



Local Governments  
for Sustainability  
CANADA



# THE COST OF DOING NOTHING

## APPENDIX A:

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# NATIONAL AND SUBNATIONAL DATA SOURCES





# APPENDIX A

## SOURCES OF NATIONAL AND SUBNATIONAL CLIMATE CHANGE IMPACTS AND COSTS

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This Appendix is a resource of the **Cost of Doing Nothing Toolkit**. It compiles several publicly available national and subnational resources and datasets to support municipalities in understanding and evaluating climate change projections, costs and impacts across a number of sectors and climate change hazards. Please note that additional provincial-specific datasets are available and may be quite useful depending on a municipality's geographic location.

Produced By	Resource/Tool	Topic	Description
Asset Management B.C.	<a href="#">Integrating Natural Assets into Asset Management</a>	Natural asset management	Integrating Natural Assets into Asset Management is one of a series of primers developed to expand upon concepts in <i>Asset Management for Sustainable Service Delivery: A BC Framework</i> .

<b>Produced By</b>	<b>Resource/Tool</b>	<b>Topic</b>	<b>Description</b>
Canadian Centre for Climate Services (CCCS)	<a href="#">Canadian Centre for Climate Services Climate Hub</a>	Climate change resources	This resource contains a host of tools and information on climate change, climate data and projections, guidance documents, and a climate services support desk.
Canadian Climate Institute (formerly Canadian Institute for Climate Choices)	<a href="#">Due North: Facing the Costs of Climate Change for Northern Infrastructure</a>	Climate change impacts and costing in Canada's North	This resource identifies the impacts of climate change and the associated infrastructure costs in Canada's North.
Canadian Climate Institute (formerly Canadian Institute for Climate Choices)	<a href="#">The Health Costs of Climate Change: How Canada can Adapt, Prepare, and Save Lives</a>	Health related climate change risks and costs	This resource identifies the major climate change impacts that will impact Canadians, how existing inequity will be magnified, and the cost on Canada's healthcare system.
Canadian Climate Institute (formerly Canadian Institute for Climate Choices)	<a href="#">Tip of the Iceberg: Navigating the Known and Unknown Costs of Climate Change for Canada</a>	Climate change costing and adaptation solutions	This resource addresses the major impacts of climate change and extreme weather events in Canada and the associated costs of those impacts.
Canadian Climate Institute (formerly Canadian Institute for Climate Choices)	<a href="#">Underwater: The Costs of Climate Change for Canada's Infrastructure</a>	Climate change costing	This resource focuses on three types of climate change impacts on Canada's infrastructure: flooding of homes and buildings, damage to roads and rails, and impacts on Canada's electricity grids.

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Canadian Climate Institute (formerly Canadian Institute for Climate Choices)	<a href="#">Damage Control: Reducing the costs of climate impacts in Canada</a>	Climate change costing and proactive adaptation	This final report brings together research from the Costs of Climate Change series to provide a comprehensive assessment of how climate change is impacting Canada's economy and livelihood of Canadians. The report also builds the business case for proactive adaptation and recommendations for government action.
City of Calgary	<a href="#">Valuation of Natural Assets</a>	Natural asset valuation	This resource identifies and evaluates the number of natural assets and infrastructure in the City of Calgary.
Environment and Climate Change Canada	<a href="#">Climatedata.ca</a>	Climate data and projections	This portal contains national, provincial, and downscaled climate data for localities across Canada which can be adjusted to take into account various emissions scenarios and their effects through time.
Environment and Climate Change Canada	<a href="#">Map of Adaptation Actions</a>	Climate change adaptation actions	The Map of Adaptation Actions houses a collection of climate change adaptation case studies that may be useful to decision-makers and those taking action on climate change adaptation.
Federation of Canadian Municipalities	<a href="#">Measuring the Value of Natural Assets</a>	Natural asset evaluation	This case study on the City of Saskatoon's Natural Capital Asset Valuation pilot project to assign measurable value to its natural assets.
Financial Accountability Office of Ontario (FAO)	<a href="#">Costing Climate Change Impacts to Public Infrastructure Project</a>	Climate change costs and impacts	This FAO project provides the detailed results of the cost assessment of the impacts of changes in extreme rainfall, extreme heat, and freeze-thaw cycles on public buildings and facilities in Ontario.

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Financial Accountability Office of Ontario (FAO)	<a href="#">FAO Costing Dashboard</a>	Climate change and extreme weather costs and impacts	This dashboard shows the key portfolio-wide results of the climate change impact cost assessment for provincial and municipal assets.
Financial Accountability Office of Ontario (FAO)	<a href="#">Climate Change Data Sheets for Ontario</a>	Climate change data and projections	This database provides localized historical and projected climate indices across Ontario.
Flood Smart Canada	<a href="#">Flood Smart Canada</a>	Nation-wide flood risk and flood mapping	This resource provides access to a number of resources to address flood risk in Canada including emergency preparedness, floodplain mapping, and provides informational and educational materials, infographics, toolkits, and more.
Institute for Catastrophic Loss Reduction (ICLR)	<a href="#">Institute for Catastrophic Loss Reduction</a>	Climate change and extreme weather events	ICLR is a resource centre for multidisciplinary disaster prevention research and communication.
Institute for Catastrophic Loss Reduction (ICLR) and the University of Western Ontario	<a href="#">Intensity-Duration-Frequency (IDF) Tool</a>	Climate change precipitation projections	This publicly available web-based IDF tool enables communities to update and adapt local extreme rainfall statistics to climate change.
Insurance Bureau of Canada (IBC)	<a href="#">Insurance Bureau of Canada</a>	Climate related insurance data	IBC compiles data, resources, climate projections, and reports on climate related disasters.
Natural Resources Canada	<a href="#">Changingclimate.ca</a> <a href="#">Canada's Changing Climate Report (2019)</a>	National and provincial climate change projections, impacts, risks, and costs	Canada's Changing Climate suite of reports includes national and regional assessments of how climate change will affect the health, communities, environment, and economy of Canadians.

<b>Produced By</b>	<b>Resource/Tool</b>	<b>Topic</b>	<b>Description</b>
Natural Resources Canada	<a href="#"><u>Canada in a Changing Climate: National Issues Report</u></a>	National climate change projections, impacts, risks, and costs	This resource provides a national perspective on how climate change is impacting Canadian communities, environment, and economy, and how Canada is adapting.
Natural Resources Canada	<a href="#"><u>Canada in a Changing Climate: Regional Perspectives Report</u></a>	Regional climate change projections, impacts, risks, and costs	This resource provides a regional perspective on how climate change is impacting Canadian communities, environment, economy, and how each region is adapting.
Natural Resources Canada	<a href="#"><u>Health of Canadians in a Changing Climate: Advancing Our Knowledge for Action</u></a>	National climate projections and their associated impacts to human health.	This resource provides a national perspective on the effects of climate change on health and health systems, populations most at risk of these effects, and the adaptation measures being taken in Canada.
Ontario Ministry of Environment, Conservation, and Parks	<a href="#"><u>Ecosystem Service Values</u></a>	Natural asset valuation	This resource examines two approaches to quantifying and assessing ecosystem services and their values in and around provincial parks in Ontario.
Public Safety Canada	<a href="#"><u>The Canadian Disaster Database (CDD)</u></a>	Historical climate disaster information	The CDD contains detailed disaster information on more than 1,000 natural, technological and conflict events (excluding war) that have happened since 1900 at home or abroad and that have directly affected Canadians.
Prairie Climate Centre	<a href="#"><u>Climate Atlas of Canada</u></a>	Climate data and projections	The Climate Atlas of Canada contains national, provincial, and downscaled climate data for localities across Canada which can be adjusted to take into account various emissions scenarios and their effects through time.

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University of Western Ontario and the Institute of Catastrophic Loss Reduction	<a href="#">Intact Centre on Climate Adaptation</a>	Climate change impacts and costing analysis	The Intact Centre on Climate Adaptation (Intact Centre) is an applied research centre with a national focus within the Faculty of Environment at the University of Waterloo. The Intact Centre works with homeowners, communities, governments and businesses to identify, and reduce, the impacts of extreme weather and climate change.
Climate Change & Climate Impacts Research Group at York University	<a href="#">Ontario Climate Data Portal</a>	Climate data and projections	The Ontario Climate Data Portal provides historical and future climate data across a host of climate indices and scenarios.
Municipal Natural Assets Initiative (MNAI)	<a href="#">What Are Municipal Natural Assets: Defining and Scoping Municipal Natural Assets: Decision-Maker Summary</a>  <a href="#">Developing Levels of Service for Natural Assets: A Guidebook for Local Governments</a>	Natural (Green) Infrastructure, Natural Assets, Ecosystem Services	The MNAI provides guidance and best practices on natural asset management. The guidebooks aim to support local governments with opportunities to better integrate natural asset management into asset management policies, plans and programs.