

Figure legends

FIGURE 1 Seed production of *Stipa krylovii* for different treatments combinations of nitrogen (N) and phosphorus (P) addition in a temperate steppe of Inner Mongolia, China. Different letters in the insert panels indicate significant differences at α level of 0.05. Abbreviations: C, no N and P added; P5, low P addition ($5 \text{ g P m}^{-2} \text{ yr}^{-1}$); P10, high P addition ($10 \text{ g P m}^{-2} \text{ yr}^{-1}$); N10, low N addition ($10 \text{ g N m}^{-2} \text{ yr}^{-1}$); N40, high N addition ($40 \text{ g N m}^{-2} \text{ yr}^{-1}$).

FIGURE 2 Seed number per inflorescence and inflorescence number of *Stipa krylovii* at different N and P addition treatment levels in a temperate steppe of Inner Mongolia, China. Different letters in the panel indicate significant differences at the α level of 0.05. See Figure 1 for the abbreviations.

FIGURE 3 Tiller number, height, and density of *Stipa krylovii* at different N and P addition treatment levels in a temperate steppe of Inner Mongolia, China. Different letters in the panel indicate significant differences at α level 0.05. See Figure 1 for the abbreviations.

FIGURE 4 Structural equation model (SEM) analysis of causal relationships of seed production to changes in tiller number, plant density, plant height, seed number per inflorescence, and inflorescence number of *Stipa krylovii* in a temperate steppe of Inner Mongolia, China. All arrows represent significant relationships ($P < 0.05$).

Results of the model fitting: $\chi^2 = 24.47$, $P = 0.058$, d.f. = 15, RMSEA = 0.134 (Note that high P -values associated with χ^2 tests indicate good model fit to the data). The R^2 values associated with response variables indicate the proportion of variation explained by relationships with other variables. Dashed and solid arrows indicate negative and positive effects, respectively. The strength of a given relationship is indicated by the width of its arrow.

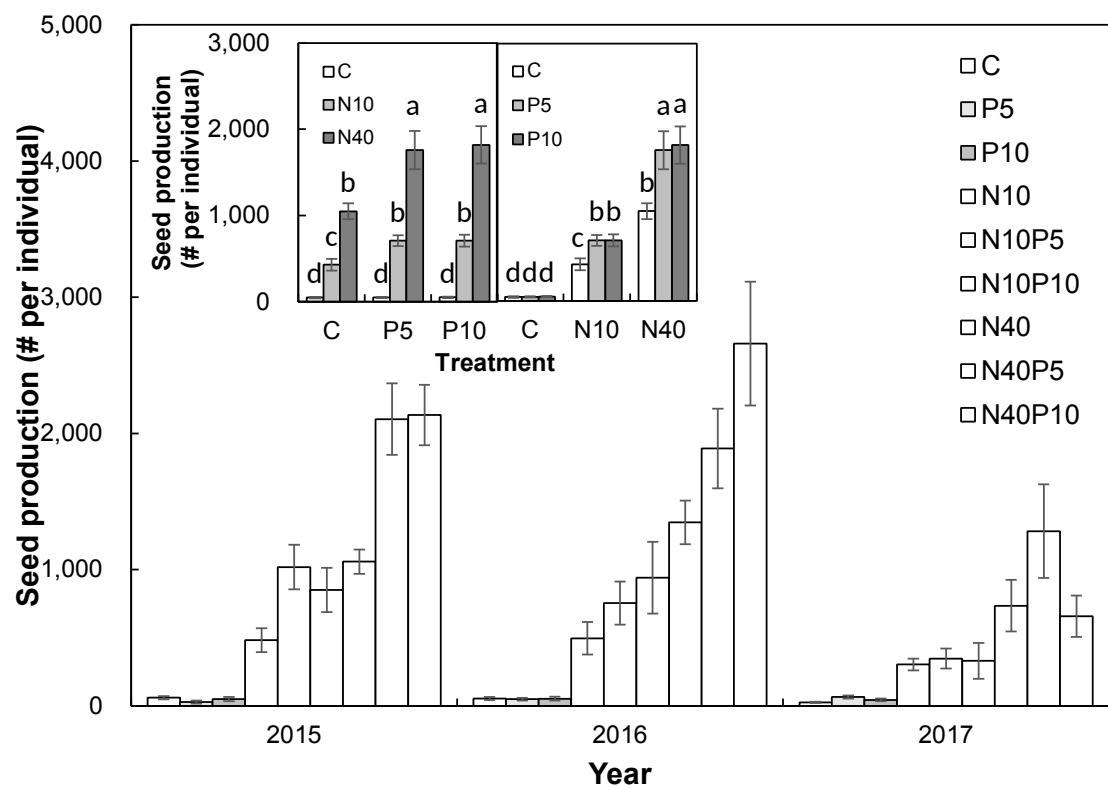


FIGURE 1

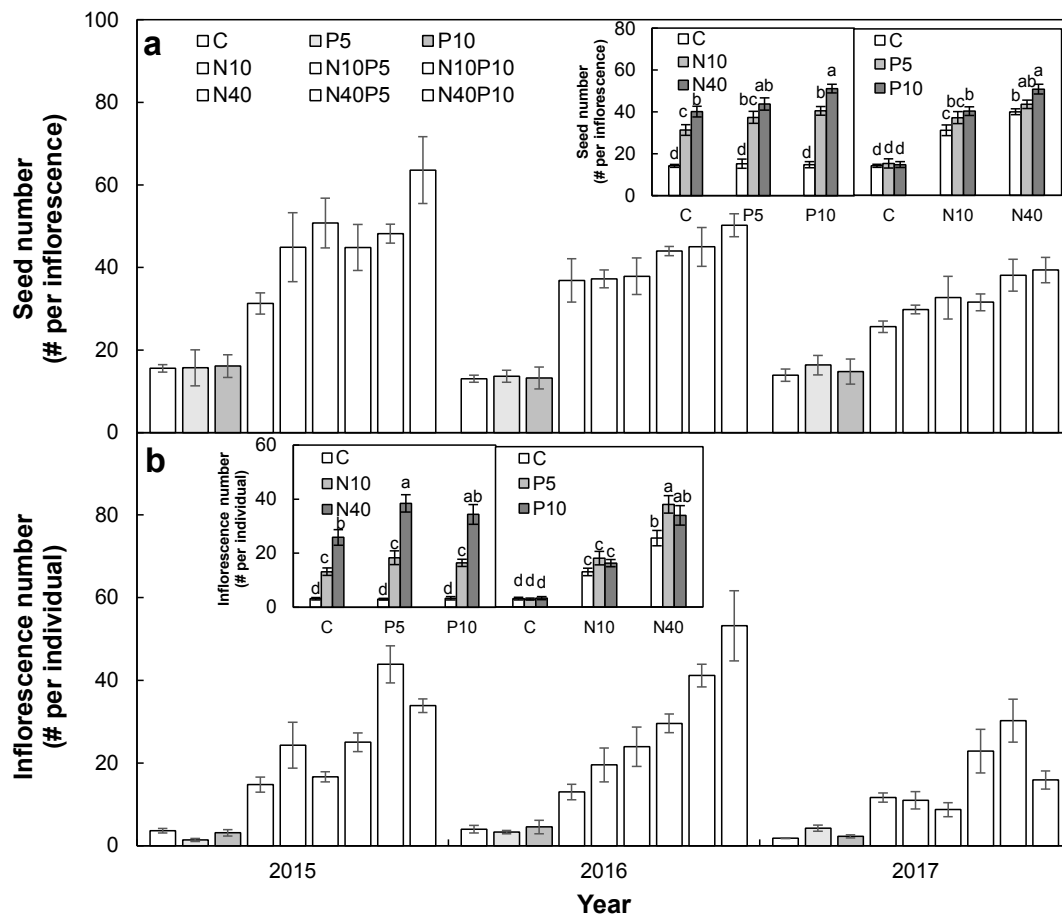


FIGURE 2

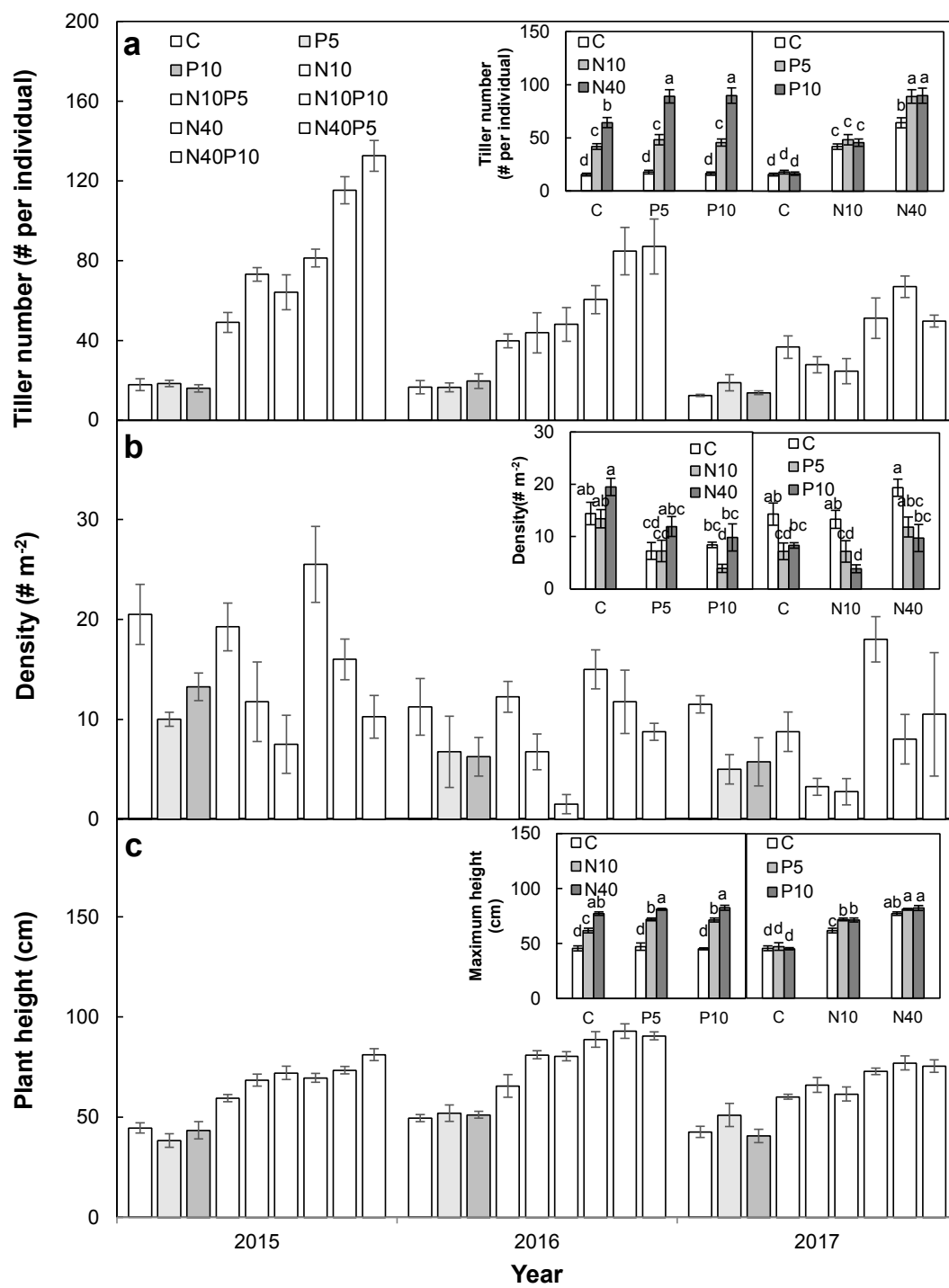


FIGURE 3

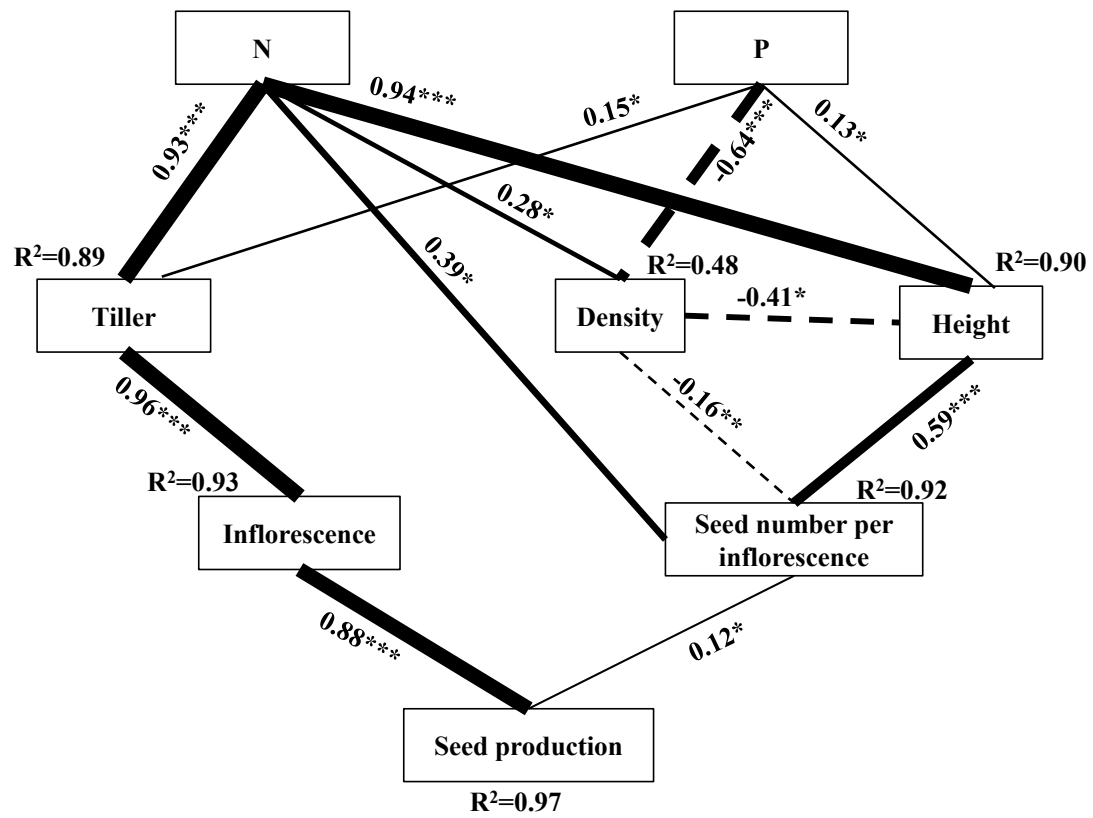


FIGURE 4