

# 2007 CMDC

## *Wilhelm*

### **Use & Copyright**

The materials in this document were developed by and for use by University of Nebraska–Lincoln Extension in the Institute of Agriculture and Natural Resources. The materials are copyrighted by the Board of Regents of the University of Nebraska–Lincoln on behalf of the University of Nebraska–Lincoln Extension. All rights are reserved.

Copies may be printed for individual personal use; however, these materials can not be republished in print, on another Web site or used commercially without prior written permission. To seek permission to print a publication for educational use, please email us at [dpittman1@unl.edu](mailto:dpittman1@unl.edu).

### **Disclaimer**

Reference to commercial products or trade names in these publications is made with the understanding that no discrimination is intended and no endorsement by University of Nebraska-Lincoln Extension is implied.

## Considerations

- **Soil erosion/runoff**
- **Soil temperature**
- **Soil water**
- **Plant nutrition**
  - Removal of nutrients
  - Nutrient availability
- **Compaction**
- **Soil organic carbon (SOC)**

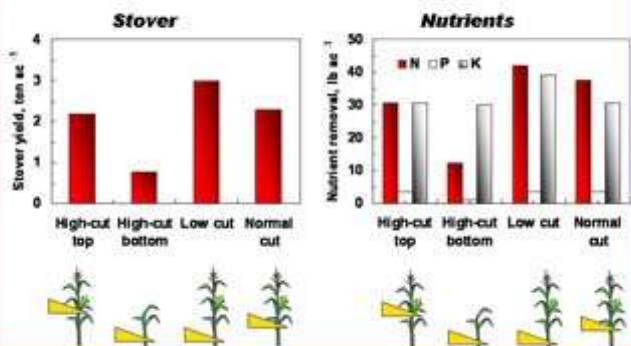
07cmdc-cropresidueremoval001

## Nutrient value

Element	Conc. in stover %	Cost (elemental basis) \$ lb <sup>-1</sup>	Cost (oxide basis) \$ lb <sup>-1</sup>	Value of nutrient in stover \$ ton <sup>-1</sup>
N	0.800	\$ 0.50	\$ 0.50	\$ 8.00
P / P <sub>2</sub> O <sub>5</sub>	0.079	\$ 0.96	\$ 0.42	\$ 1.52
K / K <sub>2</sub> O	0.674	\$ 0.17	\$ 0.14	\$ 2.29
<b>Total</b>				<b>\$ 11.81</b>

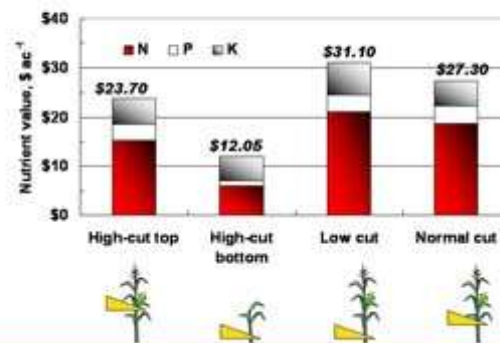
07cmdc-cropresidueremoval002

## Stover and nutrients removed

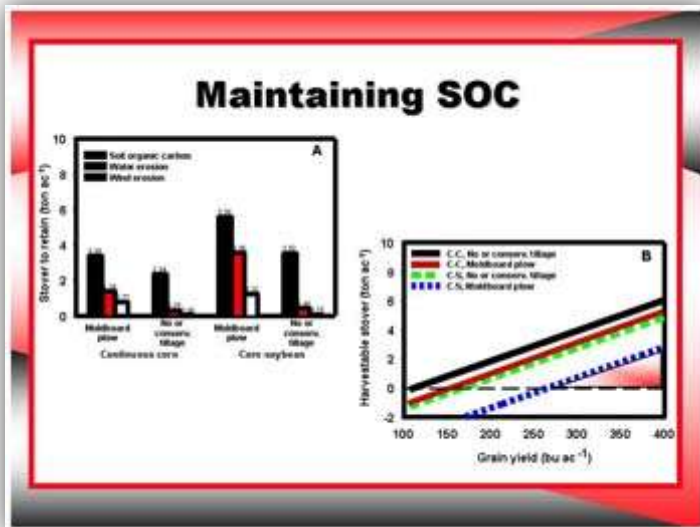


07cmdc-cropresidueremoval003

## Value of nutrients removed in stover



07cmdc-cropresidueremoval004



07cmdc-cropresidueremoval005