



### Missouri Department of Conservation

### Agency Role



Wood Duck - Forest Park

#### Mission:

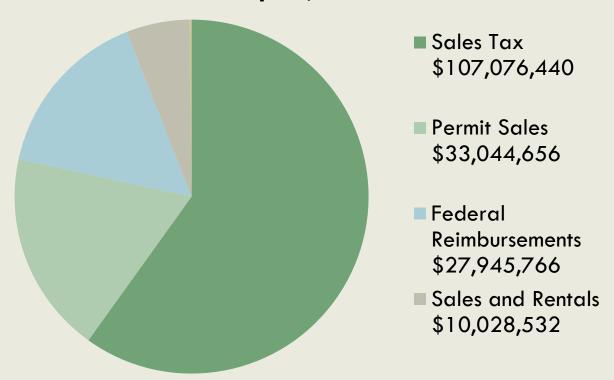
To protect and manage the forest, fish, and wildlife resources of the state and to facilitate and provide opportunities for all citizens to use, enjoy and learn about these resources.



Missouri Department of Conservation

Agency Role

FY14 Receipts \$181,538,651







### Agency Role

Goal 1. Healthy forests, fish and wildlife. Ensure healthy and sustainable forest, fish, and wildlife resources throughout the state.

- Managing natural communities for biodiversity and resilience. Conserve and enhance healthy natural communities that support a variety of plants and animals.
- community conservation. Encourage community conservation efforts and openspace initiatives that provide quality habitats for people, forests, fish, and wildlife.

### **Projects & Programs**

## Agency Role



### Funding & Technical Support

- Community Conservation Grant
- Back to Nature Grant
- TRIM Grants
- Cost Share Program
- Community Assistance Program
- Technical Assistance
  - Urban Foresters
  - Urban Wildlife Biologists
  - Private Land Conservationists
  - Community Conservation Planners

### **Projects & Programs**

Agency Role



### **Outreach & Education**

Discover Nature Schools

- K-12 instructional units
- Teacher training
- Equipment and field trip funding
- 70,000 students statewide

Nature Center & Conservation Areas

Over 900,000 visitors annually

Missouri Conservationist & Xplor Magazines

• Over 1,000,000 readers



### **Partnerships**

### Urban Vitality and Ecology Initiative Tie

- Goal 1: Healthy forests, fish and wildlife.
  - + Managing natural communities for biodiversity and resilience.
  - + Community conservation.
- **×** Goal 4: Citizen involvement/education.
  - + Citizen awareness/understanding of conservation.
  - + Natural resource stewardship ethic.
  - + Citizen support/participation.
- **×** Goal 5: Engage partners.
  - + Partner funding and technical support.
  - + Empower partners to implement actions.





"Help landowners meet their land management objectives in ways that enhance fish, forest, and wildlife conservation."



**Partnerships** 

### **Urban Vitality and Ecology Initiative**

An initiative to connect people to urban natural resources in ways that maximize economic impact and social benefits.

### Major Components:

- + Natural Resource Inventory and Atlas
- + Strategic Action Plan
- + Pilot Projects
- + Milkweeds for Monarchs

### **Expected Outcomes:**

- + Urban residents know and understand the Department
- + Habitat is established and restored in the City
- + Urban residents connect to nature in their everyday lives



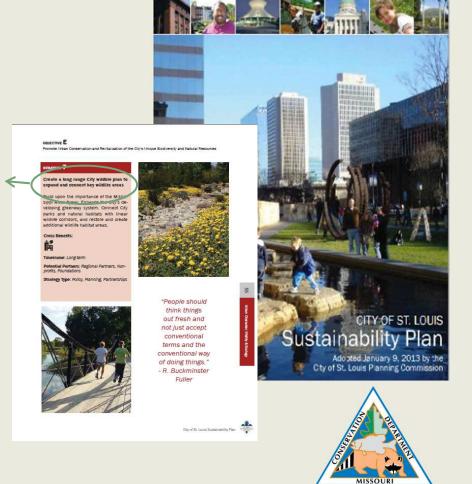
#### Lessons Learned

### Seek Common Ground



e.g. "Create a long range City wildlife plan to expand and connect key wildlife areas."

e.g. "Develop a Citywide strategic plan for maintaining and developing vacant land ... Determine areas to concentrate business, housing and natural resources."



#### Lessons Learned

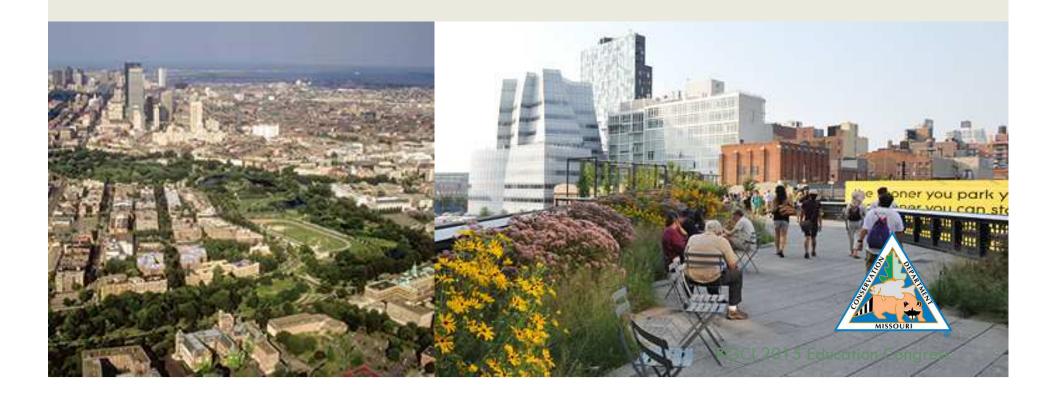




**Partnerships** 

#### Articulate and Illustrate a Vision

St. Louis as new American city: dense, walkable and attractive neighborhoods interwoven with ecologically vibrant open spaces



**Partnerships** 

#### Articulate and Illustrate a Vision

Imagine a St. Louis where . . . restored streams connect people to natural systems, manage stormwater and safely convey stormwater away from residences.





**BGCI 2015 Education Congress** 

#### Lessons Learned

### Seek Balance



#### Milkweeds for Monarchs

#### About the Initiat

The City of St. Louis is laune connect people and urban in Monarcha initiative goals an habitat and 2) help peop monarchs in neighborhood will advance a priority in it Agenda: to foster an enhance urban natural resources. Aco and anxiety, nourish the imiteraring opportunities. STL signs with the City's Sust Creating monarch gardens is a community's sense of p between neighbors.

Mayor Slay has committed t gardens, and is challengir additional 200 monarch ga our 250th birthday year.

In partnership with commun City has created a STL Mor in establishing your monard carefully selected to provide for the butterfiles and your p were chosen to flower at season, offering seasonal or and nector sources.

For updated information on the initiative and to receive recgarden, please visit stouis-



rot ma

#### Planting Your Monarch Garden

#### Supplies

To create a garden, you will need the following:

- Approximately 1 square meter area that is best suited for attracting, hosting and feeding monarchs, with good access to sunlight. One square meter is roughly 3 ft x 3 ft. If you prefer a rectangular layout, it will be roughly 2 ft x 5 ft.
- 1 pot or container of each plant species suggested in the STL Monarch Mix
- Garden trowel or shovel
- · Mulch (optional, but recommended)

#### Instructions

- Divide the area to be planted into nine squares, placing each plant about 12' from its neighbor. A rectangular layout is suggested to the right.
- 2 In the middle of each square, dig a hole roughly 6 inches deep and wide enough to fit the plant plug. A good rule of thumb is to dig a hole slightly larger than the container the plant plug came in.
- Gently break up the roots of each plant plug and place plants in the holes. Fill in lightly with soil.
- Cover the entire monarch garden with a light layer of mulch.
- Water your garden immediately, and then water daily.
- After a couple weeks, water every couple of days. Because these plants are native, once they are established they should only need occasional watering.
- Share a photo of your monarch garden at attouis-mo.gov/sustainability/ so we can track and map the initiative's progress.

#### Reminders

- Do not use pesticides or chemical fertilizers on or near your monarch garden.
- These flowers are likely to bloom at different times, and they may take a year or two to get established.

















 Some plants can grow to be very large, so they should either be placed in the back of the garden or in a location where they can be managed.

Photos courtray of Missouri Deterrinal Gooden and Monarch Web.

Scale Small ← Large

Timeline Short ← Long

Complexity Low ← High

Impact Ephemeral ← Permanent

Risk Low ← High



**BGCI 2015 Education Congress** 

### Lessons Learned

### Seek Balance



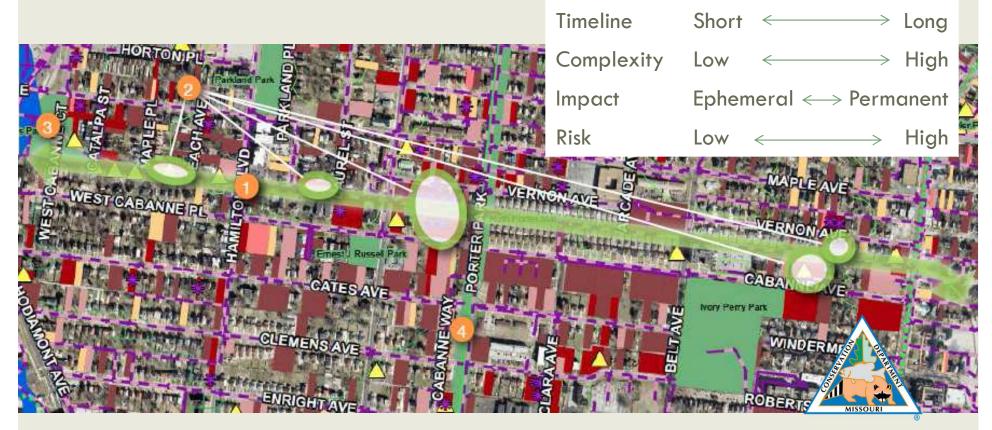
Scale

#### Lessons Learned

Small ←

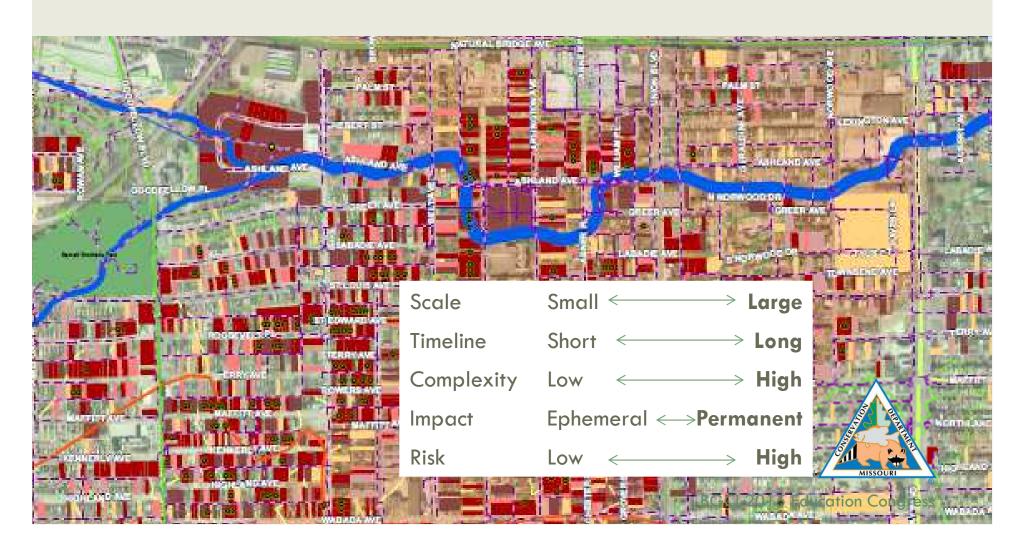
→ Large

### Seek Balance



**Initiative History** 

### Seek Balance



#### Lessons Learned

### Share the Credit and the Limelight





The RainScape Rebates program is funded by Metropolitan St. Louis Sewer District, Mabel Dorn Reeder Foundation, Great Rivers Greenway, Missouri Department of Conservation, participating municipalities, and US EPA Region 7 through the Missouri Department of Natural Resources (subgrant number G11-NPS-15), under Section 319 of the Clean Water Act.



and scalingularly practice regirequality nature reserves for a watching, hiking and quiet contemplation.

#### The Urban Vitality & Ecology Initiative

Seizing the opportunity to better connect people to urban nature will require a bold, long-term vision for the future of the City of St. Louis. The partners engaged with the Urban Vitality & Ecology Initiative will collaboratively develop, and utilimately implement, this vision.

#### This Initiative will:

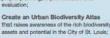
- Advance a process that engages our diverse community, promotes equity and aligns with stakeholder priorities;
- Create a long-term Urban Vitality & Ecology Strategic Action Plan that creates the basis for weil-informed policy modifications and community-based decisions, strategically prioritizes both redevelopment and key natural resource opportunities, and identifies actionable items for implementation; and
- Develop and maintain an Urban Natural Resources and Biodiversity Inventory that reflects natural assets and opportunities in the City of St. Louis.











To build a foundation for a bold, long-term vision for a more ecologically vibrant and vital

St. Louis, the City and its partners with

FY15 Activities

Build Capacity for Long-Term Planning through data analysis, the creation of an inventory of blodiversity assets and opportunities, partnership and relationship development, tundrashing and the pursuit of tools to support long-range goals.

The Linban Vitality & Ecology initiative neffects priorities in the City of St. Louis Sustainability Pietr and Mayor Skyli Sustainability Action Agencia. For more information, with the City's evaluate at <u>affoute-mo-povinustainability</u> or confact Catherine Wierner, City of St. Louis Sustainability Offsector at werner@distore.com.

995 is the additional possible horsess in the City of St. Louis's urban tree canopy as determined by Forest FeLeaf of Mesouri. St. Jin. MO Urban Tree Canopy (UTC) Assessment. 2010.















"Mysterious and little known organisms live within walking distance of where you sit. Splendor awaits in minute proportions."

E. O. Wilson, Harvard University

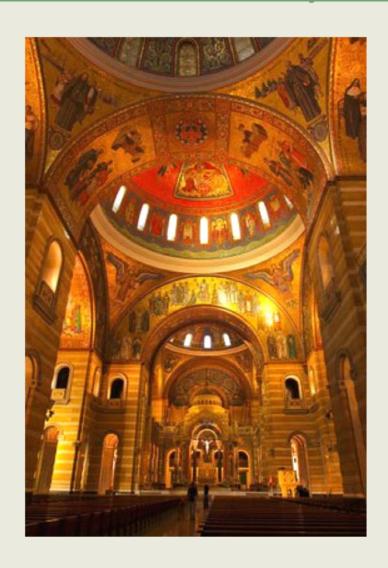


### A muse: Cathedral Basilica St. Louis

- × 1912 mosaic installation began
- **x** 7,000 colors
- **×** 41.5 million glass pieces
- × 78 years in production
- **×** 83,000 square feet . . .

one day and one project at a time.





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