

STUDY OF THE INSTALLATION RATE OF SOME SPECIES AND MIXTURES FOR LAWNS

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Abstract

The evolution of society has led to an increase in aesthetic and functional requirements, which has transformed lawns into an essential element for enhancing everyday comfort. The considerable expansion of lawn-covered areas in recent decades reflects the reinterpretation of natural lawns in a modernized version, corresponding to current functional and aesthetic requirements. The purpose of this study is to monitor the growth rate of five mixtures and two species in pure lawn culture: a₁-Speedy Green (100% *Lolium perenne*); a₂- SuperSport (50% *Lolium perenne*+50% *Poa pratensis*); a₃-RPR Sport (50% *Lolium perenne* RPR+50% *Lolium perenne*); a₄-Bar Power RPR (30% *Lolium perenne* RPR+25% *Lolium perenne*+ 30% *Festuca rubra commutata*+15% *Festuca rubra*); a₅-Resilient Blue Lawn (25% *Lolium perenne* + 45% *Festuca trichophylla*, *Festuca rubra rubra*, *Festuca rubra commutata* + 30% *Poa pratensis*); a₆-Resilient Blue Sport (30% *Poa pratensis* with YJWM + 46% *Lolium perenne* + 24% *Lolium perenne* RPR); a₇- Turf Clover (100% *Trifolium repens*), under the conditions of the urban area of Iași. The observations were made visually and expressed with scores, according to the NTEP (National Turfgrass Evaluation Program) rating scale. Observations were made at intervals of 20, 25, 30, and 90 days after sowing, representing the ability of the species in the mixture or pure crops to cover the entire surface in the shortest possible time. According to the observations made to monitor the rate of establishment, the best germination was recorded in variant a₇-Turf Clover (100% *Trifolium repens*), with a score of 8 at 90 days after sowing, and the slowest germination was recorded in variant a₅-Resilient Blue Lawn (25% *Lolium perenne* + 45% *Festuca trichophylla*, *Festuca rubra rubra*, *Festuca rubra commutata* + 30% *Poa pratensis*) with an average score of 2.33 at 20 days after sowing.

Keywords: ornamental turf, installation rate, germination, NTEP, grass mixtures