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Cucumbers

Successfully Growing in a High Tunnel or Greenhouse Environment

Slide 2


WHY GREENHOUSE / HT CUKES?

- ssss
 - Early Arrival
 - \$2.99/lb, possibly more at Farmer's Market
- Benefits
 - Digestive Issues
 - Thin Skin, Seedless
- Controlled Environment
 - Reduced Disease Pressure
- Longevity Unsure
- Land Limitations

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VARIETIES

- Market
- Yield
- Taste
- Resistance



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PICKLING

- Unistars (Johnny's)
- Excelsior (Johnny's, Seedway, Rupp)
- Picolino (Rupp)



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MEDIUM

- Katrina (Johnny's)
- Socrates (Johnny's)
- Proximus (Siegers)



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SLICING

- Corinto (Johnny's)
- Alcazar (Rupp)
- Saber (Rupp)



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EUROPEAN (LONG)

- Camaro (Rupp)
- Sweet Success (Harris)
- Taurus (Harris)
- Tyria (Johnny's)



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GROWING

- Seed Dates
 - Middle of March (heat)
 - 3rd Week April? (no heat)
- Transplant
 - 4-5 Gallon



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MEDIA

- Fafard Mix 1-PV
- Sterile Soil
 - 1 bucket / bale
 - Moisture retention
- Alternatives Likely



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SPACING

Initially No Spacing

- Heat Savings
- Plastic Curtain



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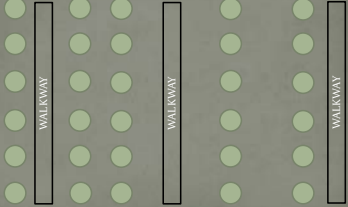
SPACING (cont)

- 18" spacing in row, adjustable between rows



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SPACING (cont)



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HIGH TUNNEL

- Design
 - 144' x 28'
 - Double Layer Plastic
 - Grow Mat
 - Two Roll Up Sides (6')
- Heat (optional)
- Portable, \$600



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THE ART OF TRELLISING



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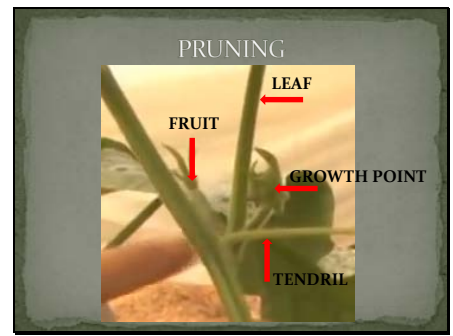
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- Lowering
 - Leaf Removal
 - Careful with stems, not like Tomatoes
- Support Clips
 - Every 2'-3'



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IRRIGATION

- 1" Main Line - 3/4" Feed Line
- 4 Way Manifold Assembly
- Super Flex 5/3 Tubing
- Angled Dripper
- Timer!!!!

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IRRIGATION (cont)

4 Way Manifold





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FERTILIZER

New England Vegetable Management Guide

- N-P-K
- High Nitrogen
- Low Phos
- Super High K
- Peter's 15-7-25
- Water Soluable
- 25lb bag

Crop Name	Planting Date	Harvest Date	Nutrient Requirements (lb/acre)				
			N	P ₂ O ₅	K ₂ O	Ca	Mg
Asparagus	10/15	10/15	100	10	100	10	10
Bean	5/15	8/15	100	10	100	10	10
Broccoli	6/15	9/15	100	10	100	10	10
Brussels Sprouts	6/15	9/15	100	10	100	10	10
Cabbage	6/15	9/15	100	10	100	10	10
Carrot	6/15	9/15	100	10	100	10	10
Cauliflower	6/15	9/15	100	10	100	10	10
Celery	6/15	9/15	100	10	100	10	10
Cherry Tomato	6/15	9/15	100	10	100	10	10
Cucumber	6/15	9/15	100	10	100	10	10
Eggplant	6/15	9/15	100	10	100	10	10
Garlic	6/15	9/15	100	10	100	10	10
Green Bean	6/15	9/15	100	10	100	10	10
Green Pepper	6/15	9/15	100	10	100	10	10
Kale	6/15	9/15	100	10	100	10	10
Leek	6/15	9/15	100	10	100	10	10
Letuce	6/15	9/15	100	10	100	10	10
Onion	6/15	9/15	100	10	100	10	10
Potato	6/15	9/15	100	10	100	10	10
Radish	6/15	9/15	100	10	100	10	10
Spinach	6/15	9/15	100	10	100	10	10
Squash	6/15	9/15	100	10	100	10	10
Swiss Chard	6/15	9/15	100	10	100	10	10
Tomato	6/15	9/15	100	10	100	10	10
Turnip	6/15	9/15	100	10	100	10	10
Winter Squash	6/15	9/15	100	10	100	10	10
Zucchini	6/15	9/15	100	10	100	10	10

Cucumbers 24 rows 100' 300' 35-72 100' 400'

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FERTILIZER (cont)

- Injector
 - Dosatron / Domatic
 - 20G Garbage Barrel
 - 1 x 25lb Bag
 - 1:100 ratio
 - 275 ppm




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FERTILIZER (cont)

2015

- 2 injectors
- Stock A
 - 5-11-26
 - MgSO₄
 - Iron Chelate
- Stock B
 - Cal Nitrate
 - KNO₃
 - MAP



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DISEASE / PEST CONTROL

- Fungicides
- Not typically needed with containers
- Will use Bioworks Cease / Milstop if needed



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INSECTS


- Biobest
- www.biobest.be
- Beneficials, no Insecticides
- Thrip, Aphids, Mites, Whiteflies, Shore Fly



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INSECTS (cont)

- Aphids



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INSECTS (cont)


- Whiteflies



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INSECTS (cont)


- Mites



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INSECTS (cont)

- Thrip



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