

1942

## Heritable Characters in Maize: "Accessory Blade"

George F. Sprague  
*Iowa State College*

J. E. Sass  
*Iowa State College*

*Let us know how access to this document benefits you*

Copyright © Copyright 1942 by the Iowa Academy of Science, Inc.

Follow this and additional works at: <https://scholarworks.uni.edu/pias>

---

### Recommended Citation

Sprague, George F. and Sass, J. E. (1942) "Heritable Characters in Maize: "Accessory Blade", *Proceedings of the Iowa Academy of Science*, 49(1), 256-256.

Available at: <https://scholarworks.uni.edu/pias/vol49/iss1/117>

This Research is brought to you for free and open access by the Iowa Academy of Science at UNI ScholarWorks. It has been accepted for inclusion in Proceedings of the Iowa Academy of Science by an authorized editor of UNI ScholarWorks. For more information, please contact [scholarworks@uni.edu](mailto:scholarworks@uni.edu).

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.

IOWA STATE COLLEGE,  
AMES, IOWA