



Article

Annual Weeds Suppression and Oat Forage Yield Responses to Crop Density Management in an Oat-Cultivated Grassland: A Case Study in Eastern China

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Abstract: Although weeds can be inhibited by high planting densities, canopy shading, elemental balance and soil microbial recruitment are not yet adequately considered when measuring competitive effects on weed control. The effects of oat (*Avena sativa*) planting density (60 to 600 plants m⁻²) on the biomass and shoot element balance of oat and weeds were evaluated in a field experiment. The shift in the microbial community of the dominant weed species was examined in a pot experiment by growing the weed alone and in competition with 360 oat plants m⁻² (recommended planting density) under greenhouse conditions. Increasing oat planting density beyond 360 plants m⁻² did not improve oat forage yield or weed suppression. Compared to 60 plants m⁻², the biomass of broadleaf and grass weeds decreased by 112% and 111%, respectively, at a density of 360 plants m⁻², while oat forage biomass increased by 60% and leaf area index by 24%. The improved canopy properties suppressed competing weeds through increased shading. Typically, the C:N and C:P ratios of shoots of *Echinochloa crus-galli* and *Digitalis sanguinalis* were higher than those of *Portulaca oleracea* and *Chenopodium album*. At high planting densities, *E. crus-galli* and *D. sanguinalis* exhibited high P contents and low N:P ratios, suggesting a limited supply of N nutrients for growth. Soil bacterial community assay showed that the composition of microbial communities of the two grass weeds were shaped by the presence of oat competition, which also considerably depleted several important functional microbes associated with nutrient cycling in the weeds' rhizosphere. These results highlight that increased crop density significantly improves the crop competitive advantage over weeds through increased shading, reduced elemental balance, and beneficial microorganisms of weeds, thereby reducing the need for herbicides or physical weed control in oat cropping system.

Keywords: interspecific competition; shading stress; competitive capacity; stoichiometry; soil bacterial community; weed suppression



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1. Introduction

Agricultural weed infestation has been estimated to cause severe yield losses globally [1]. Weeds compete with crops for solar radiation, nutrients, water, and other resources, and this subsequently reduces crop productivity. Therefore, weeds greatly threaten food security [2]. Herbicide resistance in weeds has evolved as a result of the current conventional intense cropping system's heavy reliance on herbicides, which has also resulted in environmental pollution [3]. However, the competitive strategies employed by crop plants have received little attention. Therefore, as supplements or substitutes for chemical

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