

SOME ASPECTS OF THE INHERITANCE SEED OIL CONTENT IN SUNFLOWER

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A half diallel set of crosses involving six inbred lines were evaluated over two years. This study aims to try some contributions to elucidation of the main genetic aspects regarding the oil content in the seed to improving the methods of obtaining highly yielding, high quality hybrids. In the genetical conditioning of the oil content in sunflower seeds both the dominance and the genes additivity effects are implied, the dominance of the high content, being constantly noticed. A tendency of superdominance was noticed in 1985 and of partial dominance in 1986. The heritability coefficients, in narrow sense were of 0.57 and 0.51 while these in a broadsense of 0.90 and 0.78, respectively.

Five of the inbred lines in the diallel system contains different genes of the additive effects, while these effects were stable from year to year. As regards the dominance degree and order lines EI-8455 and VF-1721 remarked.