2020 Ohio Master Gardener State Conference

By: Brie Arthur
Brie Arthur
Gardener in
Fuquay-Varina, NC
USDA Zone 7

Author of
*The Foodscape Revolution*
*Gardening with Grains*
Growing Veggies with an HOA circa 2006
Is THIS the best we can do?
I dream landscape can be BEAUTIFUL & BOUNTIFUL
I dream landscapes can teach where food comes from
Train the next generation to be the best stewards of the Earth
Growing food is the “in thing”
Let’s start a conversation

EVERYONE EATS!
What is a Foodscape?
Landscape that produces food & flowers
Integration of edibles in a traditional landscape & containers

Every landscape is an opportunity to grow some food in a beautiful and productive way
Ros Creasy’s Edible Landscape
Chanticleer Garden
Foodscape Design Basics

- Draw a plan to scale
- Select ornamental trees, shrubs and perennials for structure
- Focus on open, sunny areas in existing landscape
- Rotate crops seasonally
- Utilize cover crops
- Focus on diversity not monoculture planting
- Devote budget to quality compost seasonally= SOIL3
Existing Mulch Space
You don’t have to grow in straight lines
Think about what you eat ALL of the time

• Focus on growing PRACTICAL food crops that you like to cook with

• Grow A LOT of them to help change your buying habits

• Cultivate extra to share with friends and family
MY TOP 5 veggies are:

1. Tomatoes
2. Onions and garlic
3. Potatoes
4. Peppers
5. Wheat flour
Foodscaping Plant Palette

BEST from all categories!

NATIVES

EDIBLES

ECOLOGICAL

ORNAMENTALS
Food Crops LACK Diversity

Solanaeous Crops

- **Family**: Solanaceae
- **Warm Season Perennials**
- **Naturally self pollinating**
  - Tomato (*Lycopersicon esculentum*)
  - Pepper (*Capsicum annuum, C. frutescens, C. chinense*)

Other Solaneous crops:
- Potato (*Solanum tuberosum*)
- Eggplant (*Solanum melongena*)
- Tomatillo (*Physalis ixocarpa*)
Ornamental Plants offer Biological Diversity
### Plant Families represent diversity

<table>
<thead>
<tr>
<th>Family</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apiaceae</td>
<td>Celery Family</td>
</tr>
<tr>
<td>Asteraceae</td>
<td>Aster Family</td>
</tr>
<tr>
<td>Brassicaceae</td>
<td>Mustard Family</td>
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<tr>
<td>Fabaceae</td>
<td>Bean Family</td>
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<tr>
<td>Lamiaceae</td>
<td>Mint Family</td>
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<tr>
<td>Liliaceae</td>
<td>Lily Family</td>
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<tr>
<td>Malvaceae</td>
<td>Mallow Family</td>
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<tr>
<td>Rosaceae</td>
<td>Rose Family</td>
</tr>
<tr>
<td>Solanaceae</td>
<td>Tomato Family</td>
</tr>
</tbody>
</table>
Select the BEST plants for your region

Find the Newest AAS Winners on the "Buy AAS Winners" page
## Cool season guide (September-May)

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>Seed Date</th>
<th>Transplanting Date</th>
<th>Harvest Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arugula</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Barley</td>
<td>October - November</td>
<td>November - January</td>
<td>June</td>
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<tr>
<td>Broccoli</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Cabbage</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Carrots</td>
<td>August - March</td>
<td>Direct Seed (do not transplant)</td>
<td>May - September</td>
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<tr>
<td>Cauliflower</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
</tr>
<tr>
<td>Chard</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
</tr>
<tr>
<td>Cilantro</td>
<td>August - March</td>
<td>Direct Seed (do not transplant)</td>
<td>March - June</td>
</tr>
<tr>
<td>Garlic</td>
<td>Directly plant clove</td>
<td>September - December</td>
<td>June</td>
</tr>
<tr>
<td>Kale</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Kohlrabi</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Lettuce</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Mustard</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Oats</td>
<td>October - November</td>
<td>November - January</td>
<td>June</td>
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<td>Peas</td>
<td>August - March</td>
<td>October - March</td>
<td>April - May</td>
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<tr>
<td>Potatoes</td>
<td>Directly plant tuber</td>
<td>February - March</td>
<td>June</td>
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<tr>
<td>Radish</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Spinach</td>
<td>August - March</td>
<td>October - March</td>
<td>October - May</td>
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<tr>
<td>Wheat</td>
<td>October - November</td>
<td>November - January</td>
<td>June</td>
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<tr>
<td>Beans</td>
<td>April - July</td>
<td>May - July</td>
<td>August - October</td>
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<tr>
<td>Corn</td>
<td>April - July</td>
<td>May - July</td>
<td>July - September</td>
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<tr>
<td>Cucumbers</td>
<td>May - August</td>
<td>May - August</td>
<td>June - September</td>
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<tr>
<td>Eggplant</td>
<td>March - May</td>
<td>April - June</td>
<td>June - October</td>
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<tr>
<td>Melons</td>
<td>April - July</td>
<td>May - July</td>
<td>July - September</td>
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<tr>
<td>Okra</td>
<td>April - July</td>
<td>May - July</td>
<td>July - September</td>
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<tr>
<td>Peanuts</td>
<td>April - July</td>
<td>May - July</td>
<td>October</td>
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<tr>
<td>Peppers</td>
<td>March - June</td>
<td>May - July</td>
<td>August - November</td>
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<tr>
<td>Pumpkins</td>
<td>May - July</td>
<td>May - July</td>
<td>October</td>
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<tr>
<td>Rice</td>
<td>March - May</td>
<td>April - June</td>
<td>September</td>
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<tr>
<td>Squash</td>
<td>April - August</td>
<td>May - August</td>
<td>June - October</td>
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<tr>
<td>Sweet Potatoes</td>
<td>Directly plant tuber</td>
<td>May - July</td>
<td>October</td>
</tr>
<tr>
<td>Tomatoes</td>
<td>March - June</td>
<td>April - June</td>
<td>June - October</td>
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<tr>
<td>Zucchini</td>
<td>April - August</td>
<td>May - July</td>
<td>June - October</td>
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</tbody>
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Match cultural needs

Sunlight:
FULL SUN = 8+ hours
PART SUN = 4-6 hours
SHADE = 4 hours or less

Water:
DAILY = site close to hose!
WEEKLY = once established
If you grow it for the fruit or the root, you need full sun.

If you grow it for the leaves, partial shade is all you need.

UrbanOrganicGardener.com
Success starts with LIVING SOIL rich in organic matter.
Organic Fertility

Espoma Brand

Quality Compost

Fish Emulsion
What about insects?
Cabbage Worms: *Pieris rapae*

The adult butterflies are sometimes called cabbage whites or small whites and they lay eggs on plants in the Brassicaceae family, such as cabbage, kale, cauliflower, broccoli, and other members of the cabbage vegetable family.
Cross Striped Cabbage Worm: *Evergestis rimosalis*

- Cross-striped cabbageworm lays its eggs in batches (3 to 25) rather than singly.
- Egg batches are yellow, flattened, and attached to the lower leaf surfaces.
- Larvae grow to 3/4"-long in 2 to 3 weeks.
- The caterpillars are light bluish-grey on top and green underneath, with numerous black bands across their backs and a yellow line down each side.
Bacillus thuringiensis Bt:

Gram-positive
Soil-dwelling bacterium
Commonly used biological pesticide
“Organic” safe
Organic Pest Control

Copper sulfate: Destroys fungi and some weeds

Horticultural oils: Refers to oil extracts from various plants with anti-insect effects

Rotenone: An insecticide used in combination with other organic pesticides
A biological pesticide is a **biotechnical organism** and can be either a biocidal product or a plant protection product. Biological control often includes natural enemies to the pest organisms to be controlled.
Is Foodscaping “deer proof?”
Fencing
Repellents
Reflective tape
Vole King Bags
Motion censored irrigation
Foodscaping Solutions

Plants that deter animals:
Spicy Greens
Basil
Garlic
Herbs
Onions
Potatoes
Spicy Greens Groundcovers

Mix Arugula, Chard, Lettuce, Kale, Mustard & Spinach seed together

Broadcast seed over 1” of Soil3 organic compost
Herbs: Basil
Herbs: Oregano & Thyme
Herbs: Rosemary
Where do French fries come from?
Solanaceae plants have poisonous foliage.
3 months later...

80lbs of potatoes harvested!
Serving the potatoes at July 4 Picnic
Want to make a difference in the world?
Just grow Garlic
Favorite Variety: ‘Music’
Plant in fall along bed edges to deter VOLES

Remove flower scape in spring
Harvest the bulbs when foliage dies in late Spring
As of 2012, China is the largest producer of garlic

59 million metric tons annually

66% world production

90% US

US AVERAGE 2,200 MILES PER PRODUCT
Every landscape offers an opportunity to grow some food in a beautiful and productive way
Let’s start a Foodscape Revolution in our neighborhood!
Installing Foodscapes for neighbors during the Covid-19 Pandemic
Filming Growing A Greener World TV
Episode 1102: The Foodscape Revolution

BY GGWTVC ON SEPTEMBER 12, 2020

Watch anytime on GGWTVC.com

or check local PBS listings
DREAM BIG!
180 MILLION acres of development in US

Churches, Residential Landscapes, Entryways, Municipal Buildings
Foodscaping is the Future!
Thank you Ohio Master Gardeners
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