

4. Blight Resistant Synthetics of Field Corn

For the 1953 season, S_1 , S_2 and S_3 cultures of maize resistant to *Helminthosporium turcicum* and *H. maydis* were divided on the bases of maturity into early, intermediate and late lots. Fifty-seed samples of each culture were mixed for isolation block planting. The late lot was grown in isolation by Dave Matthews, Eastern States Farmers' Exchange, at Feeding Hills, Massachusetts. The early and intermediate lots were grown side by side in an isolation block at State College, Pennsylvania.

From each open-pollinated lot two samples were taken: (a) 100 ft. of row and (b) selection among the better plants for root, stalk and ear characters. Small amounts of seed are available to interested workers. It is planned to carry the early and intermediate lots through a second open pollinated generation and to distribute the synthetics through the Foundation Seed Stocks Program.

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