

## **Regional Municipality of Waterloo**

### **Planning and Works Committee**

#### **Minutes**

Tuesday, December 8, 2015

12:35 p.m.

Regional Council Chamber

150 Frederick Street, Kitchener

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Present were: Present were: Chair T. Galloway, L. Armstrong, E. Clarke, \*S. Foxton, H. Jowett, K. Kiefer, G. Lorentz, J. Mitchell, J. Nowak, K. Redman, K. Seiling, \*S. Shantz, and S. Strickland

Members Absent: D. Craig, D. Jaworsky and B. Vrbanovic

#### **Motion to Reconvene Into Open Session**

Moved by S. Foxton

Seconded by K. Kiefer

That Committee reconvene into Open Session.

Carried

#### **Declarations of Pecuniary Interest under the “Municipal Conflict Of Interest Act”**

None declared.

#### **Request to Remove Items from Consent Agenda**

No items were removed from the Consent Agenda.

#### **Motion to Approve Items or Receive for Information**

Moved by S. Strickland

2025146

Seconded by G. Lorentz

That the following item be approved:

- PDL-CPL-15-59, Regional Response to “A Blueprint for Change: A Proposal to Modernize and Strengthen the Aggregate Resources Act Policy Framework” (Environmental Bill of Rights Registry 012-5444)

**Recommendation:**

That the Regional Municipality of Waterloo forward Report PDL-CPL-15-59, dated December 8, 2015 to the Ministry of Natural Resources and Forestry as its response to the Provincial Discussion Paper entitled “A Blueprint for Change: A Proposal to Modernize and Strengthen the Aggregate Resources Act Policy Framework.”

And That the following items be received for information:

- East Boundary Road Corridor Study, Dundas Street to Townline Road, City of Cambridge - Information Package in Advance of Public Consultation Centre #2
- Bridgeport Road/Caroline Street, ERB Street and Albert Street Reconstruction, City of Waterloo – Information Package in Advance of Public Consultation Centre #1
- TES-WAS-15-37, Hauled Wastewater Receiving Station Site Selection Update
- Management of Hauled Wastewater – Information Package in Advance of Public Consultation Centre

Carried

**Regular Agenda Resumes**

**Reports – Transportation and Environmental Services**

**Waste Management**

- a) TES-WMS-15-13, Woolwich Waste Transfer Station Update

Councillor S. Shantz briefly talked about what steps the Township of Woolwich is taking to move the transfer station to the private sector. She introduced a motion that asked that the Region continue to keep the Woolwich Transfer station open until the end of May 2016 to give the Township more time to complete the process.

Some Committee members raised concerns with keeping the Woolwich transfer station open for another five months, noting it doesn't affect the Request for Proposal (RFP) process, and questioned how it would be funded, and fairness to the other three townships.

A Committee member stated that if the motion is passed that the same support should be provided to the other three Townships. It was highlighted that only the Township of Woolwich has come back with a proposal and they have a process in place.

A Committee member suggested the option to double the fee from \$5.00 to \$10.00 during this extension period to help offset the cost. Jon Arsenault, Director, Waste Management, noted that option could be considered but wondered how it would impact the users. He stated that currently 60% of the users pay the minimum fee and the other 40% pay the full fee and that raising the fee may stop residents from using the site.

K. Seiling recommended a friendly amendment to the motion to state that this be the final financial contribution and that the funds come from the current Waste Management budget.

K. Kiefer requested a recorded vote.

Moved by S. Shantz

Seconded by E. Clarke

That the Regional Municipality of Waterloo approve to continue operating the Woolwich Transfer Station on the current schedule until the end of May 2016;

And that this be the final financial contribution and will be funded from the existing Waste Management budget.

Carried

Yeas: L. Armstrong, E. Clarke, S. Foxton, T. Galloway, H. Jowett, J. Mitchell, J. Nowak, K. Redman, K. Seiling, and S. Shantz

Nays: K. Kiefer, G. Lorentz and S. Strickland

Councillor S. Foxton introduced a motion that the same extension be given to North Dumfries Township.

Moved by S. Foxton

Seconded by K. Kiefer

That the Regional Municipality of Waterloo approve to continue operating the North Dumfries Transfer Station on the current schedule until the end of May 2016.

And that this be the final financial contribution and will be funded from the existing Waste Management budget.

Some Committee members asked that the motion be deferred until there is a proposal in place from the Township of North Dumfries or more information is provided.

Moved by K. Seiling

Seconded by S. Strickland

That the Regional Municipality of Waterloo defer the motion to keep the North Dumfries transfer station open until a proposal is received.

Carried

### **Design and Construction**

- b) TES-DCS-15-28, Consultant Selection – Erb Street Roundabouts at Waterloo Waste Management Centre, Gates 1 and 2 (Costco Entrances), City of Waterloo

\*S. Foxton and S. Shantz left the meeting at 12:58 p.m.

Committee members asked if the road improvements will increase the capacity at the Erb Street and Ira Needles Boulevard roundabout. Marcus Kroker, Head, Transportation Expansion Program, noted that the improvements being made include a right turn by-pass lane on the south and north bound movements and that will improve capacity in that roundabout.

Moved by S. Strickland

Seconded by J. Mitchell

That the Regional Municipality of Waterloo enter into a Consulting Services Agreement with Stantec Consulting Ltd. to provide consulting engineering services for the detailed design, construction contract administration and inspection services associated with Erb Street Roundabouts at Waterloo Waste Management Centre Gates 1 and 2, in the City of Waterloo, at an upset fee limit of \$90,000.00 plus applicable taxes to complete the detailed design, and with construction contract administration and inspection services to be paid on a time basis, at an estimated amount of \$295,000 as outlined in report TES-DCS-15-28, dated December 8, 2015.

Carried

**Delegations**

- c) PDL-CPL-15-58, Climate Adaptation Planning – Observations and Projections for Waterloo Region

Received for information.

Dr. Jason Thistlethwaite, University of Waterloo, provided a [presentation](#) to the Committee; a copy is appended to the original minutes. He highlighted the Climate is Changing, Global Climate Changing has Just Begun, Localized Climate Change Projection and Key Findings. He talked about the climate conditions projected to change in Waterloo Region being temperature, precipitation and changes in extreme heat.

Committee members asked the delegation what is the biggest impact the Region can provide. Dr. Thistlethwaite highlighted awareness is key as well as assessment prioritizing and land use planning.

- d) TES-DCS-15-33, Recommended Intersection Improvements at Ira Needles Boulevard and Westhill Drive, City of Waterloo

Moved by S. Strickland

Seconded by L. Armstrong

That the Regional Municipality of Waterloo approve the implementation of a raised centre median thereby restricting traffic movements to right-in, right-out only from Westhill Drive onto Ira Needles Boulevard (Regional Road #70) in the City of Waterloo as described in Report No. TES-DCS-15-33, dated December 8, 2015.

Carried

**Water Services**

- e) TES-WAS-15-38.1, 2016 Rain Barrel Distribution

Moved by K. Redman

Seconded by H. Jowett

That the Region of Waterloo distributes subsidized rain barrels to residents at a cost of \$40 each during spring of 2016, as detailed in Report TES-WAS-15-38.1 dated December 8, 2015.

Carried

f) TES-WAS-15-39, Protecting Water From Winter Salt: “Curb the Salt” Campaign  
Received for information.

Leanne Lobe, Supervisor, Source Water Protection Programs, provided a [presentation](#) to the Committee; a copy is appended to the original minutes. She highlighted improving practices, setting standards, raising awareness and the six key messages of the Curb the Salt Campaign.

Committee members discussed liability and conflicting messages from Area Municipalities.

L. Lobe highlighted that the Smart about Salt Council is currently working to develop standards for contractors which can also be used by the insurance companies.

g) TES-WAS-15-40, Rural Water Quality Program: Five-Year Extension to the End of 2020

Moved by J. Nowak

Seconded by J. Mitchell

That the Regional Municipality of Waterloo approve extension of the Rural Water Quality Program for a further five years to the end of 2020 and allocate \$1.25 million for incentives to farmers as outlined in report TES-WAS-15-40, dated December 8, 2015.

Carried

h) TES-WAS-15-41, Clean Water Act Source Protection Plan – Impacts on Planning and Building Permit Applications

Received for information.

i) TES-WAS-15-42, Groundwater Monitoring Program 2016-2020 Consultant Selection

Moved by K. Redman

Seconded by G. Lorentz

That the Regional Municipality of Waterloo:

- a) Enter into a Consulting Services Agreement with R.J. Burnside & Associates Limited to provide consulting geoscience services for the Region of Waterloo Groundwater Monitoring Program for the period January 1, 2016 to June 30, 2018 (Phase 1) at an upset limit of \$842,800 plus applicable taxes; as presented

in this report; and

- b) Authorize staff to renew this contract for the period from January 1, 2018 through June 30, 2020 (Phase 2) at an upset limit of \$912,831 plus applicable taxes, subject to acceptable performance of the consultant in meeting project outcomes and deliverables. [TES-WAS-15-42]

Carried

### **Information/Correspondence**

Council Enquiries and Requests for Information Tracking List was received for information.

### **Other Business**

- a) J. Mitchell asked that staff look at using renewable energy for the LRT and report back on the cost.
- b) G. Lorentz asked that updates on construction projects be included on the tracking sheet.

### **Next Meeting – January 12, 2016**

### **Adjourn**

Moved by K. Redman

Seconded by K. Kiefer

That the meeting adjourn at 1:41 p.m.

Carried

**Committee Chair, T. Galloway**

**Committee Clerk, E. Flewwelling**

# Global Climate Change: What do we expect to see locally?



Waterloo Region Localized Climate Projections Report  
October 2015

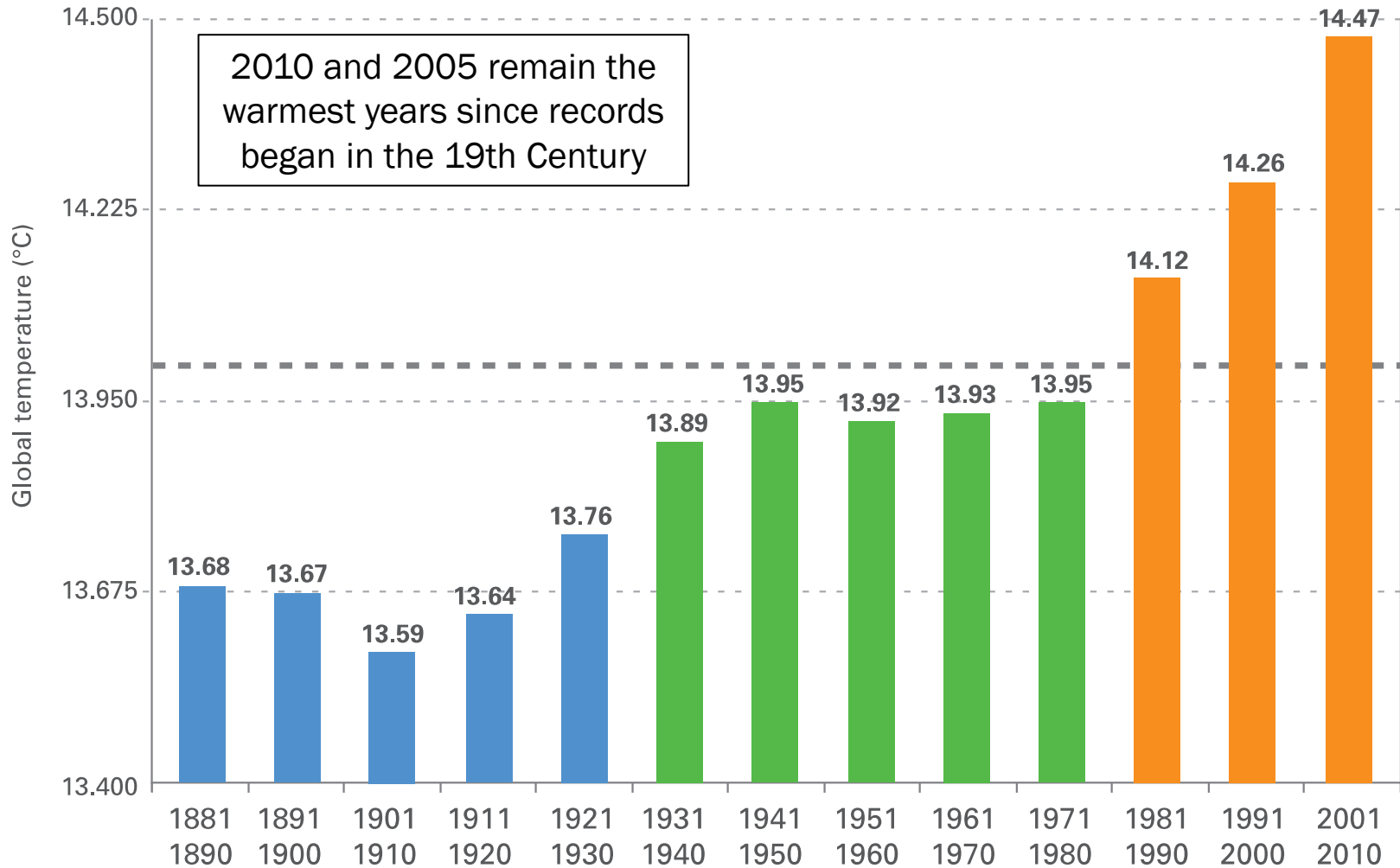
PREPARED BY:

Dr. Chris Fletcher, Dr. Daniel Scott,  
Dr. Jason Thistlethwaite, Alex Cadel, Sarah Brown



# The Climate *IS* Changing:

## Global Temperature Change: Decadal Averages (°C)

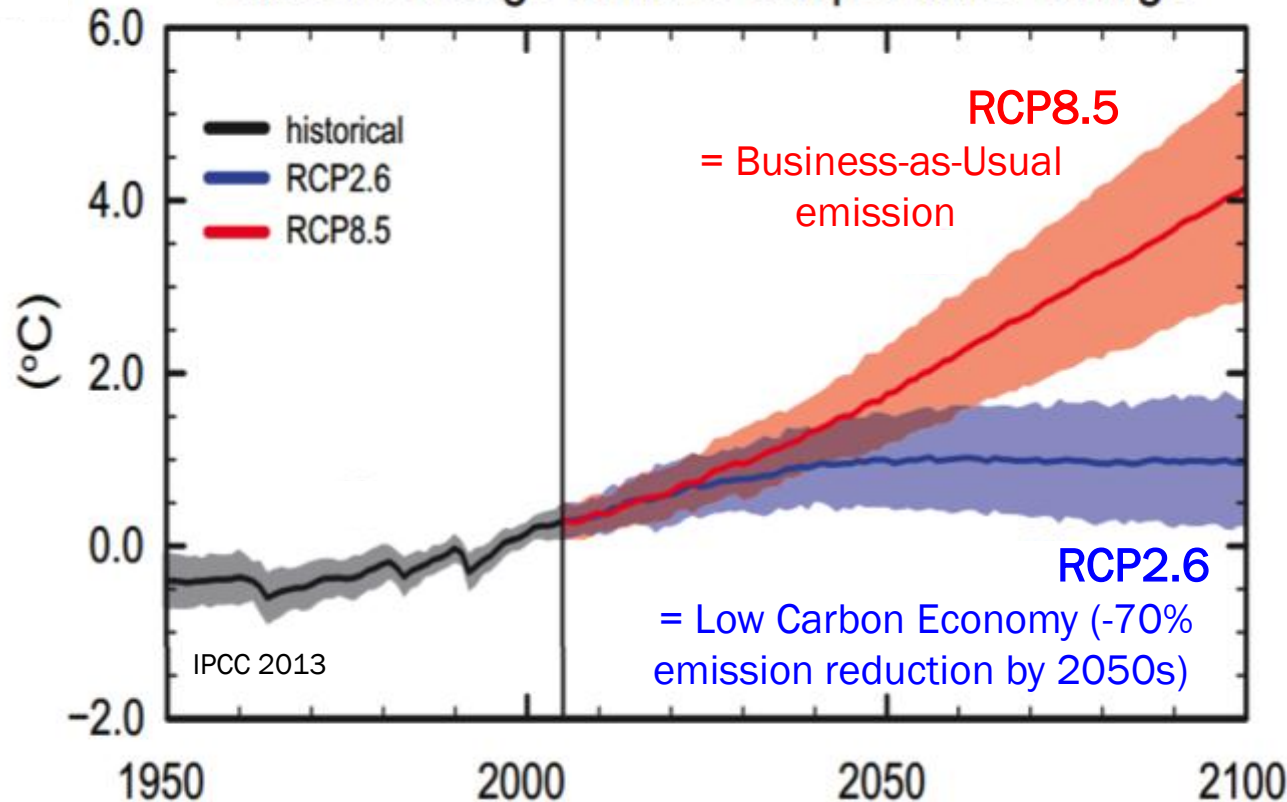


Combined land and sea-surface temperature

Source: WMO 2013

# Global Climate Changing Has *Just Begun*

Global average surface temperature change



20<sup>th</sup> century warming  
+0.85 °C

21<sup>st</sup> century warming  
+1 °C to +4.2 °C

Current emissions  
trajectory slightly higher  
than 'worst case' scenario  
(RCP8.5)

In 2009, the global scientific community adopted a goal to limit global warming to 2 °C compared to pre-industrial temperatures. We are approaching the half-way point towards threshold of 'dangerous' climate change.

# Locally, we notice changes in extremes

## Waterloo Region cleans up after fierce storm

Hydro crews work feverishly to restore power after strong winds down trees, hydro poles

By Colin Butler, [CBC News](#) Posted: Jul 20, '13

## Ice storm damage in Waterloo Region worth at least \$1.2M

[CBC News](#) Posted: Jan 12, 2014

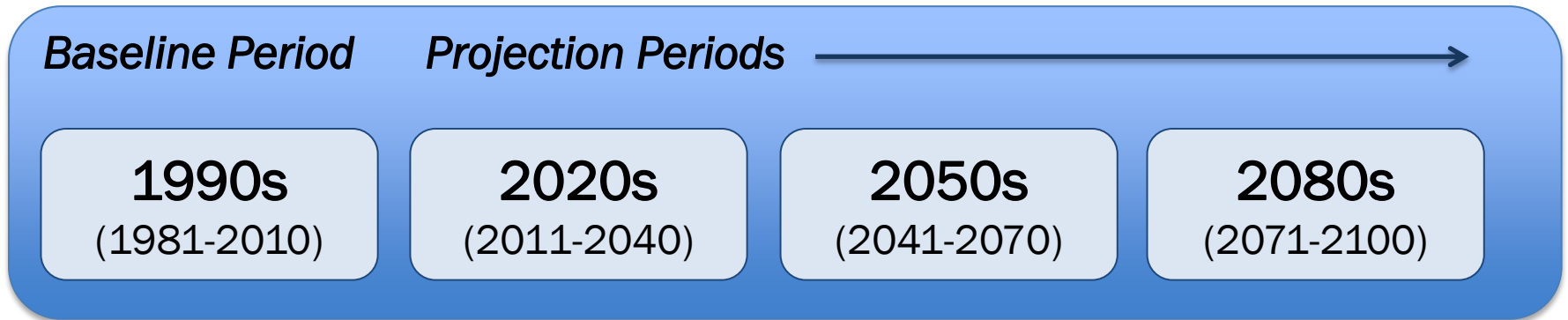
## Torrential rain cause traffic tie-ups and localized flooding

CTV Kitchener, Published Friday, June 28, 2013

Photo: Flash flooding is seen at Fairview Park Mall in Kitchener, Ont., (Courtesy Driveseat Kitchener)



# Localized Climate Change Projections



*For each projection period, three possible futures were studied (Scenarios):*

- RCP 8.5 “business-as-usual”
- RCP 4.5 “aggressive mitigation”
- RCP 2.6 “net-zero carbon

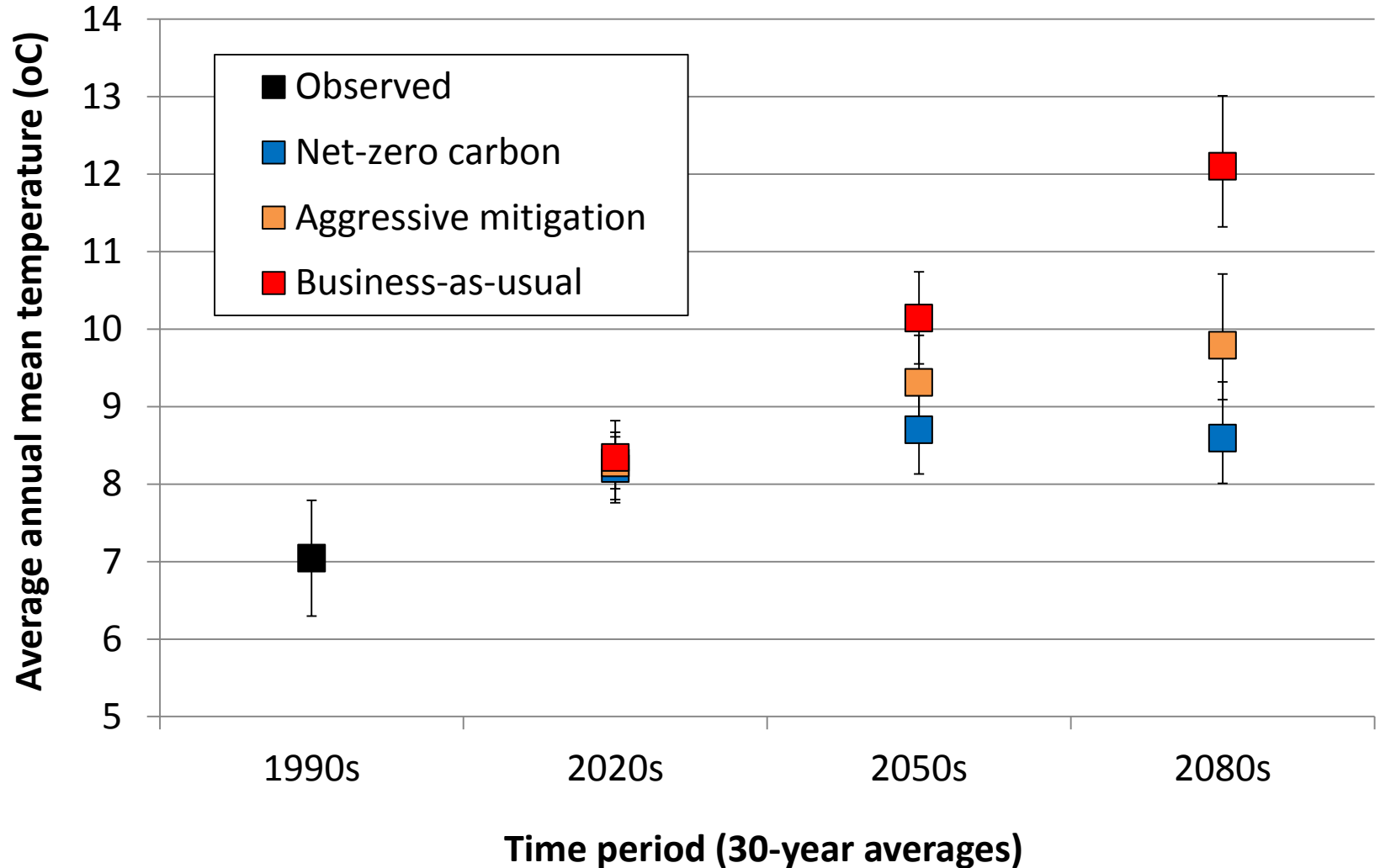
**Globally, we are currently on track for RCP 8.5... business-as-usual.**

# **Key Findings:**

**Which climate conditions are projected to change in Waterloo Region, by how much, and by when?**

# Warmer and (Probably) Wetter

Annual mean temperature (Waterloo Region)



# Next Step: Considering Policy Implications

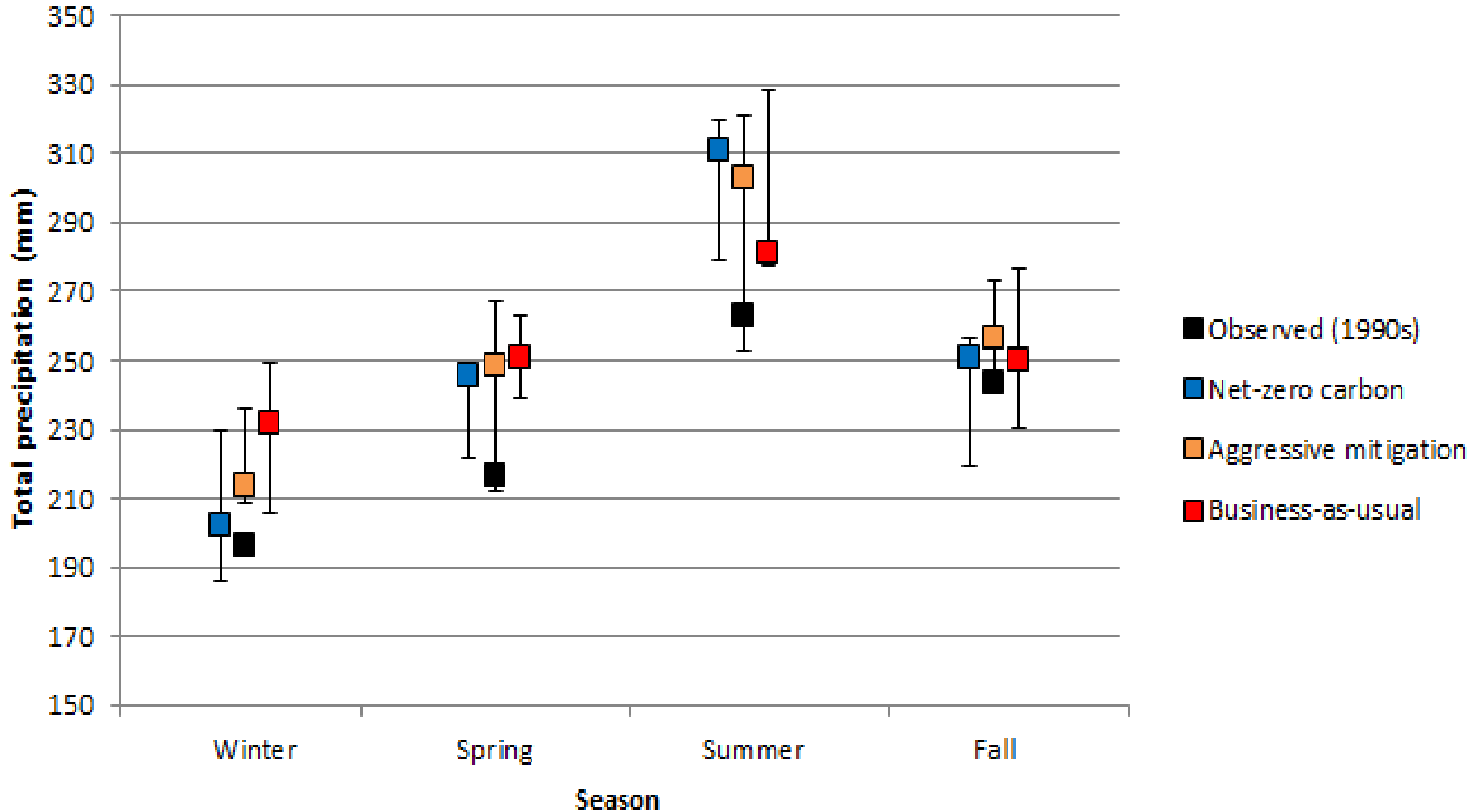
For example:

- Temperature in February in 2050s is expected to be 3-5°C warmer than it is today, pushing the average temperature for the month closer to 0°C
- What does this mean for pests, winter tourism and recreation, winter road maintenance, risk of freezing rain events, etc?



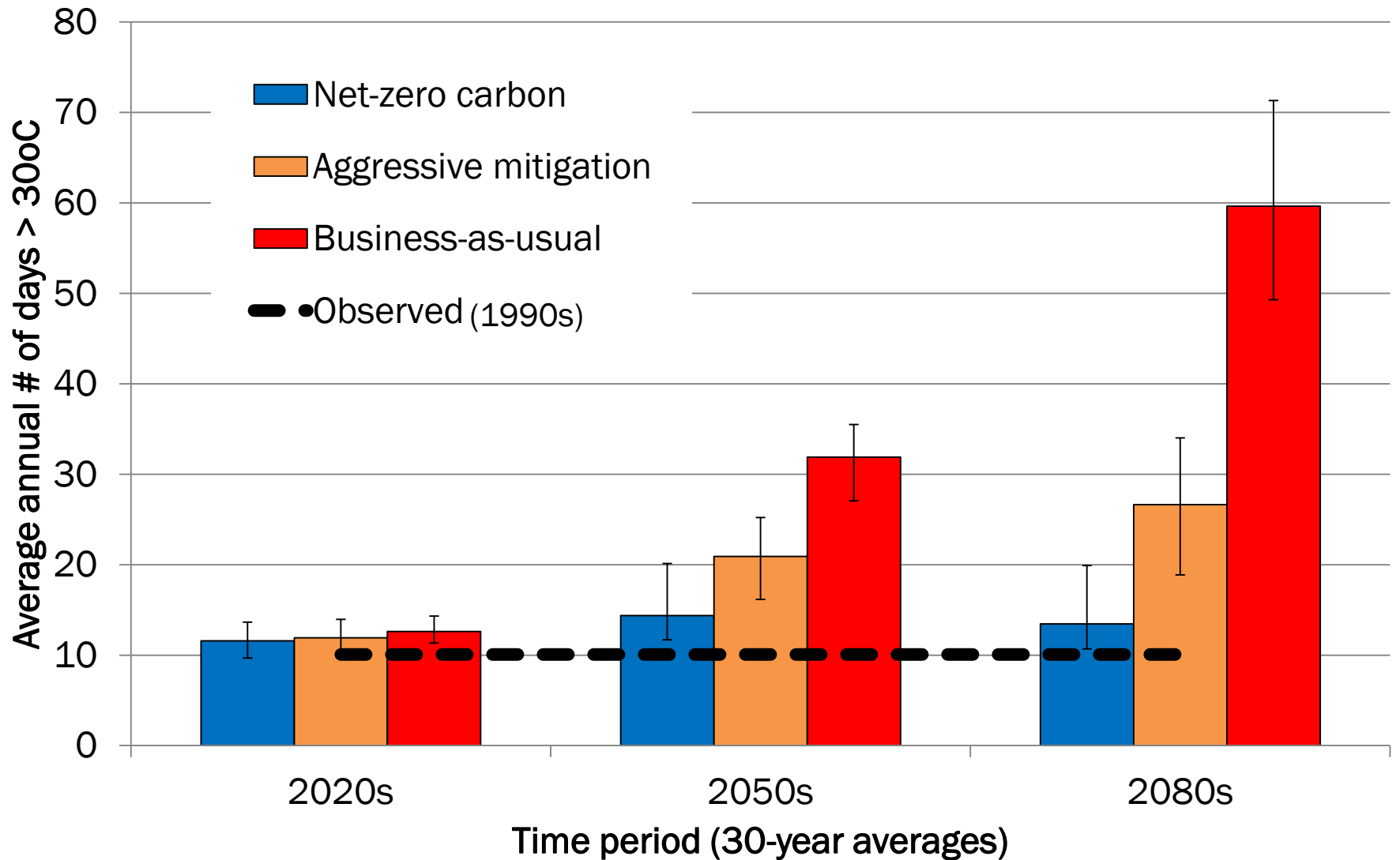
# Warmer and (Probably) Wetter

Seasonal Precipitation Amounts (2050s, Waterloo Region)

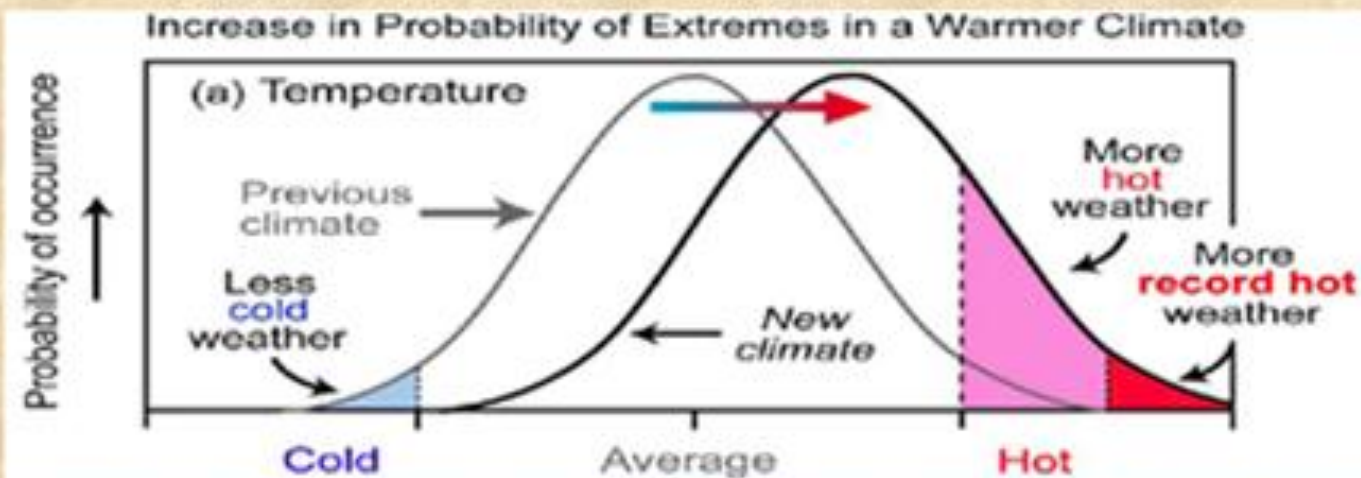
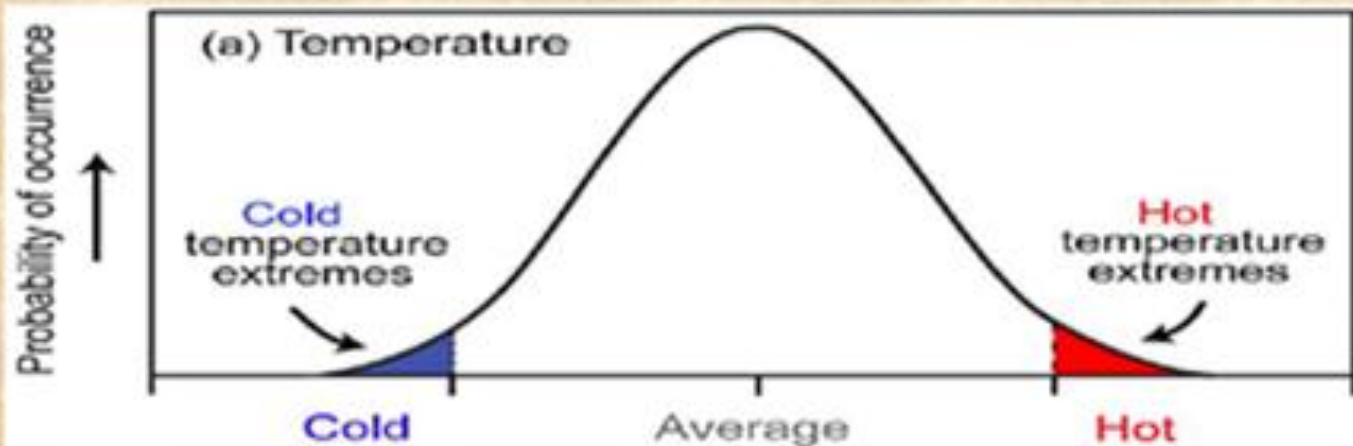




# More Extreme Heat Days



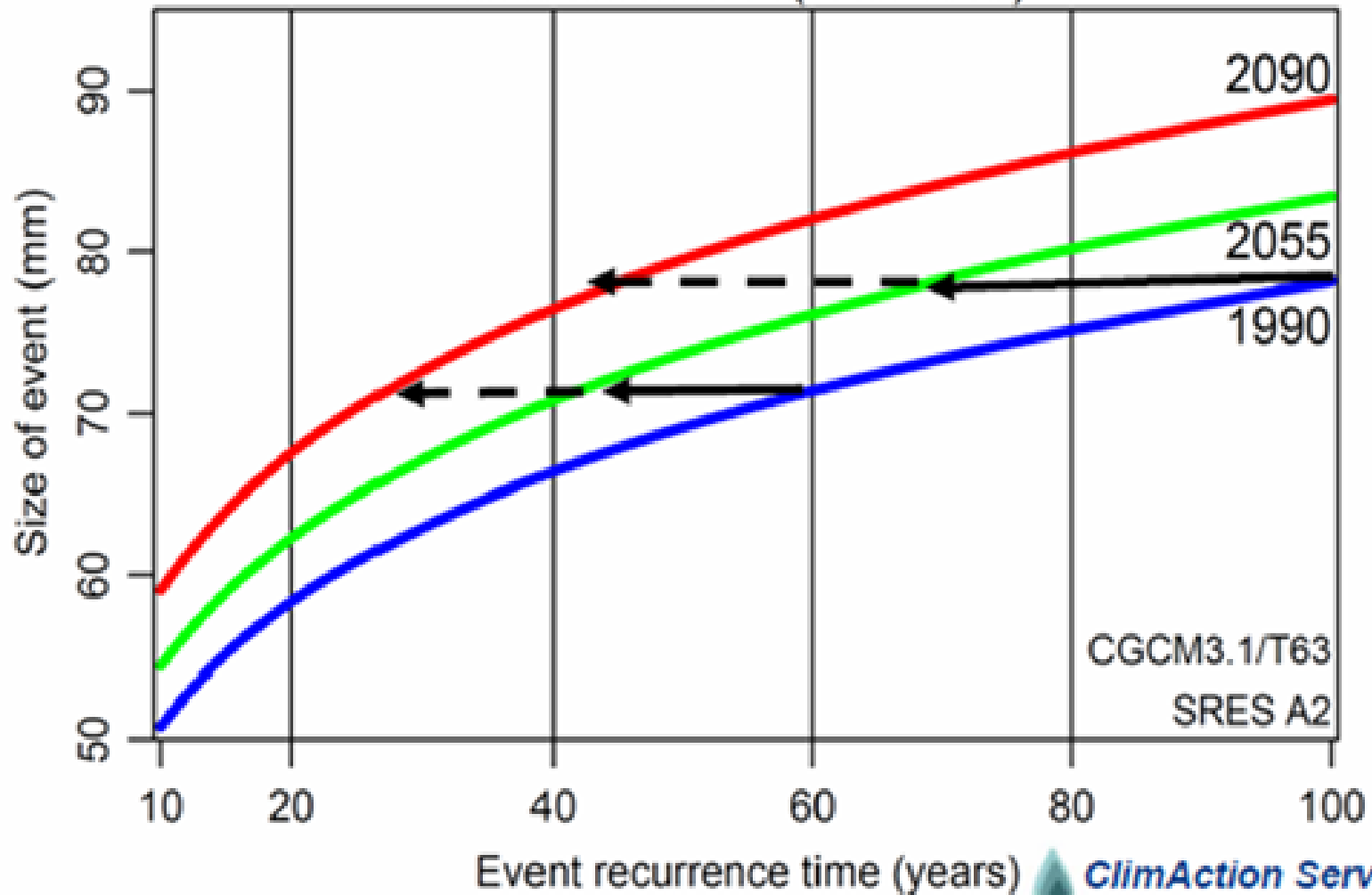
# What is an extreme event



(NOAA 2008: CCSP SAP 3.3)

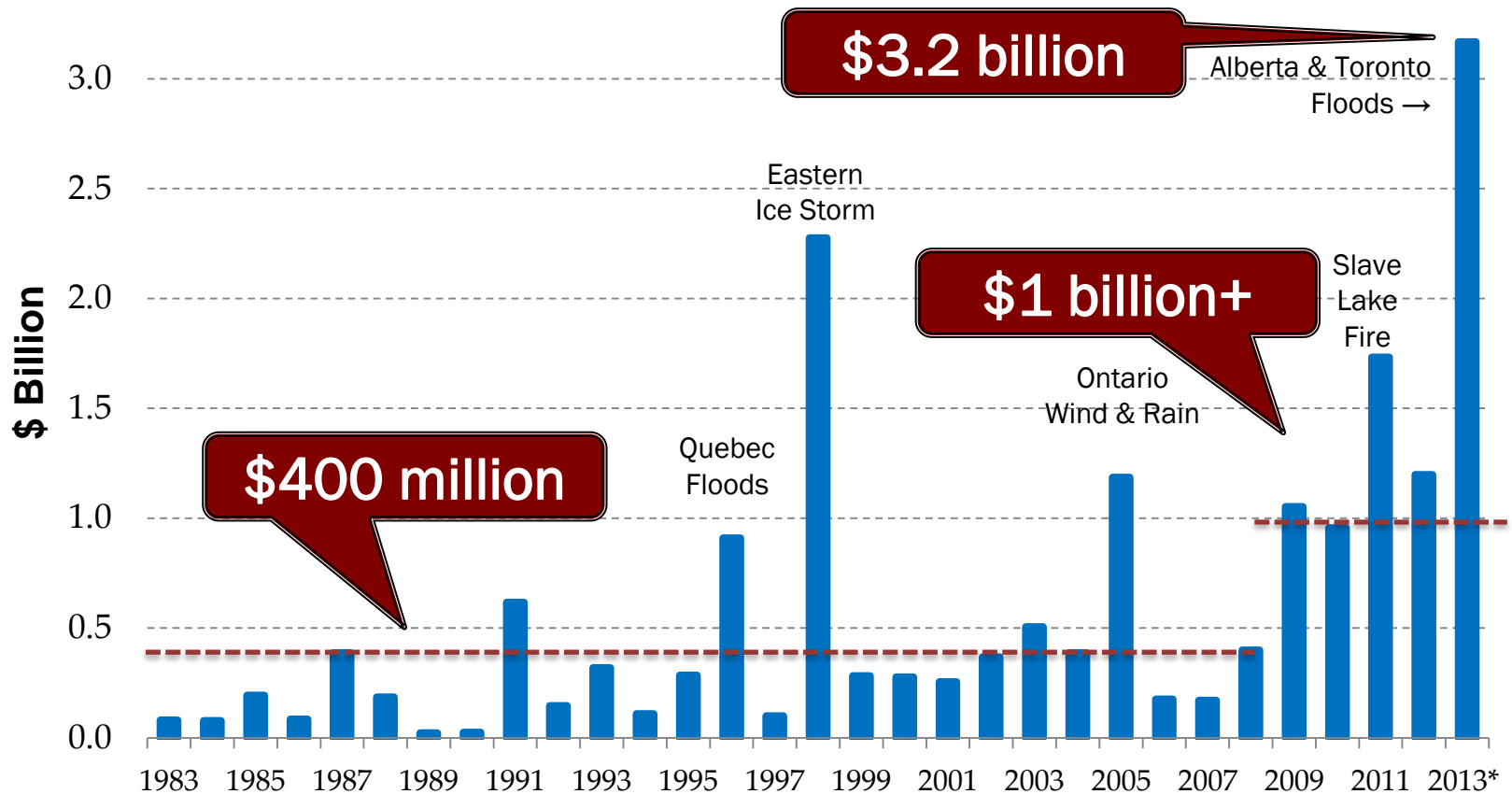
# 24-hour precipitation extremes

## North America (25N-65N)



# Canadian Trends in Insurance Losses:

## *Conditions for Property Insurability Eroding*



Source: IBC Facts Book, PCS, Swiss Re, Munich Re & Deloitte  
 Values in 2012 \$ CAN

Calgary Flood >\$6B total damages

# How do we respond?

## Mitigation:

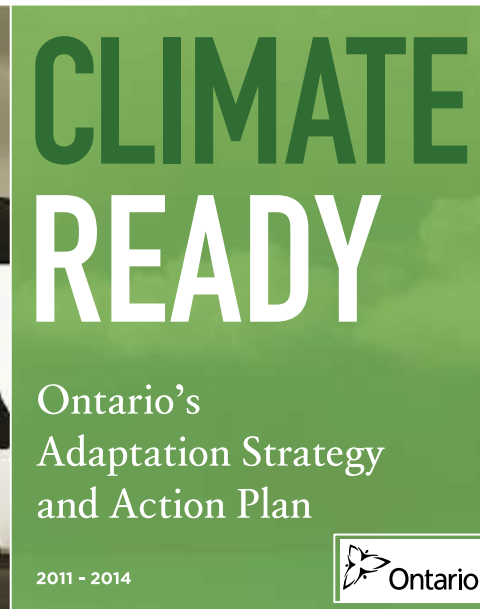
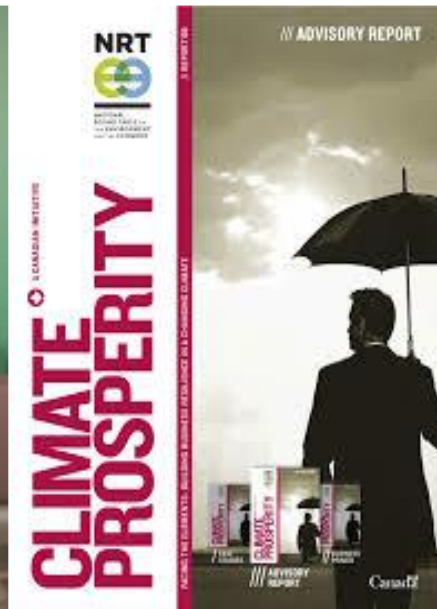
“Implementing policies to reduce greenhouse gas (GHG) emissions and enhance sinks.”

- IPCC, 2007

## Adaptation:

“[An] adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities.”

- IPCC, 2007



# Understanding Climate Projections is Part of the Adaptation Imperative

- ‘Politically realistic (emission reduction) objectives will leave most of the burden of coping with climate change to adaptation.’  
(Stehr and von Storch, 2005)
- ‘The **necessity for adaptation** to climate change is becoming a much higher priority for Ontario ... There is a need to build a more climate-resilient economy and society.’  
(Province of Ontario, 2010)



»» For more information:

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519-888-5467 ext. 39102

**THANK YOU!**



UNIVERSITY OF  
**WATERLOO**

Interdisciplinary Centre on Climate Change 

The logo for the Interdisciplinary Centre on Climate Change (IC3), featuring the letters 'IC' in a large, blue, serif font, with a '3' in a smaller, blue, sans-serif font to the right. The '3' is partially enclosed by a blue globe icon.





Region of Waterloo

**Salt impacts our water.**

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**CURB THE  
SALT**

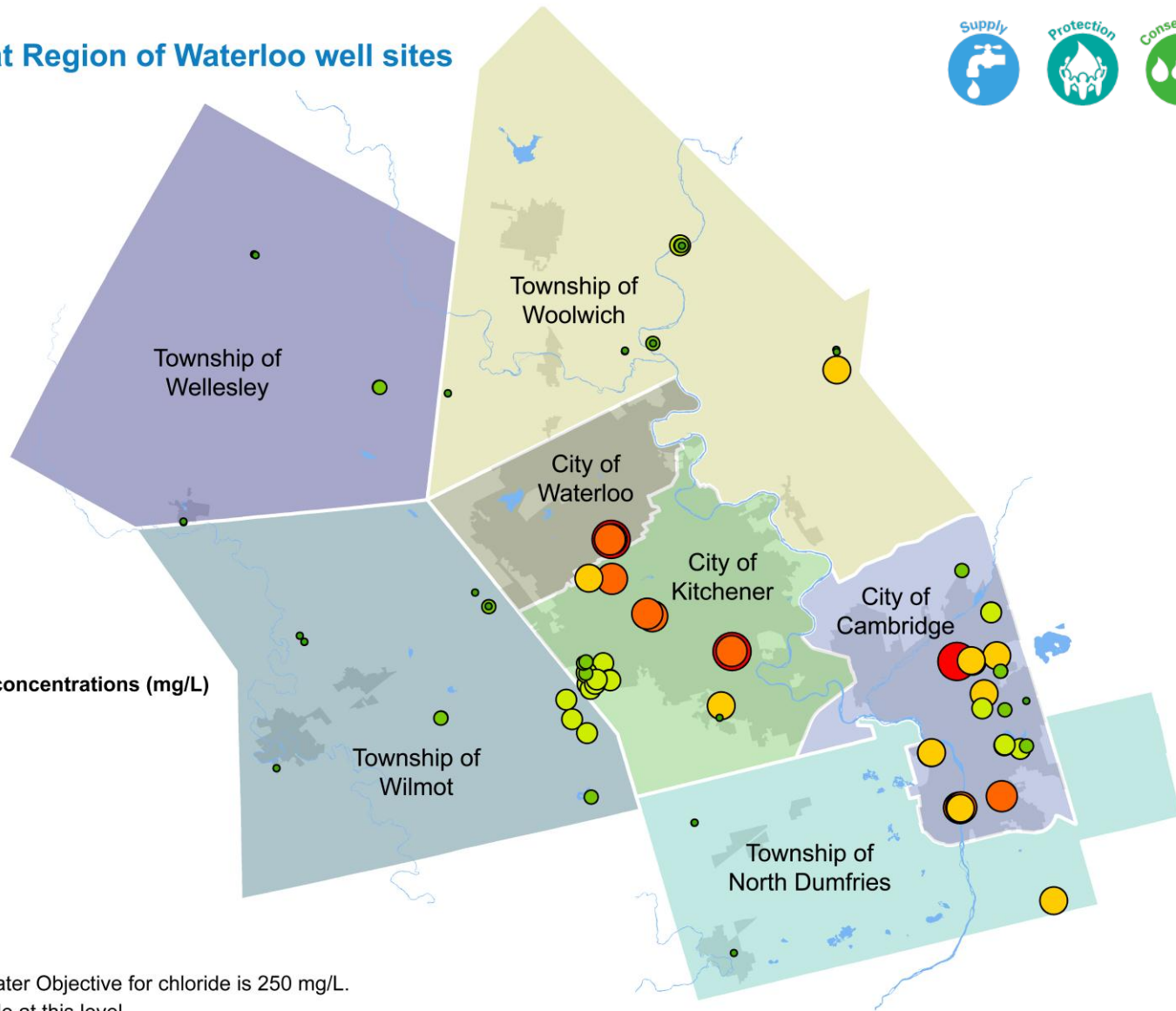
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**We all have a role to play.**





# Water quality at Region of Waterloo well sites



2014 to 2015 chloride concentrations (mg/L) for production wells:

- < 25
- 25 - 50
- 50 - 100
- 100 - 200
- 200 - 400
- > 400

\*The Ontario Drinking Water Objective for chloride is 250 mg/L.  
A salty taste is detectable at this level.



# It's Not Just Roads





## Improving Practices



## Better Design



## Setting Standards



## Raising Awareness





EnviroNics Survey 2015

Protecting drinking water  
top environmental priority



LURA Survey 2014

30%

Salt has a large impact on water quality





Region of Waterloo

**Salt impacts our water.**

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**CURB THE  
SALT**

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**We all have a role to play.**





Salt is only  
one way to  
ensure safety





Prevent ice.





Shovel sooner  
than later.





Use salt  
wisely.



Use salt  
alternatives.







Wear winter  
boots.



Put snow tires  
on your car.







# Spreading the Word



Salt impacts our water.

# CURB THE SALT

We all have a role to play.

The Region of Waterloo is committed to protecting our water. We are working to reduce salt use on roads and on properties through innovative solutions and partnerships.

To learn what YOU can do to protect our water supply and reduce the use of salt, contact REGION OF WATERLOO WATER SERVICES:  
519-575-4400 • [curbsalt@regionofwaterloo.ca](mailto:curbsalt@regionofwaterloo.ca)  
[www.regionofwaterloo.ca/curbsalt](http://www.regionofwaterloo.ca/curbsalt) • [#curbsalt](https://twitter.com/curbsalt)





# CURB THE SALT

Salt impacts our water. We all have a role to play.



## Know when salt works best?

Take the “Think You Know Salt?” quiz to learn this and more about salt.

[www.curbthesalt.ca](http://www.curbthesalt.ca)

