

Genetical studies (B) Cross-sterility factors in South American pop corn races:- Since we found cases of cross-sterility in pop corn of the type described earlier by Demerec, a test was planted out in 1953 including 20 South American races, as reported last year. Unfavorable conditions caused the loss of this experiment. It is being repeated this year with about 100 strains of different origin. We also obtained testers for the supergametophytic factor from Oliver Nelson, Purdue University.

The presence of such gametophyte factors, which impedes crossing in normally random mating populations, will require special explanations from the viewpoint of population genetics. It should be remembered that we reported earlier some exceptions in the behavior of pop corn after inbreeding, indicating a special case of population genetics.

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