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## NOTE ON THE FINDING OF HÆMAPHYSALIS PUNCTATA AT WINNIPEG, MANITOBA.

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In August, 1909, I was given two female ticks (taken from a steer) which had been collected by Dr. Hobbs, of Winnipeg; these ticks proved to be identical with some females sent in a year previously to the Biological Laboratory by Dr. C. D. McGillivray, also from Winnipeg. At that time it was thought that they might prove to be *Boophilus annulatus*. After examining the ticks, I had no hesitation in deciding that they belonged to the genus *Hemaphysalis*, that probably the species was new to North America and might prove to be a carrier of Red-water. As far as I am aware only two species of *Hemaphysalis* have been described in North America, i.e.: *Hemaphysalis leporis palustris* and *H. chordeilis*. (Banks, Revision of the Ixodoidea of the U. S., 1908.)

On obtaining permission from the Veterinary Director General, I forwarded drawings, also specimens, together with a description, to Professor Nuttall, of Cambridge, who was kind enough to identify the specimens, and has replied, saying the tick is a female *Hemaphysalis punctata*.

According to Nuttall, *H. punctata* has only been recorded once before in America, by C. L. Koch, at Para, Brazil, in 1847. (?) He described it as *H. cinnabarina*.

I have no need to point out the importance of this finding, and to the possibility of this tick transmitting Red-water (*Piroplasmosis bovis*) to Canadian cattle, as it has been proved to do in England and elsewhere. As the tick is a three-host tick, its eradication will be a most difficult matter.

I append the description I sent to Professor Nuttall, and below it a condensed description taken for comparison from Parasitology, Vol. I, No. 2, June, 1903.

*Hemaphysalis*.—Description sent to Professor Nuttall: Female gorged; colour greenish-gray in fresh specimen, brown-red in alcohol. Scutum and legs brown; capitulum broader than long; hypostome,