

Crop residue removal and tillage

s.n - Effects of residue removal and tillage on greenhouse gas emissions in continuous corn systems as simulated with RZWQM2



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Soil organic matter in cropping systems

First, the blades were dull. At current yields observed in this study area, only continuous corn with no-till may generate enough residue to maintain or increase SOM. These nutrients will be permanently lost from the soil system nutrients pool due to lack of replenishment from crop residue and they have to be added to maintain soil productivity.

Effects of Crop Residue Management and Tillage on Weed Control and Sugarcane Production

These soils are taxonomically described as a Histosol Figure 1. This material helps the soil create and maintain large pore spaces and channels that allow water to infiltrate and drain and small pore spaces that hold on to water.

Tillage, nitrogen and crop residue effects on crop yield, nutrient uptake, soil quality, and greenhouse gas emissions

This re-distribution and homogenization of the soil organic matter diminishes its benefits and sets the clock back on soil organic matter accumulation. Also, research shows corn yields, after five to seven years of three conventional tillage systems, strip-till and no-till, were the same. While crop residue grazing usually results in little nutrient or organic material removal, mechanical harvest removes nutrients and organic material critical to maintaining soil productivity.

Tillage options to handle heavy crop residue reviewed

A strong house A well-aggregated soil provides many housing options for microbes, while an aggressively tilled soil breaks apart soil pores and aggregates. This figure also illustrates why the hilltops dry up much faster than the low-lying areas of the field.

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