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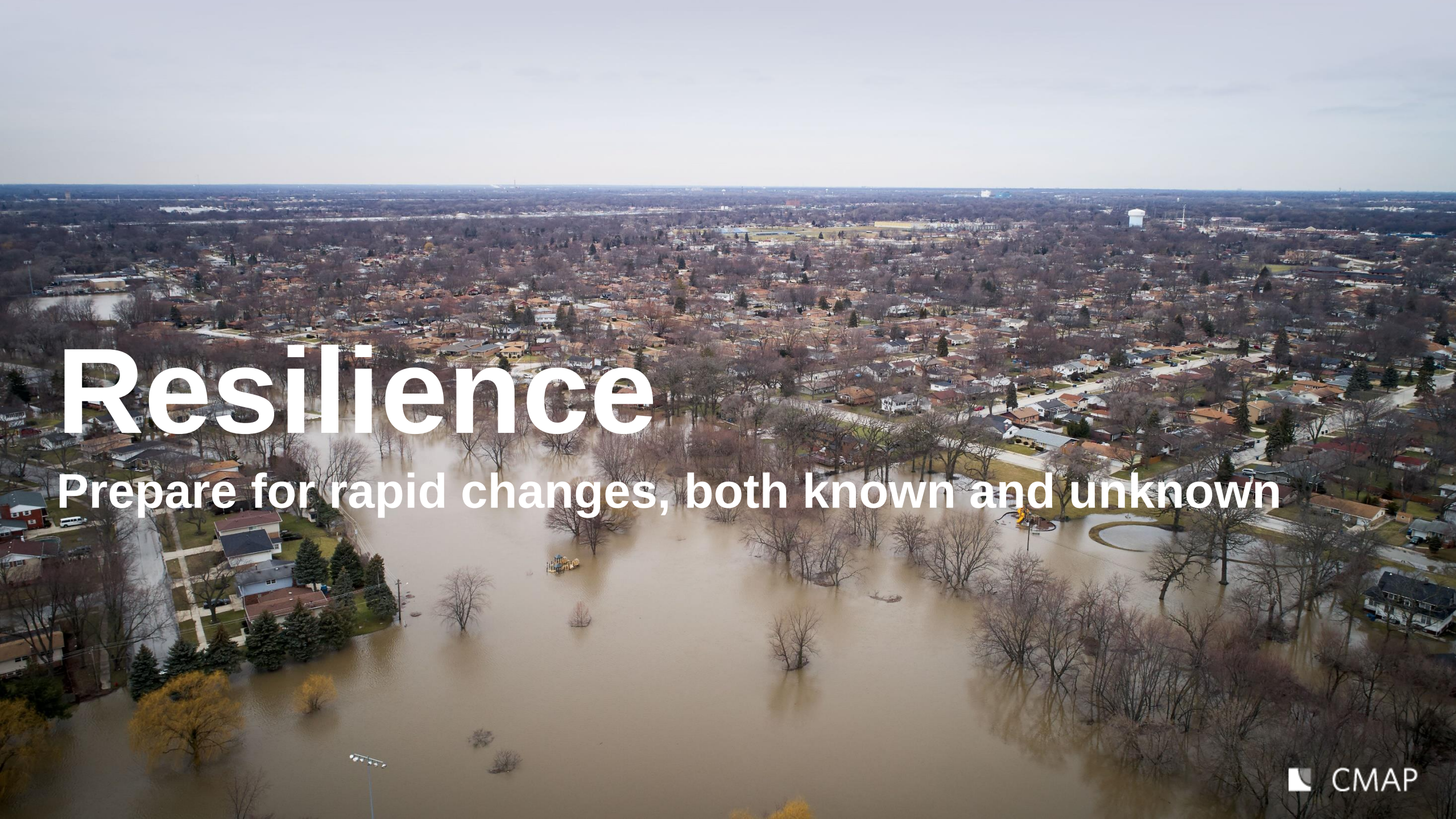
Climate Resilience:

helping communities identify and reduce flood risk

November 13, 2019



Resilience

Prepare for rapid changes, both known and unknown

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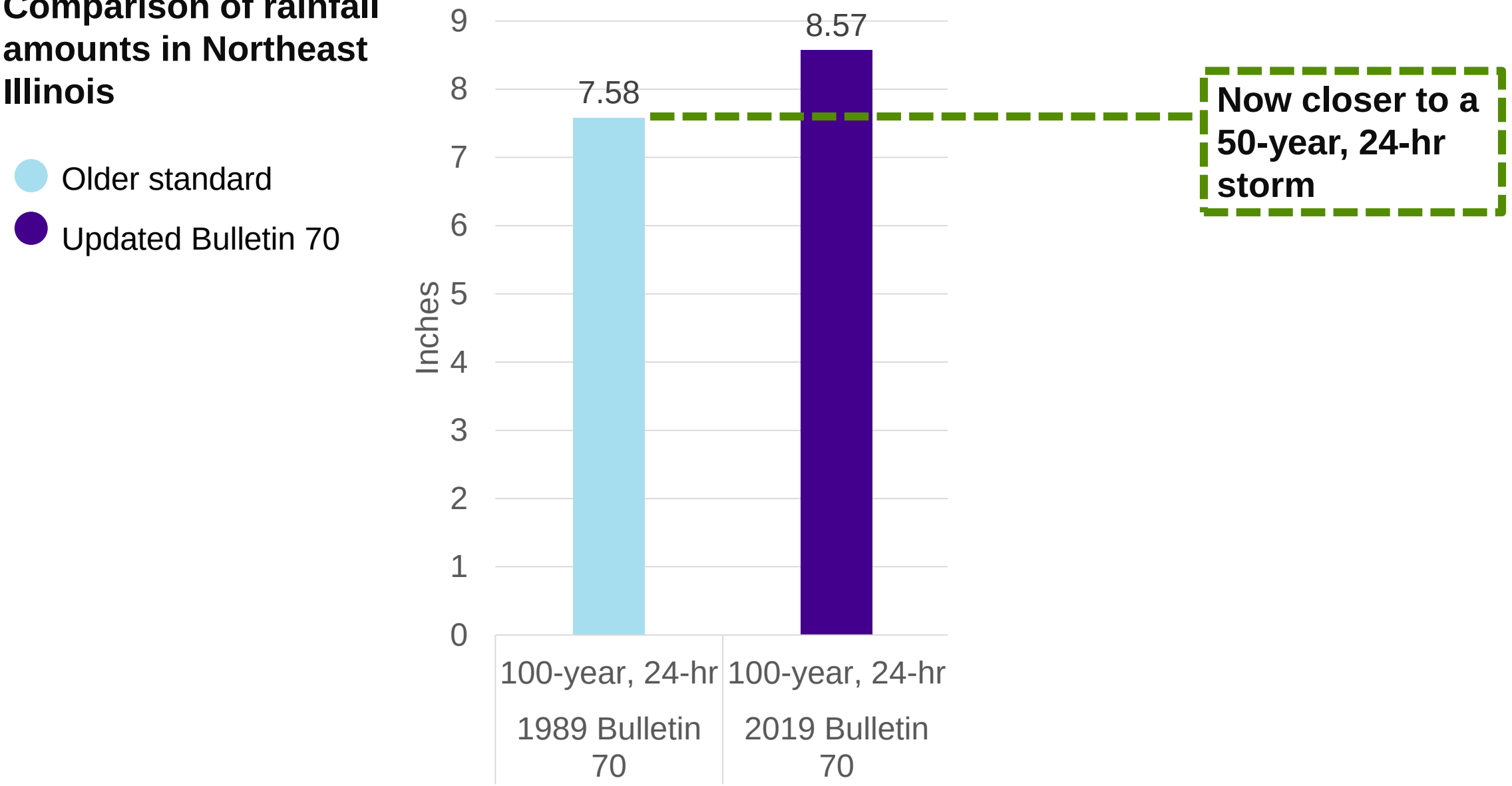
Comparison of rainfall amounts in Northeast Illinois



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Reduce flood risk to protect people and assets

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Reduce flood risk

Identify and communicate flood risk

Improve planning to reduce current and future flood risk

Address flood vulnerability of critical transportation assets

Identify and communicate flood risk

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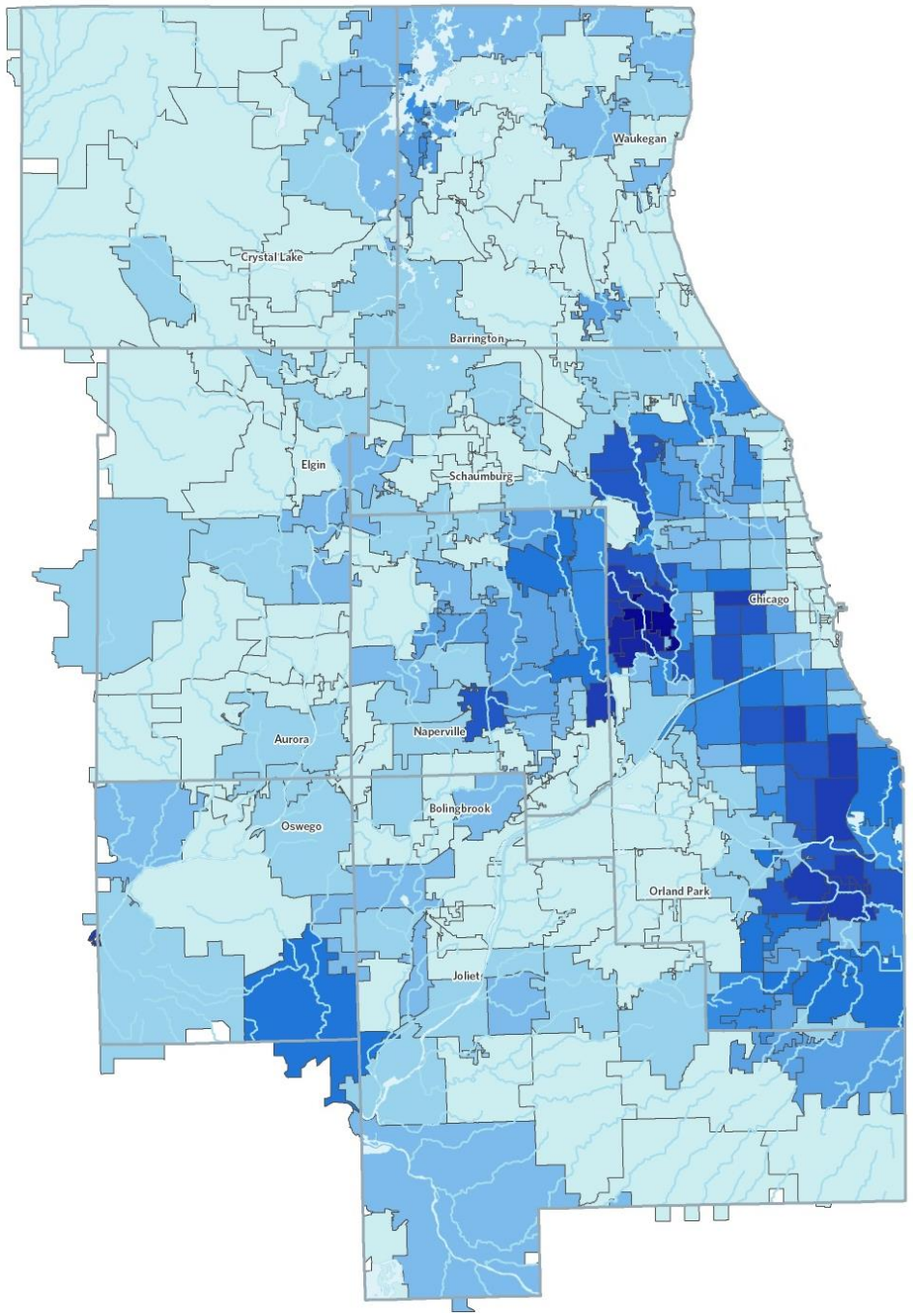
Total damage costs of NFIP, IA, and SBA payouts per 2010 household by zip code from 2003-2015

- $0 - $40
- $40.01 - $100
- $100.01 - $200
- $200.01 - $350
- $350.01 - $600
- $600.01 - $850
- $850.01 - $1,200
- $1,200.01 - $1,800
- $1,800.01 - $3,000
- $3,000.01 - $5,881



+70% outside of 100-year floodplain

Barriers to insurance

Based on larger storm events

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Urban Flood Susceptibility Index

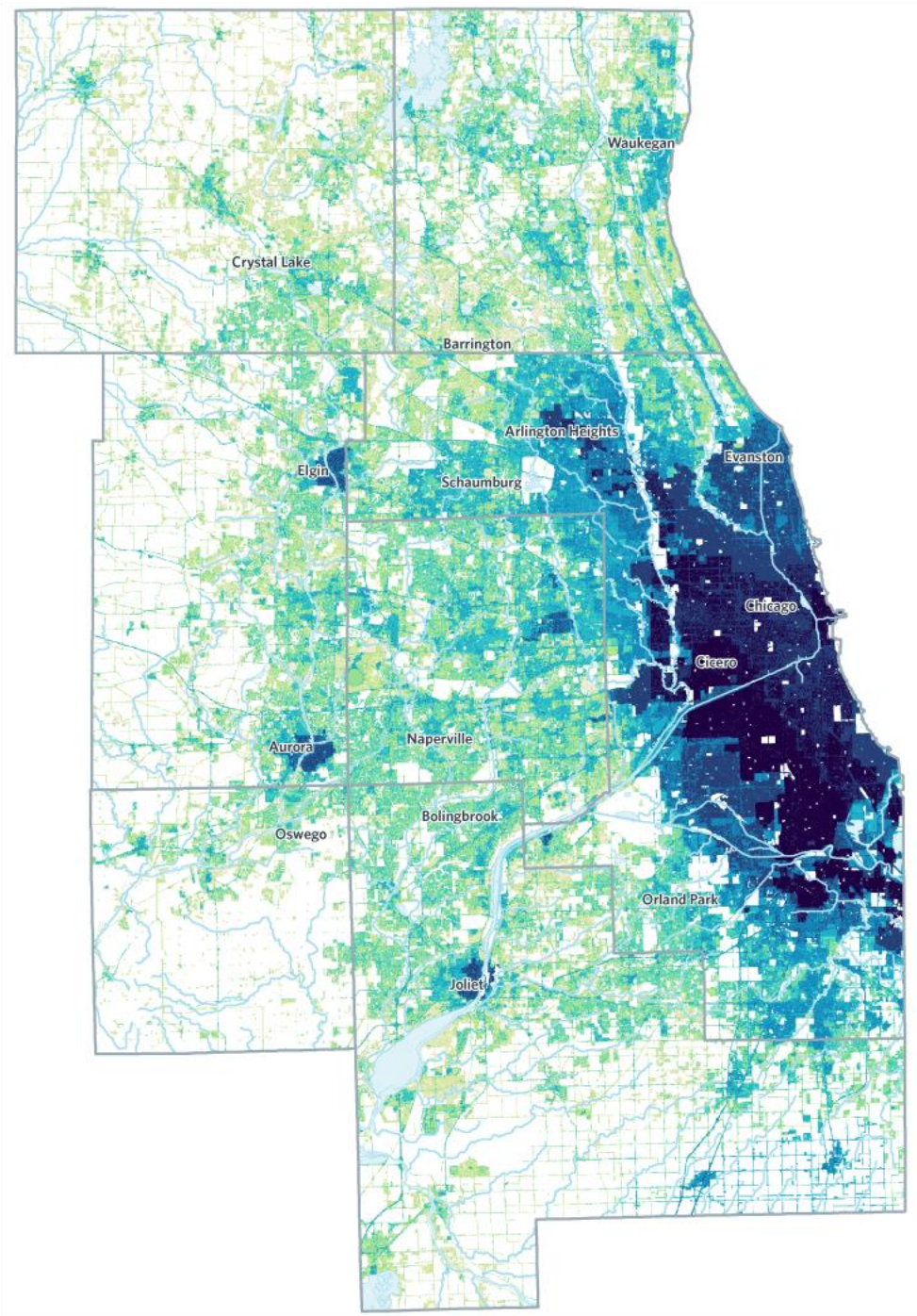
- Identify priority areas for flood mitigation activities
- Focus on developed areas outside of 100-year floodplain

Urban Flooding Susceptibility Index

- 10 (more susceptible)
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1 (less susceptible)

Note: For information on riverine flooding, see the Riverine Flood Susceptibility Index. Open space areas are not scored.

Source: Chicago Metropolitan Agency for Planning, 2018.



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Partners using the index

- MWRD's stormwater master planning program
- The Nature Conservancy's Urban Greenprint

Improve planning to reduce current and future flood risk

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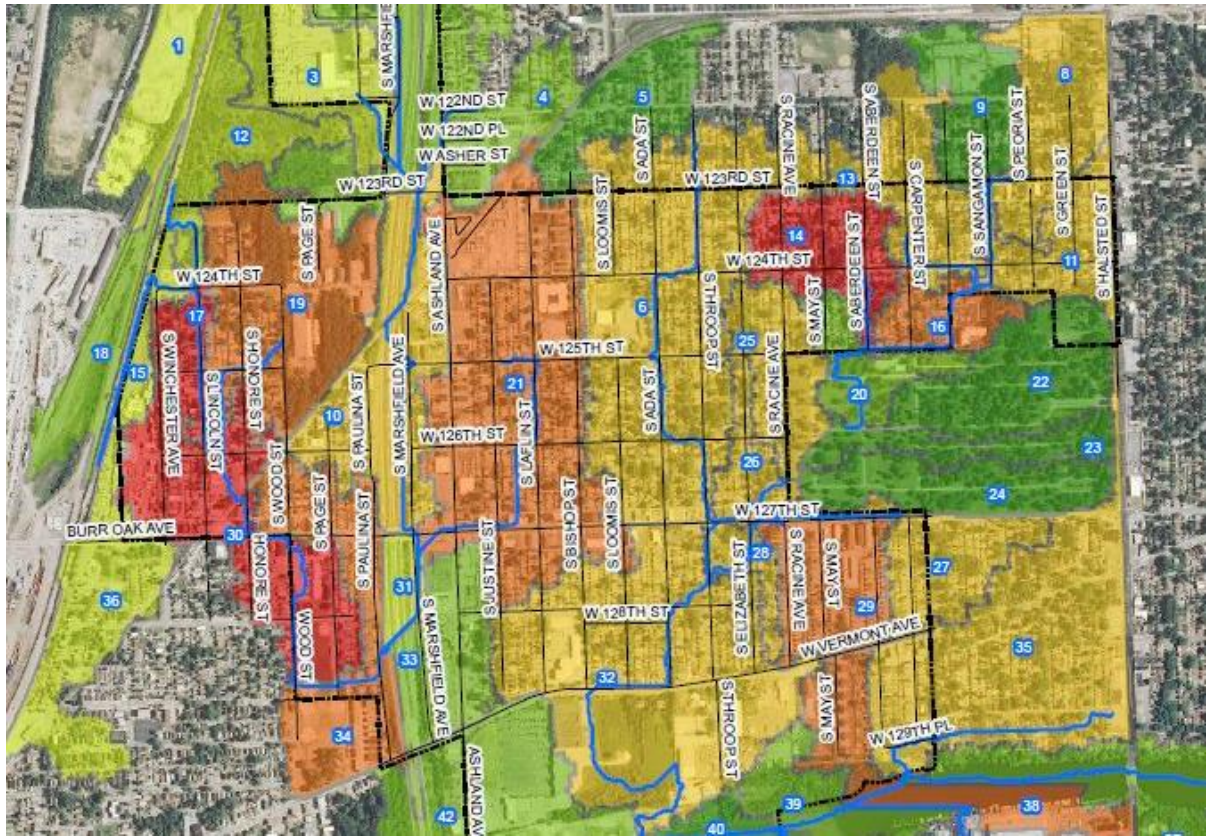
Local Plans



Calumet Park

Berwyn

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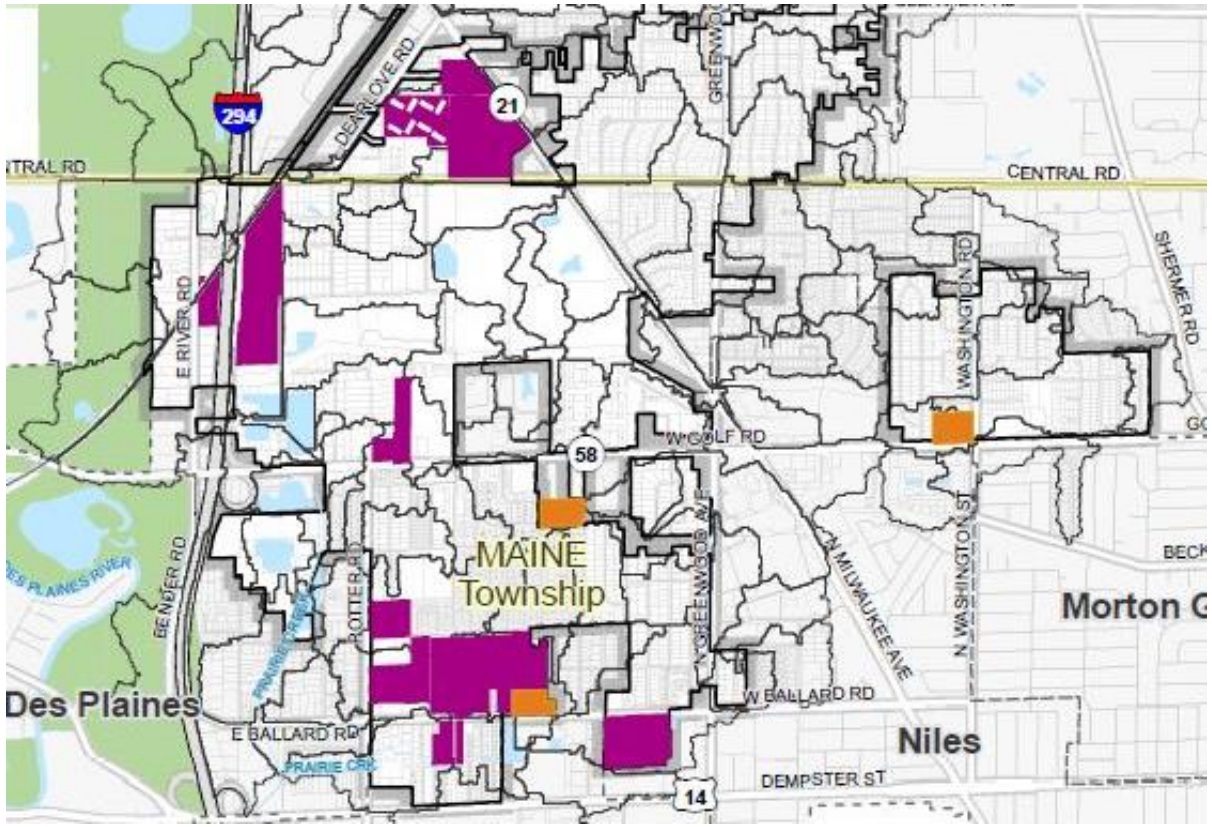
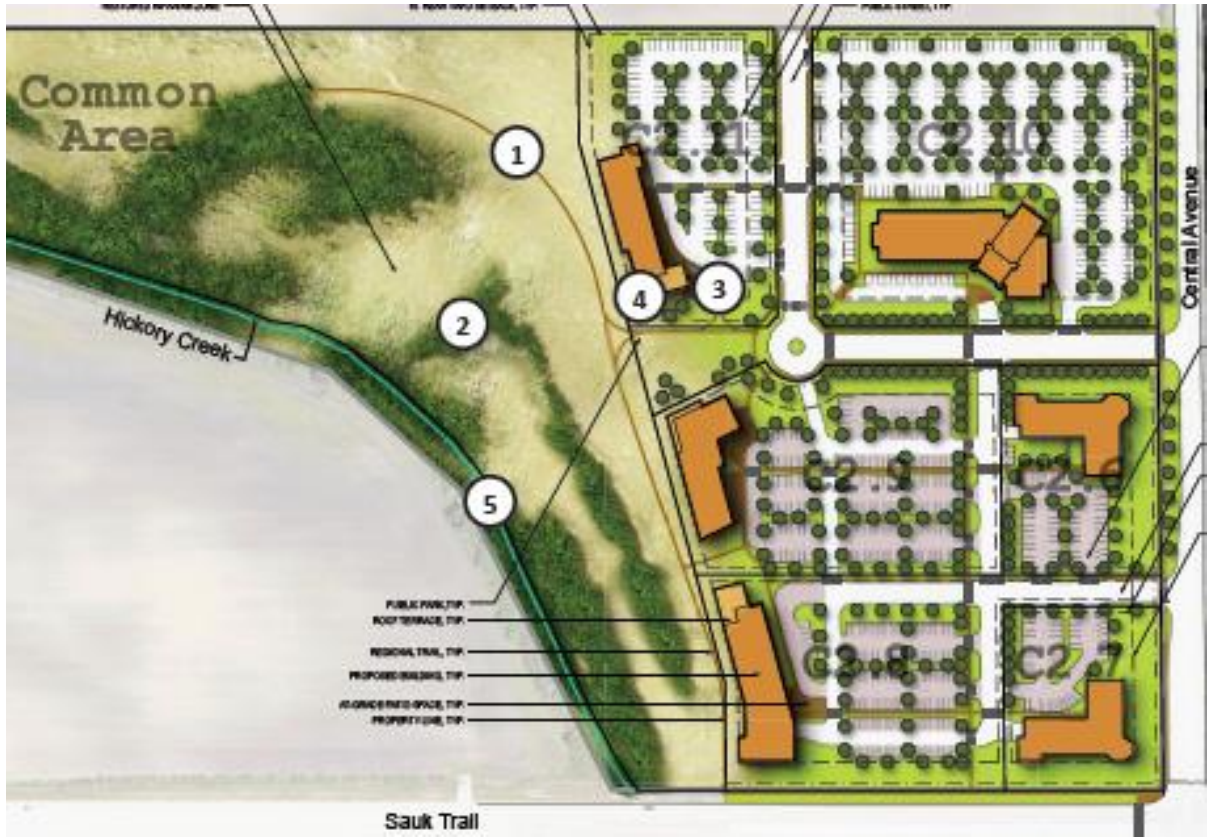


Maine-Northfield
Unincorporated Areas



Richton Park

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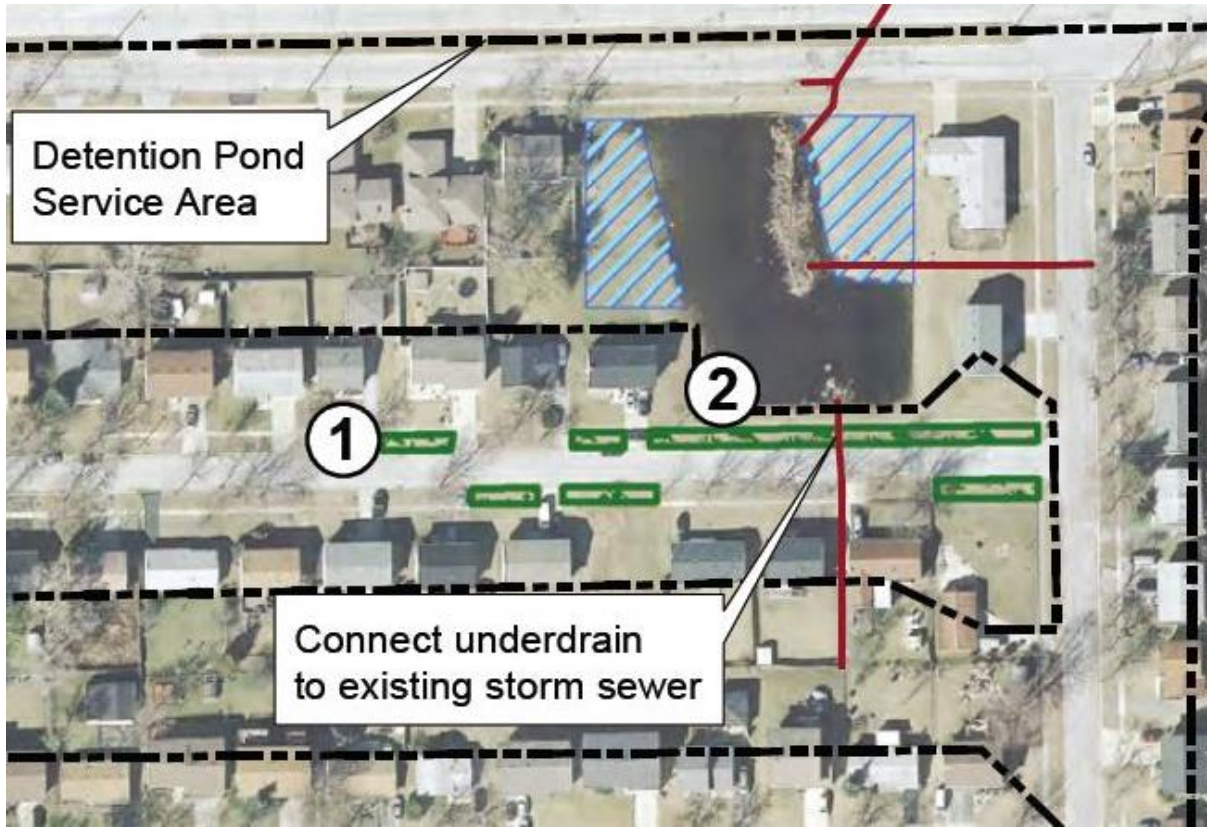

Sauk Village

Midlothian

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Address flood vulnerability of critical transportation assets

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Transportation and Stormwater Infrastructure Plan for the Central Council of Mayors

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Next steps

- Received 8 stormwater management plan applications during recent call for LTA projects
- Advance the Flood Susceptibility Index and explore other ways to analyze flood risk

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