

**Forestry Adaptation
Practitioners' Network
(FAPN)**

Community Roundtable

July 24, 2023



Today's Agenda

1. Welcome
2. About the FAPN
3. Meet and greet
4. Cheryl Evans, Intact Centre on Climate Adaptation
5. Member Projects and Questions
6. Wrap-up & next steps

Meet the FAPN Management Team!



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The Forestry Adaptation Practitioners' Network (FAPN)

An Overview



History & Background

- Previously known as The Forestry Adaptation Community of Practice or FACoP, this hub officially launched in 2012.
- The CCFM mandate concluded in 2012 that part of their goal is to create a self-sustaining community of forest adaptation practitioners that can learn from each other.
- A community of practice is a “group of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly” – Etienne Wenger
- In 2022, we redeveloped our platform and launched the Forestry Adaptation Practitioners' Network

Communit  de pratique
ACC/CCA
Community of Practice

CCACoP FACoP LSWCoP

Welcome to the
Forestry Adaptation Community of Practice (FACoP)
...Sharing information and best practices on climate change vulnerability and adaptation in
Canada's forest sector

Already a member?
Email Address
Password
Remember me
[Sign in](#)

Interested in joining?
Membership to the FACoP is FREE! Apply now to become a member of this growing sub-community.
[Create an account](#)

What is the FACoP?
The FACoP is a sub-community of the Climate Change Adaptation Community of Practice (CCACoP) and is dedicated to persons interested in climate change impacts and adaptation options for forestry in Canada. It provides the means for which forest industry members, forest science researchers, forest policy makers and others can share information and best practices on current activities in the area of climate change vulnerability and adaptation in Canada's forest sector.
A CCACoP 'sub-community' has the same functionalities as the main CCACoP site, but it provides a private space where certain members can discuss and share the latest research and information around a specific topic. Therefore, not only do FACoP members have access to the larger CCACoP site and all of its resources, but they also benefit from participating in a smaller, more defined interest group.

Who can join the FACoP?
The FACoP is comprised of forest industry members, forest science researchers, forest policy makers and others who are interested in climate change impacts and adaptation options for forestry in Canada.

What exactly is a 'Community of Practice'?
What a great question! Well, as defined by anthropologist Etienne Wenger, a **community of practice** is a "group of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly".
Furthermore, communities of practice are about the **quality of conversations and knowledge sharing** that they foster, and it is through the process of sharing information and experiences with the group that the **members learn from each other** and have an opportunity to develop themselves personally and professionally.

What can you find on the FACoP?
• The latest news articles relating to climate change, adaptation and forestry;
• Upcoming forestry events happening across Canada and internationally;
• An online library with hundreds of resources on climate change impacts and adaptation in the forestry sector;
• Discussion forums on member-driven topics;
• Webinars featuring a variety of forestry and climate change experts from across Canada and internationally, as well as access to recordings of past webinars;
• A wiki that allows members to co-create documents;
• Links to online forestry and adaptation resources from across Canada and around the globe; and
• Regular emails to keep you up-to-date on the latest FACoP activity.

FACoP Supporters
The FACoP is made possible with support from the Canadian Council of Forest Practitioners.

Our Purpose

- The FAPN is one of many growing practitioners' networks housed within CanAdapt and is dedicated to persons interested in climate change impacts and adaptation options for forestry in Canada.
- The FAPN is dedicated to sharing information and best practices on climate change vulnerability and adaptation in Canada's forestry sector.
- We strive to offer a variety of options to participate in this network in order to **build your practice** and **share your expertise** and **lessons learned** with other practitioners.



Our Online Platform

Forestry Ac
CanAdapt
Dashboard
Posts
Filters
My Posts
Starred / Doing
My Drafts
TYPE
Resource
Update
Event
Article
Job
Action
Poll
TOPIC
Sustainable Forests
Forests
Adaptation
Forest
Climate Action

Canada	191
Alberta	24
British Columbia	64
Manitoba	1
New Brunswick	14
Newfoundland and Labrador	1
Northwest Territories	1
Nova Scotia	9
Ontario	50
Prince Edward Island	4
Quebec	9
France	1
Nepal	1
Senegal	1
United Kingdom	1
United States	6

Resource Library

Filters

- My Posts
- Starred / Doing
- My Drafts

TOPIC:

- Sustainable Fore
- Forests
- Adaptation
- Climate Action
- Member Spotlight
- Conservation
- Forest
- Cities
- Climate Change
- Climate Finance

AUTHOR:

- Brook Tessema
- Claire Sanders
- Megan Symonds
- Suzanne Seiling

Post an update

- Add an action
- Post an update
- Add an idea
- Add a survey
- Add an event
- Add a resource
- Ask for help
- Add a job
- Add a grant

Generate with AI

Save as Draft

Post

CTRL+ENTER to Submit

2025 Online Micro-Certificates Information

Session
Jul 27
Designed for working professionals, UBC Forestry's wide array of programs offers...

People and Pines: Human Impacts on 5-Needle Pines
Oct 11
The annual Science and Management conference brings together researchers, manage...

AUTHOR:
Brook Tessema

ENGAGEMENT:
Any and all
0 people
1-5 people
5-20 people
20-50 people

Network Features & Activities

Features:

- Directory
- Direct Messaging
- Topics
- Surveys
- Actions
- Updates
- Resource Library
- Job Board
- Event Calendar
- Projects

Activities:

- Webinars (3)
 - Adaptation in Action
 - Forestry & Climate Tools & Services
- Round-up emails (bi-weekly)
- Panel Discussion (1)
- Resource Library (additions by our Team)
- Community Roundtables (Fall & Winter)

Collaborating with FireSmart™ Canada to Strengthen Community Wildfire Resilience



Prepared for:
Forestry Adaptation Practitioner's
Network
Climate Risk Institute

Prepared by:
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July 24, 2023

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INTACT CENTRE
ON CLIMATE ADAPTATION

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AGENDA

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- Introduction to the Intact Centre
- Community engagement tactics to boost climate resilience
- Working with FireSmart Canada
 - Infographics
 - Door to door climate conversations
 - Technical checklists
 - Professional training programs
 - Climate resilience scorecards
- Questions



**WILDFIRE-RESILIENCE BEST-PRACTICE
CHECKLIST FOR HOME CONSTRUCTION,
RENOVATION AND LANDSCAPING**

INTACT CENTRE ON CLIMATE ADAPTATION

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- Applied climate adaptation research centre with a **national focus**
- Headquartered at University of Waterloo
- Launched in 2015 with gift from Intact Financial Corporation*

ICCA has two main goals:

1. To change the national conversation about climate change to address **climate adaptation**
2. To work with **residents, communities and businesses** to reduce risks associated with climate change and extreme weather events (**flood, wildfire, extreme heat**)



Intact Centre on Climate Adaptation,
University of Waterloo

*The Intact Centre operates independently of all funders and does not benefit from the sale of any products or services.

COMMUNITY ENGAGEMENT TACTICS TO BOOST HOME CLIMATE RESILIENCE ONE STEP AT A TIME

Boosts to Achieve Progress

A series of boosts are required to help residents progress from apathy through a series of self-help actions.

Trusted Advisors are Key

Boosts are most effective when information is provided by trusted advisors.

“Boosts” Required To Move to Next Level

Boosts to Support Progress from Apathy through a Series of Actions

Seasonal maintenance reminders or requirements

Complete Seasonal Maintenance

Do-it-yourself information, contractor lists, subsidies and insurance discounts

Complete Series of One-Time Actions

Targeted risk education campaigns and lot-level risk assessments

Identify Opportunities to Reduce Risks

Community-level risk education campaigns

Raise Awareness of Risks

Do nothing

Inaction

Steps Involved in Progressing from Apathy to Sustained Action

TACTICS TO BOOST PROGRESS FROM AWARENESS TO IDENTIFYING OPPORTUNITIES TO REDUCE RISK



Tactics to Boost Residents from Awareness of Risks to Identifying Opportunities to Reduce Risk

- Self-help infographics
- Risk self-assessments
- Conversations with trusted advisors
- Addressed mail and email from trusted advisors



THREE STEPS TO COST-EFFECTIVE HOME FLOOD PROTECTION

Complete these 3 steps to reduce your risk of flooding and lower the cost of cleanup if flooding occurs. For items listed under step 3 check with your municipality about any permit requirements and the availability of flood protection subsidies. *Applicable only in homes with basements

Step 1: Maintain What You've Got at Least Twice per Year

- Do-It-Yourself for \$0
 - Remove debris from nearest storm drain or ditch & culvert
 - Clean out eaves troughs
 - Check for leaks in plumbing, fixtures and appliances
 - Test your sump pump*
 - Clean out your backwater valve

Step 2: Complete Simple Upgrades

- Do-It-Yourself for Under \$250
 - Install window well covers (where the escape requirements permit)*
 - Extend downspouts and sump discharge pipes at least 2m from foundation
 - Secure valuable and hazardous materials in watertight containers & secure fuel tanks
 - Remove obstructions to floor drain
 - Install and maintain flood alarms

Step 3: Complete More Complex Upgrades

- Work with a Contractor for Over \$250
 - Install window wells that sit 10-15cm above ground and upgrade to water resistant window*
 - Disconnect downspouts, cap foundation drains and extend downspouts to direct water at least 2m from foundation
 - Correct grading to direct water at least 2m away from foundation
 - Install backwater valve
 - Install backup sump pump and battery*

Note: Not all actions will be applicable to each home. Completing these steps does not guarantee the prevention of flooding.

UNIVERSITY OF WATERLOO | INTACT CENTRE ON CLIMATE ADAPTATION | ST. FRANCIS XAVIER UNIVERSITY

For Additional Resources Visit: www.HomeFloodProtect.ca

COLLABORATING WITH TRUSTED ADVISORS TO DELIVER RESIDENTIAL PROGRAMS AND OUTREACH MATERIALS

A resident's trusted advisors may include:

- **Family, friends and neighbours;**
- Faith group & community group leaders;
- Social agencies;
- Contractors;
- Retailers;
- Local governments;
- **Fire departments;**
- Insurance brokers;
- Not-for-profits;
- Real estate agents; and
- Home inspectors.

Information and advice provided by **trusted advisors is given greater “weight” in the decision-making process** than that of **untrusted sources**.

Clarington (ON) Fire Department Open House



Climate-ready home resources shared by the Clarington Fire Department during a community open house, 2019.

THREE STEPS TO COST-EFFECTIVE HOME FLOOD PROTECTION

Step 1: Maintain what you've got at least twice per year

Do-it-yourself, \$0

- Remove debris from nearest storm drain or ditch and culvert.
- Clean out eaves troughs.
- Check for leaks in plumbing, fixtures and appliances.
- Test your sump pump.
- Clean out your backwater valve.

Step 2: Complete simple upgrades

Do-it-yourself, for under \$250

- Install window well covers (where fire escape requirements permit).
- Extend downspouts and sump discharge pipes at least 2 m from foundation.
- Store valuables and hazardous materials in watertight containers and secure fuel tanks.
- Remove obstructions to floor drain.
- Install and maintain flood alarm.

Step 3: Complete more complex upgrades

Work with a contractor, for over \$250

- Install window wells that sit 10-15 cm above ground and upgrade to water resistant windows.
- Disconnect downspouts, cap foundation drains and extend downspouts to direct water at least 2 m from foundation.
- Correct grading to direct water at least 2 m away from foundation.
- Install backwater valve.
- Install backup sump pump and battery.

INTACT CENTRE ON CLIMATE ADAPTATION

Scan the code or click the link for additional resources at www.intactcentre.ca

UNIVERSITY OF WATERLOO

THREE STEPS TO A COST-EFFECTIVE FIRESMART™ HOME

Step 1: Maintain what you've got at least twice per year

Do-it-yourself, \$0 - \$300

- Remove needles, leaves and other debris from gutters, roof surfaces, decks and balconies. Regularly clean vents.
- Remove all combustible ground cover (mulch and plants) within 1.5 m of the house perimeter.
- Remove combustible materials (firewood and lumber) stored within 10 m of house perimeter and under decks.
- Mow the lawn to <10 cm and plant low-growing, well-spaced shrubs and other fire-resistant plants.
- Prune trees to create a 2 m clearance from the ground to the lowest tree branches.

Step 2: Complete simple upgrades

\$300 - \$3,000

- Replace worn or missing weather stripping on all doors including garage doors.
- Add a non-combustible 3 mm screen to all external vents, except dryer vents.
- Create a 15 cm ground-to-siding non-combustible clearance (e.g., install cement board or metal skirting).
- Install non-combustible fencing within 15 m of the house (cement fiber, metal, chain link or stone).
- Install non-combustible ground surfaces within 15 m of the house (inertial soil, rock, concrete or stone).

Step 3: Complete more complex upgrades

Work with a contractor, \$3,000 - \$30,000

- Install Class A fire-resistant roof covering (e.g., cement fibre, metal or asphalt shingles).
- Install non-combustible siding (stucco, metal, stone, cement fibre board).
- Install multi-pane or tempered glass windows and exterior fire rated doors.
- Retrofit all deck components to be fire-rated, with a continuous surface.
- Remove conifer trees that are within 10 m of the house.

Note: not all actions will be applicable to each home. Completing these steps does not guarantee the prevention of fire.

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Scan the code or click the link for additional resources at www.intactcentre.ca

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FireSmart Canada

THREE STEPS TO COST-EFFECTIVE HOME HEAT PROTECTION

Step 1: Plan ahead to keep cool

Do-it-yourself, \$0

- Help vulnerable neighbours, family, friends prepare and arrange to check on them during heat events.
- Sign up for heat alerts on your phone (e.g., WeatherScan).
- Learn how to best use windows and doors to naturally ventilate your home, particularly at night.
- Choose energy efficient lights and appliances that produce less "waste" heat.
- Temporarily arrange to work or sleep in cooler rooms (e.g. basement).

Step 2: Complete simple upgrades

Do-it-yourself, for under \$250

- Plant and maintain shade trees, especially along south, east and west facing walls.*
- Grow plants climbing up your walls, and on decks and balconies.*
- Improve home insulation and air tightness (e.g., draft strips).
- Install blinds, heat-resistant curtains, or films on windows.
- Use portable or ceiling fans that increase air circulation.

Step 3: Complete more complex upgrades

Work with a contractor, for over \$250

- Convert paved areas to vegetation which absorbs less heat and more water.*
- Install a green (vegetated) or reflective roof.*
- Shade windows with outdoor shutters and awnings.
- Install windows and doors that have a low Solar Heat Gain Coefficient (let less heat in).
- Install and maintain a heat pump or air conditioning unit.

* Seek local advice on appropriate native species, and, in places at risk of wildfire, consider [EcoSmart™](#) guidance.

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UNIVERSITY OF WATERLOO

CO-CREATING OUTREACH PROGRAMS AND A TECHNICAL GUIDANCE CHECKLIST

Canadian Red Cross Door to Door Climate Conversations and Impact Data Tracking (2019-2023)



2023 track action taken to improve resilience to flood and wildfire before and after climate conversation with Canadian Red Cross volunteer.

Translating Technical Guidance into a Contractor Checklist (2022)

The image shows the cover of a contractor checklist document. The top half features a photograph of a modern, single-story house with white siding and dark accents, set against a blue sky with light clouds. Below the photo, the title "WILDFIRE-RESILIENCE BEST-PRACTICE CHECKLIST FOR HOME CONSTRUCTION, RENOVATION AND LANDSCAPING" is printed in bold, black, uppercase letters. At the bottom of the cover, there are four logos: FireSmart Canada, Canada Wildfire, INTACT CENTRE ON CLIMATE ADAPTATION, and Intelli-feu Canada.

WILDFIRE-RESILIENCE BEST-PRACTICE CHECKLIST FOR HOME CONSTRUCTION, RENOVATION AND LANDSCAPING

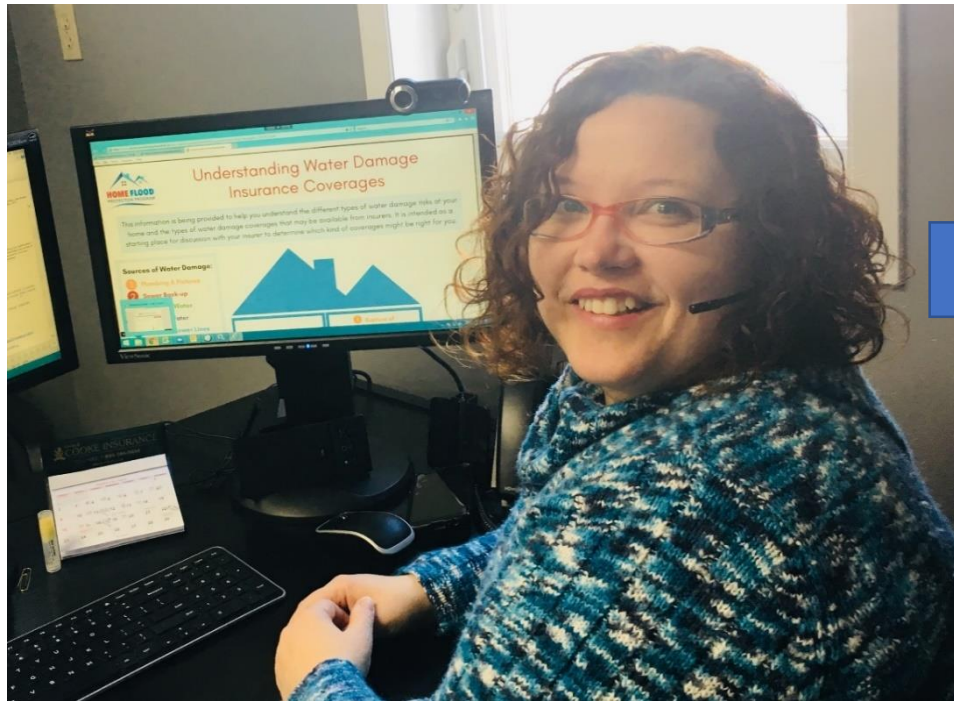


CO-CREATING PROFESSIONAL TRAINING PROGRAMS

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**Intact Centre Professional Flood Protection
Literacy Training Programs**
*(Insurance Brokers, Home Inspectors, Mortgage
Brokers, Realtors, Property Appraisers)*

**FireSmart Training Course for
Landscape Professionals (late fall 2023)**



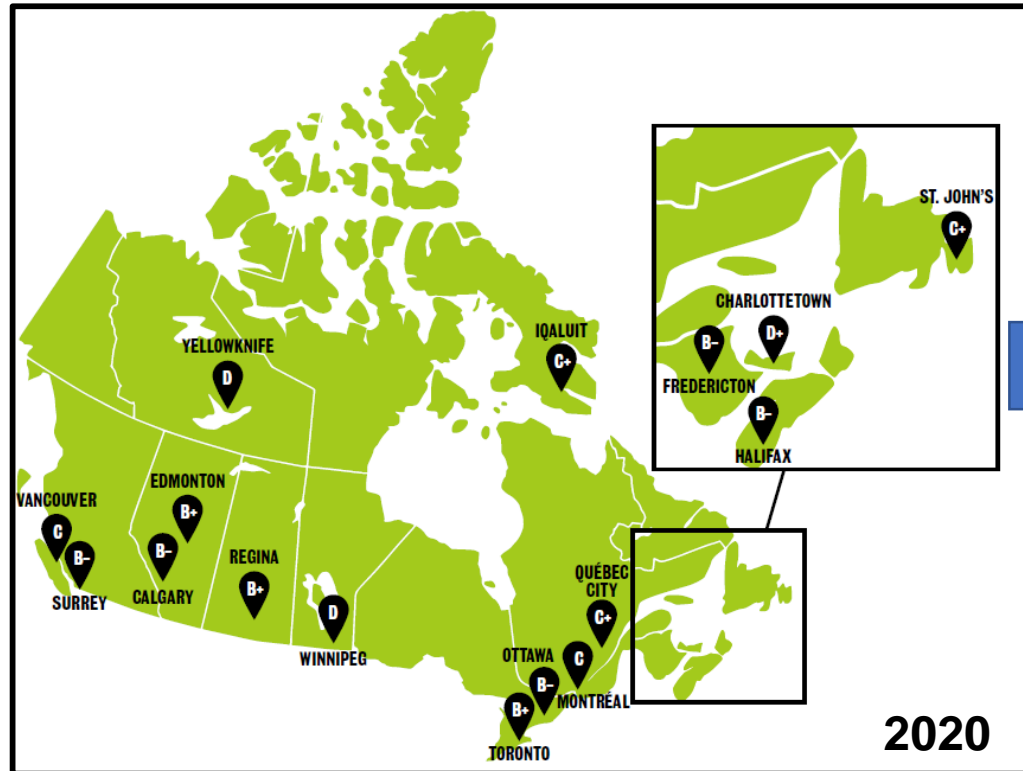
INTACT CENTRE
ON CLIMATE ADAPTATION



PEI Insurance Broker Lori Munn completes online home flood protection training course, 2020

CO-CREATING A COMMUNITY CLIMATE RISK SCORECARD PROJECT

Intact Centre Community Flood Resilience Scorecard- 2015 & 2020



Alberta FireSmart Community Wildfire Resilience Scorecard Project- 2023, 2024

Alberta FireSmart™ Community Wildfire Resilience Scorecard Self-Assessment

Alberta Wildfire Resilient Community Best Practice	Achieve Best Practice?				
	Yes	In Progress	Plan to within 1 year	No Plans	N/A
Assess Risks					
1. Risk Assessment- Complete a Community Wildfire Hazard and Risk Assessment (All communities).	Green	Light Green	Yellow	Red	Grey
Make a Plan					
2. Wildfire Preparedness Guide- Complete a Wildfire Preparedness Guide (Medium and high-risk communities).	Green	Light Green	Yellow	Red	Grey
3. Wildfire Mitigation Strategy- Complete a Wildfire Mitigation Strategy (High-risk communities only).	Green	Light Green	Yellow	Red	Grey
Implement Plan					
Enhance Collaboration and Cooperation					
4. Interagency Cooperation- Form a Local/Regional FireSmart Committee to coordinate implementation of the Wildfire Mitigation Strategy. Committee members include representatives from varied agencies with subject matter expertise to support implementation of all recommendations in the Wildfire Mitigation Strategy (e.g., local/provincial government, industry, critical infrastructure managers, Indigenous rights holders, etc.).	Green	Light Green	Yellow	Red	Grey
5. Interagency Cooperation- Create a Wildfire Mitigation Strategy Implementation Plan with tasks, responsibilities, deadlines, and reporting schedule.	Green	Light Green	Yellow	Red	Grey
6. Interagency Cooperation- Hold regularly scheduled FireSmart Committee meetings to review Wildfire Mitigation Strategy Implementation Plan progress.	Green	Light Green	Yellow	Red	Grey



ADDITIONAL INFORMATION AND RESOURCES

FireSmart Canada
FireSmartCanada.ca

**Intact Centre
University of Waterloo**

Intactcentre.ca
Cheryl Evans

c8evans@uwaterloo.ca



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THREE STEPS TO A COST-EFFECTIVE FIRESMART™ HOME

Step 1: Maintain what you've got at least twice per year
Do-it-yourself: \$0 - \$300

- 1 Remove needles, leaves and other debris from gutters, roof surfaces, decks and balconies. Regularly clean vents.
- 2 Remove all combustible ground cover (mulch and plants) within 3m of the house perimeter.
- 3 Remove combustible materials (firewood and lumber) stored within 10 m of house perimeter and under decks.
- 4 Mow the lawn to <10 cm and plant low-growing, well-spaced shrubs and other fire-resistant plants.
- 5 Trim trees to 7 m clearance from the house and trim tree branches.

Step 2: Complete simple upgrades
\$300 - \$4,000

- 1 Replace worn or missing weather stripping on all doors including garage doors.
- 2 Add a non-combustible 3 mm screen to all exterior vents, except dryer vents.
- 3 Create a 15 cm ground-to-15 cm non-combustible clearance (e.g., install cement boards or metal skirting).
- 4 Install non-combustible fencing within 1.5 m of the house (e.g., steel, brick, masonry, chain-link or stone).
- 5 Install non-combustible ground surface (5m of the house) such as gravel, concrete or pavers.

Step 3: Complete more complex upgrades
Work with a contractor: \$3,000 - \$30,000

- 1 Install Class A fire-resistant roof covering (e.g., concrete fibre, metal or synthetic shingles).
- 2 Install non-combustible siding (stucco, metal, stone, concrete fibre board).
- 3 Install an all-glass or laminated glass window and exterior fire-rated doors.
- 4 Scuff all deck components to be fire-resistant with a continuous surface.
- 5 Remove callus that are within 10 m of the house.

Note: not all actions will be applicable to each home. Completing these steps does not guarantee the prevention of fire.

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Scan the code or click the link for additional resources at www.firesmart.ca

Photo courtesy of Hasser Homes Ltd., <https://hasserhomes.ca/>, 2021 Winner CHBA Net Zero Home Award

WILDFIRE-RESILIENCE BEST-PRACTICE CHECKLIST FOR HOME CONSTRUCTION, RENOVATION AND LANDSCAPING

FireSmart Canada | Canada Wildfire | INTACT CENTRE ON CLIMATE ADAPTATION | Intelli-feu Canada

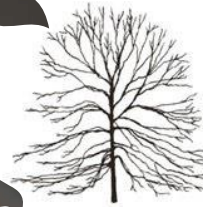
STEP-WISE ACTION TAKEN FOLLOWING THE USE OF VARIOUS OUTREACH TACTICS (FLOOD)

Project Name	Target Audiences	Participation Type	Engagement Description	# Actions	Initial Sample Size	% Completed At Least One Action Before Engagement	% Completed at Least ONE NEW Action 1-3 Months After	% At Least One ADDITIONAL Action Planned 3-6 months
Home Flood Protection Assessments	Home Owners	Voluntary, Self-Selected	Trained Assessor onsite 90 minute session with home owner(s)	80	285	100	79	71
Home Flood Protection Check-Up App	Home Owners, Tenants	Voluntary, Self-Selected	Resident completes assessment themselves on phone or computer	15	1,200	100	75	95
CRC Door to Door Climate Conversations	Home Owners, Tenants	Voluntary, Targeted by Location	Volunteer speaks to resident at the door for 5-10 minutes	8	1,006	88	61*	79*

Note: * Low sample sizes for 1-3 and 3-6 month CRC follow-up survey data limit confidence in results.

Meet and Greet

- *Tell us your...*
- Name
- Organization
- Favorite type of tree or forest



Beech



Cedar



Dogwood



Elm



Fir



Ginkgo



Ilex



Juniper



Kentucky Coffeetree



Linden



Mulberry



Nannyberry



Oak



Pine



Quaking Aspen



Redwood



Tree of Heaven



Umbrella Tree



Viburnum



Weeping Willow



Xanthoxylum

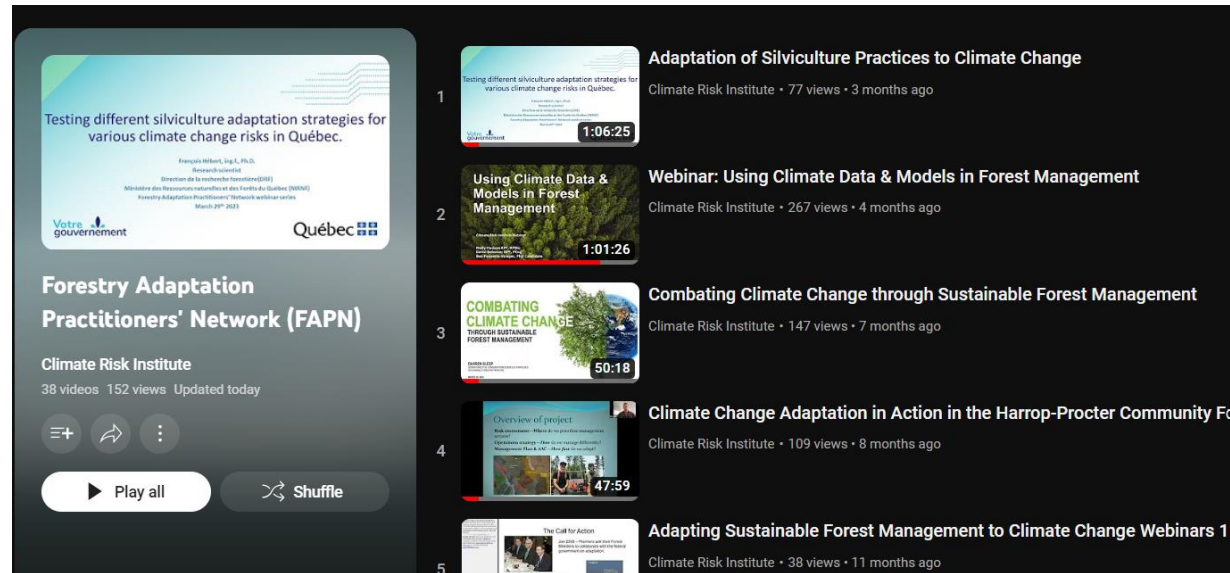
Member Projects

1. **Colin Rankin**, Environment and Climate Specialist, University of Waterloo
2. **Richard Carr**, Canadian Forest Service, Natural Resources Canada
3. **Jade Schofield**, Senior Advisor, Climate Risk and Resilience, WSP Golder
4. **Matt Kurowski**, Research Engineer, Transportation Infrastructure Group, FPIinnovations



Accessing Resources

- Recording and slides will be posted to the FAPN
- Visit the FAPN Youtube channel



https://youtube.com/playlist?list=PLv7Meqq3xQihQxWAXyt_6lYgwEIStboFE

Questions?

Don't hesitate to reach out:

1. Suzanne.seiling@climateriskinstitute.ca
2. Via the FAPN using the 'chat' or 'email' function.

<https://facop.earthnet.org>

