NEW LIGHT ON BROOD DISEASES.

A report has just been issued of the investigations made during 1905 in the Imperial Biological Institute of Dahlem, near Berlin. In this report Nos. 2 and 25 are of special interest to beekeepers, as they, treat of the experiments made on the diseases of brood. The first treats of foul brood of bees, and the last of what has been called "Aspergillusmykose" of bees.

The Institute received 119 samples of diseased brood, and 112 of them were found to be foul brood. It is stated that bee-keepers suppose that Bacillus alvei is the prime cause of foul brood. The investigations of the Institute tend to show that this is not absolutely correct, and that other bacteria play an important part in the development of the disease. In other words, of the 112 samples of foul brood examined, Bacillus alcei was found only in 13, or in round numbers in one sample out of every nine. This unexpected result gave cause for considerable reflection and experiment. Food containing the bacilli mentioned above was given to healthy colonies, and foul brood failed to break out; nor was any effect produced when bacilli were brought in direct contact with the larvae and nymphs in the cells.

From this it would appear that Bacillus alvei is of less importance than has hitherto been attached to it. Not only so, but in every case of foul brood another microbe has been found, sometimes in company with Bacillus alvei; but all attempts to produce the disease with it failed; therefore it cannot be considered as playing any part in its produceion.

In continuing the investigations a different microbe, a Spirochoete belonging to an altogether different family of the higher bacteria, was found. It is spiral in form, is not motile, a appeared in all the samples of brood, as well as in the dried mas and scales, even when these were eral years old.

According to the report the searches were to be continued has 1906, and it will be interesting to k will be glad to if this hitherto unknown organism anything to do with the disease of ing so much damage to the bee in March, those wi try. In any case the results ten mined, stores y show that Bacillus alvei is not the ed within easy cause of foul brood, and, when pre plays only a subordinate part.

No. 25 treats of what Germans outlook was ver "Steinbrut," or mummified brood ming of April 1 this disease the brood becomes ened and brittle, and, what is important, adult bees are also affer It is due to a microbe called Asp lus flavus, found in abundance i affected brood and also on the strong ones had of adult bees. Inoculation experion rabbits and fowls not only pro the disease, but caused their from which it is inferred that microbe is the true cause of the ease in question. We would, he point out that too much reliance not be placed on this, as we know Aspergillus flavus is pathogenici bits, whereas it is saprophytic i The disease seems to be epide some districts of Germany.

Ask the average child whe will have honey alone on his or butter alone, and almost in he will answer: "Honey." dom are the needs or the tast child properly consulted. The craves fat meat; the child lo He wants sweet, not fat. He to eat honey; it is a wholes for him, and is not expensive should he not have it?

the bees and As for my or arances with h when the sur not a day favo y, so that whe weeks later on starvation and succumbed alte w were put fro of them were ! and even then of us would did not appear of the cellar those that will ear. I never k er. Those that fared better out, This spri: brable to those t were removed pollen opened.

bees came throu Out of nearly 3 utright. I noti nd may have a them are very of stores. The mile away from have to be load and hauled. 1

sels. Ont.