Crop residue removal and tillage

s.n - The future of residue management

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Simulated impacts of crop residue removal and tillage on soil organic matter maintenance — Experts@Minnesota

When calculating the total cost of removing residue, keep all of the expenses in mind. Crop residue removal affects soil nutrient availability, soil organic matter, wind and water erosion potential, soil water availability, yield and economics. Plant biomass and productivity of prairie, savanna, oakwood, and maize field ecosystems in central Minnesota.

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

In particular, the long residue pieces will likely create challenges with row cleaners and cause some down time during the spring planting process. When calculating the cost of removing residue, consider the fertilizer costs for replacing the nutrients removed with the residue. At current yields observed in this study area, only continuous corn with no-till may generate enough residue to maintain or increase SOM.

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

In continuous corn with moldboard plowing, no residue harvest is recommended when grain yield is 150 bushels per acre or less, but you could harvest three large round bales per acre when yields reach 250 bushels per acre.

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The mindset of using tillage as an answer to any soil and production challenge needs to be reconsidered.

The future of residue management

Amount of N uptake and C removed in wheat and canola generally increased with N rate, but tillage and straw management had no consistent effect. Where soil erosion by wind is the primary concern, any system that maintains at least 1000 pounds per acre of flat, small grain residue equivalent on the surface throughout the critical wind erosion period.

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

The nature and properties of soils 13th ed. Combine headers contribute to crop residue management by sizing and distributing corn biomass. It is clear that soil organic matter is vitally important for promoting soil health.

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