

The National Indigenous Fire Safety Council (NIFSC)

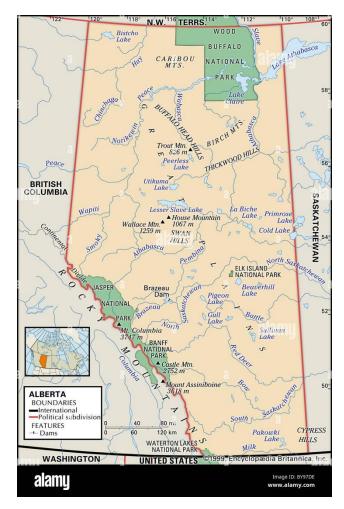
Beth Weckman Hannah Odia Len Garis Simon Lefebvre

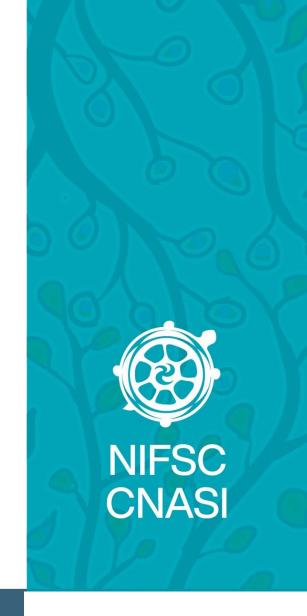




Land Acknowledgement

- I would like take this opportunity to acknowledge the traditional territories of the people of the Treaty 7 region in Southern Alberta
- Métis Nation of Alberta is also located in the city of Calgary







Land Acknowledgement

- The University of Waterloo is located on the Haldimand Tract
- This is traditional territory of the Neutral, Anishinaabeg, and Haudenosaunee peoples







Hannah Odia, Simon Lefebvre

- Public Health Student University of Waterloo
- Long distance runner, lover of music, reading, camping

- Wildfire Research Advisor at NIFSC
- Wildland/Structural, Teacher, EM
- Hunter, trapper, backcountry enthusiast





Overview of Today's Presentation

- Project Introduction
- Literature Review Summary
- Risk Framework Overview
- Historical Wildfire Analysis
- Next Steps
- Anticipated Outcomes





Our Story

 Our team is driven by a passion for environmental stewardship and to Indigenous fire stewardship

Our mission

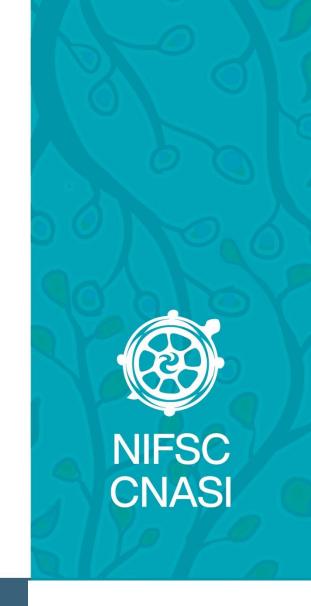
- Respect and recognize Indigenous knowledge
- Establish relationships built on reciprocity and trust
- Spotlight Indigenous perspectives and wisdom





Our Goals

- To reclaim Indigenous fire safety knowledge through:
 - Understanding existing knowledge
 - Embracing cultural practices
 - Centring Indigenous leaders and perspectives
- To **vitalize** community-wide resilience to wildfires by developing resources, including:
 - Visuals
 - Storytelling
 - Print
 - Indigenous-based risk frameworks





Phase 1

- Collect and understand Indigenous WUI fire safety knowledge, practices, and unique community requirements
- Review existing literature, fire/census data, case studies, and other info sources
- Complete a comprehensive literature review





Phase 2:

- Develop WUI Indigenous community risk criteria
- Develop strategies and technologies for vulnerability assessment and community resilience





Phase 3:

- Develop Indigenous-informed WUI fire safety awareness and educational programs
- Create final WUI Indigenous community risk framework/tool
- Empower communities to proactively protect shared values placed at risk by wildfires





Discussion Break

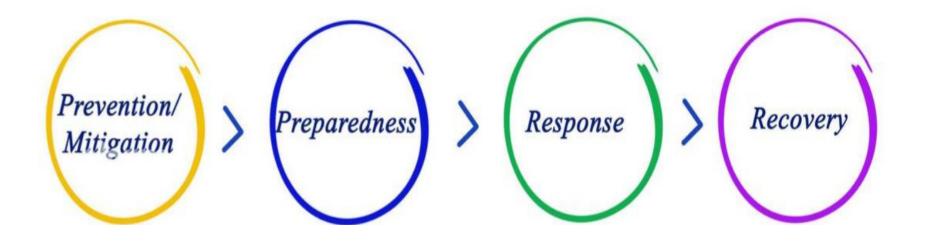
- Are traditional forms of fire management still practiced today in your community?
- Would you be willing to share a story about your experience with traditional practices related to forestry/fire?







Wildfire Risk Awareness







Wildfire Risk Awareness: Prevention



- Historically fire prevention was
 - Influenced by the unique requirements of the region
- However, cultural practices are hindered by:
 - Losses of cultural connection to land
 - Bureaucratic processes managed by non-Indigenous agencies





Wildfire Risk Awareness: Prevention



- Fire is a **life-giving** force:
 - Living part of ecosystem
 - Human/animal/plants are equals
- Fire renews forests/landscapes
 - Cultivates the land
 - Acts as ecosystem maintenance
- Cultural burns are successful at:
 - Mitigating risk
 - Intergenerational teaching





Wildfire Risk Awareness: Preparedness



- Current challenges
 - Inflexible approaches to fire management
 - Undervalued expertise
 - Ineffective communication between communities and partner agencies
 - Financial constraints





Wildfire Risk Awareness: Preparedness



- All communities possess unique knowledge/capacity
- There is a need to empower:
 - Genuine collaboration
 - Indigenous fire knowledge in wildfire research
 - Innovative communityinformed methods of fire management





Discussion Break

- What does meaningful collaboration in fire prevention look like to you? Would you be willing to share a story?
- Would you be willing to share some of your perspectives on risk in your community?







Wildfire Risk Awareness: Response



- Challenges during evacuation
 - Unforeseen problems emerge
 - Evacuee displacement
 - Emotional and mental impact
- Challenges during fire response
 - Confusion among emergency response teams





Wildfire Risk Awareness: Response



- Facilitators
 - Highlighting capacity
 - Utilizing Indigenous knowledge
 - Decentralizing management
 - Reclaiming sovereignty





Wildfire Risk Awareness: Recovery



- Negative long term effects of evacuation
 - Mental health crisis'
 - Loss of place attachment
- Post return issues
 - Confusing/lengthy reimbursement process





Wildfire Risk Awareness: Recovery

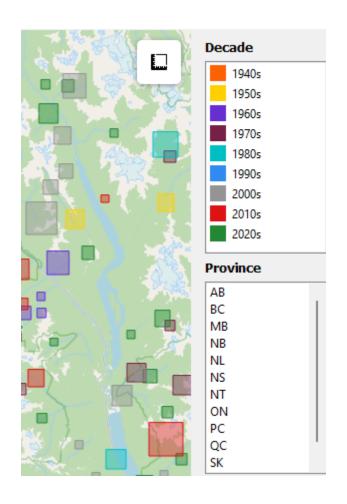


- Communities with past experiences are uniquely informed
 - Necessary to listen and take action based on the experiences/stories shared by communities





Historical Wildfire Analysis



- Historical records show where wildfires may commonly occur
- An application has been created which maps this historical record
- Mapping the fire events enables us to "see" the data and analyze it by the factors that we know (e.g. cause, year occurred)





Risk Factors and Framework

- The creation of a wildfire risk framework was a crucial step in the community selection process
 - Developed using a combination of socio-economic and technical risk criteria
 - Applies at both the individual and population level
- Socio-economic criteria
 - Housing quality (Total # of major and minor repairs needed)
 - House ownership levels
 - Unemployment rates
- Technical criteria
 - Wildfire risk
 - Location





Next Steps

- Connect with communities through real relationships
- Abide and maintain OCAP principles
- Learn from your community about wildfire
- Share indigenous knowledge about fire-safety with other indigenous communities through storytelling
- Help communities build specific wildfire preparedness and evacuation plans





Anticipated Outcomes

- Build long term relationships with WUI Indigenous communities
- Develop Indigenous-informed fire safety awareness and education tools
- Create an Indigenous-informed WUI community fire risk assessment framework





Anticipated Outcomes

- Share adaptable/universal advice
- Spotlight community leadership
- Strengthen local collaborations
- Reintroduce Indigenous fire knowledge to younger generations





Conclusion



National Indigenous Fire Safety Council

Conseil national autochtone de la sécurité-incendie







References

- [1] "Welcome to the Roman Catholic Diocese of Calgary," ROMAN CATHOLIC DIOCESE OF CALGARY, https://www.catholicyyc.ca/ (accessed Oct. 22, 2025).
- [2] Office of Indigenous Engagement, "Territorial land acknowledgement," University of Calgary, https://www.ucalgary.ca/indigenous/cultural-resources/territorial-land-acknowledgement (accessed Oct. 22, 2025).
- [3] Office of Indigenous Relations, "Territorial acknowledgement: Office of indigenous relations: University of waterloo," Office of Indigenous Relations | University of Waterloo, https://uwaterloo.ca/indigenous/knowledge-building/territorial-acknowledgement (accessed Oct. 22, 2025).
- [4] "Indigenous Fire Stewardship Program Gathering Voices Society: Indigenous led Environmental Stewardship Canada," Indigenous Fire Stewardship Program ,
- https://www.gatheringvoices.com/partnerships-and-projects/indigenous-fire-stewardship-program (accessed Oct. 22, 2025).
- [5] M. Essah, W. Pearson, and S. Waters, "'this is not canada': Inside the Tsilhqot'in nation's battle against Taseko Mines," The Narwhal, https://thenarwhal.ca/this-is-not-canada-inside-the-tsilhqotin-nations-battle-against-taseko-mines/ (accessed Oct. 22, 2025).
- Designed by Freepik
- Designed by vectorpouch / Freepik



