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Attention is also drawn to the fact at American foul brood is of much re general occurrence than Euroan foul brood, a fact which no person

opinion that the selling of a glucose, or other artificial product, under the name of "honey" or "Canadian honey," no matter what explanation may appear on the label, ought to be put a stop to; and if Canadian honey has any ambition to secure a reputable place in foreign markets, it is time for Canadian bee-men to bestir themselves.

Yours truly

A. McGill, Acting Chief Analyst.

In our last issue we noted the comment of the Editor of the "British Bee Journal" on Dr. Phillips' circular, "Brood Diseases of Bees," issued by the Department at Washington, and Dr. White's designation of the disease known as "black brood" as European toul brood. It is only fair to Dr. Philips to give his reply to the criticism. which appears in a recent number of "Gleanings in Bee Culture":

Dear Mr. Root-I notice that the wrier of the editorial in question says that European foul brood," or "black rood," is of recent occurrence in Engand. I should hesitate very much in aking exception to a bee-keeper of per cent he high standing of Mr. Thomas Wm. owan, but in Cheshire's portion of he paper on "Foul Brood" in the Journal of the Royal Microscopical ociety, 1885," part of the description ncrusted ats "black brood" much better than it oes the ropy type of disease whch we all "American" foul brood. Cheyne, tho really did the work, describes the ne sample used by him as watery, hich does not apply very well to the py type of the malady.

Mr. Cowan says: "There are two rms of foul brood, a mild and a virunt one * * * "but we are not told any of the scientific literature with hich I am familiar in which one of se we are to look for Bacillus alvei, or do I know of any ground for the elief that the two diseases are but rieties of "foul brood caused by one ecific bacillus."

will be inclined to call in question.

The possibility that Dr. White has cultivated a non-pathogenic saprophytic bacterium under the supposition that it is the pathogenic bacillus of American foul brood is suggested; but since Dr. White is the first and only bacteriologist who has attempted to investigate the non-pathogenic microorganisms of the apiary, this may well be considered a criticism of small weight. Other investigators have been satisfied to leave the normal invisible flora of the apiary unknown, and we are justified in the belief that on this very rock have they been shipwrecked. At any rate, Dr. White expresses the belief that the results of Howard, Mackenzie and Harrison are false because they did no work in non-pathogenic forms.

According to Dr. White, Bacillus larvae is found universally in diseased larvae of American foul brood, and in not a single instance has he found it in the numerous normal combs which he has examined, nor has it been found on healthy adult bees or in the intestine of normal adults. He assures us that it is universally present in every case of American foul brood examined by him since he first used the media made of bee larvae, and never present in any of the normal material examined. This to a bacteriologist or even to a layman is rather good evidence of the pathogenic nature of the bacillus in question.

The principal criticism in Mr. Cowan's editorial I shall quote: "It appears to us that the most important test has been omitted; and until that has been made successfully our judgment must be suspended. The test we allude to is to prove that the disease can be reproduced in healthy brood from a pure culture of Dr. White's Bacillus larvae." This test has never been made by Mr. White, and the desirability of such a test is, of course, The criticism is, however, evident. somewhat misleading, for the reader might be led to the belief that such a test is usually applied in the study of micro-organisms supposed to be pathogenic. I believe I am safe in saying that this test cannot be applied in many cases, nor is it considered necessary in all cases by bacteriologists.