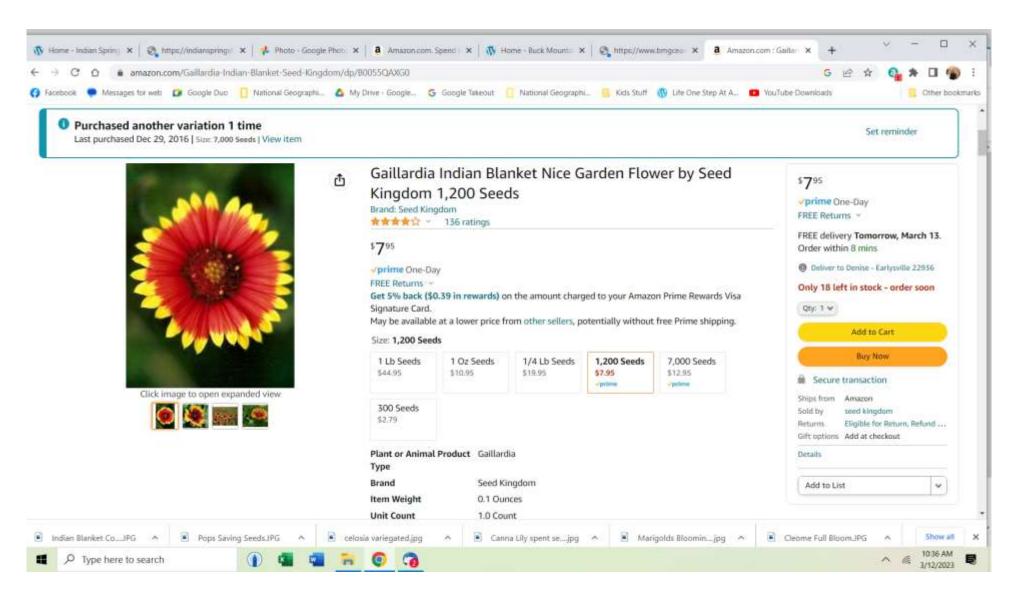
Basic (Flower) Seed Saving

Dee Walsh/Valerie Shepherd 3/13/2023 - BMGC

- -Save Money (Ex: 1200 Blanket Flower/Gaillardia seeds sell for \$7.95 on Amazon)
- -Fun (Can do it with friends, and in a closed/comfortable space)
- -Interesting to Learn About New Types of Flowers (Such as seeds from a bouquet!)
- -Volume (Can get *lots* of seeds, more over time enough to share
- -Sentimental Reasons (I think of my Dad when I see Marigolds, and of my friend Carl when I see Zinnias or Hollyhocks, and of Valerie when I see Well, so *many* things in my garden!)

Note: Seeds can be shared, but probably not sold as a product, because when saving seeds at home, it's impossible to guarantee that they will grow true to size/color, and that the seeds are not (inadvertently) mixed with other types of seeds, and/or that they are not elsewise contaminated (such as with fungus, mold, etc.)

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-Interesting to Learn About New Types of Flowers (Such as seeds from a bouquet!)





-Volume (Can get *lots* of seeds, more over time – enough to share)





All those gomphrenas – the ones in the truck – and all over the garage floor..... got smaller!

The ones on the bottom are seedheads; the ones on the top are "processed" — broken apart.



Volume, in terms of seeds, means that you can fill large spaces with relative ease and little expense.



-Sentimental Reasons (I think of my Dad when I see Marigolds, and of my friend Carl when I see Zinnias or Hollyhocks, and of Valerie when I see Well, so *many* things in

my garden!)



This is my father, still saving seeds at the tender age of 95.

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On the left: Can you see how "seed transfer" might possibly happen???

And on the right:
This celosia is naturally
mutated.... Variegated,
beautiful. But not 'pure'.



- 2) What Seeds to Save?
 - -Almost any flowering plant that has a discernible seed, and some that don't!
 - -I focus on self-seeding annuals and true perennials, including: Marigold, Zinnia, Gomphrena/Globe Amaranth, Celosia/Cockscomb, Hollyhock, Black-Eyed Susan (Rudbeckia) and Variants, Mexican Hat (aka Upright Prairie Coneflower), Coneflower (Echinacea), Rose Campion, Faux Sunflower, Daisy, Butter Daisy (Melampodium), Queen Anne's Lace, Yarrow, Hibiscus, Rose-of-Sharon, and Blackberry Lily.
 - -Anything you wish to have more of in your garden in future years.
 - -Select OUT what you don't want (in my case, it was "Zinderella" zinnias and white/cream marigolds.)



Marigolds, Above – Adding color well into late November!

Gomphrenas, Far Right

Zinnias, Center







Do you see it? Yes, Hollyhocks are Deer Food.

Another reason for..... "volume".



Featuring Plain Old Black-Eyed Susans in the "Experimental Garden"





Left:

Mexican Hat with partially mature seedhead.

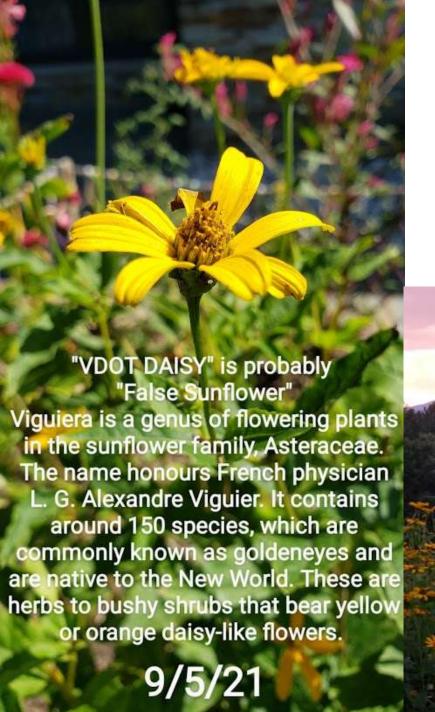
Center:

A simple coneflower in all her glory.

Right:

Rose Campion in bloom.





I called this "VDOT Daisy" for quite a time before I realized it was a type of Sunflower. It's bushy, grows vigorously with little care, and is about chest-height..... and I "liberated" a small handful of flowers (aka seed-heads) from the side of the road at the VDOT site on Free Union Road. Felt justified that my tax dollars were coming back to me in the form of flowers. (Ask for forgiveness, not permission, a wise person once told me.)





These Shasta Daisies were taken via rootstock from my father's garden. He got them to flourish; I can barely make them live each year, and have had very little luck growing them from seed.

Advice welcomed.



Melampodium

AKA "Butter Daisy" grows vigorously from seed each year. Although not a true perennial, it does 'self-seed' and will appear to come back, but it should be reseeded each year for best results.



Melampodium in full glory (with a few verbena and gomphs volunteering in there, too!)

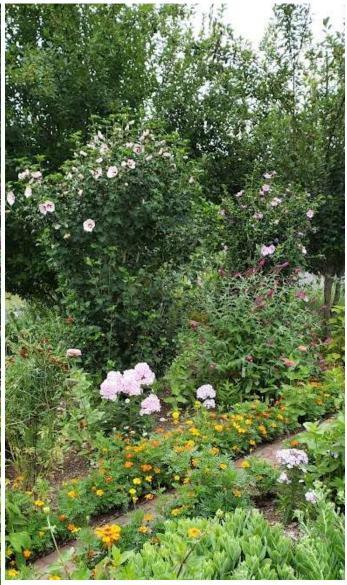


Yup, I stole this image of beautiful, simple Queen Anne's Lace from the internet. Gorgeous, right?!

The Yarrow at right demonstrates how some flowers bloom beautifully and die off.... Not so beautifully.









Blackberry Lily in all life cycles

Rose of Sharon; mature upright bushes of slightly different colors

Hibiscus, grown from a single seed from my father-in-law's potted plant. I was surprised that it grew, and even more surprised that it survived the winter!

Did you forget where we were on the handout? We were here!

2) What Seeds to Save?

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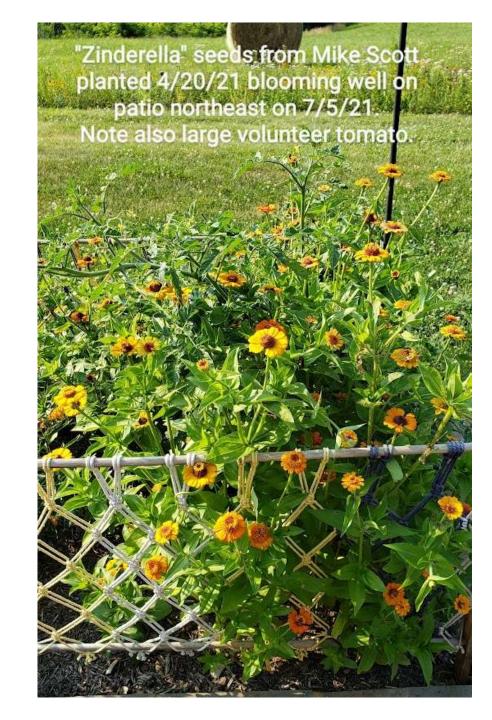
2) What Seeds to Save?

-Select OUT what you don't want (in my case, it was "Zinderella" zinnias and white/cream marigolds.)

I didn't like the way the white/cream marigolds died — they were truly ugly, and unless you dead-headed every day, it made the others simply look bad..... And the Zinderellas were too small for my taste. Too much foliage for such a small bloom.

And I have also chosen to remove most of the white yarrow from my cultivated beds — but they're fine in the naturalized areas.

I am trying, with little success to propagate the yellow and red varieties of yarrow.





- -In husks (Marigold, Sweet William)
- -In pods (Blackberry Lily, Canna Lily, Nigella, Rose Campion, Hollyhock, Cleome)
- -On stems or stem supporting foliage (Celosia/Cockscomb)
- -In the core of the flowerhead (Coneflower, Zinnia, Rudbeckia, Melampodium)
- -Who knows? Some are too tiny to see!

3) Where *ARE* Those Seeds, Anyway? -In husks (Marigold, Sweet William)



The Marigold pictured here were gifted to me by Bucky's brother's wife's father (you figure that one out!)

They were VERY full, and I felt that the petals needed to be clipped off to prevent molding.

You can see the husks containing the seeds on the right.

Sorry, no photo of dead Sweet William seeds until....



Now!

Isn't Sweet William pretty even when it's dead?

And here's what you might get if you did collect the seed of the lovely Sweet William!







-In pods (Blackberry Lily, Canna Lily, Nigella, Rose Campion, Hollyhock, Cleome)









-In pods (Blackberry Lily,Canna Lily, Nigella, RoseCampion, Hollyhock, Cleome





-In pods (Blackberry Lily, Canna Lily, Nigella, Rose Campion, **Hollyhock**, Cleome)

On the left, the Hollyhock seeds are immature and probably not viable.

On the right, the seeds are mature and ready to harvest.





-In pods (Blackberry Lily, Canna Lily, Nigella, Rose Campion, Hollyhock,

Cleome)

Cleome seed pods (here shown not yet ripe enough to harvest) tend to dry out and pop open *quickly*, and so you need to monitor them closely if you want to gather some seeds before Mother Nature spreads them indiscriminately...



On stems or stemsupporting foliage(Celosia/Cockscomb)





-In the core of the flowerhead

(Coneflower, Zinnia, Rudbeckia,

Melampodium)





-In the core of the flowerhead (Coneflower, **Zinnia**, Rudbeckia, Melampodium)

On the left, the Zinnia is still relatively fresh, and the seed is whitish- immature.
On the right, the flower is spent, and the seed is dark — mature.



-In the core of the flowerhead (Coneflower, Zinnia, **Rudbeckia**, Melampodium)



- 3) Where ARE Those Seeds, Anyway?
- -In the core of the flowerhead (Coneflower, Zinnia, Rudbeckia, Melampodium)

$$(x+a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$$

Just waking you up!

I want to show you a slide you've seen before.....

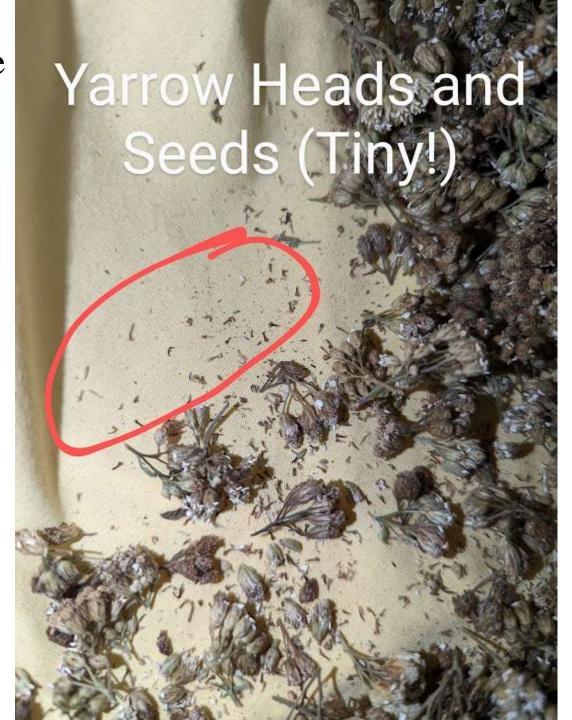


Melampodium

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3) Where *ARE* Those Seeds, Anyway?

-Who knows? Some are too tiny to see!



(And don't forget that slide you saw before, of the lovely Rose Campion and her tiny seeds!)

- 4) Deciding When to Harvest
 - -Best to take from flowers that are naturally spent/withered
 - -Seeds should be mature but not yet released naturally onto the ground/in the air
 - (It's a tricky balance, trying to let seeds mature naturally vs. having them eaten by animals or strewn by the wind!)
 - -Avoid harvesting after a rain or heavy dew; the flower heads should be DRY.
 - -Anytime after a killing frost (even if not yet fully spent)
 - -Mature seeds are usually dark(er). Examples shown today: Marigold, zinnia, gomphrena, canna lily, hollyhock, blackberry lily

4) Deciding When to Harvest

-Best to take from flowers that are naturally spent/withered



Gomprhenas pictured here; you get the idea.....

And if you're still not sure about what's "young" and what's "mature", Mother Nature points it out with these side-by-side Strawflowers.



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(It's a tricky balance, trying to let seeds mature naturally vs. having them eaten by animals or strewn by the wind!)

This, by the way, is the bear looking for seeds that are

"just perfect!" →



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4) Deciding When to Harvest

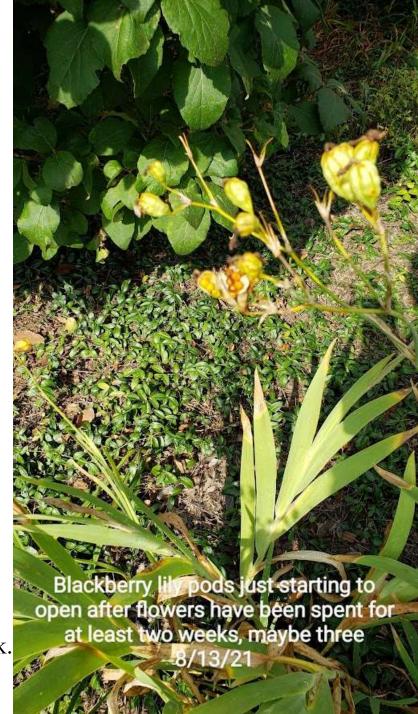
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Marigold seeds on the left are darker (twotoned) and mature; on the right they are not.

Fully mature
Blackberry Lily
seeds will be dark black.



5) Harvesting Methods

- -Cut/Pinch off heads
- -Pull up whole plant (good for measuring height if you don't have time to measure and sort on the fly)
- -Make use of sheets, tarps, buckets for laying out piles/sorting

5) Harvesting Methods

-Cut/Pinch off heads.....

Yes, self evident, basic, easy-as-pie!

But – I bet you've never tried it with *these flowers*!!



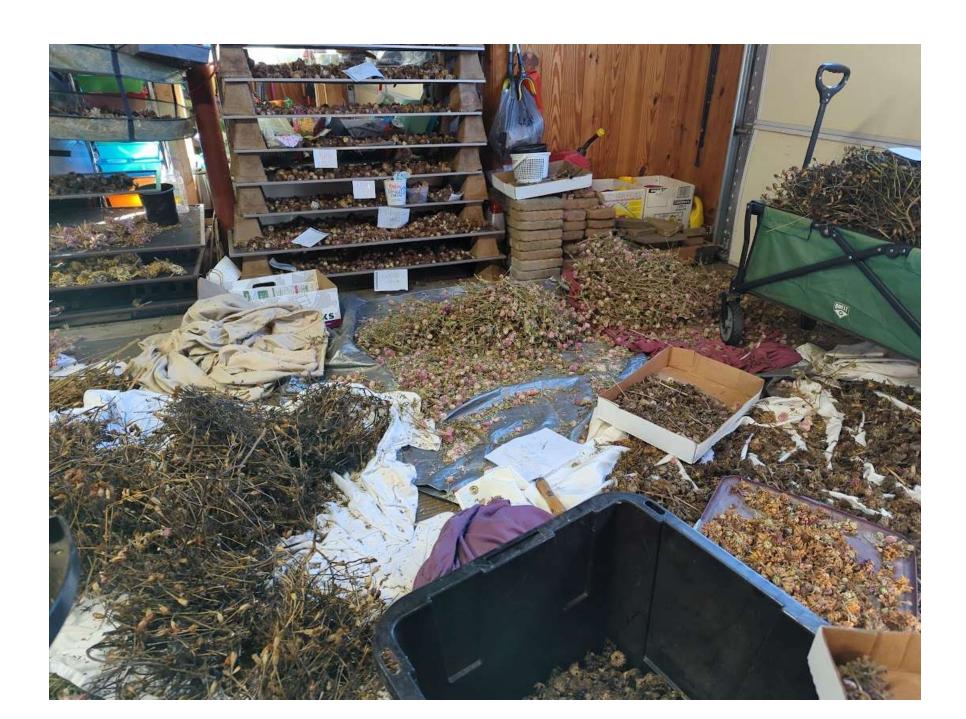
Who among you guessed that they were *Wooden*??

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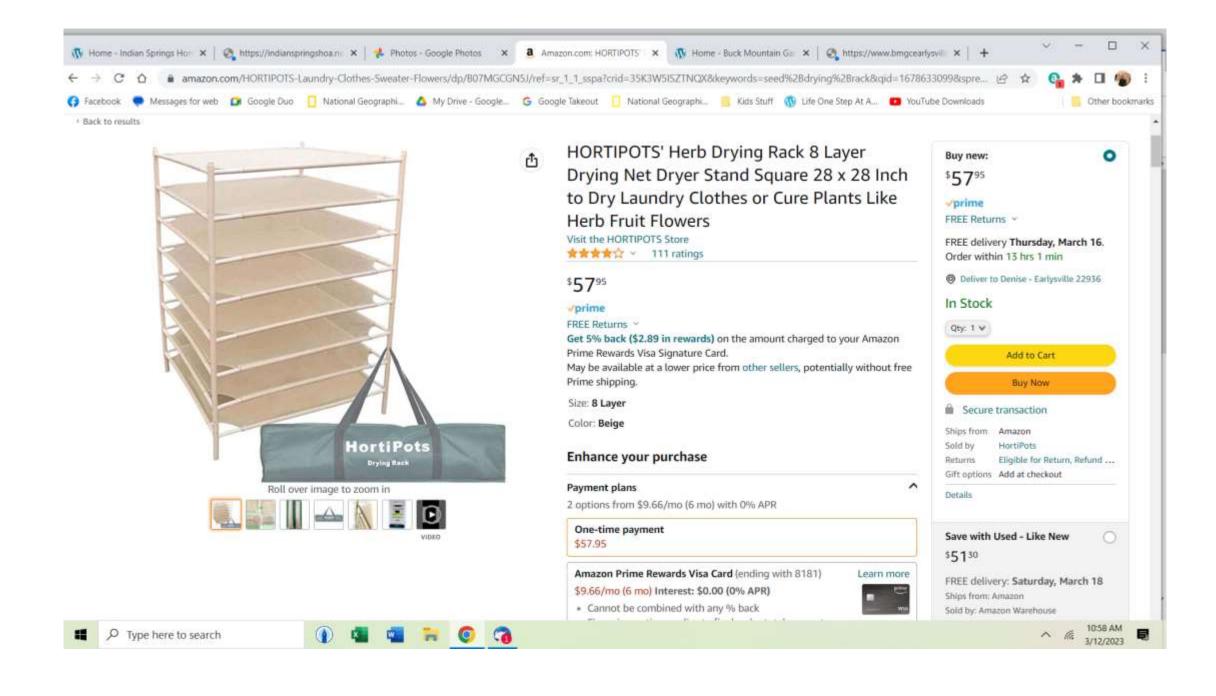
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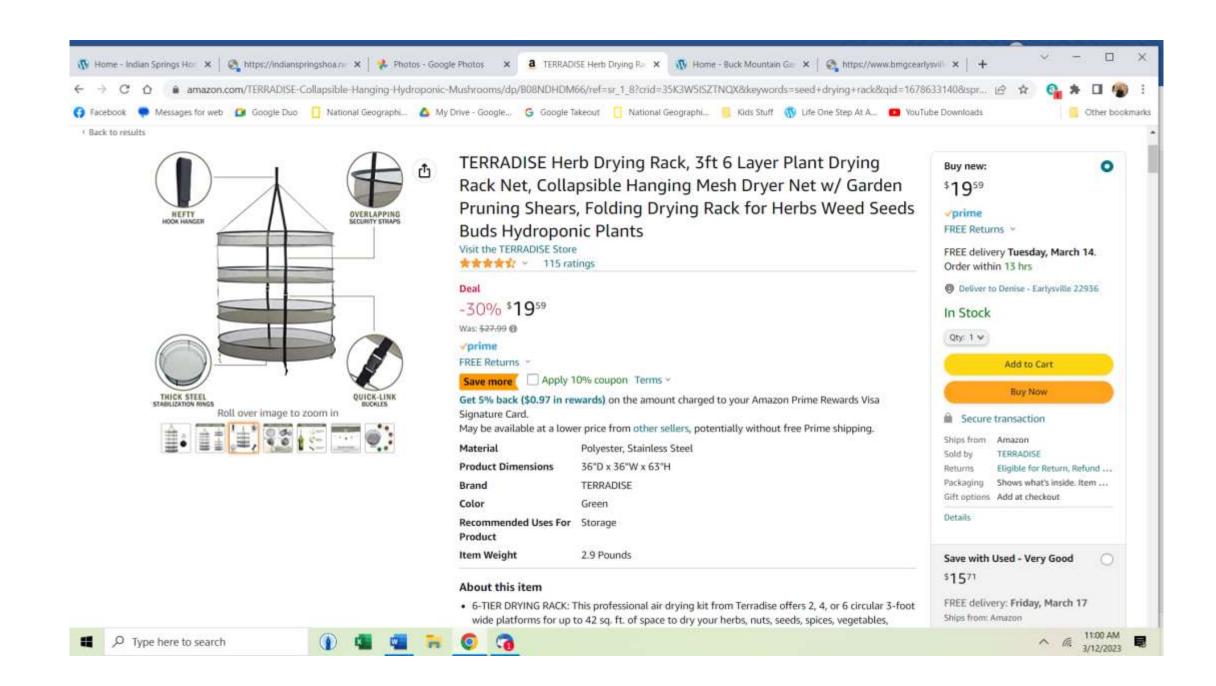


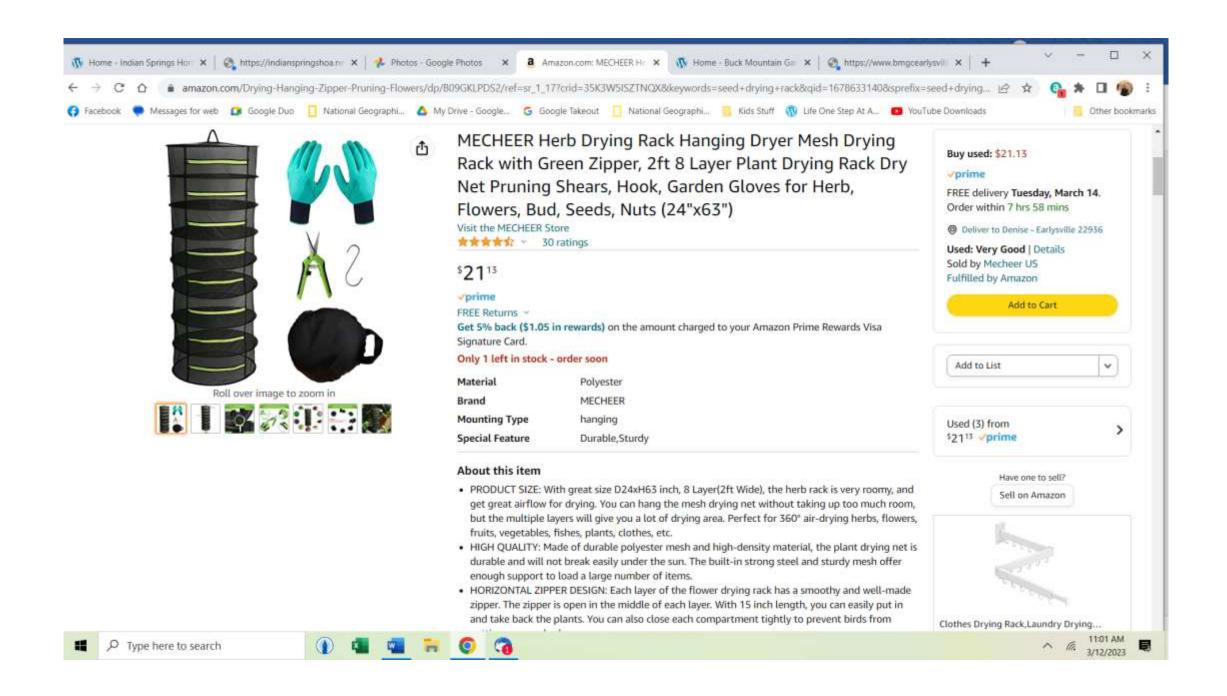
- 6) Drying/Storing Your Seeds
- **-Ventilation** to prevent molding is your #1 priority!
- -If seeds/seedheads are clumped or stored together, separate them as much as possible for example, stir a large bucket of seeds with a broom handle or your hands on a regular basis.
- -Drying racks are readily available. Examples of commercially available racks, circular hangers are attached. I make my own by using almost anything at hand: old window/door screens (Habitat for Humanity is a great source), mesh/sheer fabric, meshed packing materials, stringing sheaves of flowers up-side-down over catch basins there's no limit to the imagination for ways to dry seeds!
- -If there's a great deal of foliage, and you are risking a mold problem, consider trimming the petals off. This is time-consuming (but does have a certain relaxing Zen factor to it.) Another potential disadvantage is losing some seed along the way.
- -Seed heads should be fully dried before "processing" them (collecting the seed), and they can stay on the drying racks for months, until it's convenient for you to open them.
- -If you're storing seeds in a garage or shed that is sometimes exposed to air (like when the garage doors are open), be aware that wind/drafts can be a problem you don't want all your hard work to blow away in the breeze!
- -Fans are useful in the more humid summer months to keep the humidity down.
- -IF you notice any mold in a group of seedheads, remove them and surrounding heads and dispose of them promptly. They pose a threat to all your other seeds, and they're not worth trying to save.

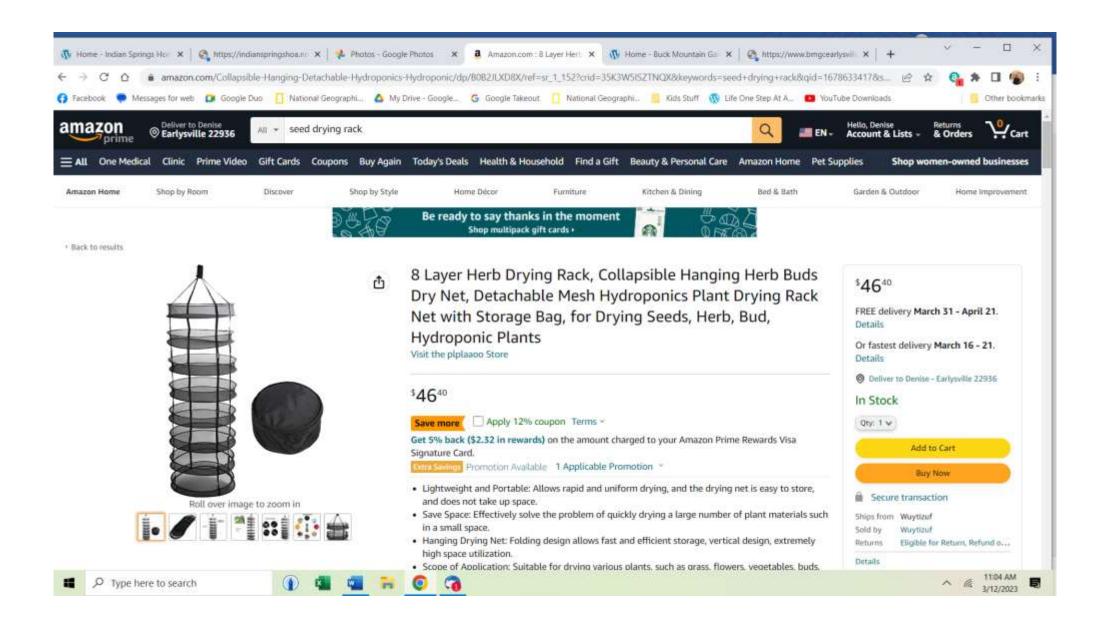
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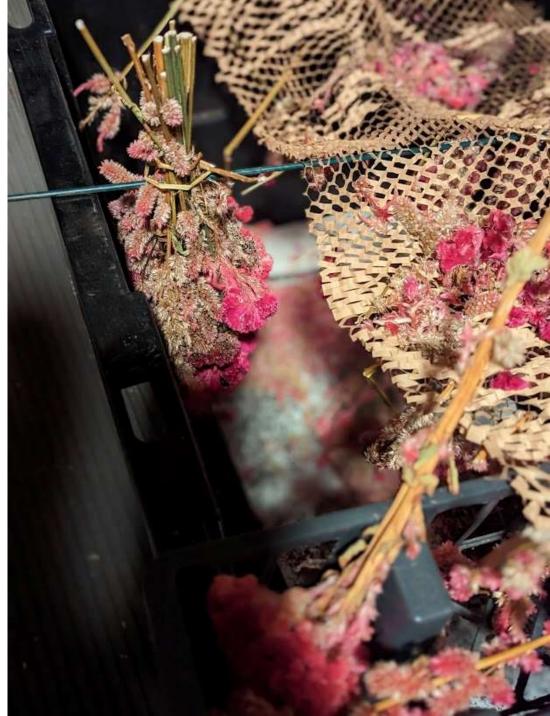






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and Although it sounds opposite of the warning about drafts......

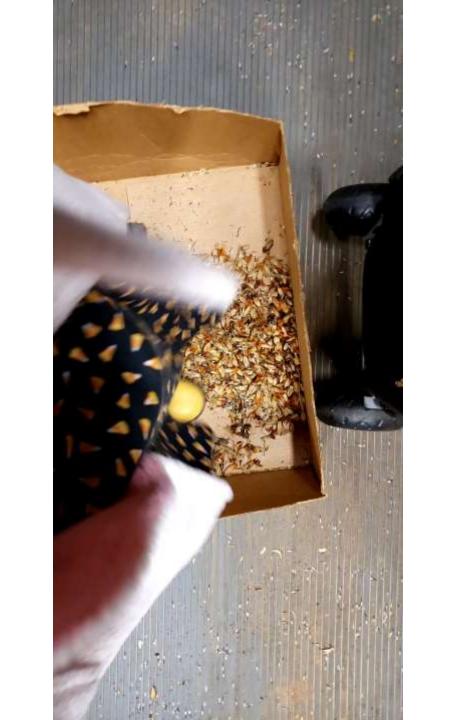
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- 7) "Processing" Your Seeds Getting the Seeds Out of the Flowers and Ready to Sow!
- -For seeds in husks, you can break them by hand, or crush them. Stomping them is pretty cathartic.
- -For seeds in pods, there's little else to do than to open them by hand.
- -For seeds in a core, you can easily break them by hand, or you can crush them.
- -For seeds on stems/in foliage, hanging them upside-down will usually release most of them. You can get the rest by shaking/tapping/beating them.
- -For seeds that are nestled in flower-heads, and that are so tiny you can hardly see them, you can just shake the seed-head to release the seeds.
- -For stomping: Try using a big box. Tape the voids/corners. If you want, line with an old sheet. Dump seedheads into the box, put on a big pair of boots, and channel Lucille Ball stomping grapes. It works.
- -For beating: Get a big, heavy plastic jug, add a few golf balls and seed heads and shake it vigorously. The golf balls (or smooth roundish stones) beat the seeds right out (and occasionally they'll crack the jug, too be careful.)
- -For hand-opening husks, pods, and very compact flower-heads: Use lightweight rubber (exam) gloves, get a good chair and maybe an audiobook, and go to it. Very compact heads or spiky heads (such as Rudbeckia and Coneflower) might require the assist of a pincer-like hand tool to pull apart the heads.

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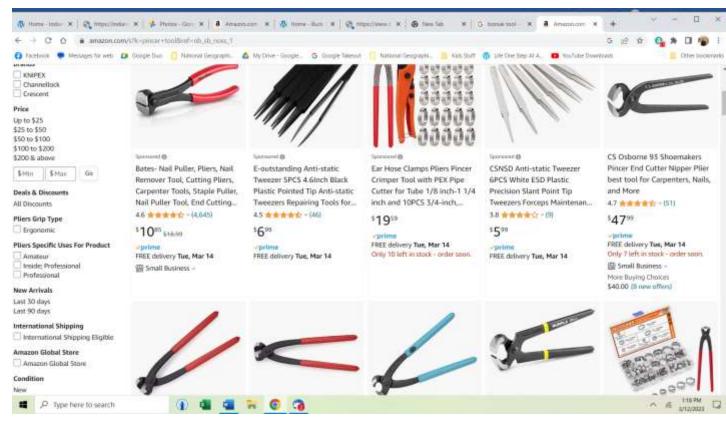


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8) Final Thoughts:

- -If you're invested in sowing flowers from seeds, I'd suggest taking a lot of notes, and photos during each step of the process (and *labeling* them). This will help you remember as you go along.
- -Gifts of seeds are most often very welcome (and inexpensive to share!)
- -Giving a bouquet of flowers back to someone who has given *you* the seeds is especially meaningful.
- -Be aware of the "Bear in a China Shop" syndrome. I am, myself, most often that bear I cannot tell you how many times I've knocked over a tray of seeds I just sorted, or dropped a bucket and mixed seeds here and there..... best just to take it slow and easy, especially if your space is cramped.
- -Unused envelopes, such as from organizations requesting donation, make great seed-sharing containers. I also save paper bags from just about everywhere: pharmacy bags, fast-food bags, you name it. All can be re-used. I also save small pill bottles, jugs (like M&M containers) and so on for the larger stuff but those should be *ventilated*. Paper products are best for long-term storage, as they "breathe" more readily. Never use Ziploc or plastic bags!











Save enough seeds to transform this......



Into something fun!



Useful References (Only a few of many) — feel free to recommend any others that you like!

The Complete Guide to Seed Saving by Robert Gough and Cheryl Moore-Gough, 2011, Storey Publishing

Annuals, Perennials & Bulbs by Anne Halpin, 2001, Creative Homeowner Press, pp. 39, 117, & multiple others specific to flower types

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The Flower Garden: How to Grow Flowers from Seed by Clare Foster and Sabina Rüber, 2019, Laurence King Publishing

Garden Flowers From Seed by Christopher Lloyd and Graham Rice, 1991, Penguin Putnam Publishing

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Or in printable PDF format at:

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