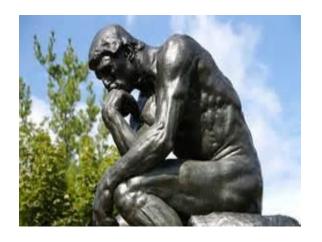


Conventional weed management focuses almost exclusively on using herbicides to kill weeds at the seedling stage. In contrast, weed management in organic farming includes direct control tactics to limit seedling survival, but also more subtle tactics that affect weed germination, reproduction, and seed and vegetative propagule survival and dispersal.

Every operation on a field must have a dual purpose:

fertility management and weed management







"We made \$30,000 more last year and it only cost us \$60,000."









Rotations	(biological)
Cover Crops (Soil Cover)	(biological)
Weed Seed Predation	(biological)
Split Tillage	(mechanical)
Tine Weeding	(mechanical)
Rotary Hoeing	(mechanical)
Cultivation Hand Weeding	(mechanical) (mechanical)
Compaction	(biological)
Seed Bed Temperatures	(biological)















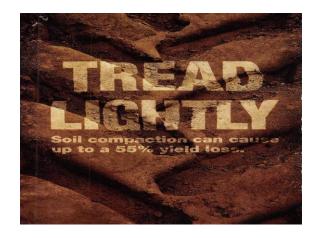
The Weed Management Tool Kit for Organic Farming

Weed management has three critical concerns.

The first and most immediate concern is <u>limiting the amount of damage</u> weeds inflict on an associated crop through competition for resources, release of allelopathic chemicals, and physical interference with maintenance and harvest operations.

The second, longer-range concern is minimizing the size of future weed populations by reducing the production and survival of new weed seeds and vegetative propagules.

The final concern is preventing the introduction of new, more problematic weed species into an existing weed flora through monitoring, sanitation, and targeted eradication efforts.





Soil compaction caused by field traffic and machinery increases with high soil moisture because soil moisture works as a lubricant between soil particles under heavy pressure. The most effective way to minimize soil compaction is to avoid field operations when soil moisture is at or near field capacity.

Instinct would lead you to believe that you should till as deep as possible to shatter any smeared soil or compacted layers that were created. However, your soil's best natural defense against compaction is soil structure. The deeper you till and the more aggressive your operations, the more structure you will damage, leaving your soil susceptible to further compaction.









We need a residue blanket to intersect rain. If we don't have a good cover, beating rain can make a soil crust. Fall tillage also leaves soil exposed all winter and spring to wind and water



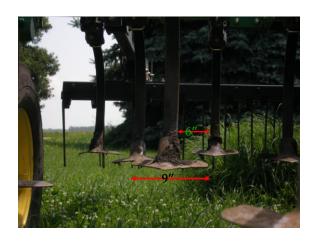
















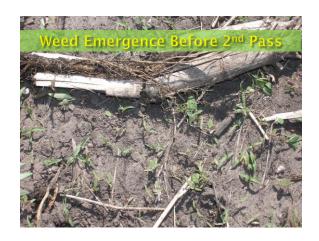




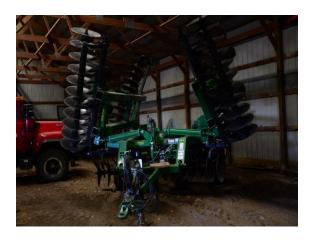








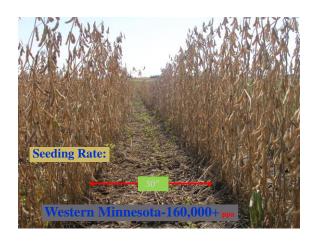
















I am quite certain that damage to the corn tips (spikes) as they are near to emerge or emerging is not a big deal and that there is little to no yield reduction.

My opinion is that the yield effect from the broken tips is little to nothing. If soil conditions are good for tine weeding, then I think I would be tempted to just do it, even if the tips of some plants were being broken off. It shouldn't hurt the growing points at all

This is supported by the organic weed management guide chapter, which says that PRE and POST mechanical weed control can be performed in corn up to and through emergence (for both rotary hoeing and harrowing)... see the tables in...

http://www.organicriskmanagement.umn.edu/weed_mgmt6.html



































