Environment and Natural Resources Trust Fund 2011-2012 Request for Proposals (RFP)

LCCMR ID: 179-G Project Title: Minnesota Junior Master Naturalist: An After-School Program
Category: G. Environmental Education
Total Project Budget: \$ \$365,459
Proposed Project Time Period for the Funding Requested: 3 yrs, July 2011 - June 2014
Other Non-State Funds: \$ 0
Summary:
Pairs trained adult Master Naturalist Volunteers with staff in after-school programs throughout Minnesota to offer outdoor, science-based, activities for youth to learn about the ecology of their schoolyards and neighborhoods.
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Sponsoring Organization: U of MN
Address: 1980 Folwell Ave # 200
Saint Paul MN 55108
Telephone Number: 651-644-1591
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Web Address minnesotamasternaturalist.org
Location
Region: Statewide
Ecological Section: Statewide
County Name: Statewide
City / Township:
Funding Priorities Multiple Benefits Outcomes Knowledge Base
Extent of Impact Innovation Scientific/Tech Basis Urgency
Capacity Readiness Leverage Employment TOTAL%

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PROJECT TITLE: Minnesota Junior Master Naturalist: An After-School Program

I. PROJECT STATEMENT

Minnesota Junior Master Naturalist will pair current adult Minnesota Master Naturalist Volunteers with staff in existing after-school programs to offer fun, outdoor, science-based educational opportunities for 4th and 5th graders to learn about the ecology and natural history of their schoolyard, neighborhood, nearby natural areas, and the entire state.

This program will address the problem that children are spending increasingly less time outside and, consequently, know less about their environment and world. It responds to the needs identified in the 2009 Outdoor Education Legislative Report to increase outdoor learning opportunities for children and to train educators who are often uncomfortable taking youth outside for lessons. It also addresses outcomes outlined in the Minnesota Greenprint to provide increased environmental education opportunities for youth both at school and during play.

The goals of this project are 1) to create a series of outdoor, sequential, science-based lessons with targeted learning outcomes that address the new MN K-12 Science Standards, 2) to prepare adult leaders to deliver these lessons in after-school programs for 4th and 5th graders with the aim of improving their performance on the 5th grade Science MCA exams and 3) to establish a permanent program to offer these lessons throughout Minnesota.

Other state and national programs focus on outdoor exploration, play, and reflection with an emphasis on natural areas. This program emphasizes targeted science learning outcomes and use of the schoolyard as a means of investigating the environment. The curriculum will be developed and tested in schools with large minority enrollments. MN Master Naturalist staff will then train, place, and support volunteers offering the program in at least 50 schools statewide.

II. DESCRIPTION OF PROJECT ACTIVITIES

Activity 1: Develop and Pilot-test Fall, Winter & Spring Curricula Budget: \$ 100,355 We will develop and pilot-test a series of weekly lessons on the physical changes in the seasons and their effects on plant and animal life. These lessons will be divided into three units linked to *The Minnesota Weatherguide*, a natural history calendar. Each seasonal unit will include supplies for the volunteer to use while implementing the lessons. The pilot-testing phase will be a collaborative effort between Master Naturalist staff, students, volunteer instructors, and after-school staff to develop lessons that are appropriate for teaching diverse audiences in schoolyard settings. We will then evaluate and revise the units.

Outcome	Completion Date
1. Develop and pilot-test Fall, Winter, & Spring curricula at 4 sites	May 2012
2. Evaluate and revise curricula	August 2012

Activity 2: Train Master Naturalist Volunteers & Field-test Curricula Budget: \$ 126,345 While developing sequenced curricula is vital, it is also important to develop and evaluate training materials for the volunteer instructors i.e. field-testing. Field-testing will be done the second year to insure that the developed materials and adult training materials are appropriate for widespread implementation. In Yr. 2, we will train 16 – 24 additional Master Naturalist Volunteers who want to work with the Jr. Program. They will then test the materials at eight additional sites (for a total of 12) during the school year followed by evaluation and revision of both the lessons and training materials. Additional sites will increase the geographic coverage.

Outcome	Completion Date
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Develop and implement training for adult Master Naturalist Volunteers	August 2012
2. Field-test Fall, Winter and Spring Curricula at 12 sites	May 2013
3. Evaluate and finalize curricula and training materials	August 2014

Activity 3: Expand Program to 50 Sites Statewide

Budget: \$ 138,760 In the final year of the grant, we will train at least 50 additional Master Naturalist Volunteers and offer Junior Master Naturalist in at least 50 after-school programs statewide.

Outcome	Completion Date
Offer training for at least 50 Adult Master Naturalist Volunteers	August 2013
2. Offer Jr. Master Naturalist Programs in at least 50 schools statewide	June 2014

III. PROJECT STRATEGY

A. Project Team/Partners

The main partners in this project are Univ. of MN Extension and the MN Dept. of Natural Resources, which jointly run the MN Master Naturalist Program. Rob Blair (Assoc. Professor; Fisheries, Wildlife and Conservation Biology; UMN-St. Paul), Amy Rager (UMN Extension -Morris), Nate Meyer (UMN Extension - Cloquet), Andrea Strauss (UMN Extension -Rochester), John Loegering (Assoc. Professor – UMN Crookston), Karen Oberhauser (Assoc. Professor, UMN St. Paul), and Dawn Flinn (Education Coordinator - MN DNR) have developed and manage the growing MN Master Naturalist Program, which has more than 500 volunteers who have taken a 40-hour course in Minnesota's natural history. These volunteers offered more than 37,000 hours of volunteer service in 2009 in the areas of conservation, educational outreach, and citizen science. Each Master Naturalist staff members will devote at least two weeks of their time to this new project in addition to staff hired with the LCCMR funds.

We have commitments from John A. Johnson Elementary, Saint Paul; Lake Harriet Upper School, Minneapolis; Cardinal Place, Willmar; and Parks and Recreation, Saint Paul to help develop and pilot-test the program. These partners were selected because they have strong after-school programs with a diverse student enrollment (African American, Native American, Asian and/or Latino) and they wish to increase the science content of their after-school offerings. We also have commitments from Master Naturalist volunteers who are eager to join this effort. We expect to field-test the revised materials at eight additional sites in the state, with a specific focus on both urban and rural schools with high proportions of diverse students.

Rob Blair at the University of Minnesota will manage funding. The MN DNR will house a new full-time Jr. Master Naturalist Coordinator in the Div. of Parks and Trails under the guidance of Dawn Flinn. Salaries will be paid with LCCMR funds through a subaward through UMN Extension, which is the established fiscal authority for the Minnesota Master Naturalist program.

B. Timeline Requirements

Each activity above corresponds to a year of the program, which begins in July (Figure 1).

C. Long-Term Strategy and Future Funding Needs

The major initial investment in this program will be for the development and testing of the curricula. After the grant ends, the longevity of the program will depend on hiring a permanent coordinator and finding funds to provide supplies to the Master Naturalist Volunteers and afterschool programs. Currently, the Master Naturalist program is growing a long-term donor base, which may be sufficient to provide for these needs. Alternatively, we may need to seek other grants to guarantee the baseline funding.

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2011-2012 Detailed Project Budget

IV. TOTAL TRUST FUND REQUEST BUDGET for 3 years

Equipment/Tools/Supplies: \$39,600 for seasonal supplies for each school/program participating in Junior Master Naturalist, three seasons per year (Fall, Winter, Spring), \$200 of supplies per school per season; 4 schools Yr 1, 12 schools Yr 2, 50 schools Yr 3. \$750 for office supplies including photocopying, \$250 per year. \$40,350 Travel: (See DNR subaward below) Additional Budget Items: \$24,000 Stipends for staff teachers involved in pilot- and field testing. (\$500 per season, per staff teacher involved); \$6,000 Year 1, \$18,000 Year 2. \$3,500 for workshops to train volunteers including room rental, printing of training materials, teaching supplies, recognition pins, name badges, and background checks. Estimate based on \$50 per volunteer. Subaward to DNR \$74,580 salary for Dawn Flinn, 25% time for three years, 37.2% fringe benefits, to adapt and develop curricula and to guide staff, Flinn is a classified staff who receives 25% of her salary from the NSF Master Naturalist grant which ends 12-31-10; \$174,570 salary for Junior Master Naturalist Coordinator for three years, 100% time, 37.2% fringe benefits to implement curricula, conduct training, and conduct evaluation. \$3,500 for travel for staff to implement and evaluate programs; includes 1000 miles travel in Year 1, 2000 miles in Year 2, 4000 miles in Year 3 (when program goes statewide). \$11,000 for graphic design and printing including promotional materials (brochures, banners, pins, badges) in Year 1, seasonal curricula for students Year 2, training materials for instructors Year 3.	17. TOTAL TROOT FORD REGOLOT BODGET for 5 years		
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V. OTHER FUNDS

SOURCE OF FUNDS	<u>AMOUNT</u>	<u>Status</u>
Funding History: Minnesota Master Naturalist program development funded by the		_
National Science Foundation.	\$ 1,712,504	

MINNESOTA

Junior Master Naturalist Development Timeline



Year 1

Year 2

Year 3

Statewide

Implementation

Development and Pilot-Testing

Field-Testing

lessons Volunteers Youth implement participate and provide and provide feedback feedback weekly weekly

Staff drafts 24

Staff evaluate, revise lessons. Develop training for volunteers



Staff develops and tests training for volunteers



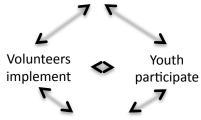
Volunteers implement

Youth participate

Staff evaluate, finalize both lessons and training model for volunteers based on evaluation



Staff train volunteers for 50 sites statewide



Staff secure long-term funding for teaching supplies and volunteer training



Sustained Junior Master Naturalist **Program**



4 sites in Twin Cities and Willmar



12 sites near regional Extension staff



50 sites statewide





Figure 1

Project Manager Qualifications:

Dr. Rob Blair is an Associate Professor of Fisheries, Wildlife, and Conservation Biology in the College of Food, Agriculture and Natural Resource Science at the University of Minnesota. He initiated the Minnesota Master Naturalist program in 2005 with a grant from the National Science Foundation Informal Science Education Program. Currently, he coordinates efforts of four Extension educators working on the project and two administrative assistants. Amy Rager, Extension Educator at Morris, is the Project Director. She handles the everyday functioning of the program and direct communication with instructors and volunteers. Blair has overseen the development of all curriculum material, including writing the majority of the main text. He manages the budgets for the program. He also coordinates efforts with the program's main partner – MN DNR – and Dawn Flinn, Education Coordinator for the DNR.

His role with Junior Master Naturalist program will be similar. Dawn Flinn, Education Coordinator for the DNR, will be the project director for the Junior Master Naturalist Program. She will hire and guide a full-time person to handle the day-to-day functioning of the program and direct contact with instructors and volunteers. Blair will oversee all curriculum development, budgets, training and evaluation. Coordination with partners will be the responsibility of both Blair and Flinn.

Junior Master Naturalist will be an expansion of the Minnesota Master Naturalist program to grade school children. Its audience will be children in existing after-school programs and the adult Minnesota Master Naturalist Volunteers who will work with them.

Organization Description:

University of Minnesota Extension staff listen to and collaborate with individuals, organizations and communities in order to discover, develop and deliver research-based education and information to address issues that are important to Minnesota - including conservation of Minnesota's natural resources.

The Minnesota Master Naturalist Program is a model collaboration between University of Minnesota Extension and the Minnesota Department of Natural Resources. It operates with a Memorandum of Understanding between the two agencies with each responsible for different portions of the program. University of Minnesota Extension is the fiscal agent for the project.

Minnesota Master Naturalist is a volunteer program that teaches adults about Minnesota's natural resources, empowers them to educate others, and provides them opportunities to do conservation projects. The mission of the Minnesota Master Naturalist Program is to promote awareness, understanding, and stewardship of Minnesota's natural environment by developing a corps of well-informed citizens dedicated to conservation education and service within their communities.

The Minnesota Master Naturalist program has been resoundingly successful. Since the Fall of 2005, more than 100 professional naturalists have become trained Master Naturalist Instructors and they have taught classes that have graduated more than 500 volunteers. In 2009 alone, these volunteers provided 5,956 hours of work on stewardship projects, 7,908 hours on interpretive activities that reached more than a million people, 4,626 hours on citizen-science monitoring, and 11,622 hours of program support at various nature centers for a total of 30,013 hours of volunteer effort. According to IndependentSector.org, this volunteer time is valued at \$20.25 per hour for a total contribution of \$607,763 to the state's economy. From 2005 through 2009, the volunteers have donated over 81,000 hours worth more than \$1,721,250.