

if they were placed in properly. Some who have water in their cellars, winter with perfect success every year. Let us hear from you, what the cause of dampness is, and what you think the necessity is for building a bee house when you have a good cellar. We shall be pleased to give you full description of any of our bee houses at any time, and probably will get time to do so in the next JOURNAL. The cedar log dwelling could be arranged with little expense to work admirably either where it is, or it moved nearer your apiary. By studding up inside and putting boards inside the studding, you can pack eighteen inches of sawdust all around and make a good warm repository. The sawdust should be overhead as well. This would probably be cheaper than building a house expressly for the purpose. The house would have to be banked up all around, so that no frost could possibly get in. If you could put in a sub-earth ventilating tube it would be an improvement, if not, (should your ground be too wet to allow of such an arrangement) it would then be necessary to put one large pipe about twelve inches square inside measure, from ceiling of bee house up through the roof as high as possible, say twenty or more feet in length, then two short tubes just coming through the ceiling. These would let the air in and the long one would let it out. By having the two short tubes placed in opposite corners and the long one in the centre, the temperature could be more evenly kept.

QUEENS AND FERTILE WORKERS.

ALWAYS understand from the run of remarks in the bee-papers, that queens laid one egg only in a cell, and that a laying worker was known by two or more eggs in a cell; also that a laying worker was only developed by the absence of a queen and material to make a queen of. The other day I was examining my bees, and was astonished to find about a dozen contiguous cells with two and three eggs in, mostly sticking to the sides near the bottom, while a nice queen was only two or three inches

off, moving along, as usual, over the comb and among the bees. There were plenty of other cells with only one egg in. Can you explain about those surplus eggs?

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If the queens have plenty of room to lay, and plenty of bees to take care of the eggs and brood, they usually lay but one egg in a cell, but we have known them to be crowded for room and scarce of bees to take care of their brood and eggs, (especially is this the case in the Spring of the year,) and they have put many eggs in a cell; in fact so far as the number of eggs is concerned, although not placed on the side of the cell, they would almost be taken for fertile workers. It appears to be caused by the bees not being able to take care of the large brood-circle, and the determination of the queen to lay, after depositing one egg in a cell she passes over again depositing another and so on until many eggs are laid in the cells, but usually in the bottom.

FOR THE CANADIAN BEE JOURNAL.

NOTES FROM WILL'S APIARY.

NO. 3.—MY WINTERING REPOSITORY.

SINCE Spring I have been seriously considering the advisability of putting up a bee-house. I have been taking stock, and I find in this section bees have wintered with less loss inside than those outside. I thought of putting up a sawdust house, then as we do not own the land I concluded to put in a cellar, and last week I broke the sod. I shall build it this way: Dig it four feet deep, then take and set in timbers in the outside, say two feet from the edge, and bring them together at the top the same as a house-roof; then lay on some old boards, plank, rails, or anything, then pile on say six inches of sawdust and a foot or more of earth, enough to keep out frost. Will put in a sub-earth ventilator, 100 feet long three and a half feet deep at the cellar. Will put in a ventilator at the top. Shall dig it twelve or fifteen feet long and seven feet wide. The bank is all sand; shall put one vertical door and the outside door at an angle of 45°; shall put a small pane of glass in the inside door and hang a thermometer inside, and hang a dark piece of