Growing Wild Movement

A DCR/DAR collaboration





Background

- Previous efforts
- EEA Leading by Example
- Pollinators as a Catalyst
 - Benefits and Challenges

Growing Wild Movement

- Promoting DCR/DAR pollinator efforts
- Public Involvement
- Proposed Implementation
 - Earth Week Launch/Park Serve Day Virtual Activities
 - Partnerships with Nurseries for Distribution
- Engaging Everyone EJ communities

Questions & Next Steps



Background

DCR

- Pollinator habitat established at DCR properties
- Pollinator Habitat Best Management Practices

DAR

- Agriculture relies on pollinators
- Apiary specialist inspection team
- Pollinator educational materials

Opportunity

- People spending more time connecting with nature in parks and at home – seize on opportunity to get public involved in promoting shared stewardship
- Public lands, alone, can't provide enough habitat
- Pollinators are an excellent catalyst to educate public about native habitat

Benefits of Pollinators

- Pollinators support biodiversity and contribute to healthy ecosystems
- Pollinators are essential for the survival and distribution for a vast number of plant and wildlife species
- Many crops cannot produce fruits or vegetables without pollinators
- Developing pollinator habitats increases soil moisture, carbon sequestration, flood resilience, water quality, biodiversity and species richness

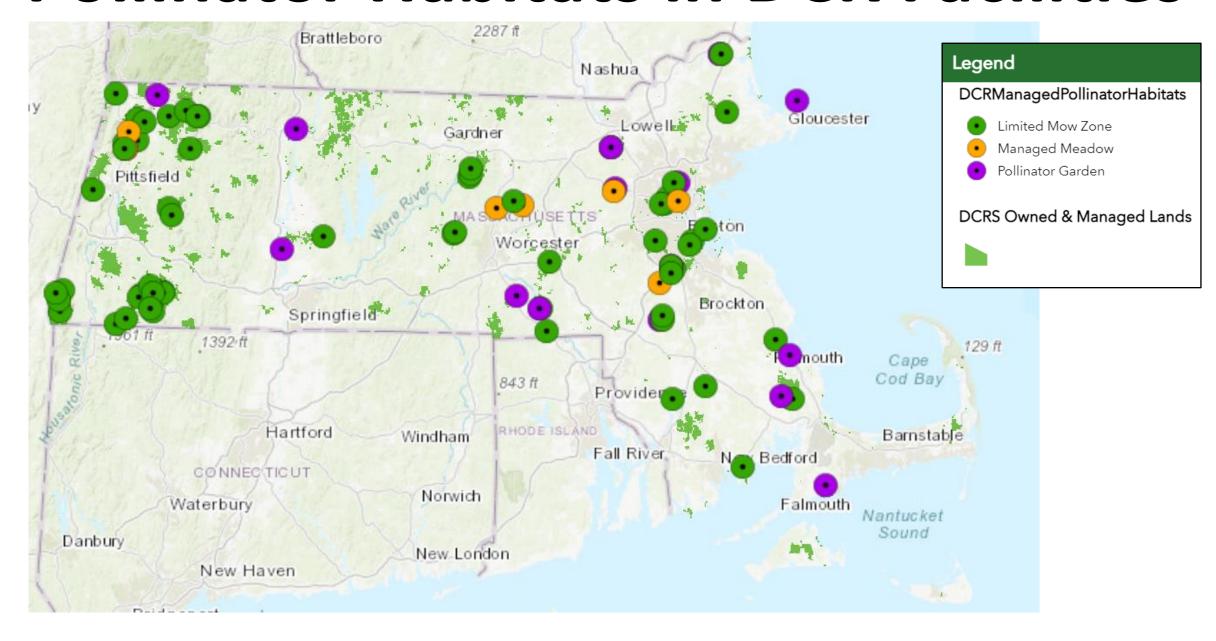


Challenges Facing Pollinators

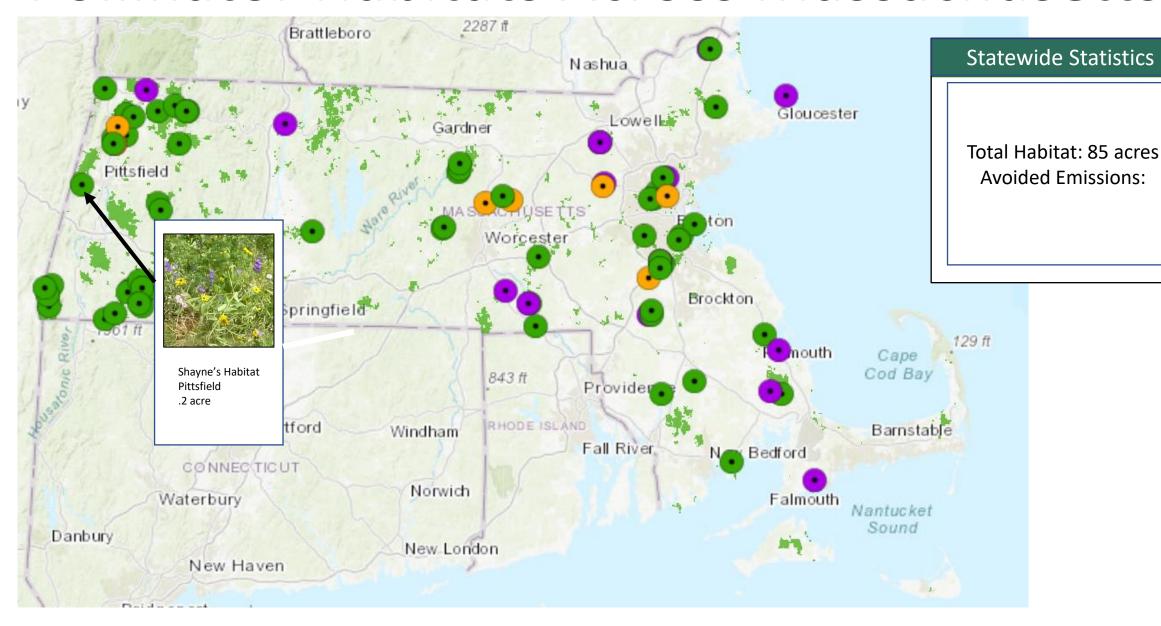
Species are in decline across the globe

- Habitat degradation
- Habitat loss/ habitat conversion
- Climate change
- Invasive species
- Disease
- Pesticide Exposure
- Pollution

Pollinator Habitats in DCR Facilities



Pollinator Habitats Across Massachusetts



Pollinator Habitats





Photo: Middlesex Fells pollinator garden with rain barrel cc. Gillian Lay

Growing Wild Movement

Leading by Example

- Showcase DCR properties with pollinator habitat to educate public; Growing Wild branding signs
- Provide technical support to DCR properties to create additional habitat; BMP training
- Disseminate DAR educational materials and promote movement through State Apiary and other venues

Foster Public Involvement

- Leverage DAR Marketing connections to partner with Massachusetts nurseries to provide native plants and seeds to public and promote "Growing Wild" movement
- Tap DAR and DCR professionals to develop educational materials and conduct seasonal public workshops about creating and maintaining habitat and benefits; both online and in person (when viable)
- Provide participants journal to chart seasonal changes, develop nature observation skills and foster stewardship
- Connect public to interactive pollinator map and benefits calculator











Search Mass.gov

OFFERED BY Massachusetts Grown...and Fresher! Massachusetts Department of Agricultural Resources

www.mass.gov/service-details/garden-centers-and-nurseries

Garden Centers and Nurseries

Massachusetts Flower and Nursery Growers



With over 30,000 acres of land in production, Massachusetts flower and nursery growers are the largest agricultural sector in the state, critical for our local and state economy.

Find family owned flower, greenhouses and garden centers across Massachusetts. You'll be surprised and delighted with the varieties of flora available throughout the season featuring locally grown flowers, shrubs, and trees, as well as advice to give you confidence that you have the perfect plant for your garden. Many also offer gardening supplies, special events, seminars and florist services throughout the year. Map of locations here.

Gardening activities provide beauty, relaxation, accomplishment, education and fun for the whole family! UMass offers over 150 online facts sheets to help you with your lawn and garden.

If you are looking to create a pollinator-friendly landscapes using native plant species, click here for options.

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RELATED

Find a Garden Center/Nursery near you! >

Pet Safe Plants >

Choosing Pollinator-Friendly Native Plants in Home Gardening or Landscaping >



www.mass.gov/MassGrown



Bringing it Home – Promoting Shared Stewardship

<u>Budget</u> (\$75,000 from EEA Stewardship Budget) Hire Consultant to coordinate with nurseries, develop marketing materials and produce Growing Wild Starter Kits.

Deliverables:

Posters/Signs

Nurseries/Garden Centers (Participating in Growing Wild)
Parks (encouraging public to Grow Wild); sign shop makes for DCR
Participants (sign included in kit)

Growing Wild Starter Kit

Live Plants

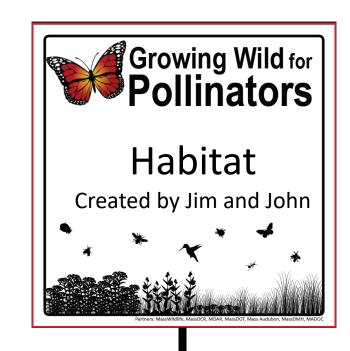
Seed Packet

Growing Wild Journal

Growing Wild sign for habitat (branded)

Trowel (sturdy) (branded)

Materials from DCR and DAR



Coordination of Distribution

OFFERED BY Massachusetts Department of Agricultural Resources Massachusetts Grown...and Fresher!

Choosing Pollinator-Friendly Native Plants in Home **Gardening or Landscaping**

Tools for developing pollinator-friendly landscapes using native plant species





Whether you are interested in improving pollinator resources on your own property, looking for guidance developing a landscaping plan, or trying to determine which native plant species to stock for sale, these curated lists of native, pollinator-friendly container plants and seeds will help you make the right decisions.

www.mass.gov/servicedetails/choosingpollinator-friendly-nativeplants-in-homegardening-or-landscaping

Massachusetts

Downloadable Resources

- · Creating Pollinator-Friendly Gardens with Native Plants: Locally Available Options
- Native Pollinator Plants Seed List
- New Garden Centers and Nurseries who sell Native Plants
- New Massachusetts Native Plants and Pollinators Poster

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RELATED

Apiary Program (honey bees) >

Pollinator Protection Plan >

Honey Producers and Beekeepers >

Map of Greenhouse/Nursery Growers >

UMass - Native Pollinators and Conservation >

Pollinator Habitat Savings Calculator: Input

Step 1: Site Details

Parcel Size (acres)

Baseline # of Mows (annually)
Fuel Type for Mower

Type of Change
Include mowing labor costs in calculations?

Data Input

12
gasoline
limited
mow
yes

Step 1a: Till & Seed Upfront Capital (Setup) Costs		
Do not fill below. No capital (upfront setup) costs for limited- mow.		
me		

Est. Annual Savings	\$ 749	
Annual Avoided Emissions (lb CO2)	534	
Payback of Upfront Capital Costs	Year 1	
		•

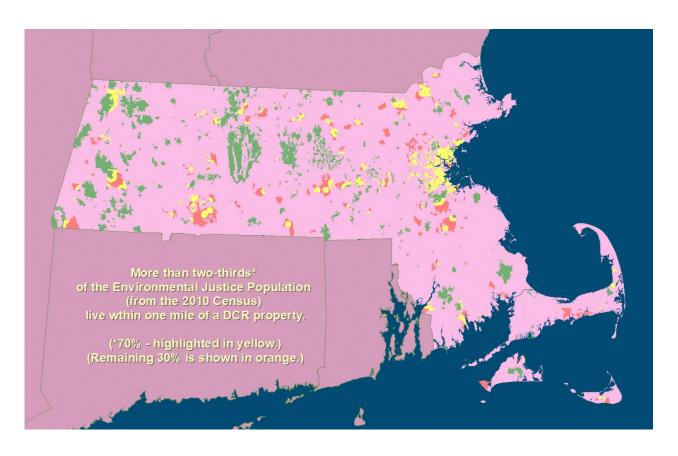
Step 2: Site Management Logistics	Default Data	Use Default Data?	
Mowing Time (hours per mow)	1.5	yes	
Fuel Cost (per gallon)	\$2.58	yes	
Fuel Usage (gallons per mow)	2.48	yes	
Annual Amortized Mower			
Maintenance Cost	\$30.60	yes	
Mowing Labor Cost (per hour)	\$37.11	yes	

Business as Usual Mowed Turf Costs			
Site Preparation Costs	\$	-	
Annual Fuel Cost	\$	76.63	
Annual Labor Cost	\$	720.00	
Annual Amortized Maintenance Cost	\$	20.40	
Total Year 1 Cost	\$	817.03	
Total Annual Upkeep Cost		817.03	
Greenhouse Gas Emissions (lb CO2)		582.09	
Annual Mowing Time (hrs)		18	

Pollinator Habitat Costs: No Mow			
Site Preparation Costs		\$	-
Annual Fuel Cost		\$	6.39
Annual Labor Cost		\$	60.00
Annual Amortized Mair	ntenance Cost	\$	1.70
Total Year 1 Cost		\$	68.09
Total Annual Upkeep C	Cost	\$	68.09
Greenhouse Gas Emiss	ions (lb CO2)		48.51
Annual Mowing Time (h	rs)		1.5

Estimated Pollinator Habitat Savings			
		Annual	Lifetime (8 years)
Year 1 Site Preparation Cost	\$	-	\$ -
			\$
Fuel Cost Savings	\$	70	562
Labor Cost Savings	\$	660	\$ 5,280
Amortized Maintenance Cost Savings	\$	19	\$ 150
Total Gross Savings	\$	749	\$ 5,992
Net Savings Over Lifetime		-	\$ 5,992
Avoided GHG Emissions (lb CO2)		534	4,269
Mowing Time Savings (hrs)		17	132
Annual Upkeep: Percent Cost Reduction		91.67%	
Payback of Upfront Capital (Setup) Cost		Year 1)

ENGAGING EVERYONE!



School/Town Participation – Proposed Fall

- Focus on EJ Communities
- Invite elementary schools, public libraries, urban and community gardens and cities/towns to plant habitat, on school/town property
- Select communities or establish competitive process in spring for fall planting
- Requires plan for ongoing stewardship

Partnering with the Lowell School District and Lowell Food Security non-Profit Mill City Grows to restore and create 2 pollinator gardens on school grounds and provide landscape consultation services for the other 14 school gardens in the city. Image below is of the Stoklosa Middle School garden.



Abraham Lincoln School garden. Proposed pollinator garden will be created on the slope of the hill to the right





Questions?