

Niagara Greenway Pollinator Partnership

**Meeting Agenda
21 November 2019
Buffalo Museum of Science**

Introductions

Mission

Who Are We?

Strategies for Success

Mission

- To Advocate and Plan for Conservation in the Niagara River Greenway through the lens of **Pollinator Conservation**.
- To Influence **Policy**
- To promote **Education, Science, and Information Sharing**
- To Create **Partnerships and Networks**

Who Are We?

- Agencies and Departments
- Schools/Universities
- Private Sector
- Not-for-profit
- Individuals
- Decision makers and Influencers

What does “Conservation through the lens of Pollinator Conservation” Mean?

- Pollinators are in many ways the foundation of ecological health, healthy ecosystems, and habitats.
- Healthy ecosystems are the foundation of human health.
- Pollinators promote and rely on biodiversity
- Pollinator conservation relies on a wholistic approach including understanding sites, target species needs, and a **complete ecosystem** strategy that is location appropriate, is resilient, is regenerative.

Pollinators Need

Healthy soils, healthy native
plant communities, careful
and dedicated stewardship.

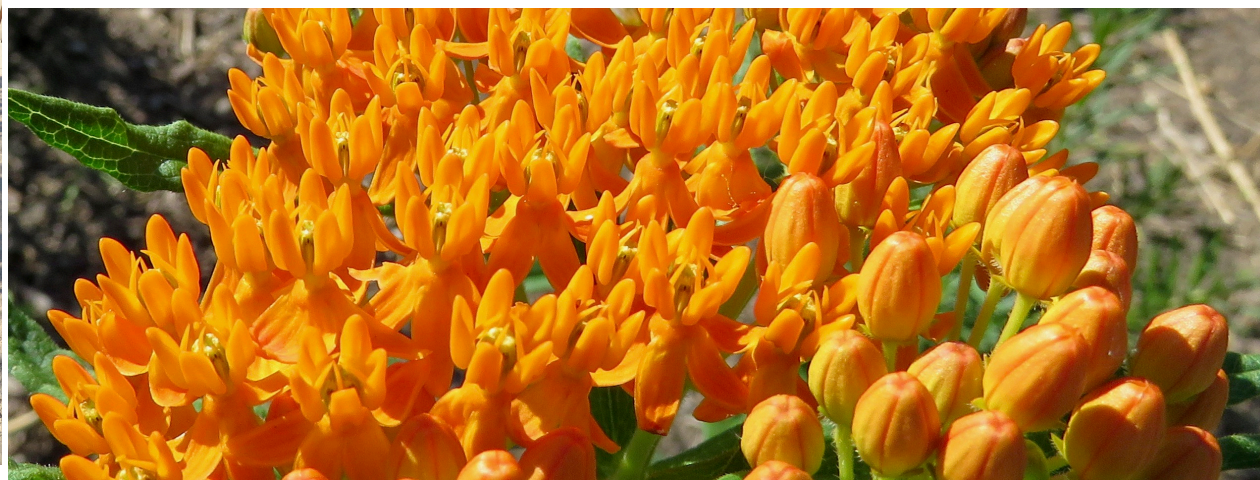
Biodiversity Includes

Insects, Birds, fish, mammals,
reptiles, amphibians,
vegetation, soil organisms.



Pollinator Habitat Includes

- forage and nectar resources
- nesting resources
- water resources



Policy Example Proposal #1

- The Niagara River Greenway decision makers consider pollinator conservation strategies and complete ecosystem approaches to reflect and help characterize and measure overall conservation strategies and projects.

Niagara River Greenway and its Watersheds

Think Global, Act Local

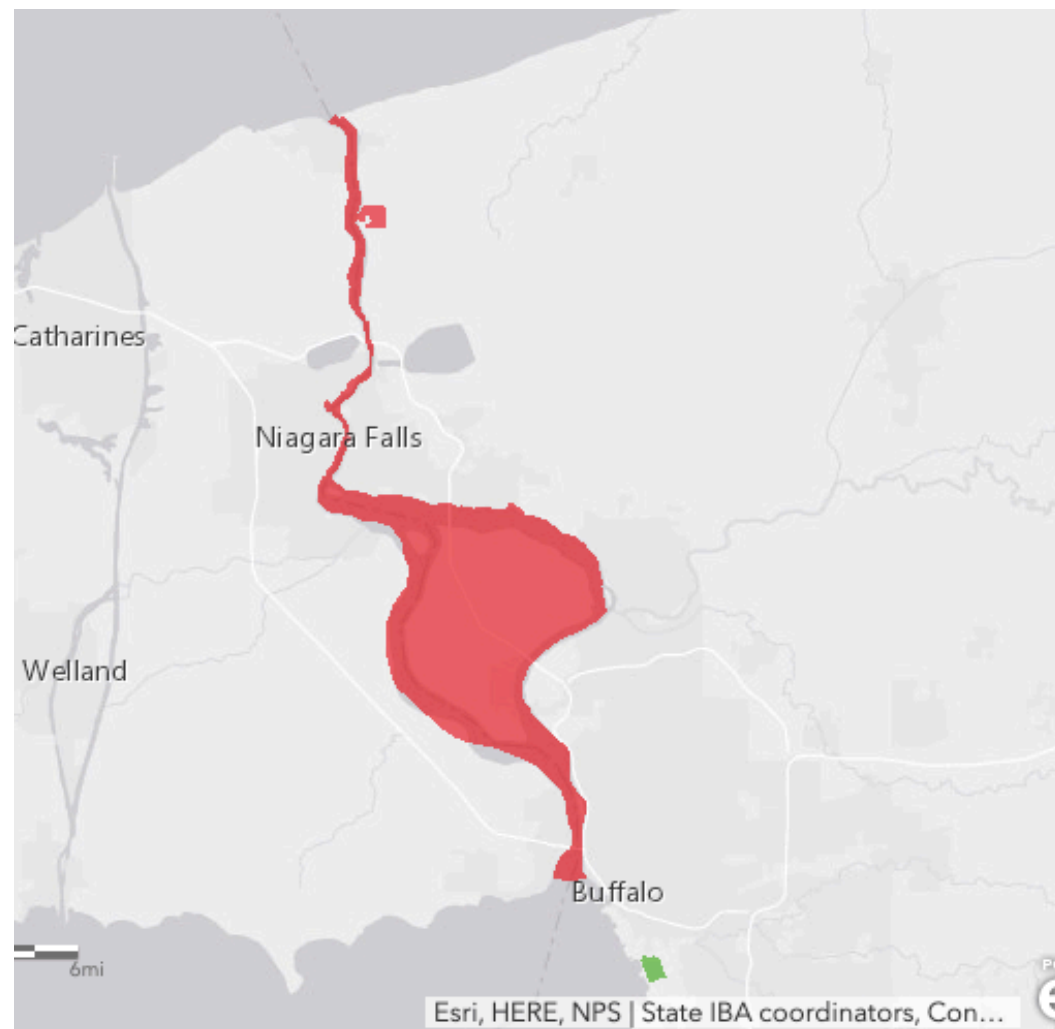


Niagara River Corridor Globally Significant Important Bird Area

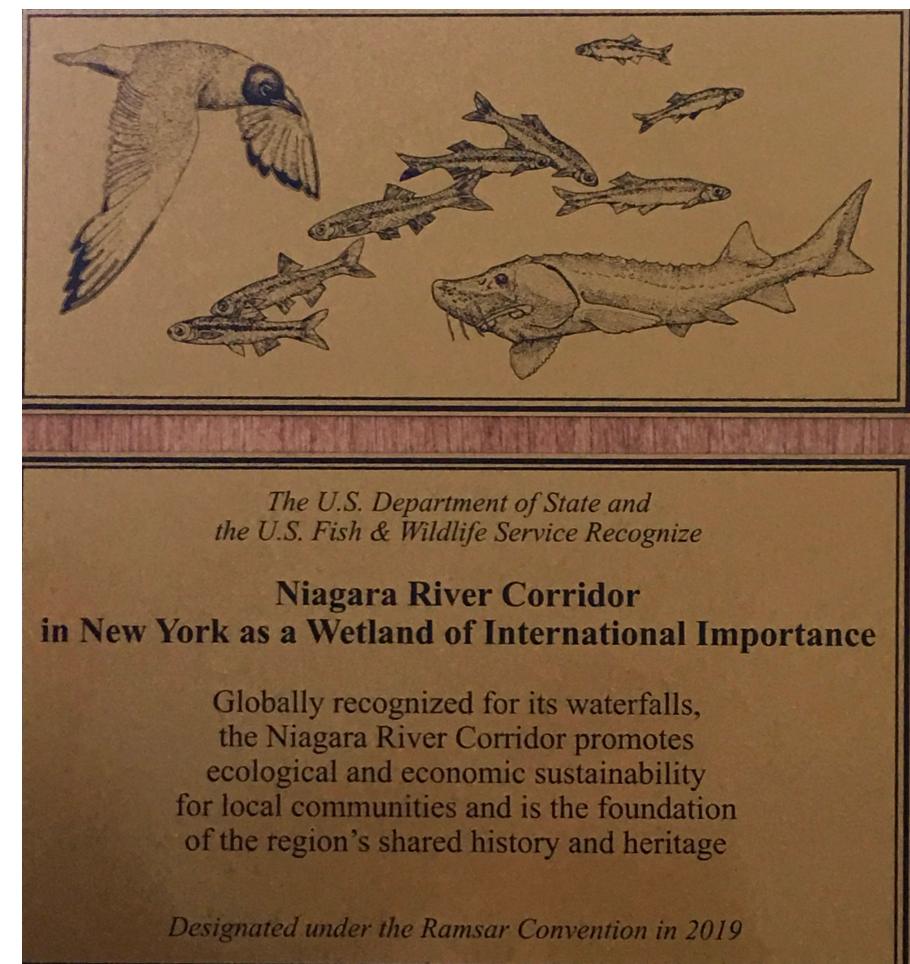
Important Bird Areas

Niagara River Corridor

New York



RAMSAR International Wetlands of Significance



What is a Pollinator Corridor?

Connectivity

Fragmentation

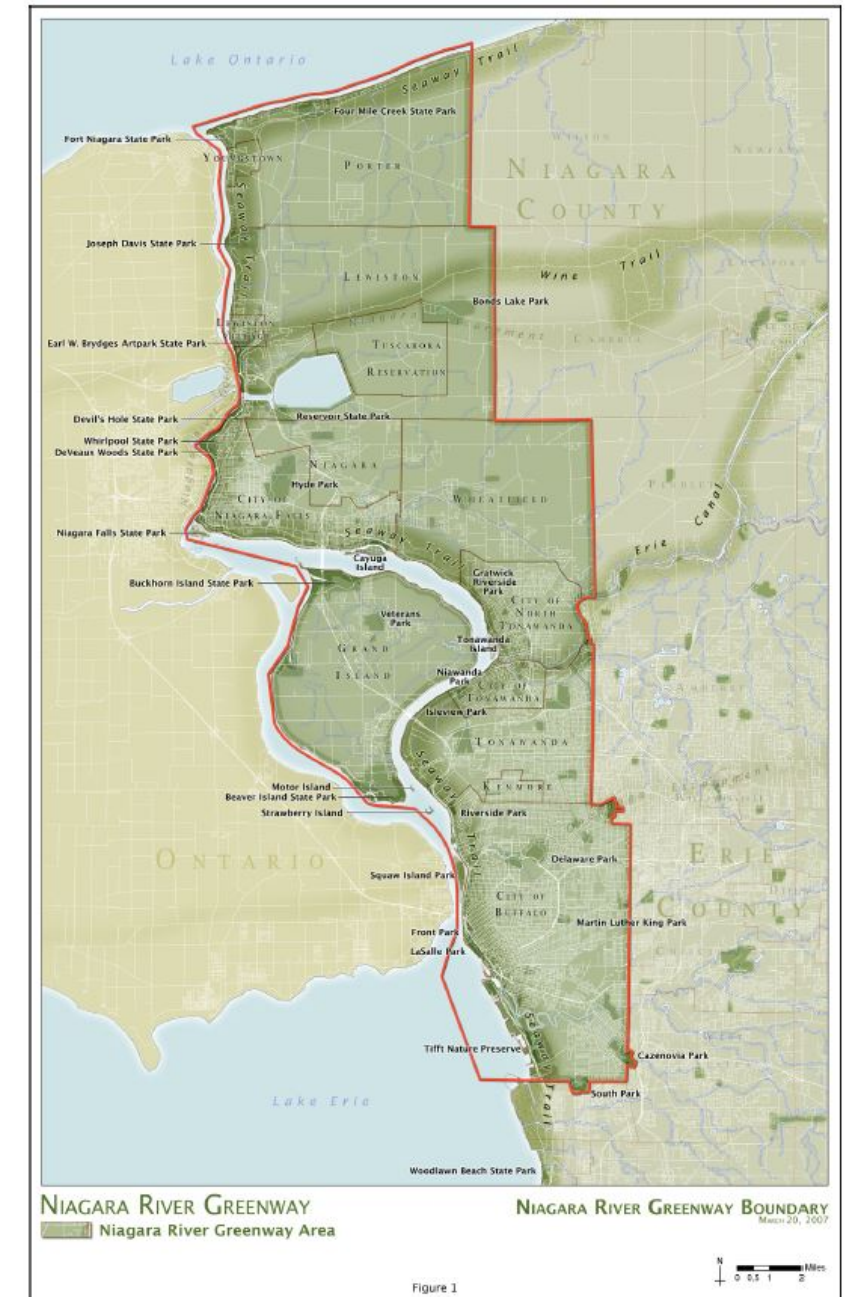
Individual pollinator species have varying range requirements including forage and migration

Some are very micro habitat oriented

Fragmentation of all habitat

Loss of Habitat and Biodiversity

Pollinator Conservation as a gateway complete ecosystem conservation strategies



Strategies for Success

BEST PRACTICES

- Site Targeting/Assessment
- Site Selection Matrix
- Ownership (private/public)
- Site Conservation Opportunities (restoration strategy, education strategy/fundability/suitability)
- Habitat type (grassland, forest, wetland, shoreline)
- Size/cost landscape level, small plots



Pollinator Conservation Standards

Scorecard

Site Assessment

	1	2	3	4	5
Natural History	1	2	3	4	5
Land Use History	1	2	3	4	5
Ecological Assessment	1	2	3	4	5
Site Conditions/Soil Assessment	1	2	3	4	5
Native Plants (present or expected)	1	2	3	4	5
Native Pollinators (present or expected)	1	2	3	4	5
Additional Fauna Considerations	1	2	3	4	5

Development/Conservation Target

	1	2	3	4	5
Purpose of Project	1	2	3	4	5
Target Species Plants	1	2	3	4	5
Target Species Pollinators	1	2	3	4	5
Short and Long-term Planning	1	2	3	4	5

Installation

Soils and Media Plan	1	2	3	4	5
Soils and Media Inspection	1	2	3	4	5
Stormwater Management	1	2	3	4	5

Management and Maintenance

	1	2	3	4	5
Short Term Plan	1	2	3	4	5
Long Term Plan	1	2	3	4	5
Assessment and Inspection Schedule	1	2	3	4	5

Staff/contractor Training

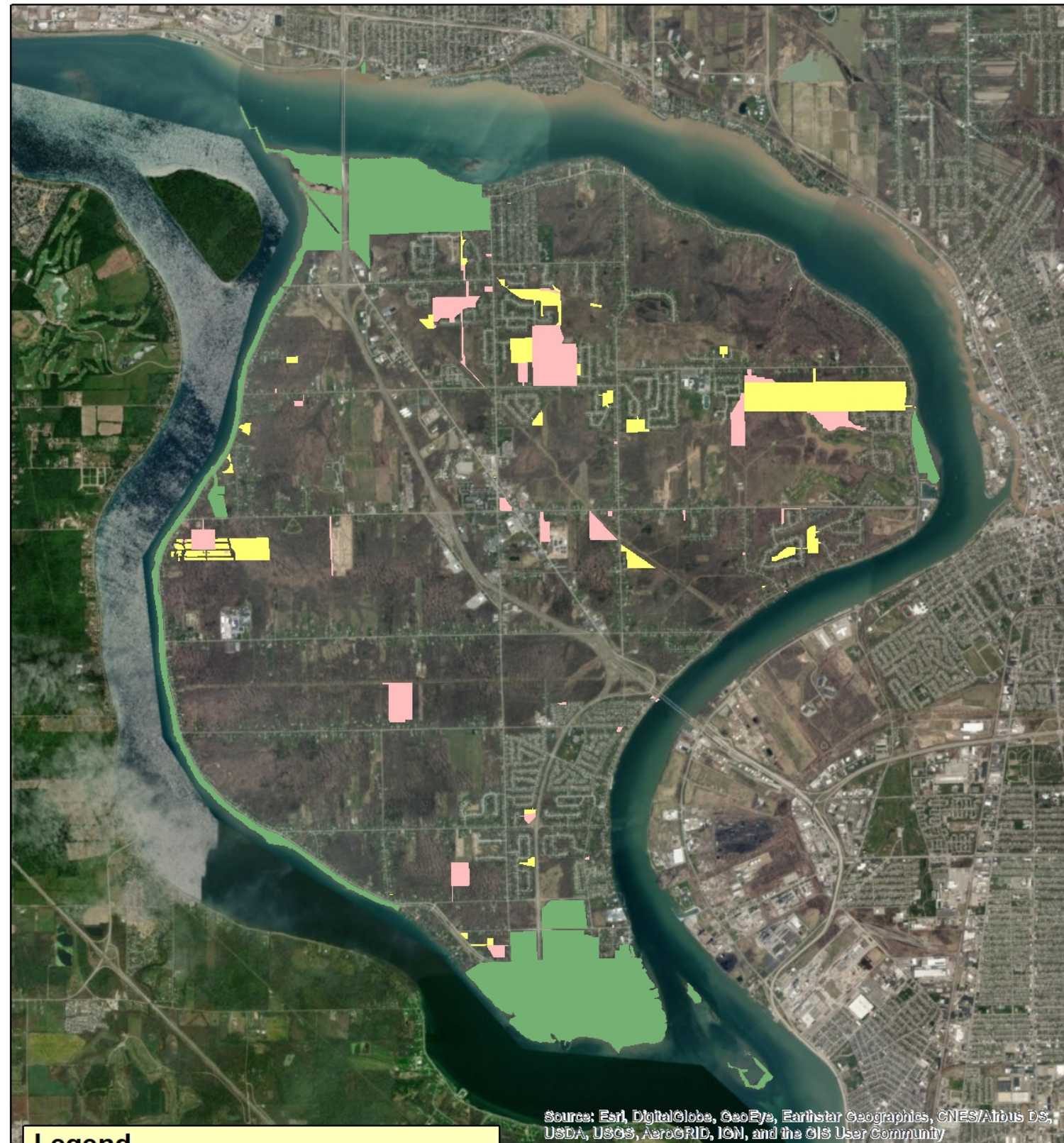
	1	2	3	4	5
IPM	1	2	3	4	5
Best Practices	1	2	3	4	5
Goals Assessment	1	2	3	4	5

Notes:

Signature: _____ Date: ____/____/____

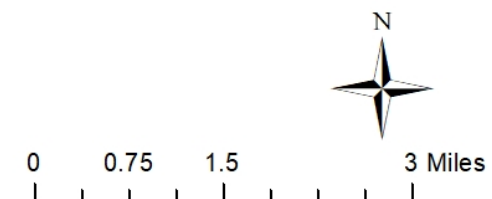
Grand Island - Public Land

OWNERSHIP



Legend

- State-owned Parks / Conservation
- Town-owned Parks
- Other Town Parcels



Strategies for Success

BEST PRACTICES

Site Specific Conservation Plan to include site natural history context, site conditions, species targets, long and short term goals, and written work plan.

To include:

Site Specific Management Plan
(who, what, where, how)

Site Specific Maintenance Plan
Training, Work plans, Schedule

Best Practices Guide (s)

POLLINATOR CONSERVATION ASSOCIATION

Online Best Practices Guide

[http://
www.pollinatorconservationassociation.o
rg/best-practices.html](http://www.pollinatorconservationassociation.org/best-practices.html)



Best Native Pollinator Conservation Practices



Volunteers manage pollinator conservation area at
Times Beach Nature Preserve in Buffalo New York

Native Pollinator Conservation **BEST PRACTICES GUIDE** 2019

Strategies for Success

EDUCATION, RESEARCH, OUTREACH

- Programming
- **Research** Example: Of the 2000+ species of native bees that could be here, what is here, where are they, and what are species conservation needs and conditions? (Red List) (Local and Regional Colleges, Citizen Science)
- Education (Presentations)
- Training (Workshops)
- Building Capacity
- Building Partnerships and Relationships

Strategies for Success

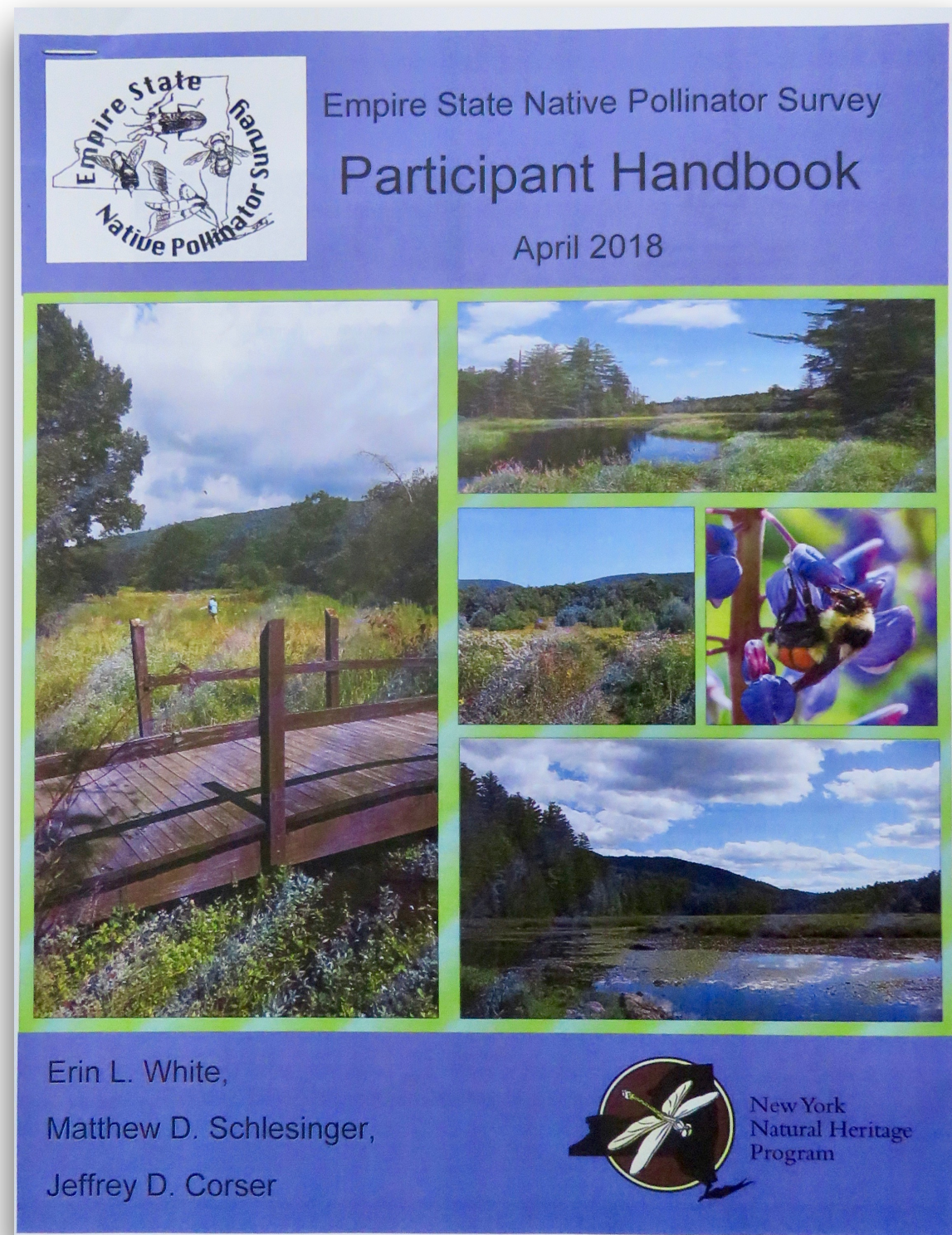
CITIZEN SCIENCE



New York
Natural Heritage
Program



eBird



Strategies for Success

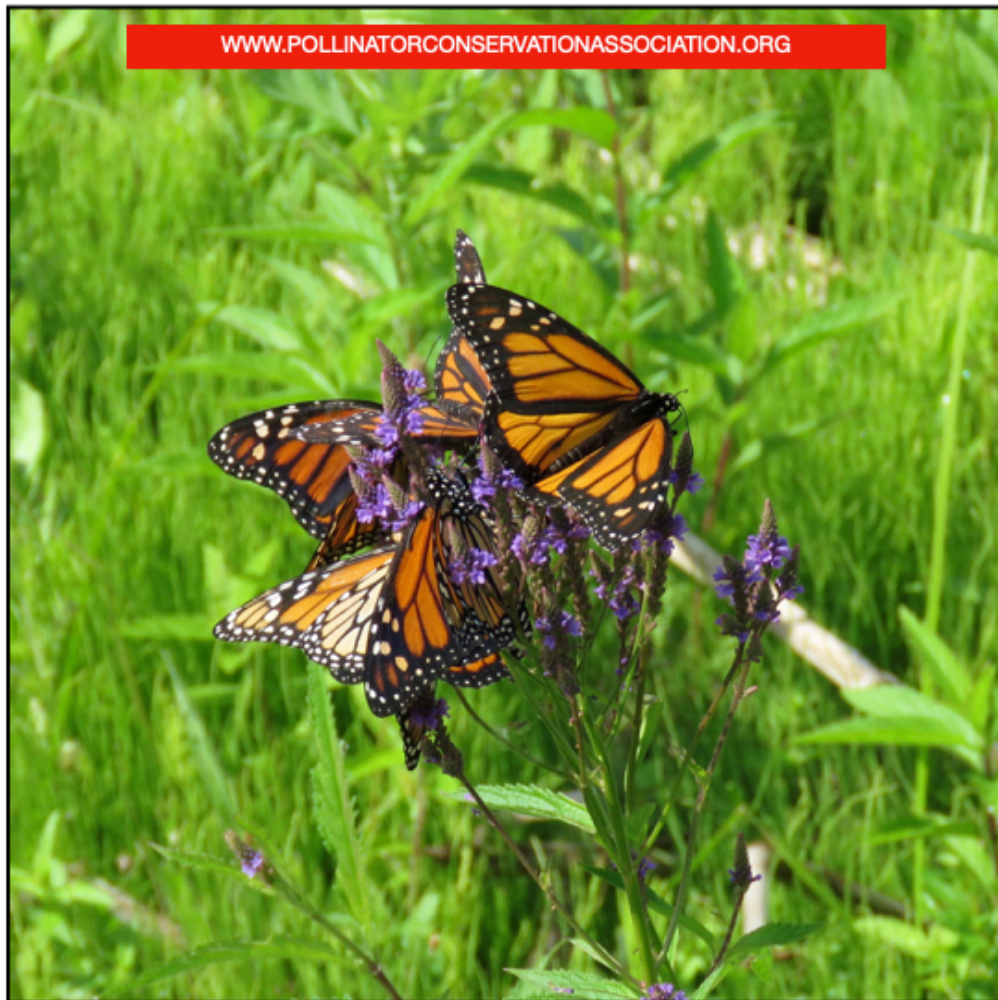
OUTREACH



Butterfly - Mariposa - Papillion - Bee - Abeja - Abeille

the POLLINATOR

The Native Pollinator Conservation Magazine
Fall/Winter 2018-19 Volume 1 Issue 1



Monarch Butterflies on native Blue Vervain (*Verbena hastata*)
at Times Beach Nature Preserve, Buffalo, New York



Butterfly Mariposa Papillion Bee Abeja Abeille

the POLLINATOR

The Native Pollinator Conservation Magazine SPRING 2019 Volume 2 Issue 1



Northern Spicebush (*Lindera benzoin*) Joseph Davis State Park, Niagara County, New York

Butterflies and Their Host Plant

PLANT NATIVE!

1. Spicebush swallowtail

Host Plant: Sassafras Trees
AND SPICEBUSH

Caterpillar



Host Plant



Adult



2. Zebra Swallowtail

Host Plant: Pawpaw Tree



3. Gulf fritillary

Host Plant: Passion Vine



4. Monarch

Host Plant: Milkweed



5. Painted ladies

Host Plant: Thistles



6. Viceroy

Host Plant: Willow Tree



7. Tiger swallowtail

Host Plant: Ash Tree
Also Wild Cherry Tree
Yellow Poplar Tree



8. Red admiral

Host Plant: Nettles



9. Question Mark

Host Plant: Hackberry Tree



10. Sulphur

Host Plant: Maryland senna



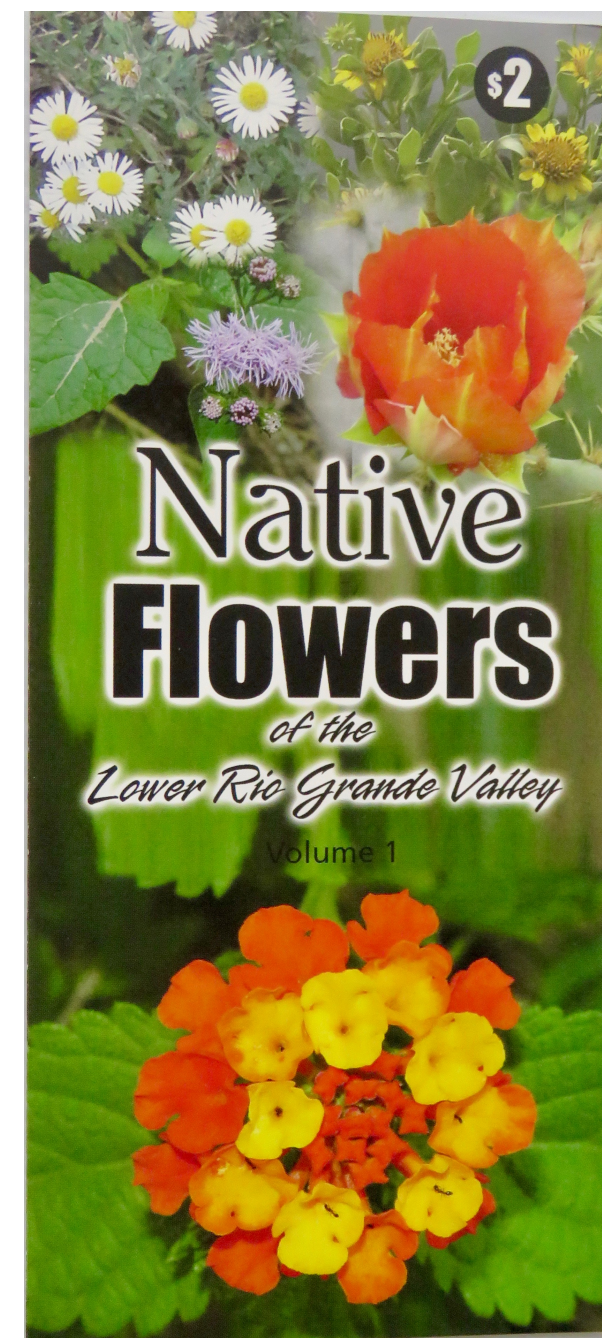
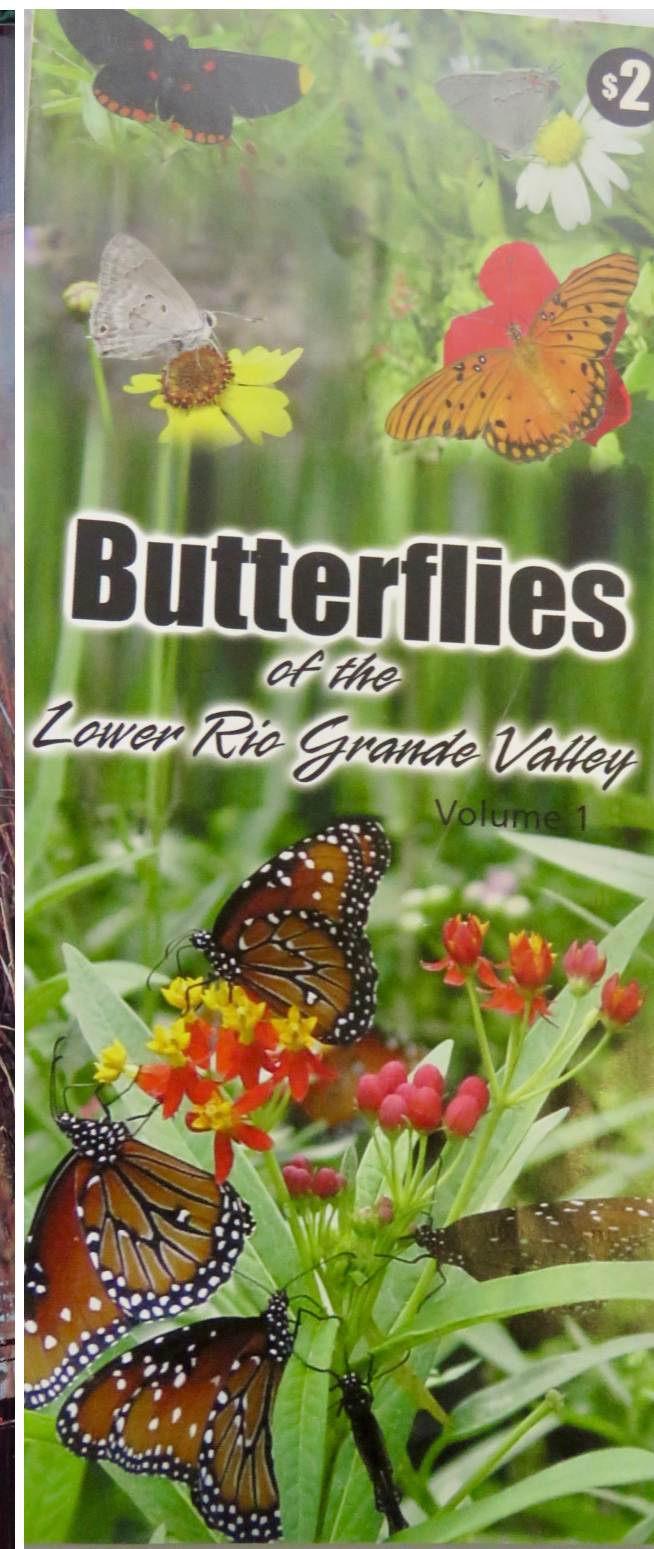


POLICY Proposal:

**Building Conservation
Strategies with
Economic
Development**



<http://www.birdsontheniagara.org/>



Policy Proposals

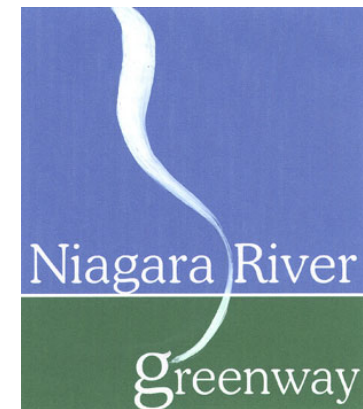
(sample)

- Pollinator Conservation as a gateway Complete Conservation
- Adopt and promote best practices regarding sites including site selection, species targets, management, and maintenance.
- Adopt and promote education and outreach strategies and tools including programming and presentations, media (i.e the POLLINATOR, maps, brochures) workshops and training, volunteer coordination, citizen science and professional research.

WHAT IS THE NIAGARA GREENWAY POLLINATOR PARTNERSHIP?



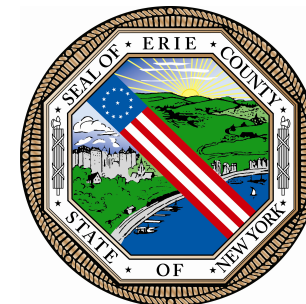
Leadership, Collaboration,
Partnerships, Network, Advocacy



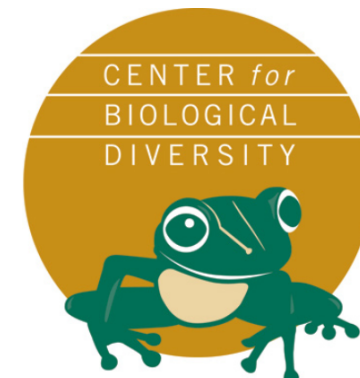
**NY Power
Authority**



**Parks, Recreation
and Historic Preservation**



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