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# CURRENT WILDLIFE PROJECTS IN ALBERTA





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Greg Radstaak  
Wildlife Database Coordinator

## 1. INTRODUCTION

This document contains a listing of wildlife research and projects ongoing in Alberta. This document, although in no way a complete listing of all ongoing wildlife projects in Alberta, may provide information to identify research gaps and to promote greater awareness of the number of individuals and agencies conducting wildlife projects. A mailout was produced and sent to wildlife professionals throughout Alberta. Development of such a document will be a valuable information and networking tool for researchers and wildlife managers in Alberta. A listing of names, phone numbers and addresses also has been added to facilitate communication, coordination and information transfer among people working within the wildlife field throughout Alberta.

The objective of this document is to provide an up to date summary of wildlife activities ongoing in Alberta. Projects covered in this report include the continuum from invertebrate to vertebrate species. In addition, some habitat projects were included as they dealt directly or indirectly with wildlife. Studies have been organized taxonomically. Species, or species groups, within the Orders are organized alphabetically to facilitate searching for studies. Projects that cover more than one order of animals (such as a biodiversity study) are grouped at the end of the report.

It is the goal to keep this document current. An updated version will be produced in 1995. If your study is not included please fill out the Project Form at the end of the document and mail it to the address included on the form.



INTRODUCTION

The purpose of this document is to provide information to identify research gaps and to provide a list of individuals and agencies containing information regarding research gaps. A list of individuals and agencies containing information regarding research gaps is provided in the Appendix. The purpose of this document is to provide information to identify research gaps and to provide a list of individuals and agencies containing information regarding research gaps. A list of individuals and agencies containing information regarding research gaps is provided in the Appendix.

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David B. Clark  
Executive Director



## 2. EXPLANATION OF CATEGORIES

No.- Study Number (148 studies recorded)

Species- Species or group of animals studied

Progress- Year and duration of study

Agency- Primary agency conducting study

Title- Project title and a short description of the study

Pr. Rpt.- Whether or not progress reports are available. Progress reports can be obtained from principal contact.

Contact- The name with the phone number beside it is the principal contact. This person should be contacted for more information about the project.

DND	Department of National Defence
DU	Ducks Unlimited
EC	Environment Canada
ENRC	Earth Resources
FMP	Footbale Model Project
FMCA	Fedichak, McCullough and Associates
GAL	Golder Associates LTD
GCS	Gala Consultants
HBT AGRA	AGRA Earth and Environmental
HO	Hobby Oil
MELP	(British Columbia) Ministry of Environment, Lands and Parks
MHRC	Manitoba Habitat Heritage Corp
MBWRC	Medicine River Wildlife Rehabilitation Centre
NAIT	Northern Alberta Institute of Technology
NAWMP	North American Waterbird Management Program
NSAC	Northern Surgeon Anglers Council
PC	Parks Canada
PMA	Provincial Museum of Technology
RNEP	Randy Newman III Foundation
SPGA	Storwood Park Park and Game Association
SFU	Surrey Fraser University
SWCC	Saskatchewan Wildlife Conservation Club
TROLS	Terrestrial and Riparian Organisms Lakes and Streams

2. EXPLANATION OF CATEGORIES

No. - Study Number (48 studies included)

Species - Species or group of animals studied

Program - Year and duration of study

Agency - Primary agency conducting study

Title - Project title and a short description of the study

Pr. Rpt. - Whether or not progress reports are available. Progress reports can be obtained from

principal contact

Contact - The name with the phone number beside it is the principal contact. The person should

be contacted for more information about the project.

## 3. AGENCY ABBREVIATIONS

AAFRD	Alberta Agriculture Food and Rural Development
AEP	Alberta Environmental Protection
AEC	Alberta Environmental Centre
AFC	AgriFood Canada
AFGA	Alberta Fish and Game Association
AFWS	Alberta Fish and Wildlife Services
ALPAC	Alberta Pacific Forest Industries
ARCWS	ARC Wildlife Services
ARL	Accipter Resources LTD.
BBOS	Beaverhill Bird Observation Society
BCL	Bovar Concord Ltd.
BED	Bighorn Environmental Design Ltd.
CACB	Centre for Applied Conservation Biology
CANFOR	Canadian Forest Products Inc.
CCI	Canadian Circumpolar Institute
CCS	Cottonwood Consultants
CFS	Canadian Forest Service
CWRS	Calgary Wildlife Rehabilitation Society
CWWI	Craighead Wildlife-Wildlands Institute
DFO	Department of Fisheries and Oceans
DMI	Daishowa-Marubeni International Ltd.
DND	Department of National Defense
DU	Ducks Unlimited
EC	Environment Canada
ENRC	EnviResources
FMF	Foothills Model Forest
FMCA	Fedirchuk, McCullough and Associates
GAL	Golder Associates LTD
GCS	Gaia Consultants
HBT AGRA	AGRA Earth and Environmental
HO	Husky Oil
MELP	(British Columbia) Ministry of Environment, Lands and Parks
MHHC	Manitoba Habitat Heritage Corp
MRWRC	Medicine River Wildlife Rehabilitation Centre
NAIT	Northern Alberta Institute of Technology
NAWMP	North American Waterfowl Management Program
NSAC	Northern Sturgeon Anglers Council
PC	Parks Canada
PMA	Provincial Museum of Technology
RMEF	Rocky Mountain Elk Foundation
SFGA	Sherwood Park Fish and Game Association
SFU	Simon Fraser University
SWCC	Saskatchewan Wetland Conservation Corp
TROLS	Terrestrial and Riparian Organisms Lakes and Streams

U of A	University of Alberta
U of C	University of Calgary
U of G	University of Guelph
U of S	University of Saskatchewan
U of Sh.	University of Sherbrooke
UBC	University of British Columbia
WC	Weyerhaeuser Canada
WOC	Weldwood of Canada



4. PROJECTS ON FISH

No.	Species	Location	Progress	Agency	Title	Pr. Rpt	Contact	Phone #
1	Alberta Fishes	N/A	1 of 2 yrs	U of C	GUIDE TO ANIMAL PARASITES OF ALBERTIAN FISHES Parasite/host listing, host/parasite listings, distributional records, authorities.	No	Hisao P. Arai	220-6379
2	Arctic Grayling, Northern Pike	Beaverlodge/Red Willow Rivers	3 of ongoing	AFWS	FISHERIES MANAGEMENT - BEAVERLODGE/RED WILLOW RIVERS To monitor spawning movements of Arctic grayling, determine alternate spawning sites, locate concentrations of grayling fry to locate spawning and rearing areas, and assess deep pool habitat to evaluate overwintering potential. To establish rapport with landowners in regard to environmental problems (ie. streambank erosion, beaver management, cattle management on rivers).	No	Dave Walty Ed Kolodychuk	624-6405
3	Arctic grayling, Rainbow Trout	Weberville Pond-Peace River	2 of ongoing	AFWS	WEBERVILLE POND To construct a settling pond in the spring led creek which flows into Weberville Pond to catch and control sediments before they enter the pond. This will possibly provide suitable spawning area.	No	Ed Kolodychuk Dave Walty	624-6405
4	Brook Stickleback	Alberta (with emphasis to Elk Island National Park)	26 of 30 yrs	U of A	PELVIC SKELETON ABSENCE IN BROOK STICKLEBACKS Studies of genetics and temporal stabilities of various pelvic skeleton morphs of sticklebacks	Yes	Joseph Nelson	492-4741
5	Bull Trout	Oldman River headwaters	1 of ongoing	AFWS	BULL TROUT REDD INDEX Search for Bull trout spawning sites in Oldman River tributary streams. On confirmed spawning streams, establish index reaches and conduct annual redd counts.	No	Daryll Wig	562-3289
6	Bull trout, Arctic Grayling, Mountain Whitefish, Walleye	Grande Prairie Forest	1 of 3 yrs	AFWS	CANFOR FISHERIES INVENTORY Fish inventory in the Canlor timber harvest area (present and projected)	No	Dave Walty	624-6405
7	Eastern Brook Trout	Chrystina Lake-Swan Hills	1 of ongoing	AFWS	CHRYSSTINA LAKE Maintenance of water control structure including beaver control to keep the lake at a certain level and to prevent fish from escaping and undesirable species from entering the waterbody.	No	Dave Walty Ed Kolodychuk	624-6405
8	Eastern Brook Trout, Rainbow Trout, Brown Trout	East Dollar Lake Moonshine Lake Suiphur Lake Cummings Lake Zama Lake Pond Spring Lake Poiners' Lake Figure Eight Lake	10 of ongoing	AFWS	AERATION PROGRAM To aerate and maintain 8 lakes in the Peace River Region so as to overwinter rainbow trout, eastern brook trout and brown trout. By aerating these lakes several age classes and sizes of fish can be made available to sport fishermen.	No	Dave Walty Ed Kolodychuk	624-6405
9	Eastern Brook Trout, Rainbow Trout, Brown Trout	Swan Lake-Valleyview	1 of ongoing	AFWS	SWAN LAKE To assess and determine cost to install an aeration system so as to overwinter stocked trout.	No	Dave Walty Ed Kolodychuk	624-6405
10	Fish	Slave River	2 of 2 yrs	DFO <sup>1</sup> U of A <sup>2</sup> NRBS	FISH AND FISH HABITAT UTILIZATION IN THE SLAVE RIVER The purpose of this project is to collect species, life history, population and movement information of fish species inhabiting the Slave River. This project will provide the information necessary to interpret contaminant data from the Slave River Monitoring Program in an ecological context as well as to enable the development of improved monitoring programs and improved management of the local fishery.	No	Dr. R. Tallman <sup>1</sup> Dr. J. Reist <sup>1</sup> G. Low <sup>1</sup> B. Tonn <sup>2</sup>	427-1742 (NRBS)
11	Fish	Calgary	3 of 3 yrs	ENCR NRBS	COMPILE SYNTHESIZE AND UPDATE FISH POPULATION DATA To synthesize and interpret existing data and information into a format that can be geographically accessed. To provide a descriptive summary of the known information and identify gaps that hinder the capability to undertake a cumulative effects assessment.	No	EnvResources	427-1742 (NRBS)

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
12	Fish	Lab Studies	3 of 4 yrs	DFO, U of G <sup>2</sup> NRBS	<b>OXYGEN REQUIREMENTS OF NORTHERN RIVER BASIN STUDY FISH</b> To provide criteria for assessing the impact of reduced levels of dissolved oxygen upon the survival and biological state of selected fish species residing in the NRBS Study Area. In 1993/94 laboratory studies were conducted to determine the oxygen requirements of mountain whitefish and bull trout eggs and embryos. In 1994/95, the biological responses to be evaluated will be the processes of gonadal development and maturation of adult burbot and goldeye, measured at realistic water temperatures (2-3°C). The study will focus on those levels of dissolved oxygen (approximately 6.0 mg/L) present during the period of ice-cover when hypoxic conditions are most severe.	No	Michael Giles, Scott Brown, Glen Van der Kraak	427-1742 (NRBS)
13	Fish	Alberta	ongoing	U of A	<b>FISHES OF ALBERTA</b> Synthesis of data on biological, taxonomic and biogeographic studies of Alberta fishes.	Yes	Joseph Nelson Martin J. Paetz	492-4741 427-3574
14	Lake Sturgeon	North Saskatchewan River	2 of 4 yrs	AFWS	<b>MONITORING SEASONAL MOVEMENTS OF LAKE STURGEON (ACIPENSER FULVESCENS) IN THE NORTH SASKATCHEWAN RIVER USING RADIO TELEMETRY TECHNIQUES</b> Regular monitoring of sturgeon bearing low frequency external radio transmitters to locate critical overwintering habitat. Monitoring spring migration patterns of sturgeon to locate spawning areas.	Yes	Darryll Watters	427-3574
15	Lake Sturgeon	North Saskatchewan River	4 of 4 yrs	AFWS NSAC	<b>LAKE STURGEON (ACIPENSER FULVESCENS) IN THE NORTH SASKATCHEWAN RIVER, ALBERTA</b> Collection of basic life history data, i.e. fork and total length, round length, ageing structure. Calculate population estimates, monitor migration trends.	Yes	Darryll Watters Public Volunteers	427-3574
16	Lake Trout	Lake Minnewanka	1 of 2 yrs	GAL	<b>Lake Trout Habitat Modelling for Lake Minnewanka, Banff.</b> Using bathymetric modelling within PC ARCIINFO GIS to assess whether TransAlta's manipulation of the water regime of the lake is affecting the lake trout population.	No	Dave Farnet Paul Anderson Michael Reame	299-4642 624-6405
17	Northern Pike, Yellow Perch, Lake Whitefish	Lesser Slave lake	1 of ongoing	AFWS	<b>LESSER SLAVE LAKE HABITAT MAPPING</b> To identify and map critical spawning areas. This will help determine the potential for conflicts between shoreline development and habitat.	No	Dave Wally Ed Kolodychuk	624-6405
18	Rainbow Trout	South Two Lakes- Grande Prairie	1 of 3 yrs	AFWS	<b>SOUTH TWO LAKES</b> To enhance the spawning habitat in the northeast inlet of South Two Lakes.	No	Dave Wally Ed Kolodychuk	624-6405
19	Rainbow Trout, Brassy Minnow	Musreau Lake	1 of 5 yrs	AFWS	<b>MUSREAU LAKE ENHANCEMENT</b> To maximize production in the stocked rainbow trout fishery by reducing predator fish species populations by selective removal strategies; enhancing spawning habitat in the west inlet creek.	No	Dave Wally Ed Kolodychuk	624-6405
20	Rainbow Trout, Burbot, Brassy Minnow	Musreau Lake-Grande Prairie	2 of ongoing	AFWS	<b>MUSREAU LAKE FISHERY</b> Test netting to gather population data. Longlining to control populations of burbot. Inspected habitat spawning potential of inlet.	No	Dave Wally Ed Kolodychuk	624-6405
21	Salmonid gamefish	Peace River Region Vegreville	1 of 2-3 yrs	AEC U of A	<b>IMPROVED LAKE AERATION STRATEGIES FOR ALBERTA</b> The objective of the field component is to compare the biological effectiveness and cost-efficiency of three alternative lake aeration methods used to mitigate fish winterkill. Those methods are compressed air injection, mechanical surface aeration, and pump and cascade aeration. The laboratory work seeks to determine whether rainbow trout, brown trout, brook trout, and Arctic grayling differ in their ability to withstand environmental hypoxia at low temperatures. This work will help indicate the relative suitability of the various salmonid gamefish species for stocking in lakes susceptible to oxygen depletion during winter.	Yes	Karl Schwalme Theron Miller W.C. Mackay	632-8321
22	Trout	Lakes in the Peace River Region	1 of ongoing	AFWS	<b>PUBLIC INVOLVEMENT-STOCKED LAKE MANAGEMENT</b> To encourage and coordinate the use of non-government agencies (ie. Fish and Game Clubs and local interest groups) and to assist in the management of local waterbodies in which they may have special interest (particularly stocked lakes).	No	Dave Wally Ed Kolodychuk	624-6405



No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
23	Walleye	Snipe Lake - Valleyview	1 of ongoing	AFWS	SNIPE LAKE: Walleye spawning substrate evaluation and enhancement. Suitable areas were enhanced with spawning materials to encourage stocked walleye to produce.	No	Dave Walby Ed Kolodychuk	624-6405
24	Walleye	Sandy Lake	1 of ongoing	AFWS	SANDY LAKE: To maximize walleye production by evaluating spawning habitat quality and assessing potential for enhancement. Assessing blockage of walleye spawning migrations by beaverdams.	No	Dave Walby Ed Kolodychuk	624-6405
25	Walleye	Hilliard's Bay and Shaw's Point (West Basin of Lesser Slave Lake)	Compl. Feb. 1994	AFWS	LESSER SLAVE LAKE WINTER CREEL Creel study to determine ice angling pressure and harvest of walleye during pre-spawning. Deep water study was also done to determine the effects of deep water fishing and fizzing.	No	Dave Walby	624-6405
26	Walleye	Buffalo Bay Study area-South Heart River, Buffalo Bay, Grouard Channel	1 of 3 yrs	AFWS	BUFFALO BAY STUDY To monitor walleye spawning movements and spawning site selectivity.	No	Dave Walby Ed Kolodychuk	624-6405
27	Walleye	Winagami Lake	5 of ongoing	AFWS	WINAGAMI LAKE ENHANCEMENT To place rip-rap on the ice of Winagami Lake along the shoreline so as to create spawning areas for walleye.	No	Dave Walby Ed Kolodychuk	624-6405
28	Walleye	Vanderstein Lake	1 of 6 yrs	AFWS	VANDERSTEIN LAKE To determine the potential of enhancing the walleye population by improving the quality and expanding the size of available spawning habitat.	No	Dave Walby Ed Kolodychuk	624-6405
29	Walleye	Graham Lake	2 of 2 mo.	AFWS	GRAHAM LAKE CREEL Examine the spring walleye sport fishery harvest in relationship to timing and location of walleye spawning activity.	No	Dave Walby Ed Kolodychuk	624-6405
30	Walleye	Graham Lake	1 of 1 yrs	AFWS	GRAHAM LAKE To determine the vulnerability of existing spawning gravel beds and evaluate the potential for enhancement.	No	Dave Walby Ed Kolodychuk	624-6405
31	Walleye and Yellow Perch	NE Alberta	1 of ongoing	AFWS	VOLUNTEER COLLECTION OF BIOLOGICAL INFORMATION ON SELECTED FISH SPECIES This project allows volunteers to collect vital biological information on the fish species they target when angling without detracting from their angling time or experience. Collected information will assist fisheries staff with the management of fish populations in the provinces northeast region.	No	J. Blake Mills	645-6313
32	Walleye, Northern Pike, Burbot, Yellow Perch, Lake Whitefish, White Sucker, Long-nosed Sucker	South Heart River	3 of ongoing	AFWS	SOUTH HEART RIVER FENCING The construction of a fence and dugout which will be used as a tool to remove livestock from the river bed and slopes	No	Ed Kolodychuk Dave Walby	624-6405
33	Walleye, Pike, Yellow Perch	Lesser Slave Lake	5 of 5 mo.	AFWS	LESSER SLAVE LAKE SPORT FISHERY Creel survey; quantify the change in sport fishing on Lesser Slave Lake by determining sport fishing harvest levels	No	Dave Walby	624-6405
34	Walleye (primary), Pike, Perch, Minnows (secondary)	NE Alberta (Lakeland Area)	11 of ongoing	AFWS	EFFECTS OF FISHING EXPLOITATION ON WALLEYE POPULATIONS Walleye populations receive heavy fishing pressure. Our studies are documenting how this mortality affects the fishery population dynamics, and aquatic community status. Our goal is to learn effective ways to recover the populations to healthy levels.	Yes	Michael Sullivan	427-3574



No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
35	Walleye, Yellow Perch, Lake Whitefish, Goldeye, Arctic Grayling, Northern Pike, five species of trout	Peace River Region	2 of ongoing	AFWS	STREAM AND SHORELINE CONSERVATION To secure critical fishery waterways along creeks, rivers and lakes which may be impacted by livestock.	No	Ed Kolodychuk Dave Walby	624-6405
36	Westslope Cutthroat Trout	Marvel Lake, Bryant Creek District, Banff National Park	2 of 2 yrs	U of C PC	POPULATION STUDY OF WEST SLOPE CUTTHROAT TROUT ( <i>ONCORHYNCHUS CLARKI</i> LEWIS) IN MARVEL LAKE, BANFF NATIONAL PARK, WITH IMPLICATIONS FOR MANAGEMENT Population ecology of trout including population estimate, spawning survey, measurements of chemical, physical and biological parameters of lake. Information will be used to recommend appropriate management strategies for this valuable trout.	Yes	Jenny Earle	220-6601



5. PROJECTS ON AMPHIBIANS AND REPTILES

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
37	Amphibians	ALPAC FMA (Calling Lake)	2 of 3 yrs	CACB	HABITAT USE OF AMPHIBIANS IN BOREAL FORESTS	No	Elke Wind	822-5724
38	Long-toed Salamander	Cannone, Exshaw, Bow Corridor region.	3 of ongoing	AFWS U of C	DEMOGRAPHY OF THE LONG-TOED SALAMANDER ( <i>AMBYSSTOMA MACRODACTYLUM</i> KRAUSE)  Over the last three field seasons we have located a number of populations of this species, carried out various observations on growth in the field and the laboratory, studied larval development and recruitment, and investigated the basic demographics at several population sites with different physical attributes. This is designed as a long term study and is part of a local nationwide effort to investigate the phenomenon of declining amphibian populations.	Yes	Anthony Russell Lawrence Powell Sheri Watson	220-5198 220-7528
39	Long-toed Salamander	Hinton	1 of 2 yrs	U of G	ALLOZYME VARIATION IN TWO SUBSPECIES OF THE LONG-TOED SALAMANDER  The purpose of this project is to use allozyme variation to either support or provide evidence against separating the north-eastern part of its range into 3 different subspecies.	No	Karen Graham J. Bogart Rick Bonar	(519)824-4120 *8523
40	Long-toed Salamander	Hinton	1 of 2 yrs	U of G	HABITAT USE OF THE LONG-TOED SALAMANDER WITHIN THE FOOTHILLS FOREST  The purpose of this request is to determine the critical habitat parameters required by the Long-toed Salamander for all phases of its life history.	No	Karen Graham J. Bogart Rick Bonar	(519)824-4120 *8523
41	Long-toed Salamander	Waterton Lakes National Park	2 of 2 yrs	U of C PC	LONG-TOED SALAMANDER ( <i>AMBYSSTOMA MACRODACTYLUM</i> ) ECOLOGY AND MANAGEMENT IN WATERTON LAKES NATIONAL PARK	No	Julie Fukumoto	249-8688
42	Long-toed Salamander	Bow Corridor region	4 of 6 yrs	U of C	POPULATION BIOLOGY OF THE LONG-TOED SALAMANDER ( <i>AMBYSSTOMA MACRODACTYLUM</i> ) IN THE BOW CORRIDOR  A long term study of population size and trends, reproduction, habitat use and basic ecology of two range-marginal populations of the long-toed salamander in the Bow Corridor, a heavily-used montane area.	Yes	Anthony Russell	220-5260
43	Eastern Short-horned Lizard	The vicinity of Bow Island and Manyberries	3 of ongoing	AFWS	POPULATION DEMOGRAPHICS AND THERMOREGULATION OF THE EASTERN SHORT-HORNED LIZARD ( <i>PHRYNOSOMA DOUGLASSII BREVIROSTRE</i> )  For over a decade now we have been documenting various aspects of the basic field biology of this species. Current field-based research focuses on (i) movement patterns of individuals on a daily basis and identification of hibernacula (using radiotelemetry) and (ii) thermoregulatory strategies in the context of changing climatic conditions throughout the year (again using radiotelemetry).	Yes	Anthony Russell Lawrence Powell Janice James	220-5198 220-7258
44	Eastern Short-horned Lizards	Manyberries	3 of N/A	AFWS U of C	A RADIO TELEMETRIC STUDY OF MOVEMENT AND THERMAL ECOLOGY IN AN ALBERTA POPULATION OF THE EASTERN SHORT-HORNED LIZARD ( <i>PHRYNOSOMA DOUGLASSII BREVIROSTRE</i> )  To determine the location and nature of the hibernation site or sites (hibernaculum or hibernacula) used by eastern short-horned lizards in southeastern Alberta. To be accomplished by tracking lizards equipped with radio transmitters and to monitor the immediate thermal environment to examine possible thermal cues which may trigger hibernation.	Yes	Randy Lee Larry Powell Anthony Russell	381-5281
45	Reptiles	Suffield National Wildlife Area	1 of 3 yrs	CWS	SUFFIELD NWA ECOLOGICAL LAND SURVEY  Reptile and Amphibian Studies	Yes	Andrew Didiuk	(306)975-4087



6. PROJECTS ON BIRDS

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
46	American Redstart	Calling Lake area	2 of 4 yrs	U of A	IMPACTS OF FOREST FRAGMENTATION ON REPRODUCTIVE SUCCESS AND DISPERSAL IN THE AMERICAN REDSTART We are examining these aspects in an area that has been experimentally fragmented into reserves of different sizes and in a large unfragmented control.	Yes	Marc-Andrie Villard Susan Hannon	492-7544
47	Corvids, Red Squirrels	Townships 72-23 and 72-24, West of Calling Lake	2 of 2 yrs	U of A	EFFECTS OF FOREST FRAGMENTATION ON EGG PREDATION The focus of this research is to determine if forest fragmentation affects the rate of egg predation and densities of egg predators. Experiments using artificial nests were conducted in ALPAC's FMA before and after forest harvest.	Yes	Susan Coltenill Susan Hannon	492-1178
48	Ducks	Camrose and Sletifer Areas	2 of 2 yrs	DU NAWMF	EFFECTS OF TRACTOR FLUSHING DEVICES ON ACCIDENTAL MORTALITY OF UPLAND NESTING DUCKS This study evaluates the reduction in the number of female ducks killed when farmers cut hay.	No	Brett Calverley Tomasz Sankowski	489-2002
49	Ducks and associated wetland species	80 km north of Grande Prairie	1 of 2 yrs	DU	WATERFOWL RESPONSES TO RESTORED/CREATED WETLANDS IN THE PEACE PARKLAND BIOME OF ALBERTA This study is examining pair and brood populations on restored/created wetland projects to determine waterfowl responses and ultimately cost benefits of those projects.	No	Mike Williams Ken Lumbis Reg Arbuckle Dave Matheson	532-7960
50	Ducks- Harlequin Duck	Maligne Valley- Jasper National Park	3 of 4 yrs	PC SFU CWS	THE EFFECTS OF HUMAN DISTURBANCE (WHITEWATER RAFTING) ON THE BREEDING ECOLOGY OF HARLEQUIN DUCKS IN JASPER NATIONAL PARK We are investigating various aspects of harlequin duck breeding ecology. We are doing intensive behavioural observation on pre-nesting birds to determine normal feeding regimes and have banded over 50 ducks with colored leg bands within the Maligne Valley.	Yes	Bill Hunt	852-6155
51	Ducks- Mallard	Buffalo Lake	2 of 2 yrs	AFWS NAWMF	BAIT STATION FIDELITY OF RADIO COLLARED MALLARDS Mallards have been radio tagged at a crop depredation control bait station and are monitored daily for time spent at the feeding station.	Yes	James Allen Dave Prescott	823-1681
52	Ducks-Northern Pintail primarily, but also other upland nesting waterfowl and shorebirds (ie. Willet, Godwit, and avocet)	Brooks	1 of 3 yrs	DU CWS U of S	FACTORS AFFECTING THE REPRODUCTIVE SUCCESS OF NORTHERN PINTAILS This is a radiotelemetry study investigating nest site selection, re-nesting potential, nest success, habitat use, duckling survival and philopatry of female pintails in short grass prairie.	Yes	Karla Guyn Todd Arnold Bob Clark	(306) 975-4791
53	Forest Bird Communities	Sundre		BED	SKELETON CREEK BREEDING BIRD SURVEY To determine impact of prescribed fire in a subalpine coniferous forest on the bird community.	Yes	Beth MacCallum	865-3390
54	Loggerhead Shrike	South-eastern Alberta	3 of 3 yrs	AFWS	EVALUATION OF POPULATION SIZE, HABITAT UTILIZATION, AND POPULATION TREND OF LOGGERHEAD SHRIKE POPULATIONS IN ALBERTA This work involves several components including a 1993 field inventory and ongoing evaluation of long term trend information.	Yes	Ron Borge Doug Colliester	340-7699
55	Migratory non-game songbirds	Hinton	5 of ongoing	CWS	INTEGRATION OF MIGRATORY BIRD MANAGEMENT WITH TIMBER MANAGEMENT The long term goal of this project is to evaluate impacts of timber management on non-game migratory birds and to find and promote the adoption of measures to integrate bird habitat requirements with those of timber production.	Yes	E. S. Teller Keith Hobson Dan Farr Marie Nietfield	951-8671
56	Neotropical migrant birds (songbirds) Invertebrates	Calling Lake	1 of 4 yrs	U of A	HABITAT QUALITY OF FOREST EDGES FOR BREEDING SONGBIRDS IN A FRAGMENTED LANDSCAPE Assessment of effect of timber harvesting on songbirds breeding at edges of old poplar stands. Productivity, abundance of arthropod forage and nest predation (using artificial nests) monitored at clearcut edges and compared to edges naturally occurring in the boreal forest (e.g. poplar/consifer, poplar/riparian edges) and forest interior.	Yes	Samantha Song Susan Hannon	492-2539

No.	Species	Location	Progress	Agency	Title	Pr. Rpt	Contact	Phone #
57	Neotropical Migrant Landbirds	Inglewood Bird Sanctuary in Calgary	3 of ongoing	ARL	MONITORING OF FALL MIGRATION OF NEOTROPICAL MIGRANT PASSERINES Constant effort mist-netting study of fall and passage of neotropical migrants. All birds are banded. Objective is to collaborate with other similar initiatives on the prairies to achieve early detection of population changes.	Yes	Doug Collister Ross Dickson	240-1635
58	Neotropical Migrant Passerines	FMA of Wetwood of Canada, Ltd, Hinton	0 of 2 yrs	CWS <sup>1</sup> FMF <sup>2</sup> WC <sup>3</sup>	NEOTROPICAL MIGRANT PASSERINE ABUNDANCE AND DISTRIBUTION IN BOREAL FOREST In response to recent declines in population of neotropical migrant passerines, this study will investigate forest habitat use by these birds in west-central Alberta to facilitate the integration of wildlife and resource management planning.	No	Sheila Rangen R.G. Clark <sup>1</sup> K.A. Hobson <sup>1</sup> Dan Fair <sup>2</sup> Rick Bonar <sup>3</sup>	(306) 975-6034
59	Neotropical migrants	West of Bragg Creek	1 of 1 yrs	GAL HO	BREEDING BIRD INVESTIGATIONS IN THE MOOR MOUNTAIN AREA OF KANINASKIS COUNTRY Habitat use by breeding birds in the study area.	No	Brian Gray	299-5640
60	Non game birds	All three prairie provinces	of ongoing	CWS	INTEGRATED SONGBIRD MONITORING The project involves the promotion of volunteer bird monitoring activities included in the CWS national monitoring included in the CWS National Monitoring Strategy and the provision of support and training for volunteers where required and development of additional surveys to fill information gaps. Surveys promoted include Breeding Bird survey, Prairie Nest Record Scheme, Migration Monitoring, Alberta Checklist Program (FAN) and Monitoring Avian Productivity and Survival.	Yes	Brenda Dale	951-8686
61	Non-game bird species (mainly grassland species)	Lethbridge, Wataskawin, Durrvegan	2 of 3 yrs	CWS NAWMF SWCC MHHC	NONGAME EVALUATION OF THE NORTH AMERICAN WATERFOWL MANAGEMENT PLAN The project entails providing support to the 3 provincial organizations conducting studies on possible benefits for nongame birds resulting from NAWMP. All four agencies cooperate to conduct studies in a coordinated manner using standard methods.	Yes	Brenda Dale	951-8686
62	Owl-Barred Owl	Foothills Forest, Hinton	1 of 2 yrs	FMF U of A CWS	BARRED OWL HABITAT USE AND DISTRIBUTION IN THE FOOTHILLS FOREST The objectives of this study are to determine the abundance and distribution of the barred owl in the Foothills Forest and to determine the habitat associated with their presence. The prey upon which the barred owl is dependent will also be studied. The goal is to modify the U.S. Fish and Wildlife Habitat Suitability Index Model to be used in the Foothills Forest.	No	Lisa Takals James Beck Geoff Holroyd Warren Schaffler	492-4413
63	Owl-Burrowing Owl, Loggerhead Shrike	Brooks-Project covers the Dry mixed, mixed, fescue and aspen parkland transition zone ecoregions of Alberta	5 of ongoing	AFGA	Operation grassland community (includes operation burrowing owl) Multi-species, public awareness, education, habitat retention program. The program utilizes profile species at risk to encourage the reporting of sightings and the involvement of landowners in voluntary habitat protection for the profile species.	Yes	Dave Scobie Brad Fenson	362-4122 2437-2342
64	Owl-Great Grey Owl, Long Eared Owl, Northern Hawk Owl, Northern Pygmy Owl	Water Valley	9 of ongoing	ARL	FOREST OWL ECOLOGY Banding study to investigate distribution, longevity, mortality, site fidelity, dispersion and population dynamics.	No	Doug Collister	240-1653
65	Peregrine Falcon	Edmonton	14 of ongoing	AFWS	EDMONTON PEREGRINE RESTORATION Monitoring of peregrine sites in Edmonton, collection of prey remains, supplementing production with captive-bred chicks, banding of chicks, public relations.	Yes	John Folinsbee Dave Moore	427-3574
66	Piping Plover, Shorebirds, Colonial Waterbirds	Aspen Parkland Blome	6 of 15 yrs	NAWMF	HABITAT RESTORATION/ENHANCEMENT FOR WATERBIRDS AND SONGBIRDS The project employs numerous techniques to benefit a wide variety of birds. Shorebirds (especially the piping plover) and colonial waterbirds are the primary focus.	No	Andrew Murphy	342-1314



No.	Species	Location	Progress	Agency	Title	Pr. Rpt	Contact	Phone #
67	Raptors	North-central Alberta		U of A	Survey of forest-dwelling raptors in the ALPAC FMA With this project we are attempting to determine the species composition and abundance of raptorial birds in mixed-wood boreal forests for north-central Alberta. We are attempting to determine habitat requirements of forest dwelling species "before-cut" and "after-cut" surveys should allow us to determine effects of current forestry practices on these birds.		Gordon Court Susan Hannon	492-1282
68	Rock Dove	Edmonton	2 of ongoing	NAIT	PIGEON CONTROL IN AN URBAN ENVIRONMENT	Yes	Don Patte	471-7659
69	Sharp-tailed Grouse	Provincial Pilot Project proposed for Milk River Ridge and Special Areas #4	0 of 5 yrs	AFWS	SHARP-TAILED GROUSE HABITAT PROGRAM Development and implementation of a program directed at habitat losses and degradation that has impacted sharp-tailed grouse populations.	No	Bob Goddard	381-5281
70	Songbirds	Lac La Biche	4 of 4 yrs	AEC	CHANGES IN BIRD ABUNDANCE THROUGHOUT FOREST SUCCESSION Measured bird abundance and vegetation characteristics in 3 forest ages (young, mature, and old).	Yes	Jim Schieck	632-8308
71	Songbirds	West of Calling Lake	2 of 3 yrs	U of A	CONNECTED RESERVE SYSTEMS FOR THE CONSERVATION OF SONGBIRDS IN THE BOREAL MIXEDWOOD FOREST Investigates comparative value of forest remnants connected by riparian buffers vs remnants completely isolated (both by clearcut). Study in community level. Also investigates possibility that buffers are movement corridors.	Yes	Craig Machlans Susan Hannon	492-1298
72	Songbirds	Calling Lake	2 of 3 yrs	UBC	THE EFFECT OF FOREST FRAGMENTATION ON BOREAL BIRDS An experimental fragmentation study where the bird communities of 1, 10, 40, and 100 ha forest fragments, each replicated 3 times, are compared to similar sized controls within continuous forest. Presence/absence, relative abundance, territory size and configuration and reproductive productivity are all being examined.	Yes	Fiona Schmeigelow	(604) 822-6013
73	Songbirds	Calling Lake	2 of 3 yrs	UBC	THE EFFECT OF LANDSCAPE MATRIX ON BREEDING BIRD COMMUNITIES Bird communities in old aspen-dominated forest are compared with those in recent, adjacent clear-cut and 10-year old second-growth aspen to assess the role of harvesting-induced changes in habitat juxtaposition on bird community dynamics.	Yes	Fiona Schmeigelow	(604) 822-6013
74	Songbirds	ALPAC's FMA	of 1 yr	UBC	BROAD-SCALE PATTERN IN BIRD DIVERSITY IN NORTHERN ALBERTA Assessment of the predictive capability of forest inventory data for explaining patterns in the Alberta breeding bird data. Spatial comparison of data with finer-scale information from studies in the Calling Lake area.	No	Fiona Schmeigelow	(604) 822-6013
75	Songbirds	Calling Lake	2 of 3 yrs	UBC	NATURALLY-ISOLATED ASPEN STANDS AND HABITAT CONSERVATION A study of stands of older, aspen-dominated forest surrounded on all sides by black spruce. Not only are these areas interesting ecologically, but because they are operationally undesirable, they are candidate habitat reserves, and thus it is important to assess their conservation potential.	Yes	Fiona Schmeigelow Susan Hannon	(604) 822-6013
76	Songbirds	Calling Lake	2 of 2 yrs	UBC	UNMIXING THE MIXEDWOOD: PROBLEMS WITH MANAGING ALBERTA'S BOREAL FOREST Exploration of the implications of division of the mixedwood landscape, for coniferous sawlog production and deciduous pulpwood production, from a wildlife perspective. Stands containing from 0-100% white spruce sampled and AVI classification compared to data from vegetation plots. The research is aimed at documenting patterns in avian communities across this compositional gradient.	Yes	Fiona Schmeigelow Kimberly Lisgo	(604) 822-6013
77	Songbirds, raptors, shorebirds, etc.	Beaverhill Lake, Trofield Lesser Slave Lake Prov. Park	10 ongoing	BBOS	LAND BIRD MIGRATION MONITORING Bird banding and census taking to estimate spring and fall migration numbers of landbirds.	Yes	Geoff Holroyd	438-1462



No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
78	Tree Swallow, Bank Swallow, Aquatic Aerial Insects	Prince Albert, SK Grande Prairie, AB	2 of 4 yrs	CWI WC	THE TREE SWALLOW AS A BIOINDICATOR OF RIPARIAN WILDLIFE EXPOSURE TO PULP AND PAPER MILL EFFLUENTS Work is being done on the North Saskatchewan river near Prince Albert, SK and on the Wapiti River near Grande Prairie.	Yes	Mark Wayland Keith Hobson	(306) 975-6340
79	Woodpeckers- Pileated	Telemetry-Hinton Area Nest Trees- Northern Alberta	2 of 3 yrs	WOC	PILEATED WOODPECKER HABITAT ECOLOGY IN BOREAL FORESTS Characterize year-around pileated woodpecker habitat ecology, describing nest and roost trees, foraging substrates, stand-level habitat use, home range size, survival, and reproductive success. Test a habitat model to be used to predict habitat suitability for pileated woodpeckers.	No	Hick Bonar J. Beck, S. Hanrion, E. Teller W. Bradford N. Manners	865-8193
80	Woodpeckers- Three-toed, Black-backed, Hairy	Hinton-Foothill Forest	1 of 2 yrs	FMF WOC AFWS	WINTER HABITAT ECOLOGY OF BOREAL FOREST WOODPECKERS Habitat use (stands and trees) of foraging woodpeckers in winter. Direct observation of birds to start, may be followed with a telemetry program.	No	Rick Bonar Dan Farr Kirby Smith Marg Lomow	865-8193
81	Woodpeckers- Three-toed, Hairy, Downy Black-backed, Common Flicker Yellow-bellied Sapsucker	Hinton	1 of 2 yrs	FMF U of A	SUMMER HABITAT USE OF SIX WOODPECKER SPECIES IN BOREAL FORESTS Active nests will be located and habitat characteristics of nest tree and area surrounding the nest measured. The same information will be obtained for foraging sites. The degree to which resource partitioning among the six woodpecker species in nesting and foraging habitat requirements will be evaluated. A habitat suitability index model for three-toed and hairy woodpeckers will be developed and validated.	No	Jody Watson J.A. Beck Ed Teller	433-7424



## 7. PROJECTS ON MAMMALS

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
82	Big game and furbearers	Green Zone	8 of ongoing	AFWS	Trapper Questionnaire: Annual Survey of Registered trappers about present status and trend of 15 big game and furbearer species on their RFMA	Yes	Robert McFendly	422-9536
83	Bighorn Sheep	Ram Mountain near Nudberg in west-central Alberta	23 of ongoing	AFWS U of Sh	RAM MOUNTAIN BIGHORN SHEEP PROJECT  Long term investigation of bighorn sheep population dynamics. Looks at the effects of density, weather and age structure upon individual reproductive success, population dynamics, horn and body size, trophy production. Multiple faceted study also looking at other aspects of BHS biology.	Yes	Jon T. Jorgensen Marco Festa Bianchet	297-6423
84	Bighorn Sheep	Cadomin	2 of 2.5 yrs		NIKANASSIN RANGE BIGHORN SHEEP STUDY  A radio telemetry study to understand how bighorn sheep from reclaimed landscapes on coal mines interact with the surrounding populations and habitats. The coal mines are: Cardinal River Resources Ltd. and Gregg River Resources Ltd. This is a co-operative study also involving Jasper National Park, Alberta Fish and Wildlife Services with additional funding from the Recreation, Parks and Wildlife Foundation and the Wildlife Enhancement Fund.	No	Beth MacCallum	865-3390
85	Bighorn Sheep	Sheep River Drainage	1 ongoing	U of Sh	Individual Reproductive Success of Bighorn Sheep: Effects of population density, disease, parasites, predation, foraging behaviour and reproductive strategy	Yes	Marco Festa-Bianchet Jon Jorgensen	(819) 821-7061
86	Bighorn sheep	Sheep River Sanctuary	8 of ongoing	CWWI	POPULATION AND GENETIC VIABILITY IN BIGHORN SHEEP To determine the demographic conditions and habitat areas required for the long-term persistence of populations of bighorn and related species of large mammals.	Yes	John T. Hogg Marco Festa-Bianchet	(406)251-3867
87	Bison, Wolves	Wood Buffalo National Park, Slave River Lowlands, MacKenzie Bison Sanctuary	0 of 2 yrs	U of A	BISON-WOLF-DISEASE DYNAMICS IN NORTHERN CANADA  Computer simulation modelling of bison-wolf dynamics, with emphasis on the effort of habitat configuration (using GIS vegetation data) and disease on long-term dynamics.	No	Richard Schneider Cormack Gates George Mercer	492-1293
88	Black Bear Grizzly Bear	Jasper National Park	1 of 1 yrs	PC	BEAR/HUMAN CONFLICT MANAGEMENT PLAN 1994  The plan provides direction and guidelines for bear/human conflict management in Jasper National Park. Management actions are detailed for human activity management, problem bear management, management of facilities in backcountry and frontcountry areas, procedures in case of bear related emergencies, public information programs, monitoring of bears and potential problem situations, training requirements, interagency cooperation and national and regional bear management initiatives.	No	Wes Bradford Rick Ralf	852-6204
89	Bobcat	Cranbrook, B.C.	3 of 3 yrs	U of C AFWS MELP	Bobcat habitat use and suitability assessment in southeast BC  Home range, habitat use and prey selection by bobcats at a limit of natural distribution. Development of an empirical GIS based habitat suitability model.	Yes	Clayton Apps	220-6601
90	Cougar	Sheep River	13 of ongoing	ARCWS	COUGAR ECOLOGY IN SOUTHWESTERN ALBERTA  General ecological study including population characteristics, morphology and growth, and winter food habits.	Yes	Ian Ross Martin Jalkotzy	240-3361
91	Deer Mouse Red-backed Vole	Lac La Biche	2 of 3-5 yrs	U of A	THE EFFECTS OF COVER ENHANCEMENT OF CUT AREAS ON THE POPULATION DYNAMICS AND REPRODUCTIVE SUCCESS OF BOREAL FOREST SMALL MAMMALS Experimental logging that varied the amount of leave (3 levels: 0%, 1-2%, 10-15% on cut blocks on ALPAC FMA, occurred in the winter 93-94, intensive live-trapping on 6 blocks (2 of each leave level, plus two uncult blocks) began May 93 to monitor responses to cutting.	No	Richard Moses Stan Boutin Robbin Weaver	492-5548
92	Elk	Little Cadotte River Peace River Valley	2 of 3 yrs	AFWS	Monitoring of movements of transplanted elk in the Sunny Valley Ferry area of Peace River region. Determine home range, movement patterns and habitat use by elk transplanted from Elk Island National Park into the Little Cadotte River area.	Yes	Dave Moyles Bill Johnson	624-6405



No.	Species	Location	Progress	Agency	Title	Pr Rpt	Contact	Phone #
93	Elk	Weldwood FMA, Hinton	1 of 2 yrs	U of A FMF	WINTER HABITAT SELECTION BY ELK IN A BOREAL MIXEDWOOD ECOSYSTEM, WEST-CENTRAL ALBERTA Part 1: Determining habitat selection by elk at a landscape, stand, and site scale. Part 2: Elk ecology, including home range size, distribution, population estimation and pellet analysis. Part 3: Testing and, if necessary, modification of an HSI model for elk winter range.	No	Paul Jones R. Hudson M. Todd	865-6631
94	Elk	West of Sundre on east side of Banff Park	2 of ongoing	AFWS	YA HA TINDA ELK RELOCATION Live capture and relocation of elk to other winter ranges	No	Eldon Bruns Bitan Burrington	845-8230
95	Elk	Jasper National Park	1 of 3 yrs	PC	ELK/HUMAN CONFLICTS Radio collaring aggressive elk (chasing, knocking down, and injuring people) to identify repeat offenders, document distribution and movement of elk in heavily developed areas of Jasper National Park.	No	Was Bradford	852-6204
96	Elk Bighorn Sheep	East Slopes Foothills	ongoing	AFWS RMEF BED	To evaluate the effects of prescribed burns in various ecoregions throughout the East Slopes area of Alberta.	Yes	Kim Livingstone	845-8230
97	Elk, Mule Deer	The Porcupine Hills and the sandhills near Empress	3 of ongoing	AAFRD	UNGULATE PROOF FENCING To determine adequate fencing materials to keep elk or deer from haystacks. Electronic fencing vs. mesh enclosure	Yes	Eric Hutchings	381-5574
98	Furbearer	Green Zone	comp. 1983	AFWS	REGISTERED FUR MANAGEMENT AREA DIGITIZING FOR GEOGRAPHIC DISPLAY AND ANALYSIS OF FUR HARVEST AND TRAPPER QUESTIONNAIRE.	No	Della Clrsh Robert McFetridge	427-6729
99	Furbearers	Green Zone	24 of ongoing	AFWS	FUR AFFIDAVIT DATABASE: HARVEST STATEMENT FROM REGISTERED TRAPPERS COMPLETED ANNUALLY ABOUT THE PREVIOUS TRAPPING SEASON SINCE 1971	Yes	Robert McFetridge	422-9536
100	Furbearers- Lynx, Fisher, Wolverine	Green Zone	7 of ongoing	AFWS	COMPULSORY FUR REGISTRATION FOR LYNX, FISHER AND WOLVERINE	Yes	Robert McFetridge	422-9536
101	Furbearers- Otter, Fisher, Short-tailed Weasel, Coyote	Vegreville	1 2 yrs	AEC FIC	TRAP EFFECTIVENESS PROJECT This project tests the effectiveness of kill trapping systems to render target species irreversibly unconscious within 3 minutes and of restraining device systems to hold target species for 12 and 24 hours without sustaining greater than a threshold injury score. Animals are tested in test pens designed to simulate natural trapline conditions. Leg snares are being tested for coyotes, modified 330 rotating jaw trap for otter, 1.5 steel trap for weasel and the 220 rotating jaw trap (double strike) for fisher.	No	Laurence Roy	632-8250
102	Furbearers Small mammals	Boreal Foothills around Hinton	1 of 3 yrs	FMF	MAMMAL INVENTORIES IN THE FOOTHILLS FOREST Determine the distribution and abundances of furbearers and the small mammal species across forest types, generate a database for the development and testing of HSI models, winter snow track surveys, small mammal trapping, wildlife observation cards.	Yes	Melissa A. Todd Marianne Gibbard Jody Watson Arlen Todd	865-8180 865-6633
103	Grizzly Bear	Banff and entire Bow River drainage.	0 of 5 yrs	U of C PC AFWS	CUMULATIVE EFFECTS OF DEVELOPMENT ON GRIZZLY BEAR	Yes	Mike Gibeau John Kansas Steve Herrero	220-7436
104	Grizzly Bear	Banff and entire Bow River drainage.	0 of 5 yrs	U of C PC AFWS	GRIZZLY BEAR HABITAT DEFINITION AND MAPPING AT SMALL AND LARGE SCALES	Yes	Mike Gibeau John Kansas Steve Herrero	220-7436

No.	Species	Location	Progress	Agency	Title	Pr Hpt	Contact	Phone #
105	Moose	Northern Alberta, with emphasis in WMU 358 near Grande Prairie, WMU 350 south of Slave Lake and WMU 346 north of Edson	2 of 5 yrs	AFWS	NORTHERN MOOSE PROGRAM This is a project to determine moose population parameters in northern Alberta in order to better understand apparent declines and to recommend management strategies to ensure sustained annual populations of moose for recreational and subsistence purposes	Yes	Garry Lynch	422-9534
106	Mountain Goat	Hinton Area	3 of 3 mo.	WOC	PINTO CREEK MOUNTAIN GOATS Purpose of the project was to update population information on this herd and to assess habitat use within their range.	No	Fleck Bonar Christy Butt Kirby Smith Joe Niederhaller	865-8193
107	Mountain Goat	Livingstone Range	9 of 11 yrs.	AFWS BCFW	LIVINGSTONE RANGE MOUNTAIN GOAT TRANSPLANT A total of 24 goats have been moved onto the South Livingstone Range (North of Crownstet Pass) since 1987 (13 from Grande Cache area, 10 from north of Cranbrook, B.C., and one from west of Lilloet, B.C.). Several of the goats were radio-collared and are being tracked by Alberta Fish and Wildlife.	No	Richard Quinlan	625-1450
108	Mountain Goat	Grande Cache area	7 ongoing	U of S	REPRODUCTIVE SUCCESS AND POPULATION DYNAMICS OF MOUNTAIN GOATS Looks at effects of age, size, social behaviour, foraging behaviour, population density, predation and reproductive strategy upon individual reproductive success and population dynamics.	Yes	Marco Festa Blanchet Kirby Smith	(819) 821-7061
109	Richardson's Ground Squirrel	Throughout agricultural areas in Alberta, mainly or presently south of Drumheller	3 of N/A	AAFRD	RICHARDSON'S GROUND SQUIRREL-DAMAGE CONTROL Testing efficacy of agricultural compounds and baits to reduce ground squirrel damage. Presently working with chlorophacinome.	No	Eric Hutchings	381-5574
110	Small Mammals, (excluding bats)	ALPAC FMA (Calling Lake)	2 of ongoing	CACB	EFFECTS OF LANDSCAPE FRAGMENTATION ON SMALL MAMMALS Objectives are to determine effects of patch size and forest edge on diversity and relative abundance of small mammals.	Yes	Ann Chan Chen McLeod	(604) 822-5442
111	Striped Skunks	Southern Alberta-Lethbridge	24 of ongoing	AAFRD	RABIES SUPPRESSION IN SKUNKS IN ALBERTA	No	Eric Hutchings Jamie Meeks Phil Merrill	381-5574
112	Swift Fox	Medicine Hat	1 of 5 yrs	CWS CCI	SWIFT FOX ECOSYSTEM STUDIES Evaluation of prey available, grazing pressures, swift fox population dynamics, survival.	Yes	L. Carbyn Ross Weir David Macdonald	435-7357
113	White-tail and Mule Deer	Hinton	1 of 3 yrs	U of A FMF	Response of sympatric populations of mule and white-tailed deer in relation to landscape change and sensory disturbance Looking at the interaction between these two species of deer and how their behaviours cause them to be impacted differently from logging and the sensory disturbances associated with the timber harvest practices.	Yes	Jay Gedir R.J. Hudson	492-1425
114	Wolves	ALPAC FMA	1 of 2 yrs	U of A	SELECTIVE PREDATION AND THE PREDATOR-PREY RELATIONSHIPS OF WOLVES, MOOSE AND CARIBOU IN NORTHEASTERN ALBERTA		Adam James	492-1299
115	Wolves, Bison	Wood Buffalo National Park	ongoing	CWS CCI	WOLF/BISON INTERACTIONS Impacts of wolf predation on calf survival.	Yes	L. Carbyn Ross Weir David Macdonald	435-7357
116	Woodland Caribou	N.E. Alberta	3 of 5 yrs	AFWS	NORTHEAST REGION WOODLAND CARIBOU RESEARCH PROGRAM	Yes	Blair Rippin	645-6313

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
117	Woodland Caribou	Chinchaga River-Fontas Hills	3 of 4-5 yrs	AFWS	Monitor movements of woodland caribou in Chinchaga River-Fontas Hills to determine extent of range and habitats and areas important to caribou on a seasonal basis.	Yes	Dave Moyles	624-6405
118	Woodland Caribou and associated species	North of Prince Albert Weyerhaeuser FLMA	1 of 4 yrs	CWS	ECOLOGY OF WOODLAND CARIBOU IN SASKATCHEWAN AND THE SUCCESSION OF HABITATS AFTER FIRE AND VARIOUS TYPES OF LOGGING	No	Don Thielack Harry Armbruster	435-7351





8. BIODIVERSITY AND GENERAL PROJECTS

No.	Species	Location	Progress	Agency	Title	Pr Rpt	Contact	Phone #
119	Aquatic invertebrates	Elk Island Park	1 of 2 yrs	AEC	EVALUATION OF LONG-TERM MONITORING USING AQUATIC INVERTEBRATES IN ELK ISLAND NATIONAL PARK Conducted inventory of limited number of habitats in park. Conducted literature review and made recommendations.	No	Richard Casey	632-8307
120	Aquatic/riparian	Greater Jasper National Park Region	2 of 3 yrs	PC	JASPER HIVEH USE STUDY Summary of current levels of recreational river use in Jasper National Park, and examination of real/potential impacts on riparian/aquatic habitat and associated wildlife. Identification of "sensitive" habitat and species in river corridors, habitat fragmentation.	Yes	Pete Clarkson Pam Wright	852-6204
121	Benthic Macro-invertebrates	North Saskatchewan River, Oldman River	2 of 2 yrs	AEC	DEVELOPMENT AND ASSESSMENT OF THE AIR-LIFT SAMPLER FOR SAMPLING BENTHIC MACROINVERTEBRATES IN RIVERS Field experiments were conducted to evaluate the air-lift as a quantitative sampler of different substrate sizes. Longitudinal survey of the Oldman River was conducted to evaluate the use of the air-lift in comparison with a quantitative sampler.	No	Richard Casey	632-8307
122	Birds Mammals Reptiles	Aspen Parkland Biome	2 of ongoing	NAWMP	BIODIVERSITY IN DIFFERENT HABITATS WITHIN THE ASPEN PARKLAND BIOME	Yes	David Prescott Andy Murphy Ernie Ewaschuk	422-1040
123	Butterflies ( <i>Parnassius sminthius</i> <i>Colias nasties</i> )	Banff National Park Kananaskis Valley	1 of 6 yrs	U of A	DYNAMICS OF ISOLATED ALPINE BUTTERFLY POPULATIONS Metapopulation dynamics and movement of butterflies among isolated alpine meadows.	No	Jens Roland Curtis Strobeck Nusha Keyghobadi	492-1180
124	Can be applied to all species that live in the boreal mixedwood ecoregion.	Northeast Region, Lower Boreal Mixedwood	3 of 5 yrs	AEP AAFRD	RANGE MANAGEMENT BENCHMARK PROGRAM LOWER BOREAL MIXEDWOOD ECOREGION Develop a guide to range condition and stocking rates (livestock). Information applies to wildlife, ie. plant community, biomass production of grasses, forbs and shrubs, and environmental data.	Yes	Dave Downing Ed Karpuk Gerry Ehlerit Chuck Richardson	427-0708
125	Carabid beetles, Staphylinid beetles, moths, butterflies	Lac La Biche/ALPAC FMA) Eureka FMA(DMI FMA)	3 of 3 yrs	CFS' U of A <sup>2</sup>	VARIATION IN DIVERSITY OR INSECTS IN RELATION TO GEOGRAPHY AND ASPEN AGE-CLASS	Yes	David Langor <sup>1</sup> John Spencer <sup>2</sup>	435-7330
126	Cyanobacteria- Microcystis spp. Rainbow Trout snails ( <i>Lymnaea stagnalis</i> )	Edmonton area, Athabasca, Camrose, Wetaskiwin	5 of 7 yrs	U of A AE	OCCURRENCE, ENVIRONMENTAL TOXICOLOGY, CONTROL, PERSISTENCE AND BIOACCUMULATION OF CYANOBACTERIA (BLUE-GREEN ALGAE) TOXINS IN ALBERTA LAKES We are looking at the extent to which these toxins occur in Alberta, and at the seasonal dynamics of cyano bacteria in relation to toxin production. Two grad students are looking at chronic and acute toxicity to fish and accumulation of toxins in the aquatic food chain. One grad student has looked at chemical control of cyanobacteria (i.e. drinking water treatment and recreation lakes) and how different chemicals affect the release of the toxins from cyanobacteria. She has also looked at the modes of toxin degradation (photodegradation, biodegradation).	Yes	Ellie Prepas Steve Hrukey Charles Holmes David Spink Dave Trew	492-3463
127	Elk, Bighorn Sheep, Moose, Mountain Caribou, Mountain Goat, Mule Deer, White-tailed Deer, Large Carnivores	Jasper National Park	3 of ongoing	PC	WILDLIFE MORTALITY REDUCTION PROGRAM An ongoing project to identify and investigate ways to reduce wildlife mortality along road and rail transportation corridors in Jasper National Park. Presently, a literature review is complete and an intensive program review of collecting digital information on highway traffic, highway maintenance, chemical and aggregate use, weather, and traffic accident parameters is being assembled to fill knowledge gaps. The final phase of the project will involve several research projects to test the effectiveness of various theories on how mortalities can be reduced.	Yes	Wes Bradford Evan Manners	852-6155

No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
128	Fish	Northern Alberta	4 of 4	DFO' NRBS	STABLE ISOTOPE ASSESSMENT OF TROPHIC POSITION AND FOOD SOURCE To construct a food chain diagram from primary producers to piscivorous fish and riparian wildlife. The data from this study, in combination with stomach content analysis, will provide an understanding of feeding relationships and how contaminants might be transferred up the food chain. The identification of food sources can also provide information on the potential exposure which fish of different species and at different locations are subjected to.	No	Ray Hesselin' (NRBS)	427-1742
129	Freshwater Invertebrates	Calgary	25 of ongoing	U of C	BIODIVERSITY OF ALBERTA FRESHWATER ECOSYSTEMS (LAKES, PONDS, STREAMS, RIVERS)	Yes	R.W Davies	220-5275
130	Freshwater Invertebrates	Calgary	2 of 5 yrs	U of C	TAXONOMY OF FRESH WATER LEECHES IN ALBERTA.	Yes	R.W. Davies	220-5275
131	Freshwater Invertebrates	Calgary	ongoing	U of C	EFFECTS OF NATURAL AND ANTHROPOGENIC STRESSES ON THE BIOENERGETICS OF FRESHWATER MACROINVERTEBRATES	Yes	R.W. Davies	220-5275
132	General	N.E., Alberta	4 of 4 yrs	AEC	EFFECTS OF STAND AGE ON STRUCTURE AND BIODIVERSITY OF ASPEN MIXEDWOOD FORESTS IN NORTHEAST ALBERTA	Yes	Brad Stelfox Larry Roy Phil Lee	632-8347
133	General	Northern Alberta	3 of 3	UBC' NRBS	RIPARIAN WILDLIFE HABITAT DATA COLLECTION - PEACE RIVER Changes in river channel morphology and riparian vegetation in four selected reaches of the Peace River is being related to the historical hydrologic record over the period 1950 to 1993. Measurement of observed changes is being based on interpretation of aerial photographs. This is a parallel study aimed at classifying riparian vegetation communities for a greater distance back from the river bank than is required solely for Project 1321-D1. This information will support a proposed study in 1995/96 examining changes in riparian wildlife habitat suitability associated with river regulation.		Michael Church' Margaret North'	427-1742 (NRBS)
134	General	Frank Lake near High River	1 of N/A	CCS DU	RARE PLANT, AMPHIBIAN, REPTILE, BIRD AND MAMMAL SURVEYS AT FRANK LAKE, ALBERTA	No	Cliff Wallis Cleve Wershler	271-1408
135	General	Althabasca area	2 of 2 yrs	U of A	FENCEROWS AS HABITAT FOR BIRDS AND SMALL MAMMALS Fragmentation of the landscape by agricultural practices results in a mosaic of fields interspersed with isolated woodlots and fencerows (lines of trees along field edges). These fencerows provide a large portion of the available wooded habitat for the support and maintenance of many wildlife populations. My study examines factors affecting birds and small mammal populations in fencerows.	No	Ansley Sykes Stan Boutin Susan Hannon	492-4737
136	General	ALPAC FMA	2 of 2 yrs	UBC ALPAC	HANDLING UNCERTAINTY IN FOREST INVENTORIES AND MODELS Looks at how uncertainties in inventory data and growth and yield models affect the conclusions we draw from such data. May be relevant to wildlife habitat studies.	Yes	Michael Joy S. Cumming F. Schmeigslow Brian Klinkenberg	(604) 822-6282
137	General	South of Calling Lake (near Smith), the South Pelican Hills Region (East of Slave Lake), North of Lac La Biche (regions in ALPAC'S FMA)	1 of 5 yrs	TROLS U of A	THE ROLE OF BUFFER STRIPS FOR MAINTENANCE OF TERRESTRIAL AND AQUATIC COMMUNITIES IN THE ASPEN-DOMINATED BOREAL MIXED-WOOD FOREST Examining how buffer strips of different widths affect plant and animal communities in riparian and aquatic habitats of lakes and streams in northern Alberta.	No	Ellie Prepas Stan Boutin Susan Hannon E. MacDonald C. Paszkowski	492-3625



No.	Species	Location	Progress	Agency	Title	Pr. Rpt	Contact	Phone #
138	General	Calgary	ongoing	CWRS	CWRS is dedicated to rehabilitating injured and orphaned wildlife, and in the process provide motivational work for inmates and a community service. Anyone finding wildlife is asked to call their local veterinary clinic for a referral to a clinic accepting wildlife from the general public free of charge. Local veterinary clinics provide initial treatment and CWRS picks the bird/animal up for long-term treatment and release.	Yes	Jill Sorensen	234-2942
139	General	Vegreville	1 of ongoing	AEC AWFS ALPAC DMI WOC WEYER CANFOR	Alberta Forest Ecosystem Information Services  This service was developed to aid wildlife professional and researchers in obtaining literature and information on forest topics. Information is accessed using several different databases and Internet. Literature searches along with hardcopies are provided upon request.	Yes	Greg Radstauk	632-8310
140	General	Raven, Alberta	ongoing	MRWRC	Rehabilitate and release back to the wild, injured and orphaned native Albertan wildlife. Educate the public to understand and respect our wildlife.	No	Carol Kelly	(403)728 3467
141	Insects and related arthropod groups, focusing on the Coleoptera (Beetles)	Lac La Biche area, and Eureka River (Peace River District)	2 of 3 yrs	U of A  DMI ALPAC	THE ARTHROPOD DIVERSITY OF <i>POPULUS</i> SPP. COARSE WOODY MATERIAL  Purpose is to identify the arthropod associated with <i>Populus</i> dead wood in north central Alberta; and to assess the effects of region, stand age, and decay class effects on the beetle fauna.	No	James Hammond John Spence David Langor	492-3080
142	Leptidoptera (Moths) ( <i>Malac osoma dissina</i> ), Sarcophagid flies ( <i>Sarcophaga atrichii</i> ), Tachinid flies ( <i>Leschenauithia exul</i> , <i>Palloea</i> )	Cooking Lake-Ministik Hills	2 of 6 yrs	U of A	EFFECT OF FOREST FRAGMENTATION ON THE DYNAMICS OF FOREST TENT CATERPILLAR AND ITS NATURAL ENEMIES	Yes	Jens Roland Phil Taylor Barry Cooke Ed Mondor	492-1180
143	Purple Loosetitle	Alberta	2 of 3 yrs	SFGA AAFRD DU	PROJECT PURPLE LOOSESTRIPE This project is to increase public awareness of Purple Loosetitle. To eradicate Purple Loosetitle where infestations occur in Alberta and to prevent further infestations from occurring.	Yes	Stephen Dusak	427-7098
144	Sharp-tail Grouse, White-tail and Mule deer, waterfowl, breeding birds (passerines), herptiles and raptors surveyed	Wainwright	1 of 2 yrs	DND BCL FMCA HBT AGRA	ENVIRONMENTAL ASSESSMENT AND NATURAL RESOURCE MANAGEMENT STRATEGY FOR CFB WAINWRIGHT One component entails wildlife population inventories or sharp-tail grouse lek, raptor nests surveys, ungulate counts, breeding bird surveys, reptile surveys and habitat quality assessment.	No	Judy Smith	264-2140
145	Songbirds, deer mice, voles, shrews, grasshopper mice	Leithbridge	2 of 3 yrs	AAFRD EC AFC	EFFECTS OF GRASSHOPPER INSECTICIDES ON FOOD RESOURCES AND REPRODUCTIVE SUCCESS OF GRASSLAND WILDLIFE The insecticides, Decis and Furadan, were aerially sprayed on plots of pasture habitat to determine the ability of insectivorous songbirds and small mammals to survive and reproduce after removal of over 95% of grasshoppers and other insects.	Yes	Dan Johnson Pamela Martin Doug Forsyth	327-4561



No.	Species	Location	Progress	Agency	Title	Pr. Rpt.	Contact	Phone #
146	Terrestrial Lichens (Woodland Caribou)	Hinton	2 of 3 yrs	U of A WOC FMF	<p>THE EFFECTS OF FORESTRY PRACTICES ON LICHEN COMMUNITIES IN THE FOOTHILLS OF WEST CENTRAL ALBERTA</p> <p>The purpose of this study is to quantitatively describe the original vegetation of 3 subalpine lodgepole pine stands and determine the immediate effects of various logging practices on the vegetative composition and structure of these stands. Particular emphasis will be placed on the terrestrial lichen communities since the results will aid in the recommendations to industry as to the forestry practices most appropriate to lichen recovery and maintenance of caribou habitat.</p>	Yes	Kenneth A. Krautod	492-5617
147	Varied	Suffield C.F.B.-Proposed National Wildlife Area	1 of 3 yrs	CWS PMA GCS	<p>VEGETATION INVENTORY</p> <p>To develop a comprehensive vegetation classification and map of plant communities and to develop a monitoring process for assessing vegetation change in response to disturbances and for evaluating recovery of the range.</p>	Yes	G. Trollet G. Adams P. Gregoire	975-4093
148	Vertebrates	Peace Parkland/Aspen Parkland/Plains	2 of ongoing	NAWMF	ASSESSMENT OF WATERFOWL MANAGEMENT PRACTICES ON NON-WATERFOWL SPECIES OF WILDLIFE IN ALBERTA	Yes	David Prescott Andy Murphy Bob Goddard Reg Airbuckle	422-1040



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Phone (604) 822-5724 Fax (604) 622-5410



10. PROJECT FORM

Please mail this form to: **Greg Radstaak**  
**Wildlife Ecology Branch**  
**Alberta Environmental Centre**  
**Bag 4000**  
**Vegreville, Alberta**  
**T9C 1T4**

**Note-**If there is more than 1 project or study please make additional copies of this form

**Project Leader(s)** \_\_\_\_\_

**Address** \_\_\_\_\_

**Postal Code** \_\_\_\_\_

**Telephone No.** \_\_\_\_\_

**Fax No.** \_\_\_\_\_

**E-Mail Address** \_\_\_\_\_

**Name of Supporting Organization(s) or Agency(ies)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project (please include title and give a brief description of project)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Wildlife Species or Species Group Studied**

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**Location of Project(nearest settlement or major geographical feature or area)**

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**Start Date of Project; Length of Project; Progress(e.g. Start-1994; Length-10 years, Progress-2nd year)**

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**Are progress reports or publications available? Yes**

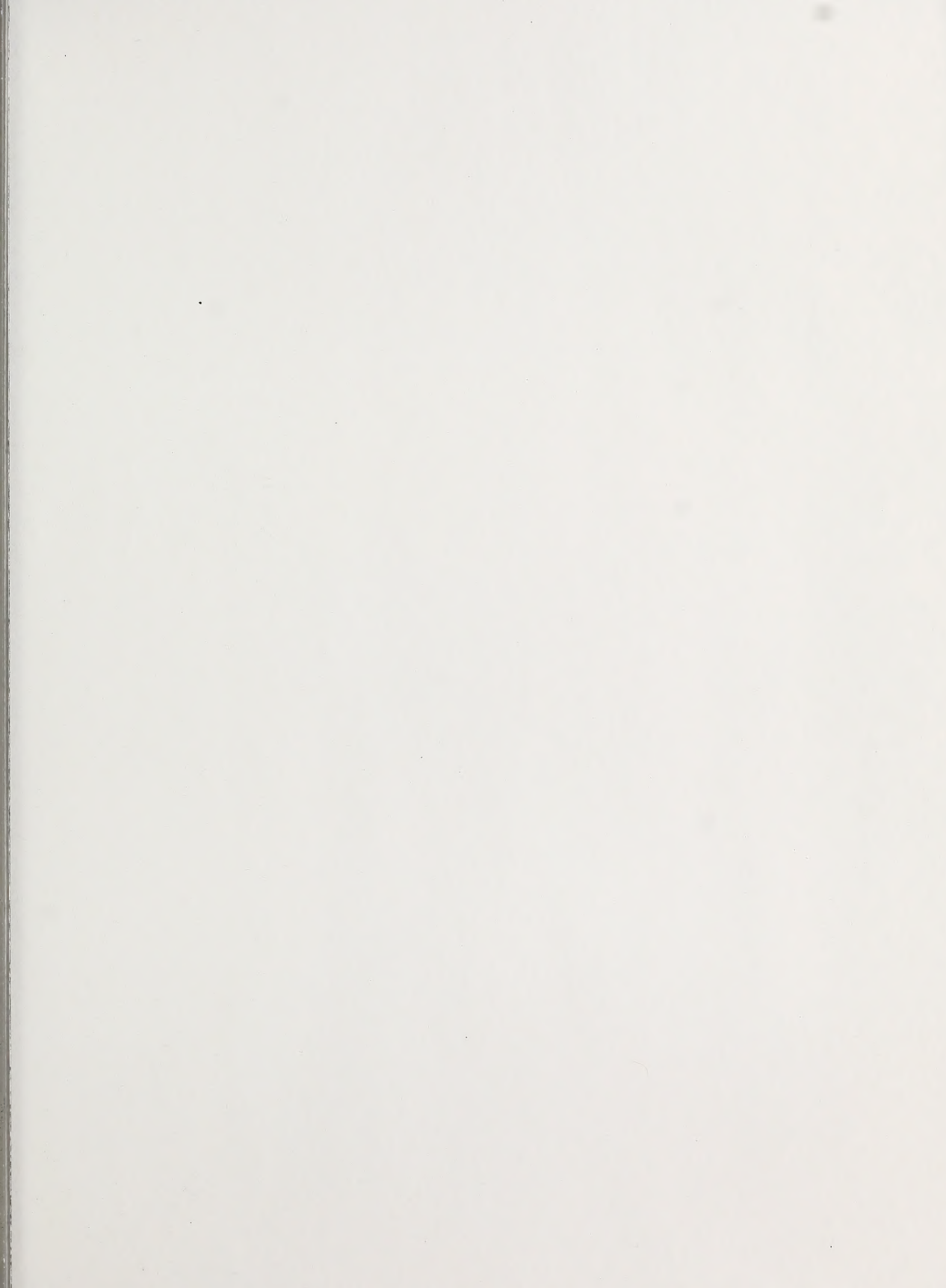
**No**

**If available please indicate where copies can be obtained**

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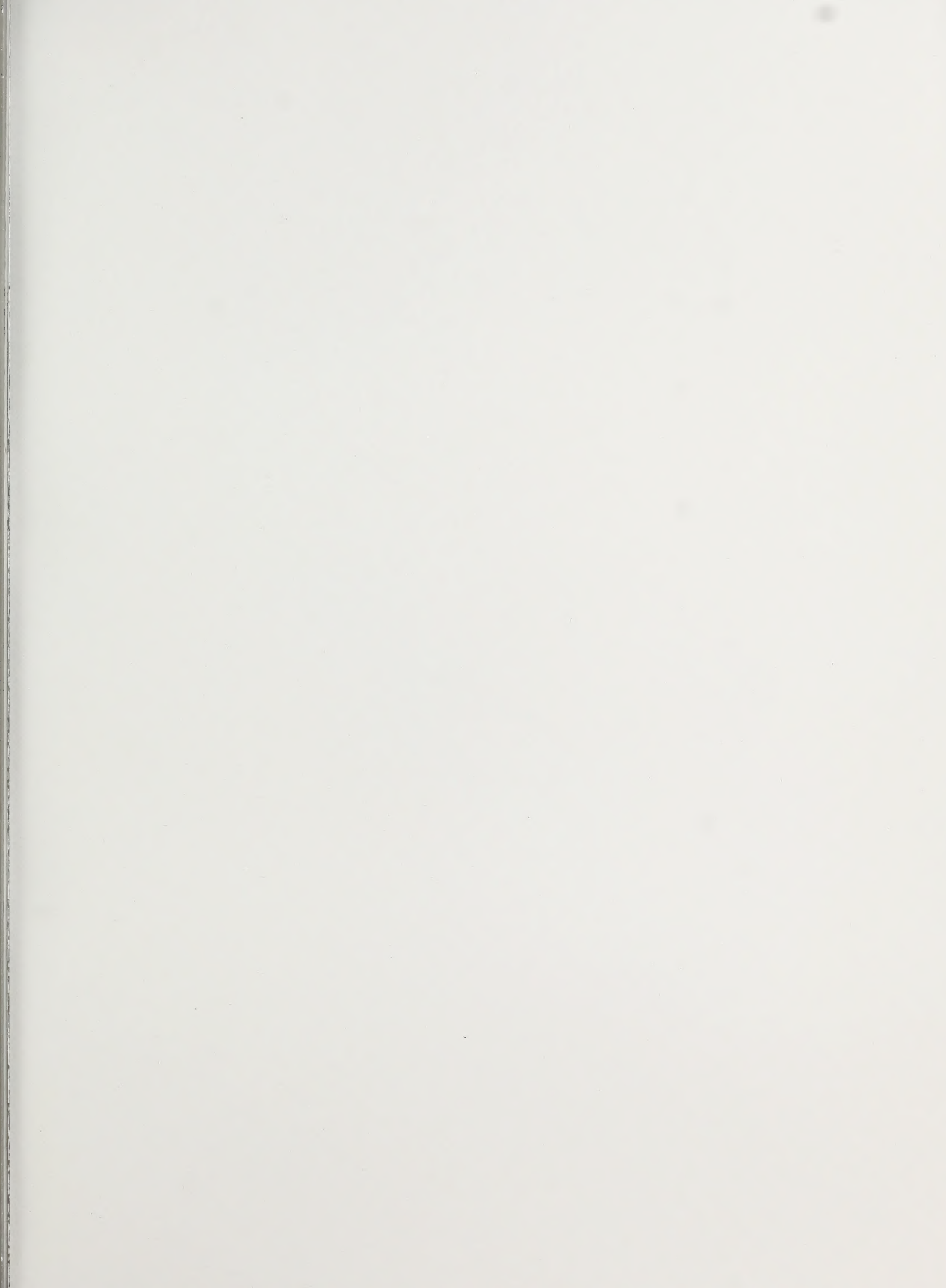
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