WELCOME!

MERCER EDUCATIONAL GARDENS



OF MERCER COUNTY

Mercer EducationalGardens



2007-2010

Wetland Meadow Restoration At

Mercer Educational Gardens



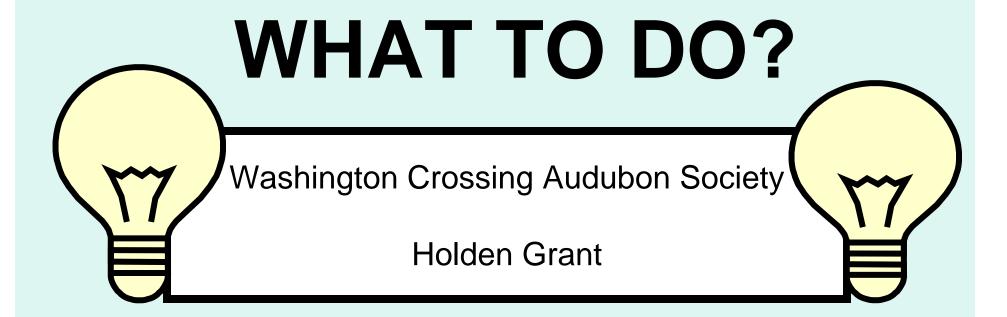




Meadow in 2007



- Reed canary grass (Phalaris arundinacea) is pervasive
- Cool season grass
- Mat forming
- Invasive
- Non native
- Poor wildlife habitat



- October 31, 2007--Application submitted
- January 18-24, 2008—Herbicide Questions
- March 14, 2008--\$3,940 Awarded

PROJECT PLANNING

- Coordinate herbicide with Mercer County Parks
- Obtain Soil test from Rutgers
- Prepare plant list and order plant plugs
- Order or obtain necessary supplies
- Recruit MGs to be team leaders
- Recruit MGs to help on planting day
- Divide site into planting sections for teams
- Post explanatory signage

Soil Testing:

Following Rutgers Recommendations



- 3/27/08 Sample sent to Rutgers
- 4/10/08 Soil pH report = 5.8

•4/25/08 – Lime application: (20lb/1000sq.ft)



Herbicide Application by Mercer County Parks

Notice posted on 4/11/08

On or about April 17th 2008, a licensed Mercer County Parks staff member will be treating the invasive reed canary grass in the adjacent meadow area with Riverdale Aqua Neat, an aquatic herbicide (53.8% Glyphosate, N-(phosphonomethyl)glycine; 46.2% other ingredients) and Brewer side-kick, a nonionic surfactant (100% D'limonene, related isomers and emulsifiers). The treatment will be repeated on any reemerging reed canary grass sprouts on or about May 19th 2008. Control of the invasive reed canary grass is the first step in a meadow restoration project being performed by the Master Gardeners of Mercer County with grant funding by The Washington Crossing Audubon Society.

For further information call 609-4261181.

4/18/08--First application of generic aquatic herbicide 5/23/08 –Second application of generic aquatic herbicide





POSTED SIGNAGE

MEADOW RESTORATION IN PROGRESS

MEADOW RESTORATION PROJECT IN PROGRESS

GOAL: To create an attractive bird and butterfly friendly habitat in this meadow by planting a selection of 3 native grasses and 12 native wildflowers that do well in wet soil.

STEP 1: Licensed Parks employee sprays herbicide to control invasive reed canary grass (Blue color temporarily indicates where spray was applied)

STEP 2: Master Gardeners plant 3,488 plugs of native grasses and wildflowers (Each plant plug marked with a colored flag)
STEP 3: Master Gardeners monitor plant health in meadow.
Plant maturity expected after 2-3 years.

<u>Project participants</u>: Master Gardeners of Mercer County (609-989-6853); Mercer County Parks Commission (609-426-1181). Funds provided by Washington Crossing Audubon Society Holden Grant.

MEADOW PLANT LIST GRASSES (70%) FORBS (30%)

Andropogon virginicus (Broom sedge)

Juncus effusus (Common rush)

Panicum virgatum (Switch grass)

Chasmanthium latifolium (Sea oats)

All of these plants do well in wet soil.

Asclepias incarnata (Swamp milkweed)

Helenium autumnale (Helen's flower)

Pycnantheum muticum (Mountain mint)

Rudbeckia laciniata (Green headed coneflower)

Senecio aureus (Golden ragwort)

Solidago graminifolia (Lance-leaved goldenrod)

Verbena hastata (Blue vervain)

Vernonia noveborecensis (New York ironweed)

Veronicastrum virginicum (Culver's root)

Tradescantia 'Purple Profusion' (Spiderwort)

Physostegia virginiana (Obedience plant)

Preparing the Site: 5/28/08

Marking Sections and Transplanting Mature Natives



Forbs (wildflowers) transplanted on MAY 28, 2008



Lobelia cardinalis
Cardinal flower



Silphium perfoliatum Cup plant



Monarda fistulosa Wild bergamot



Hibiscus moscheutos Swamp hibiscus



Filipendula rubra Queen of the prairie

Unexpected Finds



 Mature Sensitive ferns appear after herbicide application



 Box turtle explores the habitat under restoration

Plugs are Delivered by North Creek Nurseries

• 5/29/08

3,216Plugs



Overnight plug storage in Equestrian Center barn

• 5/29/08





3,216 Plant Plugs

Team leader orientation 8:30am on 5/30/08









MG's sign up for teams—9:30am



Teams begin planting







Music for planting



And more planting









And more planting









And more planting









It's definitely a wetland!









Waving Flags = End in Sight









Planting completed! 12:30pm 5/30/08







A long, but rewarding day!



Grasses (70% of all plugs) planted on MAY 30, 2008



Andropogon virginicus
Broom sedge



Chasmanthium latifolium
Sea oats



Panicum virgatum
Switch grass



Juncus effusus

Common rush

Forbs (wildflowers) planted on MAY 30, 2008



Asclepias incarnata Swamp milkweed



Hellenium autumnale
Helen's flower



Physostegia virginica
Obedience plant



Pycnanthemum muticum

Mountain mint



Rudbeckia laciniata
Green headed coneflower



Senecio aureus Golden ragwort

Forbs (wildflowers) planted on MAY 30, 2008



Solidago graminifolia Lance-leaved goldenrod



Tradescantia virginica
Spiderwort



Verbena hastata Blue vervain



Vernonia noveboracensis

New York ironweed



Veronicastrum virginicum
Culver's root



Six weeks later: July 17, 2008









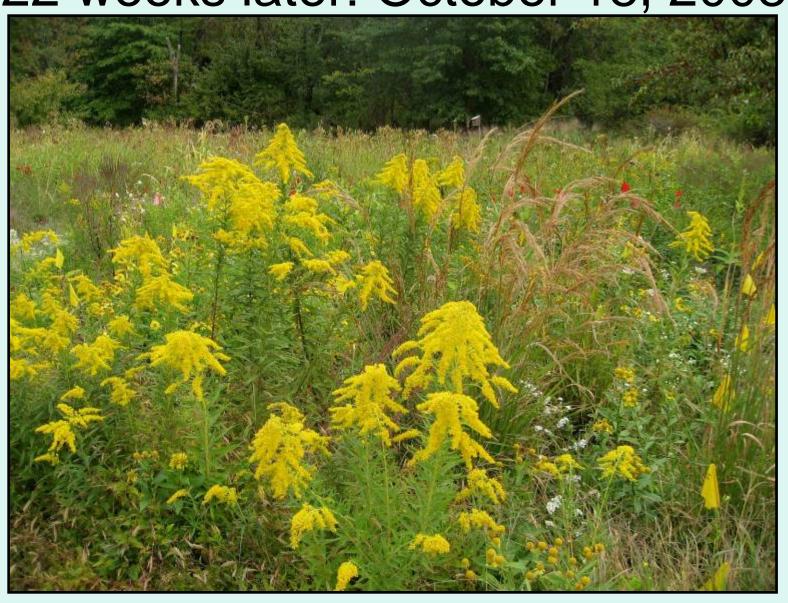
12 weeks later: August 24, 2008



12 weeks later: August 24, 2008

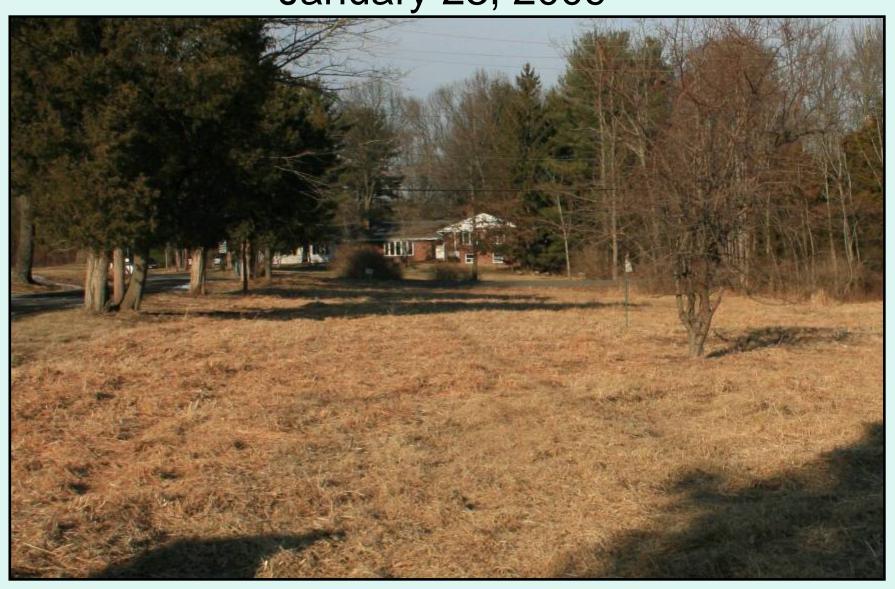


22 weeks later: October 18, 2008



After annual mowing:

January 23, 2009

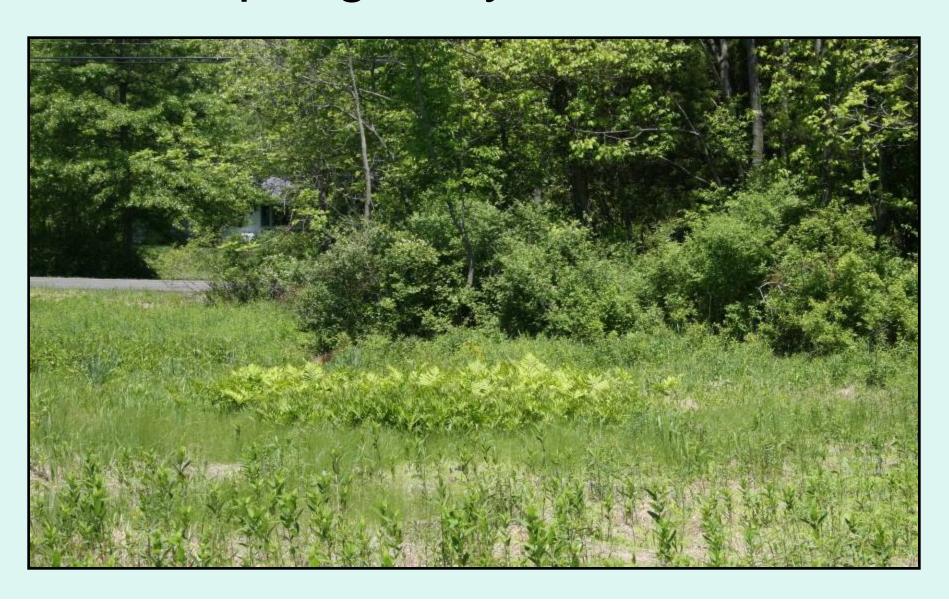


After annual mowing:

January 23, 2009



Spring: May 20, 2009



Spring: May 20, 2009



Early Summer: June 28, 2009

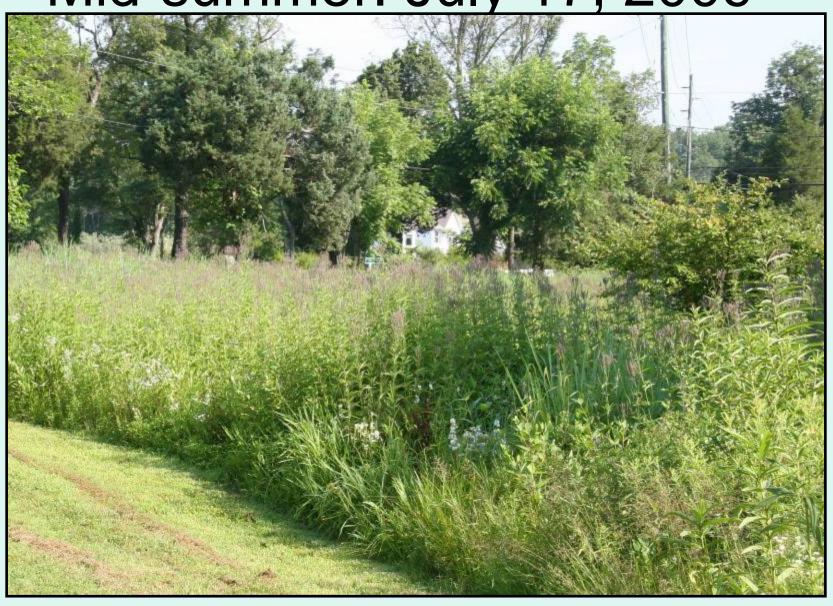


Early Summer: June 28, 2009



Early Summer: June 28, 2009

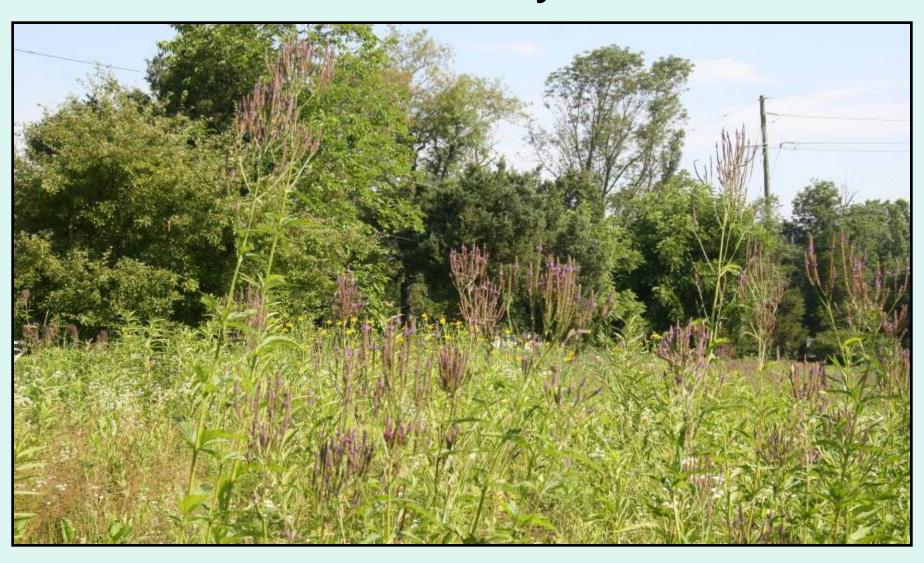












Early Fall: September 25, 2009



Early Fall: September 25, 2009



Sights in the Fall Meadow







Photos courtesy of Douglas Tallamy













A few wildlife observations









Meadow in September 2007



Meadow in September 2009



NATIVE GRASSES AND WILDFLOWERS

PROJECT PARTICIPANTS:





FUNDING SOURCE:

WASHINGTON CROSSING AUDUBON SOCIETY HOLDEN GRANT