



Land Preparation What is the issue?



 Soil needs to be prepared before seed are placed in the ground



Land Preparation Why is this important?



 Without proper soil conditions, planter operation and seed placement may be inadequate and cause poor plant populations







Land Preparation When is this handled?



- Ahead of planting, but timing varies.
 - Can be immediately prior to planting
 - May be several weeks or months ahead of planting for some operations.
- As weather permits
 - Too early settling/crusting and/or weed problems
 - Termination of cover crops need to be considered

Land Preparation How is it managed?



- Conventional Tillage
 - Deep soil inversion
 - can warm soil quickly, provide good seed-soil contact, bury pathogens and weed seed, disrupt insect cycles.





Land Preparation How is it managed?



Strip-Till

- Conservation technique to reduce erosion and minimize hardpan development
- Advantages:
 - Conserve soil moisture during growing season (dry years)
 - Reduced equipment inventory and overall power demand
 - Reduces incidence of TSWV and leaf spot
 - Fewer passes over field, less time to prepare

Land Preparation How is it managed?



- Strip-Till
 - Disadvantages:
 - Deplete soil moisture at time of planting
 - Increased chemical control
 - Increases threat of white mold, burrower bug
 - Digging more difficult since planted flat instead of raised bed

Planting What is the issue?



- Optimizing conditions
 - Timing (soil temps and moisture, disease incidence, thrips flights, etc.)
 - Selecting tools best suited for the conditions
 - certain pesticides may be worthwhile at one timing, but useless if applied at a different part of planting season







Planting What is the issue?



Seed selection

- Farmers can save and plant their own seed, within laws governing certain varieties (i.e. patents)
- Some contracts may specify a certain type of seed (e.g. High-Oleic vs Normal Acid Chemistry)
- Certain varieties have characteristics that may make them more suitable for specific conditions or management scenarios

Planting Why is this important?



 Improper planting techniques can result in poor plant stand and ultimately doom the crop







Planting When is this handled?



•Several weeks to months before planting for management decisions, ordering seed, etc.

- Planting usually mid-April through mid-June,
 but majority is in the first 3 weeks of May
 - Keeping an eye on soil conditions and weather forecast is critical

Planting How is it managed?



- Planter and tractor settings
 - Check for proper function and calibration

 seed depth, gearing for seed rate, application implements (liquid in-furrows, metering hoppers, row cleaners, press wheels, etc.)



