

consideration I think it would pay well to build a cellar.

Mr. Hall—I want to suggest to Mr. Fixter that in answering Mr. Smith he has just given us the reason why those outside consume more honey. As soon as you get your bees out in the spring they begin to brood. I once put out twenty stocks in Heddin hives on the 1st March, temperature went down 10 below zero, and I said to myself, "You ought to be kicked." Allow me to tell you that those twenty hives, with one exception, when the honey flow came, were about two weeks ahead of all the rest put together.

Mr. Post—As these experiments were all conducted about forty inches from the cellar bottom floor it would have been very interesting to have had two hives prepared, one quite close to the bottom of the cellar and another one higher up. There are not many of us who have the room to put our hives forty inches from the cellar bottom. I have to begin close to the floor. I commence by putting a cushion under the first one. There is a trouble with bees becoming mouldy at the bottom and the reason of that is that if there is any current of air the cold air will circulate near the floor of the cellar and striking the bottom of the hive it condenses the warm air in the hive and causes moisture. If the bottom of the hive has a cushion put underneath and the hive is set close to the floor I cannot see any difference between the top tier and the bottom.

Mr. Holmes: I would like to ask Mr. Fixter with reference to the loss of bees in the first flight, in the experiment where he had to remove the snow.

Mr. Fixter: You will have to watch the day that you set them out. If you can get a day when the temperature runs about 48 or 50 and

calm there is very little loss, but if you happen to get caught and put them out and the wind comes up cool, then you will find quite a few dead bees on the snow. But I would take my chances and set them out.

Mr. Evans: I would like to suggest an experiment. Instead of putting a block under the hive just simply pull the hive back so that there will be a space of about two inches behind the bottom board. That is my system.

Mr. Hall: Mr. Evans is all right with this exception that if you put a couple of hundred stocks in the cellar you are sure to have a larger or smaller quantity of bees die. The live ones are lazy sometimes, and they don't carry the dead ones out of the hive; they let them lie on the bottom board, and there they accumulate and touch the combs and the combs become mouldy. If you raise them up that doesn't happen.

Mr. Miller: I find an excellent way to avoid this trouble if a man is lazy, is to leave the bottom board in the yard; lift your hive directly from the bottom board and carry it to your cellar. The idea of bees escaping is erroneous. I have found it very satisfactory both in carrying in the fall and in placing out in the spring.

Mr. Hall: If Mr. Miller had a cushion in front he couldn't carry very many out except with a hand barrow (Laughter.)

Mr. Miller: I carry them on my shoulder.

Mr. Heise: The only experiment that I am particularly interested in is where they were wintered outside. Mr. Fixter told us that the consumption of honey was somewhere in the neighborhood of six pounds greater than of those wintered in the cellar. Mr. Hall said those wintered outside commenced brooding earlier than

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