

# The Canadian Entomologist.

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## PROCEEDINGS OF THE ENTOMOLOGICAL CLUB OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

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The Club met again at 5 o'clock, August 20th. Mr. J. Fletcher presented some notes upon injuries caused by the Hessian Fly, the Wheat-stem Maggot and an undetermined species of *Oscinis*. He said that the note was presented with the object of eliciting further information upon a subject which had proved of great interest to him. During the past season he had endeavored to determine the number of broods of the Hessian Fly for the Ottawa district, and had found, first, that the Hessian Fly, the Wheat-stem Maggot and *Oscinis* were all found at the same time and in the same plant, and further, that, speaking generally, they passed through their stages contemporaneously. Of the three the last had proved much the most destructive. From root shoots of wheat sown on the 14th of April he had bred Hessian Fly and *Oscinis* at the end of June, and a month later *Meromyza* had appeared. He had also noticed in some fields at Ottawa that a large quantity of spring wheat was attacked by Hessian Fly in the ground shoots, or stools, in the same manner as fall wheat is attacked in the autumn. It was frequently the case that on plants which had made from fifteen to twenty stools but one would be left, all the others having been destroyed by the insects. He had procured adult Hessian Flies at Ottawa during this season in the beginning of May, at the end of June, and in August, and they would probably appear again in September. He had not been able to find the Hessian Fly breeding in any of the grasses, and would like to know if others had done so. *Meromyza* and the *Oscinis* had been most troublesome pests in the experimental grass patches at Ottawa, some grasses being almost exterminated by them. It was remarkable that the spring appearance of *Meromyza* had been so enormous as to have caused fear of a serious destruction of the wheat