A stylized graphic on the left side of the slide depicts a landscape. It features a dark blue, winding river or path that flows from the top left towards the bottom right. Along this path, there are several green pine trees of varying heights. In the middle ground, a small, light-colored house with a dark roof and two white windows is situated on a slight rise. The background is a light blue gradient.

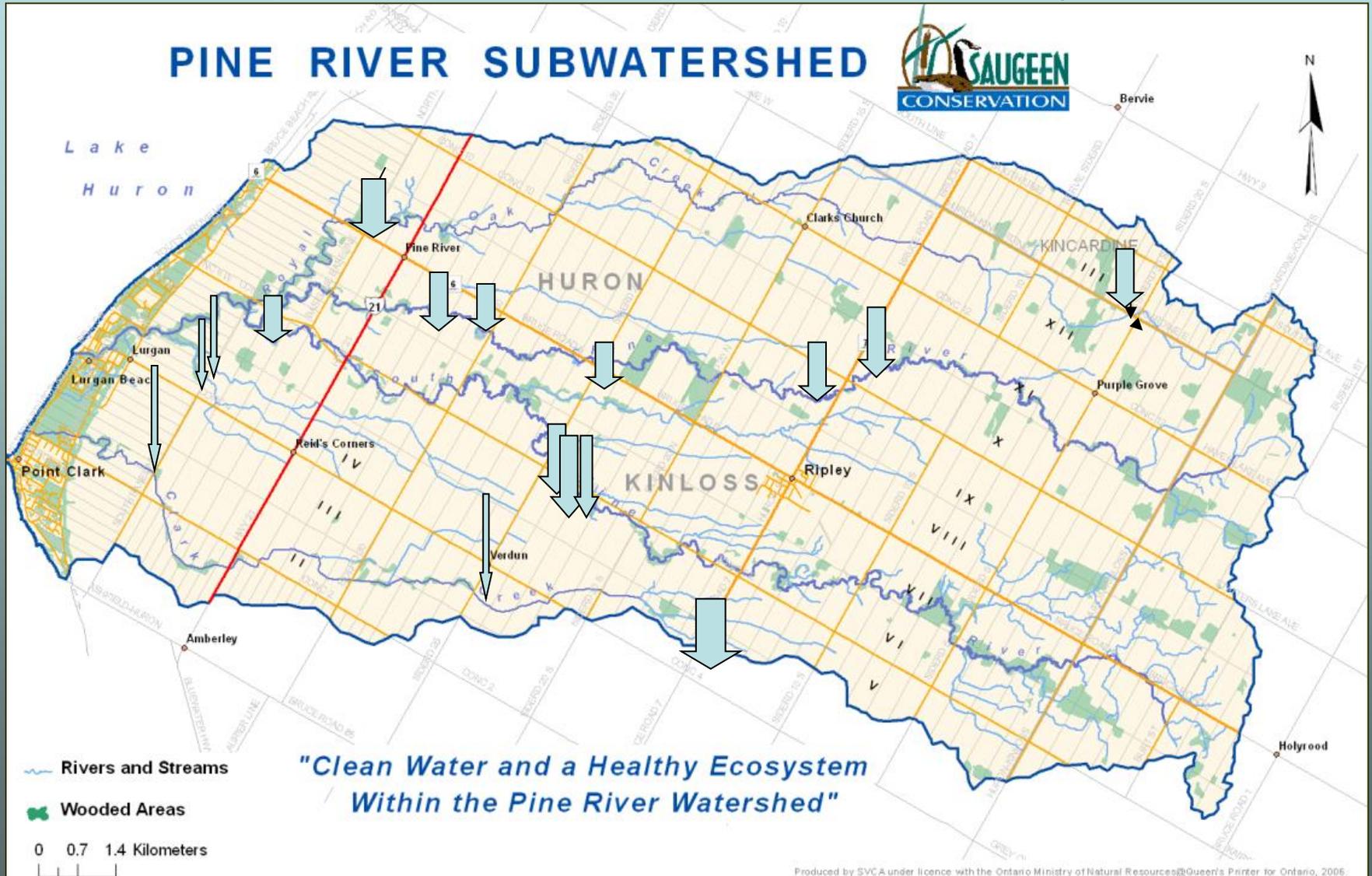
PINE RIVER WATERSHED INITIATIVE NETWORK

Updates on projects from 2006 and 2007

New projects 2008

By Anne Eadie

Map of Watershed Projects





Lake Huron

Land Use – 89% agricultural



Forest cover (7.8%) is mainly along the river.



“Clean water and a healthy ecosystem within the Pine River Watershed”

2003 – 2005 :

- Period of education and discussion but no money so no action on the watershed itself

2006 – 2008:

- Hired Tavira Harford to do Adopt-A-Watershed surveys with both farm and non-farm landowners – very successful with great cooperation from all landowners
- With Adopt-A-Watershed money we decided to focus on exclusion fencing, alternative water sources and tree planting as well as education and promoting the EFP

Project 1 Details

- Started this project under Adopt-A-Watershed in spring 2006
- Volunteer coordinator for 2006 was Anne Eadie
- Fenced about 200 cattle from the Pine River
- Planted and mulched trees in 2006 and 2007

Before



Project 1 in 2008



Vegetation returns on river bank



Wildlife Returns



Water channel narrows and deepens



Cattle in 2008 at Project 1



Project 2

Gail Farrell was the volunteer project coordinator.

Before

Cattle need to cross to far pasture



Crossing installed in 2006



2007



Cattle using the crossing 2007



Project Coordinator 2007 – John Bertrand



Farrell Project details

- Project started in 2007
- Machine planting as well as hand planting
- Hand planting by Ripley 4H leaders and members in 2007
- Exclusion fencing installed
- More trees hand planted by PRWIN committee members in 2008

Before

- Most of the river flats were usually cropped or pastured.
- Donald and Cathy Farrell had always intended to plant more trees in the river flats. They were quite enthusiastic about a project when approached by the Pine River Watershed Committee. The project involved exclusion fencing and planting about 6000 trees. The Farrell's also decided to retire about 5 acres of land along the river.

2007 pictures at Farrell's



2008 at Donald & Cathy Farrell's



2008

Donald Farrell with PRWIN Member Jim Armstrong
checking last year's plantings



Stewardship Rangers (*Bruce Resource Stewardship Network*) take a break from mulching at the Farrell project
July 2008



Nitrate Filters 2007



Brock Walden of Kempton Construction



Will Robertson from Waterloo University



Nearly finished



2007 Nitrate Filters

- Four nitrate filters were installed in municipal drains in the Pine River Watershed as pilot projects.
- Thanks to Environment Canada for their financial support; Will Robertson and Craig Merkley for their expertise; Huron-Kinloss Township for its support; and to the landowners for allowing us to try something new that might help the environment.
- Water testing in 2008 has not been consistent enough. We need more data but initial results show that the nitrex reactors are making a difference on the base level flow that runs through the reactors. In my opinion, we would have to install more filters in serial arrangements to make a substantial reduction in nitrates in those municipal drains because of the flushing action.

A nitrate filter location in 2008



Tree planting 2008 with Community Involvement

- Thanks to the Ripley 4H clubs and their leaders as well as several other volunteers from the Ripley and Pine River Communities.
- With all this volunteer help about 6000 trees were planted by hand.
- About another 3000 trees were planted by machine.

May 3, 2008 at Koskamp's



More 4H volunteers



This 4H leader plants trees with an
unique style!



The whole volunteer gang!



Anglers and Hunters provide the lunch for the volunteers



Mr. Koskamp thanks the 4H for all their help on May 3, 2008



Fencing and tree planting at Boyd's 2008



Resting after a morning's work!



The Project Coordinator John Bertrand and his Supervisor Anne Eadie Spring 2008



New Cattle Crossing at Boyd's 2008



2007 Fencing at Boyd's



2008 view of Boyd's 2007 project



Blackwell's – New Project 2008



East side Blackwell's September 2008



East side cattle crossing goes in – September 2008



West side at Blackwell's September 08



West side crossing Blackwell's September 2008



Ontario Power Generation supports the PRWIN in 2008



Awards by OPG and PRWIN at the Ripley Fall Fair



Lynda Cain (OPG), Doug Brown, Dan Boyd, Roger & Gail Farrell,
Fran Farrell (4-H), PRWIN Chair Jack Campbell

2008 Highlights

- Receiving two Federal Ecoaction grants to do exclusion fencing, cattle crossings, and tree planting at 7 farms in 2008 and 2009
- Support from various businesses and organizations to help finance projects not covered by Ecoaction
- Monitoring of Nitrate Filters
- Phosphate Initiative – Education Pamphlet to be directed at lakeshore area
- Updated project pamphlet designed and printed
- PRWIN booth at the IPM for all 5 days. Committee members led by Gord Cale manned the booth.
- OPG Environmental awards at Ripley Fall Fair and PRWIN booth in display area
- Planning with SVCA's Jim Penner to boost tree cover in the Pine River Watershed in 2009 through Ecoaction and the 50 Million Trees program. As of now we have an additional 16 landowners interested in planting trees in 2009.

Where do we go from here?

- The ***flexibility*** of the Adopt-A-Watershed grant ensured our success. Often a phone call was all that was required for a change in plans. Paper work was kept to a minimum.

Special thanks to Kay Kim, Craig Merkley and Janette Anderson for their guidance, expertise and visits.

- We are wondering how we can pay a ***project coordinator*** in the future. Without Adopt-a-Watershed it will be a challenge.

Again special thanks to Janette Anderson, Kay Kim, Mari Veliz and Ted Briggs for organizing some interim funding to enable us to hire another project coordinator to replace John Bertrand.

- To progress to creating wider buffer strips along municipal drains and planting shelter belts, payment for ***ecological goods and services*** might have to be implemented.

What I Have Observed

- Environmental work in agricultural areas should involve farmers to have any degree of success – “farmers working with farmers”
- Flexibility is needed in working with individual farmers. Sometimes we can make a 60% improvement but not 100%.
Which is better? 0% or 60%?
- We also have to respect the individual farmer’s wishes and input.
- Community support has to be carefully cultivated and can quickly be lost. Use local businesses and contractors where possible. They are usually eager to help promote your work.
- Stewardship programs need to have consistent long term funding. The PRWIN has finally acquired credibility and expertise but it took a few years. Hopefully the committee can continue in the future. That will depend on available funding and reliable volunteers.

The End!

Spring in the watershed



Autumn in the watershed

