



"THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER."

VOL. II. No. 48. **BEETON, ONT., FEBRUARY 23, 1887** WHOLE No 100

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For the Canadian Bee Journal.

LIGHT FOR BEES.

I NOTICE that in giving instructions for raising the temperature in bee cellars by means of lamps, you advise covering the lamps to prevent the light from shining in the cellar. This caution is not necessary, as I have proved beyond a doubt that the light *does* not disturb bees in their winter confinement, neither light nor noise will disturb them. Heat will, I have experimented considerably this winter with lamps and I find by burning one

lamp at night in my cellar I can keep the temperature from falling in the coldest weather. I set the lamp on one of the hives about the center of the cellar and let the light shine. The wall on the north side of my cellar is all under ground, but three feet of the wall on the south side is out of ground. In this wall I have a window, the bottom of which comes to the surface of the ground. This window is hung on hinges at the top and is double glassed. In mild weather, when the mercury rises above 45°, I open it at night. By using this window and lamp I can keep the mercury between 40° and 46° in any weather. 42° is about the average temperature of my cellar this winter. It has been as low as 40°, and as high as 46° and they are perfectly quiet at these temperatures. They are in a full blaze of light all day, and by night, in severe cold weather. I have 58 colonies in my cellar. They are in single rows, not tiered up. I left room between the rows to pass through so that I can examine them at any time. I put them in the last week in November, and I darkened the window for two days when they were first put in, I then let all the light in the window would give and have had the light up to this date. My cellar is light enough to sit down and read a newspaper in the darkest corner of it. The hives are sitting on benches two feet from the floor and when the sun shines it shines right on the hives and not only on the hives but right into the entrances. The first row faces the window and is only a short distance from it. All the hives are raised in front from the bottom board by means of blocks $\frac{3}{4}$ in. thick, and they have the whole of the summer entrance and the thickness of those blocks for ventilation, and on this front row the sun