NORTHEAST REGIONAL CONSERVATION NEEDS GRANT
2013 PROGRESS REPORT

Quarter: (circle one) 2013 1st 2013 2nd 2013 3rd 2013 4th

Grant Program, Number and Title: RCN grant 2012-02
Evaluation of Prevalence of Fungal Dermatitis in New England Timber Rattlesnake Populations

Organization: Roger Williams Park Zoo

Project Leader: Lou Perrotti

Abstract: Please provide a short (1-2 paragraphs) abstract that addresses EACH of the following: the objectives of your project, accomplishments to date, future plans and timelines with an estimate for when the project will be completed.

This quarter represented the first major sample collection session. Working with area biologists we scheduled, examined and sampled 43 timber rattlesnakes. Some of the biologists were unclear on some aspects of the sampling protocol but we were able to re-educate and train these biologists and should have fewer issues going forward.

Next quarter will include preparations for and the initial part of the fall sampling protocol. The project is still on track to be completed at the end of 2014.

Were planned goals/objectives achieved last quarter?

Yes. While the number of snakes sampled was below our expectations, we have made some changes that should help us catch up during future sampling times.

Progress Achieved: (For each Goal/Objective, list Planned and Actual Accomplishments)

Objective	Planned	Accomplished
Obtain an overall health assessment of multiple New England Timber Rattlesnake populations and determine the prevalence of skin lesions within each population	50 samples	43 (86% of goal)
Determine the prevalence of fungal dermatitis via biopsy of any lesions identified	50 samples	43 (86% of goal)
Determine the identification of any fungal organisms on biopsy by polymerase chain reaction testing with ITS2 sequencing	50 samples	43 (86% of goal)
Obtain baseline hematological values and compare values between individuals with or without the presence of fungal dermatitis	50 samples	43 (86% of goal)
Obtain baseline plasma biochemical values and compare values between individuals with or without the presence of fungal dermatitis	50 samples	43 (86% of goal)
Determine prevalence of ophidian paramyxovirus in New England Timber Rattlesnake populations using polymerase chain reaction and association with the presence of skin lesions	50 samples	43 (86% of goal)
Determine presence of heavy metals or toxins in individuals	50 samples	43 (86% of goal)

and association with the presence of skin lesions		

Difficulties Encountered:

1. While biologists did well with sampling techniques during our training sessions, a few biologists had difficulty when asked to perform the same sampling during this past quarter. We have worked with biologists to address these issues and with some biologists they are now bringing all snakes to the zoo where our staff samples the snakes.
2. The rate of infection was higher than expected (we planned on 25% of the snakes having dermatitis, the first season we noted a 43% rate of dermatitis). This has placed additional demands on the staff of the zoo to biopsy these additional snakes. We have sought out other veterinarians who can help to process the additional number of snakes requiring biopsies.

Activities Anticipated Next Quarter:

We will prepare for and begin another round of rattlesnake sampling.

Expected End Date:

End of 2014.

Costs: See attached financial report

Total life to date expenses (include this quarter): $2899.35

Total Approved Budgeted Funds: $81,148.71

Are you within the approved budget plan and categories? Yes

Signature:

Date: 8/10/2013

NORTHEAST REGIONAL CONSERVATION NEEDS GRANT
2013 FINANCIAL REPORT

Quarter: (circle one) 2013 1st 2013 2nd 2013 3rd 2013 4th

Grant Program, Number and Title: RCN Grant 2012-02
Evaluation of Prevalence of Fungal Dermatitis in New England Timber Rattlesnake Populations.

A. Current Quarter Grant Eligible Cost Summary:

	GRANT FUNDS	MATCH*	TOTAL
Personal Service Cost			
Salaries and/or Wages		3001.01	3001.01
Fringe Benefits		840.28	840.28
Personal Service Indirect Cost___%			
Non-personal Service Cost			
Travel			
Equipment			
Supplies & Materials	21.00		
Contractual Services			
Other Testing	1874.50		
Non-personal Indirect Cost___%			
TOTAL	1895.50		3841.29

*Match is a requirement of some grant programs; list matching funds if specified in contract.

B. Cumulative Total Grant Eligible Costs Claimed from Beginning of Agreement up-to-and Including Current Quarter:

Total Life-to-Date Expenses	$ 2899.35
Less Previous Payments Processed	$ 1003.85
Total Amount Due Grantee Now:	$ 1895.50

C. Personal Services Summary Grantee and 3rd Party Match*:

Date	Name, Affiliation, Title	Rate	Task	Hours	Total Cost
See	Staff Time Attached Detailed Breakdown			103 hrs	3001.07
		28%	Fringe		840.28

*Match is a requirement of some grant programs, document match if specified in contract.

NOTE: This certification must be signed prior to reimbursement of costs unless daily time and activity records summarizing personal services performed in relation to the project for each individual employee are signed by the appropriate supervisor and attached.

CERTIFICATION OF GRANTEE AND 3RD PARTY MATCH

I hereby certify that daily time and activity records for each individual detailing the specific hours devoted solely to this project which are distinguishable from work done on other projects during the same time frame, maintained in accordance with all applicable federal, state and general municipal accounting practices and procedures are available in our files for inspection.

Authorized Representative

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, monitoring, planning meeting, training)	Totals
4/19/13	4	27.31	Biologist Training Session	
5/1/13	1		Anesthesia & Sampling.	
5/3/13	2		Anesthesia & Sampling.	
5/8/13	1		" "	
5/14/13	1.5		" "	
5/15/13	3		" "	
5/16/13	1.5		" "	
5/21/13	2		" "	
Totals	16			436.96

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(Print name) Lou Perrotti (address) Roger Williams Park Zoo.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

Return to: State Wildlife Grants: Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD Volunteer Form version 4/20/2007*

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, monitoring, planning meeting, training)	Totals
5/23/13	2	27.31	Anesthesia & Sampling.	
5/24/13	2.5		" "	
5/29/13	1.5		" "	
6/6/13	1.5		" "	
Totals	7.5			204.80

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(Print name) Lou Perrotti (address) Roger Williams Park Zoo.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
6/6/13	45m	20.90	husbandry, medical	
6/9/13	2h		maint, husbandry	
6/10/13	15m		husbandry	
6/11/13	15m		husbandry	
6/12/13	15m		medical, husbandry	
6/13/13	20m		husbandry	
6/16/13	20m		husbandry, medical	
6/17/13	15m		husbandry	
6/18/13	15m		husbandry	
6/20/13	20m		husbandry, medical	
Totals	5.0			104.50

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(Print name) Bonnie Sarle (address) 1000 Elmwood Ave, Providence, RI, 02907.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
6/20/13	15m		histology, medical	
6/26/13	20m		histology, medical	
6/27/13	15m		histology, medical	
6/29/13	20m		histology, medical	
6/30/13	15m		histology, medical	
Totals	1.25			26.00

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(Print name) Bonnie Soule (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
4/19/13	4.0	20.70	Training Session for biologists	
5/1/13	0.25		Sampling	
5/3/13	2.75		anesthesia & sampling, husbandry	
5/4/13	0.25		Husbandry	
5/8/13	0.25		Sampling	
5/10/13	0.25		Husbandry	
5/11/13	0.25		Husbandry	
5/14/13	2.5		Anesthesia & Sampling	
5/15/13	2.75		Anesthesia & Sampling	
5/16/13	1.25		Anesthesia & Sampling	
Totals	14.5			303.05

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(Print name) Abigail Robbins (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence RI 02907

Signature of Volunteer: Abigail R. **Signature of Project Leader:**

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
5/17/13	0.25		Husbandry	
5/18/13	0.25		Husbandry	
5/21/13	2.75		Anesthesia & Sampling	
5/23/13	1.5		Anesthesia & Sampling	
5/24/13	0.25		Husbandry	
5/25/13	0.25		Husbandry	
5/28/13	0.25		Sampling	
5/29/13	1.5		Anesthesia & Sampling	
5/31/13	0.25		Husbandry	
6/1/13	0.25		Husbandry	
Totals	7.5			156.75

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(Print name) Abigail Robbins (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
6/6/13	1.25		Anesthesia & Sampling	
6/7/13	0.25		Husbandry	
6/8/13	0.25		Husbandry	
6/14/13	0.25		Husbandry	
6/15/13	0.25		Husbandry	
6/21/13	0.25		Husbandry	
6/22/13	0.25		Husbandry	
6/28/13	0.25		Husbandry	
Totals	3.0			62.70

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(Print name) Abigail Robbins (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
4/19/13	4	35.00	Training biologists (CT)	
4/29/13	0.5		Scheduling of samples	
5/2/13	0.5		Scheduling of samples	
5/9/13	0.5		Scheduling of samples	
5/8/13	13		Travel to Nft. Train protocols. Return w/samples	
5/13	0.5		Scheduling of samples	
5/15	1.5		Data Entry	
5/17	0.5		Scheduling of samples	
5/23	0.5		Scheduling of samples	
6/24	3.5		Data Entry	
Totals	25			875.00

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(Print name) Michael McBride (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907 _____.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

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4/19/13	4	35.00	Biologist training session	
5/1/13	1		medical care (600035-9)	
5/3/13	2.5		medical care (600035-9)	
5/8/13	1		Medical care (600042-41)	
5/9/13	0.5		Data entry	
5/14/13	1.5hr		medical Care (CCT6000/CCT93600)	
5/15/13	3hrs		medical care (600047-43)	
5/16/13	1.5		medical care (600040-43)	
5/17/13	0.5		Data entry	
5/22/13	2.0		medical care	
Totals	18.5			647.50

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(Print name) Kim Wojcik (address) 1000 Elmwood Ave, Providence, RI 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

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State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
5/22/13	0.25 hr.		Data entry – biopsy results (600039)	
5/23/13	1.75 hr.		Medical care (biopsy/sampling - 600049), data entry (600044 600045)	
5/24/13	2.5 hr		Medical care (biopsy/sampling, Recheck - 600046, 600048, 600037)	
5/25/13	0.5 hr		Data entry (600049, 600046, 600048, 600037)	
~~6/6/13~~			~~Medical care (600051)~~	
6/27/13	0.25		Data Entry	
Totals	5.25			183.75

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