HEALTHY LANDSCAPES PROGRAM

HOME | CASE STUDIES | MUSKRATS AND FIRE



Muskrats and Fire

An outreach program that describes how indigenous communities use fire to manage wetland ecosystems

ORGANIZATION:

SASKATCHEWAN TEACHERS' FEDERATION

YEARS:

2019

LOCATION

CUMBERLAND HOUSE, SASKATCHEWAN RIVER DELTA

ECOSYSTEM BASED MANAGEMENT:

PARTNERS: NEIGHBOURS

Stakeholder Engagement

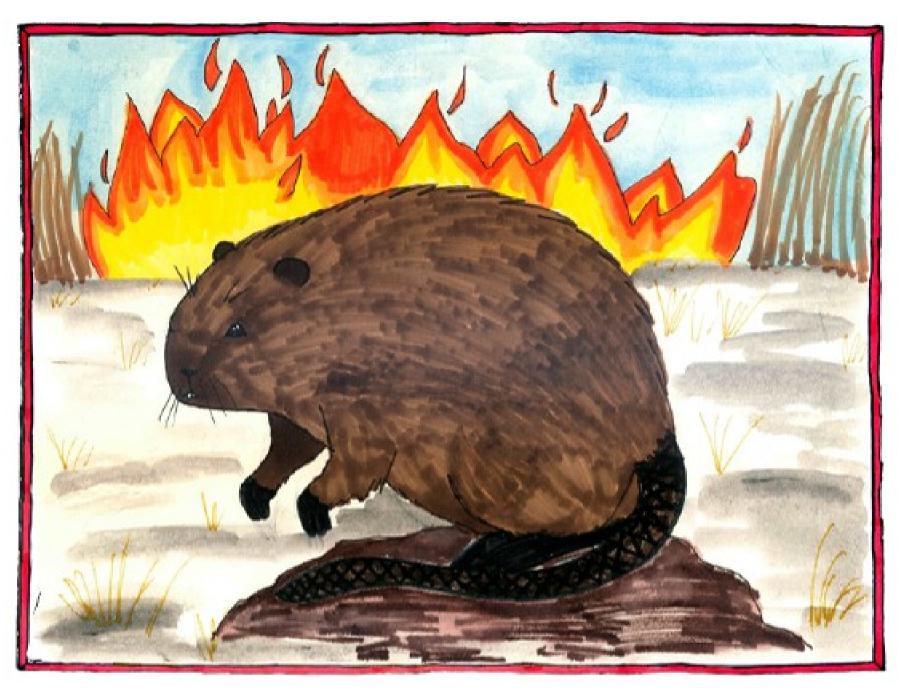
PARTNERS: ROLE OF REGULATORS

This project aims to influence regulators

PROCESS: OPERATIONAL TOOLS

There is much to be learned from Indigenous Peoples' use of fire

DOWNLOAD CASE STUDY



Muskrats and Fire cover image credit: Michela Carrière

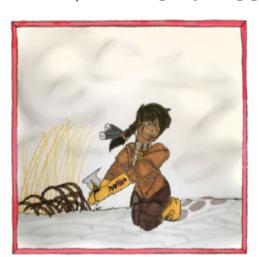
Overview

Taking action on EBM is about the big and little things. Indigenous communities have been using fire for millennia to manage landscapes so that the ecosystem provides important goods and services. River deltas, an important source of fur bearing mammals, are more productive if they are burned seasonally. This is an oral history project that restores this practice, the culture and the ecosystems that serve it.

Research shows that Indigenous people shaped the landscape of North America with fire. Indigenous oral histories and western researchers tells how the Indigenous peoples' practice of setting fires affected wildlife...



Six Eagles stands up and watches his father approach. The tall man has a basket in which he has fire embers. The man reaches into the cone-shaped basket gently lifting glowing embers out and sets



them near the base of the old brown cane grass. Quickly a flame rises up and licks at the next clump of last year's plants. In no time the edge of the small lake is in flames. The burning grasses smell earthy and clean. Black smoke rises signalling the end of the muskrat season and the start of new life in the delta.

Image credit: Michela Carrière

This is a story about the outcomes of my research...



Photo credit: Mathias Elle, Unsplash.com

Innovation

This was a community-based, educational research project that resulted in an illustrated book with school children as an audience. So often the outcome of forestry research is a dry report that speaks to other foresters and perhaps government policy makers. But Renée Carrière knew a different, important group. Understanding that the connection between Indigenous practices and fire were getting lost, she designed her outreach to renew that connection, using a simple story that would reach a critical audience: the Indigenous youth who live in western Canada's river deltas.

If you would like to purchase a copy of Renée Carrière's book, please visit the McDowell Foundation's website.

Discovery

The result of this program was an illustrated children's book that everyone interested in ecosystems, fire and Indigenous traditions should read. Built into the Saskatchewan educational curriculum, this book recounts the practice of using prescribed fire to manage wetland landscapes as a story of an Indigenous family over hundreds of years. It also notes how this practice has been lost, through cultural loss and government regulation. This information is now being taught to students in Saskatchewan schools.

MORE DETAILS

MUSKRATS AND FIRE EBM WHEEL

Where in the wheel?

This is EBM at its most fundamental. Learning how disturbances shape ecosystems and the human role in managing these disturbances as well as the role of regulations that can intentionally or inadvertently stop beneficial practices is key EBM practice. Spring fires that maintain wetland vegetation communities is a key ecosystem disturbance. Spring prescribed burning to manage this disturbance is its EBM surrogate. Educating local communities and governments as to the benefits of this practice is also EBM. At its very roots.

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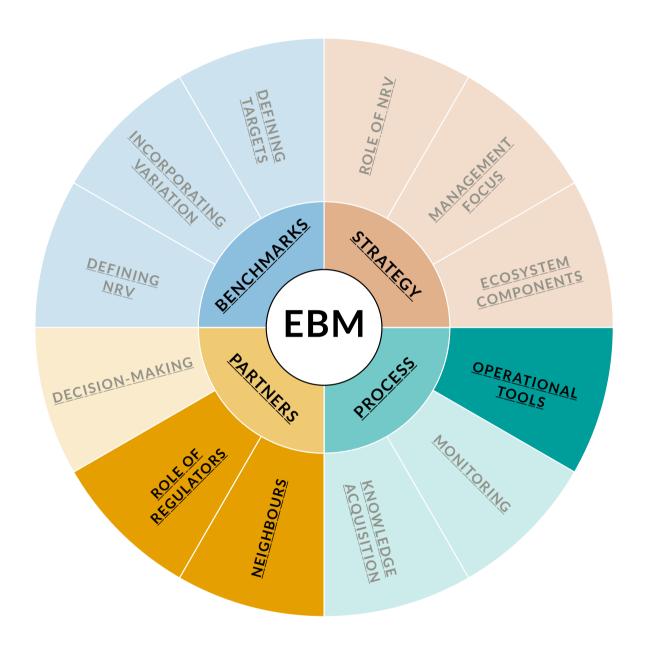
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NEXT STUDY

