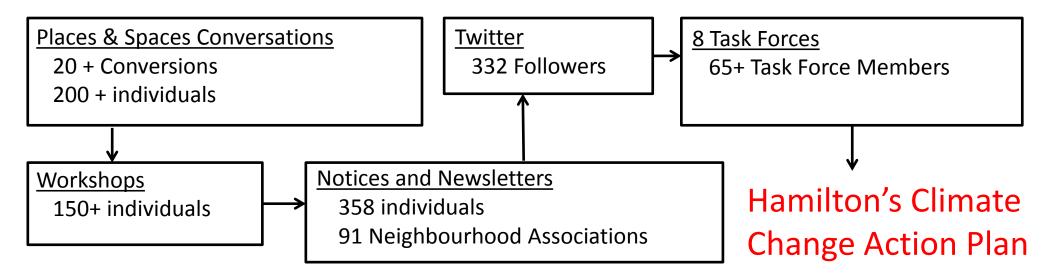


City of Hamilton Public Health Services



 "Let's Talk About The Weather": Community engagement campaign initiated in 2014 to develop 2016 Plan



Nine Themes to Plan

Agriculture & Food

Awareness & Education

Energy

Infrastructure

Land Use, Buildings & Build Form

Local Economy & Business



Transportation / Mobility

Water &
Natural
Heritage

TEN Main Priority Actions

- 1. Support local food production/consumption and integrate climate change mitigation/adaption strategies into existing farm and food plans and initiatives.
- 2. Establish ongoing education and awareness program/campaigns for climate change.
- 3. Develop a Community Energy Plan to guide the Hamilton community's energy future.
- 4. Revise and update municipal infrastructure guidelines to prioritize Low Impact Development (LID) as a preferred method for stormwater management.
- 5. Establish variable development charges to reflect real cost of buildings and maintaining infrastructure.

- 6. Create an accessible toolkit for businesses to assist with impact analysis and business continuity planning.
- 7. Conduct a local community vulnerability assessment of public health impacts from climate change.
- 8. Expand public transit services to include dedicated rapid transit lanes where possible.
- 9. Secure property that serves as source water storage or preserves wildlife corridors within the catchment.
- 10. Establish an ongoing oversight and coordination body to guide implementation of the Hamilton Climate Change Action Plan and report back on community progress and success.

Hamilton Facts

Reductions

- Achieved 20% reductions of 2006 emissions in 2016 (20%)
- Back on track to achievements

Adaptation

- Science Report done for City (Posted online)
- Undertook ICLEI BARC for Corporate Risks
- Undertaking workshops with community members for Community Risks
- Inform Adaption work in 2018

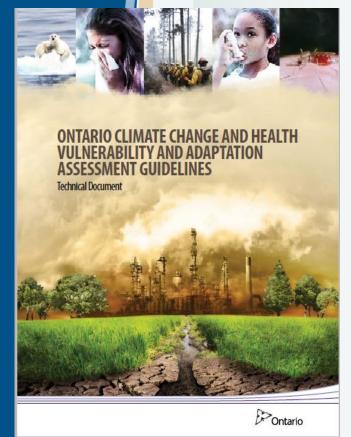
Projections:

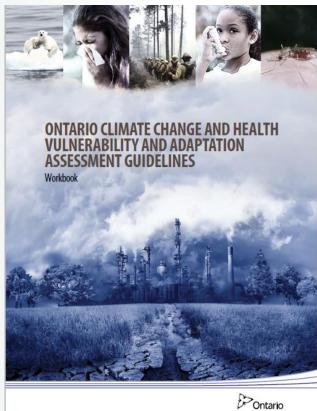
Increased Heat Increased Rain Increase extreme events

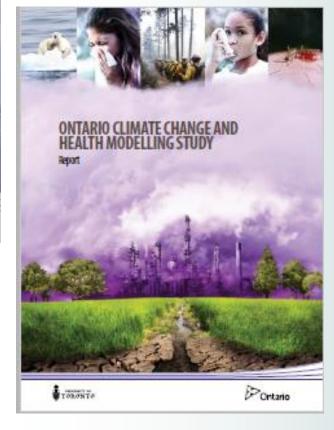
Observed:

Flooding
Drought and Heat
High winds

Climate Change and Health









Climate Change and Health

 This toolkit is intended to provide practical guidance to public health units for conducting vulnerability and adaptation assessments to better anticipate, address, and mitigate the impacts and risks of climate change on health outcomes.





Objectives

Importance

(1) Understand current impacts and potential future risks and impacts of climate change from an environmental health perspective; and

Integration

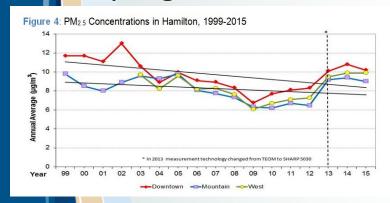
(2) Inform and improve existing operational processes within the environmental health program to account for the impacts of climate change.



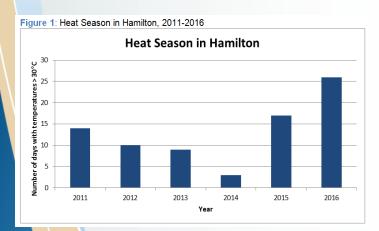
Climate Change and Health

 Using the toolkit as a guide, this project used both quantitative and qualitative methods to explore and understand climate change impacts and inform operational processes within the environmental health

program.



CAH, 2016



"Climate change is real...
Certainly, there is an impact [of climate change] to public health."

"I don't have any great evidence."

Each program would need to look at how it's gonna affect them and what sort of timelines...





Open windows to let a

Limit physical activitie

Check on your neighb lever leave children

Seek medical attentio

sweating, paleness, n dizziness, headache, 1

Hamilton

Methods- Quantitative

- The quantitative methods were used to understand current impacts.
- The quantitative data analysis was descriptive relating to the following issue areas:
 - Extreme temperature (i.e. heat, cold);
 - Air quality (i.e. air pollution, groundlevel ozone, particulate matter);
 - Vector-borne diseases;
 - Food- and water-borne diseases.

WARNING

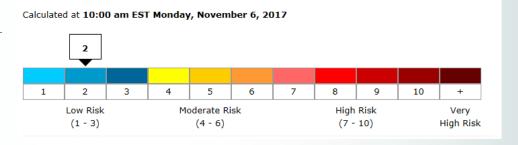
BLUE-GREEN ALGAE IS PRESENT IN HAMILTON HARBOUR

THIS AREA IS NOT SAFE FOR PEOPLE OR ANIMALS TO SWIM OR WADE

DO NOT EAT FISH CAUGHT FROM THIS AREA

For more information

FOOD SAFETY INSPECTIO



Hamilton Downtown: Current Air Quality Health Index

Methods- Qualitative

Appendix 1					
ADDELIUIA		CEI VI	IE W	Juli	ut

Date: _

Climate Change and Public Health Practice Project Interview Guide

Interviewers: Konrad Lisnyj, MPH(c); Sally Radisic, PhD, CPHI(C) Interviewee:

Aim: to engage in 30 minute discussion with Environmental Health Managers and their respective program specialists to gain insight into key health concerns from climate change (i.e. temperature extremes, air quality, water- and food-borne diseases, infectious diseases transmitted via insects, ticks, and rodents).

Part A: Overall Perceptions of Climate Change and its Effects on HPHS

- 1. As a manager/specialist of your program, what does climate change mean to you?
- 2. What are your perceptions of climate change on how it is impacting your public health program?
 - Probe: What are your perceptions of climate change on how it is affecting HPHS, your program, or public health in general?
 - · Probe: Are there any priority areas?
- Do you believe HPHS has a responsibility to address climate change, or should it be an issue at the provincial or national level?
- Probe: Is there any value to invest in climate change research at the municipal level?
- · Probe: Should there be a larger emphasis on climate change in HPHS plans?
- Probe: What program within HPHS do you think will be most affected by climate change?

The qualitative methods including semistructured interviews with key stakeholders (i.e. program managers and/or specialists) were used to inform and improve existing operational processes to better understand how we can account for climate change impacts within the environmental health program

The qualitative phase of this study used the Diffusion of Innovations (DOI) theory (Rogers, 2003) to inform the interview questions.

City of Hamilton, 2016



Methods- Qualitative

- The five stages of the adoption process include: (1) knowledge; (2) persuasion; (3) decision; (4) implementation; and (5) confirmation.
- we explored program experts' attitudes on climate change knowledge, perceptions, roles and responsibilities, and barriers and facilitators influencing climate change adoption in order to operationalize climate change and health impacts within existing
 HPD | Experience in the Decision Inspection



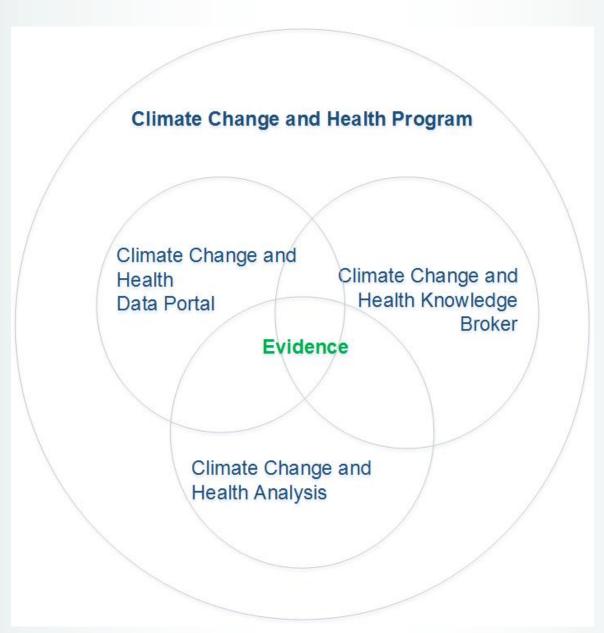
Key Findings

Table 2: Themes Corresponding to Climate Change and Health Perceptions, Roles and Responsibilities, Barriers, and Facilitators

Category	Theme	
Perceptions of Climate Change	Climate Change is a Reality Program Impact Uncertainty	
Roles and Responsibilities	Public-Private Collaboration	
Barriers	Lack of Evidence Resource Constraints	
Facilitators	Existing Policies and Procedures Organizational Engagement Climate Change Program	



Climate Change and Health Operational Process Model





Thank You

