

**Identification of Stable Populations Derived By Various Population Improvement Schemes in Different Locations in Sunflower
(*Helianthus Annus L.*)**

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ABSTRACT

The present investigation was carried out at Regional Agricultural Research Station, Nandyal, Andhra Pradesh. The study was aimed at to find out stability of populations/characters over different locations and dates of sowing. The Morden open pollinated population was chosen for imposing population schemes like Mass selection, Bulk sib, half sib, full sib selection and selfed progeny selection schemes. In the present study environment was treated only in terms of its total effect over different locations in the same year or season and over different dates of sowing in the same location. The progenies derived through different selections i.e. mass selection, bulk selection, half-sib, full-sib, selfed progenies as well as Morden variety and MSFH-17 hybrids were enhanced over the five locations as well as over five different dates of sowing representative of late *Rabi* and early *summer* environments.

Key words : Improvement schemes, Populations derived, Stable, Sunflower.