# NEW BRUNSWICK WILDLIFE TRUST FUND LIST OF PROJECTS APPROVED 2002

Charlo Salmonid Enhancement Centre Inc. Charlo Salmonid Enhancement Centre

\$28,500.

The funding will be for the operation of the hatchery.

Nepisiguit Salmon Association Nepisiguit Salmon Assessment & Enhancement

\$14,250.

Assessment and enhancement of the Nepisiguit and area rivers with a goal of attaining optimum Atlantic salmon returns on a constant basis.

**Belledune Regional Environment Association Inc. Jacquet River Atlantic Salmon Conservation Project** 

\$17,100.

To conserve the Atlantic salmon resources of the Jacquet River by protecting the entire rune of adult spawners, collection of biological data, improve public recreational fishing opportunities and promote unique tourism potential.

Association des Loisirs, Chasse et Pêche de la Rivière Pokemouche Inc. Restoration of the Fish Habitat

\$8,550.

To restore the salmonidae habitat in the following two tributaries: Pollard and McConnell brooks.

Le Club Chasse et Pêche Grande Rivière Inc. Restauration du Ruisseau Clearwater

\$12,350.

After two years of habitat survey work, the group has decided to focus on Clearwater Brook where they identified two major sources of sedimentation.

Gestion du saumon de la Restigouche et ses tributaires MSRT Hatchery Facility

**\$7,600.** 

The main goal of this project is to develop a source of eggs, unfed fry and feeding fry for incubation boxes and the satellite rearing facility on the Kedgwick River.

#### Tabusintac Watershed Association Road Stabilization and Sediment Reduction along the Tabusintac River

**\$5.190.** 

To reduce the amount of sediment entering the river from fording sites in an effort to improve water quality and restore important fish habitat.

# **Tabusintac Fish & Game Association**

Atlantic Salmon Smolt Production in the Tabusintac River, N.B.

\$9,500.

The project objectives are to estimate the Atlantic salmon smolt production; to determine the distribution of ichthyoplankton, to determine current status of striped bass spawning in the estuary; to evaluate juvenile abundance through survey – densities and pHs; to perform an angler survey in the public section of the river to determine the extent of brook trout and Atlantic salmon angling; and to continue water temperature monitoring survey.

## Comité Sauvons nos Rivières de Néguac Stabilisation de berge / Sensibilisation de la population

\$9,500.

To improve water quality and fish habitat of Rivière des Caches.

## Miramichi Watershed Management Committee Inc. Miramichi River Salmon Restoration – Stocking 2002

\$28,500.

To stock juvenile salmon in areas of the Miramichi River not meeting conservation targets, to assist in maximizing the number of returning adult salmon.

# Miramichi Salmon Association Inc. Miramichi Salmon Association Electrofishing Program

\$8,075.

Assessment of juvenile Atlantic salmon stocking success, locating optimum juvenile salmon stocking sites and juvenile salmonid density estimates on the Miramichi River system.

# Northumberland Salmon Protection Association Atlantic Salmon Smolt Production from the Northwest Miramichi River \$9,500.

The objectives of this study are to estimate the Atlantic salmon smolt production from the Northwest Miramichi in 2002 and to compare the production estimates of smolts to those of 1998 - 2001 to the parr densities from the previous years.

## Richibucto River Association Richibucto River Water Quality Improvement 2002

\$9,500.

The main objective of this project is to limit cattle access to the river to decrease problems associated with increased organic loads; restore eroded riverbanks by planting trees that also provide shading in streams; reintroduce vegetation by grass seeding; and create alternate watering methods by restoring natural-flowing springs.

#### Dr. Alyre Chiasson, UdeM, Moncton

Macroinvertebrate and fish as indicators of biological integrity in the assessment of current and future impacts of development in the Richibucto watershed \$9,500.

The objectives of this project are to determine the current health of the Richibucto River by using fish and macroinvertebrates as biological indicators of ecological integrity; to test various metrics for macroinvertebrates and fish and to determine which perform the best in describing and monitoring the health of the river; and to determine how the health of the river is reflected in the health of the estuary (parallel study).

# Mill Creek Watershed Group Mill Creek Bank Stabilization/Habitat Improvement Project Phase 2 \$7,600.

To stop erosion, to stop sedimentation and to increase the amount of healthy fish habitat within the Mill Creek and it's tributaries.

# **Southeastern Anglers Association Kent County Stream Enhancement Projects**

\$9,500.

The objectives are to increase salmonid populations by enhancing the quality and quantity of fish habitat, to reduce surface erosion by erecting cow fencing and planting trees and to restore buffer zones; and to continue intensive habitat restoration project by using cost effective restoration devices to restore natural hydrological patterns.

## Petitcodiac Watershed Monitoring Group Petitcodiac River Watershed Cattle Fending Initiative

\$9.500.

To restore the buffer strip along the brooks/streams and to help native vegetation to re-grow in the buffer zones.

### Shepody Fish & Game Association Crooked Creek Rainbow Trout Tagging Study

\$1,900.

To determine angling mortality in Crooked Creek rainbow trout

## Dr. Matthew K. Litvak, University of New Brunswick Ecology and status of the Atlantic and Shortnose Sturgeon on the Saint John River System

\$10,450.

To evaluate the status and develop protection and/or recovery plans for sturgeon in the Saint John River they need: to determine population size, structure and growth rates; to define spawning and overwintering habitat; to examine larval and juvenile behaviour and distribution mechanisms; to determine larval and juvenile habitat use (model) and; to develop protocols for mass rearing (if necessary).

# Magaguadavic River Association Magaguadavic Broodstock at Huntsmen Marine Science Center

\$14,400.

The objectives are to move the Magaguadavic broodstock (250 fish) from Grand Manan site (Cookes Aquaculture Limited) to Huntsman Marine Science Center, St. Andrews; to rear the fish in freshwater (in eight 3 meter diameter tanks) for up to four months; and have the fish tested for presence of pathogens. If tests are negative, move the fish to the Mactaquac Biodiversity Center for the final stage of rearing to maturity.

# Atlantic Salmon Federation Magaguadavic River Monitoring and Recovery Program

\$28,500.

The objectives of this project are to maintain the existing adult and juvenile salmon monitoring program; individually identify captive broodstock for mating plan; to genetically analyze captive broodstock for mating plan and to acoustically tag and track movements of broodstock in the river to determine spawning performance and success.

# Nashwaak Watershed Association Inc. Investigating in-River and Marine Factors that Affect the Migration Success and Survival Rates of Nashwaak River Smolts

To track the migration patterns of Nashwaak River smolts to provide information on in-river and marine movements.

# Miramichi Headwaters Salmon Federation Inc. Satellite Rearing Operation, Habitat Restoration

\$9.500.

\$26,125.

The main objectives are to help increase the population of searun trout and Atlantic salmon in the headwaters of the Southwest Miramichi; to stabilize stream banks to prevent erosion; to remove debris from stream and to instill pride in the resource.

# Miramichi Watershed Management Committee Eradication of chain pickerel from Despres lake, Miramichi watershed (Fall 2001) \$6,000.

To eliminate the chain pickerel which present a significant threat to native species in the Miramichi drainage – particularly Atlantic salmon and brook trout.

# Cains River Enhancement Association Atlantic Salmon Mortalities in Holding Pools on the Southwest Miramichi \$5,940.

To estimate the number of salmon mortalities and determine the factors responsible at 2 sites where a number of mortalities occurred in 2001.

## NB Aquatic Resources Data Warehouse Compiling and Preserving WTF Fisheries Project Data

\$20,000.

To incorporate within the Data Warehouse several large data sets including smolt wheel data, hourly temperature readings recorded, hatchery and satellite-rearing fish stockings; will continue incorporating data from the priority organizations in the 2001 Data Warehouse project.

### Keswick River Society Inc. Keswick River Bank Stabilization Project

\$6,270.

To improve a stretch of approximately 80 meters of the river bank.

#### ACAP Saint John Habitat Restoration in the Urban Environment

\$13,500.

Continue restoring urban habitat and streams in the McAllister Industrial Park and to maintain and repair the existing in-stream structures; form partnerships with the McAllister Industrial Park; and to educate the public.

#### Neighbours Alliance of North York Little Pokiok Stream Restoration

\$3,000.

The objectives of this project is to improve fish habitat, water quality and spawning areas of the Atlantic salmon by using a variety of stream restoration techniques such as digger logs, stream bank stabilization and rock deflectors.

# Miramichi Watershed Management Committee Inc. Operation of the North Branch – Main Southwest Miramichi River Atlantic Salmon Barrier

\$15,000.

The operation of the barrier serves several purposes. It allows for the protection of Atlantic salmon from poaching, to enumerate the Atlantic salmon and sea run brook trout populations of the North Branch, to determine run timing and strength, to increase spawning escapement and provide data for management and to continue data set originally established in 1980.

# Tobique Salmon Protective Association Inc. Tobique and Saint John Wild Salmon Stabilization and Recovery

\$15,045.

Rearing adult fish from juvenile salmon captured upstream of the Matacquac dam with the following objectives: capture 2,600 wild pre-smolts; provide an alternate supply of wild Tobique salmon eggs for the hatchery program, freeing up more Wild salmon for natural spawning in the headwaters; and double the numbers of wild smolts successfully passing Mactaquac in their seaward migration.

#### Miramichi Headwaters Salmon Federation Inc. River Enhancement and Habitat Restoration

\$20,475.

The project objectives are to repair erosion damage and prevent further erosion at site 1 (The Lee Canam property) and site 2 (My Brother's Place). To remove debris blockage and beaver dams at the mouth of Elliot Stream and the Big Teague Stream to return it to its original path of flow, prevent further damage to nearby natural wildlife habitat and also open the streams up to the free movement of fish to and from other spawning areas.

# Atlantic Salmon Federation Investigation of Possible Toxicant-Induces Gill Abnormalities in Atlantic Salmon Smolts in Western Fundy Rivers \$15,000.

To capture out-migrant Atlantic salmon smolts from the Kennebecasis, Hammond, Nashwaak and Saint John Rivers, and screen their gills for damage consistent with their exposure to toxic chemicals. The gills will be compared to those of salmon from an area known to be chemical free.

**Sub-Total for these Fisheries Projects** 

\$415,320.

# **Kennebecasis Watershed Restoration Committee Smith Creek Restoration Project 2002**

\$25,000.

To restore riparian vegetation to prevent further erosion and over-widening of the stream on the lower portion of the Smith Creek watershed and to evaluate the state of the riparian zone and to identify erosion problems and sediment and nutrient inputs.

### Kennebecasis Watershed Restoration Committee Millstream River Restoration Project 2002

\$25,000.

The main objective of this project is to continue the restoration work on the Millstream Watershed to enhance the fish habitat and improve the water quality and temperature. Another objective will be to inform the landowners and help them establish best management for their farms and land.

#### Washademoak Environmentalists Evaluation of the Canaan – Washademoak Ecosystem

\$40,000.

To continue monitoring water quality and riparian zone; to report water quality and riparian zone and to communicate the information.

# Canaan River Fish & Game Association Bank Restoration of the Canaan River – A Demonstration Project

\$18,000.

The main objective of this project is to draw the attention of stakeholders to the threat of siltation and encourage use of Best Management Practices by establishing a demonstration site and to correct an identified area with severe stream bank erosion.

**Sub-Total for these Fisheries Projects Covered by MRDC Funds** 

\$108,000

#### TOTAL FOR THE FISHERIES RELATED PROJECTS: \$523,320.

Springfield Sports Club Inc. Springfield Range

\$3,040.

To provide financial support for the educational component of the project.

# Atlantic Cooperative Wildlife Ecology Research Network, UNB Viability and Brood-Rearing Habitat of Common Eiders

\$5,700.

To measure juvenile survival and age of first breeding in NB eiders in the Bay of Fundy eiders.

# Carvell Crandlemire Mount Pleasant Wildlife Rehabilitation

\$5,360.

The main objectives are to construct confinement and flight cages for raptors being rehabilitated and to feed and transport the rehabilitated animals.

# The Chigneto Soil and Crop Association Working Towards Integrated Land Use to Benefit Wildlife and Agriculture In the Tantramar Dykelands \$14,250.

The objectives of this project are to improve riparian habitat, to enhance wetland habitat on dykelands, to inform farmers of management practices that enhance or create fish and wildlife habitat in a matter compatible with sustainable farming.

#### Ducks Unlimited Canada. Wetland Management for Wildlife Diversity and Fish Passage

\$18,000.

The objectives of this project are as follows: to maintain stable water levels on DUC managed marshes during the breeding season to benefit a variety of wetland wildlife species; to ensure that fishways are functioning properly during the times of year when fish are moving (spring and fall); to conduct fall partial drawdown trials on four floodplain marshes to facilitate juvenile fish escapement and provide habitat for fall migrant wading birds and to improve breeding habitat on managed wetlands for a variety of bird species by erecting nest structures (swallow boxes, osprey platforms, wood duck nest boxes).

### Service de réhabilitation d'oiseaux sauvages (S.R.O.S.) Project for an Open Area for the Rehabilitation of Wild Birds

\$6,485.

To provide proper facilities to care for injured birds for return to the wild.

### Northumberland County Woodlot Owners Association Deer Wintering Area Management on Miramichi Watershed Private Woodlots

\$30,000.

The goal of this project is to encourage private woodlot owners to manage their woodlots to provide deer habitat. As they enter Year 5 of the five year management plan, the main objective will entail the implementation of several areas managed for deer wintering habitat.

# **Upper Miramichi Firearms Club Inc. Range Project**

\$3,200.

To provide financial support for the educational component of the project.

## Welsford Sportsman Club Enhancement and Youth Shooting Program

\$3,200.

Junior/Youth shooting programs designed to promote safe handling of Firearms, an opportunity for Junior/Youth to have hands on shooting experience while receiving coaching, guidance and instruction from senior club members.

#### Association protectrice de chasse et pêche du Comté de Madawaska Inc. Range Facilities

\$3,200.

To ensure an adequate and especially safe operation when young people use the firing range.

#### La Forêt Expérimentale Protecting the "Étang Martial" and the Waterfowl Habitat

\$15,000.

This project consists of the rehabilitation of l'Étang Martial to its original state. There will be construction of a control structure in order to ensure a continuous level of water which will in turn provide an habitat for the different species to that kind of ecosystem. Another aspect of the project is the construction of an observation structure that will help in enjoying the view of the area and will contribute to the education and awareness of the public in general.

#### Claude Samson, UdeM - Edmundston Monitoring or Winter Deer Activity in Northwest New Brunswick

\$30,000.

Monitoring of winter deer activity on woodlots in northwest New Brunswick by local interest group, and development of habitat associations through collection of stand structure data. Development of management plans for DWA.

## TOTAL FOR THESE WILDLIFE RELATED PROJECTS: \$137,435.

#### NB Trappers and Fur Harvesters Federation Furbearer Track Transect Network

\$10,000.

This project consists of acquiring knowledge on the distribution and population trends of terrestrial fur bearing animals.

#### Claude Samson, UdeM - Edmundston Management of Plantations Aimed at Improving the Habitat of the American Marten

\$20,000.

To measure the absence of dead standing trees and wood residues to determine detrimental effects on survival and reproduction of marten and to develop strategies to manage shelter for marten in plantations.

## TOTAL FOR THESE TRAPPING RELATED PROJECTS: \$30,000.

Atlantic Canada Conservation Data Centre Rare Plant Inventories, 2002/2003

\$14,250.

The project objective is to acquire information on status of rare plants in New Brunswick.

Club de naturalistes de la Péninsule Acadienne Information Database on Birds of the Acadian Peninsula

\$3,370.

Compilation of bird data from disparate sources to make more accessible.

Conservation Council of New Brunswick Assessing the eutrophication status of selected estuaries of northeastern and eastern New Brunswick

\$7,125.

To identify the symptoms and degree of eutrophication in selected estuaries in NB, to identify sources of nutrient loading and explore with community groups solutions for reducing those discharges and to increase public awareness of the impacts of eutrophication on the ecological health of estuaries.

### Atlantic Canada Conservation Data Centre Core Business Support, 2003/2003

\$7.125.

The main objective is to assemble and provide information and expertise on species at risk and natural communities, and to undertake field biological inventories in support of decision-making, research and education.

Éco-Centre Irving and Parc National Kouchibouguac Inventory updating Odonata in Kent County, N.B. – Phase II

\$7,600.

The objectives of this project are to process field data collected in 2001 and to do field verification of significant findings in 2001.

#### Dr. Donald McAlpine, NB Museum Status of the Yellow Lampmussel and the Tidewater Mucket in the Saint John River

\$13,300.

To determine distribution of, and develop monitoring techniques for two rare species of freshwater mussels that are candidates for endangered species listing.

# Connell Memorial Herbarium, UNB Database and Web-page Development for the Connell Memorial Herbarium \$8,550.

The objective is to create and maintain an internet database of plant specimens in the Connell Memorial Herbarium and make it accessible to the public.

# **Greater Fundy Ecosystem Research Group Habitat Requirements of Forest Birds**

\$15,200.

To determine aspatial (stand structure, stand composition) habitat relationships for avian indicator species; to determine spatial (patch size and configuration) habitat requirements of avian indicator species and to examine aspatial and spatial habitat requirements for a range of forest bird species to determine if they might serve as better indicator species in upcoming DNRE forest management planning exercises (2001-2003).

#### Huntsmen Marine Science Centre St. Andrews Banding Station Fall Migration Monitoring Project

\$7,125.

The objective is to capture and band a sample of songbirds migrating in the fall through St. Andrews.

# Saint John Naturalists' Club Seaduck Migration Project Point Lepreau Bird Observatory

\$3,845.

To quantify the timing and extent of seaduck migration at Point Lepreau Bird Observatory.

## Nature Trust of New Brunswick Upper St. John River Rare Plants Study

**\$11,400.** 

To identify endangered and rare plant sites on the riverbank corridor of the upper Saint John River, between the communities of Ste-Anne de Madawaska and Perth Andover.

## Birds Studies Canada – Atlantic Region Citizen Science in New Brunswick: Monitoring Bird Populations Through Volunteers

\$10,000.

This project will utilize volunteers to survey owls, hawks and Bicknell's Trushes (and other high elevation bird species) using pre-determined routes (on roads or trails) on all landbase types (private, industrial freehold and public) and with specific playback protocols.

Chaleur Bay Watersheds Group
Benthic Macro-Indicators as Biological Indicators of Water Quality
For the Watercourses within the area of Interest for the
Chaleur Bay Watersheds Group

\$10,000.

The results will support the water quality results gathered by CBWG; the outcome of the study will hopefully prove that volunteer sampling and identification is accurate and prove to be a viable lower cost method for water quality data collection; insight of the current state of the aquatic community and determine the health of aquatic communities at various locations.

# Marc-André Villard, UdeM - Moncton Assessment of the Contribution of Buffer Zones in Exploited Peat Bogs to the Conservation of Biodiversity \$7,000.

This is a preliminary study in order to realize more in depth information on biodiversity conservation in NB peatlands. The project will focus on rate species and species strictly associated with peatlands (species such as birds, insects and plants). This project consists mainly of an evaluation and comparison between exploited and non-exploited peatlands. This project will also identify the status of certain species and give more information (field and literature).

# Les Amis du Village Historique Acadien Establishment of New Populations of the Endangered Maritime Ringlet Butterfly \$7,150

To monitor Maritime Ringlet population levels in the Village Historique Acadien and Bas-Caraquet marsh complex and to map insect abundance and vegetation location in these marshes.

# Mathieu Charette Understanding Seabird Responses to Change in their Marine Environment And Implications for Conservation Studies \$3,500.

The objectives of this project are to assess whether re-locating gulls away from a tern colony will reduce predatory pressures on terns nesting on Tern Island and to increase tern productivity by reducing pressures on Tern Island and relocating part of the tern colony to a newly established colony.

# **Grand Manan Whale & Seabird Research Station Sheep Island Tern Restoration**

\$7,000.

To restore a nesting colony of common terns on Sheep Island by creating a "gull-free" area where the terns have been initiating nests.

Denis Doucet, UdeM - Moncton Evaluating Wildlife Indicators of Biological Integrity in a Managed Forest Landscape

\$10,000.

The objective is to develop a scoring system to readily assess biological integrity based on the presence/absence of natural characteristics of mature forest stands (plants, animals and structures). This project is to determine which animal species will best serve as indicators. Intent to provide tool for managers.

# Meduxnekeag River Association Inc. Meduxnekeag Valley Nature Preserve

\$7,500.

Protection of the area's ecological diversity including wetlands, mature conifer stands, and a significant number of sites of mature Appalachian Hardwood Forest; improve public awareness of local ecology and the importance of conservation and encourage other landowners in the Meduxnekeag Valley.

François Fournier, UdeM - Moncton
The determination of a Physiological Index of Habitat Quality for Ovenbirds
In Northwestern New Brunswick \$3,000.

Development of an index of habitat quality based on body condition of ovenbirds.

Jérôme Lemaître, UdeM - Moncton
Effects of Silvicultural Intensisty on Pileated Woodpecker Presence and Foraging
Patterns in Northwestern New Brunswick \$8,000

To determine effects of a variety of combinations of silvicultural treatments on occurrence of, and use of stands by PWP. Effects described at stand and landscape scales.

## TOTAL FOR THESE BIODIVERSITY RELATED PROJECTS: \$172,040.

# Ducks Unlimited Canada DU Adopt-a-Class Wetland Field Trip Program

**\$19,000.** 

The main objective is to teach grade IV students about wetlands through a field day activity in their community.

# New Brunswick Wildlife Federation Youth Waterfowl Hunter Education Program Conservation Through Education

\$23,750.

To continue development and delivery of a series of bilingual teaching units to education student ages 13-17 about wildlife ecology and conservation; to format the high school education program for delivery in Francophone schools throughout the Province and to offer two "Waterfowler Heritage Day" events in New Brunswick in the fall of 2002.

### New Brunswick Wildlife Federation Outdoor Heritage Camp Program

\$42,685.

The immediate objective is to operate one week Outdoor Camp providing education on fishing, wildlife, trapping and biodiversity activities and certification in Firearm Safety/Hunter Education and Bow Hunter Education.

#### NB Federation of Naturalists Summer Youth Nature Camps-A Chance to Explore the World Around You \$14,250.

To operate a bilingual camp for 9-13 year olds focusing on conservation issues and fostering an appreciation of wildlife of all species.

# NB Trappers and Fur Harvester Federation Follow-up to NB FurBearers School Program Initiative

\$5,225.

Development of eight fur kits for use in school.

# Albert County Hunter's Association "Look Before you Shoot"

\$3,325.

To place 1000 "Look Before You Shoot" signs throughout New Brunswick via Fish and Game Clubs.

### Piper Project/NB Federation of Naturalists Birds of Prey Outreach Program Development

\$7,125.

To place educational signs on beaches and to implement a pilot project in the schools in conjunction with a trial of the species at risk kit being developed by the NB Federation of Naturalists.

# Nature Conservancy of Canada Musquash Estuary Stewardship Program

\$19,000.

To ensure the ecological integrity and biodiversity of the Musquash estuary is maintained by establishing a land stewardship program.

#### Hammond River Angling Association Hammond River Watershed Youth Conservation Day Camp

\$14,250.

Day camp to introduce kids to a variety of activities including snorkeling, fly tying, angling, kayaking, observing and recording wildlife, tree and plant identification. Focuses on ages 7 to 12 and 13 to 15.

### Club d'ornithologie du Madawaska Ltée Projet de conservation des marais du Madawaska – Phase IV

\$19,000.

Expand 3-hour education program regarding marshes and wetlands to grades 10, 11 and 12 in school district 3 and to grades 8 and 9 in schools in district 14. Map out specific mini and micro marshes.

# NB Wildlife Trust Fund WOW Magazine

\$30,000.

To provide NB English grade IV with WOW magazine.

# NB Wildlife Trust Fund Province Wide Hunter Education Youth Program

\$10,730.

To provide all youth throughout the province interested in taking the Firearm Safety/Hunter Education course, Trapper course, or the Bowhunter course between the ages of 13-16 with the required manuals to take the course.

## **Tantramar Wetlands Centre Experience Wetlands Education**

\$12,000

The objective of this project initiative is to promote wetland conservation by improving public awareness, understanding and appreciation of wetland ecosystems through the direct involvement of 1000's of New Brunswickers in experiential education programs designed to excite as well as inform.

Maritime Atlantic Wildlife Birds of Prey Outreach Program Development

\$5,000.

Educate public about native birds of prey by creating a centre to house birds for display to the public and develop literature for NB schools.

TOTAL FOR THESE EDUCATION RELATED PROJECTS: \$225,340.