

Tree Regeneration at Tifft Nature Preserve

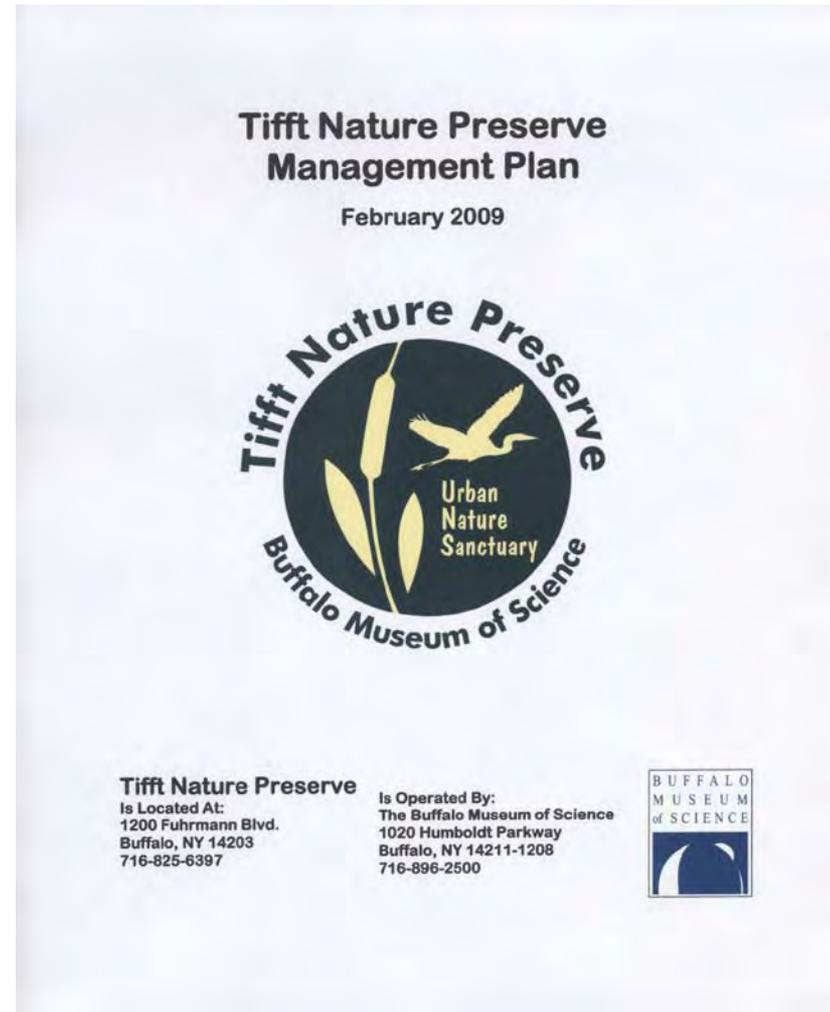
Funded by the Greenway Ecological Standing Committee



Goals of the Project:

1. Stewardship/Management
2. Environmental Education
3. Ecological Research
4. Public Enjoyment

**We've Made Progress
on All These Objectives**





Boundary of Tiff Nature Preserve

Woodlands

Route 5

Visitor Center

Woodlands



Project Timeline

Year 1 (2010)

Years 2 & 3 (2011 – 2012)

Habitat Enhancement Component

Control Invasive Species
Relocate Wetland Spoils to Enhance Soils
Construct Deer Enclosures

Control Invasive Species
Tree Seedling Planting Inside Enclosures
Tree Seedling Planting Outside Enclosures

Planting of Small Trees and Shrubs

Education Programming Component

Wildlife Ecology ALC Pilot Program
(offered to one school or district)

Tift Nature Preserve
Summer Science Institute
(one workshop offered each summer)

School and Public Programs on
Urban Wildlife, Invasive Species, &
Migratory Birds Offered Year-Round

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(offered to interested school or districts)

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Research & Monitoring Component

Deer Population Monitoring

Collect Pilot Data
on Research Plots

Invasive Species Monitoring &
Evaluating Control Methods

Deer Population Monitoring

Seedling Survival &
Deer Browse Monitoring

Invasive Species Monitoring &
Evaluating Control Methods

Brush Removal











Tiffitt Nature Preserve Map

Brush Removal

10 acres

\$16,675



Where Did All The Brush Go?

- Non-native and invasive species of shrubs were removed here to allow space for native trees and shrubs to grow, improving wildlife habitat.
- Native trees and shrubs will be planted in areas where brush is removed.
- Invasive brush will be removed in phases as native trees and shrubs are planted to provide continual habitat for wildlife throughout the preserve.
- Look at the other side of the trail where the brush was not cut.
How well do you think a tree seedling could grow there?
How many small trees do you see growing there?

If you would like to know more about invasive species control, tree planting, or wildlife habitat at Tiff Nature Preserve, please stop by the Visitor Center.

If the Visitor Center is closed, please call us at 825-6397 and ask for the Preserve Ecologist, David Spiering.



Developing Educational Components

- Forest Regeneration Summer Science Institute
- Forest Dynamics ALC School Program
- \$1,118.57 spent as of today



54 DEG F 05/03/10 21:25

TIFFT

RECON
OUTDOORSTM

pH

Phos.

Pot.

Nit.

7.0

trace

medium low

low

8.0

trace

medium

Trace

7.0

low

medium

Trace

7.0

low

medium

Trace

7.0

low

Very high

Trace

7.0

trace

Very high

Trace

8.0

low

HIGH

Trace

8.0

trace

very high

Trace

7.0

low

Very high

trace

8.0

trace

HIGH

TRACE

HIGH

Soil Testing



Invasive Species Control Research



\$631.74 spent as of today

Before





Eagle Scout Project

Gerdau Ameristeel Recycling





University of Buffalo Students

USFWS Amherst Office



WNY AmeriCorps ServiceCorps Crew



Tree Planting



Tree Fencing



General Mills Volunteer Day





Watering Trees





RPM ECOSYSTEMS, LLC

P.O. Box 6

Dryden, NY 13053

Phone: (807) 844-9590 Fax: (807) 844-9591

Email: sales@rpmecosystems.com

Acknowledgment

Ordered Date 2/19/2010

Invoice Number SI-101455

Ship Date 5/5/2010

Invoice Date 2/19/2010

Bill To:

Buffalo Society Of Natural Resources
c/o David Spiering
1020 Humbolt Parkway

Buffalo, NY 14211
Ph. (716) 825-6397

Ship To:

Tiff Nature Preserve
c/o David Spiering
1200 Fuhrman Blvd

Buffalo, NY 14203
Ph. (716) 825-6397

Expenditures

Trees \$3,238

Tools & Supplies \$2,940

Tree Planting Supplies \$2,586

Service Corps Crew \$4,647

Total \$13,413

CUSTOMER ID	Terms	SALES REP	CUSTOMER PO		
2805	25% Deposit - Bal Net 30	shams	4430		
QUANTITY SHIPPED	DESCRIPTION		SIZE	UNIT PRICE	EXT. PRICE
	SCIENTIFIC NAME	COMMON NAME			
15	Acer rubrum	red maple	#3	15.00	225.00
12	Acer saccharinum	silver maple	#3	13.00	156.00
15	Liriodendron tulipifera	tuliptree	#3	15.00	225.00
24	Morella pensylvanica	northern bayberry	#3	11.00	264.00
24	Physocarpus opulifolius	common ninebark	#3	11.00	264.00
27	Platanus occidentalis	American sycamore	#3	13.00	351.00
15	Quercus bicolor	swamp white oak	#3	15.00	225.00
24	Sambucus canadensis	common elderberry	#3	11.00	264.00
24	Spiraea alba	meadowsweet	#3	11.00	264.00
15	Thuja occidentalis	northern white cedar	#3	15.00	225.00
75	Weed Barrier Mat		Each	2.50	187.50
270					

TERMS AND CONDITIONS:

All quotes are good for 30 days from Quote Date. An order Acknowledgement indicates that your order has been reserved, prior to this we offer no guarantee on inventory availability. A 25% deposit is required on each order prior to the order being reserved. Any cancellations or order adjustments must be made in writing 30 days prior to scheduled date of shipping. All cancellations or changes subject to a 25% restocking charge of original order amount. Deliveries must be scheduled in advance with our shipping department. For all credit accounts payment is net 30 days from shipment or pick-up date. For complete details of our terms and conditions please see our catalog or we www.rpmecosystems.com.

Subtotal:	\$2,650.50
Freight:	\$588.00
Sales Tax:	\$0.00
Total:	\$3,238.50
Remaining Total	\$3,238.50



Budget

Category	Niagara River Greenway	BMS ¹ Science Dept.	BMS CSL ² Dept.	Darling ³ & Baird ⁴	FOT ⁵	Volunteers	Totals
Planning	-	-	-	-	-	-	\$0
Construction Supplies Planting Contractors							
• Materials & Services	\$63,000	-	-	\$5,000	\$2,500	\$250 ⁷	\$70,750
• Staff Implementation ⁶	\$5,000	\$7,750	-	-	-	-	\$12,750
Acquisition	-	-	-	-	-	-	\$0
Administration	\$10,000	-	-	-	-	-	\$10,000
Education Program Support							
• Materials & Transportation	\$12,000	-	-	-	-	-	\$12,000
• Staff Implementation	\$10,000	\$2,000	\$5,250	-	-	\$250	\$17,500
One-Year Totals	\$100,000	\$9,750	\$5,250	\$5,000	\$2,500	\$500	\$123,000
Three-Year Totals	\$300,000	\$29,250	\$15,750	\$15,000	\$7,500	\$1,500	\$369,000

¹ BMS – Buffalo Museum of Science, ² CSL – Center for Science Learning, ³ The Darling-Sullivan Family Foundation, ⁴ The Baird Foundation, ⁵ Friends of Tift Nature Preserve, Inc., ⁶ All amounts for Staff Implementation include 21% Fringe Benefits, ⁷ Volunteer time will be valued at \$7.50/hour

\$31,838.26 Spent as of Today

Volunteer's Contribution

My Time

340 Hours

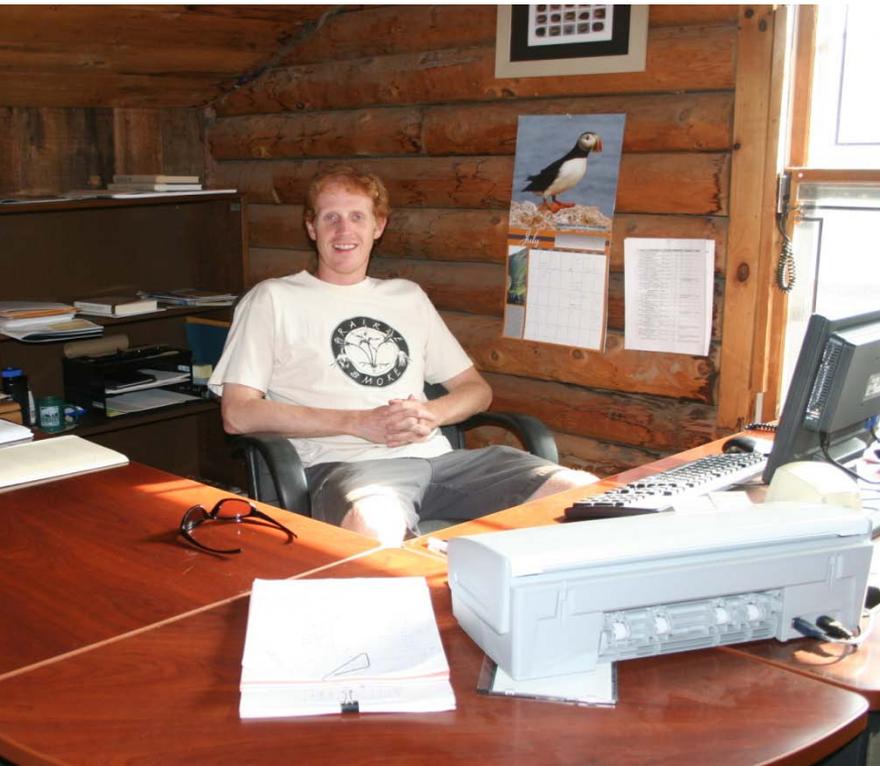
\$9,037.20

6 Work Days

82 Volunteers

323 Hours

\$2,341.74



Upcoming Projects

More Tree Planting

Follow up Brush Removal to Prepare for Tree Planting

Herbaceous Invasive Species Control

Research Projects and Soil Testing

Tree Planting Consultation

Conduct Educational Programs



Questions?

