# How to Transplant Your seedlings

Let's get your plant babies in the garden!



# Who are we?



#### Tracie Ward

Vegetable Team Leader in her 35<sup>th</sup> year at Russell's Garden Center!

#### Sarah Pellegrini

3<sup>rd</sup> year Seasonal Veggie Grower here at Russell's. Home grower for over 35 years.















# What is potting up?

When your seedlings have grown as much as they can in their initial containers, they need to move to where they have room to grow.

- Prevents growth problems like root bound
- Does **NOT** have to be final container
  - Still too cold outside





# Why do seedlings need to be potted up?

- Outgrowing their first containers
- Prevent from becoming root bound
- Need more space, not ready for outside







Is the the new container a good size for the type of plant and its future needs or is it transitional?

Is it going to be a small or large plant when it matures?

Are you keeping this plant in a container that's good for smaller spaces or portability?

Do you have a large growing space?

Will it need to be trellised as it grows?

Will it sprawl along the ground?

Does it grow tall or wide?

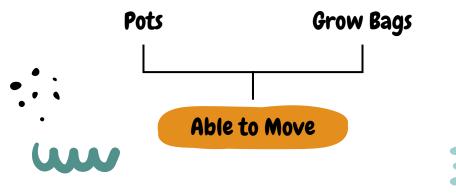
#### **Types of Containers**

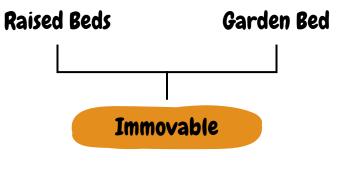












# Soil Types for Potting Up

Potting Soil





is designed specifically for container gardening. It's also lighter, well-draining, and often sterile. is heavier, naturally occurring soil meant for in-ground planting and may contain microbes and pests not ideal for pots

We're focusing on Potting Mix for indoors.



#### **Transplant Soil Depths**





#### Same Level

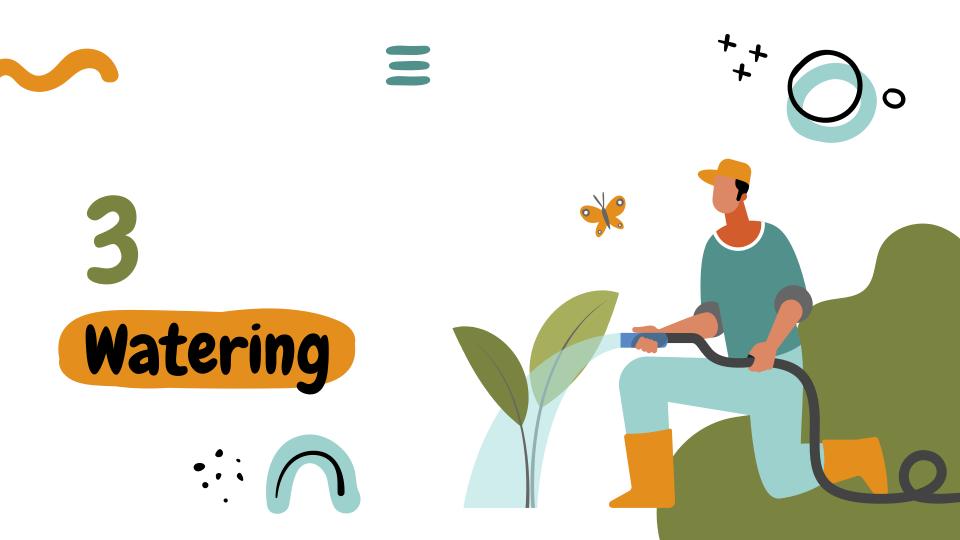
Most of your seedlings will want to be transplanted at the same level

#### Half Depth

Some plants will do well a little deeper like Peppers and Eggplant.

#### Full Depth

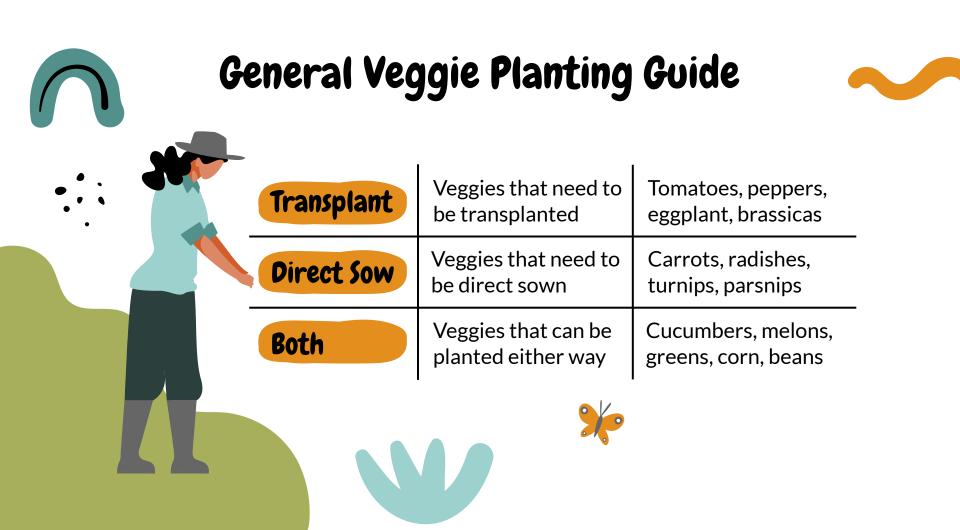
Very few plants like being planted deep, tomatoes being the most common exception to the rule.



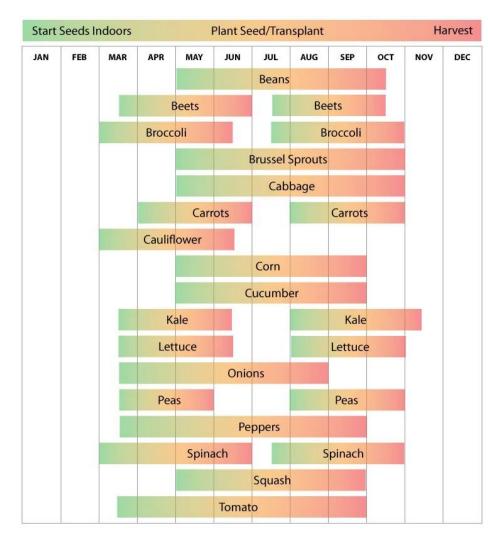


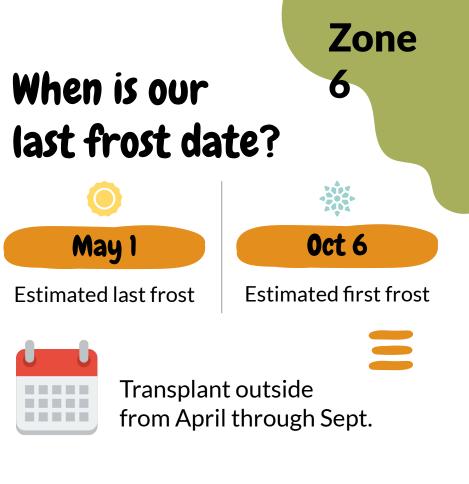




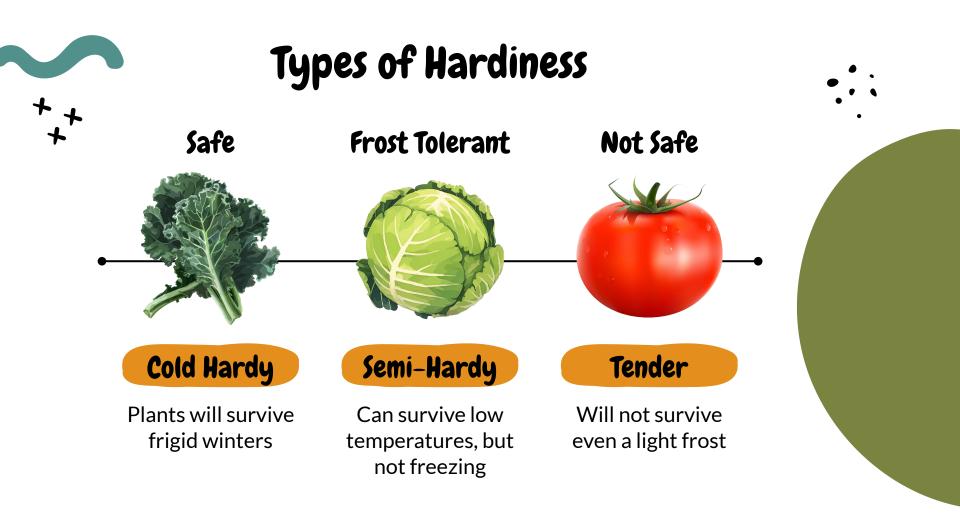








Additional Resources: <u>Sow True Seed</u> <u>Farmer's Almanac</u>





### Soil Temperature



On sunny days, the ground can be much warmer than the air. During cold winter nights, the ground temperature can be cooler than the air. After a continuous warm period, soil keeps its warm temperature when the air cools at night.

#### **Generalized Temperatures**



- 60–65°F: Ideal for cabbages, beans, lettuce, and peas.
- Below 75°F: Best for corn, as excessive heat can dry out soil too quickly.
- **75°F:** Preferred for peppers, tomatoes, eggplants, and squash.



#### **True Leaves Appear**



The first leaves that sprout from the seed, otherwise known as cotyledons.



The seed leaves have done their job and now that the plant can get nutrients from the soil, true leaves appear.







# Preparation



### Is your soil workable?

#### New Soil vs. Old Soil - Both work!

#### New Soil



When you use a bagged mix of potting soil or garden mix, it comes with all the nutrients and amendments needed for your plants success.

Using your older soil is eco-friendly and cost effective. Till the first 4" of the soil and add amendments to revitalize the soil.











### **Soil Amendments**

- Compost
- Manure
- Worm castings
- Fertilizers
- Vermiculite
- Pearlite

















#### What is hardening off?

Taking your plant starts that have been babied for the past few weeks and getting them to toughen up so they'll survive outside.







#### Hardening Off Timeline

Your timeline may look different, that's ok!



Day I	1 hour, in shade	Day 8	7 hours
Day 2	2 hours, in shade	Day 9	8 hours
Day 3	3 hours, in shade	Day 10	9 hours
Day 4	4 hours, in shade	Day II	10 hours
Day 5	5 hours, in shade	Day 12	11 hours
Day 6	6 hours, in shade	<b>D</b> ay 13	12 hours
Day 7	6 hours, <b>no more shade</b>	Day 14	All day, 24 hours

# Considerations before moving out ごつ



- Wind your seedlings are not used to gusts, choose a still day
- Sun even if your starts were under lights, nothing compares to the sun, do not begin on a sunny day unless you have shade cover
- Rain your plants have been gently watered indoors, they're not strong enough to withstand heavy rains







# How to Transplant







# **Demonstration Time!**

Tracie is going to be showing us how to pot up our seedlings!



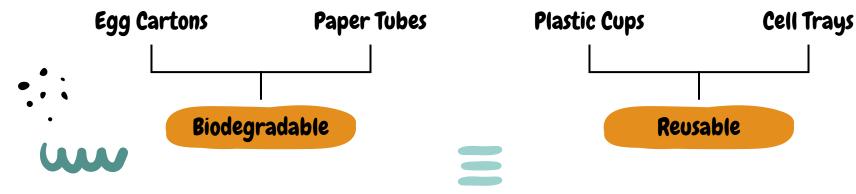
#### **Container Varieties**













## Ways to transplant tomatoes





• Plant DEEP

All the fuzzy hairs on the stem can become a root to aid the plant

• Plant horizontally!

If the stem is too leggy or wonky, trench it. The plant will right itself and grow up toward the sun





# What is transplant shock?

Transplant shock is a common phenomenon that occurs when a plant is moved, whether from a seed tray to a garden bed, from a container to the ground, or even from one pot to another.









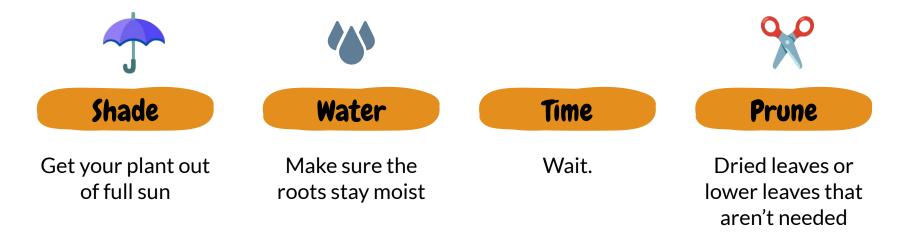




Believe it or not, this is the same plant 3 days later!

### How to handle transplant shock

Avoid it by hardening off properly and being careful with the roots. It can still happen though and when it does, you can fix it by...





### How to keep your plant happy





Keep an eye out for bugs and pests



Growing food takes a lot of energy!



Remove dead and dying leaves, clean away debris.







Container gardening, general plant maintenance, etc. Keep an eye on the site for all the new workshops coming this season.

#### Dates are coming soon!





# Thanks!

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