Cucumbers
Successfully Growing in a High Tunnel or Greenhouse Environment

Slide 2
WHY GREENHOUSE / HT CUKE?
• SSNS
• Early Arrival
• $2.99/lb, possibly more at Farmer’s Market
• Better fit
• Digestive issues
• Thin Skinned, Seedless
• Controlled Environment
• Reduced Disease Pressure
• Longevity Unsure
• Land Limitations

Slide 3
VARIEATIES
• Market
• Yield
• Taste
• Resistance

Slide 4
PICKLING
• Unistars (Johnny’s)
• Excelsior (Johnny’s, Seedway, Rupp)
• Picolino (Rupp)

Slide 5
MEDIUM
• Katrina (Johnny’s)
• Socrates (Johnny’s)
• Proximus (Siegers)

Slide 6
SLICING
• Corinna (Johnny’s)
• Alcazar (Rupp)
• Saber (Rupp)
Slide 7

EUROPEAN (LONG)

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

Slide 8

GROWING

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

Slide 9

MEDIA

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

Slide 10

SPACING

Initially No Spacing
- Heat Savings
- Plastic Curtain

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SPACING (cont)

- 18” spacing in row, adjustable between rows

Slide 12

SPACING (cont)
HIGH TUNNEL
- Design
- 144' x 28'
- Double Layer Plastic
- Grow Mat
- Two Roll Up Sides (8')
- Heat (optional)

Portable, $600

THE ART OF TRELLISING
Slide 19

TRELLIS OPTIONS

Slide 20

TRELLIS SUPPORT

Slide 21

TRELLIS SUPPORT (cont)

Slide 22

PRUNING

Slide 23

START PRUNING EARLY

Slide 24

SUPPORT

- Plant Needs Support Strength
- Not initially, but eventually
Slide 25

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

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- 1’ Main Line – ½” Feed Line
- 4 Way Manifold Assembly
- Super Flex 5/3 Tubing
- Angled Dripper
- Timer

Slide 27

- IRRIGATION (cont)

Slide 28

- FERTILIZER
- N-P-K
- High Nitrogen
- Low Phos
- Super High K
- Peter’s 15-7-25
- Water Soluble
- 25lb bag

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- Injector
- Dosatron / Dosmatic
- 2x6 Garbage Barrel
- x 25lb Bag
- 2,000 gal/s
- 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
DISEASE / PEST CONTROL

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

INSECTS

- Biobest
- Beneficials, no Insecticides
- Thrip, Aphids, Mites, Whiteflies, Shore Fly

INSECTS (cont)

- Aphids

INSECTS (cont)

- Whiteflies

INSECTS (cont)

- Mites

INSECTS (cont)

- Thrip
Nitrogen deficiency / Fruit Abort

Potassium deficiency
- Yellowing leaf borders
- Older leaves affected first

Thrip

Every 2 Days
- Avg 7.37 lbs
- Most 47.0 lbs

Fall Preparation
- Clean pick plants
- Cut Stems

Identifying Disorders
- Dr. Robert Wick