



Help Pollinators, Help Birds, Build Habitats!

Build a Native Garden at Belmont Middle and High School



*Slides Created in Partnership with Jean Devine, Devine Native Plantings
And modified by Belmont High School Climate Action Club*

The Urgency of Now!

- Climate change is real...*and visible*
- Biodiversity loss is really serious ... ***and not so visible***
- We can't wait for others to fix either one
- Happily, we are not alone...*The movement* has begun*

* *Toward native plant gardens everywhere!*



pollinator friendly yards on facebook

**90% OF NATIVE INSECTS
HAVE DEVELOPED
SPECIALIZED RELATIONSHIPS
WITH NATIVE PLANTS**

Native pollinators need native plants because they are

- Native to our region (*& not cultivars*)
- Known to support:
 - native pollinators
(good)
 - specialists vs. generalists (better)
 - at-risk specialists
(best)
- Season-long bloom
 - March-Nov.
 - plants, shrubs, vines, trees
- Opportunities for soft-landings & over-wintering

Pollinators need plants for food



**Pollen = food for adults
& their babies**

ex. bees put pollen into
the nest so the emerging
larva has something to
eat

Nectar = energy ->



**<-Host Plant = baby food
for larva...which
becomes a caterpillar**

**Caterpillars are soft,
protein-rich food for
baby BIRDS**

BHS CAC Pledges to Garden with Intention to make a Healthy Habitat for pollinators, birds, and wildlife.

- ✦ Remove invasive plants - volunteers & invited
- ✦ Plant for pollinators, insects, birds & wildlife
- ✦ Universal Design: Plant for the most robust, biodiverse ecosystem that will support many species & build resilience
- ✦ Leave nothing bare. Ground covers and fallen leaves are better than mulch.
- ✦ Edit out - redeploy the aggressives. Add diversity
- ✦ Idle - leave the leaves! That's home.

Remove. plant. edit. idle. repeat

Plant Blueprint of the BHS Native Gardens

Early Summer:

- Polemonium reptans: Jacob's ladder
- Zizia aurea: Golden Alexander

Mid Summer:

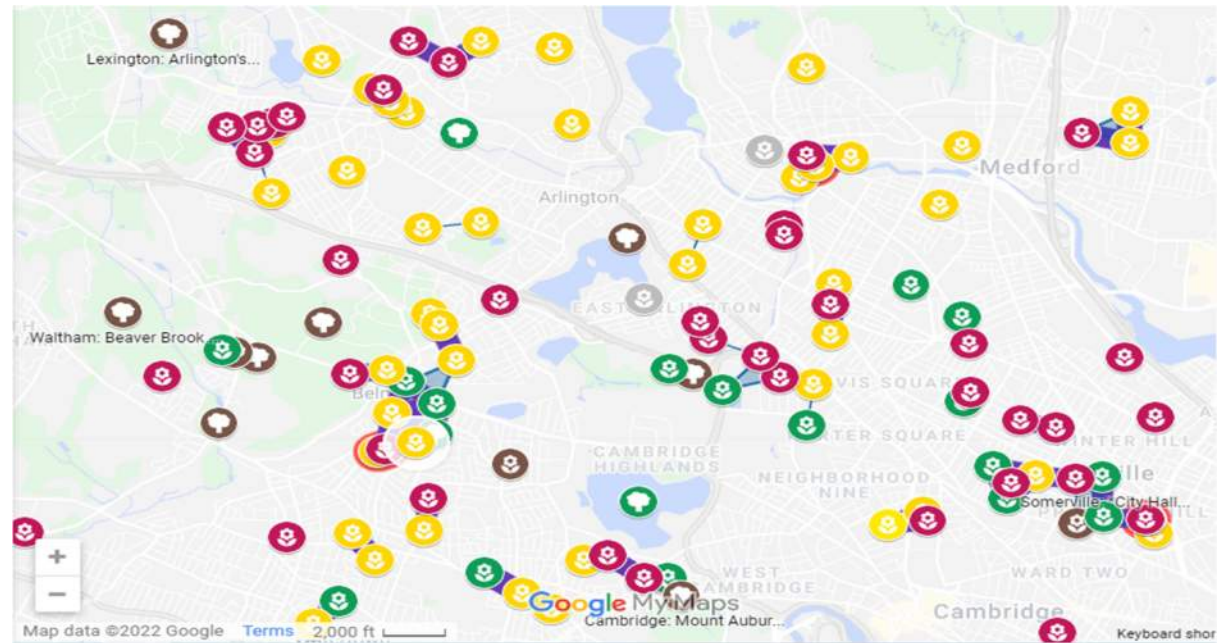
- Asclepias incarnata: Swamp Milkweed
- Coreopsis lanceolata: Lance Leaf Coreopsis
- Echinacea purpurea: Purple Coneflower
- Monarda fistulosa: Wild Bergamot

Late Summer:

- Aster novae-angliae: New England Aster
- Chelone glabra: White Turtlehead
- Solidago odora: Sweet Goldenrod



Mystic Charles Pollinator Pathways



Mystic Charles Pathway map: <http://tiny.cc/MCmap>

With the native gardens,
Belmont will be included as a
native garden community.

We will plant in fall; plants will continue to grow, year after year



Native Gardens at BHS

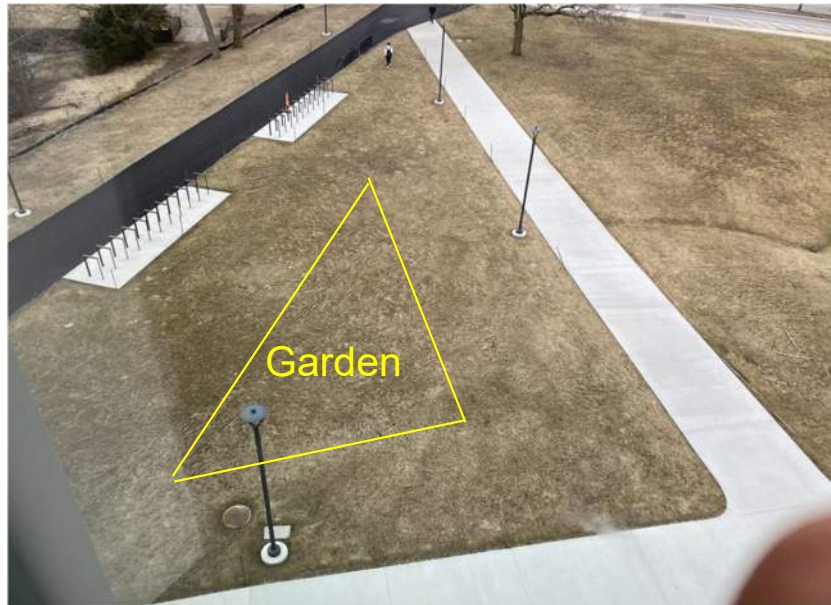


Created by the BHS Climate Action Club
(CAC)

Location



Black triangle indicates location *not to scale



Exterior view
*not to scale

**100-200 sq. ft.
of plants**

Garden
would consist
of native
plants and
shrubs and
educational
signage to
inform the
public

Funding

Estimated Total Cost:
\$2619(Shown on next slide)

Total includes:

- **Purchasing of the plants**
- **Maintenance of the plants**

Current funds raising by the BHS CAC:

BHS CAC Native Garden Concert
Fundraiser: \$1000

PTSO Grant: \$500

Private Matching Donation: \$1500

Total Raised: **\$3000**

EXPENSES	Garden size	~ 120 sq ft.	if 10” spacing	120 * 1.45 = wd be ~ 174 plants	EXPENSES	Garden size	~ 120 sq ft.	if 10” spacing	120 * 1.45 = wd be ~ 174 plants
Item/Service	Cost/Unit	Unit	Quantity	Total Cost(\$)	Item/Service	Cost/Unit	Unit	Quantity	Total Cost(\$)
SITE PREPARATION					TOOLS				
Turf Removal		student power			Shovels	25	ea	4	100
INSTALLATION MATERIALS					Gloves	6	ea pair	20	120
PLANTS					Rakes/hoes	20	ea	4	80
Native plants – herbaceous quarts	12	ea	75	900	Field flags	12	100pk	2	24
Plugs	4	ea	50	200	Bunny Fencing	30	50 ft	3	90
Native plant delivery (ship)	20		1	20.00	Fencing staples	20	pkg of 100	2	40
SBTL-PLANTS				1,120.00	SBTL-TOOLS				454
Water Supplies					INSTALLATION LABOR				
hose	45	100 ft.	1	45	Student workers		student power		0
hose nozzle	16		1	16	Volunteer workers				\$0.00
sprinkler, sled based	35		1	35	Printed MATERIALS				
rain barrel + spigot	65		1	65	Site Signage and promotion	50	3	1	\$150.00
Birdbath	75	ea	1	75	SBTL-PRINT				150
SBTL-Water				236	TOTAL PROJECT COSTS				\$2,619.00
SOIL/Mulch/Features									
Soil (50-50 Compost- Loam)	49	cu yard	6	294					
Leaf Mulch	55	cu yard	3	165					
Delivery charges	200		1	200					
SBTL-PLANTS				659					

Educational Purpose of the Gardens

- Bio, Art classes can benefit from the gardens
 - If we plant in the fall, use of the gardens will be available to students and classes by the spring
-

Planting/Care Plan

BHS students will take care of the garden including:

- Planting
- Watering
- Maintenance

This will be organized by the BHS Climate Action Club leaders and advisor with help from a native plant expert and undertaken by club members and other students for community service hours.



*Thank you for your
consideration and
support!*

*Please feel free to ask or
reach out to us with
any questions.*

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