

these ventilators, only I think I have a better way than to bore a hole of that size. I have an opening of about three-eighths of an inch in depth right across the hive. I have no difficulty whatever in having bees store honey next to these ventilators.

President Dadant—It is a fact that where there is a hole in the oilcloth, even if there is a straw mat such as we use on top of the frames, there is a slight amount of ventilation there, and the bees put less honey at that spot.

Mr. Ferris—Bees that are queenless will go into the supers quicker than bees that have a queen. That is one reason why I advocate taking away the queens at this period, at the commencement of the honey flow. You can control swarming at the commencement by giving the queen room to lay. But after the honey-flow commences they will enter the honey sections more readily if they are queenless for the first three or four days than they will if they have a queen. I use no more bees to winter than you would winter ordinarily in a 10-frame hive.

Mr. McEvoy—Did I understand this gentleman to say that he uses 14 frames in a brood chamber, and the brood is all in the brood-chamber and an excluder on?

Mr. Ferris—I always confine the queen below. In our locality we will have all the lower frames filled with pollen. I have seen it time after time; if we allow our queens to run at random through the hive without an excluder, they will store the first story full of pollen; the next step will be a brood nest, and the honey on top of all.

Mr. McEvoy—I see by the papers that they all advocate large brood-chambers. I have only a medium size, and yet I rear more brood than the most of them, because I go in, as a rule, for pretty near 18 frames. I put the queen above and then I clip off at certain periods, and I leave that

brood afterwards, and in nine days it is capped. I let them swarm and come out with an immense lot of bees. From my point of view I don't want too much super-room, because I can get better ripened honey, and a finer quality and less swarms.

Mr. Ferris—I get 30 frames of brood instead of 18 by June 15 to June 18.

Mr. McEvoy—I understand you to have had the 14 frames just below?

Mr. Ferris—No, I keep tiering them up until the flow begins; I let the queen have full range until the flow.

Mr. McEvoy—All right. I agree with you. That is the best thing I have heard yet.

Mr. Bartz—It is not advisable to mix the two matters, comb and extracted honey the way you are doing. They are different matters, and require different treatment. I would like if each method were treated separately. Most bee-keepers can control increase when running for extracted honey, but the difficulty seems to be with comb honey. Mr. Taylor—The trouble, I think, is that these people who control swarming are producing extracted honey, and those who produce comb honey cannot control swarming. That is the reason they don't discuss it so much.

Mr. Ferris—There is a question I want to ask. Take these supers, no matter what size section we use, and extracting frames, so that you can put an extracting frame all drawn out with a nice white comb in it on the outside of each side of the super, and in the large cases put one in the middle. When you put that on, the outside will be filled first instead of the center of the hive, and then the super will be capped more evenly all over. Are there others trying that method in different localities?

Mr. McEvoy—Yes; that will work all localities.

Mr. Ferris—We know our poorer sections are almost invariably on the outside of the super, and by getting

those capped quantity of it in Mr. Jackson's your queens in er and allow you keep the frames drop, Mr. Ferris—solid partition bottom, and ti out the one s the division b cloth over ti Mr. Hatch—right of one p influence of dr my observa at a swarm comes present. would look for ten cups. I successful bee- res, 12 inch ep. He starti tion and the n. He is ve ing but work es. As the goes and pri says, "There y are prepari apes that of tion between ed for ten da arm. He didr swarming is a length and po stop that, but tion. Just se is not wh at to control shall not los ish it. I ha s, and I have ary way tha ease, but wha e honey. I t the queen will sulk, and