

Hybrids

- A <u>hybrid</u> is a vegetable variety that has been developed by crossing at least 2 parents and selected for the best combination of characteristics.
- F1 hybrids are first generation
 - Cannot save seeds



Reasons to Select a Hybrid

- Consistency or Uniformity
- ODisease tolerance/resistance
- Compact plant habits/traits
- Quality



Heirlooms

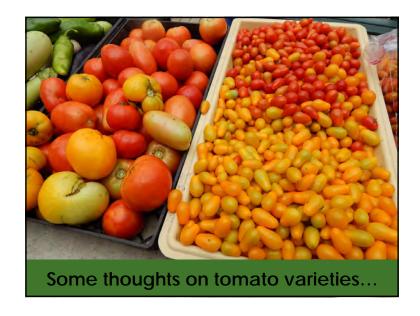
- An <u>heirloom</u> is a vegetable that is openpollinated and has been around for at least 50 years.
- Often have "stories"
- Can save seed
- May or may not have improved traits



Reasons to Select an Heirloom

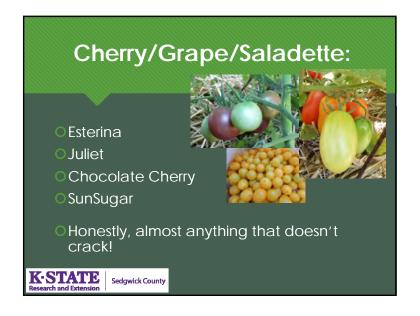
- Unique traits
- Flavor characteristics
- Quality values
- Ability to save seed





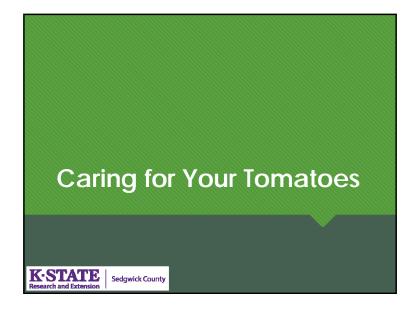


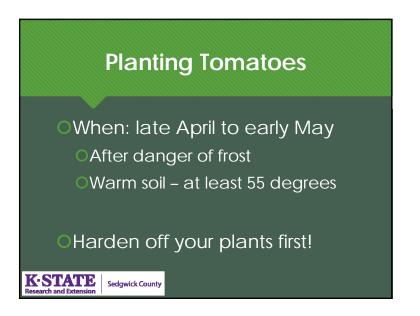






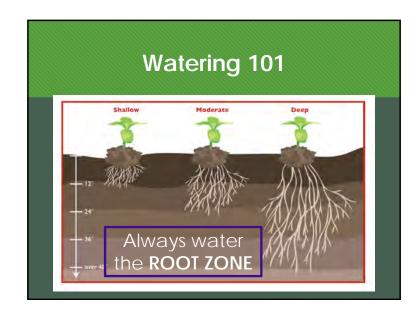


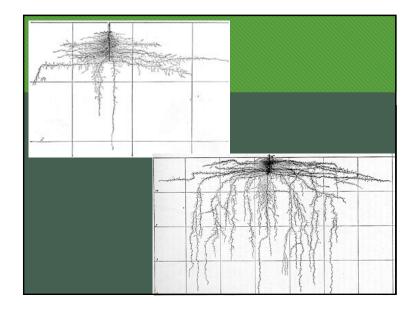


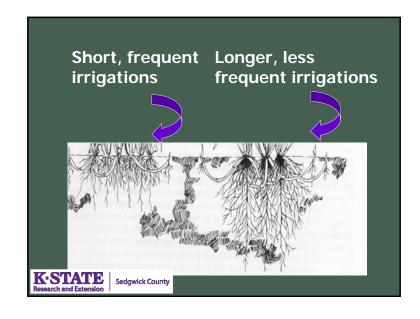


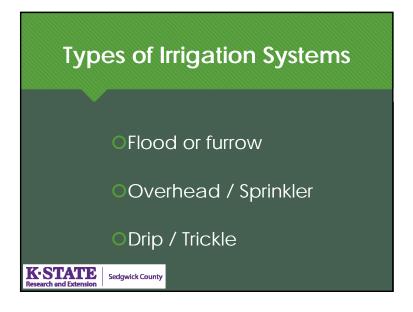


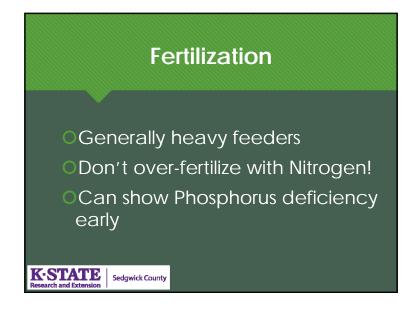










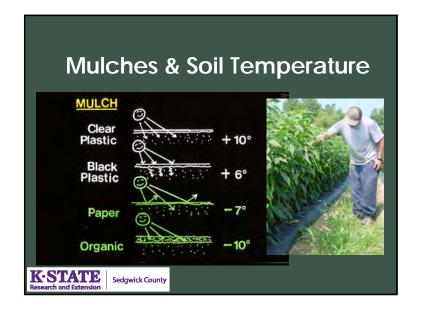












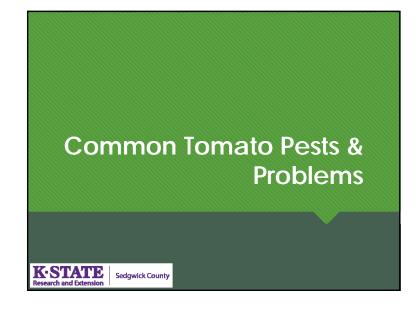






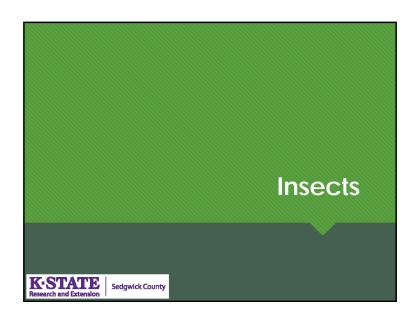


















Flea Beetles Tiny black beetles Very small holes in the leaves in the early spring Tomatoes usually outgrow damage Controlled with neem oil or permethrin.



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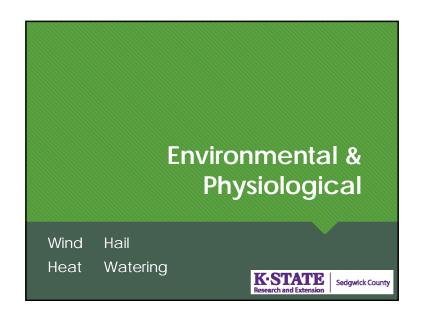


Early Blight

- ½" circular lesions on lower leaves
- Leaves yellow and die from the bottom upward
- Favored by wet, warm weather
- Caging or staking, mulching, and rotation will help prevent the disease.
- Preventative fungicides:

 Chlorothalonil or fixed coppers, Serenade?







Blossom End Rot

- Brown-black, leathery spots on fruit bottom.
- Prevent by proper watering practices
- Some varieties are very susceptible





Physiological Leaf Curl

- Leaves curl when the weather changes from cool and moist to hot and dry
- OThe plants will be fine in a few days.





Cracking

- OTomatoes in Kansas crack due to weather
- OHarvest tomatoes as soon as they start to color, then ripen indoors
- Some varieties are more crack resistant





2,4-D Herbicide Injury

- Leaves are cupped, thickened or leathery, and develop an uncharacteristic fan shape.
- O Plants will overcome moderate damage.
- Poor production is likely
- 2,4-D can spread on the wind for a few miles





Hot Weather Daytime temperatures are above 85-90 degrees Overnight temperatures above 75 degrees Prevents good pollination Gap in fruit production Sedgwick County Research and Extension





