

POLYCROSS PROGENY TEST OF LOTUS ULIGINOSUS

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SUMMARY

During April/79 to March/81, at EEA - UFRGS, Guaíba, RS, Brazil, two progeny tests were evaluated: I.34 progenies in mixture with annual ryegrass (*Lolium multiflorum* Lam.), and II.26 progenies and the tetraploid Maku cultivar in individual lines.

In test I., the progenies evaluation could not be done adequately, due to the unsatisfactory establishment. The 5% F-Test, was significant just for the ryegrass crude protein (CP) yield in the first year.

In test II., Maku cultivar differed significantly ($P < .05$) in initial number of plant/m, in relation to progenies 78-129; 78-147; 78-103; 78-118; in mean height growth rate in cm/week and mean height of plant in cm, Maku cultivar was significantly different (DUNCAN $P < .05$) from all the progenies. In relation to mean diameter growth rate in cm/week, mean rooting diameter in cm, average CP, in vitro digestible dry matter (IVDDM) and average DM yield in the 1st and 2nd no significant differences were detected (F-Test $P > .05$). The flowering beginning in days after seeding, the CP yield on the 1st cut, and total DM yield in $\text{kg} \cdot \text{ha}^{-1}$ were significantly different (Duncan, $P < .05$).

^{1/}M.Sc. Thesis in Agriculture (Fitotecnia) - Agricultural School - Federal University of Rio Grande do Sul, Porto Alegre (118p.) - October, 1981