

disinfected." My comment on this is that the exception should prove the rule!—especially when the cause of that exception is not absolutely known. But Mr. Root adds one more sentence to the above, which, in my opinion, has special significance. It is this: "And we are glad to note that our Government officials stood out square and clear on this proposition." Why glad?

Our Provincial Government here in the Province of Ontario is assisting the bee-keepers of the Province perhaps as well and as generously as any government in Europe or any State in the neighboring Republic, and the method pursued by all of its fourteen inspectors is that of shaking on starters and foundation, and disinfection forms no part of its formula. Not one that I know of disinfects old hives, and old hives are in constant use. The same methods are practised by the inspectors of the United States, notwithstanding the fact that Mr. Root declares "We are glad to note that our Government officials stand out square and clear on this proposition."

How square do they stand? How many are there?

With the exception of Dr. White, who among the inspectors stands for disinfection? Dr. White's statement is a careful one, with which I can find no fault. He speaks as a trained bacteriologist, in whose nomenclature disinfection is a familiar word. But his statement is not necessarily final, against the word and work of the active men in the field. Dr. White also says: "We do know that in foul brood it is possible to obtain bacillus larva from the honey, and we do know that when bees are fed the spores of bacillus larva in honey, American foul brood will appear in the apiary." Very good, but who first discovered it? Was it Dr. White, or some brother bacteriologist? On the contrary, when the announcement of this discovery was made, a certain bacteriologist gravely remarked that he would stake his reputation that it was not true! But when another bac-

teriologist more worthy of the name discovered that it was true, he declared that the man who made the discovery "was a Moses in the wilderness trying to lead the bee-keepers to a promised land," or words to that effect.

Now for the "Government officials that stand out square and clear on this proposition": Mr. N. E. France is reported to have said at the last National meeting at Detroit:

"I am not as old as Brother McEvoy across the water, but I have put in twelve years of inspecting and treating diseased bees. In the first year I boiled the hives, and if ever I saw anything that was sickening to a bee-keeper it was a lot of boiled hives. They all warped out of shape, and I found they were no use, and in later years no hives have been boiled or burned, and they are all in use today."

We quote again from the last National convention at Detroit:

"Mr. Mainwaring—We have been told by Mr. Taylor [The Hon. R. L. Taylor is inspector for Michigan] and others that it is safe to use hives in which foul brood has been found. I would like to know whether that is the universal belief, or whether there is any exception to that. I understand from Mr. Taylor that all that is necessary is to clean out an old hive and you can use it again.

"Mr. Taylor—I can't tell what the general belief is, but that is the belief in my house.

"Mr. Williams—Mr. Taylor speaks of using the hives again. Does that include using the frames over again?

"Mr. Taylor—I have. If you boil them thoroughly I consider it safe. In fact, I think it would be safe without it in the majority of cases, because the foul brood does not go up to the frames, and if I cut out the combs I would not be much afraid to use them just as they are."

Again, in answer to an enquiry by Mr. Holtermann in reference to this subject, at Detroit, Dr. White replied:

Dr. White—As far as I know, there has been no work done upon this line. The paper read that it would be safer to disinfect the hives, but whether it is necessary or not we do not know. If there were honey or burr combs containing honey left in the hive, it would be almost necessary to remove them.

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"What did you used just

"Well, you fruit fertilizati and female cre plies to the s vegetable king watched a bee out with her pollen-grains, dust from the flower. Aw with 'cupid wi bloom she uncoi grains on to the of the flower s down into the s set the fruit, a plants are laden red raspberries, rosy-cheeked ap To attract these out of its abund nectar, loading until, with meas hie away home. when strolling a hen on her nest, have counted h you tell me exac how many fema those eggs?"

"No; I don't t

"But we can d A bird's nest has but a bee has a egg, which we c