

# NNative Planting for PPollinators

Jen Ehlert, PLA Metro Blooms Design+Build



Adam Heikkila



Metro Blooms is a 501(c)(3) nonprofit organization that partners with communities to create resilient landscapes and foster clean watersheds, embracing the values of equity and inclusion to solve environmental challenges.



Blue Thumb connects
Minnesotans to resources that
help them plant native gardens,
rain gardens, and stabilize
shorelines
with native plants to protect
pollinators and improve water
quality.



Our technical expertise resides in Metro Blooms
Design+Build, a for-profit entity owned by and wholly
supporting the mission of Metro Blooms. Design+Build
provides design, install and maintenance services for
Metro Blooms programs, projects and other clients.



# Steps for a **Pollinator Planting**



1. 2. 3. — 4.

Assessing your site

Making a Plan and Design

Installation

Maintenance



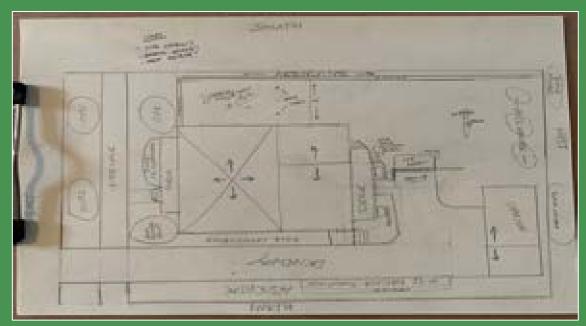


### **Site Assessment**



# Things to consider when assessing a site:

- Sunlight: full sun, part sun/part shade, full shade
- Soil: soil type, moisture, and soil health measures
- Existing structures, hardscapes, vegetation
- Stormwater runoff: flow, standing water
- Usage needs: access, recreation, visibility





# Designing a **Pollinator Planting**



Considerations for a pollinator planting:

- Diversity of blooming plants across the seasons
- Host plants for larva
- Access to nesting sites
- Low chemical input



Aleli Balagtas



# Designing with native plants



- Native plants are resilient!
- Choose the right plant, for the right place:
  - Sun/shade
  - Soil moisture
  - Plant height





# **Designing with Trees** and Shrubs



- Trees can provide: structure, layers, early blooms, shade, wind screen
- Trees and shrubs are important host sites for many lepidoptera, and provide early forage for pollinators in spring
- Lower maintenance pollinator-friendly planting



Mall Apartments

Design Styles

# Plant Massing: Sunny Sites

Species planted in groups for visual impact

Clumps of 3, 5 or 7 plants Also helps identify plants during garden maintenance

#### Benefits pollinators

Large groupings of blooms provide forage throughout the season But don't forget to plant diverse species!







#### Design Styles

# Plant Massing: Shady Sites



- Texture helps add definition while plants are not blooming
  - Texture can be created with leaf shape and color variation
- Spring blooms great early-season interest!





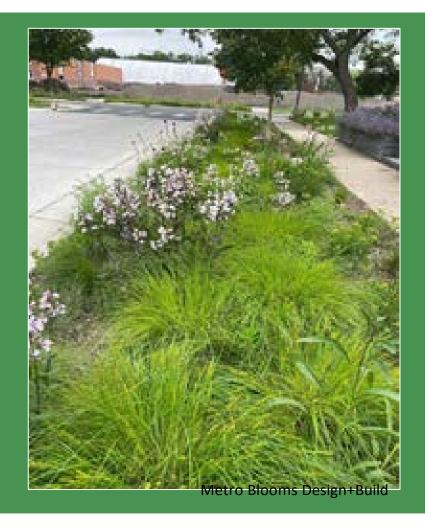


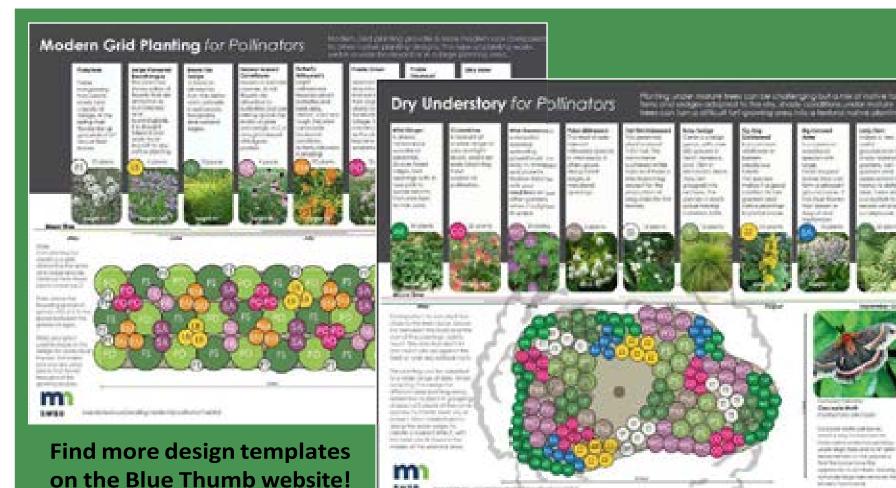


# Design Styles Matrix Plantings

- Useful in large planted areas
- "Matrix" of primary plant-
  - Sedges for wetter areas
  - Grasses for drier areas

... interspersed with scattered flowering native plants





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### Installation



- Remove any existing turf, weeds, or invasive plants.
   Common methods include hand digging, sheet mulching, and solarization.
- Protect bare soil by mulching with double-shredded hardwood mulch.
- Lay out your plants before putting them in the ground so that you are happy with their spacing.





### **Landcare for Native Plantings**



- Water at least 1" every week for the first 2 growing seasons
  - It is better to water longer, less often to encourage long roots
- Weeds are easiest to manage when they are small
- Edit your garden
  - Replace plants and mulch as needed
  - Divide, transplant, thin





# **Landcare for Pollinators**



- Create overwintering areas by waiting to clean up until spring.
  - Wait until average temperature is
     50 degrees, or when dandelions
     begin to blooms

- Avoid using fertilizers, herbicides, and pesticides
- Create a small, shallow water source



# **Landcare for Pollinators**

- Leave plants standing in the fall
  - Hollow/pithy stems provide nesting sites for stem-nesting bees
  - When you cut plants back, leave18" remaining
- Leave the leaves! Many of MN
   pollinators overwinter in the leaf litter

HMMM...WHAT'S BEING

AWAY TODAY?

Credit: Leslie Nelson Inman, Facebook-Pollinator Friendly Yards



# **Support communities planting** for pollinators!



- Lawns to Legumes Grant
   Program anyone living in MN can apply!
- Grant programs require use of native plants
- Work with local governments to support native plantings in ordinances
- Share resources for the DIY gardener Bluethumb.org





#### Resources

# Resources available on the Blue Thumb Website:

Native plant nursery list
Design templates
Plant lists
Plant Finder
Step-by-step project
guides

Blue Thumb Partner

Finder

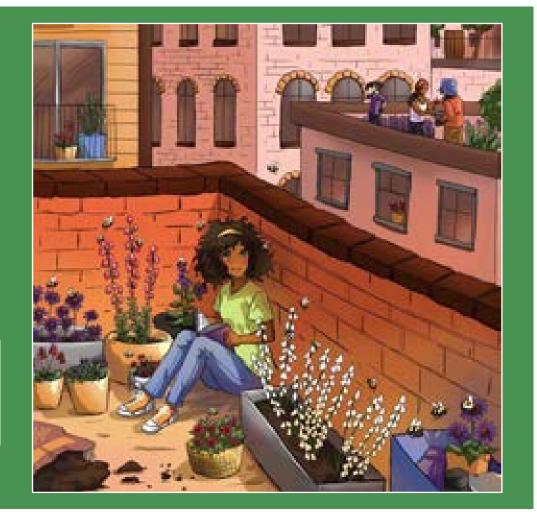






GROW, BLOOM, INSPIRE!

Thank you!





### Pollinator Conservation in Minnesota

Christina Locke | Pollinator Conservation Coordinator, DNR



# So many groups working on pollinator projects









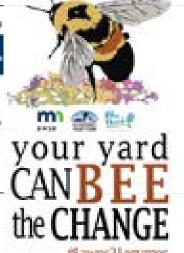




Bee ID

What kind of bee did I see?









Cross-agency collaboration

Internal DNR policies

Habitat projects

Research

# Pollinator conser

### tion at the DNR

### Cross-agency cc

#### STATE OF MINNESOTA

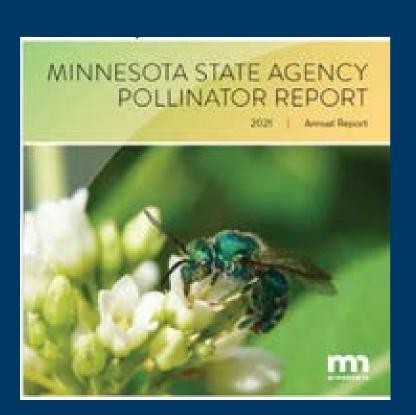
Executive Department



#### Governor Tim Walz

Executive Order 19-28; Rescinding Executive Order 16-87

Restoring Healthy, Diverse Pollinator Populations that Sustain and Enhance Minnesota's Environment, Economy, and Way of Life





# Cross-agency collaboration

### **Internal DNR policies**

#### 2024 Minnesota Statutes





#### 84.973 POLLINATOR HABITAT PROGRAM.

- (a) The commissioner shall develop best management practices and habitat restoration guidelines for pollinator habitat enhancement. Best management practices and guidelines developed under this section must be used for all habitat enhancement or restoration of lands under the commissioner's control
- (b) Prairie restorations conducted on state lands or with state funds must include an appropriate diversity of native species selected to provide habitat for pollimators throughout the growing season.

History: 2013 c 114 art 4 x 12





Photo credit: Jessica Petersen

### **Pollinator Best Management Practices** and Habitat Restoration Guidelines

SHORT TITLE: POLLINATOR BMPs

#### Overview

Insect pollination native to Minnesota include hundreds of species of bees, butterflies, moths, flies, and binetter. In months author from Bound to Empley milliontors vid about expendication and bala series to

Cross-agency collaboration

Internal DNR policies

**Habitat projects** 



Cross-agency collaboration

Internal DNR policies

Habitat projects



Cross-agency collaboration
Internal DNR policies
Habitat projects

Research





Cross-agency collaboration

Internal DNR policies

Habitat projects

Research

Outreach





# What is a "pollinator?"



**Pollinators** aid plant reproduction by moving pollen from flower to flower.

Many flowering plants need help from animal pollinators to set seed or produce fruit, while others rely on wind, water, or gravity.

# What is a "pollinator?"

5% of flowering plants are dependent on animal pollination Most animal pollinators are insects, particularly **bees**We know very little about most insect groups

Hummingbirds and many types of insects eat nectar or pollen, and may transfer pollen among flowers as they forage.



Honey bees live in colonies that can be moved to farm fields and used for crop pollination.

Managed honey bees are considered non-native livestock in the U.S.





Bees are perfectly designed to collect pollen for their young. Minnesota is home to over 500 bee species.



# What is "pollinator habitat"

Non-compacted soil
Dead wood
Leaf litter
Pithy/hollow stems
Native grasses

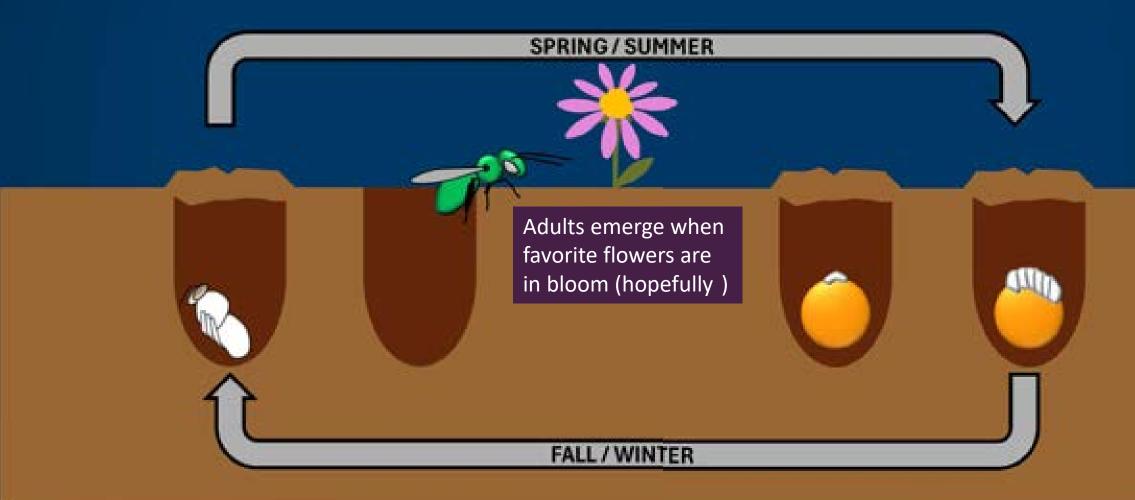
Leaves
Slopes
Vacated birds' nests
Vacated rodent
burrows





# Timing matters

Minnesota is home to over 500 bee species. Most are solitary nesters.



# What is "pollinator habitat"

Blooming plants from spring to fall
Native perennial plants including specialist host plants







ctober

April













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B. Andropegen engeries.

C. Andrepress suresis.

### vviiy nauve perennais

Water storage
Carbon storage
Soil health
Bank stabilization
Erosion control
Water quality

# Why not ornamentals cultivars



Inaccessible



Novel color



Pollen quantity quality? Nectar availability?

## Native plants: where to start

### Planting Perennials on Your Shoreline

Disproline suspication provides printed hybrids for some of Minnapolate most important plants and arimals. It shados the votes; buffers neve action, litters is notify. statisfies arealing theres, and presented the source physician of pur subsets.

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### Planting Trees and Shrubs on Your Shoreline

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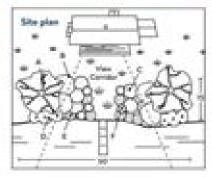
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- The Property Street A. Red other dispersed
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### Make a list of the scientific names





www.minnesotawildflowers.info

## Where to buy

### Native plant suppliers, landscapers, and restoration consultants for Minnesota

Recommend a business by emailing.

NativePlantSypoters.dordistate.mn.us 63:

Please include the business name, URL, and contact person's name and phone number in your message.

### Native plant suppliers and landscapers lists

The DNR maintains a list of native plant suppliers and consultants for Minnesota. Companies must certify that they sell Minnesota native plants sourced from the state, do not sell invasive or noxious plants, and/or have experience as a native plant consultant or habital restoration specialist. Consultants who do not meet this criteria are excluded from the DNR's list.

Some nurseries on these lists sell a mix of Minnesota native, non-native, or horticultural varieties of plants. Minnesota wildlife -including polinator species- benefit most from Minnesota native plants because they developed together. To find out what is native to your area, visit the DNR's MN Taxa Plant lists, or the MN Wildflowers serbote CC. Northwest

Central

South

COOK to entarge map.

Lists of native plant nurseries and native vegetation consultants are organized by regions of the state. Lest updated March 2024.

- Borthwestern Minnesota (PDF)
- Northeastern Minnesota (PDE)
- Central Minnesota (PDE)
- Southern Minnesota (PDF)
- Interactive map of midwest native plant and seed sellers

Native plant suppliers, landscapers, and restoration consultants for Minnesota Minnesota DNR

Make a list of scientific names

Find vendors that use full scientific names that match your list (e.g., *iraea alba*)

Be skeptical of substitutions

Avoid any with cutesy or trademarked nicknames, or signs of hybridization ("x", "variety", "hybrid", etc.)

- **Section** Salsa Red
- Monarda 'Sugar Buzz Bubblegum'
- Heuchera x 'Forever Red'
- Lonicera x brownii



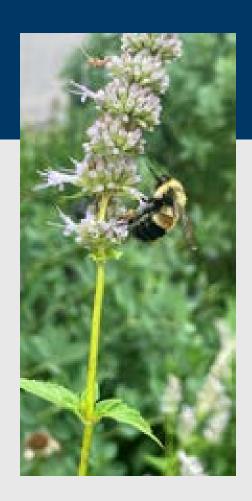
## Thank You!



### **Christina Locke**

christina.locke@state.mn.us

mndnr.gov/pollinators





# Carlton Soil and Water Conservation District A Pollinator Powerhouse!

Alyssa Bloss
District Manager
Carlton Soil & Water Conservation District







### What is a SWCD?

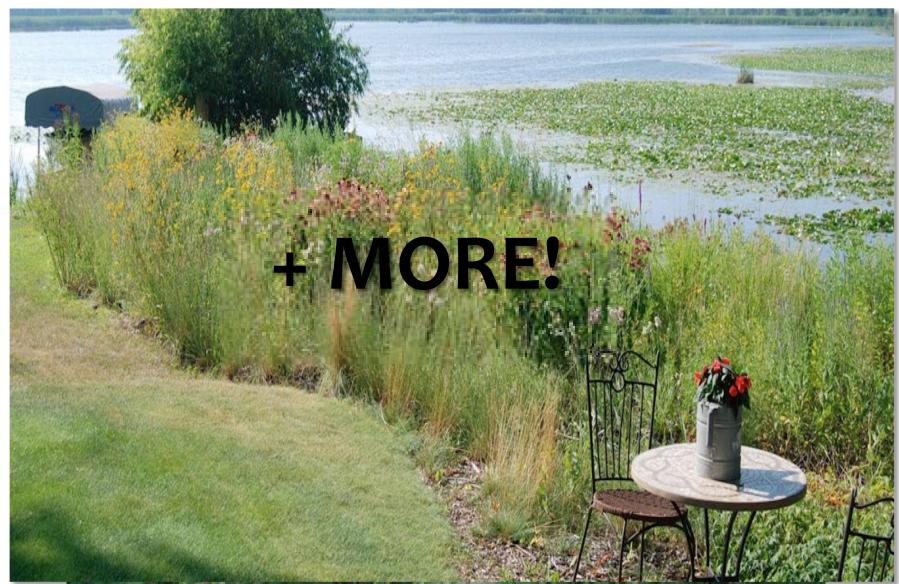


### **Local Government Unit-Governed by local leaders!**

- Minnesotans count on SWCD technical assistance with conservation practices to protect our state's great natural resource treasures!
- Manage and direct natural resource programs and practices at a local level
- Boots on the ground conservation with private landowners, public land partners, schools, churches, cities, and other great partners!
- Receive funds from many sources
  - State dollars passed through the Board of Water and Soil Resources
  - County
  - One Watershed, One Plan (1W1P) Nemadji, Kettle River, St. Louis
  - Federal grants
  - Clean Water Funds
  - Other grants



## What is a SWCD?



### A Pollinator Powerhouse:

### Carlton SWCD Native Plant and Pollmator Program



The Continui Soil and Warter Conservation Tretriet (SoCP) is subtreeting with Saulavaners, ethics, sclouds, the community and other proprietations to hereane diverse food sources, Indetect, and corridors for tire endangered Resty Terrined Shortdrives, Manurale Shorterfly, and other Prosefficial Insures.

### What does this program do?

- Treviles up to 100% finding assistance to integrate polloater projects into the landscape.
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- Macrosomore state
- Trajects son be rainiperdent, softwater gurdons, pullmater staudium, less branes, and pollmater. strictly bellin.

#### How the SWCD can lester.

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- Depays provided winterservice plants. busical on proport quality with skowstoneing Works spring through Sall tinet issuefit sullisations.
- . The no to 100% of sects for plantings!
- Materialistic and advice in what to expect. in the firture will also be provided.

### Why does this matter?

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#### Trolling trees, also technical

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Additional Enforcements

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### Top 50 partive plants for Northcostone Winnesota

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Selfit, Land to Layers

Brief Schrift (Stanformanian)

Applications.

## Native plants for projects!

| Non-Mative                 |
|----------------------------|
| Plantings                  |
| Not from NA                |
| Fertilizer/Mowing/Watering |
| High maintenance           |
| Insecticides               |
| Shelter and Food           |
| (hosts many non-native     |
| species)                   |
| Do well in disturbed soils |
| One color/Short-lived      |
| Shallow Root Systems       |
|                            |

Purple Prairie Clover



Little Bluestem



Purple Coneflower



Indian Grass



**Butterfly Milkweed** 



Side Oats Gramma



Smooth Blue Aster



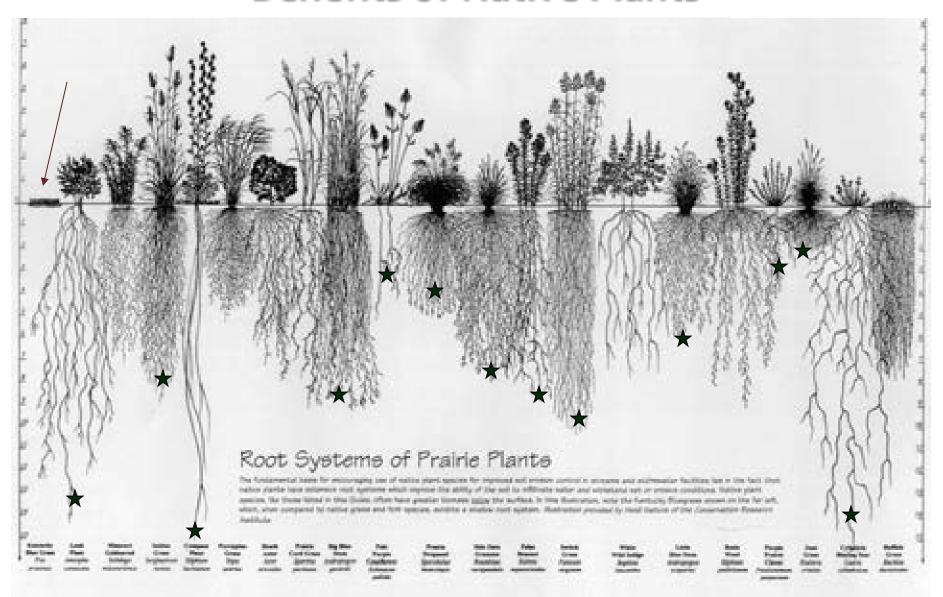
Black Eyed Susan



Wild Bergamot



### **Benefits of Native Plants**



Conservation Research Institute and Heidi Natura

### **Benefits of Native Plants**

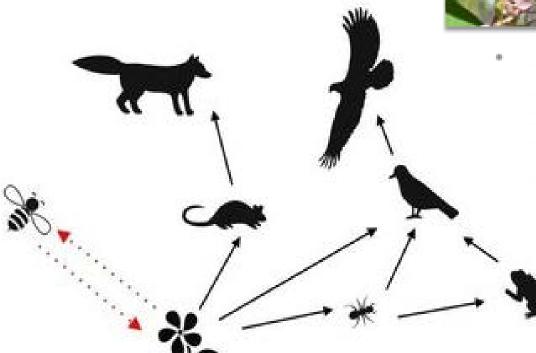






Pollinators are Keystone Species

>85% of world's 352,000 plants depend on insects for pollination



One in three mouthfuls of food & drink require a pollinator!



## **5 Steps to Help Pollinators**



1. Plant NATIVE pollinator PLANTINGS

2. Create DIVERSTY of BLOOMS Spring-Fall

3. PROTECT Nests and Egg-Laying SITES

4. LEAVE overwintering HABITAT

5. DON'T Use Pesticides

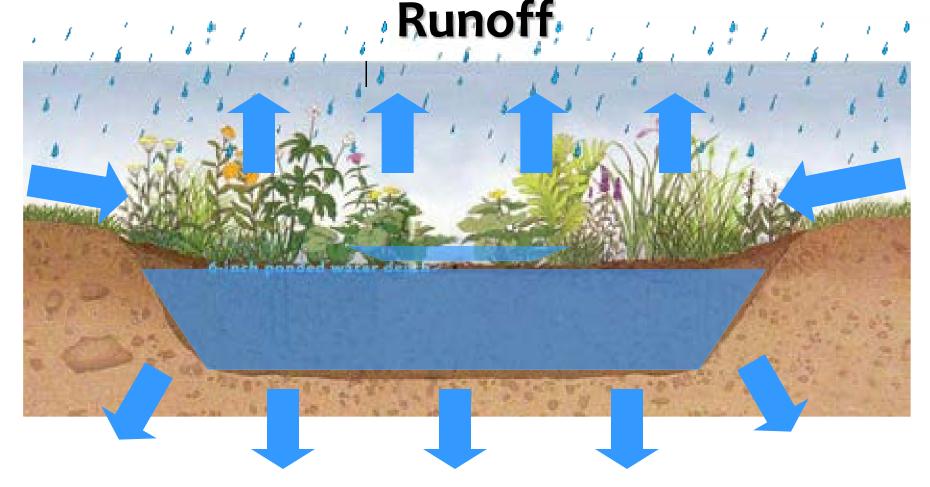


## **Pollinator Raingardens**

- Shallow (9" to 12"deep) depressions
- Surface should be dry in 48 hours (or less)
- Soil amendments sometimes needed (compost and/or sand)
- 3" Double Shredded Hardwood Mulch
- Planted with deep-rooted plants (natives work best)
- Design as a landscape feature ("natural", formal, or in-between)
- Design to integrate into existing landscaping
- Select plants to attract wildlife



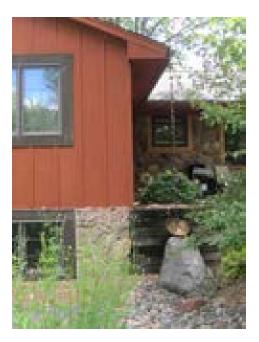
## Capture Rainwater and Stormwater

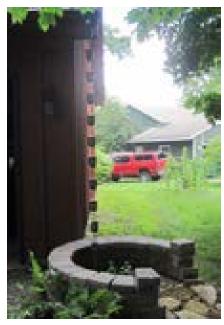


Just like a traditional flower garden, but able to <u>absorb</u> runoff and <u>break down pollutants</u> + <u>POLLINATOR HABITAT!</u>



## **Be Creative!**















## **Pollinator Raingardens**





www.bluethumb.org

## **Pollinator Raingardens**





Before After

## **Pollinator Meadows**







## **Pollinator Pockets**

BEFORE

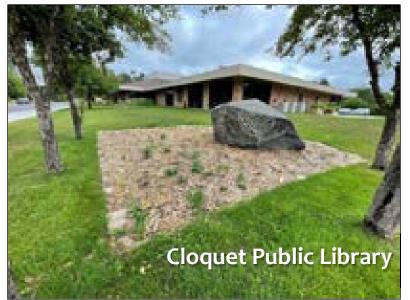


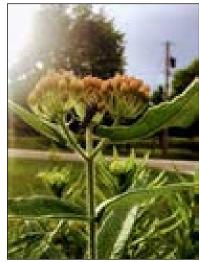
Photo: Projects completed by





## **Pollinator Pockets**













## **BEE LAWN**

Integrate into existing lawn
OR
start fresh!

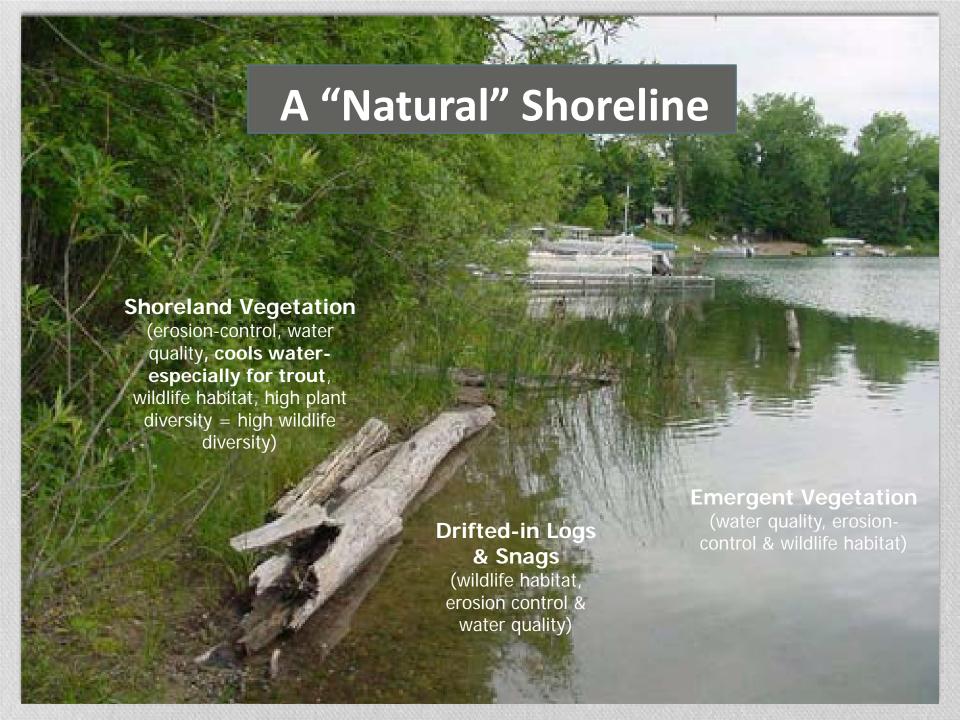


## **Native Shoreline Buffers**











### Why a Vegetated Shoreline!

Relatively inexpensive

Plants filter out pollution before it reaches the water

Attracts pollinators

Flowers add color, natural beauty

Adds privacy

Plants take up excess nutrients reducing algal blooms

Long rooted plants help decrease erosion and flooding

Vegetation discourages geese from congregating

Plants provide oxygen for fish

Aquatic vegetation slow down incoming waves

NATURAL SHORELINE IMPROVES OVER TIME MORE PERMANENT FIX



But....

PATIENCE!

**Seeding: 2-3 Years to Establish** 

Live Plants: Instant color, but not as diverse

## Stabilizing the Slope Rock Rip Rap

More \$\$\$

Doesn't filter pollutants

Creates "unnatural" shoreline

Requires maintenance not a permanent fix

Sometimes rock is needed to combat:

Wave action

Ice heaves

Steep slopes

Fluctuating water levels



# Stabilizing the Slope Coir Logs

Stabilizes slope and prevents wave action until vegetation is established Coconut and jute fiber 100% bio-degradable 2-5 year lifespan Able to plant vegetation directly into log for extra stabilization Encourage sedimentation and re-vegetation





### **SWCD** Assistance

Site visits and technical assistance is free Survey, design, cost estimates, contractors provided Cost share and grants!





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### Project Area Concept:East of dock



**Current Condition** 



Native Shorefine Planting with Eowers, grasses, and sedges

### Project Area Concept:West of dock



**Current Condition** 



Notive Showine Planting with fowers, grasses, and sindper

### **Realtime Landscaping Architect**



### **Native** Seed Mix



MNL Laborations Min.

STACE THE SHOP INC. O'S UP. AND STREET

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|               | For projects   | Free Bluegonn                   | 100   | 18.00  | 3.34  |                   |
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|               | Carrie anigorie  | Brown Series                    | 8.00  | 11.00  | 3.79  |                   |
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|               | Scotlant regardensis   | Windgrann                       | 9.00  | 35.86  | 1004  |                   |
|               | School Religion  | Real Balliate                   | 79.00 | 3.91   | 1.86  |                   |
| Parks         | Access americana   | Sweet Flag                      | 1.00  | 100    | 0.04  | Barrier .         |
|               | Anne subsentation  | Acceptage States Phartists      | 1.00  | 4.60   | 1.31  | Burney            |
|               | Associates Nutrinos  | Future Professor                | 1.50  | 5.76   | 0.71  | Townson.          |
|               | Americana carracterism   | Conside Name (1999)             | 1.00  | 125    | 0.07  | Busing            |
|               | Authoritis Incaments   | Should Milhorad                 | 1.00  | 130    | 9.00  | Berner            |
|               | Chamieron provintenam  | Proposed                        | 10.00 | 1.00   | 3.48  |                   |
|               | Extraction management  | Just Plat Wood                  | 1.00  | 3.00   | 3.77  | Summer            |
|               | Eupholym perforance:   | Browniad                        | 9.96  | 1.00   | 0.04  | Poli              |
|               | Charles of the State of the Control  | Street, several control of      | 0.00  | 140    | 464   | Post .            |
|               | THE OWNERS OF THE PERSON NAMED IN  | Smothern Store Flory Iring      | 196   | 8.76   | 197   | Seeding 1         |
|               | Lattice processing and the   | Frame Missing Stor              | 1100  | 1.07   | 0.74  | Bernette .        |
|               | Lotteria cardinale   | Cardinal Princer                | 1.76  | 1.00   | 9.00  | Burner            |
|               | Comme application  | Construction Construction       | 1.75  | 3.00   | 0.00  | Bulleton          |
|               | Minutes regions  | Markey Flower                   | 6.26  | 14.79  | 3.44  | Burney            |
|               | Physiologia (registeria)   | Charles Fort                    | 135   | 4.07   | 1.00  | Burney.           |
|               | Pulmentherium deplearum  | Washing Mark                    | 0.40  | 1.04   | 0.68  | Bulleton          |
|               | Planta Marria  | Emports Roses                   | 1396  | 1.75   | 0.00  | Butteries         |
|               | Nomingo ristorio   | Politically Continued           | 128   | 1.96   | 0.09  | State of the last |
|               | Name and Administration  | Goard Buttoard                  | 1.60  | 100    | 0.36  | September 1       |
|               | Surednestrature cooperanation  | Reine Directored Reiner         | 1000  | 1.30   | 0.74  | ALC: UNKNOWN      |
|               | Treatment Association  | Albert Verreight                | 2.00  | 4.39   | 10.74 | Barrier           |
|               | Comments formatished   | Personnel                       | 200   | 1.33   | 0.74  | Barrier .         |
|               | Versensetten vognessen   | Cutions's Read                  | 3.25  | 3.36   | - 846 |                   |
| 25.000        | And the same of th |                                 | 100   | 144.10 | 100   |                   |



### LIVE PLANTS

- **Community Habitat Program in partnership with MNL**
- Largest sale in MN since 2020
- Restored over 300 acres!









### NATIVE PLANT KIT & SEED MIX SALE

THE LAST DAY TO PLACE ORDERS IS AIME TO 19895

### Native plant kits

Plants active from the greenhouse in 4-ineth planter phose flats of 56 plants insix species. Plant for mospichs, songhords, politicature, shedy areas, piose multith guerdame, dater resignancie, buckelores replacement, sale quelless and aboration patternions.



#### Native seed raixes

fixed mines are available for polimeters. stonghische, mantageibe, buckfloore replicament of a bea-blandy lased

#### PLANT NOOR

Sees 1770, 1885 Curitos County Transportatus Building (1980) Ch. Rei St., Christia, MW.

ROFR ONLINE AT CARL TONSWICE ORG/STORE 08/CALL 219-384-3891



### POLICE MARKETING THE ARREST RECEIVE Shoreline Stabilization Kit

Harlifolia Lake artificat select Matter Plants in this lift predeep stocked, was built upoches to help prevent exteriors. Desarrottens: allong large bodies of system Blowns during all seasons. offer food source for politicious in well Plant swill much

These 36 plant plays include 5 species of native Rosens. and I sedge Swamp Millswand, Blos Flag Mt. Flat. Peopped Aston, Commun. Bush, New England Autor, Great

Miles trabelles, Educationes: Species, may be subject to subst-Earth on displaced log-lan-manufacturing.) Quantity

Covers 150 reports first with 42-16 inch specing.









Block Physics



#### CARL STAN SAME AS MAJORITORIST PROGRAMMENT AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION

was not been approximately to the last last two participations.











# Stabilizing the Slope-Coir Logs









# 10 years after coir logs installed!



### Maintenance

#### **Seed-PATIENCE!**

1<sup>st</sup> year....They sleep 2<sup>nd</sup> year....They creep 3<sup>rd</sup> year.....They LEAP!!

# Live Plants Watering

Young, establishing plants need 1 inch of water/week

Water around the base of the plants using a hose

Supplemental water may be needed during dry periods

### Weeding

Mark each plant with popsicle stick etc. for easy ID

Check garden monthly for weeds
The native plants will eventually become
established and take over habitat

#### Operation and Maintenance Plan: Natural Sharelina Restauptions

Lookson Lookson

All projects require some making many place languagementation. Someone comparison is written, and many require register different making many months from what are found tone. This improved many final projects from height parts and extracted point of the contempt making many artistics that many is secretar on poor propert. Project some property or appropriate and the contempt of administration of the contempt of the contempt

#### BACKS.

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## Save the stems!

High value pollinator plants

Provide food for one or more specialists – over 90% plant feeding insects are specialists!

Provide nesting resources Stems, leaf tissue, etc.





Inside the stem: adults in spring





## Bee nests leaves and Petals!



## **Creating Nesting Habitat**



#### WINTER

Leave dead flower stalks intact over the winter

#### **SPRING**

Cut back dead flower stalks. leaving stem. stubble of varying height. 8 to 24 inches, to provide nest cavities.







New growth of the perennial hides the stem stubble.



Bee larvae develop in out dead stems during the growing Season.









## **Funding & Cost-share Assistance**

Cost-share assistance dependent on

Natural resource or conservation concern

Cost: Benefit

Feasibility

**Available Funding** 

**Approval** 



## Thank You!

Alyssa Bloss- Carlton SWCD
District Manager
(218) 384-3891
alyssa.bloss@carltonswcd.org

Questions?