

NEW BRUNSWICK WILDLIFE TRUST FUND

LIST OF PROJECTS APPROVED 1998

FISHERIES PROGRAM:

Atlantic Salmon Federation **\$40,000.**
Development of an equipment pool of smolt wheels

This project will be to build an equipment pool that will be accessible to all fish related organizations in the province of New Brunswick.

Nepisiguit Salmon Association **\$20,000.**
Nepisiguit Salmon Assessment & Enhancement

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

Eel Ground Community Development Centre **\$10,000.**
First Nation Brook Enhancement

Restoration of the McKay Brook which runs a course through the Eel Ground Indian Reserve.

Bartibog Fish & Game Association **\$ 3,500.**
Bartibog Trout Relocation Investigations

To evaluate the potential benefits of relocating small brook trout from headwater tributaries, to downstream locations where these fish have a better opportunity to grow and make a more valuable contribution to sportfishing.

Miramichi Salmon Association **\$ 8,000.**
Miramichi Salmon Association Satellite Rearing Assessment

Assessment of the best stocking locations on the brooks and rivers where the fish are currently 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.

Miramichi Headwaters Salmon Federation Inc. **\$ 9,000.**
North Branch Salmon Barrier

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

St. Croix International Waterway Commission **\$20,000.**
1998 St. Croix Salmon Restoration Program

The objectives of the 1998 program fall into four categories: habitat assessment, river-specific stock development, stock assessment and fish passage.

NB Cooperative Fish & Wildlife Research Unit, UNB **\$29,100.**
Impacts of alewife on smallmouth bass fisheries in NB

To assess interactions of alewife and smallmouth in Mactaquac and Oromocto Lakes and to develop management options that sustain smallmouth bass fisheries and lake biodiversity in New Brunswick

Tobique Salmon Protective Association Inc. **\$13,000.**
Two Brooks Habitat Improvement Project

To provide better holding area for fish and better angling opportunities. Pools created by digger logs will provide habitat for trout and salmon fry and fingerlings.

NB Cooperative Fish & Wildlife Research Unit, UNB **\$10,600.**
Migration and movement of sea run and resident brook trout
In the Kennebecasis River

To complete the final year of migration and movement assessments of brook trout at McCully Station in the Kennebecasis River.

Miramichi Watershed Management Committee Ltd. \$40,000.
Hatchery Operation

This is a grant to assist in the first operations of the hatchery.

Meduxnekeag River Association \$ 7,500.
Meduxnekeag Watershed Enhancement

To conduct a habitat assessment in respect to current state of habitat, riparian zones, erosion, water quality, aquatic vertebrate and invertebrate populations and identify pollutants, to conduct any habitat restoration necessary, and to inform and educate land owners and users of the ecosystem and protect the same for future generations.

Nashwaak Watershed Association Inc. \$15,000.
Assessment and Enhancement Project

Stream restoration and satellite rearing project.

Association Chasse et Pêche, Baie et Chaussée Inc.de Pont-Landry \$10,600.
Management of a Model Stream along the Gaspereau
Stream – a Tributary of the Little Tracadie River

To finalize the model stream management and to continue the efforts to seed, protect and revitalize the trout population and the trout fishery in the region.

New Brunswick Salmon Council Inc. \$ 6,500.
Catch & Release Public Awareness Campaign

The objective of the “New Brunswick Salmon Council’s Catch & Release Public Awareness Campaign” would be to increase awareness and heighten the visibility of catch & release angling as a conservation tool on a province wide basis through a number of initiatives.

New Brunswick Salmon Council Inc. \$42,000.
St. John River Downstream Smolt Migration Study

To determine the initial time of spring smolt migration in the Tobique and St. John rivers; to determine the rate of movement of smolt as they descend the three dams and; to determine if the Mactaquac headpond stops or delays the seaward migration.

Magaguadavic River Salmon Association **\$7,000.**
Interactions between wild and escaped cultured salmon
in the Magaguadavic River

They propose a research project to examine the interactions between wild and cultured salmon in the Magaguadavic and selected nearby rivers.

Hammond River Angling Association **\$12,000.**
Assessment

Counting fence and stream access project

Southeastern Anglers Association **\$20,000.**
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.

Shepody Fish & Game Association **\$ 2,150.**
West River Habitat Restoration

The goal of this project is to attempt to reestablish a permanent stream flow in this section of the West River (1 km upstream of route 114).

Geenap Committee **\$40,000.**
Charlo Salmonid Enhancement Centre Inc.

This is a similar grant to the one awarded to the South Esk hatchery to assist with their start-up costs.

Eagle Valley Adventures **\$20,000.**
Upper Saint John Valley Brook Trout and
Landlocked Salmon Enhancement Project

To collect baseline habitat, water quality and population data describing the existing status of brook trout and landlocked salmon resources in the Saint John (upstream of Clair), Saint Francis and Little Rivers; and in Grew, Foley, Sylvain, Vasseur and Thompson Brooks.

Northumberland Salmon Protection Association **\$16,000.**
Atlantic Salmon Smolt Production from the
Northwest Miramichi River

The objectives of this study are to quantify the Atlantic smolt production from the Northwest Miramichi in 1998 and to compare the production estimates of smolts to the parr densities from the previous year.

M.R.S.T. **\$10,000.**
Hatchery Facility

To purchase and install a pump to provide suitable water temperatures to the facilities

Sussex Fish & Game Association **\$30,000.**
Musquash Brook Restoration Project

The activities proposed are designed to reduce bank erosion and re-establish fish habitat. Stream enhancement structures will be placed in-stream to restore fish habitat by forming pools and reducing channel width.

Dr. Rick Cunjak, UNB **\$ 5,000.**
Population Genetics of Atlantic Salmon in
Catamaran Brook

To determine the absolute fitness of each spawning adult salmon in Catamaran Brook by assessing relatedness of smolt emigrants

Miramichi Watershed Committee Inc. **\$20,410.**
Exposure of Striped Bass to Wastewater in the Miramichi Estuary during Winter

To determine the winter distribution of striped bass in the Miramichi Estuary and its relationship to known and planned point source discharges

Miramichi Salmon Association **\$ 4,380.**
Autumn Brook Survey

The project involves a survey of brooks and streams on the Miramichi River System and would be to identify the tributaries, which provide spawning habitat for salmon and grilse.

Richibucto River Association **\$10,000.**
Brook Trout & Atlantic Salmon Stocking in the Richibucto River

To assess the habitat and population of wild brook trout and Atlantic salmon in Richibucto River.

Sussex Fish & Game Association **\$ 7,650.**
Stock Assessment of Atlantic Salmon in the Kennebecasis River

To provide a third, consecutive year of Atlantic Salmon stock assessment on the Kennebecasis River, lower Saint John River watershed.

New Brunswick Sportfishing Association **\$ 9,200.**
Towards the sustainable use of New Brunswick's Smallmouth Bass Resources

To assemble various databases and information from government and local conservation groups on the status of smallmouth bass waters in New Brunswick and to establish research hypotheses, experimental design, and study sites.

New Brunswick Salmon Council Inc. **\$10,500.**
Development of a thermal monitoring System
For New Brunswick Salmon Rivers

The project will place one recording thermometer in each of the salmon rivers looked after by a recognized, responsible watershed management group. This will provide valuable information never before available.

Hammond River Angling Association **\$10,000.**
Habitat Video

This project will create and distribute an aquatic habitat video. The video will educate the public about aquatic biology, discuss habitat restoration, teach habitat management techniques, and challenge the audience to initiate stream/river projects in their areas.

Dr. Matthew K. Litvak, UNB **\$15,965.**
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 sturgeon in the Saint John River system for the past 22 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.

“Truck For Tags” Project **\$30,000.**
**Miramichi Salmon Association/Atlantic Salmon
Federation/NB Salmon Council/NB Wildlife
Council/Dept of Natural Resources and Energy**

This year, Atlantic salmon anglers who practice catch and release and return all eight of their salmon tags at the end of the angling season will be entered into a draw for a chance to win a four-wheel drive sports utility vehicle.

TOTAL FOR THE FISHERIES PROGRAM: \$565,055.00

WILDLIFE PROGRAM:

**Dr. Graham Forbes, NB Cooperative Fish and
Wildlife Research Unit, UNB** **\$6,000.**
Estimating Size of Otter Populations in New Brunswick

To assess a new technique for determining otter density; to establish a population estimates for otter in New Brunswick.

Ducks Unlimited Canada **\$31,400.**
Wetland Conservation Education Program

The development of an Education Marsh at the Corbett Brook to provide a learning opportunity to participants; the development and implementation of two new education programs: “It’s not Easy Being Green: and “The Value of Wetlands” and; the creation and implementation of a volunteer program to assist in program delivery.

William A. Cooper **\$10,000.**
Cavity Nesters Welcome

To increase the number of cavity nesting waterfowl in the Saint John River Valley by providing more nesting opportunities and subsequent evaluation of its effectiveness in collaboration with Ducks Unlimited.

**Dr. Graham Forbes, NB Cooperative Fish and
Wildlife Research Unit, UNB** **\$62,000.**
Assessing Health of Deer in New Brunswick

To establish reasons why deer numbers in northern NB are low; to determine health of New Brunswick deer as it relates to habitat; to determine mortality factors of deer in north, central, and southern NB; to relate data to a population model used in harvest management, and to relate data to existing deer forest management initiatives.

Centre for Property Studies, UNB **\$19,500.**
**Achieving Biodiversity and Habitat Conservation
On Private Land**

To design an integrated policy instrument based on: income tax and property reform; and a stewardship ethic, that could reconcile private property rights and benefits with the public good on private woodlots.

**NB Outfitters Association, NB Wildlife Federation
and NB Federation of Woodlot Owners** **\$51,850.**
Supplementary Deer Feeding Experiment

To assist and aid in the survival of whitetailed deer populations in their critical wintering areas by providing them with an emergency supplement of man made and natural foods; to determine the most efficient means of delivering relief to deer in distress; to determine if emergency feeding of deer is viable; to compare mortality/survival rates in populations that have received aid as opposed to those that have not and; to develop methodology that would assist in the recovery of deer populations to the provinces habitat carrying capacity. This is in conjunction with Dr. Forbes' study (W98-005).

**New Brunswick Outfitters Association/
New Brunswick Wildlife Federation and
New Brunswick Federation of Woodland Owners** **\$40,000.**
Whitetail Resource Enhancement Program

Emergency deer feeding and attracting deer away from highway in areas of high mortality due to vehicle collision.

Maritime Atlantic Wildlife **\$20,000.**
Wildlife Rehabilitation and Education Program

To enable this facility to operate year round so that long term wildlife care can be provide to rehabilitate and restore animals to the wild.

New Brunswick Wildlife Federation **\$ 6,530.**
Junior conservation School

The main objective of the Junior Conservation School program is to promote to the upcoming generation, conservation, wildlife management, forestry, biodiversity and outdoor recreation.

NB Waterfowlers Association **\$ 5,000.**
Project Landlord

To establish a database of new and existing sites, and combine with existing manual data and to establish data collection procedures for future data capture and management.

Ducks Unlimited Canada **\$ 5,800.**
Corbett Brook Education Marsh

DU has revised its structural plans for the boardwalk system of the project resulting in a higher cost. The revised structure will not only provide a longer life expectancy for the boardwalk, but will also provide for a more meaningful experience, as it will always be in closer proximity to the water regardless of the water levels.

Ducks Unlimited Canada **\$10,000.**
Legacy Greenwing Marsh Project Enhancement

The enhancement of the George Slipp Legacy Greenwing Marsh, Palmer Creek and Larry's Marsh is to provide the public an opportunity to see first hand an actual wetland habitat project.

Ducks Unlimited Canada **\$12,000.**
Small Marsh Project

The objective of this project is to improve the ratio of open water to emergent vegetation on four small wetlands (in the fertile agricultural zone that borders the St. John River between Woodstock and Edmundston) to make these habitats more attractive to waterfowl and other wetland wildlife.

Nature Conservancy of Canada **\$12,500.**
Tabusintac Wetland Securement Project

To secure two wetland properties through land acquisition. The two properties are located on the northeastern shore of the province of New Brunswick, just north of where the Miramichi Bay meets the Northumberland Strait. It is approximately 40 km northeast of the newly incorporated City of Miramichi. The properties are located off Highway 11, at the end of Chemin de bar, east of Pontgrave.

New Brunswick Wildlife Trust Fund **\$15,000.**
Increasing Recruitment to Hunting

There has been a 50% decrease of the number of hunting licences sold annually since 1986. To stem this trend, it is proposed to hire one person for two months to explore how those states and provinces which have been successful in maintaining or increasing their numbers have achieved it.

TOTAL FOR THE WILDLIFE PROGRAM: \$307,580.00

BIODIVERSITY PROGRAM:

Mr. Hugh Thompson **\$2,750.**
McAlmon Island – Richibucto River

To buy this Island in conjunction with Eastern Habitat Joint Venture, and Mr. Hugh Thompson to conserve an endangered tern nesting habitat.

***Flora of New Brunswick* Revision Committee, UNB** **\$ 2,000.**
The *Flora of New Brunswick* Revision Project

This project is to revise and update the *Flora of New Brunswick*, first published in 1986.

Mr. Harold Hinds, Connell Memorial Herbarium, UNB **\$ 2,600.**
Status Report Updates for Endangered NB Plant Species

Knowledge of the current status of listed endangered species is required to effectively enforce their protection and to plan for their recovery if necessary.

Marc-André Villard, University of Moncton **\$ 6,000.**
Forest Cuts and the Viability of Bird Populations
of Hardwood Stands in Northwest NB

Many species of birds are sensitive to the effects of selective cuts and it is important to understand the impacts of these cuts in order to maintain the long-term viability of these populations.

Conservation Council of New Brunswick **\$ 5,000.**
Loons Under Threat: Poster and Educational Material

Educational campaign that will raise awareness of the sources and impacts of persistent toxic chemicals, in particular mercury, on New Brunswick loon population.

Nature Trust of New Brunswick **\$5,000.**
Endangered Habitat Ecological Mapping

To produce a mapping database which will display the ecological background in which the remnant patches of Appalachian Hardwood Forest in Carleton and Victoria counties are set. It will locate forest types, wetlands, significant wildlife habitat, cold/warm streams, and other significant ecological features as well as settlement and land use patterns.

L'Association Chasse & Pêche de l'Île Lamèque Inc. **\$ 8,700.**
Ruffed Grouse Habitat Management Techniques

To create improved habitat where ruffed grouse can reproduce.

Rudolph Stoczek **\$ 4,975.**
Monitoring New Brunswick's Bald Eagle Breeding Population

The 1998 monitoring of the eagle population in New Brunswick is part of an on-going project started in 1974.

NB Federation of Naturalists/Piper Project **\$ 7,150.**
Coastal Guardians Program

To reduce human disturbance in coastal habitats, particularly in the more fragile zones that the Piping Plover uses, to continue to meet with landowners to inform them about the monitoring activities and to educate the public about coastal ecosystems and the Piping Plover.

Marc Mazerolle/Kouchibouguac National Park **\$ 4,000.**
Amphibian Communities in Fragmented Peat Bogs in Southeastern New Brunswick

As one of the primary steps in bog exploitation involved water drainage, this project seeks to examine the effects of exploitation of peat bogs on amphibian communities.

Daly Point Nature Reserve **\$ 9,000.**
Recovery of the Endangered Maritime Ringlet

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 and release additional adults in the salt marsh at Bas Caraquet.

Southern New Brunswick Wood Co-operative Ltd **\$15,000.**
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. The project will facilitate the securement of a number of ecologically significant areas within the FMF that are in need of protection.

Village of Gagetown **\$ 2,500.**
Celebration of Birds '98

The primary goal of the Celebration of Birds '98 is to develop an appreciation among the residents of the Gagetown Area and other New Brunswickers for the great abundance and diversity of bird life found in the area and in doing so foster a conservation ethic for the habitats on which they depend.

Nature Trust of New Brunswick \$ 4,600.
French Language Handbook: Conservation
Options for New Brunswick Landowners

To have the recently produced "Conservation Options" handbook available in French, so that it may be distributed to, and studied at length by landowners, in their mother tongue.

Société d'aménagement de la rivière Madawaska
et du Lac Témiscouata \$ 7,500.
Community Management of Madawaska River Wildlife

To study animal populations through habitat and wildlife inventories and to determine the population trends; to elaborate on the control mechanisms affecting wildlife through the development of a management and protection strategy for habitat and by encouraging government intervention; and to sensitize property owners and implicate them in the research.

TOTAL FOR BIODIVERSITY PROGRAM: \$86,775.00