

of food taken by the bees making it richer or poorer and is under the control of the bee-keeper. When feeding for winter, the bees should be considered for stimulative feeding, artificial honey-flow, and water fed in the autumn and the fore part of winter to place the bees in excellent condition for winter.

This system of open-air feeding, better queen-cells; the bees feed to greater activity, and in two or three days is going on at a rapid pace. The bees will be filled with honey into winter, which, in well ripened stores of honey, is about the best kind of food for bees. In order to feed profitably, one should keep a reasonable distance from the bees. Every queen-keeper should be so situated.

The feeder would be a pan three feet wide, and four feet deep, with a frame-work of wood on edge $\frac{3}{4}$ inch apart, and on tank to supply the bees with the half-inch pipe having a hole in the flow. If located near a water supply, the tank should be refilled a few minutes each day, and require further attention. The feeding of thin bees for spring stimulative feeding exhausts the vitality of the bees, and have come through the winter to drop off rapidly. But come to the conclusion all is the right time to stop feeding."

As the feeding operation is remarked on test after test, the bees after they had been ten or twenty days to eject tiny squirts would thus appear that

the bees were able by some process or other, to separate and discharge the excess of water whilst on the wing.

IRISH BEE JOURNAL.

The Irish Bee Journal for September is a good number, as usual. It is full of concentrated bee-lore, contributed by well known British and Irish writers. Mr. Bullamore contributes a short article dealing with the question of the "Aroma of Beeswax." We regret Mr. Bullamore did not write at greater length. Mr. Maguire, writing upon "The Season, the Honey Flow and the Harvest," has a pretty doleful tale to tell, but all the same the tone of his remarks bears witness to the not unhappy lot of the bee-keeper. Incidentally, Mr. Maguire compares the black and Italian bees as follows:—

Our own old black bees seem to be able to hold their own with any of them. Given a proper chance, they can raise stocks equal to any Italians, and they are not nearly so much given to swarming. Their sealing, too, is infinitely better than that of some strains of Italians. A friend of mine has a lot of golden Italians—beautiful bees, headed by half-guinea queens. They were blowing off swarms all summer, and some of the sections are quite unsaleable—they look as if they had been out all winter. A half-bred stock of the same strain, however, has given me some fine sections, though hardly equal in sealing to those of the natives."

In another useful article, Mr. Tinsley gives timely instructions on "Wintering." But perhaps the most delightful contribution in this excellent issue is the editor's witty and amusing exposure of an unlucky author of a recently published hand book on bee-keeping, whose numerous errors prove him to be a mere tyro in the practice of bee-keeping. Want of space forbids our making extracts.

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