

**NEW BRUNSWICK WILDLIFE TRUST FUND
LIST OF PROJECTS APPROVED
1999**

FISHERIES

Nepisiguit Salmon Association **\$20,000.**
1999 Salmon Enhancement Program

The Nepisiguit Salmon Association is proposing a program designed to assess and enhance the Atlantic salmon resource in the Nepisiguit, Middle, Tetagouche, Nigadoo and Bass rivers, leading to mainly self-sustaining optimum returns of Atlantic salmon on a consistent, annual basis.

Miramichi Salmon Association **\$8,500.**
Miramichi Salmon Association Satellite Rearing Assessment

Assessment of the best stocking locations on the brooks and rivers where the fish are to be released. This project can help locate new and better habitat to ensure a higher chance for survival during a salmon's early years of life.

Comité Sauvons nos Rivières de Néguaac **\$7,000.**
Rehabilitate McKnight Stream in Neguac Village

The streams flowing through Neguac Village have been altered by new road and bridge construction and past forestry activities. They need to be restored to their natural meander. Fish habitats ravaged by various influences require rehabilitation.

Richibucto River Association **\$9,320.**
Richibucto River Water Quality Improvement

The main objective of this project is to restore and enhance aquatic habitat for brook trout and Atlantic salmon and to decrease fecal coliform levels due to organic loading and to initiate a plan to re-open closed shellfish areas.

Atlantic Salmon Federation **\$18,250.**
The Magaguadavic River: Desperate measures for desperate times

The salmon of the Magaguadavic River are now poised on the brink of extinction. This proposal requests funding to address critical issues that are impacting on the river's salmon, and start developing an emergency recovery program for the river.

Management of salmon of the Restigouche and its Tributaries **\$8,300.**
M.S.R.T. Hatchery Facility

To install fiberglass roofing on the main building and to construct a modest building for winter storage.

New Brunswick Salmon Council Inc. **\$19,000.**
St. John River downstream Smolt Migration Study

To conduct an audit of unpublished studies, to evaluate what can be learned from them and to develop a safe and an effective procedure for downstream smolt migration.

New Brunswick Salmon Council Inc. **\$7,330.**
'99 Catch & Release Public Awareness Campaign

The objective of the "New Brunswick Council's Catch & Release Public Awareness Campaign-1999" would be to increase and heighten the visibility of catch & release angling as a conservation tool on a province wide basis.

Association Chasse et Pêche, Baie et Chaussée Inc. **\$8,100.**
de Pont-Landry
Management of a Model Stream along the Gaspereau Stream – a Tributary of the Little Tracadie River

The funding would be used to finalize development of the trail and the brook. The project consists basically in improving one kilometre of brook and building 0.8 km of trail to heighten the awareness of ACPBC members and the general public and change their attitude about fish habitat conservation and improvement and the recreational fishery.

Jonathan Creek Committee **\$7,830.**
Jonathan Creek Fish Habitat Restoration Project **(MRDC Funds)**

The objective of a Fish Habitat Restoration Program is to rehabilitate physical fish habitat by restoring the physical characteristics of the stream-bed condition that was in prior to human interference.

New Brunswick Cooperative Fish and Wildlife Research Unit, UNB **\$30,280.**
Impacts of alewife on smallmouth bass fisheries in New Brunswick: Part II

To complete final year of assessment of alewife and smallmouth bass interactions in Mactaquac Lake's Lower Arm and Oromocto Lake; and to develop management options required to sustain smallmouth bass fisheries in New Brunswick.

Sussex Fish & Game Association **\$5,000.**
Kennebecasis Speckled Trout and Atlantic Salmon Population Assessment

The goal of the proposed project will be to continue monitoring of the no-kill zone, but more importantly to estimate the effectiveness of the new regulations, as to the number of fish reared since the closure of this pristine section. The association feels that this no-kill zone is an important tool to the management of the Speckled Trout populations. Their goal is to report its positive effects to ensure this regulation change stay in place as long as is necessary.

Tobique Salmon Protective Association Inc. **\$2,620.**
Three Brooks Habitat Improvement Project

Due to clear cutting and several flooding of the Three Brooks Stream, there have been large deposits of gravel at the mouth of Three Brooks where it enters the Tobique River which should be removed.

Omer Chouinard (Université de Moncton) and Omer Brun (Sénateurs et Sénatrices de l'environnement de Cap-Pelé Inc.) **\$10,000.**
Revitalization of Friel Brook in Cap-Pelé

Phase I (installation of digger logs) would narrow the streamflow by displacing the sediment. This will improve oxygenation, creating favorable swim-up conditions allowing trout to spawn in their natural habitat. The project would rally young people, seniors, social groups and the municipality to environmental rehabilitation.

Northumberland Salmon Protection Association **\$16,280.**
Atlantic Salmon Smolt Production from the Northwest Miramichi River

The smolt estimate of 1999 will be the second estimate for the Northwest Miramichi and with the adult return estimate of 1999 will provide the first indication of the sea survival of salmon smolts from the Miramichi River.

Southeastern Anglers Association **\$16,420.**
The Southeastern Watershed Stream Enhancement Project

To increase the salmonid populations by enhancing the quality of fish habitat in streams. To reduce surface erosion and ditch run-off to streams, by using ditch sediment filtering devices, building cow fences and planting trees and seeds to create buffer zone. To continue an intensive habitat restoration project, by using cost-effective habitat restoration devices and/or practices which will restores the natural hydrology pattern of each streams.

Dr. Matthew K. Litvak, UNB **\$14,000.**
**Ecology and Status of the Endangered Shortnose and
Atlantic Sturgeon on the Saint John River System**

There have been no population estimates on the shortnose in the Saint John River system for the past 23 years. In order to develop a conservation plan we need to provide up-to-date estimates of the population size, size structure, and growth rates. (Second year of funding). The sturgeon is rapidly becoming a popular sport fish in New Brunswick. This information is essential for effective management.

Kennebecasis Salmon Association **\$19,550.**
The Upper Kennebecasis River Restoration Project 1999

The objectives of this project are to restore sections of the upper Kennebecasis Watershed to work toward re-establishing its once pristine condition. These activities will help farmers combat these severe erosion that is taking place on their farms. Many farmers on the system have lost a lot of land to erosion, detrimental to the spawning beds of salmon and trout. Therefore a great emphasis will be put on bank stabilization using techniques successfully used in the past by the Trout Creek Model Watershed Committee.

Miramichi Watershed Management Committee **\$28,575.**
Fish Stocking 1999 (Southesk Hatchery)

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

St. Croix International Waterway Commission **\$10,000.**
1999 St. Croix Salmon Development Program

The objectives of the 1999 program are: habitat assessment, river-specific stock development, stocks assessment and fish passage.

Miramichi Headwaters Salmon Federation Inc. **\$5,000.**
North Branch Salmon Barrier

This project is for the operation of Juniper salmon barrier and the satellite rearing.

Fredericton Fish & Game Association **\$5,500.**
Nashwaak River Fish Survey

To conduct fish density measurements and one fish population survey on each of the 13 tributaries

Association des Loisirs, Chasse et Pêche de la **\$8,500.**
Rivière Pokemouche Inc.
Salmonid Habitat Management Program

To restore the habitat of the upstream portion of the river and its main tributaries.

Club Loisir de la Rivière Caraquet Inc. **\$3,600.**
Fish Habitat Restoration

To restore the habitat of the upstream portion of the river and its main tributaries.

Club Chasse & Pêche Grande Rivière Inc. **\$6,500.**
Rehabilitation of the Big Tracadie River

Inventory of salmonid populations along the Big Tracadie River.

St. John Salmon Association **\$7,500.**
Salmon Rearing Operation, Monitoring, Evaluation Program

This project will include the operation, maintenance and evaluation of two current satellite rearing sites (Becaquic and Shiktehawk) and one new site on the Presque Isle Stream.

Tobique Salmon Protective Association Inc. \$15,000.
St. John River Downstream Smolt Migration Study

To monitor the autumn emigration of presmolts from the Tobique River system; assess the initial timing and duration of emigration and the environmental conditions that influence the fish movements; tag and release presmolts above and below each of the three reservoirs to assess the feasibility of a trap and truck program for presmolt around the dams.

Miramichi Salmon Association Inc. \$5,000.
Autumn Brook Survey

Continuation of the 1998 survey of brooks on the Miramichi River System: identify the tributaries which provide spawning habitat for salmon and grilse.

Association Chasse et Pêche du Haut de la Vallée St-Jean \$7,125.
Installation of Ponds

To install ponds adjacent to a brook to continue growing out fish under natural conditions before using them to stock watercourses in the fall.

Richard A. Cunjak, UNB \$2,400.
Field Course on River Habitats (Miramichi)

The primary aim of the course is the teaching of science graduates, conservationists, and aquatic resource professionals about how large river ecosystem in New Brunswick function.

Kennebecasis River-Watershed Restoration Committee \$20,000.
Ward's Creek Restoration Project

To restore Ward's Creek to enhance the fish habitat and improve the water quality and temperature.

ACAP Saint John **\$9,000.**
Upper Hazen Creek Stream Recovery

The primary objectives of this project are: conduct qualitative surveys of the condition of the upper tributaries of Hazen Creek; sample and analyze water samples; rehabilitate two of the Hazen Creek tributaries; record basic physical measurements of Red Head Marsh; identify a potential trail system throughout the Red Head Marsh; and conduct a biological and habitat assessment of Hazen Creek.

Girl Guides of Canada **\$2,000.**
Canadian Mosaic '99

To buy fishing equipment for an activity called "Something Fishy" where they will be introducing the teenaged girls to the sport of fly fishing. The session will be repeated 12 times over the 6 program days to include approximately 300 participants.

New Brunswick Cooperative Fish and Wildlife Research Unit **\$5,000.**
A Rapid and User-Friendly Tool to Measure Stream Ecosystem Health

Test statistical models of stream ecosystem health being developed for the Petitcodiac River watershed; develop from the models, a rapid and user-friendly for use by non-professionals.

Southeastern Anglers Association **\$13,000.**
Southeastern Watershed Stream Enhancement Project

To enhance the quality of fish habitat and to increase the fish population. To continue an intensive stream re-engineering project on cold water streams, to restore natural pool, riffles, meanders and buffer zones using hydrology principles and techniques to restore salmon population.

Tabusintac Salmon Club
Juvenile Salmonid Instream Production
Tabusintac Fish & Game
Sea Trout on Tabusintac River **\$20,000.**

To determine densities and PHS of juvenile salmonids; determine habitat preferences; time series of instream survival rates and determine sea survival; assess Atlantic salmon returns and sea-run trout abundance.

Atlantic Salmon Museum **\$8,800.**
GIS Based Habitat Area Quantifications, Restigouche River

The objectives of the proposed study are to quantify the habitat area in the Restigouche River on a tributary basis and to integrate the data into the provincial repository of aquatic information.

Charlo Salmonid Enhancement Centre, Inc. **\$28,000.**
Charlo Salmonid Enhancement Centre

Funding to operate the Charlo Hatchery

Coalition Stillwater **\$4,400.**
Fish Habitat Inventory and Fish Inventory – Stillwater Brook

The objective of the proposed activity is to do a detailed inventory of the fish habitat and a diagnosis of the fish in Stillwater Brook.

New Brunswick Cooperative Fish and Wildlife Research Unit **\$4,000.**
Detection of Gene Flow Between Resident and Sea-Run Brook Trout

To determine the gene flow rate among populations of brook trout in the Miramichi River and to provide direction for appropriately managing the genetic integrity of brook trout in the region and across the province.

Keswick River Society Incorporated **\$10,000.**
Keswick River Watershed Enhancement Project

To review the fisheries and aquatic projects; to assess the watershed and identify problems; to prioritize required rehabilitation; and to prepare a five year strategic planning document.

New Brunswick Salmon Council Inc. **\$19,000.**
**Development of an Equipment Pool of Rotary Screw Fish
Traps for the New Brunswick**

To purchase a Rotary Screw Fish Trap for use on New Brunswick rivers.

TOTAL FOR THE FISHERIES PROGRAM: \$475,680.00

WILDLIFE

Sussex Fish & Game Association **\$10,000.**
Grouse Habitat Rehabilitation Project

The proposed project will focus on the rehabilitation of old abandoned apple orchards to enhance natural production of fruit, essential in the diet of many local animal species. The first phase of the project will concentrate on the identification of old apple orchard in the greater Sussex area. Using aerial photographs, and land use maps, orchards will be identified and classified as to their size, degeneration stage, location, accessibility and land ownership.

Northumberland County Woodlot Owners Association **\$19,000.**
Deer Wintering Area Management on Miramichi
Watershed Private Woodlots

The objective of this project is to locate and map groups of deer which have concentrated during critical winter conditions and consequently define the important habitat areas which will likely involve several to many small woodlots. Once any new important Deer Wintering Areas have been located and information on known sites is reviewed the landowners can be identified and contacted to see if they would like to participate in a deer management project. This will involve some education and salesmanship.

Ducks Unlimited Canada **\$10,000.**
Waterfowl Nest Box Project

The objective of this project is to develop and implement a sustainable, volunteer based nest box program on the lower St. John River.

Ducks Unlimited Canada **\$38,240.**
Wetland conservation Education Program

The opportunity "Adopt-A-Classes" across New Brunswick to participate in a number of regional field days and the continued enhancement of the materials and equipment required for the delivery of the conservation education program.

Maritime Atlantic Wildlife **\$20,350.**
The Bird of Prey Project

Installation of a large flight aviary and isolation enclosures. This is to assist in the recovery of injured raptors. There is at present no facility of this nature in the province.

New Brunswick Wildlife Federation **\$14,885.**
Public Awareness Outdoor of Activities Project

To provide a communication function between the various organizations involved in outdoor activity; to increase the knowledge of involved organizations in availability of resources, existing programs; to initiate cooperative efforts between groups to focus on key outdoor activity issues such as habitat preservation and youth involvement in the outdoors.

Dr. A.W. Diamond, ACWERN, UNB **\$15,000.**
Viability of the Common Eider Population in the Bay of Fundy

The objectives of the study are to measure juvenile survival and age at first breeding in N.B. eiders in the Bay of Fundy and to characterize the extent of genetic variation within and between Common Eiders throughout the breeding range of *Somateria mollissima dresseri* (Common Eiders).

Communauté en Action pour la protection
De la faune et de son Habitat **\$8,724.**
Wildlife Awareness 1999

Put signs in about 75% of the hunting zone no. 1 for a consciousness-raising campaign.

Carvel G. Crandlemire **\$18,825.**
Mount Pleasant Wildlife Rehabilitation

The objective is to improve existing rehabilitation facilities to make them a more suitable temporary refuge for injured and orphan wildlife.

New Brunswick Wildlife Federation **\$32,000.**
Development of a Waterfowl Hunter Education Program in New Brunswick

To organize 5-10 waterfowl hunting workshops prior to the 1999 waterfowl hunting season; and to provide training materials in support of the waterfowl hunting workshops.

Ruffed Grouse Society of Canada **\$4,125.**
Joint Private Landowner/Crown Forest Initiative on
The Ecology Management and Habitat of Ruffed Grouse

To conduct a two-day seminar to outline management techniques that enhance wildlife growth and sustenance.

New Brunswick Wildlife Federation **\$48,000.**
Outdoor Heritage Education Program

The purpose of the Outdoor Heritage Education program in New Brunswick is to create educational opportunities. Youth will gain knowledge in fish, wildlife and habitat conservation and in outdoor recreational opportunities.

Sussex Fish & Game **\$10,000.**
Grouse Habitat Rehabilitation Project (Phase IV)

The main objective of this rehabilitation program is to create habitat and a natural food source to preserve and enhance Ruffed Grouse populations and a diversity of animal populations.

Tantramar Wetlands Centre **\$5,000.**
Experience Wetlands Education

The objective of this project activity is to improve the Tantramar Wetlands Centre's effectiveness in providing public education pertaining to wetlands.

TRAPPING

New Brunswick Trappers and Fur Harvesters Federation **\$11,500.**
Trapper Education School Program

The purpose of this school program is to inform youth about the benefits of trapping to society and wildlife.

TOTAL FOR WILDLIFE PROGRAM: \$265,649.00

BIODIVERSITY

Marc Mazerolle/Kouchibouguac National Park **\$4,500.**
Amphibian Movements and Reproduction in Fragmented Peatlands

The overall objective is to ascertain the impact of drainage canals on amphibian populations in harvested peat bogs and the importance of peat bog ponds.

New Brunswick Federation of naturalists/Piper Project **\$4,550.**
Tabusintac Tern Project

The objective of this project is to protect the last colony of terns through enlisting public support via an education campaign, and a voluntary change in the behavior of people towards the species and its habitat.

Daly Point Management Committee **\$8,500.**
Establishment of new population of the endangered Maritime Ringlet Butterfly

To establish a new population of the Maritime ringlet in a provincially owned salt marsh complex near the Historical Acadian Village; and to monitor population numbers of the Maritime Ringlet in the salt marsh complex near the Historical Acadian Village and Bas Caraquet.

Southern New Brunswick Wood Coop Ltd **\$19,500.**
Southern New Brunswick Conservation Stewardship Project

This project was designed to provide follow-up for private landowners within the Fundy Model Forest whose properties are part of the sites previously identified by the Gap Analysis project as having special ecological value. This proposal will cover Year Three of the project.

Conservation Council of New Brunswick and Union of **\$2,500.**
New Brunswick Indians
A Preliminary Examination of Mercury Levels in Otter and
Smallmouth Bass in the St. John River

The study will be comprised of two main objectives: the preliminary examination of mercury levels in piscivorous (fish-eating) wildlife i.e., the otter and; the preliminary examination of mercury levels in piscivorous fish i.e., the smallmouth bass.

Celebration of Birds '99 Planning Committee **\$2,000.**
Celebration of Birds '99

The primary goal of the Celebration of Birds '99 is to develop an appreciation among the residents of the Greater Gagetown Area as well as other New Brunswickers for the great abundance and diversity of bird life found in this area, and in doing so, foster a conservation ethic for the habitats on which the birds depend.

1st Tantramar Cub Packs **\$3,000.**
Swallow Habitat Creation

Swallow Habitat Creation will design and create habitat for the following species of breeding swallows native to New Brunswick; Bank, Cliff, barn and Northern Rough-winged.

New Brunswick Cooperative Fish and Wildlife **\$9,980.**
Research Unit, UNB
Status of the "Vulnerable" Dwarf Smelt and Implications for
Fisheries Management in Lake Utopia

The information will allow managers to determine: 1) if the apparent dwarf and normal smelt are genetically distinct and if not, the degree of gene flow between forms; 2) their respective abundances in the lake; 3) their respective vulnerability to salmon, trout, and bass predators; and therefore, 4) the true status of dwarf smelt and requirements for their conservation in Lake Utopia.

Dr. Graham Forbes, UNB **\$18,600.**
Lynx Ecology in Northern New Brunswick

To determine distribution of lynx in New Brunswick; to establish movement rates in order to assess if "pockets" of productivity exist and to determine habitat use at large scale (pockets) and small scale (den, sites, stands).

Woodstock Rotary Club **\$7,500.**
Meduxnekeag Valley Nature Reserve

The primary objective of this project is to fund the purchase of 148 acre property and construct a low-impact trail system with educational signage and interpretation centre, to preserve and protect a key patch of Appalachian Hardwood Forest for future generations.

Marc-André Villard **\$6,080.**
**Evaluation of the Effects of Forest Felling in
Northwestern New Brunswick using Indicator Species**

Assess the impact of current forest felling practices on the long-term viability of the populations of the two indicator species: the pileated woodpecker and the ovenbird.

The Nature Conservancy of Canada **\$10,000.**
Dorchester Cape Shorebird Sanctuary

The objective of this land acquisition project is to protect shorebirds, waterfowl and other wildlife in the area by securing strategic shorebird roosting beaches, adjacent uplands, salt marshes and other coastal habitats, in order to consolidate the area of land protected.

New Brunswick Fish and Wildlife Research Unit, UNB **\$14,760.**
Lynx Ecology in Central and Northern New Brunswick

To determine distribution of lynx in New Brunswick; to establish movement rates in order to assess if “pockets” of productivity exist ; and to determine habitat use at large scale (pockets) and small scales (den sites, stands).

Atlantic Canada Conservation Data Centre **\$7,500.**
New Brunswick status rankings and documentation of occurrence of species at risk

To compile conservation status ranks for bird, mammal, freshwater fish, butterfly, and dragonfly and damselfly species in NB; to prepare reports on the conservation status ranks for the above taxonomic groups; to compile occurrence information for New Brunswick’s animal species of conservation concern; and to share the occurrence information with every organizations that have need for such information for decision-making concerning biodiversity.

TOTAL FOR THE BIODIVERSITY PROGRAM: \$118,970.00