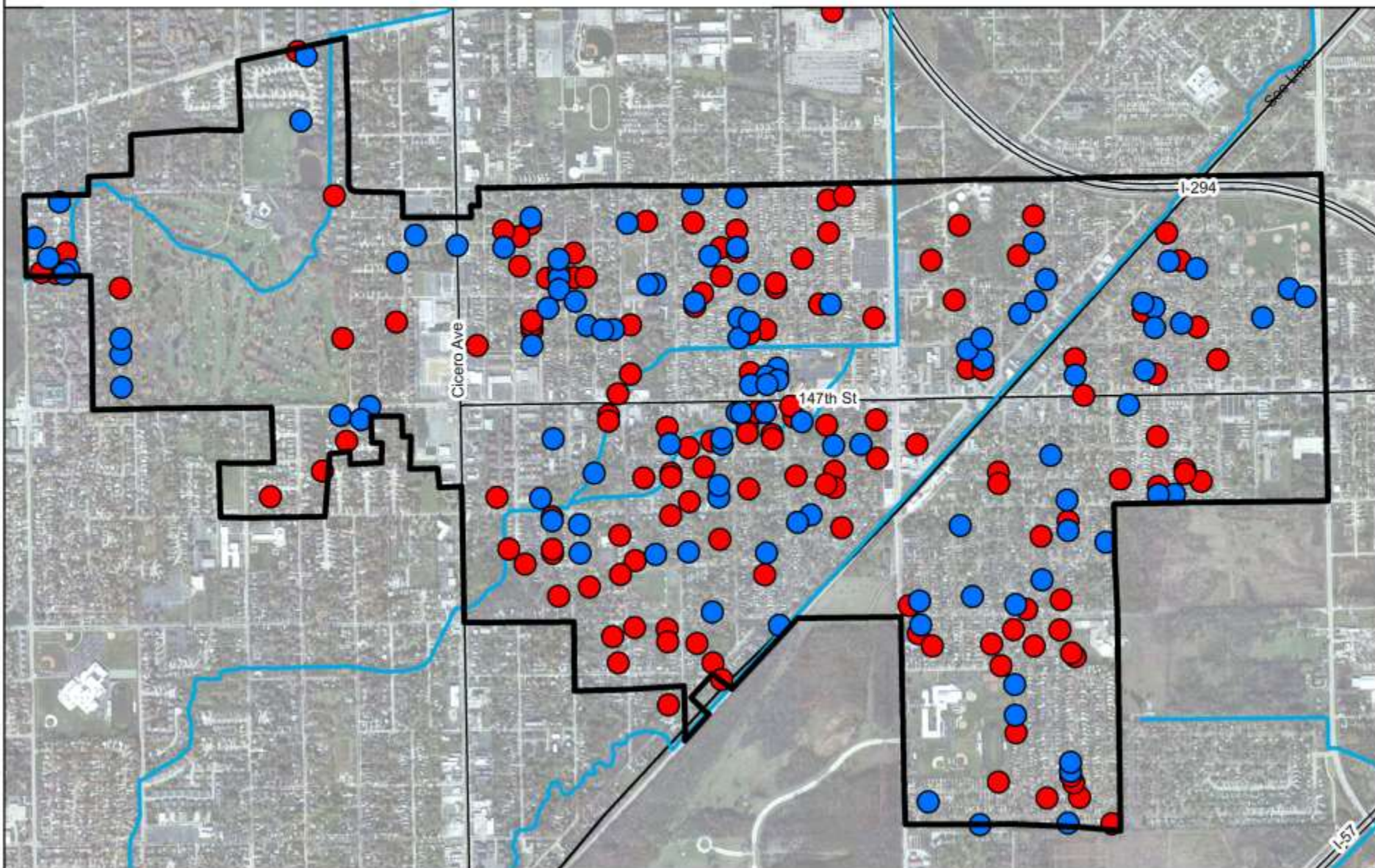
The image is a composite of two photographs. The top photograph shows a dense canopy of green trees. The bottom photograph shows a landscaped area with a curved concrete curb, filled with green grasses, yellow flowers, and pink flowers. In the background, there is a two-story building and more trees. A dark horizontal band with white text is overlaid across the middle of the image.

RAINREADY COMMUNITY



Do you experience flooding?

● Yes - 57% ● No - 43%







3M

STEPS TO A RAIN READY

CHATHAM

CALL YOUR
ALDERMAN

RainReady.org CAMERA (FOR WATER
PROOF)

REQUEST A MAP OF THE SEWER SYSTEM

USE SOCIAL MEDIA

DISCONNECT
DOWN
SPOUTS

MORE COMMUNITY PARTICIPATION
→ (BLOCK CLUBS)

CONNECT WITH OTHER FLOODING PROPERTIES

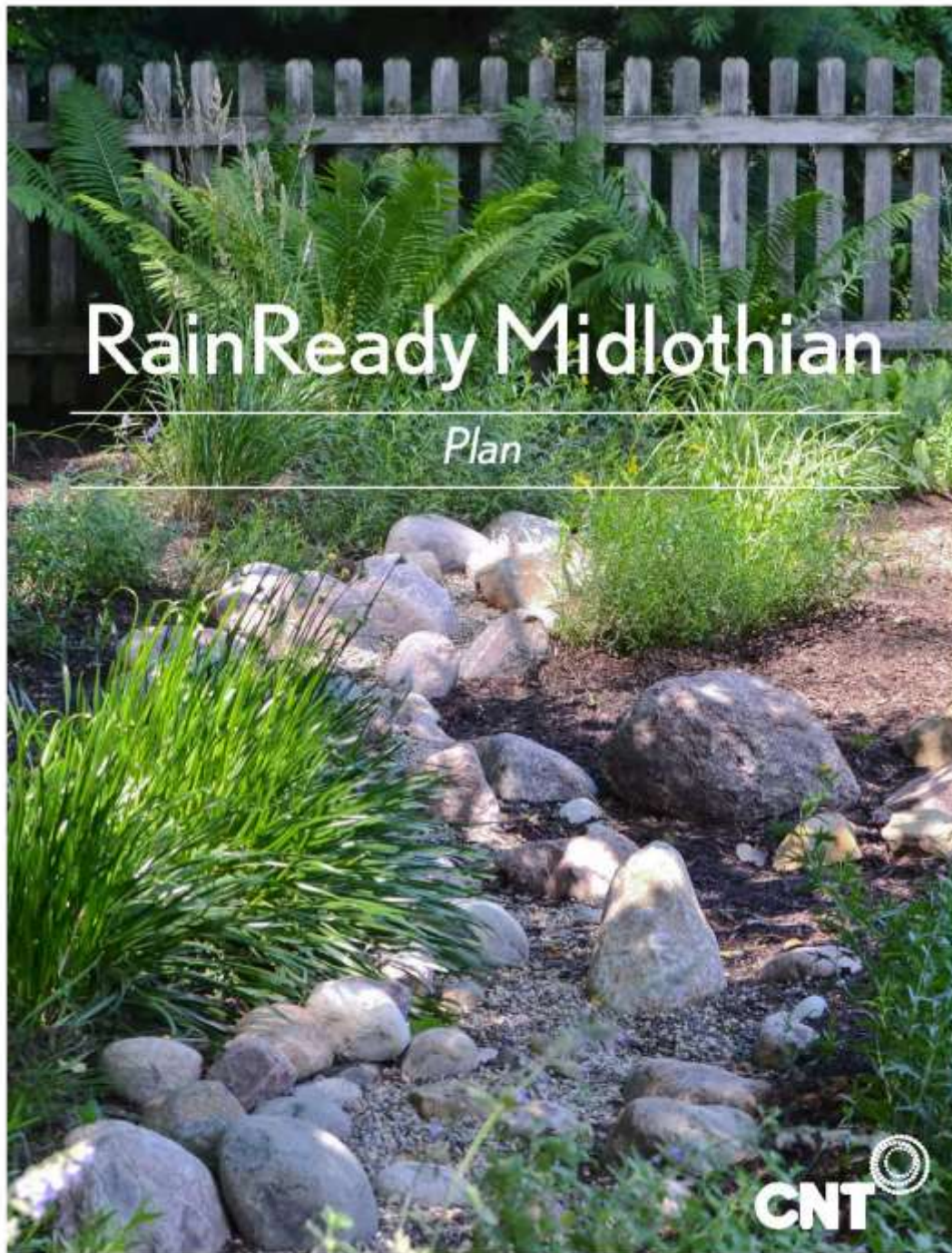
TALK TO LANDLORD/PROPERTY MANAGER ABOUT
DOWNSPOUTS & IMPROVING YARD

SPLASH GUARD OR STONES TO DISTRIBUTE
RUSHING WATER.



RainReady Midlothian

Plan





\$10M!

- Active Transportation Alliance Healthy Hot Spots Program
\$39K, Complete Streets Policy
- Morton Arboretum EAB Replacement - **\$18K**
- NPS Rivers, **Trails**, and Conservation Assistance Program,
Natalie Creek **Multi-Use Trail Plan**
- Illinois Green Infrastructure Grant from the IEPA Bureau of
Water - **\$68K, Village Greenway Project** (Permeable Parking
Lot & Rain Garden)
- Illinois Department of Natural Resources Coastal Waters
Program - **\$20K, Village Greenway Project**
- Openlands-ComEd Green Region Program - **\$10K Village
Greenway Project**
- CMAP LTA, **147th Street Corridor Study** - **\$80K**
- South Suburban Mayors and Managers Association Planning
Technical Assistance, **Natalie Creek Multi-Use Trail Plan**
- Metropolitan Water Reclamation District - **Natalie Creek
Improvements** - **\$8.3m**

MIDLOTHIAN

COMPLETE STREETS OPEN HOUSE



Complete Streets Open House

Sat., June 18

Midlothian Public Library

1 pm - 3 pm



What changes do you want around the Midlothian Metra station to feel safe on your transit commute, walk, or bicycle ride? Come tell us! Your input will shape the pop-up demonstration





RAINREADY HOME





- Detail of Risk
- Home improvements: landscaping, plumbing, building

Wetrofit® Flood Assessment Report

On April 22 and April 24, 2014, our Wetrofit team—Nick Furtek and Ryan Wilson—conducted a flood assessment of your property. Our assessment included:

- Collection of previous flood experiences
- Observation of the building foundation, basement and landscape
- Camera inspection of the building sewer;
- Observation of the adjacent properties and right-of-ways

Based upon your experience with flooding, the cost of flooding in your neighborhood, and our assessment of your property, we recommend you prioritize the following home improvements:



1. Divert stormwater from entering property at alley
2. Capture rainwater in landscape areas
3. Drain flood water from sidewalk and under porch to catchbasin

Understanding Your Flood Risk

Homes in the Chicago region are commonly affected by three types of flooding:

- Sewage backup that comes up from floor drains, sinks, tubs, and toilets in your basement;
- Water seepage through floors or walls, or flows through cracks in your building foundation;
- Overland flooding of water that pools in your yard and against your foundation, or flows into your home through window wells and doors.

While considering the recommended improvements and maintenance, it is important to do so in the

| | |
|----------------|---------------------|
| Address | 911 S Claremont Ave |
| City, ST | Chicago, IL |
| Building owner | Margaret O'Dell |

| IMPROVEMENTS | | | Total Estimated Cost: \$5,000-\$7,300 |
|---|---|---|---------------------------------------|
| Projects | Measure | Detail | |
| 1 Divert stormwater from entering property at alley. | <ul style="list-style-type: none"> • Install curb (~3-4") along extent of eastern property line at edge of parking pad. | <p>Anticipated Maintenance: N/A</p> <p>Cost Range Estimate: \$600-\$1,300</p> <p>Optional: Reconstruction of existing stair.</p> <p>Notes: May require coordination with neighbors to ensure proper diversion.</p> | |
| 2 Capture rainwater in landscape areas | <ul style="list-style-type: none"> • Install rain garden with below-grade storage along eastern edge of patio. • Install permeable paving in place of existing patio area to drain to rain garden. | <p>Anticipated Maintenance: Seasonal weeding and care of rain garden. Removal of debris for permeable surface.</p> <p>Cost Range Estimate: \$3,600-\$4,800</p> | |
| 3 Drain flood water s from sidewalk and under porch to catchbasin | <ul style="list-style-type: none"> • Clean and repair floor drain • Clean silt and debris from existing catch basin. • Install area drain from sidewalk adjacent to south façade to catchbasin | <p>Anticipated Maintenance: Removal of debris contributing to area and floor drains.</p> <p>Cost Range Estimate: \$800-\$1,200</p> | |
| MAINTENANCE | | | Total Estimated Cost: \$300-\$700 |
| Projects | Measure | Detail | |
| 1 Regular Building Sewer Inspection and Cleaning | <ul style="list-style-type: none"> • Televise building sewer • Rodding of building Sewer | <p>Anticipated Maintenance: Annual televising and cleaning, as recommended by reviewing contractor.</p> <p>Cost Range Estimate: \$200-\$500/year</p> <p>Optional: Chemical treatment of drain to prevent root growth.</p> | |
| 2 Regular Gutter Cleaning | <ul style="list-style-type: none"> • Removal of leaf and organic debris from gutter. | <p>Anticipated Maintenance: Annual televising and cleaning, as recommended by reviewing contractor.</p> <p>Cost Range Estimate: \$100-200/year</p> | |

- Bid Solicitation/
Construction Oversight
- Pool of Qualified
Contractors
- Landscaping, Plumbing,
Building improvements









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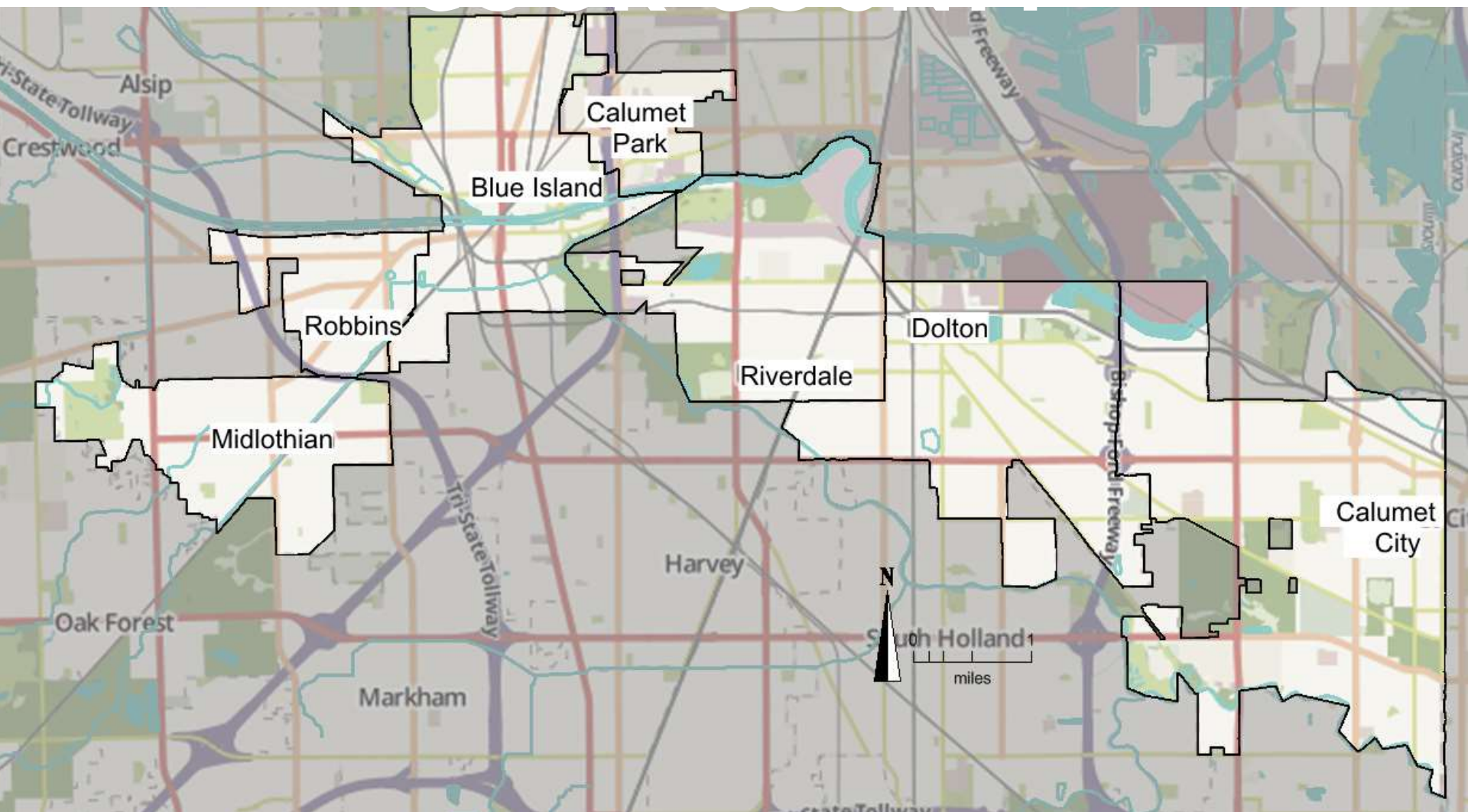
FAMILY ROOM, WATER HEATER,
COLLEGE PAPERS, SPARE BEDROOM
FURNITURE, GARAGE SPACE ☹

RainReady Home: \$4,850

Cumulative flood
damage: \$17,000

Upgrades:

- Backwater valve
- Disconnected downspout
- Re-routed gutters
- Rain garden





rain
ready

Are you RainReady?
rainready.org

rain
ready

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rainready.org

Floodlothian

YOU A MERRY CHRISTMAS & FLOOD FREE NEW YEAR!

Center for Neighborhood Technology
Rehabilitation Water Refinement District
State Representative Will Davis

Floodlothian

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Thank You!