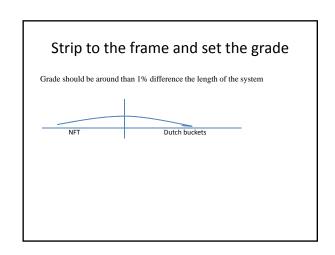


Two Different Commercial Hydroponic Systems • Nutrient flow technology (NFT) • Dutch bucket system







Weed control

• Lay down weed barrier

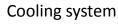


Cooling system

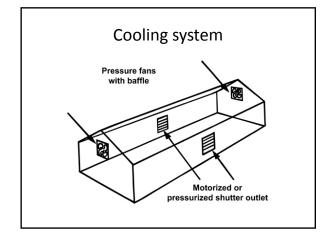
- Air flow
- Wet wall
- Fogging system
- Water chiller (NFT)
- Shade cloth
- http://extension.uga.edu/publications/detail. html?number=B792#Loss

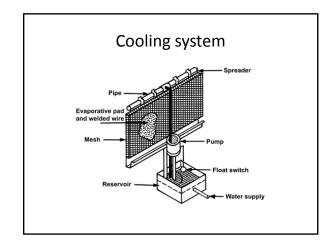
Cooling system

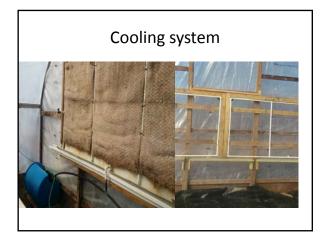
- Air flow/ Air exchange in cubic ft. per minute.(CFM)
- W x L x 8 = CFM of air exchange
- 30 x 96 x 8 = 23040 CFM
- Exhaust fans need to match CFM

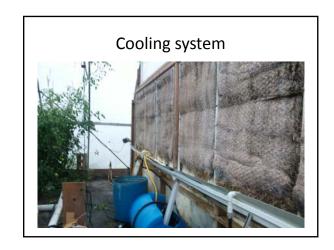




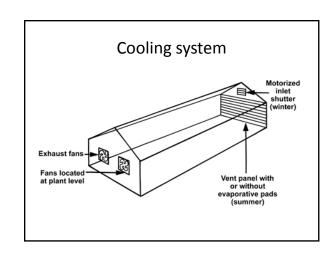


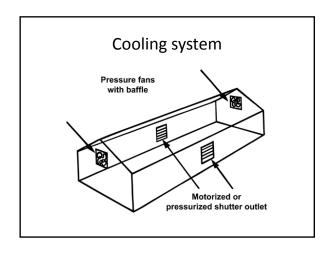














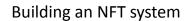
Building an NFT system



Building an NFT system

- 5 Gal bucket
- 4x4 post
- Gravel
- 2x4, 8' and 10'
- 1x2x8
- 4" 1/2 round Gutter 2, 800 gph pump
- ½" pink foam board Shower board
- ¾" poly pipe

- ¼" barbed connector
- ¼"tubing & close pins
- 4" drain pipe
- Water chiller
- Solution tank





Front view

Post 8' oc

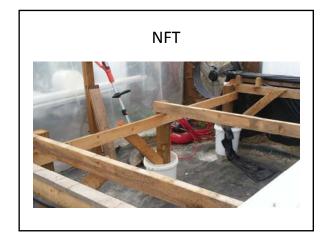


NFT



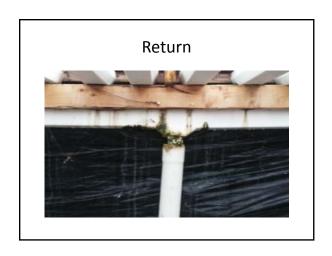
Side view

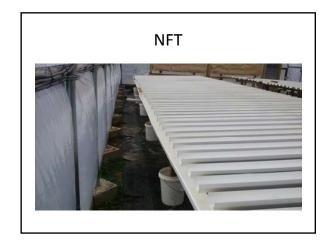


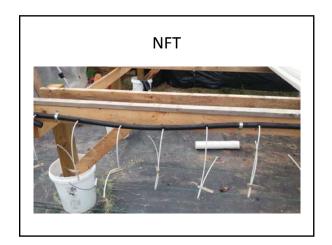


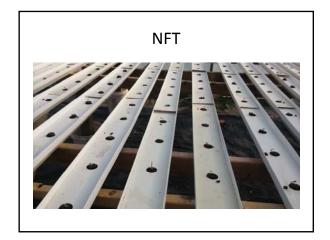


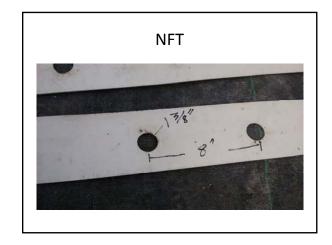


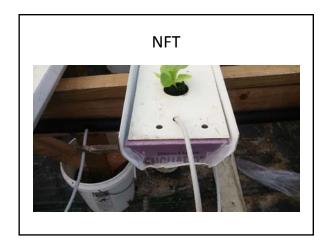


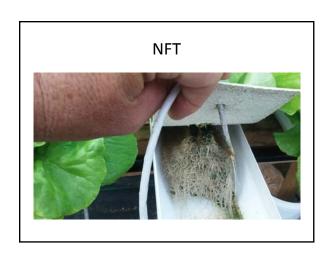












Making a Dutch bucket

- 5 Gal bucket
- ½" pvc pipe
- ½ pvc elbow
- Rubber grommet
- 1" OD ¾" ID
- 5 Gal grow bag









Dutch bucket system

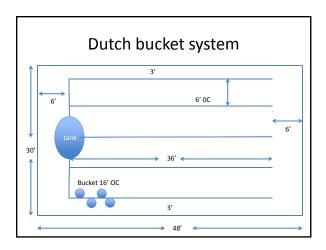
- Solution tank
- Sump pump and timer
- Acid meter
- Feed line

1/4" barbed connector

¼" tubing

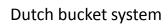
4" drain pipe

gravel











Dutch bucket system



Dutch bucket system



Support wire





Must have



Nice to have



Resourses

- http://www.farmtek.com/wcsstore/EngineeringS ervices/allbizunits/techdocs/113596 97 98 99 600 601.pdfhttp://
- <u>extension.msstate.edu/publications/publications/preenhouse-tomato-handbook</u>
- http://extension.uga.edu/publications/detail.htm l?number=B792#Loss