

UNITED STATES DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY,
WASHINGTON, D. C.

March 25, 1912.

Dear Doctor Lutz:

I have your letter of the 22nd of January, and note that you are leaving on a three months' trip and that Doctor Neiva is making another journey in another direction. I wish you excellent results from your investigations on these journies, and am glad to know that your work on the Ceratopogoninae has far advanced. I hope I may be able to see it before very long. I wonder what you have been able to do in the way of working out the biology of any of your South American species. There is a species on the sea islands of Georgia and another, perhaps the same, on the Isle of Pines near Cuba, which are known as sand fleas, but no one so far as I know has been able to find out the breeding habits and the place where the larvae live. The late Mr. F. C. Pratt of this Bureau, as I may have already written you, has worked out the life history of one of our North American species, namely Ceratopogon guttipennis Coq. It is published in Part III of Bulletin 64 of this Bureau, pages 23 to 28. You probably have this bulletin and can readily refer to the figures and data. He reared this species from dirty water in holes in poplar stump, and also from water in the holes of tree trunks in Virginia and Texas. In this article he gives notes about the rearing of other species. If you cannot lay your hands on the article in question, and will write me, I will send it to you.

I take pleasure in sending you another copy of the paper on
the Insect fauna of Human Excrement, for your friend.

With best wishes,

Yours sincerely,

L. O. Howard

Chief of Bureau.

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