
Resilient Communities Project: Climate Adaptation



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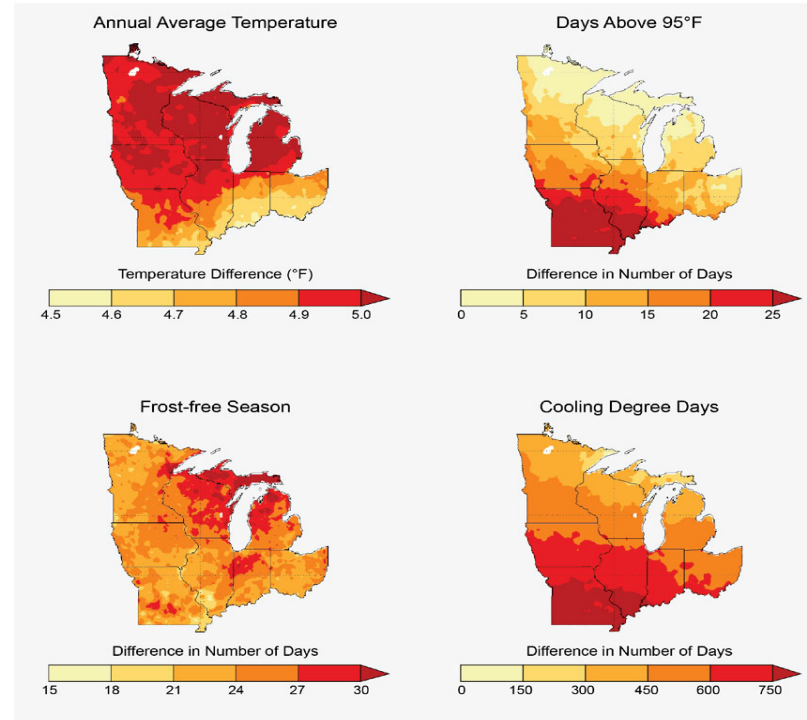
Roadmapping

1. How Climate Change impacts MN
 2. Potential Impacts on Rosemount
 3. What is a Vulnerability Assessment?
 4. Planning for Climate Change Adaptation
 5. Recommendations for Next Steps
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How Climate Change impacts MN

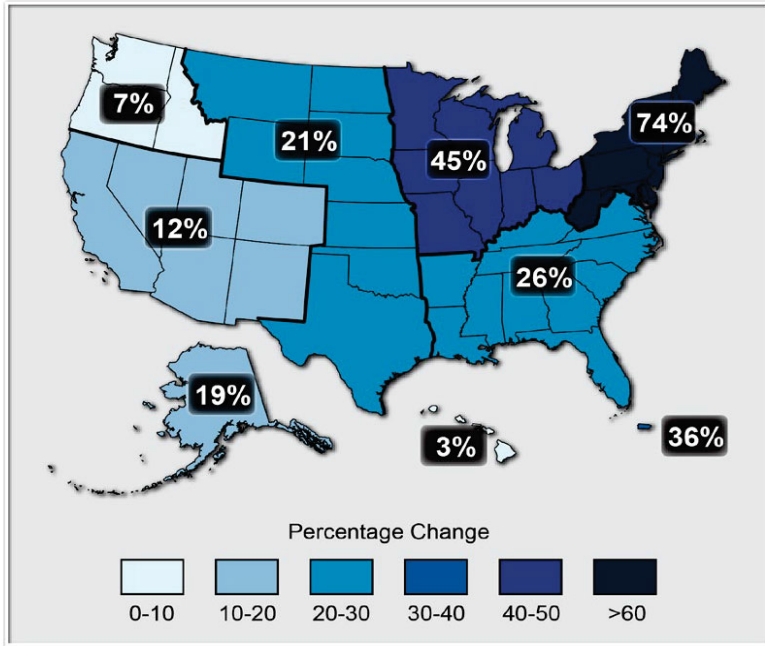
- Increasing annual average temperatures
- Increasing number of days above 95 degrees

Temperature Details Show a Range of Changes



How Climate Change impacts MN

Percentage Change in Very Heavy Precipitation



- Change in the amount and character of precipitation
- More frequent, heavier, or longer-duration rainfall events

Climate Change Adaptation Planning Process

1. Recruit community members
 2. Identify priority planning areas
 3. Conduct a vulnerability assessment
 4. Set goals for vulnerability reduction
 5. Establish metrics to gauge performance
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Planning Process

1. Recruit community members to form a committee on climate change adaptation



Planning Process

2. Identify the city's climate change priority planning areas

Examples:

- Stormwater management

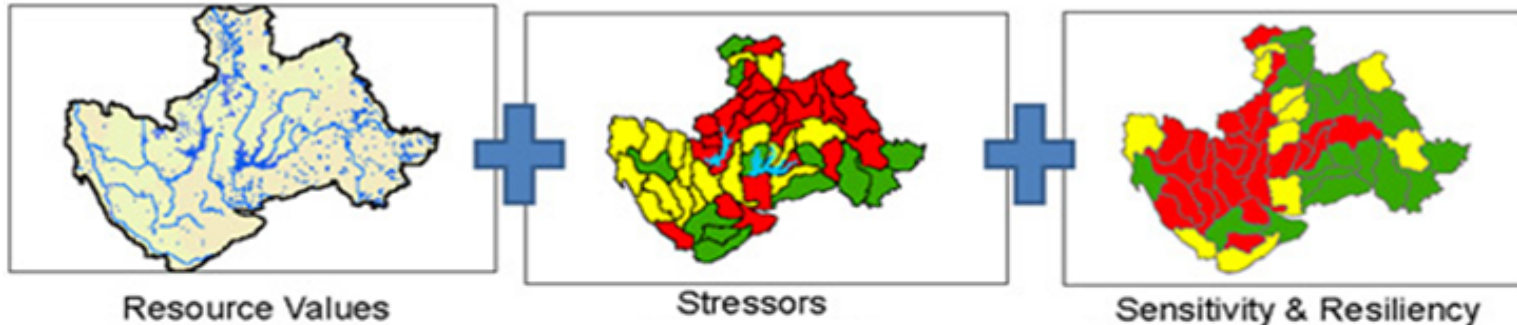


What is a Vulnerability Assessment?

- Used to identify existing stressors on built, social and natural systems
 - Predict how climate change will introduce new stressors in the future
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Planning Process

3. Conduct a climate change vulnerability assessment



Planning Process

4. Set goals for vulnerability reduction based on the probability and extent of the potential harm.

PLANNING AREAS WITH SYSTEMS THAT ARE...

| | Low Vulnerability | High Vulnerability |
|-----------|---|--|
| High Risk | <i>May be priority planning areas</i> | <i>Should be priority planning areas</i> |
| Low Risk | <i>Are unlikely to be priority planning areas</i> | <i>May be priority planning areas</i> |

Planning Process



5. Create a climate change action plan for the priority areas that the adaptation team identified.

Planning Process

6. Establish metrics to gauge performance throughout the planning process.

Recommendations for Next Steps

- Consider Low Impact Development (LID) methods for future projects
 - Adopt zoning ordinances to minimize exposure to environmental hazards
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Questions?
