

植物生产层

青海扁茎早熟禾冬眠无性系种群年龄结构特征

伍磊, 周青平, 刘文辉, 颜红波, 雷生春, 梁国玲

摘要:

通过对青海扁茎早熟禾(*Poa pratensis* var. *anceps* cv. Qinghai) 1年到6年栽培草地各构件龄级的统计分析得出, 冬眠芽各生长年限年龄结构分为0龄到4龄5个龄级, 均以0龄数量最高, 并逐龄递减, 冬眠苗和亲株分为1龄到4龄4个龄级, 均以1龄数量最高, 并逐龄递减。亲株冬眠构件数量以4年最高, 为 672.3 ± 37.74 , 冬眠苗和冬眠芽均以1年数量最高, 分别为 (191.8 ± 25.34) 和 (137.67 ± 28.97) 株。冬眠苗符合直线模型, 其表达式为 $S = -35.96t + 221.3$; 冬眠芽最符合的是生长曲线模型, 其表达式为 $S = e^{5.472 - 0.374t}$; 亲株的数量生长最符合二次曲线模型, 其表达式为 $S = -86.417t^2 + 547.455t - 279.752$ 。冬眠苗和冬眠芽的各龄级数量的曲线的乘幂曲线F值越高, 就越有可能是增长型龄级结构, 所以1年和2年为增长龄级结构, 3年和4年为稳定龄级结构, 5年和6年为衰退龄级结构。

关键词: 青海扁茎早熟禾 无性系 种群 年龄结构

Age structure features of cloning population hibernation of *Poa pratensis* var. *anceps* cv. Qinghai

WU Lei, ZHOU Qing ping, LIU Wen hui, YAN Hong bo, LEI Sheng chun, LIANG Guo ling

Abstract:

Characteristics of age structures of one to six year pasture of *Poa pratensis* var. *anceps* cv. Qinghai was studied in the experiment. The results indicated that age structures of hibernated buds were from 0 to 4 years old with 5 classes, while hibernated seedlings and parent strains had 4 classes from 1 to 4 years old. For the hibernated buds, the 0 years old number was the highest, but for the seedlings and parent strains the 1 years old number was the best. However, all of them were decreased when ages increased. The four year number of hibernation components of parent strain was the highest, for 672.3 ± 37.74 ; while the one year numbers of hibernated seedlings and buds were the highest, 191.8 ± 25.34 and 137.67 ± 28.97 respectively. Hibernated seedling age structure was fitted with a linear model, which was $S = -35.96t + 221.3$, while the hibernated bud was fitted with a growth curve, $S = e^{5.472 - 0.374t}$, and parent strain was followed a quadratic curve, $S = -86.417t^2 + 547.455t - 279.752$. When the each of age class number curve of hibernate seedlings and buds was fitted with a power curve, the higher the F value, the more likely growth type age class structure. In conclusion, 1 and 2 year pasture were growth age structure; 3 and 4 year were stable age structure; and 5 and 6 year were recession age structure.

Keywords: *Poa pratensis* var. *anceps* cv. Qinghai cloning population age structure

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