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APTARY.

OFFICERS OF THE ONTARIO BEE. BERPERS ASSOCIATION,

President, Mr. B. Corne II, Lindsay; 1st Vice-President, J. B. Hall, Woodstock; 2nd Vice-President, Dr. Thom, Streetsville; Soc. ctary-Treasurer, Mr. Jacob Epunce, Toronto.

Executive Committee-M. Ramer. Codar Grove; D. Chalmers, Musselburg; O. Mitched, Listowell; B. Davidson, Uxbridge; W. E. V. ells Phillipatown. Communications on the business of the asso-ciation, and boo-keepers' department of the Canadian Farman to be addressed to the Secre-tary-Treasurer, 251 Parliament St., Toronto.

NEW VARIETIES OF HONEY BEES.

Through the efforts of Messrs. D. A. Jones, Frank Benton, and others, who have spent much time and money in this 'direction, several varieties of bees, new to this country, have been introduced, and their comparative value to some extend tested.

The Cyprians have some marked characteristics. They have been quite thoroughly tested, but do not grow in favor with the majority. They are far to irritable to be agreeable to handle. Some consider them superior honey-gatherers. I have given them quite a thorough trial, and the only point I could find in their favor, was a tendency to breed late in the fall, which is desirable as affording a good force of young bees when going into winter quarters. I have not tested the Syrians. Mr. Benton pronounces them among the very best. The Carniolans are said to possess some very desirable qualities, and a cross between them and the Italians have a good reputation. Much has been said of the Holy Land or Palastine beer, but my own experience does not corroborate all that is claimed for them.

Mr. Julius Hoffman received an importation of Caucasian bees in 1880. He has experimented quite extensively with them and is of the opinion they are superior in many respects. In fact, I have never heard more desirable points claimed for any one variety than Mr. Hoffman claims for these. He is one of our most practical bec-keepers, and his conclusions should be received with confidence. Much credit is due those who have been so persevering in securing to us these new varieties. The ultimate results must be of great good, as the fu ture crossing of these strains will no doubt give us one with a combination of very superior traite. L. C. Roor, Author of "New Bee-Keeping."

NORFOLK BEE-KEEPERS ASSOCIATION

The fourteenth regular meeting of the above Association was held in Simcoe on the 7th inst. First Vice-President (Mr. Moses A. Kitchen) in the chair. Minutes of the last meeting read and adopted.

Question drawer opened:

- (1) Which is the better for bees, during the time of breeding, honey or pollen? After a full discussion it was decided that both are absolutely necessary.
- (2) What is the cause of so many bees leaving their hive in the spring? There are various causes; but the principle one is a need of supplies.
- (3) When a colony finds itself queebless

colony ! No; for when the bees find that they are without a queen, they are sure to set about reating a queen from larva already eight or nine days old, and which has proviously received no special nourishment; and the result is sure to be an imperfectly developed queen.

The next question that came before the Association, was one concerning adultera, ed honey. Some one had said that a by theeper had placed adulterated honor on the market. A sample of the article bein 3 produced, was examined by experts, and I recounced to be unadulterated, but of an . Eferior quality; having been gathcied later in the season, and not properly cured.

After di konsing other matters pertaining to the Asse ciation, the meeting adjourned to meet aga in at 2 o'clock, on Saturday, the 6th of September, at the residence of Mr. Moses A. Kitchen, on the gravel road between Bloomsburg and Waterford. All are cordially invited to attend.

ELL 18 CLOUSE,

Secretary. Simcoe, 20th June, 1884.

SUGGESTIONS FOR THIS HONEY SEASON.

The much talked of clover season is here, and bees are hovering over the frag. aut bloom, and drawing up the precious nectar from the tiny wells. Every facility for depositing honey should now be given them, and no colony be allowed to cluster on the outside for want of storage room. As fast as the combs are sealed, remove them, so that their delicate whiteness may not be impaired by the bees traveling over the caps. When the surplus receptacles are filled with comb-builders, and there are more bees clustered on the outside more room should be provided, and they should be given a hint to go in and possess it.

Spritimes bees lotter on the outside beacuse the heat of the hive is too great, and there is danger of the comb melting and breaking clown. Supply all needed ventilation from below, and raise the cover or the cap above the surplus arrangement. It may be necessary at times to shade the hive. No bee-master allows his bees to remain in idleness during the season of flowing nectar.

Bees may be prevented from swarming by many the extractor freely. Some beckeepers my that noney should not be extracted before it is fully ripened and sealed, while others equally successful, practice and recommend extracting before scaling, and evaperate afterwards. This is done in California in large tanks, in the hot sun. The thin honey rises to the top, while the thick is drawn through a gate at the

In order to produce a fine article of extracted clover honey, clean comb should be given the bees at the commencement of the flow, and extracted when sealed, or partially so, and kept entire by itself. No combs partially filled with uncapped larvo should be extracted fre un, for fear of "grub-juice." White clover no ctar is fit to set before a

When the hone ras sealed the bees should be intimidated wit ba little smoke, and as the frames of colab : are removed from the hive brush the bees will with a feather or little twig, or an asparog as Tranch. Put into a receptacle with a co ner, such as a tin combbasket, or box, and exervey it to the honeyhouse. The capping re can be shaved off with a knife madelfe r the perpose, or with and then rears a queen of its own, is it an old case-knife was within; then put into

can then he exchanged for full once.

A awarm of bees came out this morning (June 16) and commenced clustering in the top of a cherry tree. I anticipated some tall climbing to get them down, and watched to see if I could catch the queen as she issued. In a few moments I noticed the bees returning, when I pesceived the queen among the grass; she was two heavy with eggs to fly, and catching her by the wing, I put her into a live, and renewing the old one from its stand, put the one with the queen in its place, where her subjects soon gathered. The old hive was removed to a now stand, which will probably present after-swarming, and the partially fined honey-boxes removed to the new colony to be completed, as it will be very strong on account of occupying the old stand, as all the working fores will return.—Ex.

A MOVEABLE FIELD OF LABOR.

Sometime ago some one conceived the idea of a floating apiary to move around to different climated as the season and beefood demanded. This did not pay. Lately, however, a new kind of the same morement has aprung up, and we are likely to have movable apiaties.

Mr. M. M. Baldridge, the well-known apiarian of St. Charles, Ill., and Mr. E. T. Flannigan, of St. Clair County, in the same State, last November took to the neighborhood of New Orleans some 300 swarms of bees for wintering. The plan was to keep them there to work in early spring, say to about the second week of June, then thip them north to Kane Co. to feed upon white clover, and other superior honey-producing plants, until the first of August; then move them down to St. Clair County to gather honey from Heart's Eine, Loanish Needle, etc., until cold weather closes honey-gathering. Lt will thus be seen that is expected to secure three distinct boney seasons, and if desired, three periods of natural increase. Besides the advantage of an early honey crop it is calculated that in the mild chmate of Louisiana there will be little if any loss in wintering.

The first part of this programme has been carried out, and the 300 colonies, filling two cars, arrived in Chicago on Monday en route for St. Charles, their summer home. Mr. Baldridge informs us that the bees wintered without loss, but that the extreme wet weather along the lower Musissippl greatly interfeared with plant bloom, and that the honey crup was exceedingly light-indeed less than for many years, so he does not consider the profit settled for the first third of the season. The test for the second third will now be entered upon in Kine County.

The freight on bees in quantity from New Orleans to Chicago is about one dullar per hive, to which expense must be added the time and services of the attendants. To take them back, stopping at St. Clair County, will and something to the cost of freight and handling. Apiarists will watch the progress of this new bee We shall report enterprise with interest. in due time as to its results.

CHIME STRY OF HONEY.

The following able article on the above interesting subject taken from the Country Gentleman .

Naturalists have not yet decided whethtr honey is a secretion of the bee or whether it exists already formed in plants. It is certain that the nectures of flowers advisable to leave this queen with the an extractor, where a few swift turns will contain a saccha rive matter which is ex-

throw out the contents. The empty frames tracted b, the insect, and the fact is well known that the flivor and character of honey are so much affected by the nature of the plants which predominate in the vicinity of the hive, that, when these plants are polsoaous, the fluid sometimes partakes of their novious qualities. Several cases of palsoning from eating honey from a particular source, are recorded in medical literature. Sill, it probably undergoes change in the organs of the bee, as the saccharing matter of the acctaries, so far as it has been possible to examine it. wints some of the characteristic properties of honey.

> Honey is upt to form a crystalline deposit, and to be ultimately converted into a soft, granular mass, being then called " candled " Its specific gravity is Pout 1,23. It contains crystallizable sugar, applogous to that of grafes and accordiag to Prof Souberlan, two other kinds of augar, one of which is changed by seids, and has the property of turning the plane of polarization to the right. The other, and acted on by acids, is possessed of a etting left-hand rotating nower. The first of these two sugars is n it always present, as time is reason to believe that it is in time wholly changed by its acid into granular sugar-candled, It is especially abundant in new pancy. The second variety is very similar to the uncrystallizable sugar produced by the reaction of acids on cane sugar, being identical with it in composition, and, like it, incapable of crystalizing, and very sensitive to the action of alkalies. But it is distinguished by the impossibility of converting it into granular sugar, and by having nearly twice the rotating power of common uncrystallizable sugar. - (Journ. de Pharm. 3d series, xvi, 253.)

> Honey contains, beside the saccharine thoney contains, beside the saccuarine principles, an aroma, an acid, wax and, according to Guibourt, a little mannite (a principle; a 40th part of pure manna). The crystalline sugar may be obtained by treating granular honey with a small quantity of alcohol, which, when expressed takes along with it the other ingredient, leaving the crystals nearly untouched. The same end may be attained by melting the crystal because it acid with the candied honey, saturating its acid with carbonate of lime (chalk), filtering the liquid and setting it aside to crystallize, and washing the crystals with alcohol. Inferior hancy usually contains a large pro-portion of uncrystallizable sugar and vegeportion of uncrystalization sugar and vegetable acid. Samples of came sugar also differ essentially in chemical composition. According to the Chemical Gazete, brown sugar consists of came sugar, associated with variable quantities of hygroscopic moisture, uncrystallizable sugar, gum, albumen, extractive saline matter, and insoluble trganic and inorganic substances. Among the organic substance is a small Among the organic substance is a small proportion of time. By ke 12, it becomes soft, gumny and 1.53 sweet—a change attributed to the lime

Bee-culturists are aware that the great drawback in wintering bees is desentery.
The cause is yet a mooted problem not satisfactorily explained. Poor hovey, such as contains acid, ferments, gum, and all the deleterious substances in excess, inevitably produces morbidity if consumed by bees while in confinement Different samples of honey cannot be distinguished by purity of saccharine, except by snalysis. One bee culturist suspected that dysentery was caused by some deleterious substance that chanced to be collected with honey in some seasons, and he fancied it was "becsome seasons, and he fancied it was "bec-teria." His conclusions as to what the injurious substance is, has not been accepted by others; but the fact that dysentery is attributed to the quality of the honey caten by the bees, is not doubted by in-telligent and experienced apiarists. If acteria sometimes infest samples of honoy it is unsafe to eat it, because the spores might produce as fatal results as follow the enting of trichinous pork, so that honey for table use is attended with more risk of life and health than is the much derided