

## 草地

农业农牧交错带天然草地植物种枯落物对小麦幼苗生长的影响

袁 航, 侯扶江

### 摘要:

研究了黄土高原农牧交错带天然草地建群植物长芒草*Stipa bungeana*、达乌里胡枝子*Lespedeza davurica*和茵陈蒿*Artemisia capillaris*枯落物浸提液对小麦*Triticum aestivum*幼苗生长指标(出苗率、株高、地上与地下干质量)的影响。结果表明,长芒草枯落物对小麦出苗率和幼苗地上和根系干质量及地上干质量/地下干质量均无显著影响( $P>0.05$ ),仅在处理后第2、8、12和16天增加小麦幼苗株高( $P<0.05$ )。胡枝子和茵陈蒿枯落物对小麦出苗率和各观测期小麦幼苗株高及根系干质量影响不显著( $P>0.05$ );但二者均对小麦幼苗根系生长影响显著( $P<0.05$ ),通过小麦根系生长的增加,使其地上干质量/地下干质量( $P<0.05$ )降低。可见,小麦幼苗生长因枯落物植物种不同而异,其对胡枝子和茵陈蒿枯落物的反应比长芒草的更敏感。

关键词: 草地; 枯落物; 小麦; 生长特性

Effects of the litter of the dominant species on the seedlings growth of wheat in native grassland of farming pastoral ecotone

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### Abstract:

The effects of the litter of *Stipa bungeana*, *Lespedeza davurica* and *Artemisia capillaris* on the growth characteristics of wheat, including of the rate of seeding emergence, seedling height, and the dry matter (DM) weight in shoot and roots in native grassland of farming pastoral ecotone were studied in this paper. The results showed that, the litter of *S. bungeana* had no significant effect on the rate of seeding emergence, root weight and the weight ratio of aboveground to underground of wheat ( $P>0.05$ ), whereas it had a significant effect on seeding height in the 2nd, 8th, 12th and 16th after the litter deposition ( $P<0.05$ ). Similarly, *L. davurica* and *A. capillaris* litter had no significant effects on the rate of seeding emergence, seeding height and root weight of wheat ( $P>0.05$ ), whereas they had significant effect on the root growth of wheat ( $P<0.05$ ), which would increase the root weight of wheat and decrease its weight ratio of aboveground to underground. Thus, the seeding growth of wheat was different among the different species litter, and was more sensitive to the response of the litter of *L. davurica* and *A. capillaris* than *S. bungeana*.

Keywords: Grassland litter wheat growth characteristics

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

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