

Table 1: Soil Measurements and their level of significance under tillage and residue effects.

	<b>Tillage Effect</b>	<b>Residue Effect</b>
<b>Physical Measurements</b>		
Aggregate stability (WSA)	***	ns
Bulk Density ( $\rho_b$ )	***	*
Micro-penetration Resistance (within soil cores)	ns	ns
Saturated Hydraulic Conductivity	ns	ns
Macro-porosity (large pores)	ns	ns
Meso-porosity (medium pores)	ns	ns
Available Water Capacity (AWC)	***	**
Field Water Infiltration	ns	ns
<b>Chemical Measurements</b>		
Nitrate Nitrogen ( $\text{NO}_3\text{-N}$ )	*	ns
Phosphorus	ns	ns
Potassium	ns	****
Magnesium	**	***
Calcium	ns	ns
Iron	ns	ns
Aluminum	**	ns
Manganese	**	ns
Zinc (Zn)	**	ns
pH	****	ns
<b>Biological Measurements</b>		
Organic Matter (OM)	****	**
Parasitic Nematodes	****	ns
Beneficial Nematodes	ns	ns
Decomposition Rate	**	**
Potential Mineralizable Nitrogen (PMN)	*	ns
Easily Extractable Glomalin	*	**
Total Glomalin (TG)	***	**
<b>Total number of significant indicators</b>	<b>15</b>	<b>8</b>

Significant at : \*  $p = 0.10$ , \*\*  $p = 0.05$ , \*\*\*  $p = 0.01$ , \*\*\*\*  $p = 0.001$ , ns = not significant  
( the more the asterisk, the higher the strength of significance)