

**Table S1.** Total organic carbon content (g kg<sup>-1</sup>) at 0-10 and 10-30 cm depths.

<b>Year</b>	<b>Depth</b>	<b>NTS7</b>	<b>NTS</b>	<b>CTS</b>	<b>CTF</b>
<b>2011</b>	<b>0-10 cm</b>	16.4bA	8.59aB	8.50aB	8.90aB
	<b>10-30 cm</b>	9.83bB	5.47aB	5.37aB	5.57aB
<b>2012</b>	<b>0-10 cm</b>	17.2bA	6.96aA	6.74aA	6.46aA
	<b>10-30 cm</b>	7.50bA	4.20aA	3.96aA	4.01aA
<b>2013</b>	<b>0-10 cm</b>	17.7bA	10.3aC	9.50aC	9.11aB
	<b>10-30 cm</b>	7.92bA	4.87aB	5.33aB	6.55aC
<b>ANOVA</b>					
		<b>Sig.</b>		<b>Sig.</b>	
<b>Y</b>	<b>0-10 cm</b>	**	<b>10-30 cm</b>	**	
<b>T</b>	<b>0-10 cm</b>	***	<b>10-30 cm</b>	***	
<b>Y*T</b>	<b>0-10 cm</b>	NS	<b>10-30 cm</b>	NS	

NTS7: long-term aerobic with no-tillage and sprinkler irrigation; NTS: aerobic with no-tillage and sprinkler irrigation; CTS: aerobic with conventional tillage and sprinkler irrigation; CTF: anaerobic with conventional tillage and flooding. ANOVA factors are **Y**: Year; **T**: Treatment; **Y\*T**: Interaction Year\*Treatment; \*\*, and \*\*\* significant at  $\alpha$  levels of 0.01, and 0.001, respectively; NS: not significant. Different letters show significant differences ( $p < 0.05$ ) between treatments in the same year (lower case letters) and between years within the same treatment (upper case letters).