

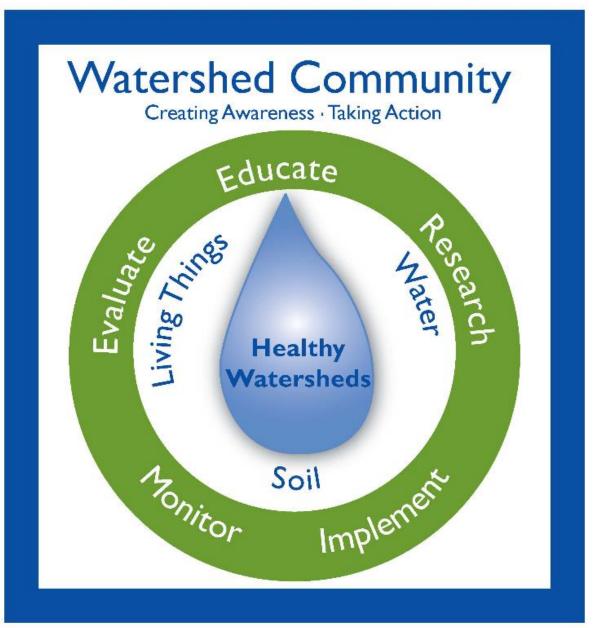
Climate Change Mitigation and Adaption on a Watershed Basis Local initiatives in Ausable Bayfield Watersheds

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Sustainable Huron Committee

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Watershed Management Strategy

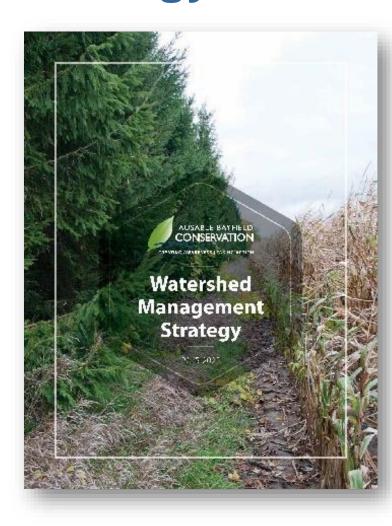
 Continue to monitor hazard processes and respond to new challenges such as the impacts of climate change.

Take ACTION

- SAVE: Regularly review, update policies, procedures and technical guidelines for: natural heritage, hazard lands and stormwater management
- SEED: Wetland and tree planting, Carbon Footprints to Forests
- STEWARD: Urban and rural best management practices

Education

- Youth
- Landowners





A working landscape







Best Management Practices (BMPs)

Rural ACTions

Urban ACTions

- Buffers
- Two-stage ditches
- Grassed waterways
- · Berms
- Minimum/ No-till
- Cover crops

Trap Treat Stormwater ponds

Control

(at/near source)

Avoid

(improve filtration)

- Rain gardens
- Rain barrels
 - Less pavement
 - Natural cover

Initiatives

Monitoring

- Weather and climate monitoring stations
- Climate change monitoring station established in watershed with data retrieval via satellite.
- Go Global Tree monitoring at Bannockburn

Actions

- Tree planting and wetlands in
 2018 highest number of trees
 planted in a decade 57,000 trees
- Carbon Footprints to Forests
- Urban and rural stormwater

Education

- School programs
- Huronview Farm Demonstration



Preparing for flooding, weather variability

Adaptation Strategies:

- Flood Forecasting and Warning
- Flood Plain Management
 - Planning and Regulations

Mitigation Strategies:

- Building resiliency
 - improved soil health
 - wetlands; trees; low-impact development; rain barrels and soak aways; natural infrastructure
 - Conservation areas and forests







Examples of success:

Lake Huron tributary restoration funded by Huron Clean Water Project

January 2020 photo. Successful project! Cattle drinking clean water from farmstead. Pasture remains. No downstream pollution or sedimentation, even in flood events.



Examples of success:

Berms prove their worth during 70 mm rainfall event.

January 11-12, 2020.



- Historic erosion through low draw.
- The berm holds back water for up to 24 hours and slowly releases the water into a field tile. Constructed in 2019 by qualified contractor.
- This field has a cover crop to hold the soil.
- Both projects funded by Huron Clean Water Project.





Lessons Learned: Soil health and climate change



https://www.abca.ca/community/cropscreeks/



Carbon Footprints to Forests

- Pilot project funded by County of Huron
- **Delivered by Maitland Conservation** and Ausable Bayfield Conservation
- Trees planted, maintained locally to capture carbon
- Carbon calculator Easy to use; Ideal for individuals
- Good education
- More uptake needed e.g., Counterbalance travel to meetings; payroll deduction; individuals & businesses; etc.
- footprintstoforests.com



Tree Steps against GHG:

- . Calculate
- 3. Plant





- Departments, ministries, local conservation agencies, local public health, municipalities, community groups, landowners – working together to protect the southeast shore of Lake Huron
- Need to work together; need to continue to support projects that build watershed understanding and resiliency
- healthylakehuron.ca



Thanks for your support!



