

HOMEOWNER FLOOD RISK REDUCTION RESOURCE LIST

Introduction to the Home Flood Protection Program

The Home Flood Protection Program is an educational service designed to help homeowners reduce their risk of basement flooding and minimize damage if flooding occurs. The program is developed by the Intact Centre on Climate Adaptation (ICCA) at the University of Waterloo and is being piloted in Burlington, Ontario.

Introduction to the Homeowner Flood Risk Reduction Resource List

This Resource List has been created to provide a starting point for homeowners to learn about basement flood protection and to support the uptake of practical action to reduce flood risk. Most of the resources will be helpful to homeowners across Ontario. Specific resources have also been collected to support homeowners in Burlington, Ontario.

The list has been compiled by staff at the Intact Centre on Climate Adaptation (ICCA) to provide online water damage risk reduction resources that meet the following criteria:

1. Resources are written at a level of detail and technical language appropriate for the average homeowner to find easy to use.
2. Resources have been developed by reputable government, non-profit, and commercial sources.
3. All videos and factsheets have been selected for their educational value and do not directly promote any one product or service

Help Us Improve the Resource List

We welcome your input! If there is a resource that meets our criteria that you would like to see added, please share it with us. All requests can be directed to Janet Szydowski, Home Flood Protection Program Assistant at floodprotect.info@uwaterloo.ca.

***Please Note:** The Intact Centre on Climate Adaptation is providing this list of online resources for the convenience of interested homeowners. The Intact Centre on Climate Adaptation is in no way providing advice of any kind and does not endorse or recommend any of the services or products identified below.*



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LOCAL RESOURCES	
Halton Region and City of Burlington	
<u>Enhanced Basement Flooding Prevention Subsidy Program</u>	Halton Region
<u>Basement Flooding – Emergency Preparedness (Website)</u>	Halton Region
<u>Halton Region Downspout Disconnection Program (Factsheet)</u>	Halton Region
<u>After the Flood- Homeowners Checklist (Factsheet)</u>	Halton Region
<u>Flood Assistance (Website)</u>	City of Burlington, Halton Region
<u>Flood Prevention Home Check-Up (Website)</u>	City of Burlington
<u>By-laws (Website)</u>	City of Burlington
<u>Private Drains By-law (Website)</u>	City of Burlington
<u>Site Alteration By-law (Website)</u>	City of Burlington
<u>Public Tree By-law (Website)</u>	City of Burlington
<u>Storm Sewer Discharge By-law (Website)</u>	City of Burlington

Key Takeaway Messages	
<u>Understanding Different Types of Water Damage at Your Home</u>	Home Flood Protection Program

Top 10 Actions You Can Take To Reduce Your Risk of Basement Flooding	Home Flood Protection Program
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FLOOD RISK REDUCTION RESOURCES FOR OUTSIDE YOUR HOME	
Storm Drains and Proper Drainage	
Storm Water Drainage in the City of Burlington (Factsheet)	City of Burlington
Home Drainage and Causes of Basement Flooding (Factsheet)	City of Toronto
Storm Drain Survival Kit (Factsheet)	City of Lethbridge, Alberta
Storm Drain Clean Up (Video)	City of Lethbridge, Alberta
Adopt a Storm Drain (Factsheet)	City of Lethbridge, Alberta
Lot Grading and Overland Drainage	
Bylaws Enforcement Grading & Drainage/Site Alteration (Factsheet)	City of Burlington
Lot Grading and Drainage (Factsheet)	City of Hamilton
Lot Grading (Video)	City of Hamilton
Lot Drainage Issues (Video)	Institute for Catastrophic Loss Reduction
Trees	
Trees Near the House? Foundations Beware! (Factsheet)	Quebec CAA
Landscaping and Overland Drainage Around Your Home – Gardens and Lawn	

How to Build a Rain Garden (Factsheet)	This Old House
Creating a Rain Garden (Factsheet)	Credit Valley Conservation Authority
Maintaining Your Rain Garden (Factsheet)	Rutger's
Rain Gardens: Design and Maintenance (Factsheet)	Canadian Mortgage and Housing Corporation
Native Plants for Your Rain Garden (Factsheet)	Toronto Region and Conservation
Rain Garden Case Study: St John's Parish, Kitchener Ontario (Video)	REEP Green Solutions
Soak It Up! How to Install a Soak-away Pit and Increase Permeability of Hard Surfaces (Factsheet & Video)	REEP Green Solutions
Outdoor Water Management – Permeable Paving and Soak-away Pits (Video)	REEP Green Solutions.
Infiltration Galleries (Video)	REEP Green Solutions.
The Benefits of Bioswales, Permeable Pavement, Rain Gardens, Downspout Disconnection and Green Infrastructure (Factsheet)	Green Infrastructure Ontario Coalition
Permeable Paving	
Permeable Pavement (Factsheet)	City of Edmonton
The Benefits of Bioswales, Permeable Pavement, Rain Gardens, Downspout Disconnection and Green Infrastructure (Factsheet)	Green Infrastructure Ontario Coalition
Soak It Up! How to Install a Soakaway Pit and Increase Permeability of Hard Surfaces (Factsheet & Video)	REEP Green Solutions
Outdoor Water Management – Permeable Paving and Soakaway Pits (Video)	REEP Green Solutions.

Eaves Troughs and Downspouts	
Halton Region Downspout Disconnection Program (Factsheet)	Halton Region
Downspout Disconnection Subsidy (Factsheet)	Halton Region
Disconnecting Downspout DIY (Factsheet)	City of Toronto
Are Your Gutters and Downspouts Doing Their Job? (Factsheet)	Quebec CAA
Cleaning Gutters and Downspouts: An Essential Task! (Factsheet)	Quebec CAA
How to Install a Rain Gutter (Video)	This Old House
How to Drain Downspout Water Flow Away From a House (Video)	This Old House
Proper Water Drainage (Factsheet)	Mike Holmes, Make it Right
How to Clean Gutters and Downspouts (Factsheet)	Do it Yourself.com
Rain Barrels	
Rain Barrel Assembly, Installation and Maintenance (Video & Factsheet)	Rainbarrel.ca
Rain Barrels (Video)	REEP Green Solutions
How to Make a Rain Barrel (Video)	Today's Homeowner
Foundation Drain and Sewer Lateral Maintenance	
Sanitary Lateral Lining and Repair Subsidy (Factsheet)	Halton Region
Foundation Drains: Problems and Solutions (Factsheet)	CAA Quebec

Getting to Know Your Foundation Drain System - Life Expectancy and Maintenance (Factsheet)	Square One Insurance
Sewer Backups and Basement Flooding (Factsheet)	Halton Region
Sewer and Sewer Laterals: How Can I Prevent Backups in My Sewer Lateral? (Factsheet)	Municipality of Cornwall Ontario
Sewer Lateral Blockages: What Should You Do When Your Sewer Lateral Backs Up (Factsheet)	City of Brantford Ontario
Sewer Lateral Blockages FAQ (Website)	City of Brantford Ontario
Understanding Your Sanitary Sewer Lateral (Factsheet)	Sanitary District 1, Kentucky, USA
Foundations and Grading at Foundations	
Bylaws Enforcement Grading & Drainage/Site Alteration (Factsheet)	City of Burlington
How to Repair a Crack in a Concrete Foundation (Video)	This Old House
Infrared Thermograph: High Tech Inspection to Detect Water Infiltration in Foundation or Roof (Factsheet)	Quebec CAA
How to Grade Around a Foundation (Video)	This Old House
How to Waterproof a Basement (Video)	This Old House
Efflorescence (Factsheet)	Basement Questions
Efflorescence: How to Recognize It and Take Action – If Need Be (Factsheet)	Quebec CAA
Repairing Cracks in Your Foundation	
How to Repair a Crack in a Concrete Foundation (Video)	This Old House

How to Recognize a Problematic Foundation Crack and What to Do About It (Article)	National Post
Infrared Thermograph: High Tech Inspection to Detect Water Infiltration in Foundation or Roof (Factsheet)	Quebec CAA
Exterior Water Sources	
Winterizing Your Hose Bibs (Video)	The Neighborhoods of EYA
Basement Windows and Window Wells	
How to Seal Basement Windows (Factsheet)	Do It Yourself
Exterior Sealants to Guard Against Damaging Infiltrations (Factsheet)	Quebec CAA
Weather Stripping Basement Windows (Factsheet)	Natural Resources Canada
Getting to Know Your Window Wells (Factsheet)	Square One Insurance

FLOOD RISK MANGEMENT RESOURCES FOR INSIDE YOUR HOME	
Drain Maintenance in Your Home	
Green Methods for Indoor Drain Maintenance (Factsheet)	David Suzuki Website
How to Clear Any Clogged Drain (Factsheet)	This Old House
Blocked Drain (Factsheet)	Quebec CAA
Sewer Lateral and Floor Drain	
Sanitary Lateral Lining and Repair Subsidy (Factsheet)	Halton Region

Blocked Drain (Factsheet)	Quebec CAA
Drains and Foundation: Prevention or Repair? (Factsheet)	Quebec CAA
Backwater Valve	
Installation of Backwater Valve Subsidy (Factsheet)	Halton Region
Backwater Valves: How They Work and General Maintenance Practices (Video)	Cranberry Township
Avoid Sewage Backflow With a Backwater Valve (Video)	Insurance is Evolving
The Backwater Valve: A One-Way Trip for Wastewater (Factsheet)	Quebec CAA
Importance of Backwater Valves (Video)	HGTV, Holmes Makes it Right
Focus on Backwater Valves (Factsheet)	Institute for Catastrophic Loss Reduction
Backwater Valve (Factsheet)	Insurance Bureau of Canada
Sump Pumps and Pits Maintenance	
Weeping Tile Disconnection and Installation of Sump Pump Subsidy (Factsheet)	Halton Region
Focus on Sump Pump Systems (Factsheet)	Institute of Catastrophic Loss Reduction
How to Keep Your Basement Dry With a Sump Pump (Video)	Insurance is Evolving
Simple Sump Pump Maintenance (Video)	Central Insurance
How to Install a Battery Operated Backup Sump Pump (Video)	This Old House
Indoor Plumbing and Fixtures Maintenance	

Preventing Water Damage: Appliance Maintenance and Water Shut-Off Valve (Video)	Insurance is Evolving
How to Unclog a Toilet and Keep the Problem From Recurring (Factsheet)	Quebec CAA
Plumbing Defects and How to Prevent Them (Factsheet)	Quebec CAA
Flushing Your Water Heater (Factsheet)	Quebec CAA
How to Repair a Crack in a Concrete Foundation (Video)	This Old House
Finished Walls and Floors	
The Right Flooring for Your Basement (Factsheet)	Money Sense
Basement Floor Finishes: Your Options (Factsheet)	Quebec CAA
Floor Covering Options (Factsheet)	Quebec CAA
Checklist: Moisture Problems in the Basement (Factsheet)	Canadian Mortgage and Housing Corporation
Basement Waterproofing Options (Factsheet)	HGTV
Storage and Limiting Indoor Humidity	
Moisture Problems in the Basement (Factsheet)	Canadian Mortgage and Housing Corporation
A Guide for Understanding and Fixing Interior Moisture Problems in Housing (Factsheet)	Canadian Mortgage and Housing Corporation
Mold: Get Rid of It for Good (Factsheet)	Quebec CAA

ADDITIONAL RESOURCES

What to Consider Before You Start a Project

Call Before You Dig (Website)	City of Burlington
Call Before You Dig (Website)	OntarioOneCall
Bylaws Enforcement Grading & Drainage/Site Alteration (Factsheet)	City of Burlington
Do I Need a Building Permit? (Website)	City of Burlington
How to Find a Reliable Contractor	
Your Rights When Starting Home Renovations and Repairs (Factsheet)	Province of Ontario
Need Work Done? Here's How to Find a Reliable Contractor (Factsheet)	Quebec CAA
Finding a Contractor for Small Jobs (Factsheet)	Quebec CAA
Do Not Sign Without Reading the Fine Print (Factsheet)	Quebec CAA
How to Hire a Contractor (Factsheet)	Mike Holmes, Make it Right

Understanding Water Damage Insurance

Preventative Tips to Avoid Water Damage (Video)	Insurance is Evolving
Renovations and Home Insurance: Check Your Coverage Options (Factsheet)	Quebec CAA
Flood Insurance: What is Covered? What is Excluded (Factsheet)	Square One Insurance

Handbook for Reducing Basement Flooding (Factsheet)	Institute for Catastrophic Loss Reduction
Does Your Home Need a Flood Prevention Tune Up? (Factsheet)	Intact Centre on Climate Change Adaptation
Emergency Preparedness	
Sandbagging Demonstration (Video)	State Emergency Service - Australia
Floodproofing (Website)	Government of Canada
Proper Use of Sandbags (Factsheet)	District of Columbia
Helping Canadians Prepare for a Flood (Website)	Flood Smart Canada
Flood Facts Canada (Factsheet)	Government of Canada
Being Prepared for a Flood(Factsheet)	Government of Canada
Emergency Preparedness Guide for People with Disabilities	Government of Ontario
After a Flood – A Homeowner’s Checklist (Factsheet)	Canadian Mortgage and Housing Corporation
Flood Recovery Guide (Factsheet)	Canadian Red Cross