Tomato Field Production in Southern Illinois

Southern Illinois Fruit and Vegetable School

Illinois Extension

Site Selection and Fertility

- Tomatoes prefer well drained medium textured soils
- Choose an area with good sun exposure
- Rotate crops; avoid planting tomatoes after other solanaceous crops like peppers, eggplants, or potatoes
- Always get a soil test



Transplants

- Choose healthy disease-free plants
- Should be compact and not stretchy
- Allow transplants to harden off before transplanting
- If starting your own:
 - Use a trustworthy potting mix
 - Disease free seed
 - Clean cell trays or sanitize cell tray if you are reusing them
 - Provide good access to light

Pruning and Trellis systems

- Remove suckers when small if possible
- Use clean sharp pruners to remove larger suckers
- Prune before tying the first time
- Over pruning can stress plants and increase chances of sunburn
- Choose a trellis system that works best for your operation
- Consider: labor, time, budget, storage, space, and equipment that might be used in the field











Cultural Practices

Consider:

Location

- Minimal tillage/no-till
- Planting into a cover crop
- Conventional tillage
- Raised bed with plastic mulch
- Soil type
 Heavy, drought prone, drainage issues

· access, slope, erosion issue

- Weed control methods • Terminating cover crops, organic or conventional production?
- Resource allocation
 - Money, labor, time



Positives Negatives • Useful in problem areas • Weed control can be an issue • Less equipment • Cooler soil temperatures • Weather is less of a problem • Cooler soil temperatures • Plants can withstand drought • Can't incorporate fertilizer into the soil • Cleaner fruit • Banded fertilizer may need to be watered in during dry conditions



Plastic Mulch

Positives

- Promotes heat capture and warms soil
- Weed control
- Provides an ideal growing system for roots
- Conserves soil moisture
- Reduces soil splash caused by rain or overhead irrigation

Negatives

- Requires specialized equipment
- Weather can delay bed preparation
- Plastic removal and disposal add an extra step
- Trickle irrigation is highly recommended
- May hide rodent issues
- Cleaner fruit Less disease









Resources

- Midwest Vegetable Production Guide for Commercial Growers
- Vegetable Production Guide for Commercial Growers
 ID-36 put out by University of Kentucky Cooperative Extension Service
- Commercial Tomato Production

 PB 737 put out by The University of Tennessee Agricultural Extension Service
 Commercial Tomato Production Handbook
- B 1312-7 put out by University of Georgia Extension
 University of Illinois Extension Local Food Systems YouTube page
- https://www.youtube.com/c/IllinoisLocalFoods/videos



