

Home Gardening is Booming!

- 18.3 million new gardeners
- 55% of Americans engage in home gardening
- Avg of \$48 spent in lawn and garden

 Ref: National Gardening Association, 2021

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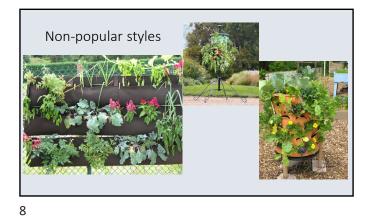
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Successful Gardening:

- Sunlight: 6 -8 hours
- Well drained, organic rich soil
- Nutrients organic or synthetic
- Proper Planting Time
- Proper Spacing
- Water

Think Big, Start Small – Plan Your Garden



- Favorite crops
- Avg frost free days 110
- Choosing best varieties
- Shop Seeds or transplant

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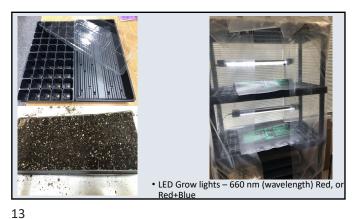
Garden Seed Varieties - Resources

- Standard varieties:
- "Vegetable Gardening in the Midwest" by C.E. Voigt and J.S. Vandemark, University of IL
- http://urbanext.illinois.edu/vegg ies/directory.cfm
- All American Selections: New& **Proven Varieties**
- https://all-americaselections.org/
 - Disease Resistant Varieties:
- https://www.vegetables.cornell. edu/pest-management/disease-factsheets/disease-resistantvegetable-varieties/

Seed Starting: When to start

- Cool season crops like Cole crops
 - 6-8 weeks before the last spring frost
 - Mid late March
- Tomatoes, peppers, eggplants, and okra
 - 6 -8 weeks before transplanting date.
 - Mid late April
- Pumpkins, watermelons, sunflower, and beans are best to be directly seeded outdoors after last frost.

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Sketch a simple garden map

- Perennial vegetables
- Asparagus, rhubarb, berries
- Plant at a side of the garden North, North
- Group by vegetable families—legume, cabbage, cucurbits
 Plant taller crops to the north
- Row Orientation East to West
- Arrange by height
- Determine spacing between plants



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Choosing Site Location

- Full sun (6-8 hours)
- 50' away from black walnut
- Clearance from lawn
- Avoid low lying spots
- Proximity to your house



Shade Tolerant Crops

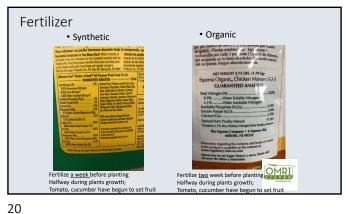
- Heavy shade (3 hours or less) Arugula, herbs, lettuce, parsley, salad greens, spinach, scallion
 - Anise hyssop, chervil, chives, cilantro, parsley and lemon balm, and even basil tolerate some shade. Sweet woodruff grows in full shade.
 - Green salad -Bok choy, tatsoi, endive, and sorrel
- Part shade (4-6 hours) Beets, carrots, chard, kale, radish, turnips

Reference: Home Garden Seed Association

Garden Soil

- Raised beds: Top soil + Compost (1:1)
- Conventional garden: Compost, 4-6 inches
- Container Gardens: Potting Mix
- Planter Boxes: Top soil + compost/peat (1:1)
- Spring not too wet and not too dry





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When to plant?

- Know your soil and air temperature
- Cool season crops Late April-May 1st week, soil temperature 50°F
- Warm/tender vegetable crops Last week May-June 1st week, soil temperature (60-70°F), night temperature above 55°F
- Pumpkins, melons, sun flower Soil temperature 70-75 F, night temperature above 60 F, First week in June



Soak large seeds /water transplants before planting







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Spacing: Refer to seed packet, transplant tag

- Small size maturing plants –4" to 1' beets, radish, mustard, leaf greens, chard
- Medium size maturing plants 1' to 2'
 - Broccoli, cabbage, cauliflower, kale, brussel sprouts, potatoes, sweet corn
- Large maturing plants 3' to 5'
 - Tomato, cucumbers, pumpkins, melons, squash



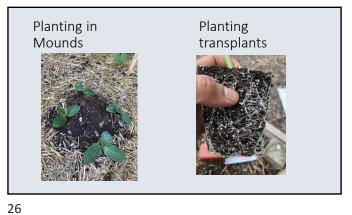
Planting Depth – Ref to seed packet

- Small seeds ¼ ½ inch
- Large seeds 1 inch



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Companion Plantings Maximize the yield Deter pest by providing habitat for predatory insects Planting style – Intercrop, trap crop Planting style – Intercrop, trap crop The period of the providing habitat for predatory insects Planting style – Intercrop, trap crop Planting style – I

Pests & Diseases

• Proper Diagnosis

• Plant Health Advising Office:
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