

1995 Project Abstract For the Period Ending June 30, 1997

This project was supported by the Minnesota Legislature, ML 95, Chapter 220, Sec. 19, Subd. 6(e), as recommended by the Legislative Commission on Minnesota Resources from the Minnesota Future Resources Fund.

TITLE: Development, Assimilation and Distribution Of Wolf Educational Materials

PROJECT MANAGER: Walter M. Medwid

ORGANIZATION: International Wolf Center (IWC)

ADDRESS: 1396 Hwy. 169, Ely, MN 55731

WEB SITE ADDRESS: <http://www.wolf.org>

LEGAL CITATION: ML 95, CHP. 220, Sec. 19, Subd. 6(e)

APPROPRIATION AMOUNT: \$100,000.00

Statement of Objectives

- Set-up/survey/catalog existing IWC materials on wolves. Establish protocol for acquiring future wolf resources
- Identify and acquire significant resource materials not existing within IWC library. Ensure comprehensiveness of IWC's clearinghouse of wolf information
- Establish on-site public access computer to house a bibliography of wolf resources and provide internet access for searching for additional resources.
- Develop wolf education "packages"-develop user-friendly wolf education units focused on major areas of interest; establish scheme for future maintenance of information systems
- Organize/catalog/digitize A-V materials-make slide/audio and video, and research resources available
- Publicize existence of service and resources-ensure public awareness of the program

Overall Project Results

- The Information Resources department that has been established responds to an average of over 300 information requests per month. This is significant since there are not many other wolf organizations educating the public on this scale.
- Wolf education materials were surveyed and acquired. The computer bibliography of wolf resources to-date contains 780 books, 1738 journal and conference citations, and 76 curriculum resources. The number of resources currently exceeds the printed bibliography. New resources are sent by wolf researchers as they are made available. The catalog and bibliography will be updated quarterly on the IWC web site. The current IWC collection of books and scientific literature is unique because there is no other collection like it available.
- A on-site public access computer workstation has been established. The primary audiences have been the general public, education program participants, and college students. Feedback during use has fine tuned the access procedures and available printing options.
- Two wolf education packages have been developed; 1) the 32-page *Canis lupus*: Meet the Gray Wolf and 2) Wolves Around the World: 1997 Update; 50 pages. Both publications are available in hard copy and on our web site.
- Slide sets, videos, teacher guides, hands-on material, fact sheets, and other education resource materials have been organized and cataloged.
- Over 250 pages have been established on our web site. New ideas and efforts are being explored continually to keep our page updated. Hits or visits to our site average over 20,000 per week.

Project Results Use and Dissemination

- Grant products are being used by teachers, students, wolf researchers and the general public. Over 700 individual products have been distributed. This figure does not include the number of people that are finding and printing off information from our web site or the over 7,000 information requests that have been handled by the Information Resources department.
- Publicity of the web site and other grant products has been accomplished through conference presentations and booths, information articles and references in publications, distributed brochures and fliers, and a press release.
- Several inquiries have been made from other groups about our library, its resources, and how it was established. One group which is based in Germany is trying to establish a knowledge center for bears.
- Several students and classrooms have received awards for their science projects which include the radio-telemetry information from the IWC web site. Please see the newspaper article in the enclosed report which outlines the award won by Mayo High School in Rochester, MN.

Note: Grant products and materials were sent throughout the grant period as they were completed.

JUL 10 1997

JULY 1, 1997
LCMR Final Work Program Update Report 1995-1997

I. Project Title and Number. Development, Assimilation and Distribution Of Wolf Educational Materials #M24

Program Manager: Walter M. Medwid
Agency Affiliation: International Wolf Center (IWC)
Mail Address: 1396 HWY 169, Ely, MN 55731
Phone: (218) 365-4695
Fax: (218) 365-3318

A. Legal Citation: ML 95, CHP. 220, Sec. 19, Subd. 6(e)
Total biennial LCMR appropriation: \$100,000.00
Balance: \$135.79*

Appropriation Language This appropriation is from the future resources fund to the office of environmental assistance for an agreement with the International Wolf Center to collect and develop written, electronic, and photographic audio-visual material about wolf ecology, recovery, and management for electronic distribution. This appropriation must be matched by at least \$30,000 of non state money.

B. Status of Match Requirement:
Match Required: \$30,000.00
Amount Committed to Date: \$30,000.00
Match Spent: \$30,000.00*

II. Project Summary: The International Wolf Center collected and developed state-of-the-art written, electronic, and photographic audio-visual material about wolf ecology, recovery, and management for electronic distribution to Minnesota schools, nature centers, and other interested individuals and organizations located throughout the world. The intent of this effort was to provide Minnesota citizens and the general public with information about the complex and controversial issues surrounding the wolf. The grant enhanced IWC's standing as the clearinghouse for education materials about the wolf as well as a full range of general and scientific information about the species particularly as its status in Minnesota and other locations around the country changes as the predator makes a significant comeback. In addition this project integrated its resources with the state's Environmental Education Advisory Board's SEEK program to ensure maximum accessibility of information on the wolf. Citizens that are well informed about the controversies surrounding future management of the wolf will make better decisions.

III. Two-Year Progress Summary:
The new Information Resources department was established. All of the materials currently held by the IWC were surveyed and readied for cataloging. Additional materials arrived daily as a result of the mailings to wolf experts and organizations. The highlight of this period was that the computer system for staff was set up, and the beginning of the World Wide Web site on the Internet was in place (URL: <http://www.wolf.org>). The public access computer was purchased. Beginning in early 1996, a cooperative effort was attempted to develop the basic wolf education package, and the draft bibliography was begun. A base line inventory of resource materials was completed. Computer systems were set in place for the web site with initial statistics showing ~20,000 hits/wk. Drafts of the bibliography, basic wolf education package, and advanced wolf

education package were completed. During its first year of operation our web site received 1.2 million hits. Moreover, hundreds of requests for information were received and answered each month by letter, e-mail, and telephone. The final cataloging of library resources totaled 604 books, 133 conference proceedings, and 1645 scientific articles. The bibliography of wolf resources was printed and distributed to the wolf research community. A protocol was established for the future maintenance and updating of the bibliography. The public access computer was set up, piloted, and fine tuned. The Basic Wolf Education Package and Advanced Wolf Education Package were printed and placed on-line. The bibliography of wolf resources was also put on the web site in a searchable format for use by the general public and wolf researchers. A search for wolf education resources was completed by surveying wolf organizations, teacher catalogs, and libraries. Items were purchased to create a new wolf curriculum resource section in the library. A catalog with a secure transactions system was developed for providing access to education materials and books. A brochure was developed to announce the availability of the Basic and Advanced Intensive Wolf Packages and the wolf-tracking project on our web site. The brochure was developed as a joint project between the Information Resources and Education departments. The grant products were announced at wolf conferences in New York and Minnesota, environment and science conferences in Illinois, North Dakota, and Minnesota. Grant products were cited in numerous publications (see enclosed report and video). A press release was sent to about 500 media contacts. There is also information posted on our web site that lists the grant products and availability.

IV. Statement of Objectives:

- A. Set-up/survey/catalog existing IWC materials on wolves**-establish foundation for program and wolf resources
B. Identify and acquire significant resource materials not existing within IWC library-ensure comprehensiveness of IWC's clearinghouse of wolf information
C. Establish on-site public access computer terminal as prototype-begin delivery of services; obtain feedback of users before going on-line
D. Develop wolf education "packages"-develop user-friendly wolf education units focused on major areas of interest; establish scheme for future maintenance of information systems
E. Organize/catalog/digitize A-V materials-make slide/audio and video, and research resources available
F. Publicize existence of service and resources-ensure public awareness of the program

Timeline for Completion of Objectives:

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Objective A Set-up/Survey/Cat. IWC resources	XXXXXXXXXXXXXXXXXX	Completed						
Objective B Identify/Acquire add'l. resources			XXXXXXXXXXXXXXXXXX	Completed				
Objective C Establish on-site prototype			XXXXXXXXXXXX	Completed				
Objective D Develop Wolf Ed. packages			XXXXXXXXXXXXXXXXXX	Completed				
Objective E Develop A-V/research resources					XXXXXXXXXXXX			
Objective F Publicize program							XXXXXXXXXX	Completed

V. OBJECTIVE/OUTCOME:

A. Title of Objective/Outcome: Review existing wolf materials

A.1. Activity: Survey existing IWC wolf materials
A.1.a.Context within the project: Establish a foundation of known wolf information which is organized via electronic cataloging consistent with protocols established by MNEEAB.
A.1.b.Methods: Existing wolf materials will be reviewed and cataloged; computer equipment will be purchased to accomplish this; wolf organizations and experts from around the world will be contacted in order to obtain additional information, to establish a link for obtaining information in the future and to make the project known worldwide.
A.1.c. Materials: Computer (\$2500)/software (\$2000)/scanner (\$2580)/telecommunication equipment(\$750)/printers (\$750) total \$8,580. This equipment will be purchased as it is our intent to continue the information resources department as an on-going IWC department beyond the LCMR grant period.
A.1.d. Budget
Total Biennial LCMR Budget: \$18,390.00
LCMR Balance: (-\$0.32)*
MATCH: \$9,580.00
MATCH BALANCE: \$133.82*
A.1.e. Timeline:

7/95 9/95 12/95 3/96 9/96 12/96 3/97 6/97

Product 1
Survey of IWC materials XXXXXXXX Completed

Product 2
Establish computer system for program XXXXXXXXXXXX Completed

Product 3
Catalog IWC materials XXXX Completed

Product 4
Mailing to Wolf Orgs/Experts XXXXXX Completed

A.1.f. Workprogram Summary: The survey of materials took longer than expected because all materials were not located at the same site. Materials surveyed included books, journals, scientific articles, curricula, videos and slides. This established a base line from which to solicit additional resources. A bibliography database was established and some records were imported from other bibliography lists. The mailing to the wolf experts occurred early and was met with a great deal of support. The mailing to the wolf organizations and other related wildlife organizations was completed later to ensure that our target mailing list was complete and as effective as possible. These two mailings resulted in additional materials being added to our collection and the creation of a directory of wolf organizations which is available in hard copy and on-line.

A.2. Activity: Assemble draft Wolf Bibliography
A.2.a. Context within the project: This component of the project compiles all wolf information within the context of a bibliography.
A.2.b. Methods: All of IWC's materials plus those obtained/located from other sources are entered into a bibliographic database. Protocols used will be those established by SEEK to ensure maximum accessibility.
A.2.c. Materials: Publication of wolf bibliography done initially in draft form for review by key reviewers.
A.2.d. Budget:
Total Biennial LCMR Budget: \$9,000
LCMR Balance: (-\$1.30)*
MATCH: -0-
MATCH BALANCE: -0-*
A.2.e. Timeline:

7/95 9/95 12/95 3/96 9/96 12/96 3/97 6/97

Product 1
Draft Bibliography XXXXXX Completed

A.2.f. Workprogram Summary: Resources were compiled into a bibliography database. A wolf expert in Europe was contacted to help compile resources that had been published internationally. The total number of references distributed in the draft bibliography was 2,018.

B. Title of Objective/Outcome: Complete acquisition of wolf materials and development of bibliographies.

- B.1. Activity:** Seek review of bibliography for omissions and obtain those publications.
- B.1.a.Context within the project:** This step ensures comprehensiveness of the International Wolf Center "library" of wolf materials.
- B.1.b.Methods:** The draft bibliography will be mailed to wolf information specialists for review and for identification of missing publications which would then be obtained by International Wolf Center and incorporated into bibliography.
- B.1.c.Materials:** Purchase of texts, journals, mss, and related materials. Payroll will be a major expense in finalizing the bibliography database.
- B.1.d.Budget**
Total Biennial LCMR Budget: \$5,770.00
LCMR Balance: (-\$38.67)*
MATCH: \$3,100.00
MATCH BALANCE: \$645.74*
- B.1.e.Timeline:**

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Product 1								
Distribute draft bibliography			XXX		Completed			
Product 2								
Obtain important journals, articles, etc.					XXXX	Completed		
Product 3								
Finalized bibliography					XXXXXXXXXX	Completed		

B.1. f. Workprogram Summary: A draft bibliography containing 2,018 references was mailed to 20 wolf researchers from around the world for review. International wolf researchers were specifically contacted to help us compile published international references that we may not have had access to. All of the researchers were also asked to edit the draft bibliography and return changes, deletions, or additions to the Information Resources Department. While the draft was inclusive by design, the remainder of the grant period was allocated to editing records to ensure the relevancy of each reference. As the bibliography reviews were returned, materials were identified and compiled for addition to the collection. The purchase of additional resource material was made once all the reviewers submitted their comments. Purchases were made in quantity to reduce the costs of postage and handling and to take advantage of any applicable discounts. One item was purchased immediately since it was a unique item that may not have been available in the future. By January 1, 1997, 63 books had been purchased for the library. Over 100 journal articles were donated for entry into the final bibliography. The printed bibliography contains 604 books, 133 conference proceedings, and 1645 scientific articles; based on the final cataloging efforts at that time (see enclosed report and video).

- B.2.Activity:** Publish and distribute International Wolf Center wolf bibliography.
- B.2.a.Context within the project:** This step makes available in final form the complete wolf bibliography/catalog in hard copy format with reference to electronic availability of material.
- B.2.b.Methods:** Hard copies are printed and distributed to key resources and made available on-line at the same time. Procedures to update the bibliography and obtaining those updates are also determined in this step.
- B.2.c.Materials:** Print and distribution costs will not be as much as originally thought due to the on-line accessibility of the bibliography.
- B.2.d. Budget**
Total Biennial LCMR Budget: \$6,250.00
LCMR Balance: \$21.55*
MATCH: \$600.00
MATCH BALANCE: (-\$300.00)*
- B.2.e.Timeline:**

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Product 1								
Publish bibliography						XXXXXX	Completed	
Product 2								
Distribute hard copies of bibliography							X	Completed
Product 3								
Plan/est. procedures for future maintenance						XXXX	Completed	

B.2.f.Workprogram Summary: The final edited copy of the bibliography was sent to the printer and hard copies were distributed to wolf researchers and interested parties. A protocol for maintaining and updating the bibliography was completed. Wolf researchers continue to send new articles for inclusion in the bibliography. Yearly requests will be sent to remind researchers to keep our library on their publication distribution list. Quarterly updates will be made available on our web site. It is anticipated that the web site version will diminish the need for hard copies of the bibliography. The web site version will also make the bibliography more accessible to the general public.

C. Title of Objective/Outcome: Establish a prototype for electronic distribution of wolf education materials.

C.1.Activity: Develop on-site public access computer for wolf education/information material set-up.

C.1.a.Context within the project: This step allows for immediate testing of and changes to the delivery system and content of International Wolf Center's wolf education/information materials.

C.1.b.Methods: The on-site system will be incorporated into International Wolf Center facility and be used independently by the public. International Wolf Center staff will interview users for feedback on the ease of use and content of the unit.

C.1.c.Materials: Computer(\$2,000)/printer(\$500)/Desk(\$400)/chair(\$100)/wiring(\$300) and miscellaneous(\$200). This equipment would be purchased with continued use by the public as a standard feature. This equipment will be purchased as it is our intent to continue the information resources department as an on-going IWC department beyond the LCMR period.

C.1.d. Budget

Total Biennial LCMR Budget: \$10,705.00

LCMR Balance: \$0.77*

MATCH: \$3,500.00

MATCH BALANCE: \$79.30*

C.1.e.Timeline:

7/95 9/95 12/95 3/96 9/96 12/96 3/97 6/97

Product 1
ID/Acquisition of prototype equipment XXX Completed

Product 2
Operation of prototype XXXXX Completed

Product 3
Revisions of prototype XXX Completed

C.1.f.Workprogram Summary: The public access computer and workstation were purchased a little later than anticipated. More time than was anticipated was spent evaluating the types of software available with different packages and what would be needed for the workstation. The public access computer was up and running by June 1996. The bibliography resources are available in a FileMaker Pro database and used in conjunction with certain educational programs. The bibliography database contains a complete listing of our library holdings in addition to numerous journal citations (see enclosed report and video). Internet access to the IWC's web site is also offered to library visitors. Currently the public access computer is used by college students, education program participants, and the general public. Continued efforts are being made to collaborate with the Vermillion Community College instructors to use the IWC library as a course resource and as an opportunity for student library research projects.

D. Title of Objective/Outcome: Develop and place on-line education "packages".

D.1.Activity: Develop basic wolf education package.

D.1.a.Context within the project: The development of the basic wolf education package provides an easily accessible user-friendly unit covering basic wolf information, education materials and contemporary topics for students and instructors to conveniently obtain basic wolf information and resources.

D.1.b.Methods: Using guidelines developed by SEEK, International Wolf Center will customize its materials and those of others (Vermillion Community College) to meet the needs and interest of teachers and students around the country.

D.1.c.Materials: Printed materials (\$4,100).

D.1.d.Budget

Total Biennial LCMR Budget: \$11,090.00

LCMR Balance: \$0.21*

MATCH: \$4,250.00

MATCH BALANCE: \$8.84*

D.1.e.Timeline:

7/95 9/95 12/95 3/96 9/96 12/96 3/97 6/97

Product 1
Basic wolf education package/BWEP XXXXXXXX Completed

Product 2
On-line accessibility of BWEP XXXX Completed

D.1.f.Workprogram Summary: Originally this project was trying to coordinate its efforts with two other organizations, the Science Museum of Minnesota and the Minnesota Zoo. Each organization was developing educational materials on the wolf. It did not make sense to continue in this fashion if we could all combine resources and produce one final product that would exceed the results otherwise expected. Ultimately a joint project could not be worked out and time constraints compelled us to move forward. A draft basic wolf education package was completed and readied for publication. Three thousand copies of the Basic Wolf Education Package (BWEP) were printed (see enclosed report and video). The final title is, "*Canis lupus*: Meet the Gray Wolf." Two weeks after BWEP was put on our web site, we received our first internet order for this publication.

D.2.Activity: Develop extended wolf education package.

D.2.a.Context within the project: This step expands wolf information beyond that which is available in the basic package and serves as the transition for the user "touring" the information system without benefit of the packages.

D.2.b.Methods: Using guidelines developed by SEEK, International Wolf Center will develop an advanced "package" of wolf information which expands the content of the basic package and guides users of the system to obtain additional wolf information without benefit of the packages. This enhanced package is structured in a way to introduce the organizational system of wolf information and resources.

D.2.c.Materials: Printing materials (\$2,500).

D.2.d.Budget

Total Biennial LCMR Budget: \$20,795.00

LCMR Balance: (-\$7.83)*

MATCH: \$3,820.00

MATCH BALANCE: (-\$1.49)*

D.2.e.Timeline:

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Product 1								
Develop advanced package						XXXXXXXX	Completed	
Product 2								
Advance package on-line						XXXX	Completed	
Product 3								
Place catalog and bibliography on-line						XXXXX	Completed	

D.2.f.Workprogram Summary: Six-hundred copies of the Advanced Wolf Education Package, "Wolves Around the World: 1997 Update," were printed (see enclosed report and video). We have already received orders for this package due to the promotional brochure completed and mailed during January. The catalog and bibliography are now on our web site. The searchable format of the bibliography and catalog of resources makes it very useful to visitors of our web site. Use of the bibliography in this form will probably supersede the hard copy format because of its ease in searching resources and citations.

E.Title of Objective/Outcome: Prepare special wolf education/information resources.

E.1.Activity: Identify, organize and catalog A-V and miscellaneous resources.

E.1.a.Context within the project: This step incorporates other than printed materials into the electronic delivery system.

E.1.b.Methods:A thorough review of available photographic, audio, telemetry and miscellaneous resources will bring additional materials to the classroom to enhance the learning process about the wolf.

E.1.c.Materials: Acquisition of resources (\$4,385).

E.1.d.Budget

Total Biennial LCMR Budget: \$11,500.00

LCMR Balance: \$21.83*

MATCH: \$4,400.00

MATCH BALANCE: (-\$616.21)*

E.1.e.Timeline:

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Product 1								
Organize/catalog materials						XXXXXXXXXXXX	Completed	
Product 2								
Purchase additional materials							XXX	Completed
Product 3								
Digitize appropriate materials						XXXXXXXXXXXX	Completed	
Product 4								
Place on-line						XXXXXXXX	Completed	

E.1.f.Workprogram Summary: Over 1,500 slides were cataloged into a database. Over 40 slides were digitized and put on our web site. About 500 more slides were digitized in anticipation of adding some of them to the web site. One issue that we did not anticipate with photographers is the ability of internet browsers to manipulate photography. While most photographers are willing to let us use slides/photos for educational presentations and brochure artwork, some are not willing to let their work be accessed on the internet. We were not able to put as many pictures on our web site as we originally anticipated. Wolf organizations, teacher catalogs and libraries were surveyed for available wolf education resources. Resources were donated and also purchased to be included in a "Curriculum Resource" section of our library (see enclosed report and video). The resources were also cataloged in our bibliography which is available at our public access workstation and on our web site.

F.Title of Objective/Outcome: Publicize availability of resources.

F.1.Activity: Disseminate information to appropriate agencies nationally and internationally.
F.1.a.Context within the project: This step notifies interested parties of the availability of the services.
F.1.b.Methods: Both mail and electronic means will be used to announce and describe the resources available.
F.1.c.Materials: Printing and mailing of announcement.
F.1.d.Budget
Total Biennial LCMR Budget: \$6,500.00
LCMR Balance: \$139.55*
MATCH: \$750.00
MATCH BALANCE: \$50.00*
F.1.e.Timeline:

	7/95	9/95	12/95	3/96	9/96	12/96	3/97	6/97
Product 1								
Prepare/mail/e-mail announcement of services						XXXXXXXXXX	Completed	
Product 2								
Project review evaluation						XXX	Completed	

F.1.f.Workprogram Summary: A brochure was developed to announce the availability of the Basic and Advanced Intensive Wolf Packages and the wolf-tracking project on our web site. The brochure was developed as a joint project between the Information Resources and Education departments. Grant products were announced at wolf conferences in New York and Minnesota, environment and science conferences in Illinois, North Dakota, and Minnesota. Grant products have also been cited in numerous publications (see enclosed report and video). A press release was sent to about 500 media contacts. There is also information posted on our web site that lists the grant products and their availability.

Evaluation of this project included compiling statistics on information requests handled by the Information Resources department. An average of over 300 requests are handled by this department each month. About 26 percent of all requests were from the state of Minnesota. Requests came from every state and over 20 other countries. Web page statistics average over 20,000 hits per week with a record weekly number of hits at over 62,000. Teachers and general public who are using the web site telemetry data were surveyed. They rated our site easy to use. The most common improvement suggested was to include curriculum on our web site to compliment the telemetry data. Several teachers responded that they might be willing to share curriculum ideas on our web site. This idea will be pursued as a department objective in the next year. Our web site has also won several awards. Please see the enclosed video and report for further information about the project evaluation.

VI. Evaluation: The project was evaluated based on the usage of the information system-both electronic and written. Feedback from users, especially teachers, was sought in order to improve the system. We measured usage of the system; developed a system to encourage feedback and suggestions for improvements of the system; and we implemented evaluations of selected users of the system.

VII. Context within field: This program makes available rapidly changing developments as wolves in Minnesota and elsewhere continue to extend their range, as wolves are introduced into new areas such as Yellowstone National Park, and as the species moves closer to being removed from the endangered species list (in MN). The IWC's relationship with Dr. L. David Mech, the world's foremost wolf biologist, allows the IWC to bridge the scientific field with the general public and make contemporary wolf research available to students around the state, nation and world. IWC's information systems have become known as a primary source for accurate, unbiased information on the wolf. This program enhances our existing program of wolf information provided through our magazine, flyers, programs and other resources.

VIII. Budget context: IWC has used its resources to acquire significant amounts of information resources on the wolf. It has done this through its operating budgets as well as through grants which have allowed IWC to invest in special resources and equipment to expand its information/ education services. For example IWC continues to publish its quarterly magazine, produce educational supplements on special wolf topics and make available audio-visual materials as part of its basic operational functions. IWC's budgets are funded through earned income, memberships, donations and program revenues. IWC's support for this LCMR project has come in the form of direct funding, in-kind staff allocations to specific components of the project, in overall project management and in covering all overhead costs. In the two years prior to June 30, 1995, IWC has spent approximately \$60K in each of the 2 years. Budgets for 1995 and 1996 were approximately \$70K and 75K annually for activities in this project.

IX. Dissemination: This program was designed to make resources on the wolf readily available to the world. Dissemination was key for the LCMR grant. Our goal was to establish IWC as the clearinghouse for wolf information and education materials in cooperation with SEEK. Objective F of this workprogram was established to ensure the information resource is widely known.

X. Time: This program will continue under the auspices of the IWC through its operational budgets.

XI. Cooperation: The following cooperators were key resources in the support of this program:

Vermilion Community College-educational curriculum on the adult level
National Biological Survey-field research/information resources/consultation
U.S. Fish and Wildlife Service-information resources and consultation
U.S. Forest Service-field research data, consultation, use of facilities
MN Dept. of Natural Resources-information resources
T.I.E.S.-Liaison with MN schools/Internet, consultation services
MN Education Departments, Environmental Education Advisory Board and SEEK

XII. Reporting Requirements: Semiannual six-month workprogram update reports will be submitted not later than January 1, 1996, July 1, 1996, January 1, 1997 and a final six-month workprogram update and final report by June 30, 1997.

XIII. Required Attachments:

- 1. Qualifications**
- 2. Project Staffing Summary**

XIII.

1. Qualifications: Project Manager-Walter M. Medwid

Not for Profit Education/Management Experience

Executive Director-International Wolf Center, Ely and Minneapolis, MN
Executive Director (former)-Adirondack Mountain Club, Lake George, NY; a conservation, education and recreation not-for-profit focused on the largest park in the contiguous U.S.
Director-New Canaan Nature Center, New Canaan, CT; a community-based environmental education facility
Biology Instructor-High school instructor, Norwalk, CT

Education

M.S. Biology; Southern Connecticut State University, New Haven, CT
B.A. Biology; University of Bridgeport, Bridgeport, CT
Add'l graduate work in Ecology/Omithology; University of Virginia

2. Qualifications: Assistant Project Manager-Timothy J. Cook

Not for Profit Education/Management Experience

Assistant Director/Interim Information Resource Coordinator-International Wolf Center, Ely, MN
Executive Director-River Bend Nature Center, Faribault, MN
Interpretive Naturalist-River Bend Nature Center, Faribault, MN
Seasonal Naturalist- Dodge Nature Center, West St. Paul, MN

Education

Nonprofit Administration-Metropolitan State University, Mpls/St. Paul, MN
University of Minnesota-College of Liberal Arts, Mpls/St. Paul, MN
Inver Hills Community College, Inver Grove Heights, MN
Bethel College, Arden Hills, MN

* Financial information as of 6/30/97 - final reimbursement request.