



Setting the Stage

- What are your goals?
 - A salad now and then
 - Growing a major part of your
- · What are your assets?
 - You time and knowledge
 - Your growing space
 - Your living and storage space
- Do you have a network?



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Why Grow Your Own Vegetables

- Freshness
- Money savings
- Variety
- Health
- Activity
- · Self sufficiency



Impact of a Vegetable Garden

- Lettuce 3 spring salads, 8 fall salads Cucumbers 118 Green beans 8.5 lbs

- Tomatoes 218 Bell peppers 30
- Onions 12 green + 13 small bulb
- Eggplant 40
- Broccoli 8 Cabbage 3
- Cauliflower 5
- Radish 5 bunches

Herbs –

- Basil – 8 bunches

- Parsley – 11 bunches

- Sage – 2 bunches

- Rosemary – 1 bunch
Flowers – zinnias (7 bouquets); sunflower
(38)

Harvest from 4'x24' Bed



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The Harvest - Value

| • | Lettuce - 3 spring salads, 8 fall salads | | \$20.06 | |
|---|---|------------------|----------|--|
| • | Cucumbers – 118 | | \$85.00 | |
| • | Green beans - 8.5 lbs | | \$14.36 | |
| • | Tomatoes – 218 | | \$109.00 | |
| • | Bell peppers – 30 | | \$20.70 | |
| • | Onions - 12 green + 13 small bulb | | \$3.38 | |
| • | Eggplant – 40 | | \$15.92 | |
| • | Broccoli – expected 8 | | \$7.16 | |
| • | Cabbage – expected 3 | | \$4.14 | |
| • | Cauliflower – expected 5 | | \$14.95 | |
| • | Radish – expected 5 bunches | | \$5.59 | |
| • | Herbs – | | \$24.85 | |
| | Basil – 8 bunches | \$19.92 | | |
| | - Parsley - 11 bunches | \$8.69 | | |
| | Sage – 2 bunchesRosemary – 1 bunch | \$4.98 \$2.49 | | |
| | Flowers – zinnias (7 bouquets); sunflower (38) | \$2.49 | \$59.00 | |
| | riowers zimilas (/ bouquets), sumiower (36) | | Ş33.00 | |
| | | | | |



What do You Need to Garden?

- A place to grow sunlight, water, air, and soil
- · Knowledge and time
- Hand tools spading fork, hoes, shovel/space, trowels
- Power tools?
- Supplies hoses, sprinklers, sprayer, hoops, row cover
- Nice things to have
 - Extra refrigerator
 - Freezer
 - Dehydrator
 - Pressure cooker
 - Vegetable storage areas

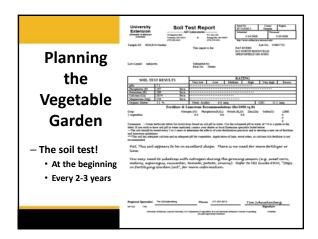
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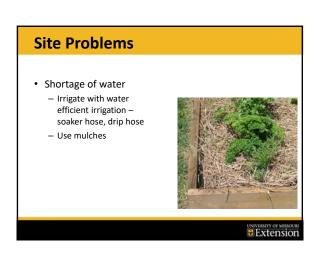
Planning the Vegetable Garden Sunlight Water Air Allow for good air movement around the garden Allow for proper spacing among plants



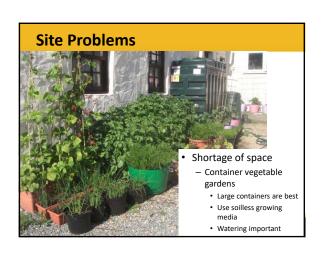




• Soil problems – compacted, heavy, poorly drained, rocky, pH issues - Soil amendments, especially compost - Provisions for drainage - Raised bed gardens











Site Problems

- Shortage of space
 - Grow miniature or non-vining cultivars



Planning the Vegetable Garden

- What should you grow?
 - Plant what you like to eat!
 - Consider that some vegetables require lots of resources (space, water, time) – corn, winter squash, sweet potatoes
 - How about a network of gardens?
- How much should you plant?
 - How much can you take care of?
 - What are your goals?

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Planning the Vegetable Garden

- Start with vegetables that taste good fresh!
 - Tomato
 - Asparagus
 - Sweet corn
 - Peas
 - Green beans
 - LettuceSummer squash
 - Green onionsNew potatoes

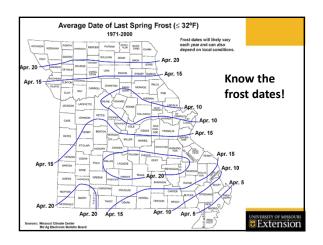


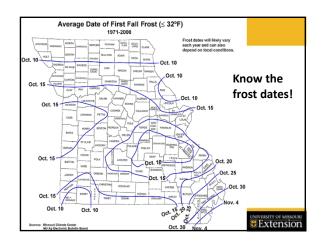
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Planning the Vegetable Garden

- Choose cultivars that will grow in your area
- Check out the MU Extension Vegetable Planting Calendar – see http://extension.missou ri.edu/explorepdf/aggui des/hort/g06201.pdf







Planning the Vegetable Garden

 Plant cool season vegetables at the proper time



Planning the Vegetable Garden

• Plant warm season vegetables at the proper time



Planning the Vegetable Garden

- Distribute your harvest over a longer period of time
 - Plant short, medium, and long season cultivars
 - Succession plantings
 - May 1 Green bean planting 1
 - June 1 Green bean planting 2
 - July 1 Green bean planting 3
 - August 1 Green bean planting 4



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Planning the Vegetable Garden • Know the days to harvest for your vegetables CORROT Tonda di Parigi Dunce creat status P





Planning the Vegetable Garden

- · Why is crop rotation important?
 - Rotation focuses on not planting vegetables in the same place in the garden for consecutive growing seasons
 - Benefits of rotation
 - Less problems with diseases that are found in the soil
 - Decreased insect problems
 - Utilize nutrients already in soil provided by previous crop

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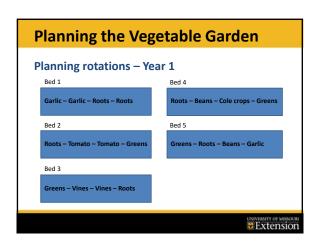
Planning the Vegetable Garden

Planning rotations - remember the groups!

- Tomato and kin tomato, pepper, eggplant, potato
- Vines cucumber, squash, melons
- Roots beet, carrot, turnip, radish, parsnip, onion
- Greens spinach, lettuce, kale, Asian greens
- Cole crops cabbage, broccoli, cauliflower, kohlrabi
- Beans green bean, southern pea, english pea
- Herbs

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Planning the Vegetable Garden Planning Rotations - Patrick's Garden Spring Garlic Roots Tomato/kin Tomato/kin Greens Greens Vines Roots Cole crops Roots Beans/misc Greens Spring Greens Garlic Garlic roots/beans Extension



Planning the Vegetable Garden

Planning rotations

- Rotation 3 (greens-vines-vines-roots)
 - Previous fall planted winter greens, harvest through winter and into current spring
 - Plant parsnip seed April 15 at end of bed, harvest in fall and winter
 - Plant cucumber April 1 (inside), May 1, and June 1; continuous harvest from June 15 to September 1
 - Plant zucchini May 1 and June 1, harvest July-August
 - Plant carrots July 15, harvest in fall and winter
 - Plant other winter vegetables as needed

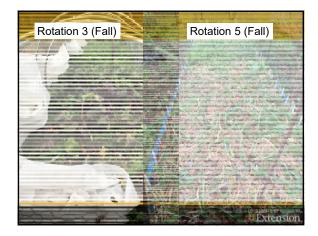
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Planning the Vegetable Garden

Planning rotations

- Rotation 5 (greens-spring roots/beans-garlic)
 - Previous fall planted winter greens, harvest through winter and into current spring
 - Plant carrots, beets, radish on March 15, harvest June
 - Plant more carrots on April 1, harvest June 15
 - Plant green beans on April 15 (inside), May 1, June 1, and July 1; continuous harvest from July 15 to September
 - Plant garlic on September 15

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Planning the Vegetable Garden

Planning rotations

- · Tuck-in plants
 - Herbs great companion plants
 - Radish short time from planting to harvest
 - Beets/turnips eat entire plant when small
 - Leaf lettuce eat when small
 - Onions pull when small and enjoy as green onions
 - Flowers habitat for pollinators

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Starting Seed Indoors



- Why?
- Vegetables to consider
- When should I plant?
- What should I plant in?
- What type of growing media?
- · The process...
- Hardening off

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Starting Seed Indoors

- Why start seed indoors:
 - To get a jump on the season
 - To have transplants to fit into rotations
 - Best use of expensive seeds
 - Natural part of saving seed



Starting Seed Indoors

- Vegetables to consider:
 - Tomato
 - Pepper
 - Vine crops
 - Cole crops
 - Onions
 - Chard, spinach, lettuce
 - Herbs like parsley and basil



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Starting Seed Indoors

- When should I plant?
 - Generally, plant 4-6 weeks before you plan to plant in the garden
 - Example:
 - Plant kohlrabi seed on March
 1 for a planting date of April 1
 - Plant cucumber and tomato seed on April 1 for a garden planting date of May 10
 - Plant head lettuce and spinach on August 1 for a planting date of September 1



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Starting Seed Indoors

- What should I plant into?
 - Sanitation is critical use new containers, or sanitize reused containers (for a gallon of sanitizer, mix 1% cups bleach with
 - 14½ cups water)

 Planting containers
 - Flats or pans
 - Flats or pa
 Cell packs
 - Pots

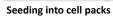


Direct seeding into a flat

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Starting Seed Indoors







Seeding into pots

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Starting Seed Indoors

- The germination and growing media
 - Sterile and fine texture
 - Well drained but holds moisture
 - Mixtures with soil consider sterilizing (2 hours at 170°F
 - Soilless mixtures



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Starting Seed Indoors

- The process
 - Plant seed at the proper depth
 - Good germination depends on:
 - The right temperature
 - The right humidity
 - The right media moisture
 Water from below or use mist bottle



Starting Seed Indoors

- Hardening off seedlings
 - Prepare seedlings for garden conditions:
 - Wind
 - Temperature fluctuations
 - Direct sun
 - · Lower humidity
 - Gradually expose seedlings to outdoor conditions



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Planting Seed Outdoors

- · Plant at the proper time
- Plant at the proper depth
- Plant at appropriate density
- Avoid crusting of the soil – mist daily



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Planting Seed Outdoors

- · Germination time varies
- Thinning may be necessary
- Planting plan
 - Plant seed in rows space rows appropriately
 - Plant seed in beds
 - Proper spacing can be a challenge





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Planting Transplants

- Purchasing transplants can save time and energy
- Purchase good quality transplants
 - Disease/insect free
 - No nutrient issues
 - Well grown
 - Not leggy or overmature



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Planting Transplants

- Plant in the garden at the proper time
 - Remember frost dates!
 - Remember soil temperature!
 - Don't plant too early!





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Preparing a New Garden Site

- Destroy perennial weeds
- Amend the soil as directed by soil test
- Apply compost
- Turn or till the soil initially





Garden Layout Tips

- Plant perennials together on one side of the garden or in a different spot to avoid interference with working.
- Group quickly maturing crops together or plant them between rows of crops that mature later. (Interplanting/Succession)
- Plan the distance between rows according to cultivation methods. No sense in planting if you can't get between the rows!

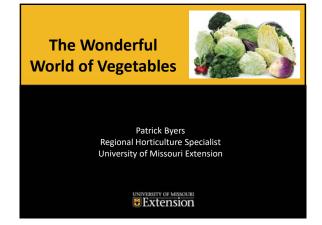
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Pest Control/Prevention

- Dispose of crop residue (leftovers)
- Rotate Crops
- · Use "treated" seeds
- Use "resistant" varieties
- Purchase healthy transplants
- · Use limited chemicals if necessary







Vegetable Classification

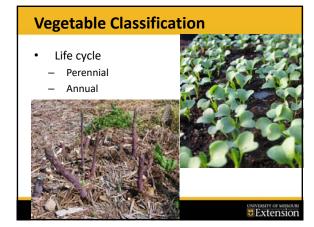
- The part that you eat
 - Root Crops- carrots, onions, radishes, turnips, parsnips, rutabaga
 - Green part (stems, flowers, leaves, immature fruits) – lettuce, cabbage, greens, broccoli, okra, asparagus
 - Fruits and berries tomatoes, peppers, eggplant, squash, melons, corn

Vegetable Classification

- · Season of production
 - Cool season
 - Spring
 - Fall
 - Warm season
 - Summer

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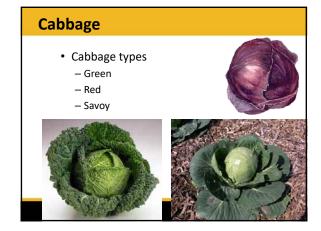
Vegetable Classification

- Family relationships
 - Cole crops broccoli, cauliflower, cabbage, brussel sprouts, kale, collards, radish, turnip
 - Alliums onion, garlic, leek, shallot
 - Legumes- peas, beans
 - Vine Crops- pumpkins, squash, melons, cucumbers
 - Solanaceous crops tomato, potato, eggplant, pepper
 - Other- lettuces, sweet potato, corn, okra, asparagus, rhubarh

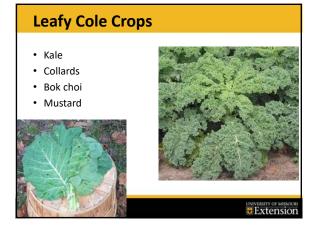


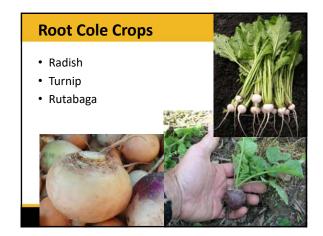
Cole Crops

- All members of the mustard family, Brassicaceae, and of the genus/species Brassica oleracea L.
 - B. oleracea var. capitata: cabbage
 - B. oleracea var. botrytis: broccoli, cauliflower
 - B. oleracea var. caulo-rapa: kohlrabi
 - − B. oleracea var. gemmifera: brussels sprouts
 - B. oleracea var. acephala: collards, kale









Cole Crops

- Culture
 - Most are cool season crops, doing best in temperatures of 60-65° F; grow for spring or fall crops
 - Most will not tolerate hot temperatures bolt, develop strong flavors, refuse to develop

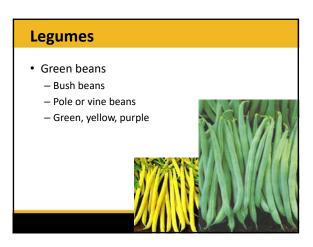
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Cole Crops

- Culture
 - Well drained soil, with pH of 6.5-7.5
 - Often grown as transplants (broccoli, cabbage, Brussels sprout, cauliflower), also grown from seed (kohlrabi, chinese cabbage, radish, kale, collards)
 - Plant transplants 2 weeks before last frost date (April) (for spring crop) or August 1 (for fall crop)
 - Don't plant after other cole crops Heavy nitrogen feeders
- Challenges
 - Cabbage worm complex
 - Insect netting
 - Bt or other insecticides



Legumes • English peas - Standard peas – Edible pod peas





- Southern peas
 - Black eyed peas
 - Purple hull peas

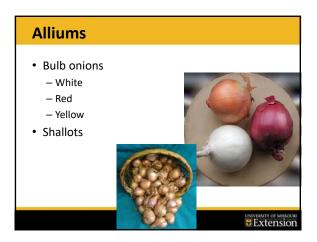


Legumes • Many different types of seed beans! - Lima - Navy - Kidney

Legumes

- Culture
 - Warm season (green beans, beans, southern peas) and cool season (English peas)
 - Usually direct seeded
 - Harvest before seed is mature (green beans, English peas, southern peas) or when seed is mature and dry (beans)

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Alliums

- Garlic
 - Soft neck
 - Hard neck
 - Elephant garlic



Alliums

- Bunching onions
- Leeks
- Chives



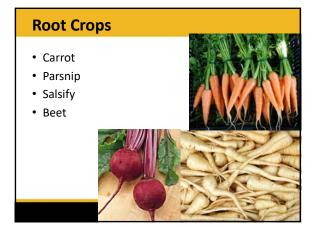




Alliums

- Cool season crops
- Most are grown from sets (small plants) or bulbs
- Often planted in spring for harvest in summer and fall (garlic is exception, planted in fall)
- General culture
 - Well drained soil
 - pH 5.5-7.0
- Challenges
 - Bulb rotsBulbs that don't keep

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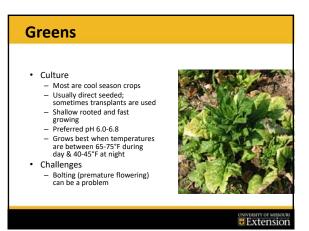


Root Crops

- Culture
 - Most are cool season crops; optimum temperature: 60-70° F
 - Most are direct seeded
 - Most do best in lighter soils
 - Harvest when large enough to eat









Asparagus

- Culture
 - Perennial cool season vegetable
 - Deep rooted
 - Direct seeding is not recommended; plant crowns; greenhouse grown transplants can be used
 - Male cultivars are superior

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Rhubarb • Types of rhubarb — Red stalks — Green stalks

Rhubarb

- Culture
 - Cool-season perennial
 - Leaf blades contain a toxin called oxalic acid and are not edible!
 - Prefers well-drained soil & high organic matter
 - Can be grown from seed, but best to plant crowns
 - Fall is the best time to divide

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Vine Crops

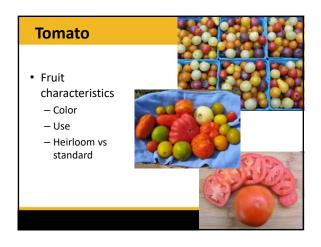
- Squash
 - Summer
 - Winter
- Pumpkin
- MelonCantaloupe
 - watermelon
- Cucumber
- Gourd



Vine Crops

- Culture
 - Warm season crops
 - Usually direct seeded (can use transplants for earlier crop)
 - Often planted in hills
 - Vine types and bush types
 - Harvest at proper time
- Challenges
 - Insect pests
 - Diseases







Banana peppers

- Hot peppers



Eggplant (Aubergine)

- Fruit characteristics
 - Oval
 - Asian
 - Fruit colors
 - Purple
 - White
 - Striped



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Tomato, Pepper, Eggplant

- Culture
 - Warm season crops
 - Often started from transplants
 - Optimum temperature: 65-85° F
 - 65° nights are ideal
 - Temps >90° affect fruit set
 - Fruit ripening: temps >85° inhibits lycopene (red pigment in tomatoes)
 - Trellis or stake tomato plants to increase garden space and produce better crops.
 - Harvest when fruit is fully developed
- Challenges diseases, insects

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Potato

- Tuber characteristics
 - Harvest season early, midseason, late
 - Flesh color
- Intended use
 - Baking
 - Boiling
 - General purpose
 - Storage



Potato

- Culture
 - Cool season crop
 - Plant from tubers or parts of tubers
 - Plant mid-March through April
 - Excessive nitrogen delays tuber formation
 - Can dig for new potatoes when flowers form
 - Allow vines to die back before digging for storage
- Challenges Colorado potato beetle

Sweet Corn

- Types of sweet corn
 - su cultivars (standard)
 - se cultivars (sugar enhanced)
 - sh₂ cultivars (super sweet)
 - Yellow, bicolor, and white



Dried Corn

- Popcorn
- · Ornamental corn



Sweet Corn

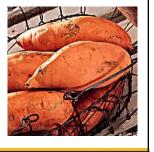
- Culture
 - Warm season crop
 - Usually direct seeded
 - Plant enough to allow for pollination
 - Optimum temperature: 56-86° F
 - Needs plenty of nitrogen
 - Moisture is critical during silking & ear dev.
 - Preferred pH: 6.0-6.5
 - Harvest when kernels are developed but before starchy taste (sweet corn) or after the ears have dried (dry corn)
- Challenges corn earworm

- Harvest pods when small

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Sweet Potato

- Culture
 - Warm-season crop; very cold-sensitive
 - Plant slips shoots that grow from the root
 - Optimum temperature: 70-85
 - Optimum pH: 5.8-6.0
 - Grow in raised beds to avoid poor yields
 - Harvest before frost, or cut off frosted vines



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Okra • Culture — Warm season crop

Herbs

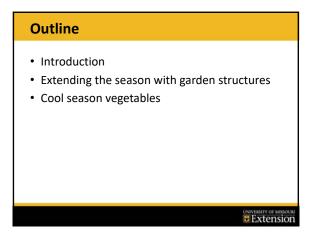
- · Mint family (Lamiaceae)
 - Spearmint, peppermint, other mints
 - Basil
 - Rosemary
 - Lavender
 - ThymeSage
 - Marjoram, oregano



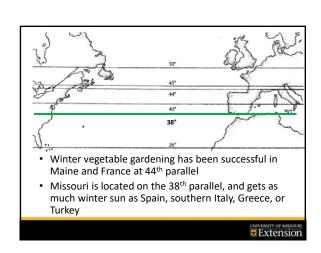








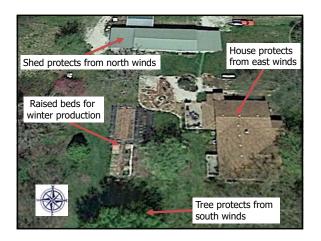
• Keys to success - Select your site very carefully - Select the most cold tolerant crops - Cover your crops UNIVERSITY OF MARKAURE Extension



Introduction

- · Choosing a site
 - South facing sites are preferred
 - A slope to the south is good
 - Prevent wind chill if possible, especially from the north
 - · Hedges, windbreaks
 - · Fences or walls
 - Avoid low lying areas where cold air sinks
 - Locate near a heat sink source patio, stone wall, brick wall
 - Shady summer sites may have enough sun during the winter – fallen leaves, different sun angle

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Introduction

- Grow winter crops to harvestable size by mid/late fall
- · Plant more than you think you need
- Crops grow very little in the winter months December-January
- February crops will start to grow again
- Crops may be held at harvestable size for many months with protection

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Plant Covers

- · Plant covers work by:
 - Trapping the sun's heat during the day
 - Trapping heat in the ground at night
 - Additional heat sinks (walls, insulation) provide additional heat
- Minimal water needs during the winter
- Minimal pest pressure during the winter



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What temperatures can I expect in my protective structures? Sample nighttime low temperatures (*F)

| Outside | Cold Frame | Tunnel | Double Coverage | |
|------------|-------------------|-----------------|-----------------|--|
| -10 | 6 | 4 | 18 | |
| 0 | 14 | 11 | 25 | |
| 18 | 28 | 24 | 36 | |
| Sa | mple daytime high | temperatures, u | nvented (°F) | |
| Outside | Cold Frame | Tunnel | Double Coverage | |
| Sunny day | | | | |
| 5 | 60 | 42 | 78 | |
| 20 | 75 | 60 | 85 | |
| Cloudy day | | | | |
| 30 | 45 | 45 | 60 | |

High Tunnels

- High tunnels are larger version of low tunnels made with a poly-cover
- Require a rigid frame
- With a greater ground cover and volume of air –keep in more heat
- Able to get into on very cold days if a door is built
- Harvest during the day when temperatures are not freezing





Plant Covers

- Cold frames, hotbeds
 - Location is important
 - Frame will stay closed most of the time
 - Harvest during the day when temps are above freezing



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Plant Covers

- Low tunnels
 - Use poly covers or row covers (consider 2 layers)
 - Harvest during the day when temps are above freezing





Low Tunnel Construction

(For a 2' wide by 18' long planting bed)

- Hammer ten, 2 ft. long pieces of 3/8 in. rebar, 10 inches into the ground along each side of the planting row.
- Drive the rebar 10-12" into the ground, leaving about 14" above ground. The five sets of rebar are there to support five pvc bows. To give the first and last plants a little extra room add one foot to each end of the low tunnel. This gives a 5-ft. space between the 1st and 2nd bows and the 4th and 5th bows, and 4-ft. spacing between the 2nd and 3rd, and 3rd and 4th the 3rd and 4th the



Low-Tunnel Construction

- Cut ten, 10 ft. long pieces of 1/2 in. pvc water pipe into 8 ft. long pieces and slide them over the rebar to make five bows.
- Connect the bows at the top with stretchy clothesline and along each side with some nylon twine.
- Cut and drape a piece of 22 ft. long X 10 ft. wide row cover over the frame, and secure it to the ground with sod pins, bricks or boards.





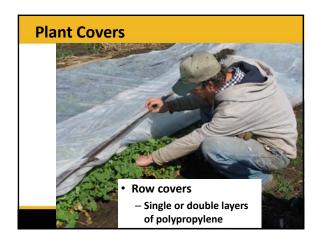
The Low Tunnel in Fall - Winter

- Plant your fall crop in the open or under shade cloth
- Once temperatures drop below ideal, install the low tunnel
- Keep the low tunnel installed till maturity
- 2-8 degrees of frost protection, depending on thickness
- May need to vent on warmer days



Good for any fall crop that need more time to mature or to keep summer crops producing longer





| Germination/Growing Temperatures | | | | | | | |
|----------------------------------|--------------------|---------------------------------|------------------------|--------------------------------|----------|--|--|
| Crop | Min Germ. Temp. | Optimum Range Germ. Temp. | Growing Temp. Range | Growing Temp. Optimal Range | Hardy to | | |
| Parsnip | 35 F | 50-70 F | 40-75 F | 60-65 F | 5 F | | |
| Arugula | 35 F | 45-70 F | 40-75 F | 60-70 F | 5 F | | |
| Spinach | 35 F | 45-75 F | 40-75 F | 60-65 F | 8-12 F | | |
| Cabbage | 40 F | 45-95 F | 40-75 F | 60-65 F | 12-20 F | | |
| Beet/Chard | 40 F | 50-85 F | 40-75 F | 60-65 F | 15-25 F | | |
| Lettuce | 35 F | 40-80 F | 45-75 F | 60-6 5F | 20-25 F | | |
| Pea | 40 F | 40-75 F | 45-75 F | 60-65 F | 18-25 F | | |
| Cucumber | 60 F | 60-95 F | 60-90 F | 65-75 F | 32 F | | |
| Eggplant | 32 F | 75-90 F | 65-95 F | 70-85 F | 32 F | | |
| Tomato | 50 F | 60-85 F | 65-95 F | 70-75 F | 32 F | | |

Cool Season Vegetables

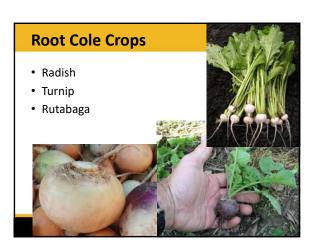
- Characteristics of cool season vegetables
 - Optimum germination and growth occurs during cool temperatures
 - Ability to tolerate **light** frosts, or even hard freezes with protection
 - Poor growth during periods of hot temperatures
 - Some crops require cool weather to establish, but are generally not planted for fall/winter gardens
 - Onions and potatoes

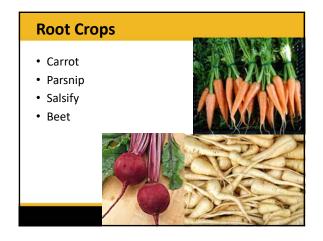
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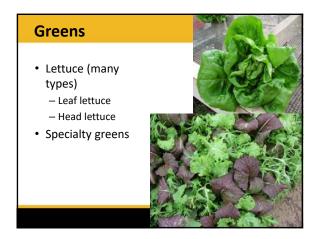
Cool Season Vegetables

- Cool season vegetables
 - Root crops Radishes, turnip, rutabaga, carrots
 - Garden or English peas
 - Lettuce, spinach, chard
 - Cole crops

















| Its All About Scheduling | | | | |
|--------------------------|---------------|--|--|--|
| Vegetable | Planting Date | | | |
| kohlrabi – winter | 1-Jul | | | |
| kale – winter | 5-Jul | | | |
| carrots – winter | 15-Jul | | | |
| kale – winter | 20-Jul | | | |
| chard - winter | 1-Aug | | | |
| lettuce - winter | 1-Aug | | | |
| lettuce - winter | 20-Aug | | | |
| pak choi | 20-Aug | | | |
| beets - winter | 1-Sep | | | |
| spinach | 1-Sep | | | |



Managing Row Covers in Winter

- Have hoops in place in October
- Cover plants with row cover when temperatures drop below freezing
 - One layer for temperatures between $20 30^{\circ}F$
 - Two layers for temperatures below 20°F
 - Remove row covers when temperatures are above $30\ensuremath{^\circ F}$

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Storing Fresh Vegetables

- Important considerations
 - Temperature
 - Relative humidity
- Cool and humid root crops, potato
- Cool and dry onion, dried vegetables
- Warm and humid sweet potato
- Warm and dry winter squash, garlic, pumpkin

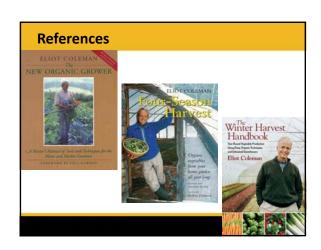




Putting Vegetables By

- Drying
 - Dehydrator (or other energy source)
 - Finished product does not take up much space
- · Pickling, fermenting





References

MU Guides on vegetable gardening

- G6201, Vegetable Planting Calendar
- G6202, Disease Prevention in Home Vegetable Gardens
- G6203, Common Diseases in the Home Garden
- G6204, Managing Nematodes in Gardens
- G6226, Vegetable Harvest and Storage
- G6400, Frequently Asked Vegetable Questions
- G6461, Growing Home Garden Tomatoes
- G6470, Growing Herbs at Home
- G6965, Building and Using Hotbeds and Cold Frames
- G6985, Raised-Bed Gardening
- M163, Managing Insect Pests in the Home Vegetable Garden
- PS9, Common Vegetable Insects

Extension

References

MU Guides on vegetable preservation

- <u>GH1454, Quality for Keeps: Preserve Your Garden Delights How to Can Fresh</u> Vegetables
- GH1455, Quality for Keeps: Fruitful Canning
- GH1456, Quality for Keeps: Tantalizing Tomatoes How to Can Fresh Tomato Products
- GH1457, Quality for Keeps: Pickling Basics In a Pickle GH1459, Quality for Keeps: Pack a Pickled Product
- GH1501, Quality for Keeps: Freezing Basics GH1502, Quality for Keeps: Freezing Fruits
- GH1503, Quality for Keeps: Freezing Vegetables
 GH1507, Quality for Keeps: Freezing Unusual Fruits and Vegetables
- GH1562, Quality for Keeps: Drying Foods GH1563, Quality for Keeps: How to Dry Foods at Home
- GH1564, Quality for Keeps: How to Use Dried Foods
- MP562, Home Storage of Fruits and Vegetables in Root Cellars MX950, Complete Guide to Home Canning

