



Practical Ecological Gardening





Home » Biology » Ecology » May 17, 2017

Bumblebee populations higher in Detroit than in some less-urbanized areas; vacant lots could be a factor

May 17, 2017



Image credit: Wikipedia.

A new study of native bumblebee populations in southeastern Michigan cities found, surprisingly, that Detroit has more of the large-bodied bees than some surrounding, less urbanized locations.

The University of Michigan students who conducted the study suspect that the

Featured

Last comments

Popular



Mining the moon for rocket fuel to get



Plant choices Landscape Design Maintenance Practices

The background image shows a close-up of a flowering plant. It features numerous small, five-petaled white flowers with prominent yellow-green centers. These flowers are interspersed with small, rounded, reddish-pink leaves. The overall texture is dense and vibrant. A semi-transparent grey rectangle is overlaid in the center, containing the text 'Plant choices'.

Plant choices







Observations



Hepaticas

Location

Go

Filters

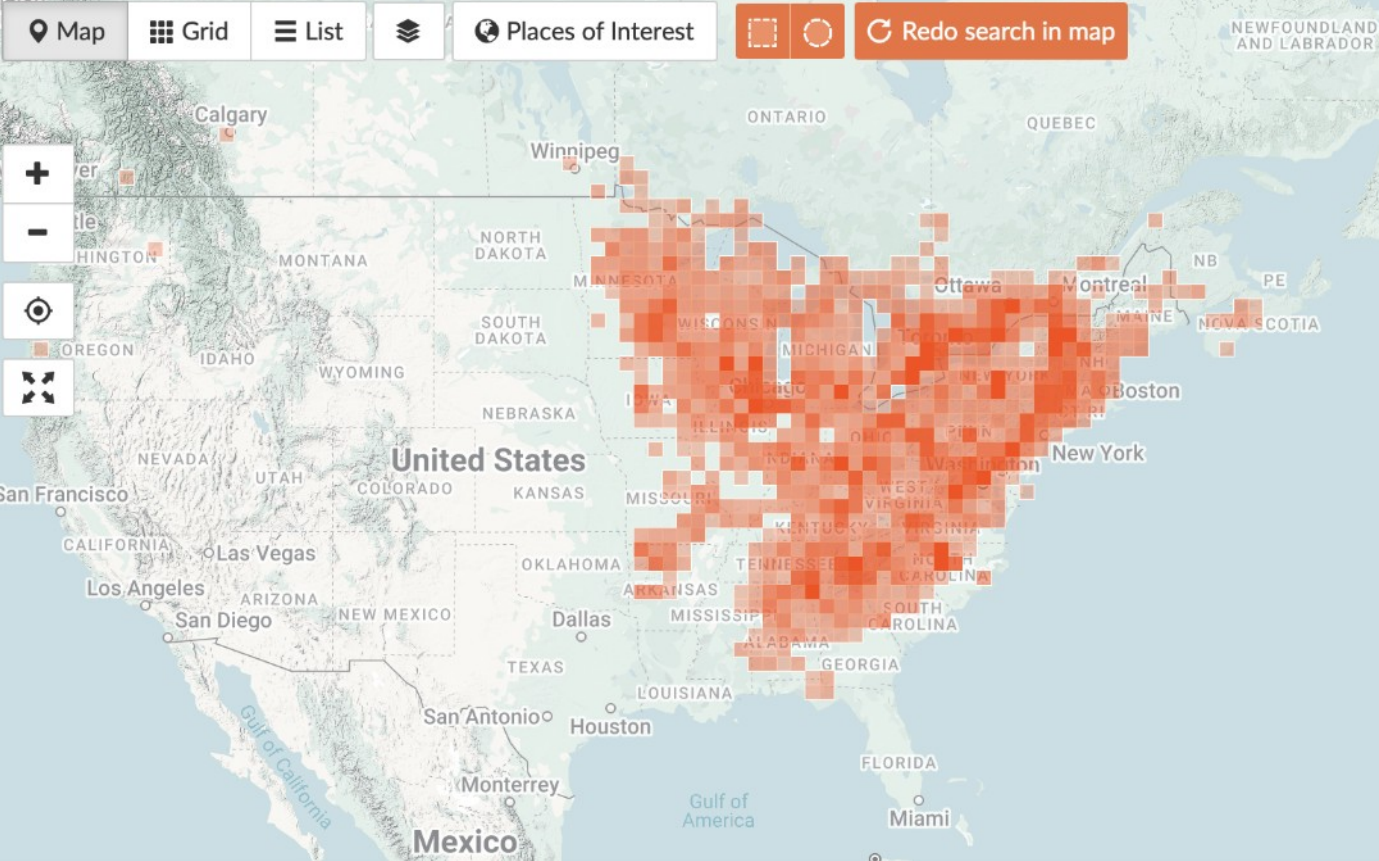
The World

79,124
OBSERVATIONS

10
SPECIES

5,620
IDENTIFIERS

30,765
OBSERVERS



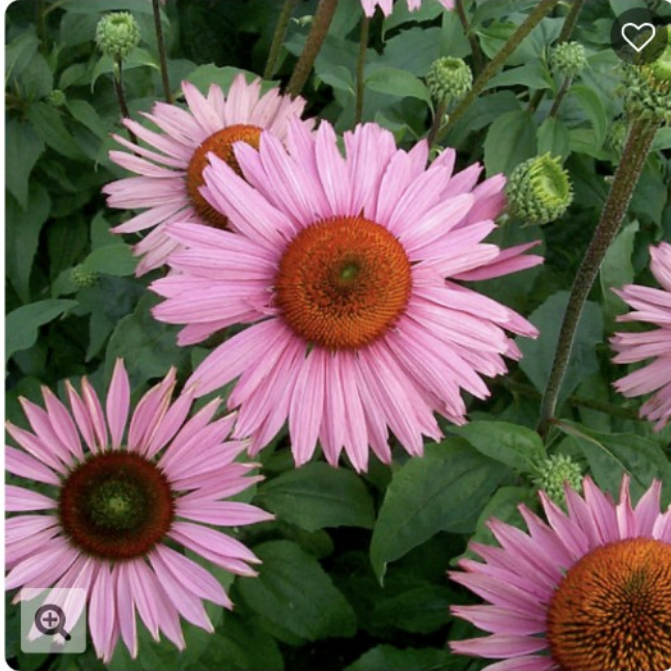
- Liverleaf**
(*Hepatica nobilis*)
Josefsdorf, Wien,... • Today
1 14h
- Liverleaf**
(*Hepatica nobilis*)
Uusimaa, FI-ES, FI • March 2025
1 Mar '25
- Liverleaf**
(*Hepatica nobilis*)
675 55 Krhov-Hroto... • Today
1 14h
- Liverleaf**
(*Hepatica nobilis*)
34, 9161 St. Ulric... • Today
1 14h
- Hepaticas**
(Genus *Hepatica*)











'Ruby Giant' Coneflower

Echinacea purpurea

★★★★☆ (2)

Exposure



Part Sun to Sun

Flower Season

Summer

Fall

Mature Size



Set your location to see online pricing & local availability



Share this product



Intentional Selection

Intentional Selection

- Large flower size

Intentional Selection

- Large flower size
- Heavy blooming

Intentional Selection

- Large flower size
- Heavy blooming
- Compact growth habit

Intentional Selection

- Large flower size
- Heavy blooming
- Compact growth habit
- Novel colors

Intentional Selection

- Large flower size
- Heavy blooming
- Compact growth habit
- Novel colors
- Doubling

Unintentional Selection

Unintentional Selection

- Transplantation tolerance

Unintentional Selection

- Transplantation tolerance
- Rapid, uniform germination



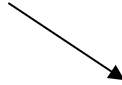
Unintentional Selection

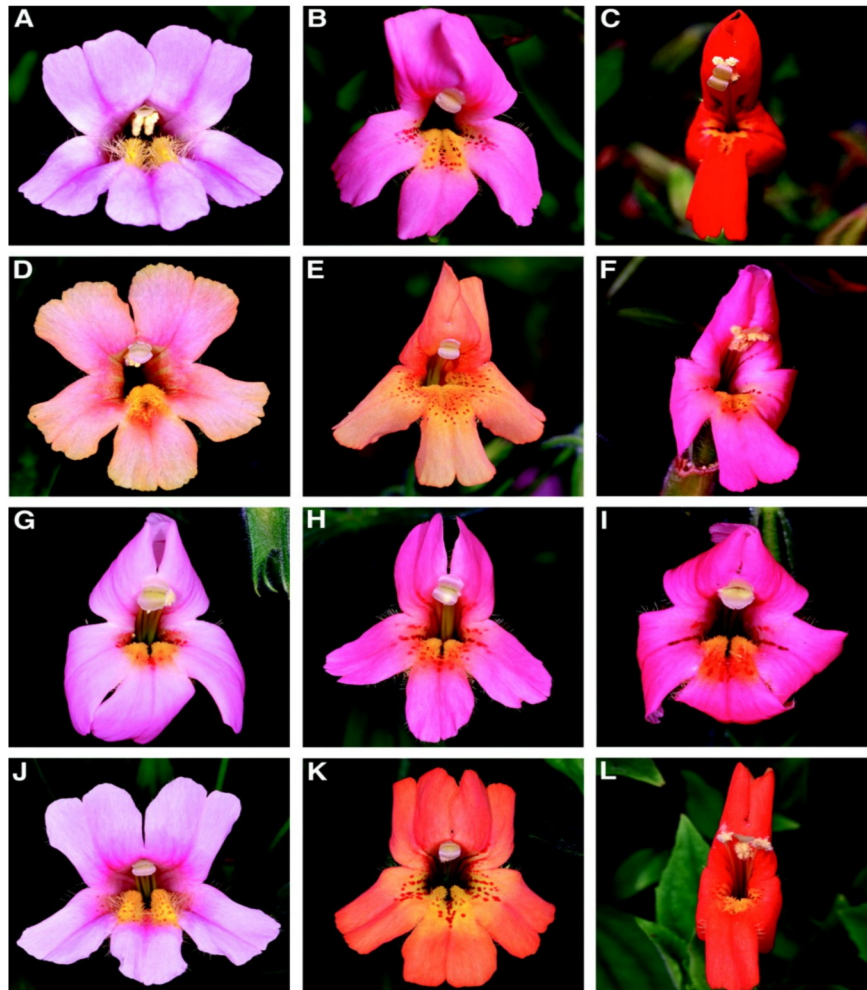
- Transplantation tolerance
- Rapid, uniform germination
- Rapid seedling growth

Unintentional Selection

- Transplantation tolerance
- Rapid, uniform germination
- Rapid seedling growth
- Ease of propagation

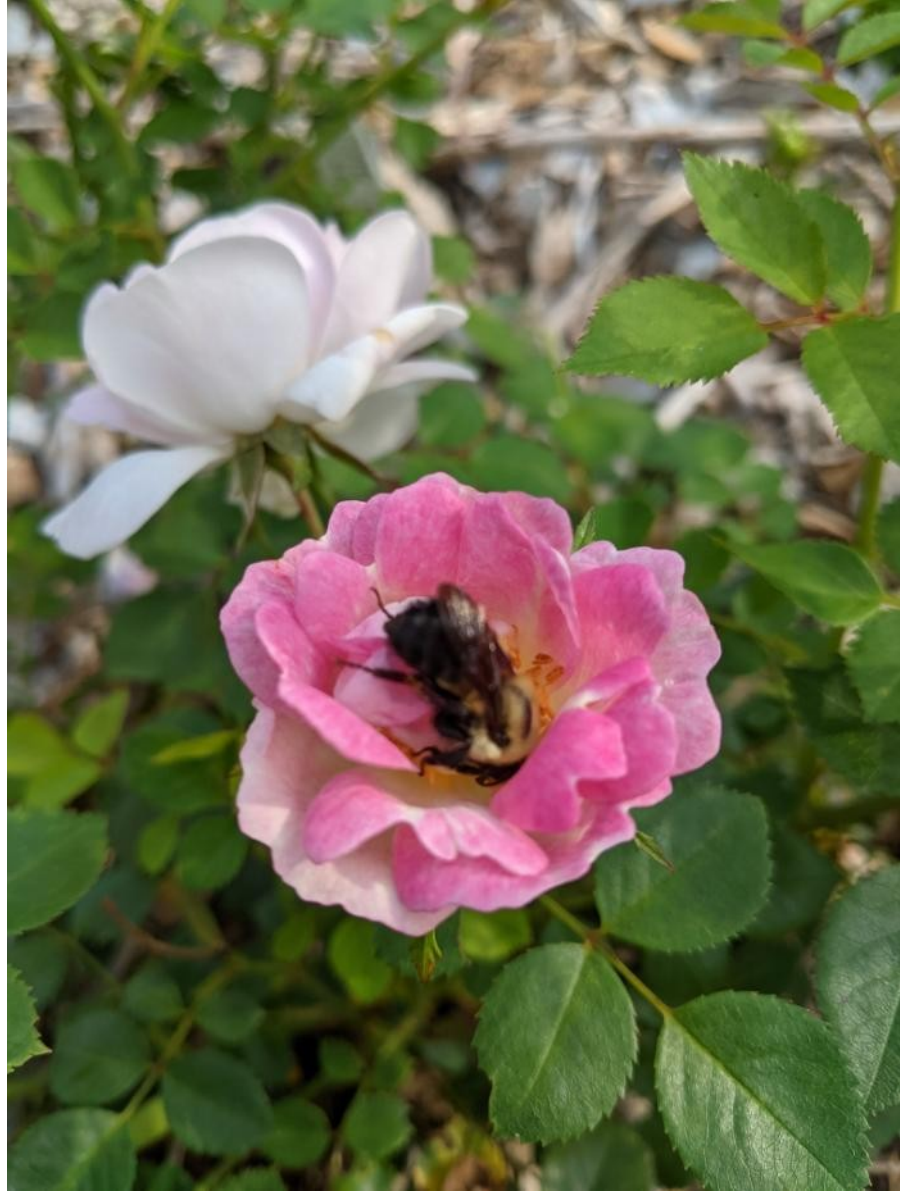






Schemske D W , Bradshaw H D PNAS 1999;96:11910-11915





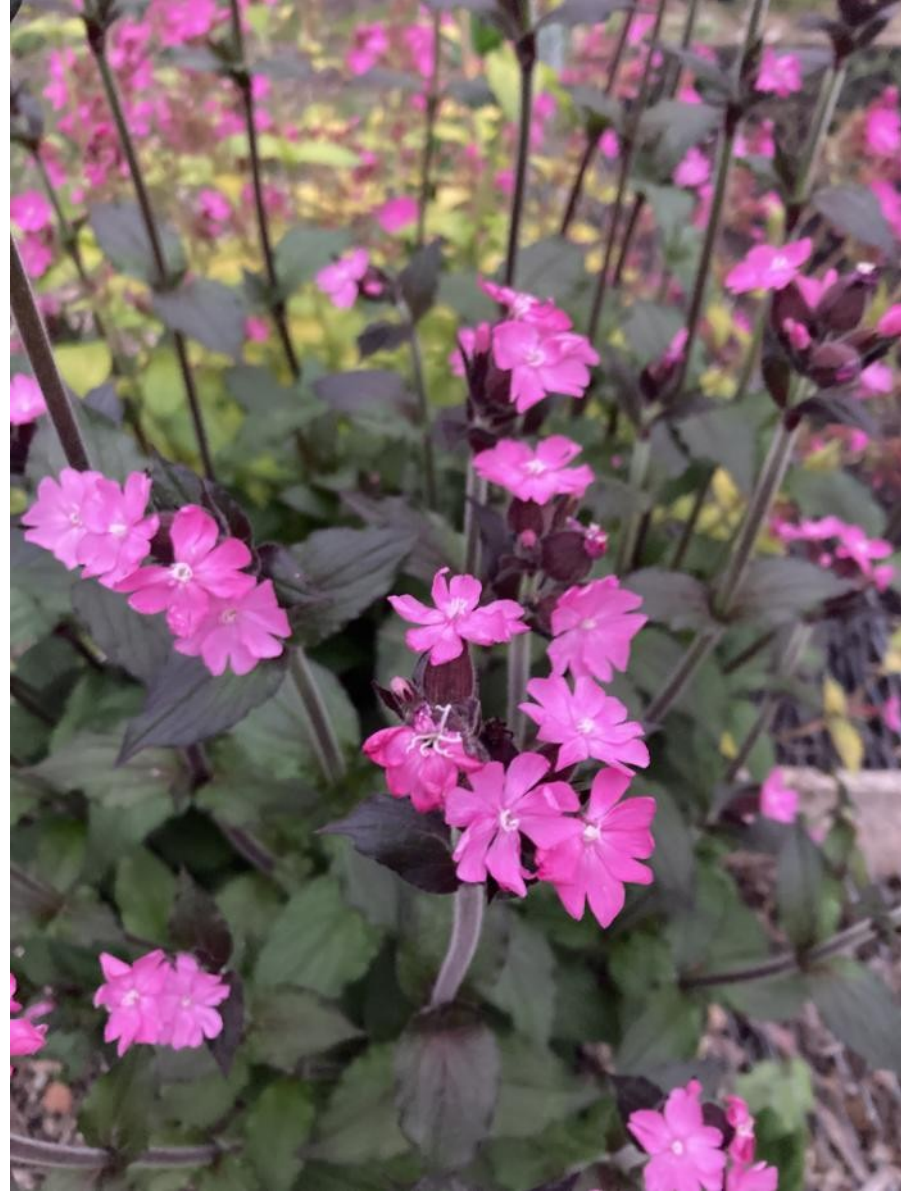


















In a Garden:

In a Garden:

- Balance beauty, performance, and ecosystem services.

In a Garden:

- Balance beauty, performance, and ecosystem services.
- Positive: compact, heavy flowering, garden performance

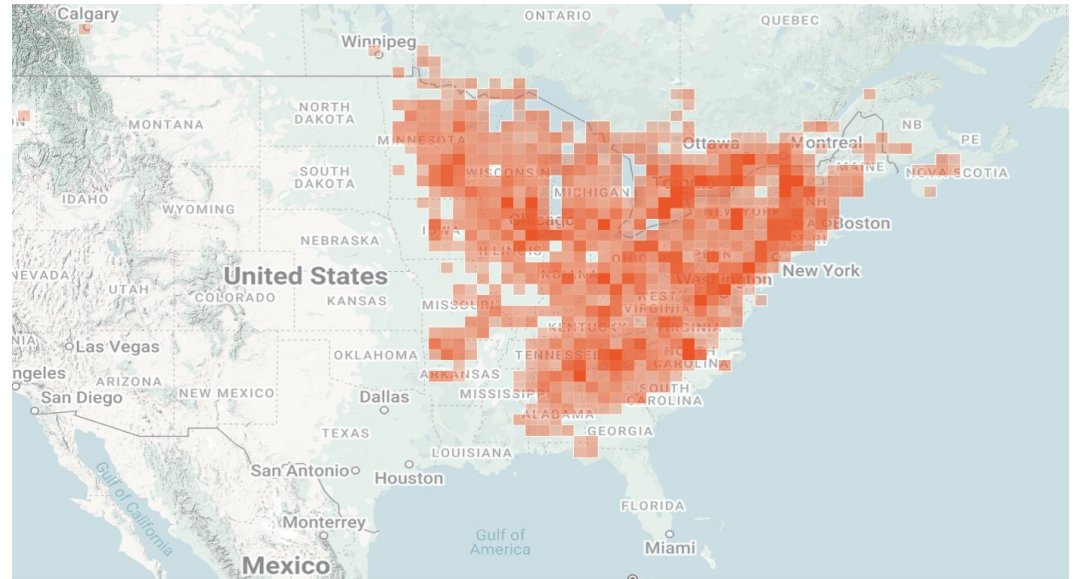
In a Garden:

- Balance beauty, performance, and ecosystem services.
- Positive: compact, heavy flowering, garden performance
- Negative: Changes in flower form, color, hybrids, foliage color

Ecosystem Restoration

Ecosystem Restoration

- Local genetics



Ecosystem Restoration

- Local genetics
- Recent selection from wild

Ecosystem Restoration

- Local genetics
- Recent selection from wild
- Maximize diversity



Landscape Design

My neighbor's
house:



My house:



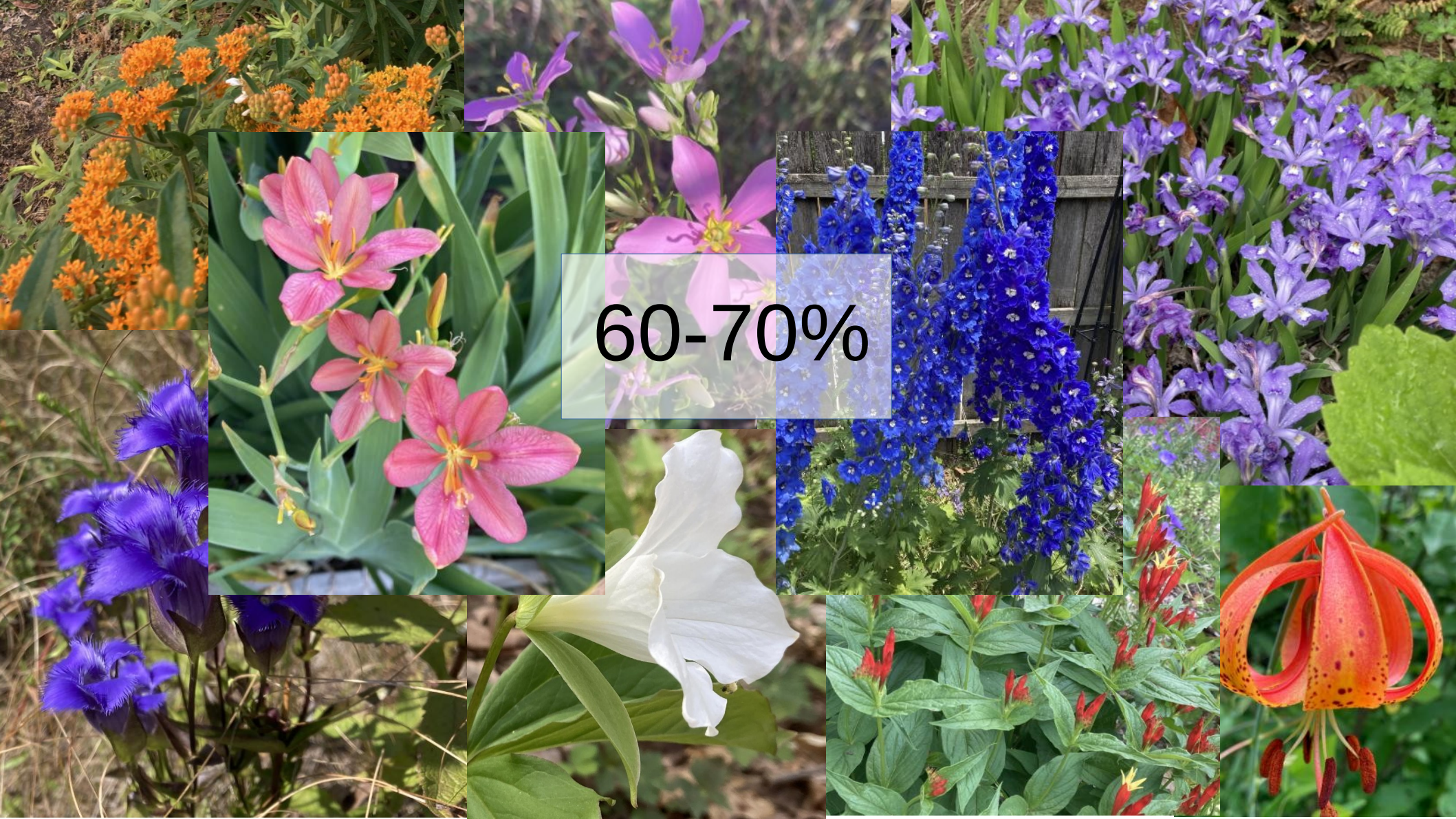
We both think the other one
has a problem...

Joseph Tychonievich



















Design for ecology

- Diversity, diversity, diversity
- Extend bloom time
- Any design style can be ecologically valuable

A close-up photograph of a flowering plant, likely a Weigela, with numerous small, five-petaled flowers in shades of white and light pink. The leaves are small, oval-shaped, and have a reddish-pink hue. The background is filled with green foliage, including long, narrow leaves of a grass-like plant.

Maintenance Practices

BIOADVANCED.

SCIENCE-BASED SOLUTIONS

Organics
BRAND

NEEM OIL

READY-TO-USE

**3 GARDEN
PRODUCTS
IN ONE**

FUNGICIDE, INSECTICIDE & MITICIDE

Can be used up to day of harvest

Action Ingredients:
Certified Hydrophobic Extract of Neem Oil... 0.51%
Other Ingredients... 99.49%
TOTAL... 100.00%



NET CONTENTS
24 FL OZ (709ml)

KEEP OUT OF REACH OF CHILDREN
CAUTION See inside panel for additional
precautionary statements

50472303 220420V1

FOR
organic
gardening

TRUSTED SINCE 1926

BONIDE

Systemic Houseplant Insect Control

*Protects plants from damage
by Aphids, Whiteflies and
other listed insects*

*Even new growth is
protected against
insects for up to
8 weeks.*

ACTIVE INGREDIENT

Imidacloprid 0.22%

OTHER INGREDIENTS 99.78%

TOTAL 100.00%

EPA Est. No. 4-NY-1

EPA Reg. No. 53883-217-4

*For
containerized
plants*

Keep Out Of Reach Of Children

CAUTION (See Back Panel Booklet for Additional
Ingredients and Precautionary Statements)
Net Weight 8 OZ. (23kg)

951





Cutting back tips:

- Less is best
- For hollow stems: leave 8 – 24 inches
- Target care to visible or formal areas
- No safe time window after which to clean up

josephgardens.com

josephgardens.substack.com