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ERRATUM

Erratum to: Long-term tillage, straw and N rate effects on quantity and quality of organic C and N in a Gray Luvisol soil

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Relationships between soil organic C and N fractions, and between crop residue C input and soil organic C or N fractions

Under above subheading, the first sentence in the second paragraph should read as "The cumulative crop residue C inputs for the $ZTS_{Rem}0$, $ZTS_{Ret}0$, $ZTS_{Ret}50$, $ZTS_{Ret}100$, $CTS_{Rem}0$, $CTS_{Ret}0$, $CTS_{Ret}50$ and $CTS_{Ret}100$, respectively, were 2.822, 10.491, 26.886, 27.899, 3.198, 11.674, 29.056 and 32.468 Mg C ha^{-1} for the growing seasons from 1980 to 1998 (19 years), and 4.379, 17.550, 42.361, 43.949, 5.221, 19.545, 44.960 and 51.891 Mg C ha^{-1} from 1980 to 2006 (27 years)".

In Table 8, the correlation coefficients between crop residue C input and soil organic C or N fractions for the period 1980–1998 should read as 0.824*, 0.847**, 0.876**, 0.915**, 0.808*, 0.838*, 0.435^{ns}, 0.778* and 0.590^{ns}, respectively, for TOC, TON, LFOC, LFON, MOM-C, MOM-N, MB-C, C_{min} and N_{min}. The corresponding values for the period 1980–2006 should read as 0.845**, 0.864**, 0.772* and 0.741*, respectively, for TOC, TON, LFOC and LFON.

Table 9 should read as follows:

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Table 9 Linear regressions for relationships between crop residue or crop residue C input from 1980 to 1998 or 2006 growing seasons and soil organic C or N (TOC, TON, LFOC, LFON, MOM-C, MOM-N, MB-C, mineralizable C [C_{min}] and mineralizable N [N_{min}]) stored in soil sampled in autumn 1998 and in spring 2007 at Breton, Alberta, Canada (Gray Luvisol soil, experiment established in autumn, 1979)

Crop parameter (X)	Soil C or N parameter (Y)	Linear regression[a] (Y = a + bX)	R^2
1980–1998			
Crop residue C input	TOC	Y = 24.37 + 0.3429X	0.680**
	TON	Y = 2.472 + 0.0293X	0.718**
	LFOC	Y = 540.8 + 25.569X	0.767**
	LFON	Y = 21.35 + 0.9980X	0.837**
	MOM-C	Y = 249.1 + 11.614X	0.654**
	MOM-N	Y = 8.681 + 0.4592X	0.702**
	MB-C	Y = 948.5 + 2.7398X	0.189^{ns}
	C_{min}	Y = 271.2 + 4.1506X	0.605*
	N_{min}	Y = 19.74 + 0.4005X	0.348^{ns}
1980–2006			
Crop residue C input	TOC	Y = 19.84 + 0.2186X	0.714**
	TON	Y = 2.380 + 0.0162X	0.747**
	LFOC	Y = 684.21 + 20.86X	0.596*
	LFON	Y = 19.61 + 0.8689X	0.550*

[a] Y = Soil organic C or N fraction (TOC and TON as Mg C or N ha^{-1}, and LFOC, LFON, MOM-C, MOM-N, MB-C, C_{min} and N_{min} as kg C or N ha^{-1}; a = Intercept on Y, origin of the line; b = Regression coefficient of Y on X, slope of line; X = Crop residue C input (Mg ha^{-1})

*, ** and ns refer to significant treatment effects in ANOVA at $P \leq 0.05$, $P \leq 0.01$ and not significant, respectively