

good deal longer than the middle of September. I find brood until the middle of October. I presume it is owing to the locality; if there was nothing for them to gather they would not be breeding up to that time. It would be unsafe for me to look over the colonies to see how much stores were left until they have left off breeding.

As to the feed, if I find they diminish I feed them well and give them a syrup as thick as they can very well take. The food I give them is 5 pounds sugar to 2 pounds water. You may find that too much sugar, perhaps. I mix it with hot water, too, but, all things considered, it will perhaps be better to make the proportions 5 to 3 instead of 5 to 2.

Now as to the amount of stores, I think a person will need to be pretty accurate and examine each comb separately. I weigh the colonies and know how much a 10-inch frame should weigh. By weighing a colony I can tell how much stores it has, then I go to work and weigh a lot of brood combs that are empty, and I make plenty of allowance for old combs.

Mr. Timbers—Might not a bee-keeper be deceived sometimes? The cells might be half full of pollen. There ought to be some method of ascertaining whether the combs contain more pollen or more honey.

Mr. Holtermann—If a man is going to feed his bees he should examine them first. You are not likely to find combs so pollen-clogged unless the queen has been absent.

Mr. Timbers—I mean in the stores gathered by the bees themselves.

Mr. McEvoy—It does not matter if there is a good deal of pollen. The bees consume the honey up until they strike that pollen. You should feed to cover the pollen; feed plenty.

Mr. Timbers—Will that amount of pollen answer the same purpose during the winter as that amount of honey?

Mr. Hershiser—No.

Mr. McEvoy—No, but if you feed plenty of stores it doesn't matter if there is quite a bit of pollen.

Mr. Holtermann—You are afraid of

giving the bees too little rather than too much?

Mr. Newton—Speaking about lifting and examining the hives to tell what they weigh, I think there would be lots of trouble among our younger beekeepers if this were adopted. The most satisfactory way is to weigh the hive, and then allow so much for the hive. I calculate 23 to 25 pounds for my hives. If mine weigh 52 to 55 pounds I feel satisfied that colony will go through; that is, in the brood-rearing season.

The President—That is good advice. When I first started bee-keeping I could not by feeling the hive tell how much it would weigh, but I got to be a pretty good guesser as to how much a hive would weigh, and for two or three years I have hardly used the scales. Sometimes I test to see if I am correct.

Mr. Hershiser—It depends a good deal on what time of day you weigh. In the evening they are heavy and in the day they are light.

Mr. Roach—Suppose you do away with this weighing and feed them as much as possible, would you have too much?

Mr. McEvoy—Yes.

Mr. Holtermann—With reference to feed, I think two pounds of sugar to one pound of boiling water makes the best food. In the matter of weighing I agree with the President when you are used to it, but I think if you are not it is better to use the scales.

Mr. Deadman—The strength of the syrup depends on the time of year you feed; if early in the season use more water. I like to feed with warm syrup especially if the weather is cool.

Mr. Whiteside—There seems a difference between feeding and the bees gathering it themselves. In 1889, for instance, at one of my yards they got a surplus of about 1,200 pounds, and took this surplus and fed the other young bees with it and brought them up to the same standard. About the next June I came round to this same yard again and found it was all right—there was hardly one short of stores in it—but the other yards had about

150 starved to death in 89 colonies in the surplus; the about 50.

Mr. McEvoy—them?

Mr. Whiteside—Mr. McEvoy—period?

Mr. hWhiteside—September.

Mr. McEvoy—brood rearing?

Mr. Whiteside—colony to have p. another thing to a difference. All were at starving I the feed they could day.

Mr. Brown—Is

throughout the w feed with sugar s; honey, their natu

find colonies of be take out the empty

them with honey. it is warm or cold

food for bees.

Mr. Couse—Mr.

feeding back honey

honey which I inte

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granulated, and the

abundance of honey

ed with honey, ordi

Mr. Brown—Had

out of the comb?

Mr. Couse—Yes,

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but I find it granula

Mr. Grainger—I h

Brown's plan, savin

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successful in putting

they are sealed and

feed for a colony tha

Mr. Switzer—I hav

granulation. I have h

four winters now