

Presenter



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City of Minneapolis Health Department



Presenter



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City of Minneapolis



CITY OF
MINNEAPOLIS

Climate Change Vulnerability Assessment & Community Engagement

Minneapolis Health Department: Pam Blixt
Minneapolis Sustainability Division: Kelly Muellman

Introduction and Background

- Project Goals and Objectives
- Climate vulnerability assessment
- Working with community partners
- Lessons learned/best practices in engaging community on climate resilience/preparedness



What is the project?

October 2015:
City of Minneapolis
received grant from Public
Health Institute Center for
Climate Change and
Health



Project Goals

1. Assess
2. Educate
3. Listen and learn
4. Recommend



What did Phase I accomplish?

1

Social
vulnerability

- Mapped populations that are inherently more vulnerable
- Mapped cumulative social vulnerability

2

Landscape
vulnerability to
heat

- Mapped urban heat island effect
- Identified opportunity areas: high impervious surface and low vegetation

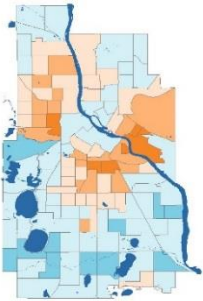
3

Landscape
vulnerability to
flooding

- Mapped factors that contribute to flooding
- Mapped low-elevation areas prone to flooding

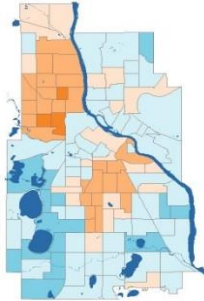
The overall social vulnerability map combines all nine factors together.

Poverty



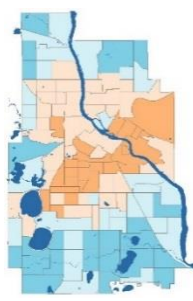
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People of Color



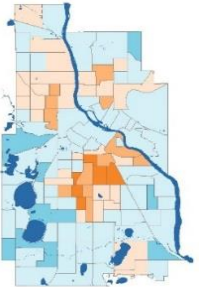
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Renters



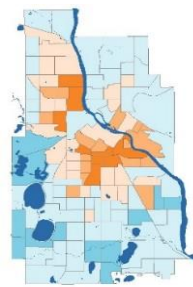
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Limited English



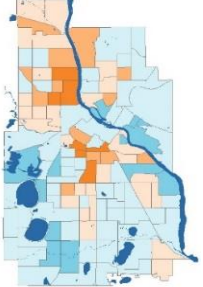
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No vehicle

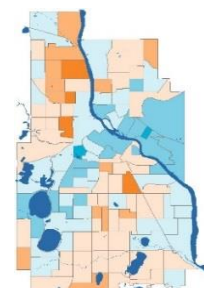


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Disability

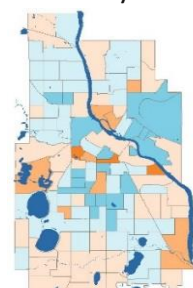


Under 5

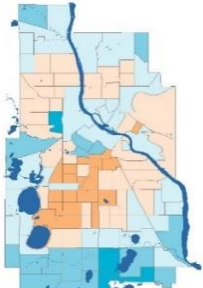


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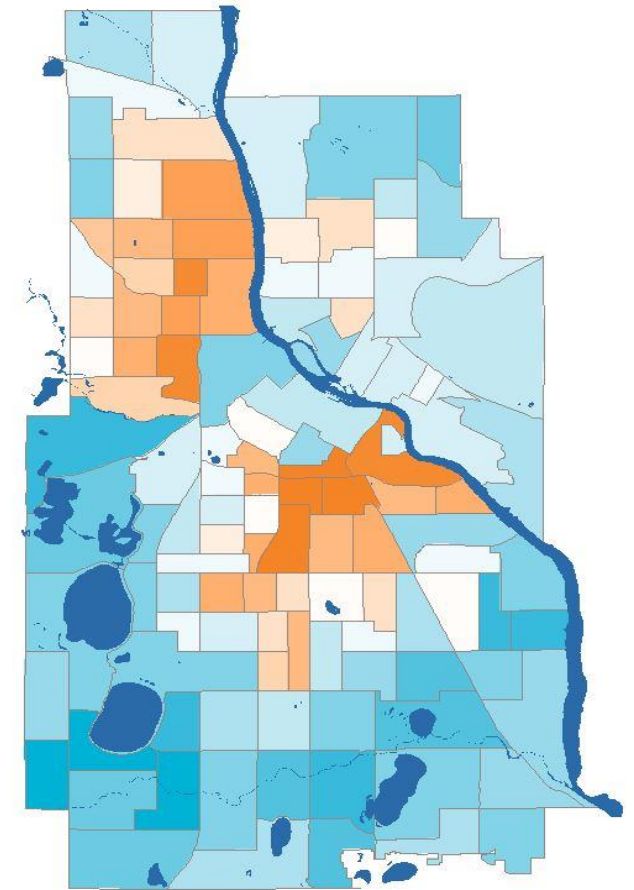
Elderly



No central AC



Overall social vulnerability scores



Lowest vulnerability










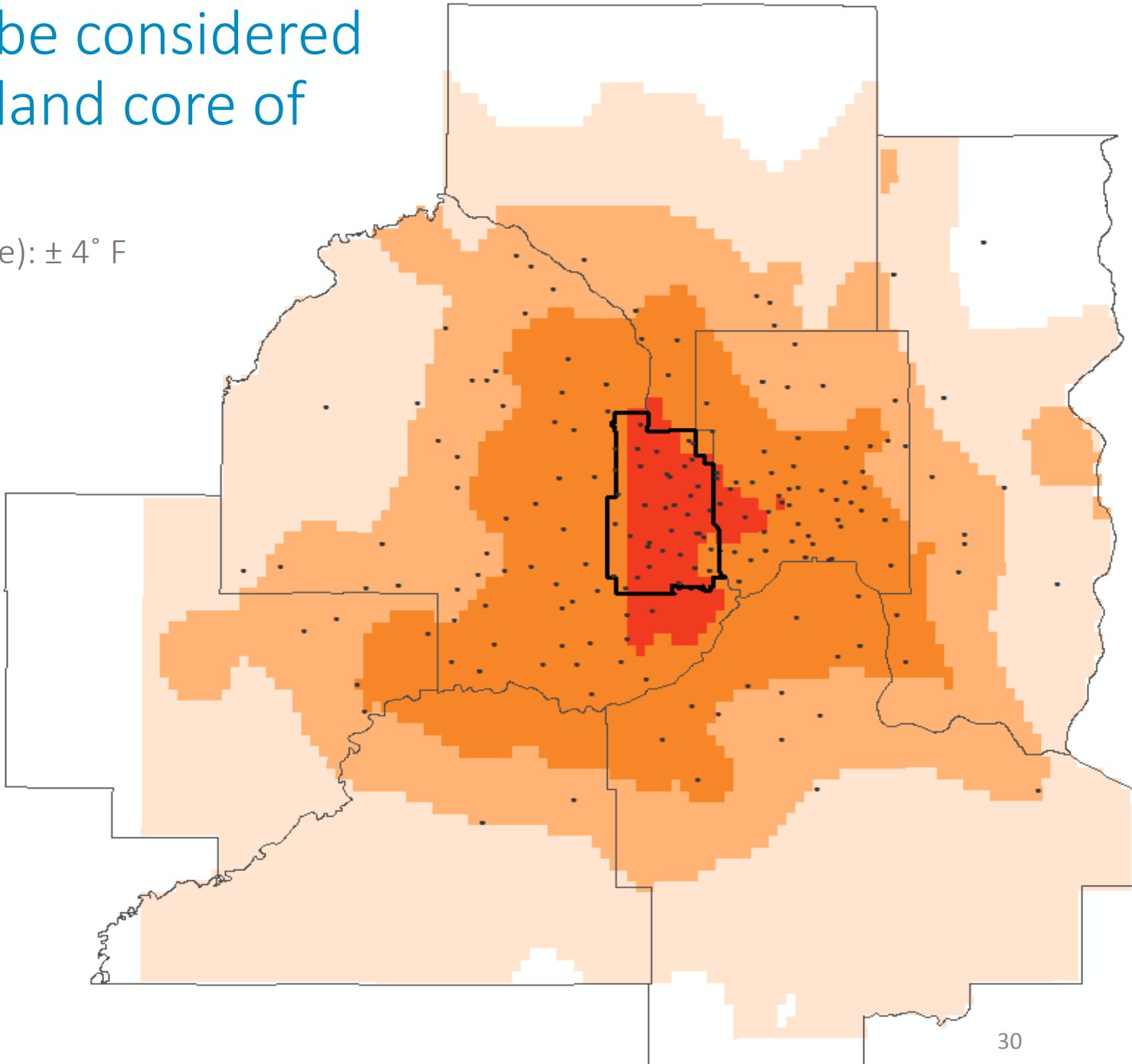
Highest vulnerability

Minneapolis can be considered the urban heat island core of our region.

June/July/August 2012 (average): $\pm 4^\circ$ F

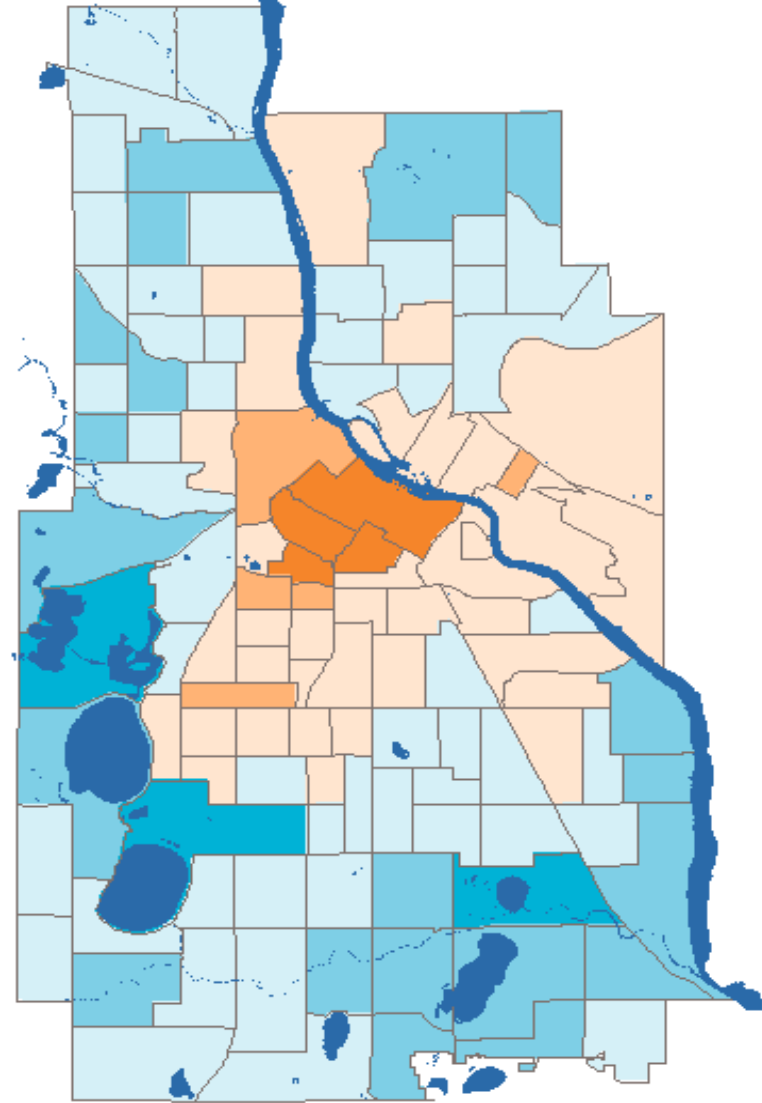
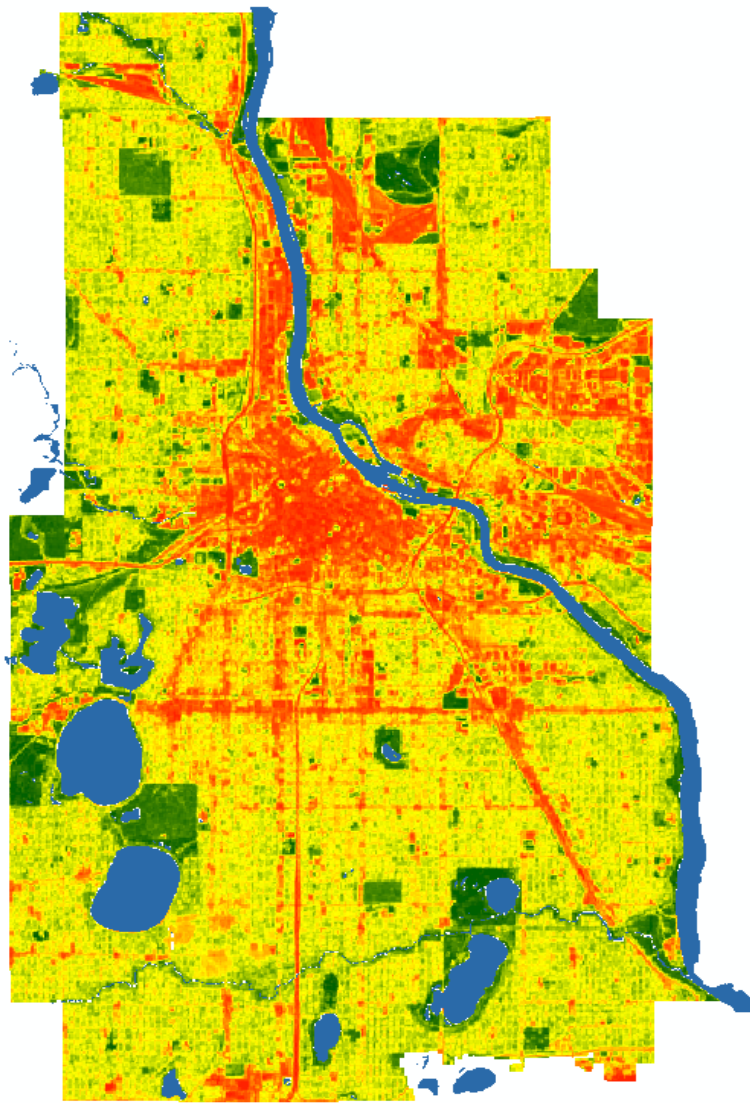
Urban heat island effect: June/July/August 2012 (degrees F)

-  3 - 4 degree UHI
-  2 - 3 degree UHI
-  1 - 2 degree UHI
-  0 - 1 degree UHI
-  Minneapolis boundaries
-  County boundaries
-  Temperature monitoring sites




Data source: Smoliak et al. 2015

Locations with **low vegetation** and **high impervious surface** are key places to focus urban heat island adaptation efforts.



Lowest landscape vulnerability to heat  Highest landscape vulnerability to heat

Lowest landscape vulnerability to heat  Highest landscape vulnerability to heat

Community Partner Training

- Community partner introductions – self & community
- Climate change overview
- Health effects of climate change
- Lunch presentation – community partner from Saint Paul
- Emergency response to 2011 North Minneapolis tornado
- Planning community climate dialogues



Community Partners

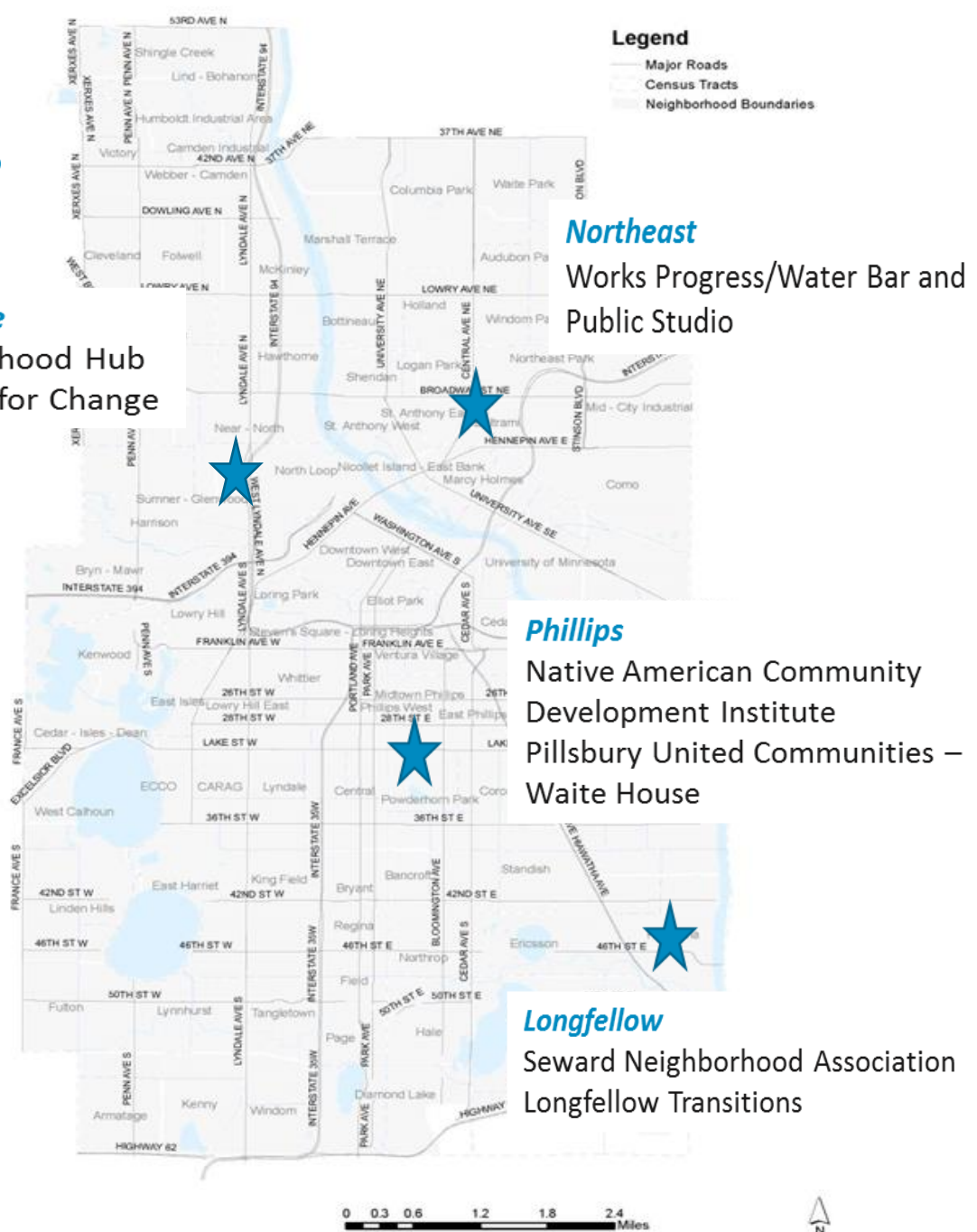
- Model: contract with community partners in each of the four communities

Northside
 Neighborhood Hub
 Appetite for Change

Northeast
 Works Progress/Water Bar and
 Public Studio

Phillips
 Native American Community
 Development Institute
 Pillsbury United Communities –
 Waite House

Longfellow
 Seward Neighborhood Association
 Longfellow Transitions



Phillips Workshop – November 2016

PHILLIPS NEIGHBORHOOD
GET READY FOR EXTREME WEATHER
WORKSHOP



SATURDAY, NOVEMBER 5, 2016 10 AM—2 PM

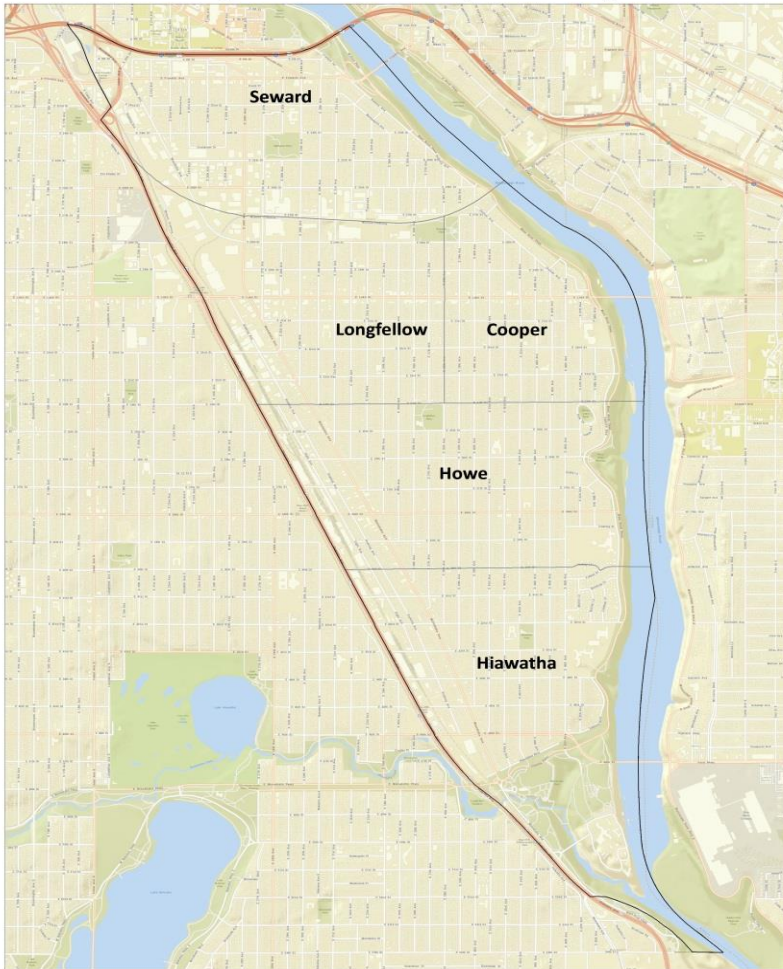
- 10am-10:15am Welcome, coffee and snacks
- 10:15-10:30am Introductions
- 10:30-10:45am Opening Discussion
- 10:45-11:15am Map Activity (Part I)
- 11:15-11:45am Video & Presentation on Minnesota's Extreme Weather and Changing Climate
- 11:45am-12:00pm Walk About and Reflection time
- 12:00-12:30pm Working lunch
- 12:30-1:45pm Map Activity Part II, Creating a Plan
 - Group 1: Emergency Preparedness
 - Group 2: Resilient Land Use Planning
- 1:45-2:00pm Closing Remarks & Next Steps

With support from the Public Health Institute and Kresge Foundation, and hosted by:



Longfellow Workshop – November 2016

Longfellow Community Boundary



Key Outcomes

- Initiate contact with vulnerable populations
- Actions to eliminate or reduce flooding
- Connect better on a block-level

Northside Preparedness Jam– September 2017

NATIONAL PREPAREDNESS MONTH 2017 Disasters Don't Plan Ahead. YOU CAN.

NORTHSIDE PREPAREDNESS JAM 2017

SEPTEMBER 23, 2017 10AM-2PM
PUBLIC EVENT FREEDOM SQUARE (2034 W BROADWAY AVE N)

SPONSORED BY

APPETITE FOR CHANGE **MINNEAPOLIS** **NEIGHBORHOOD HUB**
Health Department

FREE FOOD! LIVE PERFORMANCES! FAMILY FRIENDLY ACTIVITIES & LEARN ABOUT EMERGENCY PREPAREDNESS!

"DISASTERS DON'T PLAN AHEAD, YOU CAN!"



Key Outcomes

- Awareness about Emergency Preparedness, Climate Change, and Food Production

Northeast Workshop – October 2017

Water Bar & Public Studio



All Tracks Albums Playlists Reposts



Water Bar & Public Studio
Camila Prada Torres on her connection to water and her work at Water Bar & Public Studio #Storytelling 6 months

2 1 Share More ▶ 28

soundcloud.com/waterbarpublicstudio

Agenda

- **INTRODUCTIONS** - Share your name and your connection to Northeast Minneapolis, and something about yourself that you think might surprise people.
- **PLAY STORY NUMBER 1 - Brinkley Watson - Mississippi River 10 mins**
Discussion: What are the traditions or activities you do that connect you to this place and climate?
- **PLAY STORY NUMBER 2 - Jim Grell / Modern Cafe 10 mins**
Discussion: Was there ever a time that a severe weather event had an impact on your ability to get somewhere you needed to be; Or do something you needed to do?
- **PLAY STORY NUMBER 3 - Dan Engelhart - Edison High School 12 mins**
Discussion: Was there ever a time, directly or indirectly, that your health and safety was at risk because of a severe weather event? Looking back, do you think you were prepared or knew what to do in that case?
- **PLAY STORY NUMBER 3 - Jennifer Arave / Changes in Her Landscape**
Question: What is something that you already do (or think you could do) that might contribute to the well-being of yourself, your family, your community, or your environment... Whatever is important to you. A small change you could make, or something you could do with others.
- **Short presentation about climate change impacts**
- **Story gathering walk or map.** With a partner, explore these ideas as they impact our neighborhood.
- **Final conversation**
 - Share stories
 - Brainstorm solutions/projects: what do we do to protect the vulnerable places or utilize the important features identified?

Dinner – November 2017

- City staff and leaders
- Community based organizations and members



Climate, Health, and Resilience Dinner

Hosted by the Minneapolis Health Department and
Minneapolis Office of Sustainability

AGENDA

Welcome — 5:00 PM

Introduction — 5:30 PM

Appetite for Change - "Grow Food" performance — 6:00 PM

Table Activity — 6:05 PM

Water Bar — 7:00 PM

Table Activities Present Out to Large Group — 7:05 PM

Wrap Up — 7:45 PM



Appetite for Change: Grow Food Performance



Spring 2018

- Mini grants to community partners for ...
- Longfellow Prepared Parents
- “A Very Snowy Day” events in North and NE
- Sharing and recording stories
- Developing culturally appropriate emergency kits



Lessons Learned/Best Practices

- Developing Relationships with Community Partners

- Buy-in/Ownership
- Resources and capacity
- Increase City-community communication
- Build social networks
- Build awareness of preparedness, provide resources for community-developed preparedness

- Engaging City staff

- Start early in the process
- Keep them involved
- Incorporate practices and programs already in place



Brought To You By

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