

All the Dirt on Winter Sowing Native Plants

Molly Moore

President, Southern MD Audubon Charles County Master Gardener Marlene Smith

Charles County Master Gardener Member, Southern MD Audubon

















Molly Moore

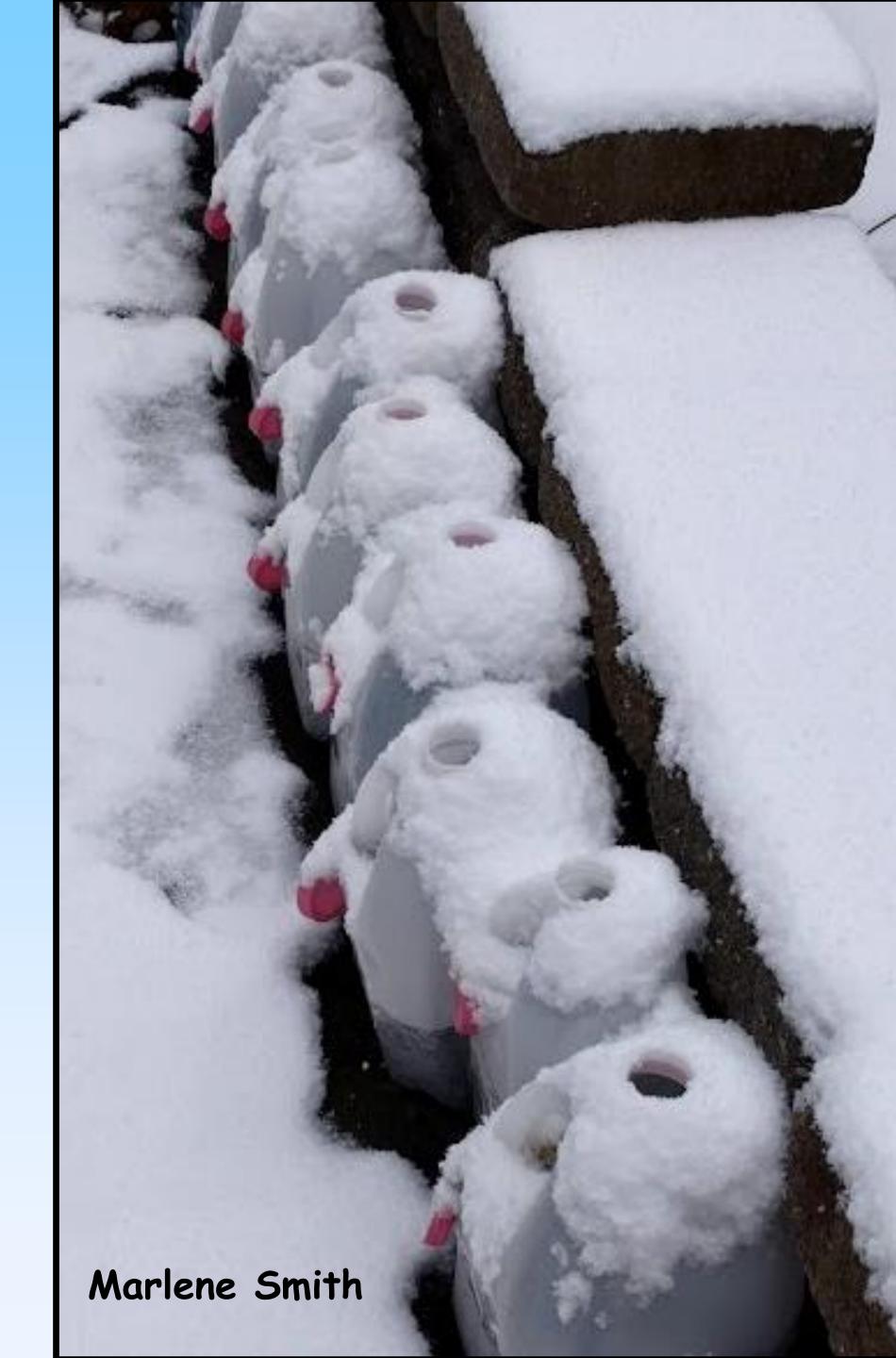
President, Southern MD Audubon Charles County Master Gardener Maryland Master Naturalist/ Nanjemoy Creek Environmental Education Center

Marlene Smith

Treasurer, Charles County Master Gardeners Bay-Wise Master Gardener Maryland Tree Steward Member, So MD Audubon

What is Winter Sowing?

- · An incredibly easy way to grow seedlings
- In the middle of winter, scoop planting medium into a plastic container with a hole in the top for ventilation & holes in the bottom for drainage
- · Plant seeds and wait for them to sprout
- Winter sowing introduced by Trudi Davidoff in 2000 & has since been recognized officially by the USDA



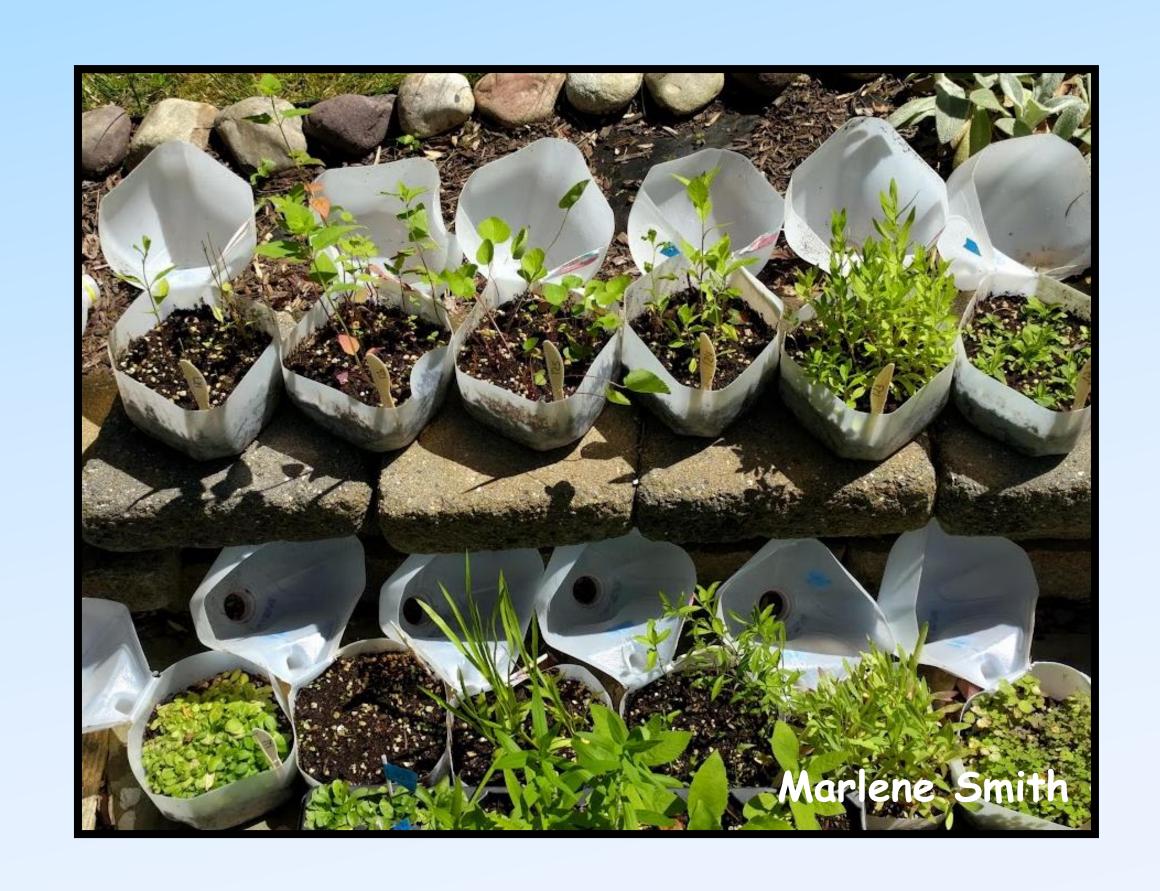
·Why Winter Sow?

- · Inexpensive!
- · Environmentally friendly
- · Easy
- · Fun!
- · No hard and fast rules





- · Protects seeds
- · Eliminates competition from weeds
- · Produces strong, healthy plants
- · Eliminates need for "hardening off"
- · Reduces need for watering
- · Provides cold moist stratification



Cold moist stratification — Many native plants need the freeze



60 days

Orange Coneflower



30 days

Butterfly Weed



30 days

Common Milkweed

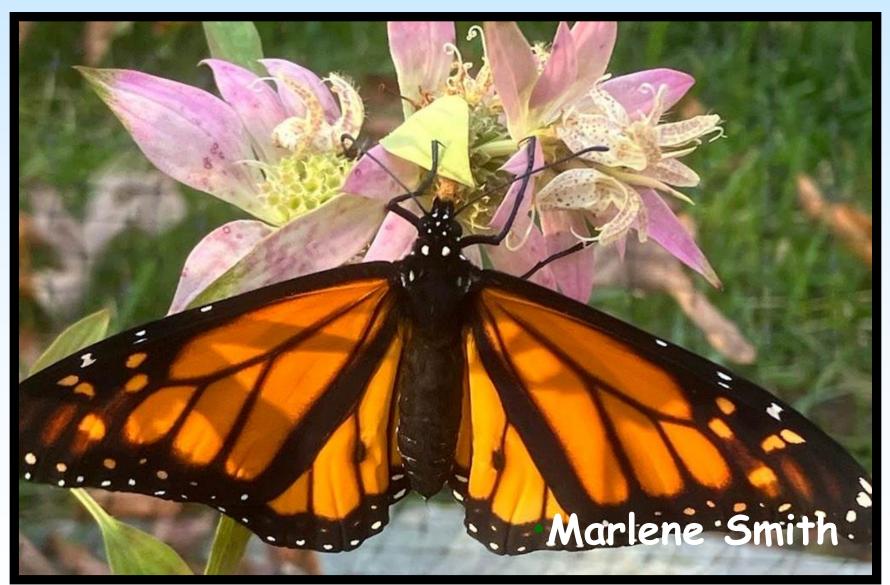


30 days
Joe-Pye

What is a native plant?

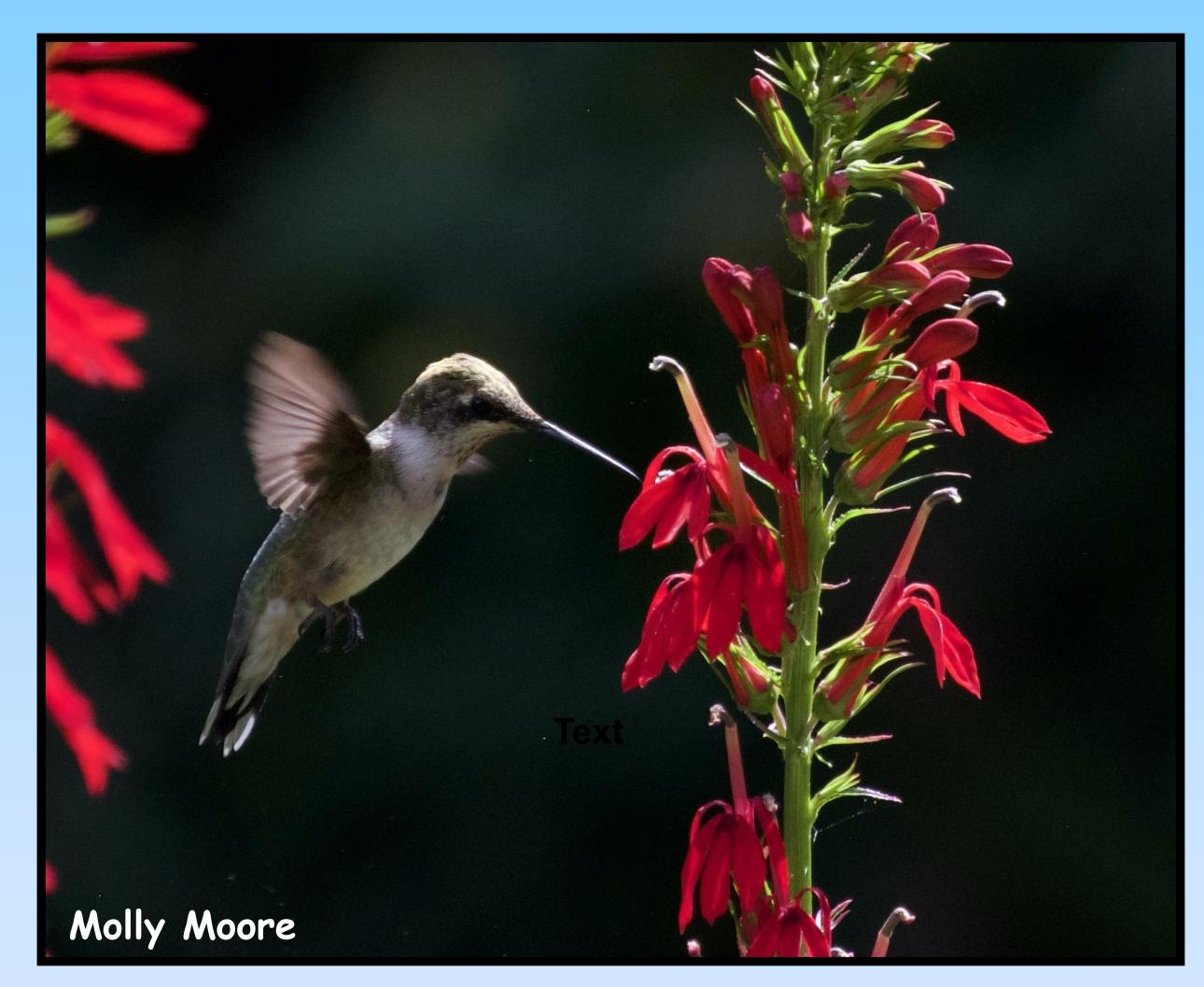
- A plant that is part of the balance of nature and co-evolved with our native birds, insects and other wildlife.
- ·It has developed over hundreds or thousands of years in a particular region or ecosystem
- Only plants found in this country before European settlement are considered to be native to the US





Why grow natives?

- · Better suited for our climate
- · Require less water once established
- · Do not need fertilizer
- · Tolerate a variety of soil & light conditions
- Add year-round beauty & interest to the garden
- · Healthier for you & environment
- Provide essential food & shelter for local birds, pollinators and other wildlife



How many insects does it take this Carolina Chickadee to raise one family?



Easy Natives to Winter Sow



Joe-Pye
Eutrochium
purpureum



New England
Aster
Symphyotrichum
novae-angliae



Foxglove
Beardtongue
Penstemon
digitalis



Orange Coneflower Rudbeckia fulgida



Common Milkweed Asclepias syriaca



Gray
Goldenrod
Solidago
nemoralis



Common Evening Primrose Oenothera biennis



Blue Wood
Aster
Symphyotrichum
cordifolium



Partridge Pea Chamaecrista fasciculata

Let's get started!



When to Sow

December 21-March 20

- All native plants—but especially ones that require cold moist stratification
- · Native grasses, vines & trees
- Most perennials, biennials & annuals



Tools of the trade: What you need

- · Containers
- · Soilless potting mix or seed starting mix
- Bucket for mixing
- Water
- · Trowel
- Scissors or sharp knife
- · Wood-burning pen, drill, etc
- · Tape for sealing/labelling
- Marker for labelling
- Seeds



Collect and wash containers

- Milk jugs (gallon or quart), 2-liter bottles, plastic food tubs, ice cream tubes, baggies, aluminum pans, deli/take out containers, plastic drink cups
- Wash and rinse containers to remove any milk or food residue. Allow to dry completely.
- Need minimum of 3-4 inches of potting mix for natives to allow root development.



Making the Cuts

- ·Using knife, scissors, drill, hot glue gun, or soldering iron, make 4-6 holes in bottom of container
- •For jugs, cut in half, leaving a 4" bottom and a hinge under the handle. Discard cap.



A word about containers: Use your imagination!



Photos by Marlene Smith







Prepare labels

- Use UV-resistant markers, pens, paints on outside
- As a backup in case labelling on the outside comes off or fades, use a popsicle stick or plant marker inside the jug
- Label the bottom with duct tape and waterproof marker



Prepare potting mix

- Use a large container such as a wheelbarrow, cement mixing tray or bucket
- Add water to potting mix until thoroughly wet but not sopping wet



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Add potting mix

- Optional: Add a waterpermeable barrier (coffee filter, landscape fabric, or newspaper) to the bottom before adding potting mix to keep slugs out
- · Add approx 3-4 inches of mix to the container
- · Tap container to settle the mix and remove air pockets



Planting the seeds

- Plant only one type of seed at a time
- Mix tiny seeds with course sand or vermiculite and sprinkle on top of mixture
- Larger seeds—follow instructions on packet for depth



Methods of Planting

Space seeds so they can be easily cut or torn apart



Hunk o' seeds—plant in a mass that can be cut brownie-style



Seal the containers



Care of jugs & containers

- · Do not put caps on jugs
- Place in protected area safe from pets, wild animals, young children and clumsy spouses
- · Place in part shade/part sun



The Wait

- ·Have patience
- ·Seeds will sprout when nature tells them to
- ·You can't hurry the seeds
- ·But you can—and should—peek





Monitor your babies

Condensation—good

Green algae—bad





My seeds have germinated. Now what?

- Wait for at least 1 2 sets of true
 leaves to appear
- · Or until seedlings are 2 inches tall



Cotyledons—Not Ready

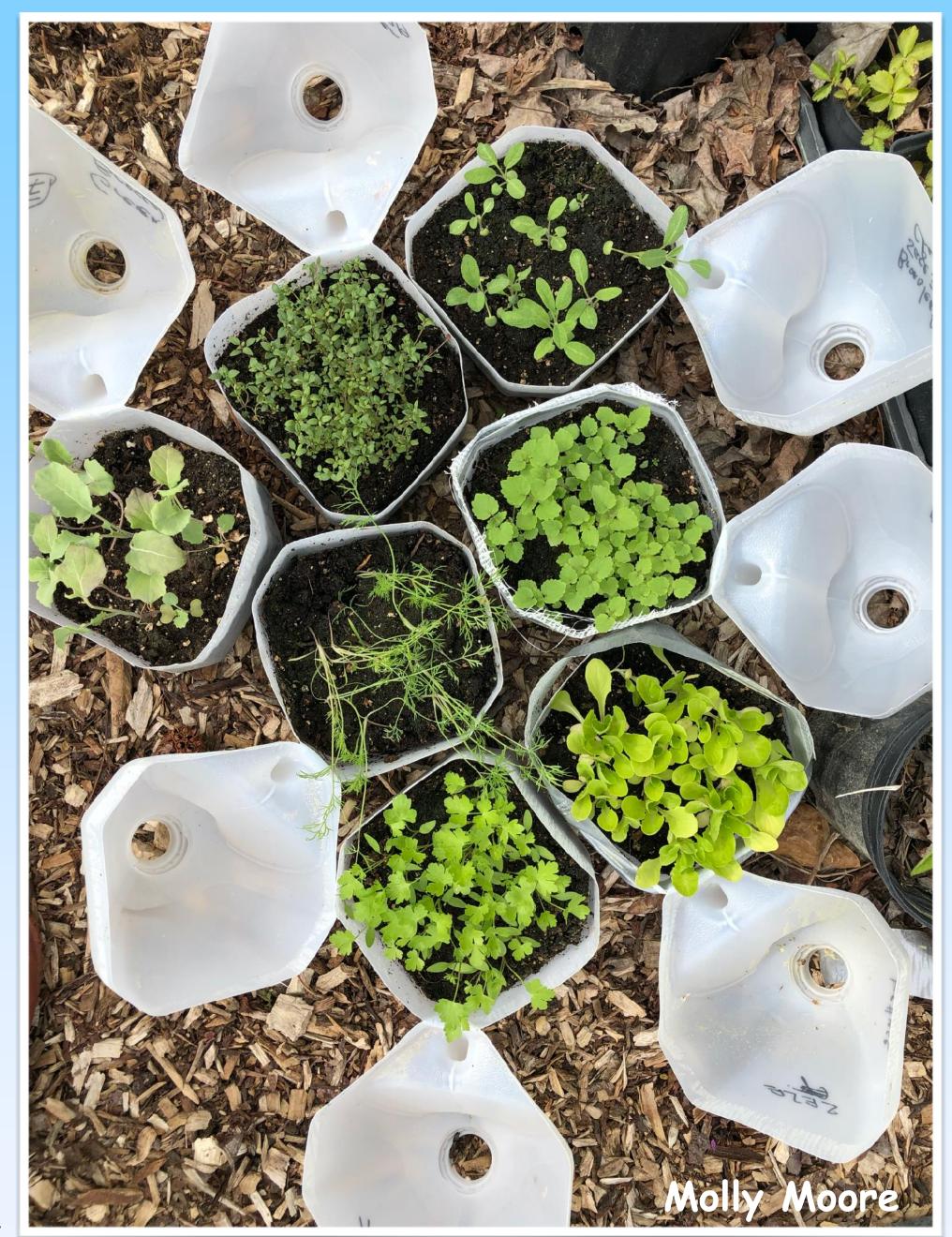


Ready

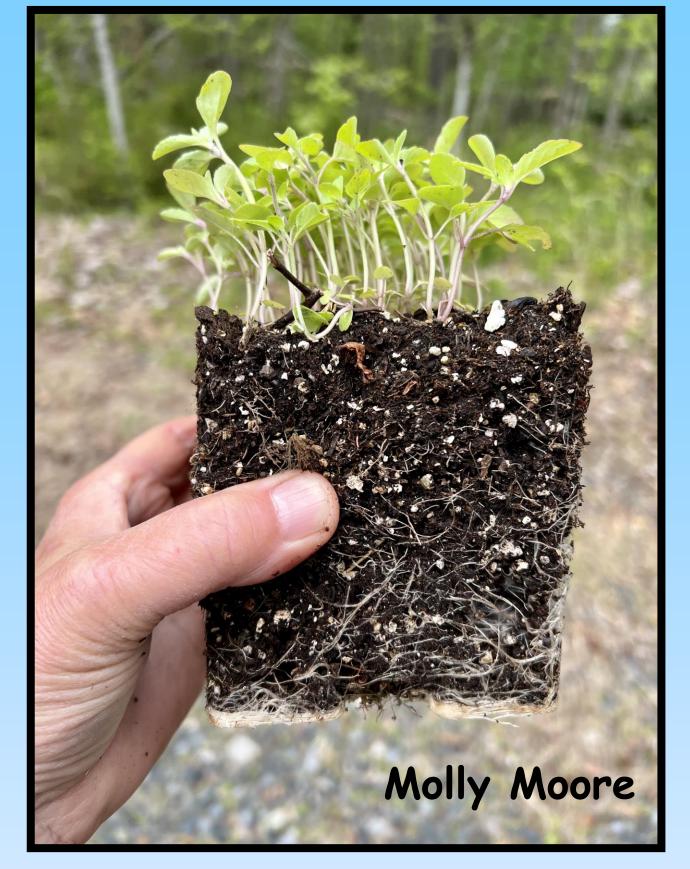
Transplanting seedlings

- Transplant after seeds sprout at least two true leaves or seedlings are 2 inches tall
- Open containers to acclimate 2-3 days before transplanting.





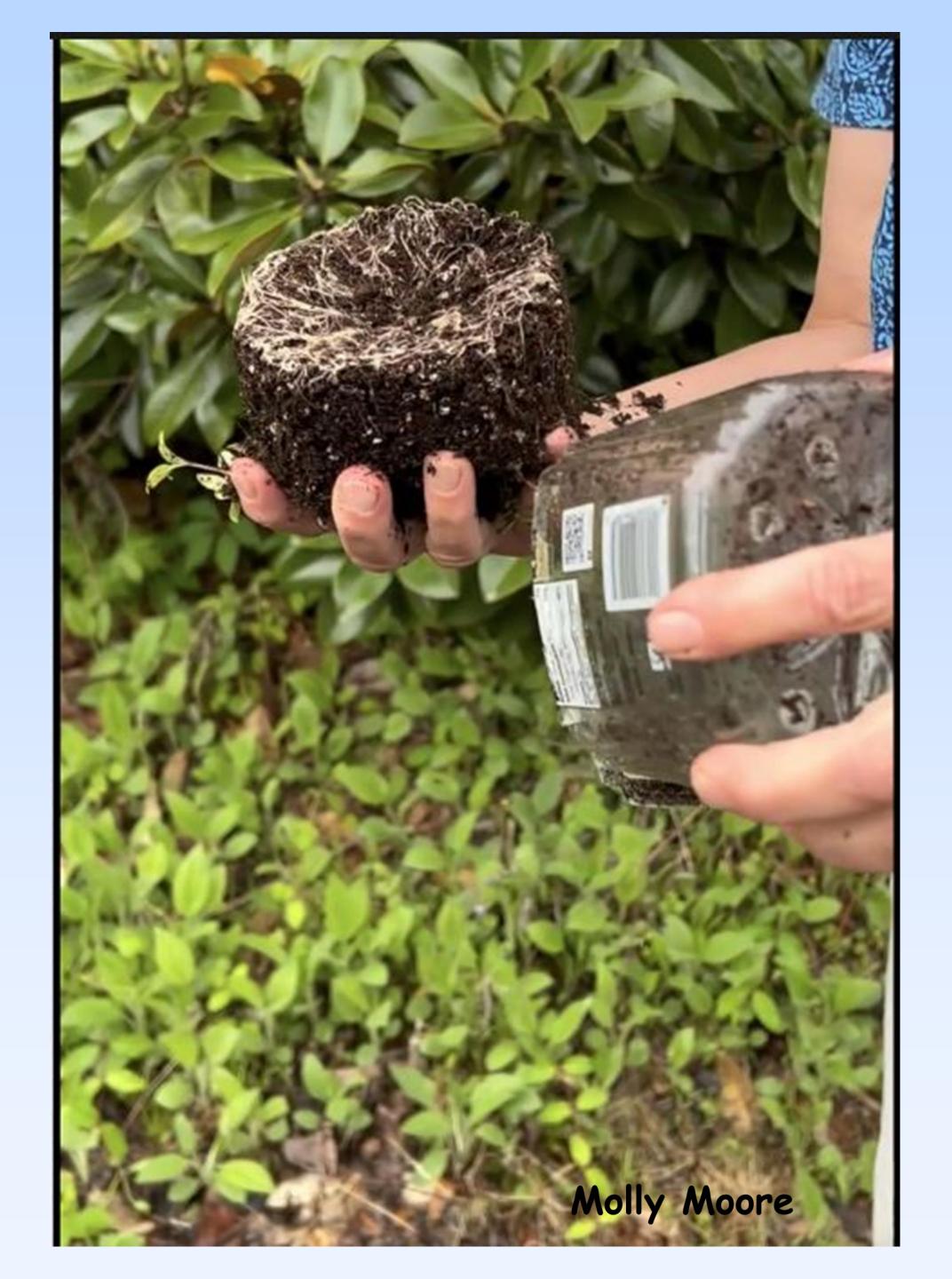
Winter sowing's secret to success



Strong roots!

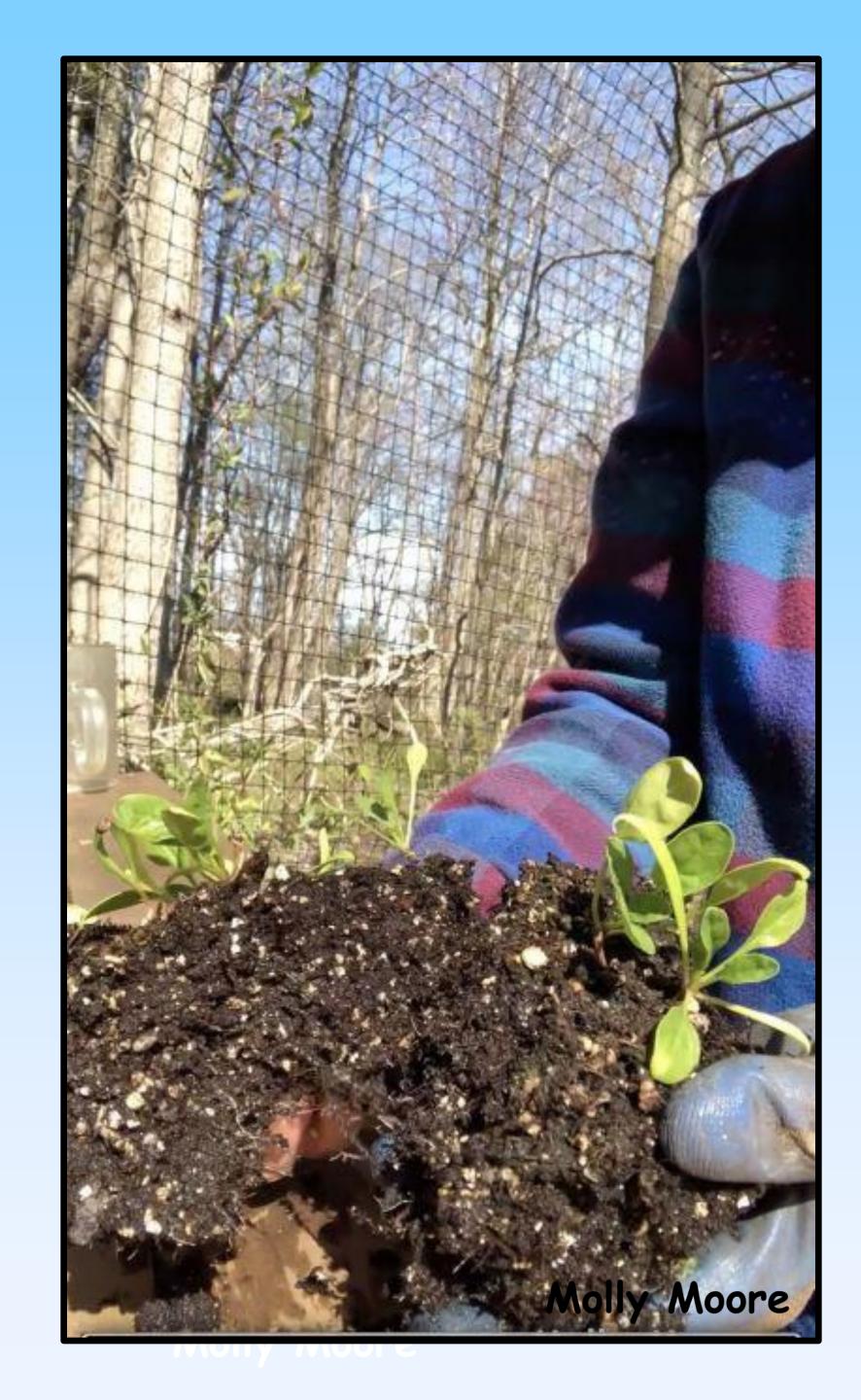


How to get the plants out!



Pull individual plants apart...

Gently!



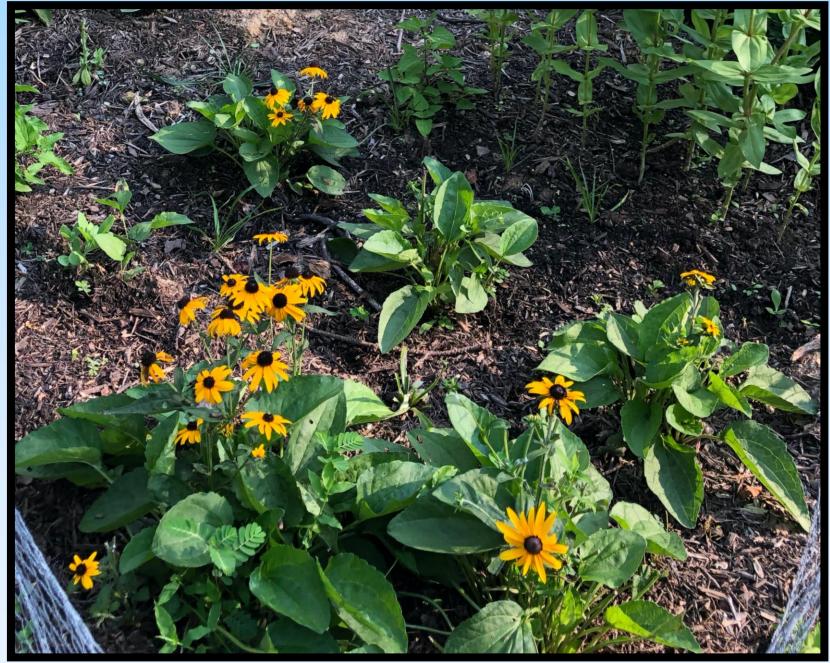
Pot seedlings for fall planting, neighbors, plant sales

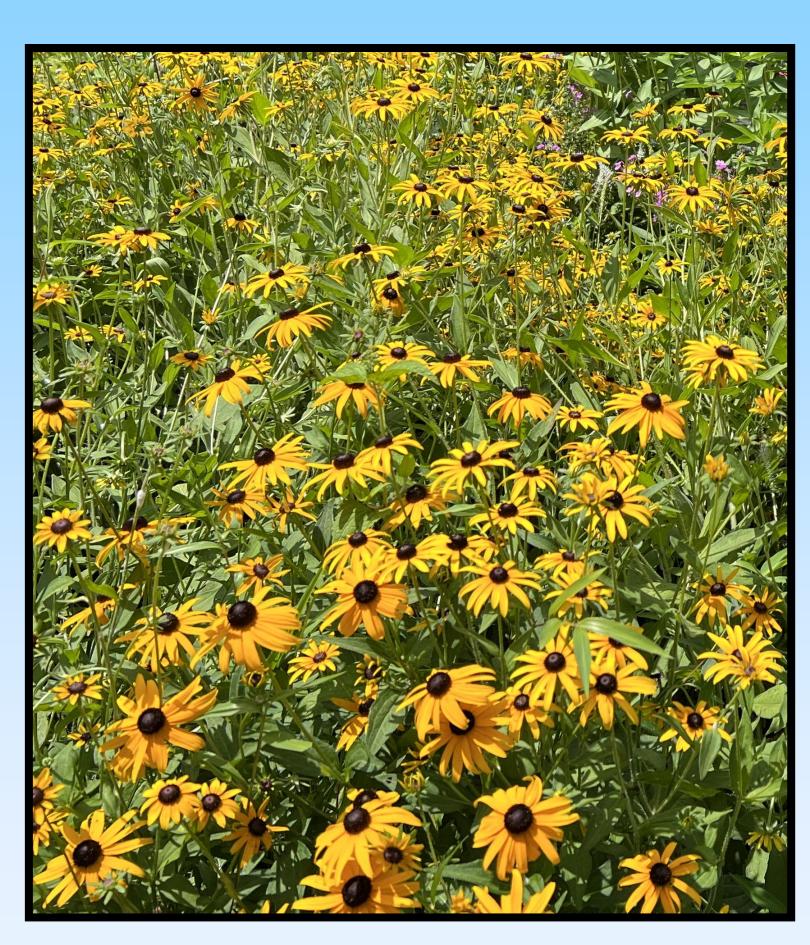




Sleep... Creep. Leap!







Season 1 Season 2 Season 3

Natives that reliably bloom in their first year



Spotted Beebalm Monarda punctata



Blue Mistflower Conoclinium coelestinum



Purple-headed Sneezeweed Helenium flexuosum



Seedbox Ludwigia alternifolia



Butterfly weed Asclepias tuberosa



Wrinkle Leaf Goldenrod Solidago rugosa

One year in a winter sown bird & pollinator garden

Aug. 8, 2021

August 8, 2022



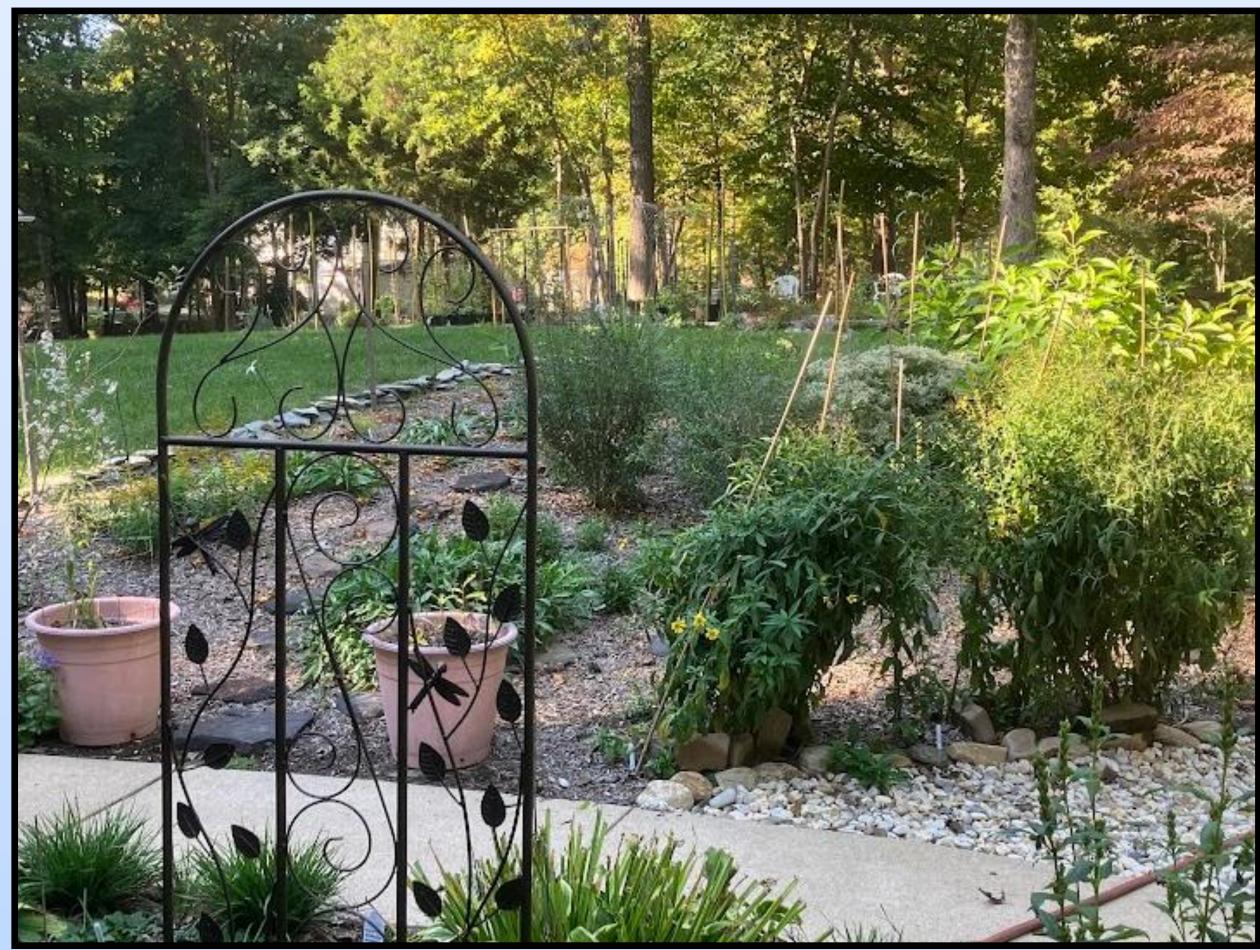


One year later in another winter sown garden

October 2021

October 2022





Winter Sowing in 10 Simple Steps

- 1. Collect and wash containers
- 2. Cut drain holes in bottom
- 3. Additional container prep
- 4. Prepare labels
- 5. Add potting mix and water thoroughly
- 6. Plant seeds
- 7. Seal container...and wait
- 8. Care for jugs and containers
- 9. Open in spring on warm days
- 10. Transplant seedlings













Resources

- "All the Dirt on Winter Sowing" recorded presentation by Charles County Master Gardeners. https://youtu.be/mhqT1kUVSk0
- "All the Dirt on Winter Sowing" PowerPoint presentation by Charles County Master Gardeners.
 - https://extension.umd.edu/sites/extension.umd.edu/files/2021-12/All%20the%20Dirt%20on%20Winter%20Sowing%20Power%20Point.pdf
- "Winter Sowing How to Grow Your Own Natives for Birds and Beauty" recorded presentation by Southern Maryland Audubon Society. https://youtu.be/K90v1HXzhmw





Resources

- Charles County Master Gardeners Native Plants webpage.
 https://extension.umd.edu/locations/charles-county/master-gardener/native-plants
- Audubon "Plants for Birds" webpage. https://www.audubon.org/plantsforbirds
- Winter Sowers Facebook group "Guides". https://www.facebook.com/groups/wintersown/learning_content
- Charles County Master Gardeners Resources webpage.

 https://extension.umd.edu/locations/charles-county/master-gardener/resources





UME Resources









go.umd.edu/hgic

go.umd.edu/askextensiomarylandgrows.umd.edu





PROGRAMS



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Questions?





