

02.08.26 CSDS Meeting; Spring Propagation:

Waking up tubers/planting tubers, taking cuttings, potting up rooted cuttings.

Prepared by Mike Hartel, 1st Vice President, Central States Dahlia Society

Bio:

- I joined CSDS in Fall of 2011.
- I have no gardening background, cut lawns as a kid, did lots of yard work... but no gardening, etc.
- First few years I grew plants from our Spring sale or plants other members gave me.
- I finally began propagating around 2016... not entirely sure.
- I grow 22 plants in the ground and about 20 more in large pots. I also grow 15 pot tubers.
- I dig/divide and store my tubers; I use the plastic wrap storage method and store my tubers in refrigeration, about 44 degrees F.
- The 2024 growing season yielded 235 tuber divisions, of which 218 survived/did not rot.
- Last Spring, 2025, I took 451 cuttings of which 428 grew into plants; Not all the tubers yield cuttings.
- I did not take an inventory of my remaining tuber plants, but I had quite a lot.

Objectives:

- **How to wake up tubers; in bags or in pots**
 - CSDS Tuber Auction is March 8, so we need to be ready!
 - Target mid-February to start this process, if not sooner!
- **Taking Cuttings**
- **Potting Rooted Cuttings**
- **Growing Potted Cuttings**
 - CSDS Sale is May 2-3, we welcome donations of any spare ADS Classified plants you may have!

Timing:

- ***Frank Campise always said start around Valentines Day.***
- **Waking Up Tubers: 2-3 weeks for eyes to develop**
 - In Bags: 2 weeks then pot them up.
 - Or just put Tuber Divisions into pots of soilless mix.
- **Taking Cuttings: About 4 weeks after first eyes.**
 - Plant Cuttings in Oasis wedges.
 - Plant Cuttings in pots of soilless mix.
 - Last year I took cuttings for 11 weeks.
- **Potting Cuttings: 10-21 days after cutting**
 - Roots typically develop in 10-14 days after
 - Pot the cutting in the Oasis wedge in pots of soilless mix.

- **Waking up Tubers:**

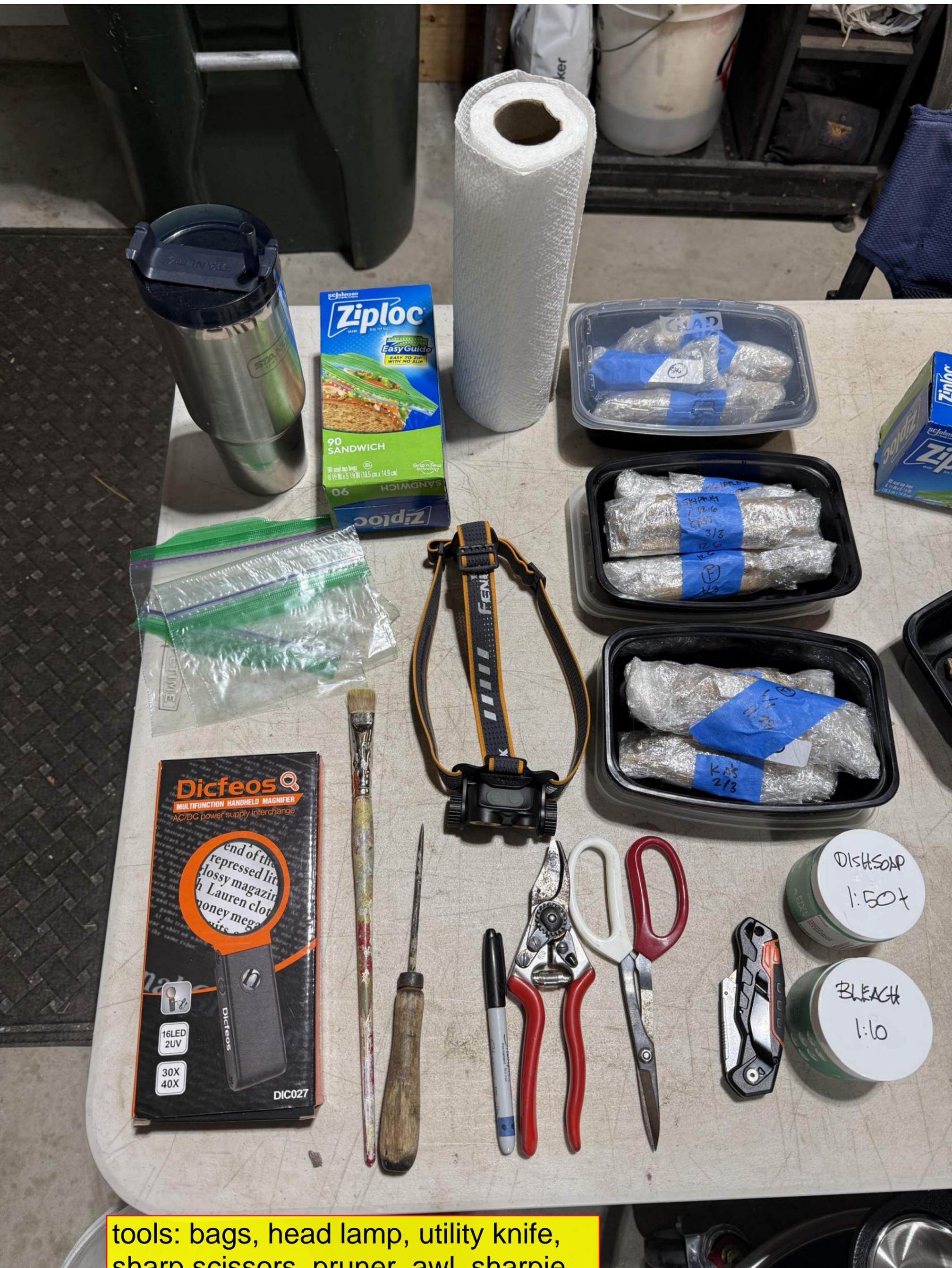
- When: For the auction, tubers need to have eyes. Target mid-February to start this process.
- Supplies:
 - Plant Labels and Sharpie
 - Pruning tools to clean up Tubers: scissors, Exacto Knife, brush, bleach mixture and soap mixture, paper towels.
 - Zip Lock Bags (sandwich, quart and gallon... depending on tuber size)
 - Or straight into pots, 4x4 or equal.
 - Soilless Mix, I am using [Promix](#) with Mycorrhizae (3.8 cu.f.)from Ace Hardware this year. Others use [Pesche's Premium Potting Mix](#) (2.8 cu ft... sold out at time of writing)
 - 1020 or bread Trays
 - Soil Moisture Meter: [4-in-1 Meter from Amazon](#)
 - Darkness and warmth
 - Remote Thermometers: [Govee](#)
- Put tuber divisions in Ziplock bags with soilless mix, the mix should **not** be completely dry, but have a bit of moisture, enough to feel to the touch, but not clump the soilless; too much moisture will rot the tuber... the tuber is basically its own water supply.
- The Ziplock bags may remain open or sealed
- I seal them then check a week into storage to check for excessive moisture in the bag, if so, then I open them a bit.
- Then store the bags in the dark at minimum 70° F (22° C); my basement utility room is perfect as it is small and has both the furnace and water heater in it. I use a remote thermometer to monitor temperature
- If you don't want to do bags, just put the tuber divisions into pots in lightly moistened soilless mix, same temp and keep them in the dark to keep from early eyes sprouting too quickly.

- **Eyes on Tubers:**

- It takes about two to three weeks for eyes to develop.
- Note: Tuber Auction is 03.08.26 this year, so target 02.15 to 02.22.26 Frank Campise always said that February 14th is not only Valentines Day; it is also the day to start Propagation):
- 11 to 14 days after bagging up I had eyes and sprouts on my tubers last year.
 - I assume the timing would be the same for tubers in pots.



Dahlias ready to be bagged.



tools: bags, head lamp, utility knife, sharp scissors, pruner, awl, sharpie, brush, magnifying glass



Blackha
to Ca

BASKETBALL
NCAA MEN

When words fail, let us help.

Resolu
Come
Peace
is For

A black plastic tray containing several items wrapped in clear plastic bags. A blue paper bag is prominently placed in the foreground with the handwritten text:

K HARRY
BEG
3

A clear plastic container filled with funeral home advertisements. The ads include:

- Funeral Services**
- Strang Funeral Home of Antioch**
1053 Main St., Suite 837
Antioch, IL 60119
847-395-4000
strang.com
- Thompson Spring Grove Funeral Home**
8103 Wilmot Road
Spring Grove, IL 60178
815-675-0550
thompsonspringgrove.com
- U.S. Rosedale Chapel**
1505 S. Lake St.
Roselle, IL 60170
630-889-1700
usfuneralhomes.com
- Conley Funeral Home**
116 W. Pierce St.
Elburn, IL 60120
1-800-8-CONLEY
conleycare.com
- Geils Funeral Home**
180 S. York Road
Bensenville, IL 60015
260 W. Irving Park Rd.
- Hultgen Funeral Home and Cremation Services**
304 N. Main St.
Wheaton, IL 60187

WOMEN'S BASKETBALL

Rank	Team	Points	Reb	Ass	Stl	Blk	Pct
1	South Carolina	162	717	1	1	1	71.7
2	North Carolina	162	687	1	1	1	71.7
3	UConn	26	614	1	1	1	71.7
4	UConn	17-2	598	1	1	1	71.7
5	UConn	19-1	595	1	1	1	71.7
6	Kansas State	19-1	504	1	1	1	71.7
7	Kentucky	19-1	491	1	1	1	71.7
8	Ohio State	16-1	438	1	1	1	71.7
9	North Carolina	17-1	426	1	1	1	71.7
10	Duke	17-3	394	1	1	1	71.7
11	Oklahoma	15-4	395	1	1	1	71.7
12	West Virginia	15-3	302	1	1	1	71.7
13	Tennessee	15-3	259	1	1	1	71.7
14	Georgia Tech	16-3	248	1	1	1	71.7
15	Alabama	17-3	210	1	1	1	71.7
16	NC State	17-3	209	1	1	1	71.7
17	Michigan State	14-4	197	1	1	1	71.7
18	California	15-3	179	1	1	1	71.7
19	Minnesota	17-3	148	1	1	1	71.7
20	Michigan	17-3	148	1	1	1	71.7
21	Illinois	13-5	62	1	1	1	71.7
22	South Carolina	16-3	57	1	1	1	71.7

WOMEN'S BASKETBALL - MIXED DOUBLES

Third Round
Michael Venus and Erin Routliffe (2), New Zealand, def. Alexandra Panova (Russia) and Lloyd Glasspool (Britain) (walkover).

Kevin Krawietz (Germany) and Ellen Perez (Austria), def. Alex Bolt and Phillipa Fearn (Australia), 7-6, 6-4.

TENNIS

AUSTRALIAN OPEN

WOMEN'S SINGLES

FOURTH ROUND

WOMEN'S SINGLES

MIXED DOUBLES

THIRD ROUND

MIXED DOUBLES

FOURTH ROUND

MIXED DOUBLES

FOURTH ROUND

MIXED DOUBLES

FOURTH ROUND

MIXED DOUBLES

Cremation Society of Illinois
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1-800-973-4321
giancolafuneral.com

Kolssak Funeral Home
189 S. Milwaukee Ave.
Wheeling, IL 60090
(2 blocks south of Dundee Road)
847-537-6600
funerals.pro

Smith-Corcoran Funeral Home
165 E. Northwest Highway
Palatine, IL 60067
847-359-8020
6150 N. Cicero Ave.-Chicago
773-736-3833
1104 Waukegan Road
Glenview, IL 60025

Kisselburg-Walton Funeral Home
235 N. Main St.
Wauconda, IL 60180
847-571-1111
kisselburgwaltonfuneralhome.com

Strang Funeral Chapel and Cremator
410 E. Belvidere Road
Grayslake, IL 60138
847-271-1111

Hultgen Funeral Home and Cremation Services
304 N. Main St.
Wheaton, IL 60187

Tubers unwrapped, cleaned and labels made



WANDA'S AURORA AA 2010

Kolssak Funeral Home
189 S. Milwaukee Ave.
Wheeling
(2 blocks south of Dunder Road)
847-537-6600
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Smith-Corcoran Funeral Home
185 E. Northwest Highway
Palatine
847-359-8020
6150 N. Cbero Ave.-Chicago
773-736-3833
1109 Waukegan Road
Glenview
847-901-4012
smithcorcoran.com

Kisselburg-Wauconda
Funeral Home
235 N. Main St.
Wauconda
847-526-2115
kisselburgwauconda.com

Strang Funeral Chapel
and Crematorium, Ltd.
410 E. Belvidere Road
Grayslake
847-223-8122
strangfuneral.org

For information regard
funeral d
please call the Bonnie at the Obituary F
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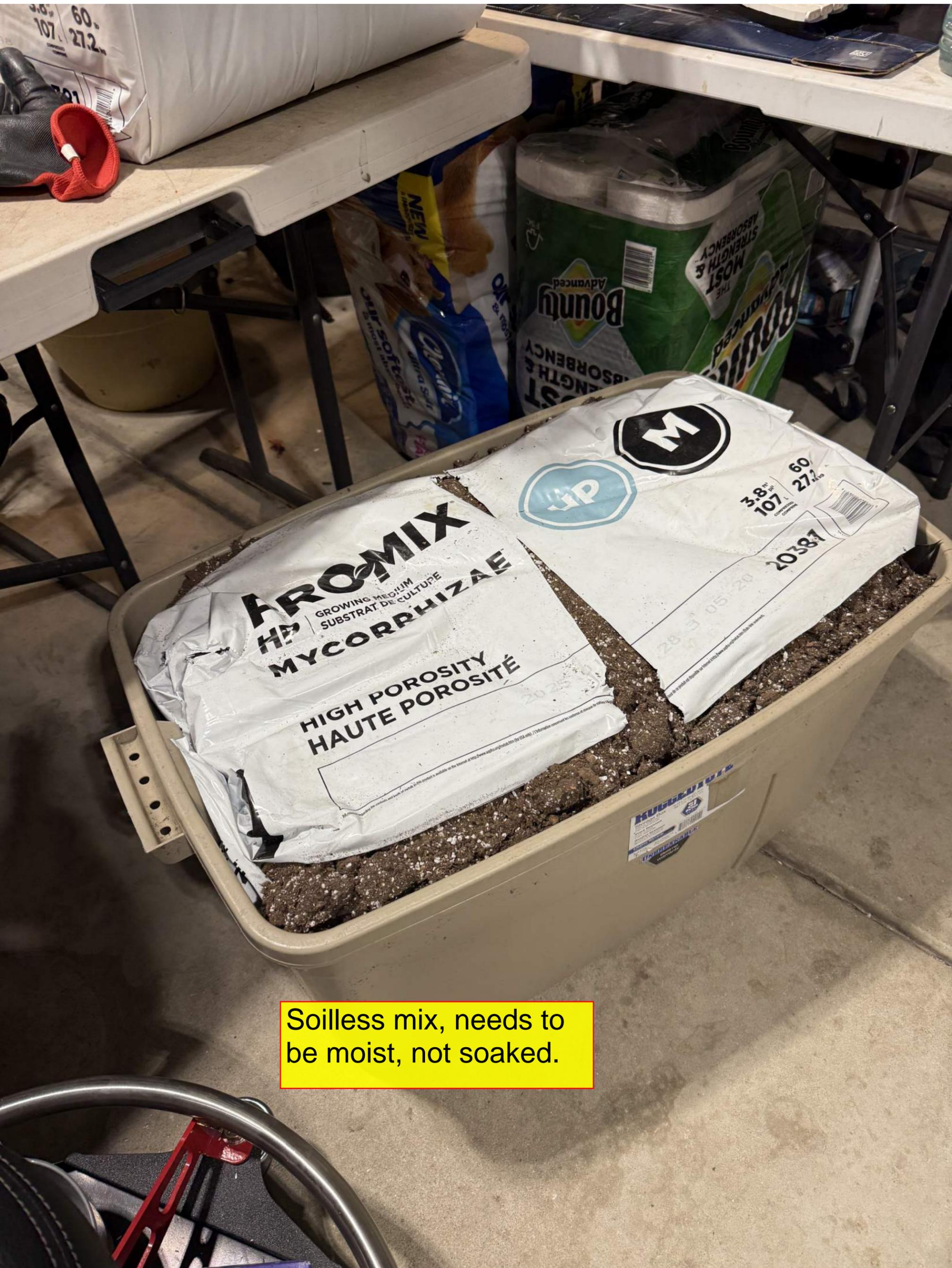
3.5.23
11.29.23

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Tubers staged for bagging



Soilless mix, needs to be moist, not soaked.



Moisture level about 30%:
moist, but will not clump.
Tubers have moisture,
and will rot if soilless is
too wet.



BQ JEAN
V17 (F)

BQ JEAN
V17 (F)

BQ JEAN
V17 (F)



Put enough soilless in the bags to cover the tuber, one tuber division per bag.



Bagged up and ready for storing in the dark.



I put my pot tubers in with the bagged tubers.

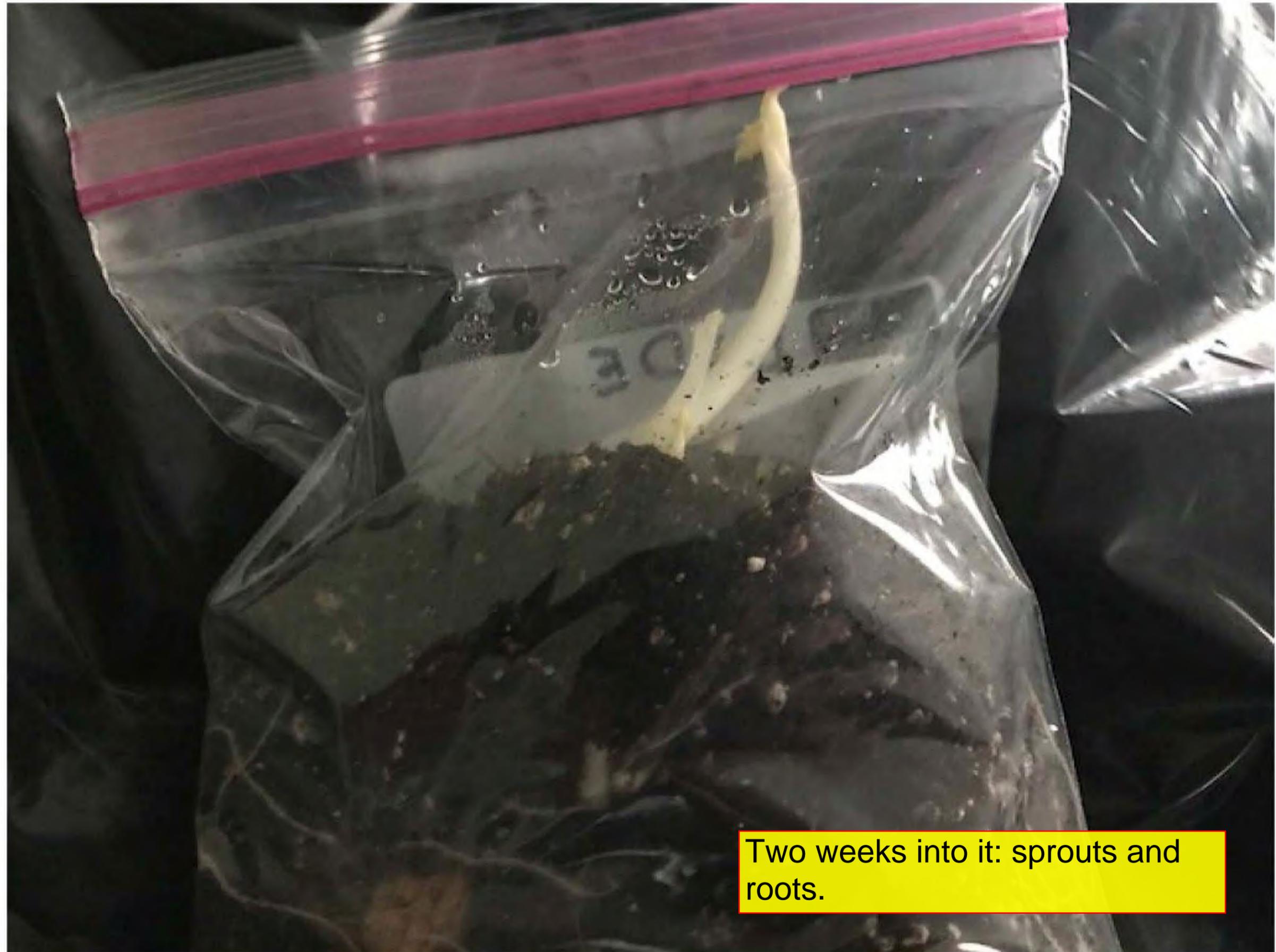


Store in darkness about two weeks. 70 degrees or warmer (my utility room works well). Check tubers for moisture/condensation about a week into storage, if a lot of it, open the bags.

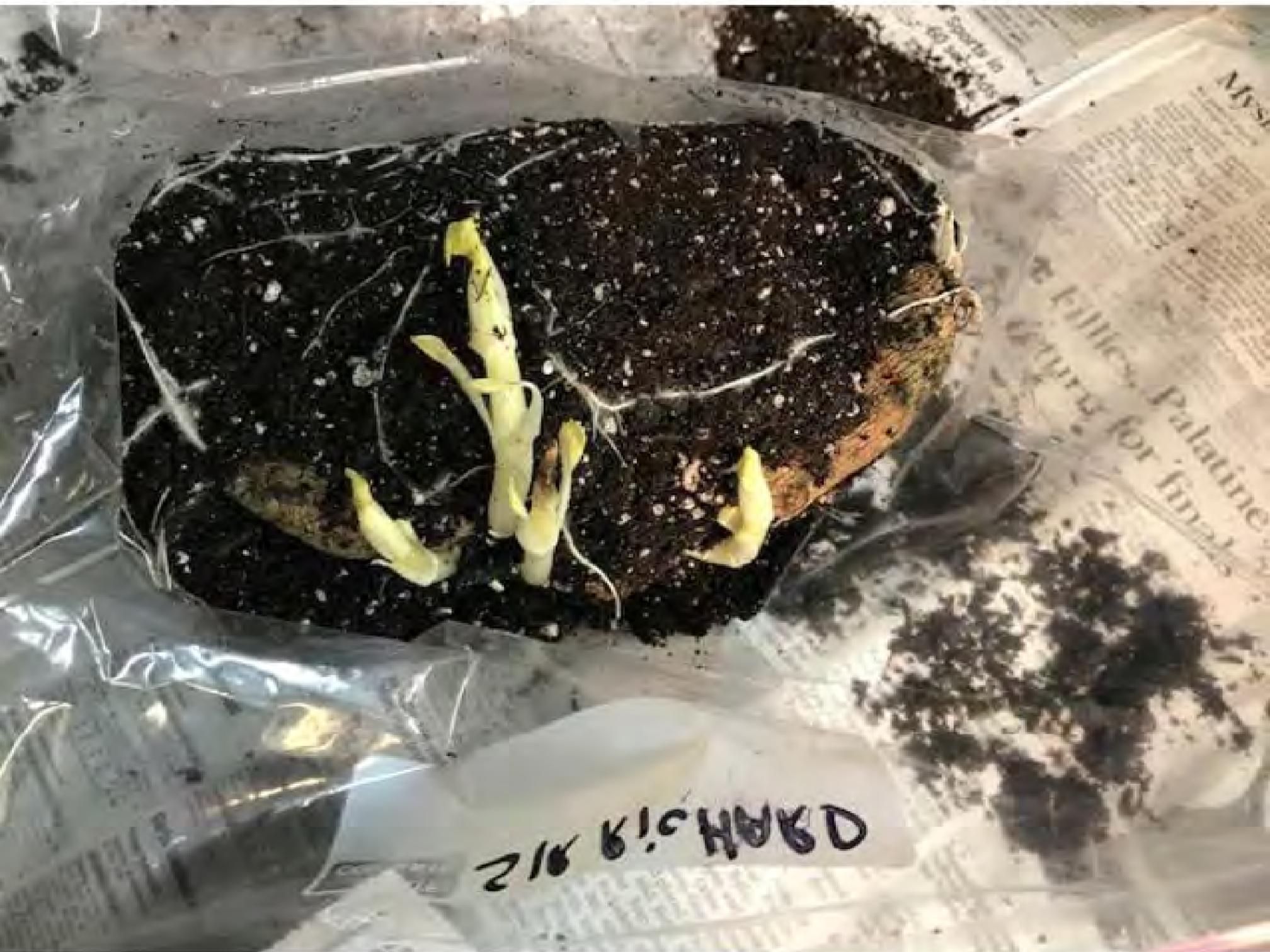


white
lines:
roots

Two weeks into it: sprouts and
roots.



Two weeks into it: sprouts and roots.



Carefully cut open the bags in order not to damage the sprouts or roots.



Carefully cut open the bags in order not to damage the sprouts or roots.



I did an experiment with unknown tubers: moist paper towel in the bag... the tubers eyed up, see next page.

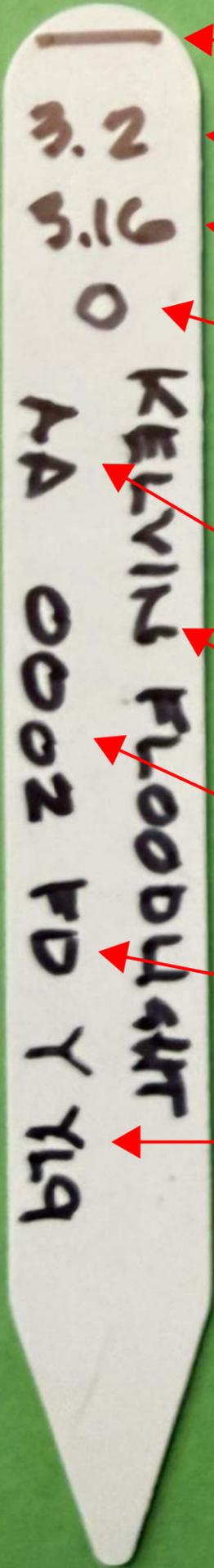


I did an experiment with unknown tubers: moist paper towel in the bag... the tubers eyed up.

- **Potting Up Tubers:**

- Materials:
 - Plant Labels and Sharpie
 - Small pots, I use 3-1/2'x3-1/2" pots.
 - Soilless Mix
 - 1020 Trays
 - [Wire Shelving on Casters](#)
 - [Grow Lights](#)
 - [Seedling Heat Mat](#)
- Place tuber divisions in small pots, 4x4 or so, in soilless mix; the soilless should be moist but not soaked.
- Tubers in bags: carefully remove from bags as they may also have roots.
- The tuber should be buried up to the crown; roots can also grow from the crown.
- Place about 6" under grow lights for 15 to 24 hours of light. I use a full spectrum LED grow light purchased on amazon: [Grow Light](#)
- Temperature: minimum 70° F (22° C), use a heat mat if needed.
- Watering: **Sparsely** water the potted tubers. Too much water will rot the tuber. Now, I did learn last year, to bottom water the pots since the tubers will have roots that will grow at the bottom of the pot... if the soilless dries out, these roots will dry out and die...

HOW TO LABEL PLANT TAG



Black Line = Special Dahlia

First Date: Cutting Date

Second Date: Potting-Up Date

Circle add when Potting-UP if really good roots. Later as Plant grows, check roots, if good, then color in the circle.

Bloom Size

Bloom Name

Bloom ADS Classification number

Bloom Form

Bloom Color(s)



BROOKSIDE SNOWBALL
BB 3061

5.7.2023
PLANTING
FOR CHRIS
- 5.7.23 -

240 mg
SILVERICE

ROCKSTAR

2024
Education and
Book of Dahlias
American Dahlia Society, Inc.
630.632.1520

2022 Stanley Johnson
Medal Winner
Lake Hills
Creamside
PE OR (8003)
Originated by
Annie Walker

American Dahlia Society
ADS (founded 1939)

A SUPPLIER
Bul

0	0	1	12
		188	

4/29
SPROTS

SNOWBALL
BB
ED
W
WZ

(22)

PK22
YK12
CO OR OR6 DP12
totals

pot up the tuber in moist soilless up to the crown of the tuber; roots can grow from the crown.



tubers with sprouts potted up,
pot up all your tubers, even
those without sprouts... some
take longer to develop eyes...



Place the tubers on shelves, about 6" below grow lights. 12-15 hours of light (timer or smart plugs). 70 - 76 degrees, use a heat mat if you like as well



CU STRAIN
BB 3402

AC PILLOW
AA 0218
LOW
E1

CU
A

- **Taking cuttings/Care of Cuttings:**

- Supplies:
 - Plant Labels and Sharpie
 - Sharp utility knife/Exacto knife
 - Distilled or tap water, Bleach water and Dish soap water
 - Nail or Awl to make holes in the Oasis wedges
 - Oasis wedges, soaked in distilled or tap water at least an hour
 - Vented [Jiffy Domes](#) in [1020 Trays](#) without drain holes
 - [Rooting Compound](#)
 - [Clorox Wipes](#)
- Once the sprouts have at least two pair of leaves, it is time to start Cuttings.
- Use Oasis strips or straight into pots of drenched soilless (pots need drain holes).
- Prep Oasis strips: soak them in distilled or tap water at least an hour before performing cuttings, preferably 24 hours.
- Using a clean sharp blade, cut tight to tuber: NOTE: Sterilize tools for each tuber to minimize chance of disease spread: Dip knife in a mix of Bleach Water (1 part bleach to 10 parts water) the Soapy Water (1 part dish soap (Dawn is mentioned a lot) to 10 parts water).
- Then cut the cutting just below a node in the cutting; this is where roots will develop (basically an underground lateral).
- Tubers will propagate up to four viable cuttings, any more after that are typically weaker plants. As such: Add up to three plant tags to pot once the first cutting is taken: this way you can keep track of how many cuttings the tuber produced. Once the tags are gone, I generally put an X in a circle on the tuber plant tag
- Dip cutting in [Rooting compound](#), I use Clonex.
- Put the Cutting into the Oasis wedge: make a small hole in the wedge and then insert the cutting in the hole; a tapered hole is suggested so that you can insert the cutting until it is firmly seated in the Oasis but not to damage the cutting.
- Place the Oasis strips under Vented [Jiffy Domes](#) in [1020 Trays](#) without drain holes; fill the 1020 tray with about a ¼" of clean water.
- Insert a plant tag with Plant name and cutting date, if the plant is a special plant, put a black line across the top of the tag.
- Change the water every three – five days, the water will lose oxygen content, fresh water is oxygenated and keeps bacteria growth from starting: Empty the 1020 tray and wipe out with disinfectant, such as Clorox Wipes, and replace with clean water.
- Place under grow lights, about 15 to 24 hours of light. I use a full spectrum LED grow light purchased on amazon: [Grow Light](#)
- Temperature: minimum 70° F (22° C), use a heat matt if needed.
- Spritz the cuttings daily with a weak mix of fertilizer (I use Miracle Gro... I still work full time, so my fertilizer research time is limited).
- Open Jiffy Dome vents to reduce humidity and moisture build up.
- Watch them Grow!!!



These are pot tubers (cuttings from last year grown in pots in the ground, restrains the size of the tuber).



CORNEL
5.1 515

WAMON
424 515

CORNEL
5.1 515

BLOOMQUEST
5.1 515 B 210

CORNEL
11 515 B

0

4
10

WAMON
424 515

WAMON
424 515



Tubers with sprouts ready for cutting: cuttings need at least two pairs of leaves.



This tuber has no cuttings yet: label has no "x" in a circle

Once you take your first cutting from a tuber, add three blank labels to the pot. "They" say, each tuber will produce up to 4 viable cuttings. As you take additional cuttings from the tuber, use the blank labels. Once you take the 4th cutting, then mark the original label with an "x" in a circle... then you know you have taken 4 cuttings. Let the tuber continue to sprout and eventually keep the strongest sprout on the tuber for a "tuber plant."

This tuber has two cuttings since there are two blank labels left.

This tuber has had 4 cuttings as indicated by the "x" in a circle



Use the same labeling methodology on the pot tubers as well.



This tuber has had 4 cuttings as is evidenced by the "x" in the circle.



Using a clean sharp blade take the cutting. Cut about a "credit card" thickness from the crown of the tuber.



Using a clean sharp blade take the cutting. Cut about a "credit card" thickness from the crown of the tuber.



Using a clean sharp blade take the cutting. Cut about a "credit card" thickness from the crown of the tuber: this will produce "pup" that will be future sprouts for cutting



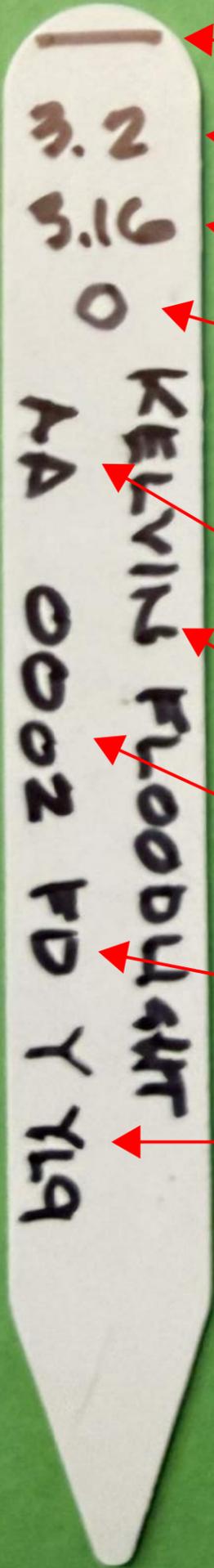
The roots will develop where the leaf meets the stalk; you can the start of a lateral in this photo...





Make a tapered hole in oasis with an Awl
Dip Cutting in Root Compound
Insert Cutting into hole, snug tight
Insert Plant Label with date of Cutting

HOW TO LABEL PLANT TAG



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Second Date: Potting-Up Date

Circle add when Potting-UP if really good roots. Later as Plant grows, check roots, if good, then color in the circle.

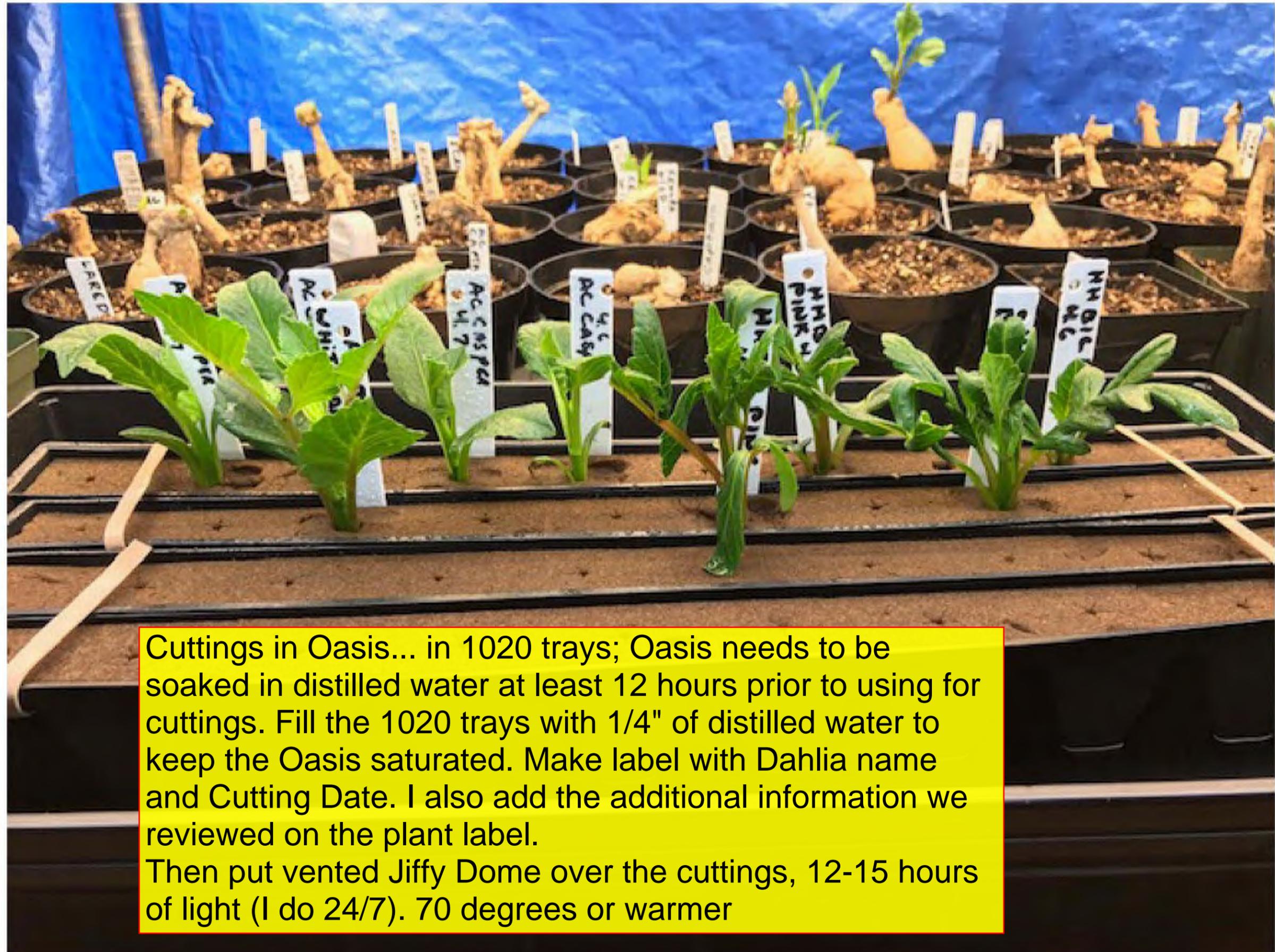
Bloom Size

Bloom Name

Bloom ADS Classification number

Bloom Form

Bloom Color(s)



Cuttings in Oasis... in 1020 trays; Oasis needs to be soaked in distilled water at least 12 hours prior to using for cuttings. Fill the 1020 trays with 1/4" of distilled water to keep the Oasis saturated. Make label with Dahlia name and Cutting Date. I also add the additional information we reviewed on the plant label. Then put vented Jiffy Dome over the cuttings, 12-15 hours of light (I do 24/7). 70 degrees or warmer









Spritz the Dahlias twice a day with mild fertilizer solution



Vented Jiffy Dome over, cuttings, 12-15 hours of light (I do 24/7). 70 degrees or warmer on shelving unit (on casters ideally for ease of moving around).



Sometimes remove the Jiffy Dome for some fresh air.



- **Potting Rooted Cuttings:**

- Supplies:
 - Plant Labels and Sharpie
 - Soilless mix
 - Pots
 - [Mycorrhizae](#)
 - [Root Blast](#)
 - fork
- Roots develop in about 14 days in the Oasis
- Check the cutting for roots, using a fork to remove the oasis wedge to see if there are any roots. If so...
- Pot the rooted cutting in Soilless mix: Fill the pot and use your thumb to make a depression in the pot, Sprinkle Mycorrhizae into the hole and set the oasis wedge into the pot and tamp down the Soilless, adding more to fill the pot.
- Update the plant tag with the potting up date.
 - Open circle means good roots.
 - No circle means weak roots.
 - Line across the top means special plant.
- Once potted, sprinkle rooting compound such as [Root Blast](#) on the top of soilless and work in with a fork.
- Drench the potted Cutting: Since the plant just came out of a water environment, drench the pot with a weak mix of fertilizer water (I use a diluted Miracle Gro mix... I still work full time, so my fertilizer research time is limited).
- Place potted plants in 1020 trays about 4" below grow lights, 15-18 hours, Temperature: minimum 70° F (22° C), use a heat matt if needed.
- Spritz the cuttings twice daily with a weak mix of fertilizer.
- Water regularly, don't drench, but make sure to keep the soil moist for the young roots.
- Fertilize on a regular basis.
- Now watch them grow! As they grow larger, you may need to repot them in larger pots... judgement call.



After 14 days, check for roots: Score the Oasis and then use a fork to pull the wedge out

DTN MAUOE J. 4.11



After 11-14 days, use a fork to remove a wedge from the strip to check on roots.
If it pulls out easy, then likely not much root development (this example). If it takes a bit of a tug, then likely more roots (next page). If it won't pull out, then roots may have grown through the plastic... see two pages forward.

After 11-14 days, use a fork to remove a wedge from the strip to check on roots. If it pulls out easy, then likely not much root development (previous page). If it takes a bit of a tug, then likely more roots (this page). If it won't pull out, then roots may have grown through the plastic... see next page

MAGIC 4.16
MOMENT 4.30





After 11-14 days, use a fork to remove a wedge from the strip to check on roots.

If it won't pull out, then roots may have grown through the plastic... now it is time to cut the plastic.

Note the dates: good roots in 11 days.

AC BEN
4.7 4.18



Oasis wedges
ready to be potted
up



Put up in saturated soilless mix.
Loosely fill pots with soilless
Make a hole in middle with your fingers and sprinkle in Mychorrhizae into the hole.
Insert Cutting in wedge into pot, tamp down the soilless and add more until it just covers the wedge.
Sprinkle Root Blast into the pot and work in with fork.
Drench pot with weak solution of fertilizer water (the Cuttings have been in a wet environment, so drench is what is needed... unlike a tuber plan)



Cuttings in pots



Cuttings on Shelves, about 4" below the grow light. 70 Degrees plus. 12-15 hours of light, I do 24... Fans are two fold: for dissipating heat and also air flow, which some say make the plants stronger. These fans oscillate and are on a mono-pod with casters plugged into a smart plug on 25' extension cord for ease of moving around.

- **Hardening to be ready for the outdoors:**

- Supplies:
 - Tables on casters (locking for windy days).
 - 1020 Trays **with holes** (in case of a rain storm and your not home!)
 - [Jute Twine](#) and small garden stakes (like [shish kabob sticks](#) from the grocery store, 12" long is a good size)
- Once the plants are established and at least 4-6 pairs of leaves are developed, you can start hardening them outdoors.
- Once the weather is good, start with 2 hours a day for a few days, then 4 hours, then all day.
- Use 1020 trays with holes (especially outside in case of storms and you are not home... speaking from experience).
- Water regularly, don't drench, but make sure to keep the soil moist for the young roots.
- Fertilize on a regular basis.
- As the plants get taller, you may need to add support: use small garden stakes and jute twine to tie them up.



It's been a few weeks and the weather is breaking... time to move the plants outside to harden (note, this is an old photo... now all my shelved are on casters and the lights are connected to extension cord for ease of moving)



For hardening, put the plants in 1020 trays WITH holes (just in case of rain when you are not around). I use tables (with locking casters to keep them from moving on windy days) so that I can move the tables around. 2 hours first few days, 4 hours next several days, then full sun. Be sure to water and fertilize regularly.



For hardening, put the plants in 1020 trays WITH holes (just in case of rain when you are not around). I use tables (with locking casters to keep them from moving on windy days) so that I can move the tables around. 2 hours first few days, 4 hours next several days, then full sun. Be sure to water and fertilize regularly.





Then it will be time to plant outside, that is another presentation.

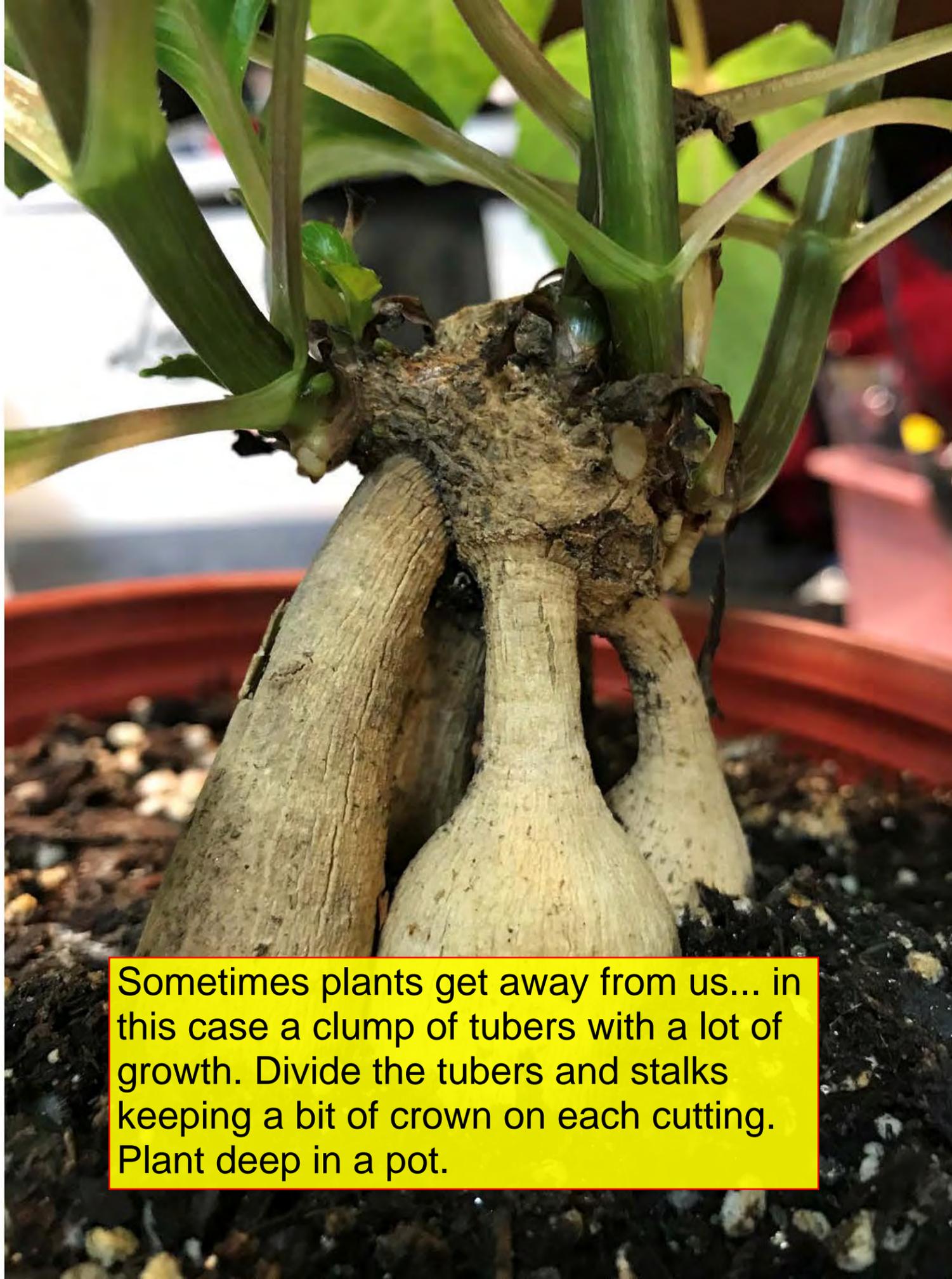


rabbits!!! I have a great way to make chicken wire "rings" for individual plants or potted plants... that is a future presentation as well...



- **Dividing a Tubers that have many sprouts or tall sprouts**

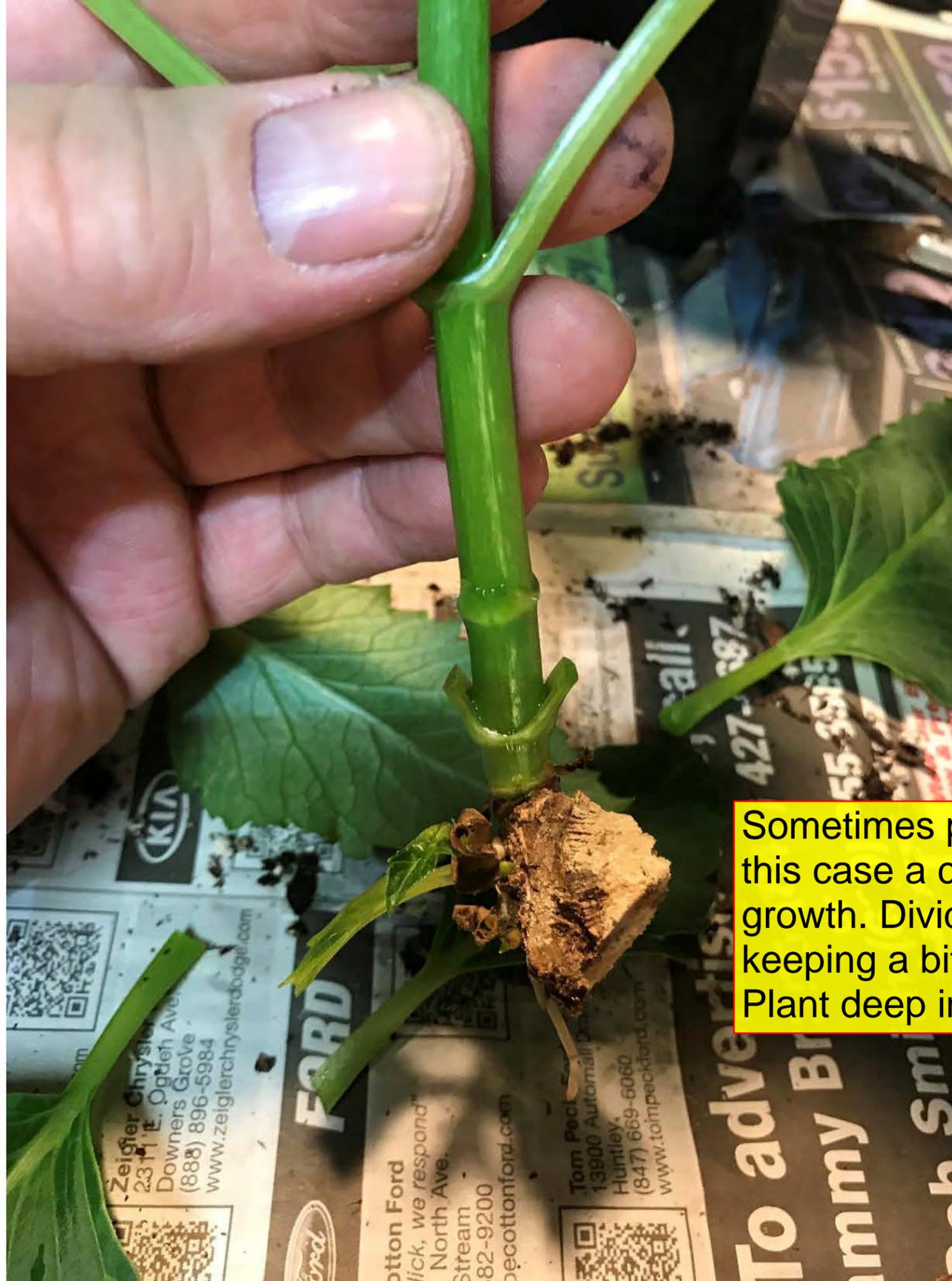
- **Clump of tuber divisions:** divide and retain portion of crown.
- **Single Tuber with roots at base of sprouts:** divide and retain portion of root.
- **Split Node Option:**
 - If the sprout has grown enough that the stem is hollow; you do a split node.
 - Cut the sprout above and below a pair of leaves where the stem is thick and small laterals are already developing.
 - Divide the stem in half.
 - Plant each half in the same pot of drenched soilless such that only the remaining leaf sticks out of the soilless.
 - Water generously to keep the soilless wet.
 - The lateral will begin to grow to become a viable plant.



Sometimes plants get away from us... in this case a clump of tubers with a lot of growth. Divide the tubers and stalks keeping a bit of crown on each cutting. Plant deep in a pot.

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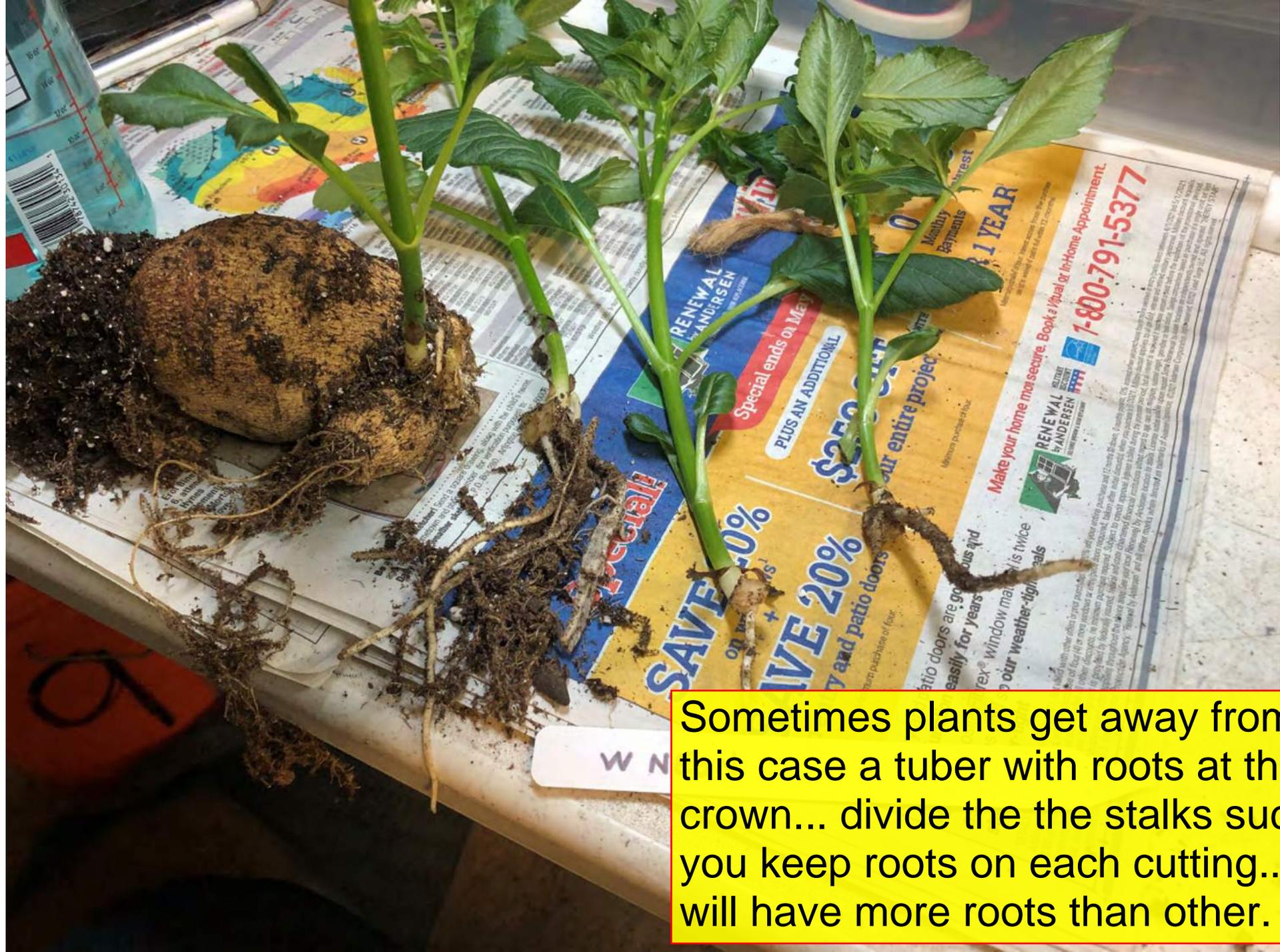
Sometimes plants get away from us... in this case a clump of tubers with a lot of growth. In this case stalks stay on the divided tuber.



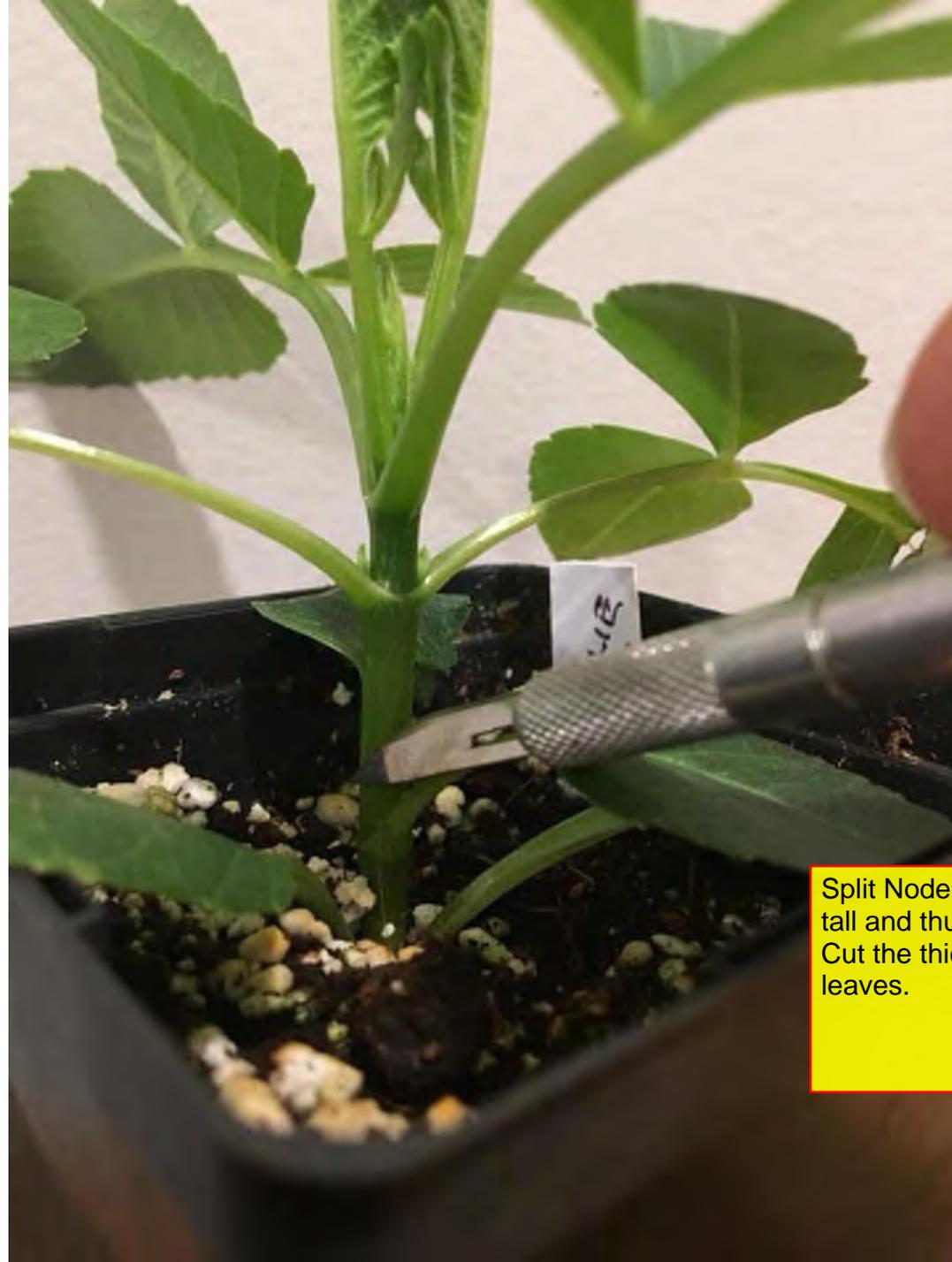
Sometimes plants get away from us... in this case a tuber with roots at the crown... It can be divided to save the growth as well...



Sometimes plants get away from us... in this case a tuber with roots at the crown... It can be divided to save the growth as well...



Sometimes plants get away from us... in this case a tuber with roots at the crown... divide the the stalks such that you keep roots on each cutting... some will have more roots than other.



Split Node Cutting: Sometimes the plant gets to tall and thus the stem can get hollow at the base. Cut the thick part above and below a pair of leaves.



Split Node Cutting: Sometimes the plant gets to tall and thus the stem can get hollow at the base. Cut the thick part above and below a pair of leaves.

Then Cut the stem down the middle...

note the small lateral
at each leaf...



Split Node Cutting: Sometimes the plant gets to tall and thus the stem can get hollow at the base. Cut the thick part above and below a pair of leaves.

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The split node cuttings will be planted in saturated soilless mix



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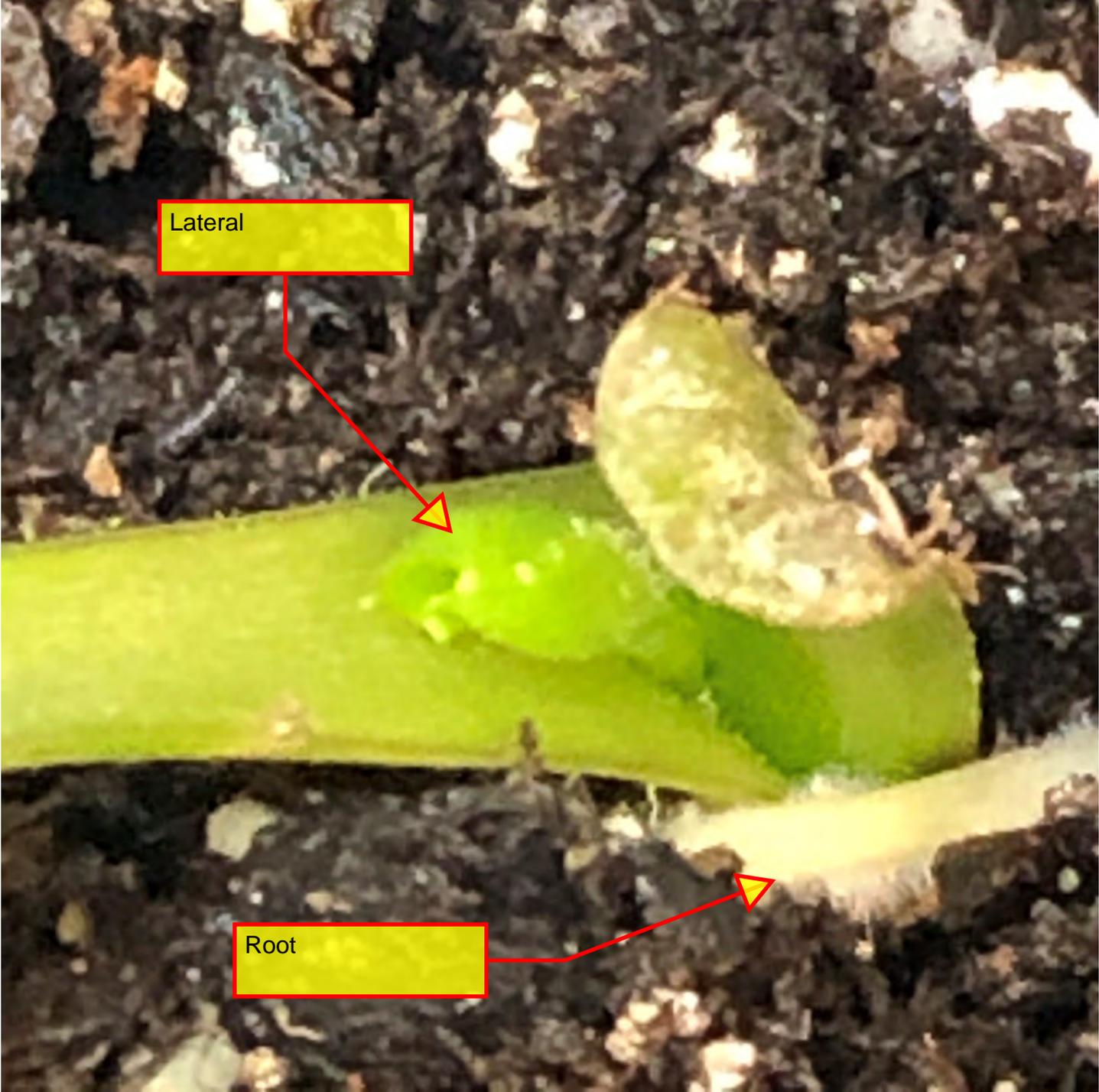


can barely see the lateral in this photo

The split node cuttings will be planted in saturated soilless mix: plant them so the lateral is just below the surface.



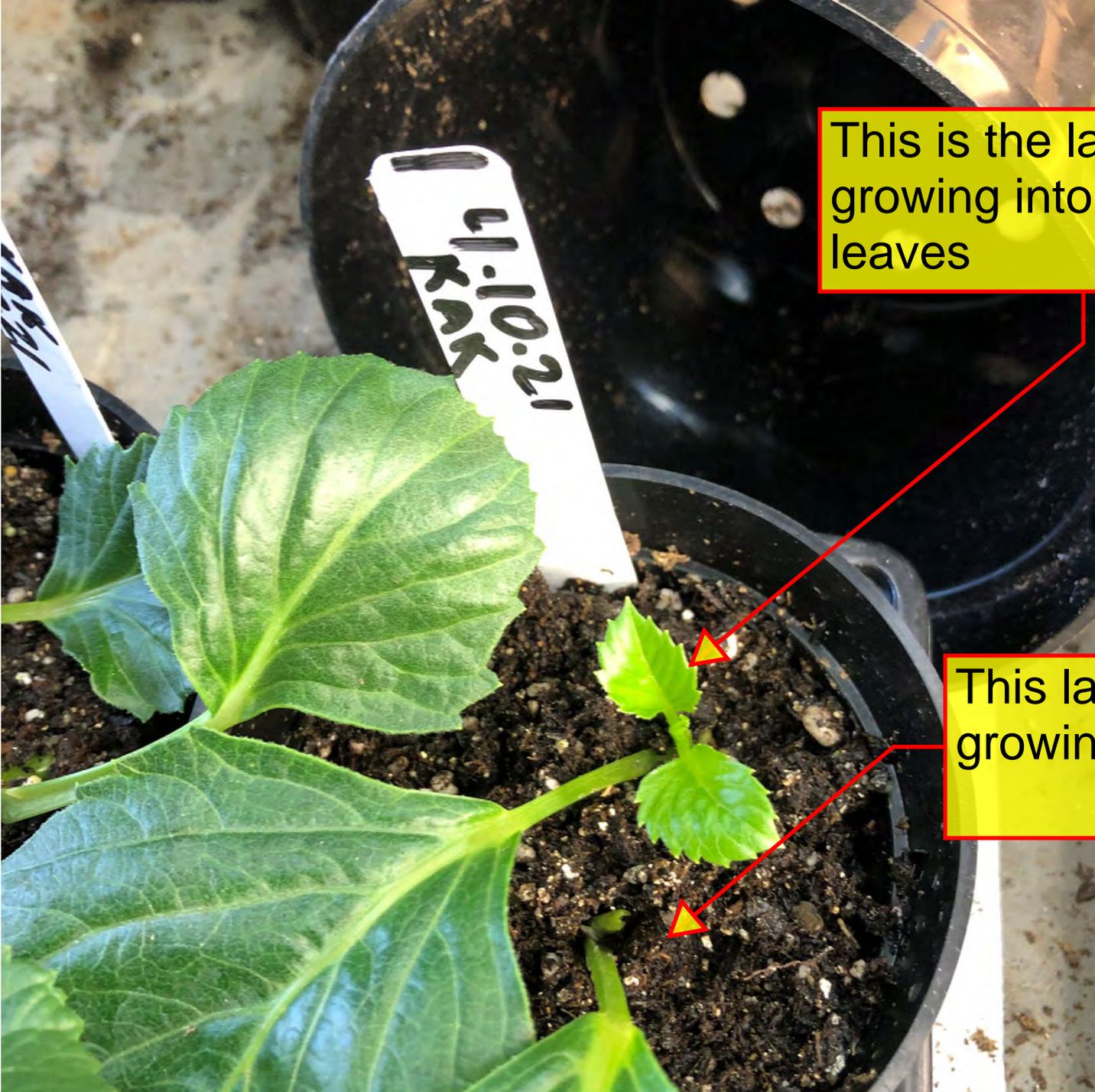
Split node cuttings in saturated soilles in pots in 1020 trays with 1/4" of distilled water, jiffy dome cover, spritz twice a day. 70 degrees or warmer, change water every 3 days...



Lateral

Root





This is the lateral growing into a pair of leaves

This lateral is not growing as fast...



Lateral growing from split node cuttings.



Lateral growing from split node cuttings.



- **Supplies/Links (in no particular order):**

- Sharpie... well a few Sharpies, Fine Point.
- Plant Labels (purchase from CSDS)
- Misc. Tools: fork, scissors, Exacto Knife, small brush, paper towels.
- Nail or Awl to make holes in the Oasis wedges
- "Take away food trays;" by [Glad](#) or [Amazon](#)
- Zip Lock Bags (sandwich, quart and gallon... depending on tuber size)
- [Wire Shelving](#) on [Casters](#)
- Soilless Mix, I am using [Promix](#) from Ace Hardware this year, [Pesche's Potting Mix](#) is an option.
- Soil Moisture Meter: [4-in-1 Meter from Amazon](#)
- [Bread Trays](#)
- [Jiffy Domes](#)
- [1020 Trays](#) with and without drain holes
- Remote Thermometers: [Govee](#)
- Small pots, [I use 3-1/2" square pots](#)
- Clear small pots, I use 9 oz. [cocktail glasses](#), need to drill drain holes.
- [Grow Lights](#) plugged into [smart plug](#)
- [Seedling Heat Mat](#)
- Distilled or tap water, Bleach water: 1 to 10 (note, need to change the bleach water daily as bleach loses effectiveness after exposure to light), Dish soap water: 1 to 10, most recommend Dawn
- Oasis wedges (purchase from CSDS)
- [Rooting Compound](#)
- [Clorox Wipes](#)
- [Mycorrhizae](#)
- [Root Blast](#)
- [Tables](#) on casters (locking for windy days).
- [Jute Twine](#)
- Small garden stakes (like [shish kabob sticks](#) from the grocery store, 12" long is a good size)
- [Oscillating Fans](#) on [Monopod with casters](#) plugged into [smart plug](#) controlled outlet on 25' extension cord.

- **Summer Care to be discussed in our April Meeting:**

- **Planting tips: how, when and where**
 - **In Planting Beds:** Need to wait for the ground to be near 60°
 - **Pot Tubers:** leaving the cuttings in pots and growing them in the pots in the ground.
 - **Growing in Pots:** Can start earlier than the ground since you can warm up the soil...
- **Manicuring dahlias:** Topping, tying, lateral management, disbudding and timing for shows.
- **Summer care tips:** watering, fertilizing and pest control
- **Timing for Shows:**
 - Elkhart Dahlia Society Show: August 23
 - National Show: August 27-30, Grand Rapids Michigan
 - Southtown Dahlia Club: September 5 - 6
 - Southeast Michigan Show: September 12 - 13
 - Central States Dahlia Society: September 19-20





Plant & Garden, Greening & Lawn Care, Greenhouses & Plant Growing Equipment, Greening Tr



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7 VIDEOS

Product Dimensions
Weight: 11.3pounds / 5.1 kilograms

- Quiet Motor
- Excellent Stability
- 30KG Max load capacity

5.9feet/1.8Meters Minimum Height: 3.93feet/1.2Meters 4.39feet/1.34Meters 7.17feet/2.18Meters Maximum Height: 10feet/3.05Meters

8 MODES

5G

