

1925

## The 1924 Outbreak of Brood A of White Grubs in Iowa

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### Recommended Citation

Jaques, H. E. (1925) "The 1924 Outbreak of Brood A of White Grubs in Iowa," *Proceedings of the Iowa Academy of Science*, 32(1), 423-424.

Available at: <https://scholarworks.uni.edu/pias/vol32/iss1/108>

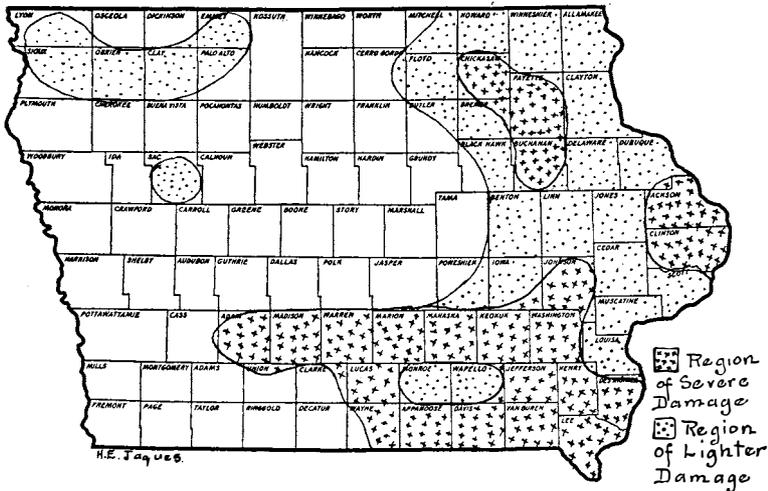
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## THE 1924 OUTBREAK OF BROOD A OF WHITE GRUBS IN IOWA

H. E. JAQUES

For a period of some twenty years, white grubs (*Phyllophaga spp.*) of brood A have been appearing each third year in numbers to do serious damage throughout northeastern Iowa. In 1921 their range was extended to include the east one-third of the southern half of the state as previously shown.<sup>1</sup> Their damage that year was severe throughout much of the newly invaded territory.

The heavy flights of May beetles, the adults of these grubs, which appeared in the spring of 1923 indicated serious trouble from the grubs again in 1924. The appended map which was

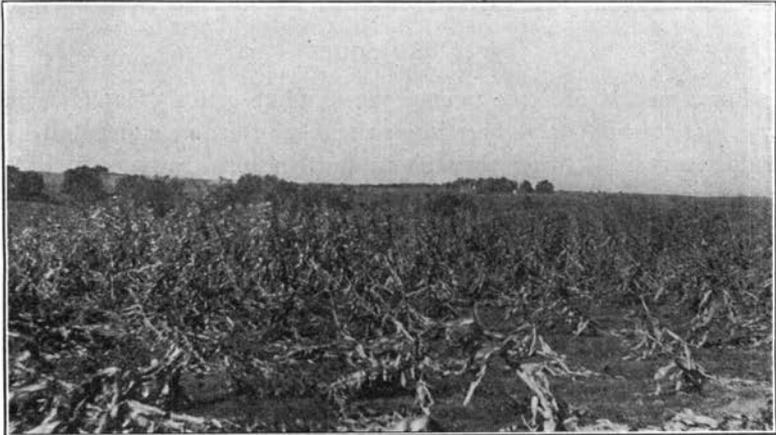


White Grubs in Iowa

made possible through the generous coöperation of Dr. Carl J. Drake, State Entomologist, and Fred D. Butcher, Extension Entomologist, many of the county agriculture agents of the state, farmers in the infested areas and others, shows the regions in which the grubs operated. Comparing their work in 1924 with that of the preceding brood in 1921, it is seen that their damage in

<sup>1</sup> Proceedings Iowa Academy of Science, Vol. XXIX, page 163.

northern Iowa seems to have been less severe but approximately the same region was covered. In southern Iowa their range has been extended about two counties further west and much of the entire region shows serious loss. It would seem also that a new area of infestation is being established in northwest Iowa.



Corn damaged by White Grubs

Under usual conditions these grubs would have disappeared in pupation about the middle of May, 1925. In fact, however, corn suffered serious loss from them in several counties, as late as the middle of June. This could likely be attributed to erratic weather conditions which prevailed throughout the spring of 1925. The next brood of these grubs is due in their damaging stage the spring and summer of 1927. The flights of May beetles in 1926 will give some indication of the probable extent and seriousness of the 1927 outbreak.

The photograph of the damaged corn field was taken in 1924 in Wayne county and was furnished by the Farm Bureau.

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