



Environment and Natural Resources Trust Fund (ENRTF)

M.L. 2015 Work Plan

Date of Report: October 15, 2014

Date of Next Status Update Report: January 1, 2016

Date of Work Plan Approval:

Project Completion Date: June 30, 2018

Does this submission include an amendment request? No

PROJECT TITLE: Connecting Students with Watersheds through Hands-on Learning

Project Manager: John P. Lenczewski

Organization: Minnesota Trout Unlimited

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Location: Statewide, with initial emphasis in Twin Cities metropolitan area and southeast MN.

Total ENRTF Project Budget:

ENRTF Appropriation: \$400,000

Amount Spent: \$0

Balance: \$400,000

Legal Citation: M.L. 2015, Chp. 76, Sec. 2, Subd. 05b

Appropriation Language:

I. PROJECT TITLE: Connecting Students with Watersheds through Hands-on Learning

II. PROJECT STATEMENT:

Minnesota Trout Unlimited will get students outdoors by providing hands-on learning experiences which connect students with water, aquatic life, groundwater systems, and watersheds. Students will learn their role in healthy, sustainable, freshwater habitats and develop a sense of stewardship which they can carry forward into adulthood. Students will also be exposed to outdoor recreation to encourage lifelong, tangible connections to aquatic ecosystems. Our goal is to get an average of approximately 500 students per year outdoors for hands-on learning experiences.

Youth are increasingly becoming disconnected from the natural environment we live in. This lack of connection follows students into adulthood and impacts their ability to make well informed decisions about their environment. In addition, most schools have some environmental education programming and one-time outings, but fail to adequately reinforce ongoing lessons through real-life applications outdoors. As a tangible resource, we will utilize the Trout in the Classroom (“TIC”) curriculum, which places aquariums in classrooms so students can actively follow the development of trout from egg to juvenile. During this process, monitoring and scientific discovery takes place. This in-class exploration will be used as a spring board for fieldtrips to streams and as a focal point for reinforcing learning about watersheds, water quality and ecology. Lessons on groundwater and its importance will be central. No new curriculum is being developed. The TIC curriculum is a proven national curriculum and only minor Minnesota specific adaptations will be made to meet state standards and STEM initiatives. Additional resources from Project WET and Project Wild Aquatic will also be used in programming.

The goal is to improve students’ science skills and knowledge concerning water quality, groundwater issues, watersheds, native aquatic life and healthy, sustainable, freshwater habitats. Students will engage in interactive science-based natural resource education through the use of technology and applied sciences as they gather first-hand knowledge of healthy ecosystems. Students’ knowledge of a subject increases when they use critical thinking skills first hand. The TIC curriculum and complimentary lessons will encourage students to use these higher level thinking skills to foster deeper knowledge in multiple areas including: science, math, language arts and art.

This year-long program combines habitat site visits, field studies and classroom visits, allowing students to apply the principles learned outdoors with realistic applications. Incorporating technology using social media i.e. Facebook, YouTube, Twitter and creating blogs/classroom websites are an effective way to reach more students and share information on projects. Learning will come full circle as students are given opportunities to explore outdoor recreation, conservation work and careers relating to fresh water habitats as they share their experiences with others. Geographic focus initially will be on schools in southeast Minnesota and the south and east Metro area, with expansions to northeast and north central Minnesota in subsequent years.

III. OVERALL PROJECT STATUS UPDATES:

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Overall Project Outcomes and Results:

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Select participating schools and set up Trout in the Classroom equipment:

The selection process for first year participating schools will take place in late summer and September. We will organize a group of educators to develop selection criteria and help select participating schools. The schools selected will take part in a training day in September. Each teacher will be provided with a resource manual/guide book which the project coordinator will create and assemble. Partners will be invited to take part in the training. The date will be set in early fall prior to the first field trips with the students. Instruction on equipment set-up will also be provided during the training. Ordering of classroom equipment will occur upon written agreement of the participating schools. MOU's will be signed with participating schools at the start of each school year.

Summary Budget Information for Activity 1:

ENRTF Budget: \$ 92,400
Amount Spent: \$ 0
Balance: \$ 92,400

Outcome	Completion Date
1. Sign agreements with 9 schools to participate in program during the 2015-2016 school year.	July to September 2015
2. Organize equipment and resources, meet with partners, train participating educators, assemble Trout in the Classroom ("TIC") guide book for educators adapting to meet state learning standards and STEM initiatives, assist with set up of TIC equipment in 9 schools.	July to October 2015
3. Sign agreements with 14 schools to participate in program during the 2016-2017 school year.	July to September 2016
4. Organize equipment and resources, meet with partners, train participating educators, assemble Trout in the Classroom ("TIC") guide book for educators adapting to meet state learning standards and STEM initiatives, assist with set up of TIC equipment in 14 schools.	July to October 2016
5. Provide assistance to schools in outstate areas as needed, utilizing consultant(s).	Sept 2016 to June 2017
6. Sign agreements with 18 schools to participate in program during the 2016-2017 school year.	July to September 2017
7. Organize equipment and resources, meet with partners, train participating educators, assemble Trout in the Classroom ("TIC") guide book for educators adapting to meet state learning standards and STEM initiatives, assist with set up of TIC equipment in 18 schools.	July to October 2017
8. Provide assistance to schools in outstate areas as needed, utilizing consultant(s).	Sept 2017 to June 2018

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

ACTIVITY 2: Field Experiences-Habitat Tours/Release Days:

Project coordinator will create, organize and coordinate trips & activities during the field experiences, including lining up on-site speakers. During these visits, students will learn about healthy aquatic habitats and clean water through hands on surveys of macro invertebrates, dissolved oxygen levels, temperature, and turbidity levels. Students will hear talks from hydrologists and other professionals about the effects of groundwater contamination upon aquatic life.

Planning will take place with partners prior to each school year regarding appropriate field trip sites and fish release locations. Summer survey/reconnaissance work will be done to assess the sites, which may include habitat improvement areas and groundwater recharge and release areas. Fish release areas will be coordinated with the Minnesota DNR. Opportunities for hands on conservation work may be offered depending on the age of students.

Summary Budget Information for Activity 2:

ENRTF Budget: \$ 124,728
Amount Spent: \$ 0
Balance: \$ 124,728

Outcome	Completion Date
1. Fall trip: macroinvertebrate and stream surveys using technology; groundwater site visit where possible.	Sept - Nov 2015
2. Spring release of trout, outdoor recreation and hands-on activities.	May 2016
3. Fall trip: macroinvertebrate and stream surveys using technology; groundwater site visit where possible.	Sept - Nov 2016
4. Spring release of trout, outdoor recreation and hands-on activities.	May 2017
5. Fall trip: macroinvertebrate and stream surveys using technology; groundwater site visit where possible.	Sept - Nov 2017
6. Spring release of trout, outdoor recreation and hands-on activities.	May 2018

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

ACTIVITY 3: Classroom visits/programming:

Classroom visits will include follow-up from fall field trips and programming focused on ground water and fresh water ecosystems using existing curriculum materials, including from TIC, Project WET and Project WILD. The coordinator will work with teachers to present a series of materials relevant to the teacher’s curriculum and standards. STEM Initiatives will be included in the instruction. In addition to presenting lessons, the coordinator assist teachers and students with their living laboratory in the classroom and go over instructions on how to monitor the fish in their tanks. Eggs will be brought to the classroom during the visit and additional visits may

be required depending upon the teacher and classroom. Topics that the coordinator will teach will include watersheds, groundwater, invasive species and pollution. These lessons will reinforce the connection between healthy habitats and healthy aquatic wildlife.

Summary Budget Information for Activity 3:

ENRTF Budget: \$ 58,450
Amount Spent: \$ 0
Balance: \$ 58,450

Outcome	Completion Date
1. Trout eggs brought to 9 or more classrooms for rearing.	TBD: Nov to Dec 2015
2. Winter programming covering groundwater, watersheds, invasive species, water contaminants and habitat lessons. (Use of existing materials gathered and assembled as a unit for the teachers.)	Jan to Mar 2016
3. Trout eggs brought to 14 or more classrooms for rearing.	TBD: Nov to Dec 2016
4. Winter programming covering groundwater, watersheds, invasive species, water contaminants and habitat lessons. (Use of existing materials gathered and assembled as a unit for the teachers.)	Jan to Mar 2017
5. Trout eggs brought to 18 or more classrooms for rearing.	TBD: Nov to Dec 2017
6. Winter programming covering groundwater, watersheds, invasive species, water contaminants and habitat lessons. (Use of existing materials gathered and assembled as a unit for the teachers.)	Jan to Mar 2018

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

ACTIVITY 4: Annual Trout in the Classroom (“TIC”) Summit:

Classes will travel to central location(s) to showcase their projects, meet other students, participate in outdoor skills, and learn about water resources careers from professionals (average of approximately 500 youth annually). Youth will meet and share ideas while networking about the learning going on in their classrooms (technology and social media will be a part of this). Natural resource professionals will host presentations highlighting their work and what it takes to get involved with their profession. Other speakers will engage students in recreational opportunities focused around the resource. Minnesota TU representatives and partners will be a part of the summit(s). The summit will be held each of the first three years of this program and we will be pursuing other funding to continue this event and the program in future years.

Summary Budget Information for Activity 4:

ENRTF Budget: \$ 79,406
Amount Spent: \$ 0
Balance: \$ 79,406

Outcome	Completion Date
1. Project coordinator lines up speakers, recreation professionals, media coverage and partners/volunteers.	Jan to Mar 2016
2. Student share/showcase their experiences at multi-school summit or regional summits (approximately 350 youth).	April 2016
3. Project coordinator lines up speakers, recreation professionals, media coverage and partners/volunteers.	Jan to Mar 2017
4. Student share/showcase their experiences at multi-school summit or regional summits (approximately 500 youth).	April 2017
5. Project coordinator lines up speakers, recreation professionals, media coverage and partners/volunteers.	Jan to Mar 2018
6. Student share/showcase their experiences at multi-school summit or regional summits (approximately 650 youth).	April 2018

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

ACTIVITY 5: After school & summer education/outreach and conservation opportunities:

Project coordinator, MNTU volunteers and other partners will offer a series of fishing clinics, camps, rod building classes, geo-caching, nature photography and opportunities for students and families to be engaged with hands-on conservation events as volunteers. The coordinator will work to expand an existing Trout Unlimited outdoor education camp (called T.U.N.E.). The coordinator will also work with the Minnesota DNR to create a GPS/Water challenge which will engage youth and their families in a series of outdoor activities relating to water recreation. The goal is to get youth and their families engaging in the outdoors throughout the summer months.

Summary Budget Information for Activity 5:

ENRTF Budget: \$ 45,016
Amount Spent: \$ 0
Balance: \$ 45,016

Outcome	Completion Date
1. Create calendar of events/opportunities with MNTU volunteers and partners; engage other classes/schools using social media and YouTube	May to June 2016
2. Conduct summer education/outreach activities; assist with summer TUNE camp	June to August 2016
3. Create calendar of events/opportunities with MNTU volunteers and partners; engage other classes/schools using social media and YouTube	May to June 2017
4. Conduct summer education/outreach activities; assist with summer TUNE camp	June to August 2017
5. Create calendar of events/opportunities with MNTU volunteers and partners; engage other classes/schools using social media and YouTube	May to June 2018
6. Conduct summer education/outreach activities; assist with summer TUNE camp	June 2018

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

V. DISSEMINATION:

Description: We will conduct summer education/outreach events for students and their families to participate, including students whose classrooms did not have an opportunity to participate in years one, two and three. We will expand the impact of the program by engaging other classes and schools through the use of social media, YouTube, and website capacities. The goal is to reach as many students and teachers as possible and to share the experiences and knowledge gained from the program. By using the Trout Unlimited websites (www.mntu.org and www.twincitiestu.org) as our starting point, we will work with schools to create links to their school websites or create a blog/Facebook page for each class involved. A youth column in Minnesota Trout Unlimited's quarterly newspaper will be added to share the experiences with both members and nonmembers around the state. The student summits will be great opportunities for students to share and network with other classes engaged in the similar experiences. We hope to set a framework for other states around the region and country, as we offer a unique example of education outreach at its best. We will pursue other grants and donations to grow the program and reach additional schools and communities around the state.

Project Status as of January 15, 2016:

Project Status as of July 15, 2016:

Project Status as of January 15, 2017:

Project Status as of July 15, 2017:

Project Status as of January 15, 2018:

Final Report Summary:

VI. PROJECT BUDGET SUMMARY:

A. ENRTF Budget Overview:

Budget Category	\$ Amount	Overview Explanation
Personnel:	\$216,216	Full time education coordinator (average of approximately \$61,440 annually; 78.1 % salary/21.9% fringe; total for 3 years = \$184,320); part time project manager (average of approximately \$6,552 annually); part time assistance by director of youth education (average of approximately \$4,080 annually)
Professional/Technical/Service Contracts:	\$27,300	Contracted part time educators in distant outstate areas (two each in years 2 and 3 at average of approximately \$2,500/year); graphic

		designer; required disease testing.
Equipment/Tools/Supplies:	\$61,125	Classroom aquarium equipment (18 classroom sets at approximately \$2,000 each = \$36,000); essential equipment for the project coordinator (\$3,150); set of classroom technology tools for fieldwork and fieldtrip equipment (\$12,875); trailer with shelving for storage and transport of equipment to schools and field sites (\$3,100); materials for teacher manuals and lesson handouts (\$2,000/year = \$6,000). Equipment will continue to be used by the schools and/or Trout Unlimited for similar educational activities after the 3 year period ends.
Printing:	\$3,000	Printing/copying for teacher manuals and class worksheets, handouts, summit banners, etc.
Travel Expenses in MN:	\$19,980	Travel expenses of project coordinator to and from schools, field sites, DNR facilities, etc.; limited travel of project manager to key meetings. Expenses will be paid per Commissioners Plan.
Other:	\$72,379	Bus transportation for classrooms to and from outdoor field days and spring summit. (estimated at approximately \$700/trip; 3 trips/year/classroom = \$2,100/year/classroom. Yr 1 - \$2,100 x 9 = \$18,900 Yr 2 - \$2,100 x 14 = \$29,400 Yr 3 - \$2,100 x 18 = \$37,800 Total = approximately \$86,100, less cost sharing by schools of approximately \$335/classroom).
TOTAL ENRTF BUDGET:		\$400,000

Explanation of Use of Classified Staff: N/A

Explanation of Capital Expenditures Greater Than \$5,000: N/A

Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: 3.4

Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF

Appropriation: *[if project management provided via contract, not staff, then 0.3 FTE here and the preceding number would be reduced from 3.4 to 3.1 FTE]*

B. Other Funds:

Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds
Non-state			
Participating schools	\$13,721	\$0	Bus transportation
State			
	\$	\$	
TOTAL OTHER FUNDS:	\$	\$	

VII. PROJECT STRATEGY:

A. Project Partners:

1. Minnesota Trout Unlimited and its chapters will receive funding and contribute cash and in-kind assistance.
2. Schools and school districts will provide extensive in-kind assistance and be required to provide some cost sharing to invest the schools in activities, and stretch the project budget to enable us to include more schools.
3. MNDNR (Non-game Education, Fisheries, and Parks & Trails) will provide extensive in-kind support.
4. Minnesota Groundwater Association will provide in-kind support.

B. Project Impact and Long-term Strategy:

We will enhance achievement in grades 5-12 by combining outdoor “classrooms” with technology through STEM activities so students may master state standards across a spectrum of subjects, develop skills necessary for making informed decisions about the water resources, create connections to the natural world, and think critically about their personal roles in the environment. It is hard to protect something which citizens do not know and care about. This program will teach the next generation to appreciate the watersheds in which they live, become active in the outdoors and become stewards of land and water. Recreational activities are included to encourage connections to the outdoors beyond the classroom. Afterschool and summer programs for youth and families will cement lifelong involvement in outdoor recreation and conservation. YouTube and other media will extend the reach and impact of the programs. Instilling a sense of stewardship in tomorrow’s leaders, which is the program’s ultimate goal, is vital to the long term health and protection of Minnesota’s natural resources. This program should reach approximately 6,300 students and their communities through classroom outreach and social media.

This three year effort will build an educational and organizational support base among Minnesota youths for understanding and supporting natural resource stewardship and management of our cold-water streams and their fisheries resources. Activities in this initial phase are intended to garner additional support and result in long term programmatic and financial support beyond the initial funding received from the Environment and Natural Resources Trust Fund.

C. Funding History:

Funding Source and Use of Funds	Funding Timeframe	\$ Amount
Local TU chapters have organized and assisted with running the proven Trout In the Classroom projects in several MN schools, providing approximately \$6,000 to \$8,000 for equipment and disease testing.	2009 to 2014	\$6,000 or more

VIII. FEE TITLE ACQUISITION/CONSERVATION EASEMENT/RESTORATION REQUIREMENTS: N/A

IX. VISUAL COMPONENT or MAP(S): See attached photograph.

X. RESEARCH ADDENDUM: N/A

XI. REPORTING REQUIREMENTS:

Periodic work plan status update reports will be submitted no later than January 15, 2016; July 15, 2016; January 15, 2017; July 15, 2017, and January 15, 2018. A final report and associated products will be submitted between June 30, 2018 and August 15, 2018.



Project Title: Connecting Students with Watersheds through Hands-on Learning

Legal Citation: Fill in your project's legal citation from the appropriation language - this will occur after the 2015 legislative session.

Project Manager: John Lenczewski

Organization: Minnesota Trout Unlimited

M.L. 2015 ENRTF Appropriation: \$ 400,000

Project Length and Completion Date: Three years, June 30, 2018

Date of Report: Fill in the date of report submission (this will be updated for each status update report)

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Activity 1 Budget	Amount Spent	Activity 1 Balance	Activity 2 Budget	Amount Spent	Activity 2 Balance	Activity 3 Budget	Amount Spent	Activity 3 Balance	Activity 4 Budget	Amount Spent	Activity 4 Balance	Activity 5 Budget	Amount Spent	Activity 5 Balance	TOTAL BUDGET	TOTAL BALANCE
BUDGET ITEM	Select participating schools and set up TIC equipment		Field Experiences-Habitat Tours/Release	Classroom visits/programming		Annual TIC Summit		After school & summer education/outreach									
Personnel (Wages and Benefits)	\$45,000	\$0	\$45,000	\$45,000	\$0	\$45,000	\$45,000	\$0	\$45,000	\$45,000	\$0	\$45,000	\$36,216	\$0	\$36,216	\$216,216	\$216,216
Project coordinator -100% fte; 78.1 % salary/21.9% fringe*; 36 months; (average of approximately \$61,440 annually) Subtotal = approximately \$184,320 [administrative costs to TU of employee is being contributed by TU as in-kind contribution] [*total compensation will not change, but it is possible that the ratio of salary to fringe might increase depending upon the employee's circumstances and preferences]		\$0			\$0			\$0			\$0			\$0			
Program manager – 8% fte; 78.1 % salary/21.9% fringe; 36 months; (average of approximately \$6,552 annually); [project manager may be an independent contractor and not an employee, and will be paid an hourly fee equivalent to an employee's total compensation] Subtotal = approximately \$19,656		\$0			\$0			\$0			\$0			\$0			
Director of youth education– 5% fte; 78.1 % salary/21.9% fringe; 36 months; (average of approximately \$4,080 annually); Subtotal = approximately \$12,240		\$0			\$0			\$0			\$0			\$0			
Professional/Technical/Service Contracts																\$27,300	\$27,300
Outstate educator/consultants (if needed) to assist in classroom and fieldtrips (yrs. 2 & 3): Yr 2 = 2 people (PT) estimated at approximately \$2,500 each per school year = \$5,000 Yr 3 = 2 people (PT) estimated at approximately \$2,500 each per school year = \$5,000 Subtotal = approximately \$10,000	\$2,500	\$0	\$2,500	\$2,500	\$0	\$2,500	\$2,500	\$0	\$2,500	\$2,500	\$0	\$2,500	\$0	\$0	\$0	\$10,000	\$10,000
Graphic designer (total of 3 years) to assist with development of program materials, including learning booklet teachers are getting, summit banner, etc. Subtotal = approximately \$5,000	\$2,000	\$0	\$2,000	\$500	\$0	\$500	\$1,000	\$0	\$1,000	\$1,000	\$0	\$1,000	\$500	\$0	\$500	\$5,000	\$5,000
Outside entity (public or private) to conduct fish egg and fish disease testing estimated at approximately \$300/class/year: Yr 1 - \$300 x 9 = \$2,700 Yr 2 - \$300 x 14 = \$4,200 Yr 3 - \$300 x 18 = \$5,400 Subtotal = approximately \$12,300	\$0	\$0	\$0	\$12,300	\$0	\$12,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,300	\$12,300
Equipment/Tools/Supplies																\$61,125	\$61,125
Comprehensive TIC aquarium equipment (3+ years) for 18 classrooms, estimated at approximately \$2,000 per classroom. Each classroom aquarium set up includes items such as: 18 classrooms at approximately \$2,000 each Subtotal = approximately \$36,000	\$36,000	\$0	\$36,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36,000	\$36,000
One set of essential equipment for the project coordinator to use for classroom presentations and on fieldtrips: 1 laptop estimated at approximately \$2,000 1 projector estimated at approximately \$650 1 ipad estimated at approximately \$500 Subtotal = approximately \$3,150	\$500	\$0	\$500	\$500	\$0	\$500	\$1,150	\$0	\$1,150	\$500	\$0	\$500	\$500	\$0	\$500	\$3,150	\$3,150
GPS Units – one Classroom set of 20 units estimated at approximately \$300 per unit Subtotal = approximately \$6,000	\$0	\$0	\$0	\$1,500	\$0	\$1,500	\$1,500	\$0	\$1,500	\$1,500		\$1,500	\$1,500		\$1,500	\$6,000	\$6,000

Underwater Cameras w/memory cards – one Classroom set of 20 camera/card setups estimated at approximately \$300 each. Subtotal = approximately \$6,000	\$0	\$0	\$0	\$6,000	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000	\$6,000	
Protective Pelican cases for GPS and camera units Estimated at approximately \$275 for all.	\$0	\$0	\$0	\$275	\$0	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275	\$275	
Field Aquarians for Macroinvertebrate studies - 15 field aquariums estimated at approximately \$40 each Subtotal = approximately \$600	\$0	\$0	\$0	\$600	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600	\$600	
One enclosed trailer for equipment storage and transportation to classrooms & field sites, including shelving. Estimated at approximately \$3,100	\$700	\$0	\$700	\$600	\$0	\$600	\$600	\$0	\$600	\$600	\$0	\$600	\$600	\$0	\$600	\$3,100	\$3,100
Materials for teacher manuals, lesson materials, posters, etc. Estimated to be approximately \$2,000 per year x 3 years. Subtotal = approximately \$6,000	\$1,200	\$0	\$1,200	\$1,200	\$0	\$1,200	\$1,200	\$0	\$1,200	\$1,200	\$0	\$1,200	\$1,200	\$0	\$1,200	\$6,000	\$6,000
Printing																	
Printing/copying for teacher manuals and class worksheets, handouts, summit banners, etc. Estimated to be approximately \$1,000 per year x 3 years. Subtotal = approximately \$3,000	\$0	\$0	\$0	\$1,000	\$0	\$1,000	\$1,000	\$0	\$1,000	\$1,000	\$0	\$1,000	\$0	\$0	\$0	\$3,000	\$3,000
Travel expenses in Minnesota																	
Travel expenses of project coordinator to and from schools, field sites, DNR facilities, etc. Limited travel of project manager to key meetings with coordinator, schools, events, & DNR. Mileage expense estimated at IRS rate of 0.56/mile Yr1 – 9,000 miles at 0.56 = \$5,040 Yr2 – 11,000 miles at 0.56 = \$6,160 Yr1 – 13,000 miles at 0.56 = \$7,280 Subtotal = approximately \$18,480 Meal expenses of coordinator when visiting more distant schools, etc. Estimated at \$500/year x 3 years. Subtotal = approximately \$1,500 Travel expenses Total = approximately \$10,000	\$4,500	\$0	\$4,500	\$4,500	\$0	\$4,500	\$4,500	\$0	\$4,500	\$1,980	\$0	\$1,980	\$4,500	\$0	\$4,500	\$19,980	\$19,980
Other																	
Bus transportation of students: Bus transportation for classrooms to and from outdoor field days and spring summit. Estimated at approximately \$700 per trip. 3 trips per year per classroom = \$2,100 year per classroom. Yr 1 - \$2,100 x 9 = \$18,900 Yr 2 - \$2,100 x 14 = \$29,400 Yr 3 - \$2,100 x 18 = \$37,800 Total = approximately \$86,100 However, we expect each participating school to provide some cost sharing which will be at least approximately \$335/classroom on average. Transportation expense ENRTF subtotal = approximately \$72,379	\$0	\$0	\$0	\$48,253	\$0	\$48,253	\$0	\$0	\$0	\$24,126	\$0	\$24,126	\$0	\$0	\$0	\$72,379	\$72,379
COLUMN TOTAL	\$92,400	\$0	\$92,400	\$124,728	\$0	\$124,728	\$58,450	\$0	\$58,450	\$79,406	\$0	\$79,406	\$45,016	\$0	\$45,016	\$400,000	\$400,000

