

characteristics of forage plants and they may be added to maize (by means of chromosomes made up structurally of segments of *Euchlaena* and *Zea*): (1) prolificness, (2) endurance to drought due to their strongly developed radical system and (3) heterosis factors from F_1 vigor.

At the present time, the cytogenetics of inbred lines from this population is being studied.

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1. Behavior of inbred lines in Texas cytoplasm.

The behavior of 375 corn lines (selfed S8-S34) was studied in relation to cytoplasmic androsterility conditioned by Texas cytoplasm. This work was carried out at two different localities: Salto (Prov. Buenos Aires) for visual observations, and Llavallol (Prov. Buenos Aires) for visual and microscopic observations.

As a result of this study we made the following conclusions: 26 (6.9%) of the inbred lines showed 100% restoration in both localities; 70 (18.6%) of the lines showed no restoration in both localities; and 279 (74%) of the inbred lines showed an undetermined condition.

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