

I have short cuts now that you don't see and cannot convince you of here. I am not here to convince you of it. I simply read my paper. The help employed would be three in Mr. Holterman's case, and one in mine.

Mr. Pettit—I have found in going over the brood chamber, looking for cells, that we think we have all the cells or perhaps we would not find any cells at all until we got two-thirds of the way through and took out the next comb, and there in some out of the way corner would be a cell, and that left would mean a swarm.

Mr. Miller—If I could make it clear in the Hedden system we don't lift the comb; we are not looking for cells on the comb; it makes no difference whether there are five hundred cells in the colony, I simply know that there are cells present and my next move destroys those cells whether there be one or many.

Mr. Pettit—There might be only one cell left.

Mr. Miller—But that cell would show from the bottom. I never knew it to fail. We divide our brood chamber there. We handle the colony to prevent swarming.

Mr. Chadwick—Take this chart, my hives are Langstroth. Would it be advisable when this gets quite full of brood to put a super below or another body below or another body filled up with comb or foundation and let the bees work away?

Mr. Miller—You are now giving me a problem which I couldn't work out satisfactorily at the moment. If I were adding a super there I would put it on top if the weather is sufficiently warm. You have a system now of management by frames which would not work the same as mine.

The President—Would the addition of another case control the swarming?

Mr. Pettit—No. After it is started you can't do anything. In connection

with this swarming business there is one thing we ought to keep always before us and that is locality. Where we have one continuous flow from spring until fall the swarming problem is very serious. Where we have that break between fruit bloom and clover, possibly between clover and basswood, and then between basswood and the fall flow, it so effectually checks swarming that there is not nearly the trouble with some of us as with others.

Mr. Darling—I use a deep frame and there has been many times in my experience when the bees have swarmed with me without either honey or brood going to the bottom of any frame in the hive. I don't think it would be any advantage to place a second division of the Langstroth hive underneath.

At the request of the President Mr. Pettit read a paper which had been prepared by Mr. W. Z. Hutchinson of Flint, Mich., on "Importance of Queen Bees," as follows:

#### Queens and Their Influence Upon Success in Bee Culture.

I expect it will be called heresy, but many times when reading extravagant expressions about "the whole of bee-keeping centering upon the queen" I have felt like exclaiming, "Other things being equal, one queen is as good as another!" This may be putting it stronger than it will bear, besides it does not exactly express my meaning. Perhaps I cannot make myself exactly understood, but I will try. It is not so much what a queen is herself as what her ancestors were, or rather what her bees are; that is, she may be an insignificant-looking specimen, may have been reared in a manner wholly at variance with the established principles of queen-rearing, may be one of those short-lived affairs whose days are soon numbered, yet if she comes from the right stock her bees, whatever may be the number of which she becomes the