

4. The comparative yielding ability of sterile and fertile double crosses.

Twenty-six double crosses produced on sterile and fertile single crosses of the T type were tested for yield and maturity as shown by moisture content in the grain at harvest. Percent moisture averaged the same for both series. The yield was 102 bushels for the sterile and 100 for the fertile. This difference is not statistically significant. Seedsmen report higher yields of seed produced on sterile seed parents. This may be due to less injury to plants that are not detasseled. Seed produced in detasseled fields may also show a higher proportion of inbred plants as compared to seed from sterile seed parents. These factors are not involved in the trials reported here since all seed was produced on hand pollinated plants.

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