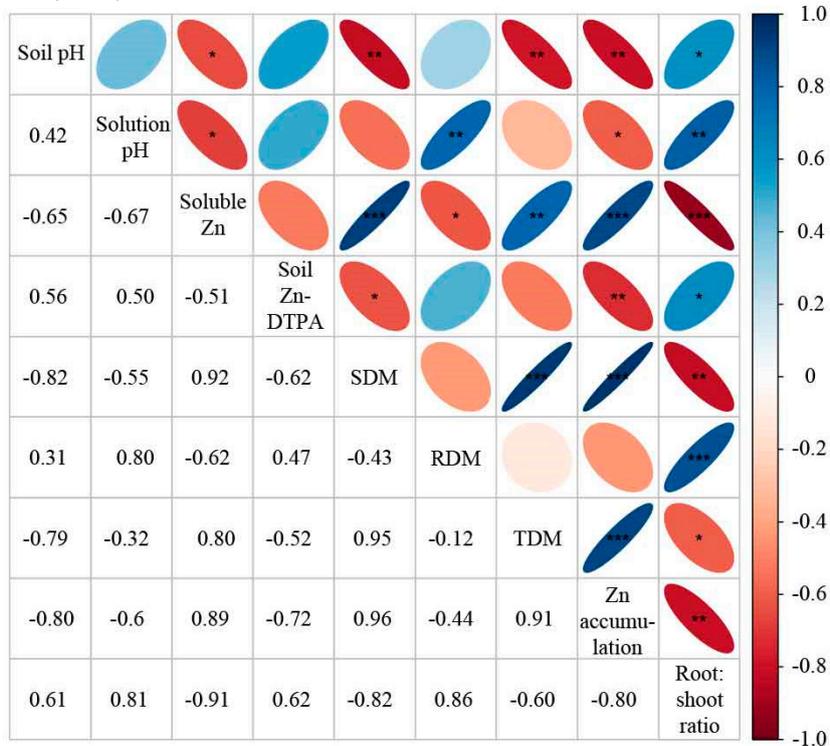


Supplementary material

Supplementary material 1. The Pearson's linear correlation matrix for soil attributes and maize traits. * and ** significant relationship of soil and plant attributes at $p < 0.05$ and $p < 0.01$, respectively; blue ellipse with right sloping top: positive relationship; red ellipse with left sloping top: negative correlation. SDM, RDM and TDM: shoot, root and total dry matter production, respectively; R:S ratio: ratio of shoot over (SDM) over root dry matter (RDM); Zn accumulation: Zn accumulated in maize shoots.



Supplementary material 2. The Pearson's linear correlation matrix for soil attributes and brachiaria traits. * and ** significant relationships between soil and plant traits at $p < 0.05$ and $p < 0.01$, respectively; blue ellipse with right sloping top: positive correlation; red ellipse with left sloping top: negative correlation. SDM, RDM and TDM: brachiaria shoot, root and total dry matter production, respectively; R:S ratio: ratio of shoot (SDM) over root dry matter (RDM); Zn accumulation: Zn accumulated in brachiaria shoots.

