

## **STEP-BY-STEP GUIDE TO STARTING A GARDEN FROM SEEDS**

Looking to start a garden from seeds? Follow these steps for the best results.

- 1. Pre-moisten the soil before filling seed trays
  - Let the soil reach room temperature before filling the trays.
- 2. Fill seed trays with soil depending on the crop being grown.
  - Lettuce can be put into smaller, transplant-size trays.
  - Tomatoes need larger transplant-size trays.
  - Egg cartons and disposable cups are good alternatives for seed trays.
- 3. Poke holes in the soil to the depth needed for particular seeds and crops.
  - Using the butt end of a nail can help keep the hole smaller.
- 4. Place seed into the hole.
  - Depending on the seed germination rate (the percentage of seeds likely to germinate), it may be necessary to plant a few seeds per hole.
- 5. Put just enough soil over the seed to cover it.
  - Having good seed-to-soil contact will allow for more uniform germination.



- 6. Water the seeds, but not so much that the soil moves, and the seeds float away.
  - Using warm water (80 degrees Fahrenheit) can help with germination.
- 7. Keep soil moist, but not wet.
  - Touching the soil to ensure that it's not too wet is always a good idea.
  - Once seeds germinate, cut back on watering to begin proper root development.
- 8. Provide lighting to ensure that the seeds get the energy needed to grow.
  - Typically, seeds need 8-10 hours of light a day.
  - A desk lamp or ceiling light are good options if you don't have enough sunlight from a window.
- 9. After the transplant starts to get larger, a multipurpose fertilizer may be needed for better growth and vigor.
- 10. Before planting outside, plants need to be "hardened off."
  - Hardening off means allowing the plants to get acclimated to outdoor conditions to make it stronger before it is permanently planted outside.
  - Suitable options for hardening off are a carport, porch or under a tree.
  - Days 1-3: put in direct sunlight for two hours
  - Days 4-7: put in direct sunlight for five hours
  - Days 8-10: put in direct sunlight all day.
  - Be sure to check your transplants regularly during this period as the sun will soak up the water in the soil more quickly than indoor light.



- 11. After the hardening off period, your plants can be planted in their final location.
- 12. Enjoy the fruit of your labor based on the days to maturity located on your seed packet.
  - Days to maturity is not measured from the time planted as a seed but from the time planted in the soil as a larger transplant.

**Pro Farmer Tip:** Use a heat mat at a low temperature to assist in keeping your soil warm during the germination process. Moderately priced heat mats can be purchased online, but a dog kennel heat pad could work if you have one.

For more information, contact John Kimes, ANR horticulture farm manager, at <u>jekimes@ncat.edu</u>.

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