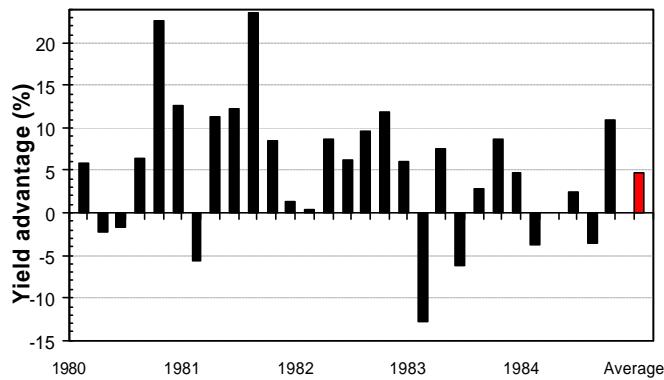


- ### "Slow Growth Syndrome" In No-Till Corn
- Cool soil temperature
 - Poor seedling root growth due to:
 - ✓ "Side-wall" compaction
 - ✓ Wet soils
 - ✓ Reduced nutrient mineralization
 - ✓ Residue toxicity
 - Influenced by soil texture, crop rotation, hybrid maturity, and planting date (Carter, 1992)
- Extension**
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Yield advantage of moldboard and chisel plow over no-till (1980-1984, n= 30 trials)



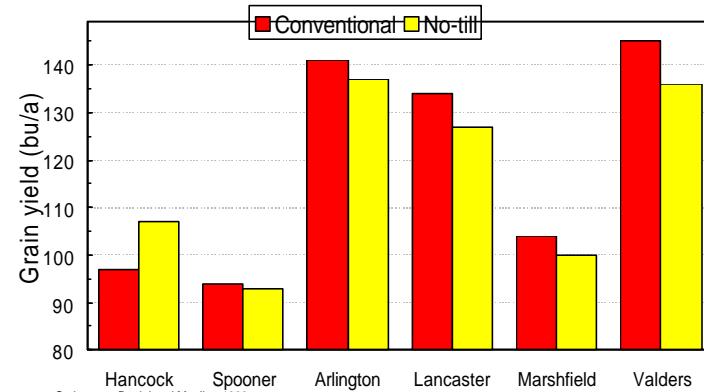
source: Springman, Daniel and Mueller, 1986

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Effect of tillage system on corn yields in Wisconsin (1978-1984)



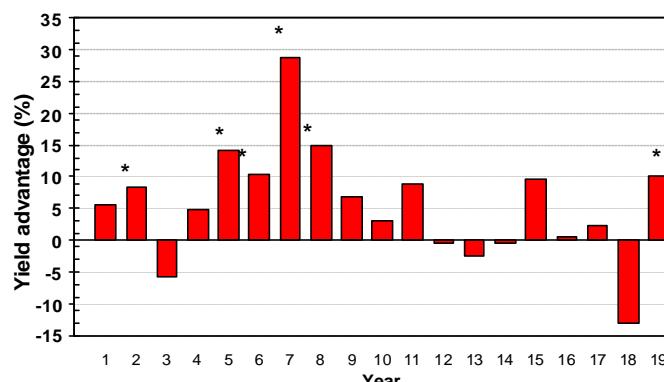
source: Springman, Daniel and Mueller, 1986

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Yield advantage of chisel plow tillage over no-till 1986-2004 ("Long" Rotation trial, n= 7448 plots)

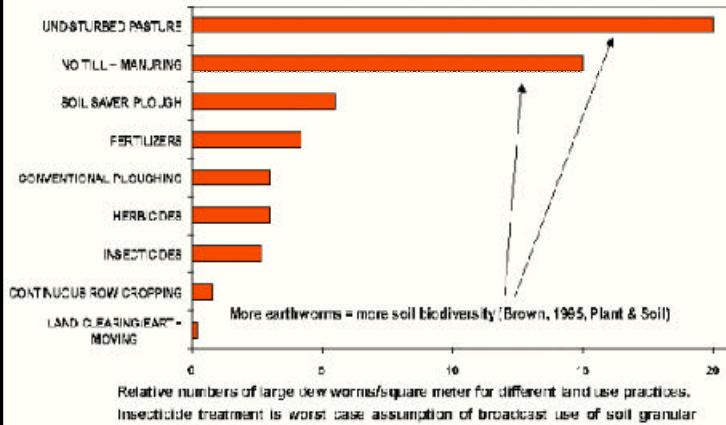


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Comparative Effects of Agronomic Treatments on Earthworms



insecticides.

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