



**K-STATE** | Sedgwick County  
Research and Extension

Welcome to  
**VICTORY GARDEN 101**  
Basic Garden Planning

Please mute your microphone and turn your camera off.  
Thank you!

Sound check: You should hear music playing right now.  
If not, please check your sound.

## Victory Garden 101 Plan

- Apr. 7 - Preparing Your Garden Site & Soil
- **Today – Basic Garden Planning for Success**
- Apr. 21 – Grow Your Own Salad
- Apr. 28 – Tips for Great Tomatoes
- May 5 – Using Your Vertical Space
- May 12 – Water, Weather & Weeds
- May 19 – Common Insect Problems
- May 26 – Common Disease Problems

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## Topics for Today:

- Choosing what to grow
- Steps for Planning
- Planning in Time: When to Plant
- Planning in Space: Where to Plant
- Merging Planning in Time & Space
- Quick Intro to Crop Rotation

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## What is Your Garden Priority?

Fresh Vegetables During the Season  
Canning/Preserving  
Saving Money on Groceries  
Growing Produce You Can't Afford/Find  
Enjoyment/Exercise/Hobby  
Kids' Activity/Educational



**1st Steps: Make a List of Vegetables**

<b>Must Haves</b>	<b>Would Like</b>	<b>Fun to Try</b>
• Tomatoes	• Beets	• Snap Peas
• Peppers	• Carrots	• Melons
• Herbs	• Squash	• Garlic
• Salad Greens	• Cucumbers	• Chinese Radishes

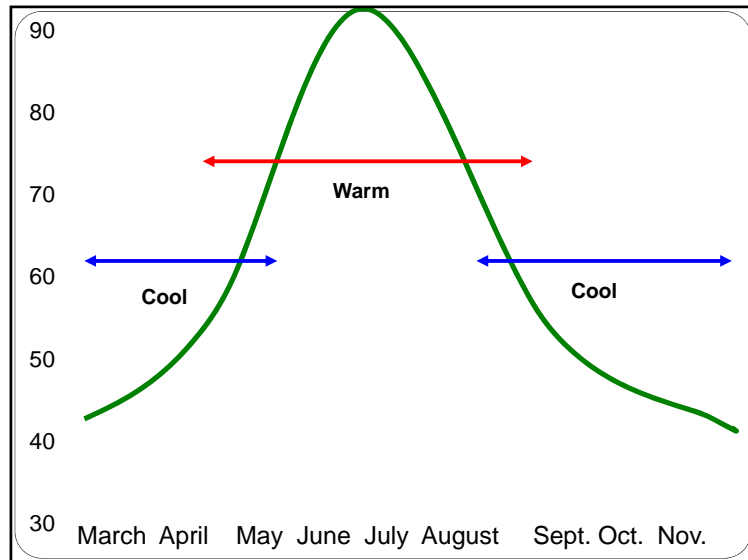


## Planning in Time: When

Planting Time  
 Harvest Time  
 Fall & Winter Gardening

## Planning in Time

Cool Season Vegetables    Warm Season Vegetables



## Cool Season Vegetables



- Prefer cooler, moderate temperatures
- Tolerate frosts and cold weather
- Can be over-wintered with protection
- Grow best in spring and fall
- May bolt, lose quality, or die in the heat

## Warm Season Vegetables

- Need warm temperatures to grow
- Will grow best during the heat of summer
- Usually do not tolerate frosts or freezes
- Usually cannot be over-wintered

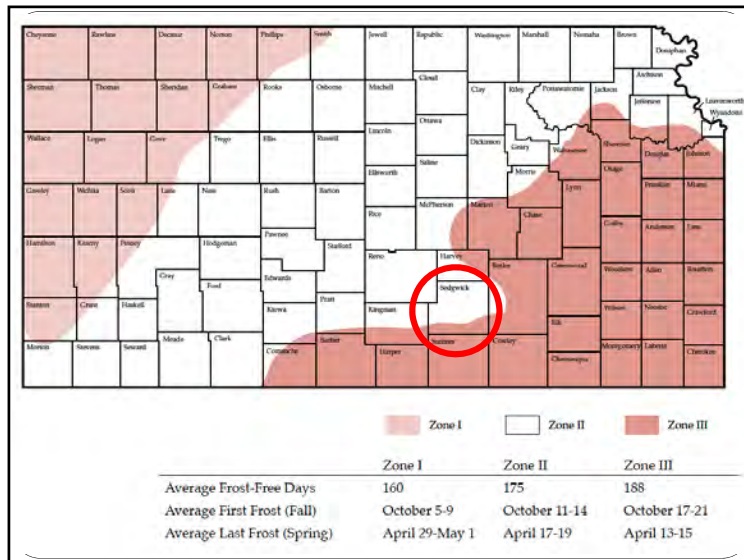


### Cool Season

- Lettuce
- Radishes
- Spinach
- Potatoes
- Onions
- Peas
- Carrots
- Asparagus
- Rhubarb

### Warm Season

- Tomatoes
- Cucumbers
- Beans
- Peppers
- Melons
- Sweetpotatoes
- Pumpkins
- Squash
- Eggplant



## Beware of Frost!

- A 50-50 chance of frost: April 17<sup>th</sup>
- 50% April 17
- 40% April 20
- 30% April 23
- 20% April 27
- 10% May 2





## Planting Time

- Soil Temperature is MOST important
  - Cool Season - 45° F
  - Warm Season - 55° F
  - Very Warm Season - 60° F
- Measure at 2-3" soil depth in late morning



## Think About Days to Maturity

- There is often a sharp difference
  - Tomatoes – 52 to 100+ DTM
  - Sweet Corn – 62 to 94 DTM
  - Broccoli – 55 to 75 DTM
  - Eggplant – 50 to 80 DTM
  - Lettuce – 45 to 75 DTM

**Red Determinate**

**178 POLBIG (F1):** 60 days (F, V, T, V) Compact plant, perform well in cool climates. High yields of very good tasting, meaty 4-6 oz. globe-shaped fruit. Uniform ripening time. Excellent deep red internal and external color. PKT \$4.95; 100 Seeds \$9.95; 250 Seeds \$18.95; 500 Seeds \$33.50; 1,000 Seeds \$61.95.

**725 OREGON SPRING:** 60 days (V) Medium-sized, early, cold tolerant. Avg. 6-7 oz. fruit. First early harvest for cool northern or high-elevation locations. Compact plant. PKT \$3.45; 250 Seeds \$6.65; 500 Seeds \$15.35; 1,000 Seeds \$27.55; 5M @ \$23.31/M; 10M @ \$21.00/M.

**2623 BHN-189 (F1):** 64 days (F2, V) Valley Girl-type. "Hot set" type similar to

**DEFIANT PHR (F1):** 70 days (F, B, AB, V, F2) Red for both disease resistance and taste. 8-10 oz. slicer has high resistance to late blight and intermediate resistance to early blight combined with great taste. The 6-8 oz., globe-shaped fruit are smooth and medium-firm with good

**3808 MOUNTAIN FRESH PLUS (F1):** 75 days (N, F2) The most widely grown market tomato in the East and Midwest. Able to tolerate cool and wet conditions, this big red tomato produces attractive, 8-16 oz. slicers with good taste. Developed by Dr. Randy Gardner at NCSC, Vigorous



## Planning in Space: Where

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Types of Layouts  
Spacing  
Using Space Efficiently

## Making the Most of Your Space

- Small Spaces
  - Plant most productive things
  - Plant most expensive things
- Medium Spaces
  - Plant productive things
  - Plant things you love
- Large Space
  - Plant anything, but prioritize

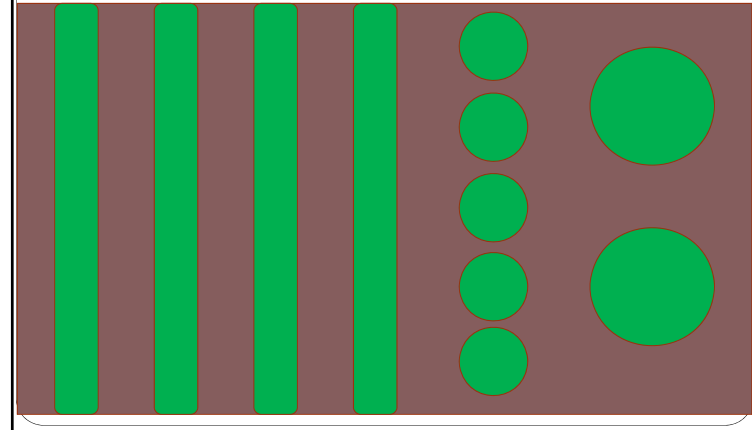
## A Few Thoughts About Layout

- Group early crops together
- Think about tools and labor

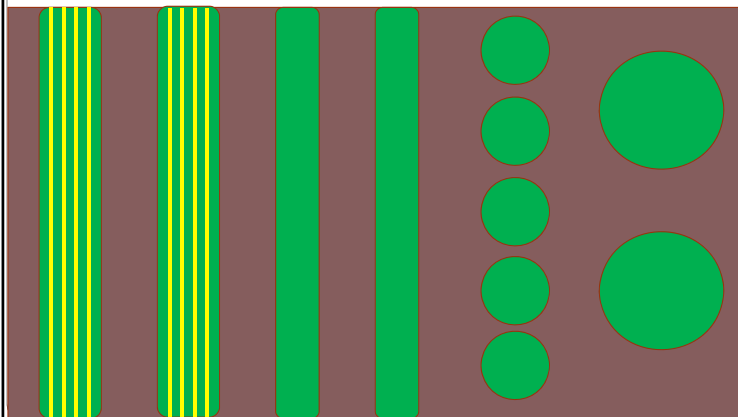
## Types of Layouts

- Rows
- Wide Row – Bed System
- Raised Bed Grid

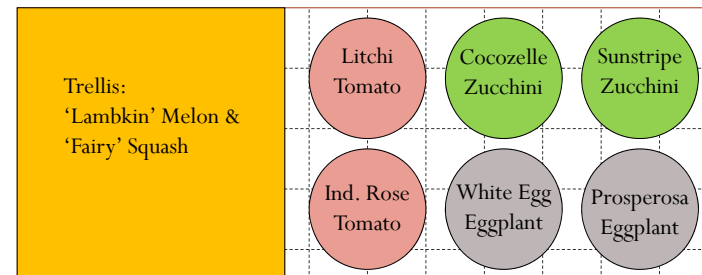
## Rows

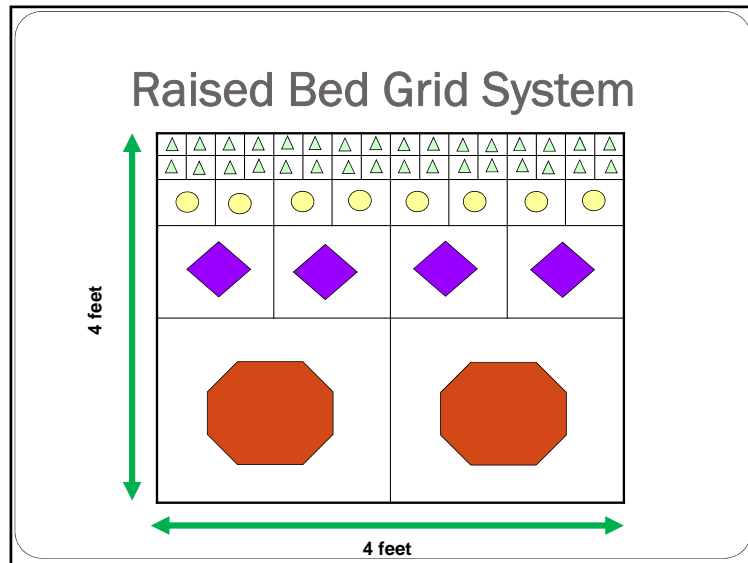


## Wide Row/Bed System



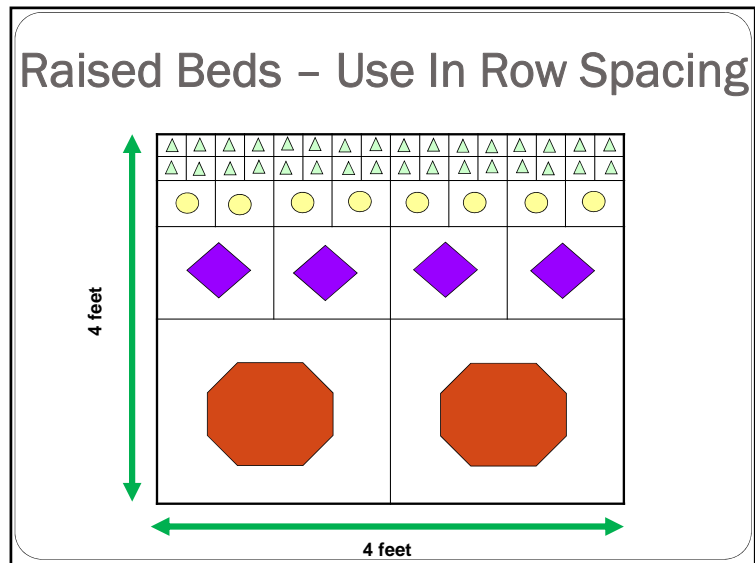
## Raised Bed Grid System





### How Do We Determine the Spacings?

- Vegetable Garden Planting Guide
- In Row Spacings
- Between Row Spacings





## Use the Vertical Space



What about Sun?

Slope?

East-West Rows?

North-South Rows?

Companion Planting?

**You Can Stop Here if You Want!**

## Merging Space & Time

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Planting in the Same Spot Multiple Times

## Short Season Vegetables

- Radishes
- Some lettuces
- Salad mixes
- Spinach



## Half Season Vegetables

- Potatoes
- Onions
- Beets
- Carrots
- Peas
- Beans
- Lettuces
- Broccoli



## Vegetables That Can Start Late

- Okra
- Sweet Potatoes
- Vine Crops
- Eggplant
- Peppers
- Even Tomatoes!



## “When It’s Time to Move On...”

- Dying or Diseased
- Low Productivity
- Hot Summer Temps
- Cool Fall Temps

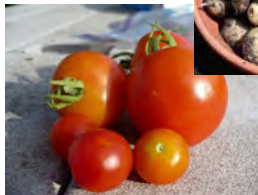


## Crop Rotation

### Crop Rotation

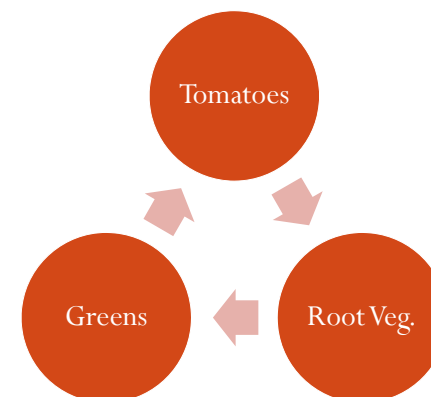
- Maintains healthy soil
- Breaks insect and disease cycles
- Plant vegetables from different “families”

### Rotate by Plant Families



- Vine crops
- Tomato Family
- Leafy Greens
- Root Vegetables
- Beans & Peas
- Brassicas
- Other Misc.

### Simple Crop Rotation



## What if You Can't Rotate?

- Choose Disease Resistant Varieties
- Watch for Disease Problems
- Watch for Nutrient Deficiencies

Your Garden Plan Can Be as Simple or as Complex as You Want it to Be!

## Questions?

- For More Information:
  - Master Gardener Hotline
    - [sgemghotline@gmail.com](mailto:sgemghotline@gmail.com) - preferred
    - 316-660-0190
    - M-F, 9-12 and 1-4
    - Walk-In Clinic (not right now, but eventually)
  - Extension E-Newsletter
    - Text: EXTENSION to 42828
  - Horticulture Information Center:
    - <http://hnr.k-state.edu/extension/info-center/>

## Social Media

- Facebook Page:  
<http://facebook.com/sedgwickextension>
- Instagram: @ksresedgwickco
- The Demo Garden blog:  
<http://thedemogarden.org>