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Charcoal-Rot of Maize, New to Iowa

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in late quartet stage and with ovules having little or no differentiation of the megasporocyte. Minor varietal differences occur.

IOWA STATE COLLEGE,
AMES, IOWA

CHARCOAL-ROT OF MAIZE, NEW TO IOWA

GEORGE SEMENIUK

The charcoal-rot of maize caused by *Sclerotium bataticola* Taub. was found near Ames, Iowa, during mid-August, 1941, on several prematurely dead stalks in a field of early planted corn. Greenhouse tests with the fungus produced seedling infection of maize with necrosis of the roots and mesocotyl.

BOTANY AND PLANT PATHOLOGY SECTION
IOWA AGRICULTURAL EXPERIMENT STATION
AMES, IOWA

HERITABLE CHARACTERS IN MAIZE: "ACCESSORY BLADE"

GEO. F. SPRAGUE AND J. E. SASS

A mutant character in maize brings about the formation of ridge and blade-like outgrowths on the surfaces of leaves. These accessory laminae, which are present on the partially developed leaves in the dormant embryo, arise by re-activation of vertical zones on the immature leaf. Each active zone is in effect a new marginal meristem which produces a blade-like emergence. The gene is known to be recessive, but its linkage has not yet been established.

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