



Light Lines

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New Fish Ladder for Norval Dam

A new era for Credit River fisheries

By John Kendell

January 12th, 2011 re-construction began for the Norval Fish Ladder after a long 13 year process. The new fishway will open the doors for better fish access, reduced thermal impacts and increased fishing opportunities for all species. The project is fully replacing the old fishway that ceased to function over 20 years ago!

My first experience with the fish ladder was in 1992. Fish management was not on my radar and growing up fishing most tributaries I

understood the need for a fish ladder and seen many at work, including my first year helping at Streetsville. In the fall of 1992 on a visit with a friend I found the fishway at Norval was 'high and dry' and no fish could use it. Through the mid 90's, while completing my degree at UTM, I learned fish could not pass the dam, the fishway was not operational and 100% of the cold water habitat was above the dam.

and complaints of rainbows in the upper river, even though they had been present in samples back to the 1950's and from angler reports dating to the turn of the century. By 2007 CRAA was well into a



The Atlantic program was also floundering and our knowledge of brown trout was lacking.

Around that time I initiated discussion with the property owner and MNR to look at the fishway and repairing it. Due to many issues the process took a great deal of time. The new management plan did little to further the goal of a new fish ladder and MNR's lack of funding all but killed any hope.

property, help patrol for trespassers and poachers, and bring parties together to be more informed about the dam, fishway and access.

By 2007 CRAA was well into a very successful adult steelhead transfer and MNR/OFAH had begun a new phase of Atlantic salmon recovery.

In 2008 a return of 49 grilse Atlantic salmon signaled the immediate need for the ladder, as did research showing as much as 50% of the steelhead run was being stuck below the dam. CRAA and

MNR worked closely with the land owner and developed a working plan. CRAA, under MNR direction hired AECOM to engineer and design the fishway. Species at Risk, CFWIP and CRAA fundraising paid for the engineering fees and design work. This process took hundreds of hours of my personal time, and many hours from other key CRAA volunteers including Louis Milo, Mike Brady and Justin Elia.

As 1997 ended we found the Fisheries Management Plan starting up In the same era CRAA worked with the land owner to post the

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Credit River Anglers Association

Light Lines

Editor: Cameron Walker

Contributions are welcome from all members and non-members alike.

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CRAA Volunteers Events (recent and coming soon!)

Executive meetings – 25 CRAA members serve on the CRAA executive and our ranks continue to grow. Meetings are held every two months and members are welcome to get more involved – many hands make light work.

Spring Fishing Show – CRAA operated a booth and brought in a strong number of new members. We also had seven private land owners come forward at the show and enquire about having CRAA work on their property. Most of the properties were suitable and they were planted by CRAA in April and May this year!

Sportsmen Show – CRAA volunteers will be at the booth again this year in March and again will be working on membership and educating the public.

Spring fish lift – CRAA volunteers will be operating the fish ladders to lift and transport steelhead as usual. Exact start date TBA based on weather!

Steelhead transfer – CRAA is poised to set a new transfer record in April 2011. Lets hope we see the record fall once again.

Norval Tree Planting – April 16thth - CRAA volunteers will plant trees along the Credit River around the Norval Fish Ladder. Bring your shovel and gloves for a fun planting event to make our river healthier! We plan to plant 500 potted and bare root trees and we may follow up with a fish lift/transfer of the fish are still running!

CRAA hatchery – The hatchery team has grown to 10-12 members led by Joe Ward. The team works daily to feed fish, clean tanks and check on the whole operation. With more volunteers gaining experience we are having our best success ever. See the Hatchery update article in this newsletter for all the exciting work done by members just like you!

Atlantic salmon monitoring – CRAA plans to work closely with MNR and OFAH to monitor the return of adult Atlantic salmon in 2011.

Behind the scenes – Many CRAA volunteers do a great deal of work behind the scenes. Most projects take a great deal of time to plan, finance and bring to fruition. This includes accounting by the treasurer, the hundreds of phone calls and countless meetings attended by Louis, John and other executive, website updates, newsletter article writing and editing, tournament sponsorship acquisition, and event planning. Just to name a few.

Rehabilitation Planning – CRAA is always eager to get in contact with new property owners to expand our work and educate owners to improve water quality and fish habitat. John Kendell has been doing this since the mid 90's and as our work grows more members are assisting and taking leadership roles. Derek Koneiczny has organized many Halton area projects in the past four years and more recently Peter Swift lined up about 15 smaller sites near his home in Glen Williams. More volunteers are needed, especially members in the Erin, Caledon and Orangeville areas.



Joe Ward, hatchery manager, with an awesome October chromer. Enjoying the fruits of his labour!

Norval Fishway. CRAA contributed \$120,000 for Design and Construction

With multiple meetings with MNR's engineering division, the district staff and our retained engineers the project moved forward...slowly. Lack of funding and many layers of regulation added to the timeline. Finally, after 3 years we had final approved drawings and permits by the summer of 2010. I cannot express the challenges we and MNR faced to move through all the permitting.

In the spring of 2010 CRAA also applied for funds from the National Fish and Wildlife Foundation based in Washington DC. The NFWF funds Great Lakes projects and CRAA secured \$60,000 for construction. Sadly, tenders were far over our expectations. So last fall MNR staff who were in charge of the construction and implementation led the charge to find funding and went to a dry well many times to secure the money. Kudos to MNR staff at Aurora for using CRAA's funding to pry money from tight government coffers.

The MNR signed a tender with a contractor just before Christmas. Arguably the best Christmas present I and all of you have had in many years!

I was on site on January 12th as the excavator arrived and began removing the old ladder. It was a momentous day!

The new fishway has been designed for all fish with direct design coming from MNR staff and CRAA volunteers with 20 years of fishway experience. It is capable of passing 80% of the summer base flow in the river, and over 10% in spring flows. That is over 2,000% more than the old fishway and also much larger than Streetsville. This ensures fish will be able to find the flow and pass the dam with ease.

The contractor has been working very quickly and has almost completed the fishway by the first week of March. If all goes well CRAA and MNR hope to be using the ladder this spring to lift steelhead for the first time ever. Steelhead will be lifted and transported by truck to tributaries as we have done since 2003. The new fishway will cut the drive by

30 minutes (one way) and reduce stress on the fish!

CRAA anticipates operating the ladder with volunteers as we have in Streetsville for the past 20 years. Once the time comes we will post details on how to volunteer, where to meet and guidelines.

Keep in mind that Norval is private property and trespassing is strictly prohibited. At this time there is no opportunity for public fish viewing.

The completion of the Norval Fish Ladder is the greatest event to improve the Credit River in 30 years!



Looking into the new fishway from the entrance. The Denile fishway on the left is the old fishway with new baffles that pass 4 times more water. The ladder on the right is new and is six feet wide and almost 7 feet tall. Fish swim through the ladder into a collection cage for sorting.

Chrome Memories

By Pete Pettos, CRAA director

It's November 5th and as I sit here 20 ft up in a tree, north wind pounding at my back....., I can't help but reflect on days gone by. I'm bow hunting for. Mr. Big, it is cold, windy and the rain turns into snow and back to rain as the morning wears on. It's bringing my thoughts to the weather I love best to chase steelhead. Swinging flies that were long forgotten in the annals of time, dressed on 3/0 hooks with long flowing hackles on a long line is what keeps my heart pounding and my passion burning to entice these magical fish up to take a fly. History repeated for every pull and landed and lost fish. This October I was fortunate to shake hands with a magnificent specimen on my beloved Credit river.

First allow me to set this in perspective. I have chased steelhead since I was a boy and over the past 30 years have had the opportunity to fish many of the world's finest rivers in the world. I spent several years in BC where I fished the famed Thompson, Skeena and the Dean. Each of these systems is world renowned for big, powerful steelhead that are willing to rise for a swung fly. Equally impressive are Gaspé and Maritime rivers where Atlantic salmon rise to swung flies and dry flies. Hereto I have had the privilege to chase Atlantic salmon on many occasions in world renowned rivers. The fish are powerful, beautiful and inspiring. I have of course tuned my skills on most Great Lakes tributaries for 30 years so I know what our fishery offers. Yet this particular fish I had the pleasure of hooking has raised the bar, setting a new standard for chrome that has never been equaled in all my experience.

This super fresh, chrome female, close to 13lbs took a dry line Spey with such reckless abandonment it almost jarred me out of my Patagonias..... I was fishing the Credit River near Erindale on a perfect fall day, with leaves ablaze in orange and red, clear, cold water and fresh steelhead in the river. As my fly began it's swing over the deep riffle water my line came tight and all hell broke loose. An instinctive pause, followed by a steady hook set securely hooked this leviathan with my barbless hook.

With the fly swinging less than an inch under the surface there is no mistaking a fish, and once hooked this steelhead left me speechless.

This wonderful chromer came out of the water enough times to give me the sweats. As it tore down the rapids it twisted and turned a half dozen jaw dropping summersaults in the air, as much as five feet over the rapids below. It peeled line of my Godfrey reel at a rate that I'm sure was never intended. The fish was a demon fish, intent upon testing my skills to the limit and making me earn every inch of line I wound on the reel. After tearing well over 300 feet of backing I began to make progress. I struggled to keep her under wraps and eventually with a few pleads to the Steelhead gods was fortunate to bring her to hand. I snapped a quick pic with the iPhone and let her be on her merry way.



13 lb wild chromer landed by Pete on a swinging fly with floating

After releasing her to continue her spawning journey I was left shaking in awe of what just took place. My heart was pounding in a panic stricken beat, testament to the epic battle between myself and this fish. My eyes welts up as I just sat there trembling on the bank of my beloved Credit river. Now don't get me wrong, I've taken monster Steelhead on the west coast and the east coast many times before. But this fish was different, special, more powerful and beautiful. My point is, this Credit River Steelhead left me humbled beyond words. A fish so wild and born free, a true gem to carry on the legacy of what a world Credit river fish is and should be! I reflected on just how incredible that fish was, from take, to fight, to beauty, all the while fishing in Mississauga in the Credit Valley and the natural wonder that surrounded me. I sat for a time, just replaying the event in my mind, stunned by the fact that a steelhead had pushed me and my gear to the limit in my own backyard, a result of the work myself and hundreds of volunteers have made possible.

It's snowing now, the temperature has dropped and I'm back to trying to arrow a monster whittail. Until it rains once more and I pick up my spey rod in the chase for the Credit's chrome!

CRAA Members

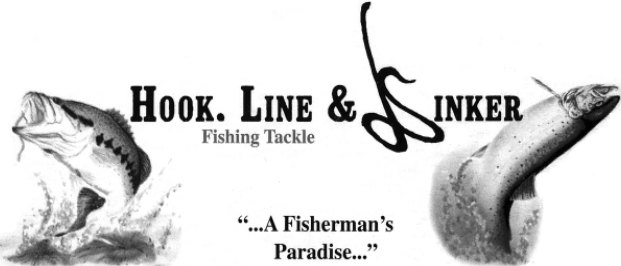
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CRAA Steelhead Tournament

April 30th, 2011

The format this year will be different from years past, just to change it up. **You are allowed to make your own team.** 2 anglers per team. If you don't have a partner, you can sign up on your own and a team mate will be assigned to you. It will be a \$\$\$CASH\$\$\$ payout for the top 2 prizes and biggest fish. All other prizes will be drawn for.

Based on a full field of 40 teams, prizes will be as follows:

First place team - \$400*
Second place team - \$150*
Biggest Fish - \$50*

Team with heaviest garbage bag - additional 15" added to the total.

*prize amounts will be changed if fewer teams are entered

We will be meeting at Erindale Park in the Dundas Street parking lot at 5am sharp on Saturday April 30th, 2011 to suit up, pair up and start fishing. The tournament will end at 12pm with lunch to follow in the barn across the pedestrian bridge. The team who catches the most total inches win \$\$\$\$. Entry fee is \$70 per team (\$35 for single) and the entry deadline is April 15th. No exceptions. You can also sign up at the fishing show in the CRAA booth.

Report all tagged fish to CRAA!

www.craa.on.ca OR info@craa.on.ca



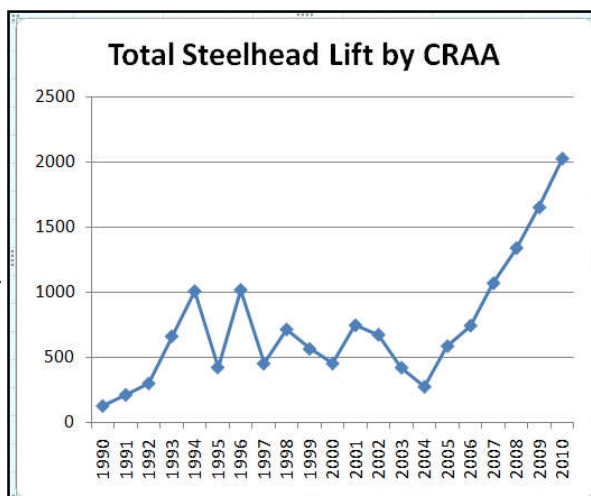
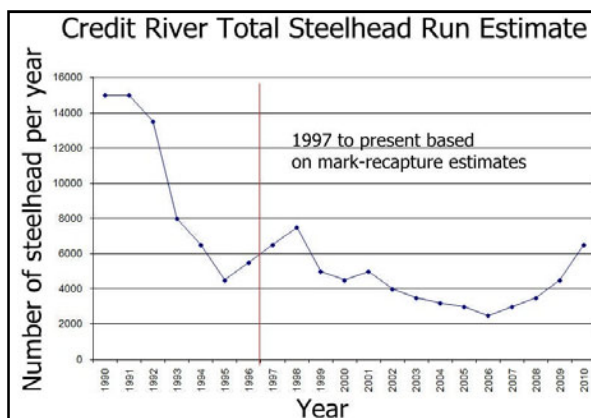
How CRAA has changed wild steelhead!

Adult transfers have created a world class fishery

By now you are well aware CRAA volunteers have been busting their humps since 2003 to transfer all wild steelhead we lift at Streetsville to spawning grounds above Norval in a controlled fashion. CRAA has worked with MNR and other watershed partners to make this possible and have had additional help from OFAH in the fall with their crews in 2009 and 2010. The impact on our steelhead run has been clear, with a 700% increase in trout biomass and a growing wild steelhead run that exceeded 80% in 2010.

Based on the fall of 2010 run we are poised for our best steelhead run since 1992. The difference, most fish are wild and many are being lifted and transported back to their natal spawning grounds. Last fall was the best fall steelie action many members had ever experienced on the Credit. With consistent catch rates and huge quality, wild fish that were supercharged. Take a look at the estimated run graph. Exciting results.

The total steelhead lift data is further proof of the positive impacts CRAA's work is having on the awesome fishery of the Credit River. With the new Norval fishway and growing steelhead runs we anticipate a bright future for anglers on the Credit River.



New Membership and Member Renewal Information

Are you concerned about the future health of the beautiful Credit River and Bronte Creek watersheds including all their tributaries? Do you enjoy fishing, hiking and other activities in the valleys? Do you want a cleaner river, better fishing and a cleaner environment for the future?

Then you should join CRAA NOW. CRAA's address is on page 3.

Membership Fees: **1 year \$10.00** **3 years \$30.00** **Lifetime \$100.00**

Name : _____

Address : _____

City : _____ Postal Code _____

Tel (Res) : _____ Tel (Bus) : _____

E-mail Address : _____

Yes! I want to volunteer for: _____

Please make cheques payable to CRAA

Proof in the Chrome!

If I had a dollar for every person (both angler and not) that told me the Credit could not become a top wild river for salmon and trout I would be rich. Yet the fact this truly incredible river can sustain tremendous numbers of wild salmon and trout is self evident. Reports have been steady and downright exhilarating.

It starts in 2009, when a noticeable increase in small shaker bows and increased Atlantic and Chinook returns came to fruition. Streamside research further proved the point in summer 2009 and again in 2010. The evidence continued to mount in fall 2009 with our best fall fishing in a decade, followed by a strong spring. Post opener saw a steelhead smolt infestation. Not only steelhead, but increased brown and Atlantic juveniles, plus reports of wild coho and Chinook parr were common place. The spring 2010 fishway data showed a 300% increase in four year old (2 lake year) bows. Now fall 2010 is proving we are still on the front end of something truly incredible.

The river has seen our best Chinook run in a decade...no doubt thanks to efforts like Ringwood, better lake survival and surly it will continue to grow with the Port Credit Salmon and Trout Association pen rearing since spring 2010. Coho salmon appeared in solid numbers (estimated 1,500), again mainly thanks to Ringwood stocking efforts. However the most exciting news has to be a solid run of Atlantic salmon (estimated at 250) and our best fall steelhead season I can remember. Plus an increase in brown trout, albeit migratory runs are still at an early stage.

The steelhead run is obviously our most exciting migratory suc-

cess with some of the most beautiful and powerful chromers I have ever had the please to connect with. Myself and several other hardened 25+ year steelheaders have been brought to tears by the insane power and spirit these steelhead have. With the thousands of steelies I have caught few have caused me to sit on the bank and reflect after a fight...until this fall on the Credit. I lost more fish than I care to admit, not due to poor line or bad technique, but due to brute strength on the fishes part. Stories of guys being spooled and fish in the air more than water are far more common. Plus the diversity of the run with four common age classes, with 3 to 5 year olds most common and enough 6 year old fish to keep us on our toes. Plus 99.5% wild for the first 8 weeks of samples.

We need to protect these wild fish more than ever! I encourage all members and non members to release all your wild steelhead and educate others as to the importance to let them spawn. We are building a wild run and the population cannot sustain harvest at this time. Ensuring the diversity of the wild fish and maximizing their numbers will ensure the population grows which leads to better fishing for all. Fall fish are even more susceptible to harvest (see article below) so catch and release is even more important.

This fishery has been built by volunteers, volunteers like you and me, busting their backs to give the fish a chance. And as the fishing gets better, so does the interest in volunteering. So if you're a new member or long time volunteer, enjoy the fish, protect them and find time to give a little back so the fishing gets even better.

Fall steelhead have high multiple catch rates

CRAA has been conducting a tagging study to look at the Streetsville fishway's effectiveness working with MNR. Trained members tag fish with special CRAA tags after they are caught, record the fish's data and release them to fight again. The primary plan is to determine how many are collected in the fishway and how many are found above Streetsville that were not lifted through the fishway, thus proving dam passage without the fishway. However a bonus has been angler reports from tagged fish being caught again in the fall and spring. To date over 20% of the fall tagged fish have been caught at least a second time and a few have been caught three times. With tagging only started a few weeks prior, this data is surprising. It highlights just how susceptible the fall steelhead are to harvest.

Fall steelhead run from September to November, but they don't normally spawn until March, thus leaving them in the river for up to 8 months. This versus spring fish that sometimes enter in late April and spawn and drop out in a matter of days or a week.

Protecting fall steelhead in reaches where they may be caught multiple times highlights just how badly the Credit River needs

special protection from over harvest. It also highlights the huge value and success catch and release has for our fishery.



LAKE ONTARIO Trout and Salmon SYMPOSIUM

April 9, 2011
9 am to 5 pm

Waterside Inn
15 Stavebank Rd.
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(Port Credit Harbour)



FREE
ADMISSION
Advanced
registration
required



Featuring: Deep Water Salmon; Beyond 400 feet – Dr. Roger A Bergstedt, USGS Research Fishery Biologist (retired), Former Station Chief at the Hammond Bay Biological Station in Michigan.

Speaker line up: Ontario Ministry of Natural Resources, New York State Department of Environmental Conservation, Great Lakes Fishery Commission, Conservation Organizations and more.

Learn about: Lake Ontario's trout and salmon, its changing food web, stocking plans, fisheries management efforts, exhibits and more.

Silent auction: Proceeds go to conservation.

For more information and to register:
Visit www.lakeontariofishingforum.com

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Credit River Anglers' Association
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Lake Ontario Trout and Salmon Symposium April 9, 2011

www.lakeontariofishingforum.com

CRAA volunteers, working with volunteers from the Port Credit Salmon and Trout Association and the MNR are pleased to present this exciting educational event in Port Credit on April 9, 2011. A team of volunteers working with MNR's lake unit have organized an educational and informative event to discuss the Lake Ontario fishery. Learn about fishing techniques, research, stocking programs, conservation work and much more. If you fish Lake Ontario, tributaries and the piers this event is not to be missed. Seating is limited to 300 and spaces are filled on a first come basis. Entry to the event is FREE! However you must pre-register online. Visit the website listed above for details on the speakers and to register!



CRAA Angler Information Signs

Another long term goal was bolted in, one sign at a time along the Credit River this past fall. With extra funding and final design drawings CRAA had 80 metal signs created for the Credit River. Most of you have likely seen the signs already, with colour fish ID images, reach specific fishing regulations and added information on how to report poachers and to support catch and release.

The CRAA executive team developed the sign design and Mark Polanski created the design for our sign manufacturer, JK Signs in Streetsville. Volunteers including John Kendell, Peter Cudzilo, Andrew Muzishin, Dave Leschied, Ken Paterson and others took time to install the signs at most primary access points to the river. Signage started at Upper Baseline Road in Inglewood and was installed at almost every bridge crossing and park all the way to Port Credit. Multiple signs were installed in Norval and Erindale where angler pressure is much higher.

The signs include all fishing regulations for each specific reach to ensure the public are informed as to where and when they can fish.



Take a kid fishing

By John Kendell

Getting the next generation to share our passion is vital to continued protection and conservation. While trout and salmon are not the best specie to get started, they are something you can work towards with your children. Choosing nice weather, calm water and easy to catch fish like sunfish, rock bass and perch are a great place to start. Maybe at the cottage, or out with a friend. Getting kids into lake salmon is possible on a charter or in your own boat. But fish can be big and require some experience. Once your child has some hands on experience you can venture for more challenging species. I take my children fly fishing in ponds for stocked trout each summer and they love it. Nice weather, easy to catch (usually) and a fun day for all.

2010 was a special year, as I managed to get my six year old daughter into her first wild Credit River steelie and this fall my son landed his first wild fall run Credit steelies. Very proud moments for dad and very exciting for the kids. I also shared a few outings for brook trout on dry flies which kids love. They can be easy to catch and the surface rise and visual to the dry fly is a big bonus for the kids.



Atlantic Success and Challenges

This past fall was arguably the largest Atlantic salmon run the Credit River has ever seen in well over 120 years, since prior to their extirpation. Estimates by CRAA suggest between 200 and 250 salmon returned, with three year classes evident. As expected, grilse were the major component as stocking levels continue to increase. However a solid showing of what we believe are two lake year salmon and a few three lake year salmon was fantastic. Confirmation of wild natural reproduction was also big news for the program. So was DFO research that found thiamine levels were 400% above levels needed for natural reproduction, thus debunking the thiamine concerns raised by a handful opposing the program.

The first fully wild Atlantic salmon juvenile was also captured in summer 2010 by crews confirming the fish can reproduce.

The challenges were MNR management decided not to enlist CRAA's direct help in collection, either via the fishway or fish collection. John Kendell did oversee the OFAH crew many times to operate the ladder in the early season, but that only produced a dismal 5 fish by October 20, 2010. Four fish were also collected during the Chinook electro fishing week for a total of only nine lifted, of which only 6 were transported (and one of the six died).

So where do we estimate the large run from? Through daily visual checks on the fishway and angler reports through verified pictures. CRAA has led a local campaign to educate anglers to report any salmon caught and send a photo for ID purposes. Anglers did a great job reporting and through the fall period we had over 70-100 salmon reported caught. Most regular steelheaders to the lower river caught several while fishing for steelhead and Pacific salmon. Again, most fish reported were grilse, but numbers of 8-10 pound salmon and a few 12-15 pound salmon were also caught. In addition, many salmon were spotted and counted below the fishway in Streetsville.

In the fall of 2008 we estimated 50 grilse returned and CRAA managed to collect and transfer over 75%. In 2009 working with an OFAH crew and MNR, CRAA volunteers estimated about 80 fish returned and we managed to transport over 50%. Sadly, without CRAA's volunteer involvement the program failed to move fish to spawning grounds and most fish were missed or simply never re-caught.

CRAA looks forward to working with MNR, OFAH and other partners to improve the fish collection process for future years. We expect a larger run still in 2011 and 2012, as stocking and new strains come online to the program. It will be vital to ensure all adults can reach their spawning grounds to ensure the best chances for wild reproduction and adaptive selection to develop a wild strain.

A note from New York: New York has seen a growing summer run of Atlantic salmon to the Salmon River in recent years. Runs at the Salmon River are estimated to exceed 1,000 fish and solid returns were also seen at Oak Orchard Creek, a second DEC stocking site. They have also documented wild juveniles in recent years, as well as years going back to the 1980's. NY is also firing up a major program led by the USGS to increase Atlantic salmon stocking in the hopes of improving the run and developing a Lake Ontario strain once more.

We hope the new Norval fishway will make significant improvements to the lift and transfer of returning adult Atlantic salmon. We will keep you updated as the program continues to unfold!



Hatchery Update

By Joe Ward

CRAA is pleased to announce we are raising Coho Salmon for the first time in our hatchery. Thanks to Lake Manager Andy Todd and MNR staff for their solid support and assistance to make this possible. Egg collection was a real headache due to an adult fish in the first batch showing a disease. So volunteers had to disinfect the hatchery and collect new adults for eggs in late November as the river was freezing up. The good news is we succeeded. The Coho are growing fast.

MNR also shipped 20,000 brown trout eggs to us and they have recently hatched. Last year the fry did not survive so we are unable to stock any browns for 2011.

Our steelhead from the April 2010 egg collection are looking great! They will be stocked in April as yearlings. These are the biggest and fattest yearling steelhead we have ever produced. And our survival rate was also our best by far. The new UV filter we installed last year has made a real difference.

Volunteers will host a major work day in late March to install a new set of Heath trays for eggs and to install new tanks we purchased last fall. As we expand our species in the hatchery we must also expand our tanks to keep species separate.

We were unable to gain approval for brook trout eggs last fall due to TU and CVC opposing the request at the CRFMP committee so no brookies are being raised. We are still researching sturgeon so at this time they are on the 'one day' list.

Brook Trout Genetics

Last fall while discussing the matter of brook trout being raised at our hatchery all groups agreed we don't know much about the genetic makeup. Thus, MNR and partners hope to begin a sampling of brook trout in the Credit River watershed this year to examine genetics. From the 1940's to the 1970's the MNR stocked tens of millions of genetically domesticated brook trout in many Ontario rivers with the Credit receiving heavy stocking. CRAA has concerns the brook trout we have today were genetically impacted by the stocking. Thus we are interested in sourcing true native strain brook trout and then examine the opportunity to collect those wild fish eggs/milt for the hatchery to re-establish a more diverse population. CRAA would like to



see brook trout expanded to middle tributaries and reaches. However we believe groundwater extraction has destroyed many brook trout spawnings areas and as such self sustaining populations are not achievable in some reaches until the groundwater issue changes. All of Halton Hills draws its drinking water from groundwater that would otherwise enter the Credit River and tributaries.

Resident Brown Trout Spawning Access

Last fall CRAA also worked with the CRFMP team and gained approval for all wild migratory brown trout to be lifted and passed above Norval to the main Credit River so they can access the upper Credit and the Forks. MNR genetic work shows the lake run browns and resident browns are one in the same specie. It supports the notion put forth by many anglers that some resident brown trout become migratory and visa versa. The resident brown fishery on the Grand was created by stocking browns taken from migratory Ganaraska fish as an example. The new Norval fishway will benefit resident and migratory browns in a big way. Many of the largest resident browns and larger lake run browns will now be able to access their natal spawning waters for the first time ever. The added diversity and spawning fish should add to the exciting fishery.