

## What is Green Infrastructure?



- Green
   Infrastructure
   is nature...its
   vegetation and
   the soil it
   grows in.
- The purpose of GI is to sustain life on earth.





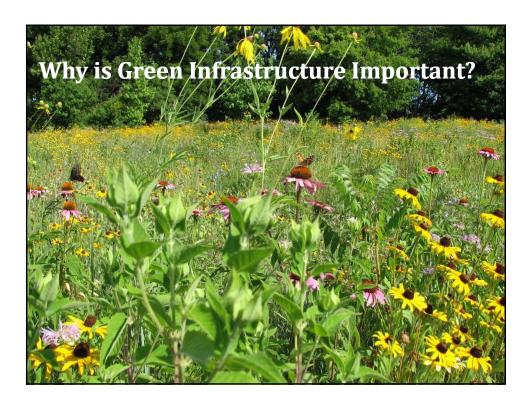
#### Green Infrastructure can be...

- Parks & Nature Preserves
- Native Trees
- River Friendly Lawns
- Wildflower Gardens
- Riparian Buffers
- Rain Gardens
- Green Roofs
- Native Plant Meadows
- Schoolyard Habitats
- No-Mow Areas
- Butterfly Gardens
- Streambank Stabilization









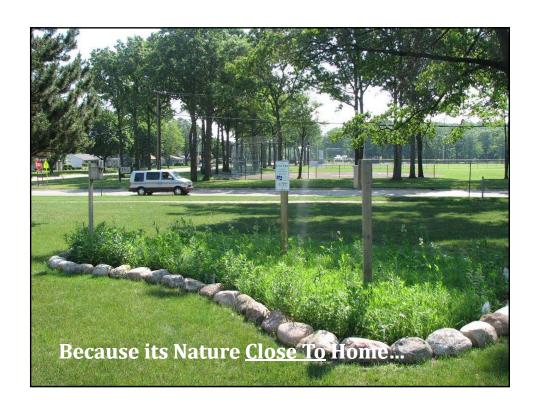
## The Solution 2 Pollution is **Vege2tion**!!!!! ©

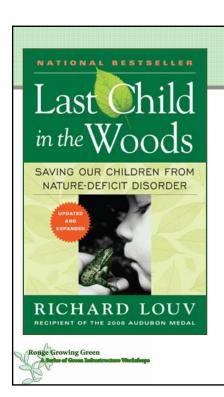
- Mother Nature is a <u>Better</u> Engineer than We Will Ever Be!!
- Plants are Our <u>Teachers</u>, Our <u>Models</u>, Our Waste Treatment/Pollution Control <u>Experts</u>
- Native Plants are the <u>Heart</u>, the <u>Arteries</u>, the <u>Skin</u> and the <u>Hair</u> of Our Earth.











## KIDS <u>NEED</u> NATURE!!

#### **Lost Green Infrastructure causes:**

- •Nature Deficit Disorder
- •Attention Deficit Disorder
- •Child Obesity & Diabetes
- •Loss of Purpose/Spirituality
- •No sense of "place"





#### GI SAVES MONEY!!!

- -Energy Savings
- -Storm Water Detention
- -Maintenance Cost savings

#### **Hines Park Grow Zones**

- -\$85,000 storm water detention savings
- -\$84,000 maintenance per year savings

Child chasing butterfly ... PRICELESS!!







## What Happens to the "Green Infrastructure"

#### Determines the:

- Quality of Our Water,
- Quality of the Air We Breath
- Quality of Our Recreation Opportunities the Quality of Our Communities

#### Ultimately "Green Infrastructure" Determines the:

- the Economic Viability of Our Communities,  $\underline{\mathsf{AND}}$
- the Quality of Our Lives!!!







#### Use Your Head - You Live in a Watershed!!

- Recognize Your Home is Water Front Property
  - impervious surfaces
  - storm sewers
- Admit You are Part of the <u>Problem</u> and Want To Be Part of the <u>Solution</u>!!
- •Use Water As a Resource Not a Waste.















## **Mission Statement**

The Greening of Detroit works to guide and inspire others to create a "greener" Detroit through planting and educational programs, environmental leadership, advocacy and by building community capacity.







- In the last 20 years The Greening of Detroit has planted over 58,279 trees & revitalized:
  - 1,217 city blocks
  - 1,379 vacant lots
  - 41 playfields
  - 92 parks





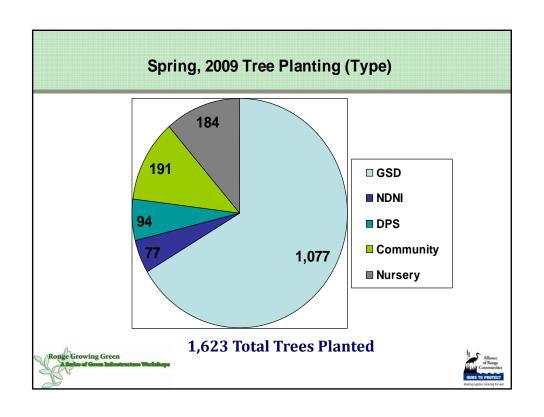


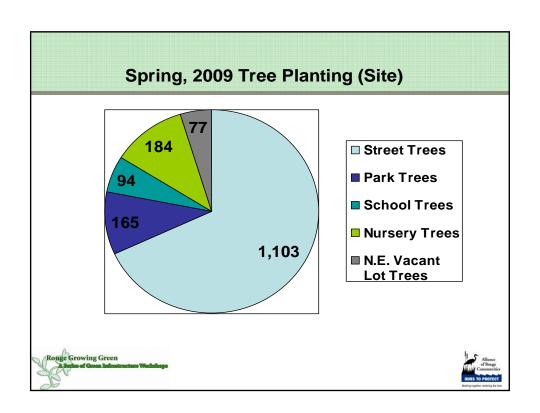
# **City of Detroit Planting Contract**

- Renewed 2-year planting contract with the city (current agreement expires June 30, 2010)
- \$200,000 per year for tree planting on selected streets and parks in order to expedite canopy cover lost due to EAB, DED, neglect and decline
- Planting locations are determined by city forester; species selections are made collaboratively by city forester and the Greening forestry staff
- Current policy promotes: Species diversity by using over 50 tree species with 80/20 ratio of shade to ornamental trees
- Change in city administration may affect contract









# **Species Planted Spring 2009**

- River Birch
- Tulip Tree
- Maples
- London Plane
- Common Hackberry
- 0ak
- Linden
- Elm
- Japanese Zelkova
- Kentucky Coffee Tree
- Hop Hornbeam
- Serviceberry
- Crabapple

- European Hornbeam
- Horsechestnut
- Yellow Buckeye
- Golden Rain Tree
- Dawn Redwood
- Bald Cypress
- Autumn Gold Ginkgo
- Yellowwood
- Eastern Redbud
- Cornelian Cherry
- Ivory Silk Tree Lilac
- Winter King Hawthorn
- Flowering Pear



### Rouge Growing Green

# **Forestry Programs**

- Tree Plantings
- Arbor Day Celebration
- Spring Tree Sale
- Pruning Workshops
- New Professional Staff
- Tree ID Boot Camp
- Meyers Nursery
- Neighborhood Nurseries
- Future Goals & Projects









# **Partnerships**

- 116 block clubs and neighborhood organizations
- 122 Detroit public schools have participated in urban forestry education programs and 263 schools have planted trees
- City of Detroit partnership to plant trees throughout spring and fall

Rouge Growing Green





# **Community Planting**

The Greening of Detroit works collaboratively with hundreds of community partners in Detroit, Hamtramck, and Highland Park to plan, implement, and maintain plantings on public property. Plantings range from "peas to trees" and include street tree plantings, greenways, park improvements, beautification initiatives, and urban vegetable gardens.





## **Partnerships**

- City of Detroit
- Creekside CDC
- Neighborhood Centers Inc.
- Corporations
- Block Clubs
- Greater Corktown CDC
- Detroit Public Schools





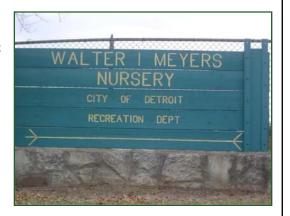






# **Meyers Tree Nursery**

- Contains 125 acres
- Variety of tree species
- Wetlands, grasslands, forested parcels
- Within the City's Rouge Park

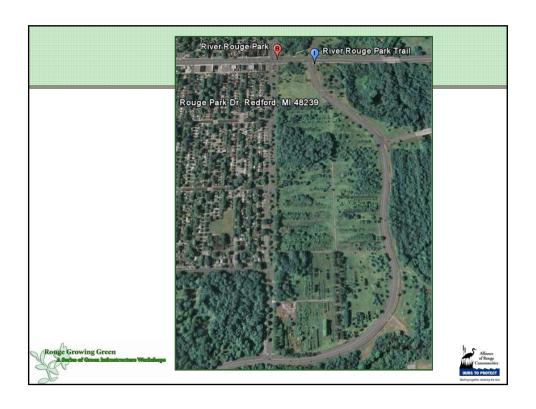




















## Goals of the nursery:

- Provide Detroiters with an efficient, cost effective means to reforest their city & a healthier environment
- Build awareness among residents about Detroit's urban ecosystem and the value of a healthy urban forest
- Expand EAB reforestation efforts
- Train Detroiters in nursery craft as a component of The Greening's green industries workforce development
- Plant 20,000 young trees in the first eight years, growing them for three to five years before out planting them into Detroit's public spaces
- Create a new venue for The Greenings environmental education and interpretive programming
- Provide a productive use for Detroit's Meyers Nursery





















# **Advocacy**

Educate about the important role open space (green space)
plays in a healthy environment and the economic impact of
supporting green initiatives, all with the goal of gaining
greater support for creating and sustaining Detroit's urban
ecosystem.







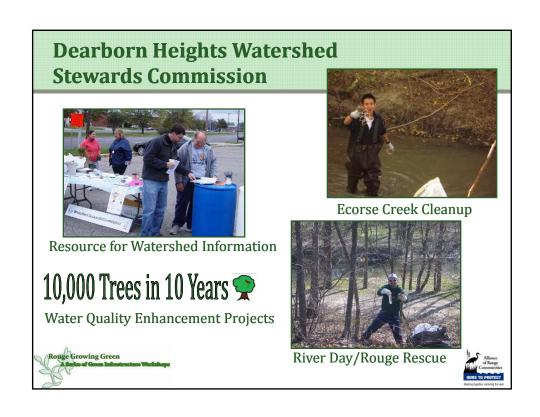




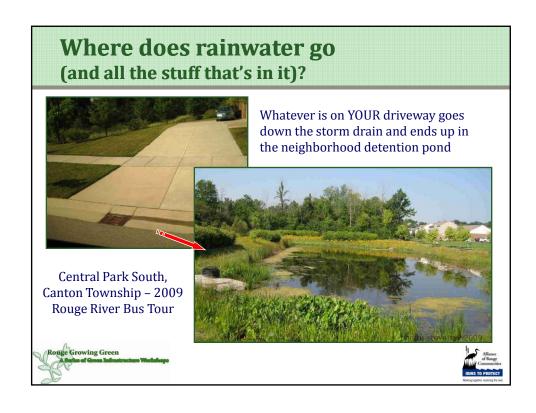


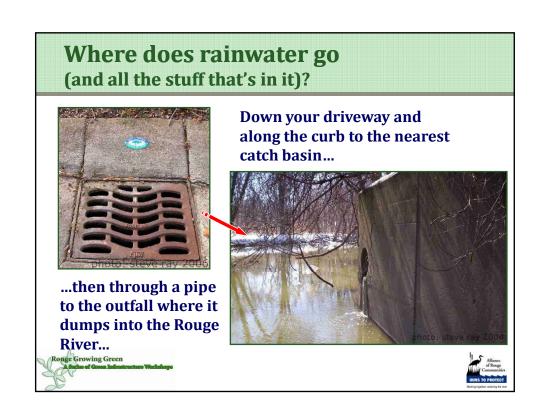


# Stewardship Steve Ray Dearborn Heights Watershed Stewards Commission Rose Growing Green Rose Growing Green

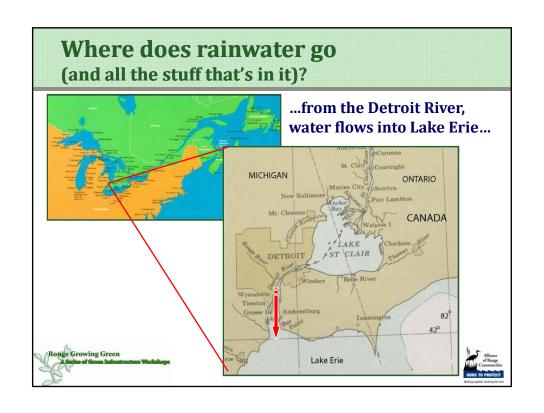


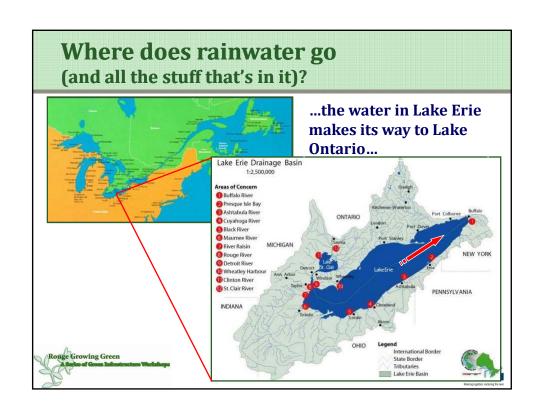




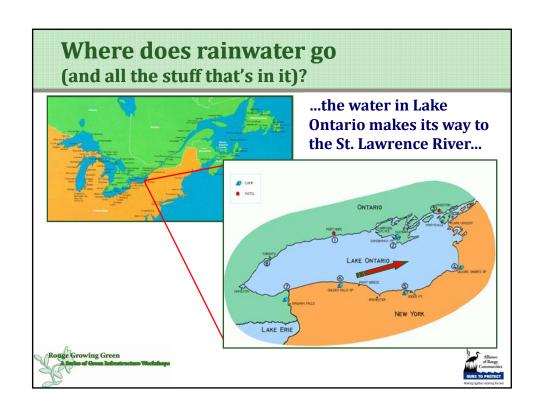


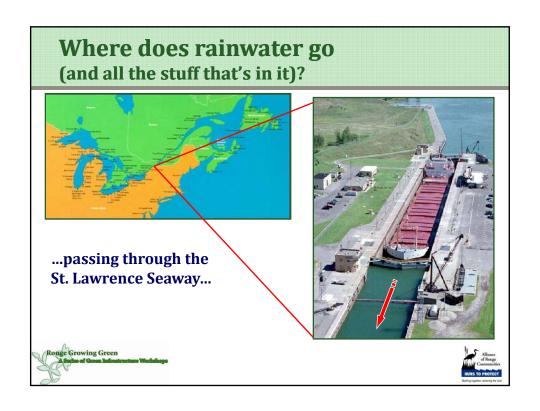


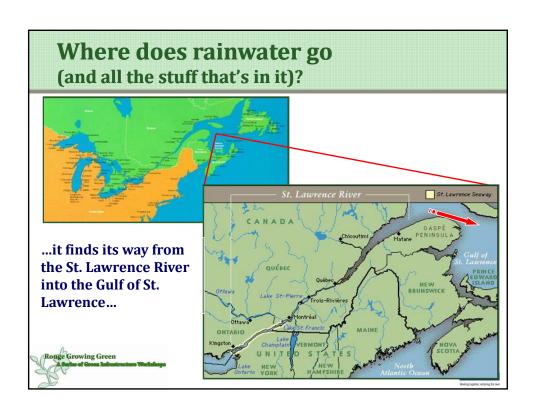


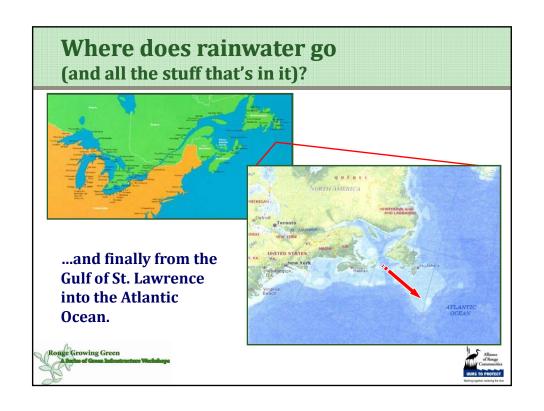


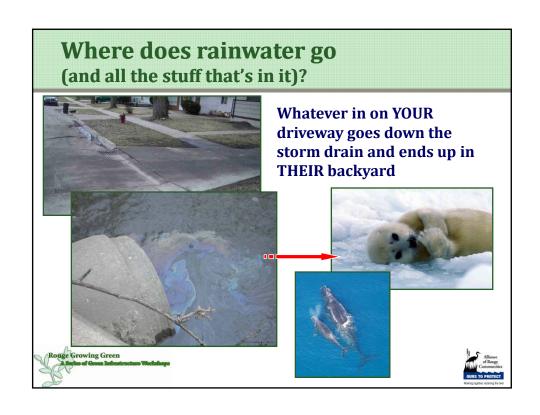


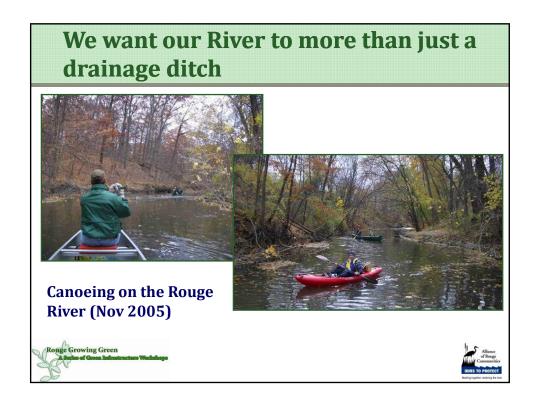








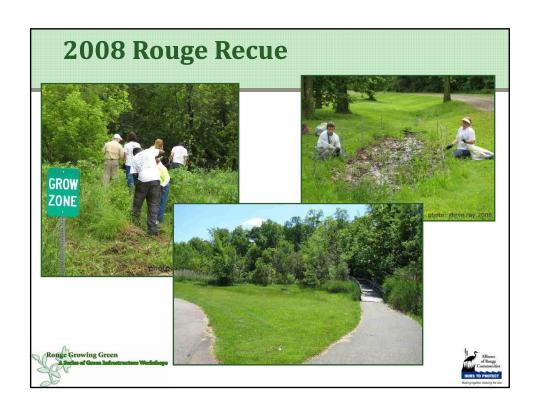






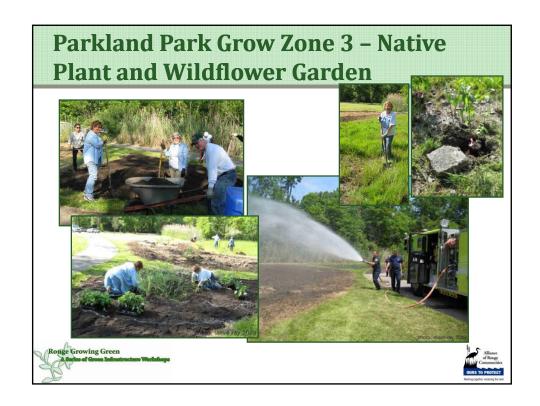












# Stewardship

- Become a Watershed Steward
- Take personal responsibility for your stormwater
- Lead by example
- Focus on what you CAN do (not on what you can't)





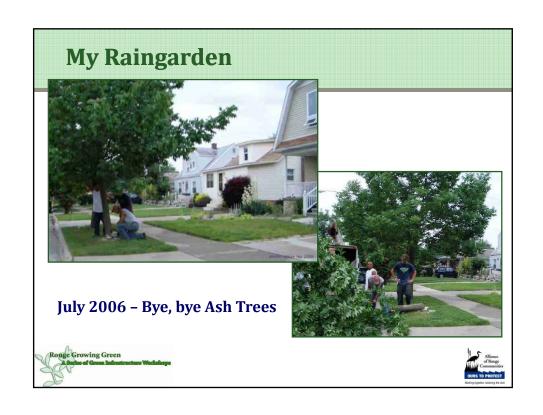


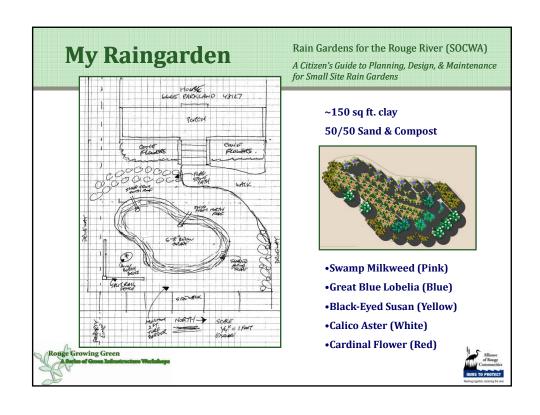
Lawn of the "Successful" American

Rouge Growing Green



















# My Raingarden



Rouge Growing Green

Lot's of new friends



## My Raingarden

#### **Project Stats**

- Established: September 2006
- Time: about 4 days (not including piping)
- Cost:
  - Sand & Mulch (delivered)....\$130
  - Compost (City of Taylor)....\$20
  - Plants (qty=100)....\$125
  - Labor....Priceless

#### **Plant Supplier**

The Native Plant Nursery Ann Arbor, Michigan PH:734.677.3260

# Retail sales conducted at:

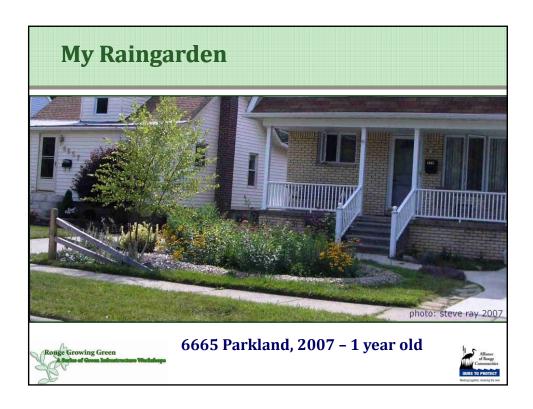
Ann Arbor Farmer's Market 300 Detroit Street Ann Arbor, Michigan

Saturdays, May through July, and September 7:00 AM - 1:00 PM









## **Research: Books**



- Landscaping with Native Plants of Michigan
- Attracting Birds, Butterflies and Other Backyard Wildlife (NWF)
- Gardening for Wildlife (NWF)
- Prairie Moon Nursery Catalog
- The Native Plant Nursery Catalog







## **Backyard Wildlife Habitats**

#### **NWF Certification Criteria**



- Provide elements from each of the following areas:
  - Food Sources Native plants, seeds, fruits, nuts, berries, nectar
  - Water Sources For example: Birdbath, pond, water garden, stream
  - Places for Cover For example: Thicket, rockpile, birdhouse
  - Places to Raise Young For example: Dense shrubs, vegetation, nesting box, pond
  - Sustainable Gardening For example: Mulch, compost, rain garden, chemical-free fertilizer







# Backyard Wildlife Habitats Rose Growing Green Attended for the state of the state

# **Closing Comments**

- Do some research: reading/surfing
- Keep it simple, start off slow
- Make it fun: Enjoy the process and the results







# Thank you!



**Email List:** 

http://groups.yahoo.com/group/dhwatershed/

Email Address: dhwatershed@yahoo.com





Rouge Growing Green

A Series of Green Infractructure Workshops

Rouge Friendly Landscaping: Native Plants for Better Water Quality

