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

BEETON, ONTARIO, NOVEMBER 18, 1885. Nc. 34

THE CANADIAN BEE JOURNAL. PUBLISHED BY

OL. I.

D. A. JONES & CO., BEETON.

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THE CANADIAN BEE JOURNAL

AND	"Gleanings," semi-monthly,	1.80
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TO CONTRIBUTORS.

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THE CANADIAN BEE JOURNAL.

NOVEMBER



the Canadian Bee Sournal.

1885

D. A. JONES & Co., Publishers.

OUR OWN APIARY.

ODDS AND ENDS.

HIS morning (November 14th) one of our men after mixing up some arsenic, granulated sugar and flour in equal parts, as mentioned on page 451 in "our own apiary" started off to the outside yards to place it in the various bee-houses to destroy all the mice before the bees are set into winter quarters. Small quantities will be placed on pieces of paper and laid in the bee-houses where they can get at it conveniently. This will destroy every one of them in f_{rom} one to three days, and sooner if they find the poison. Next week we ex-Pect to set some of our bees in clamps if weather is favorable. We shall winter the majority of them in our bee-houses, which hold from 150 to 400 colonies. W_e will use the same clamps as last year, and will take the hives from various Portions of the yard, so as to have a fair average, enabling us to test the difference between clamp and in-door wintering pretty well. While we are writing this morning it is snowing and has been since 6 o'clock. This is the first we have had this season and expect it will Not remain with us long as lightning was reported on the evening of the 12th, which is said to indicate open weather for some time. By the way, we wish our friends in northern latitudes,-as ^{Canada,} Wisconsin and Michigan, Maine,-would report to us the date of the latest thunder and lightning in the and the earliest in the spring also whether sheet or chain lightning. For a long time we have noted the latest and earliest dates of the thunder and lightning in fall and spring with the following results. It is generally from three

to six weeks, sometimes longer, after the last lightning before winter sets in, and early lightning in the spring indicates a late backward season. We never like to see thunder storms early in the year. We are of course speaking only of our own locality.

ANOTHER KIND OF CLAMP.

One of our assistants who has been with us for years, and who has also kept a few colonies on his own account has wintered his own bees on the following plan: He selects a high piece of ground usually dry, and sandy, if possible; digs a trench, throwing the earth all to the north or west of the same as the case may be, about two feet deep-sometimes three— and about four feet wide ; along the front and back of the trench he places posts at suitable distances, and on tops of these are placed cross timbers to support the roof, leaving a space between roof and bottom of trench of from three to four feet; then he packs about one foot of straw at back of trench and six inches on bottom; places the, hives on stringers keeping them about six inches above the ground ; next the space from top of hives up to roof of earth clamp is tightly filled with straw and about one foot of straw is placed in Boards, slabs, planks, or timbers front. as the case may be are laid over top of posts, and down back and front of posts to earth. We nearly forgot to mention that there is a board put up in front of hives above the entrance leaving an air chamber in front of hive about one foot wide by ten inches deep, or say a foot square; this air chamber runs the entire length of clamp which in his case is about 100 feet long, and holds about 50 colonies. The air chamber is connected at both ends with an air ventilating pipe which runs about one or two hundred feet from each end of clamp to the east and west giving a direct circulation of air in front of all the hives from outside

no matter which way the wind is blowing, for turnishing a current of pure air all the time. Now this clamp is covered over with earth two feet deep and remains that way until late in the spring when the earth is thrown back, the straw pulled away and the bees allowed to fly until fruit bloom. Cold and unfavorable weather does not affect bees down in this clamp as they are warmly packed all around excepting the front, and the sun shining down on the entrance to the hives makes it much warmer than it otherwise would be. Continuous breeding was carried on late in the spring in this clamp during the three weeks of unfavorable weather when all the bees setting upon the summar stands in the ordinary way ceased to breed, spring dwindling following very much. During that unfavorable weather we examined his bees several times, as he lives about six miles from Beeton, and found them brooding more rapidly than bees ordinarily would in the most favorable weather on summer stands. To examine them he takes hold of the front of a hive draws it forward out of its cosy straw nest, smokes the bees a little, and lifts out the comb. He showed us solid combs of brood that would delight the heart of any bee-keeper, and this at a time when our bees upon their summer stands, were many of them clustered as closely as they are in winter quarters, and had ceased brooding entirely. When there were cold chilly winds and unpleasant weather he just tumbled down the straw in front of the hivespea straw and could easily be removed. This system may come into use largely in northern localities, especially where the bee-keeper does not wish to go to much expense, as the same clamp will do for years.

NORTH AMERICAN BEE-KEEPERS' SOCIETY, at Detroit, Mich., on December 8th, 9th and 10th, 1885. W. Z. Hutchinson, Sec., Rogersville Genesee Co., Mich

FOR THE CANADIAN BEE JOURNAL.

SOME OBSERVATIONS-INTRODUCING QUEENS.

R. D. A. JONES, who is good authority on all matters pertaining to bees, tells his readers that it is no trouble to introduce queens, either virgin or fertile, and yet facts show that there are serious losses going o

account of failure when attempting to introduce queens.

If Brother Jones has discovered a "rule" of procedure that has no exceptions he will certainly confer a great favor on all bee-keepers, except a few experts whose skill and judgment is equal to any emergency that may arise in apiary work, by giving a minute discription of his manner of proceeding when introducing queens both virgin and fertilized.

A. I. Root has frequently said that perhaps one-fourth of all the queens sold by him were I have but little doubt lost when introducing. of his conclusion if his customers follow strictly his "directions" sent out with each queen sold. My experience as a queen breeder warrants me in saying that about fifty per cent. of the queens sold are purchased by beginners and others who are not sufficiently advanced in the science to risk their judgment as to when a queen will be accepted or rejected by a colony of bees. Hence when such persons are "directed " how to proceed, a plain strict rule must be laid down for them to follow till they gain sufficient knowledge of the business, and possess that confidence in themselves that only true knowledge can inspire.

When speaking of a "rule" as to when a queenless colony of bees in a normal condition will accept a queen, we may say that they will sometimes accept her by direct introduction, and more frequently after making her acquaintance twenty-four hours, and with more certainty after Now, if we follow up the forty-eight hours. experiment we will find that we may safely fix the "rule" at seventy-two hours. I claim that by blindly following this rule a mere novice should never fail. It will be seen that no rule as to time, suitable to the inexperienced, can be carried out by the popular plan of caging the queen on a comb. This nothod gives the matter too much into the hands of the bees, as they may release and destroy the queen. For this reason, and for the further reason that it is less labor, I use a cage suitable for placing on top of the frame right over the cluster of bees. My cage is so arranged that when the stopple is removed the bees while appropriating the soft candy with which the cage is provisioned, will release the queen under the most favorable circumstances.

l'ractical apiarists tell us that seventy-two

THE CANADIAN BEE JOURNAL.

hours is too much waste of time in the busy honey season. Very true. But I am not fixing a rule for skilled aplarists, but for the novice. The expert can tell by the behavior of the bees when they are willing to accept a queen, but the novice cannot trust his judgment in so delicate a matter. Time must pay the penalty for lack of experience. Newly hatched queens have an infantile confident way of staggering in among the bees which seems to protect them from harm, or even notice on the part of the vigilant workers. But not so with the pert miss of several days old, her pretentious ways seem to excite the Jealously and envy of the feminine commonwealth, and they proceed to teach her "lessons in manners," and generally wind up the proceedings by murdering her, even at the risk of the extinction of the colony. It requires as much care and skill to introduce • virgin queens of several days old as it does to insure the acceptance cf fertile queens. And to introduce them I proceed in precisely the same way. There is no way to help beginners in this important branch of apiary work but to give a plain "rule" for them to follow till such time as they may have acquired the skill and judgment to introduce a queen by the rule given: Remove the queen to be superceded, and place the cage containing the queen to be introduced, wire cloth down, right over the cluster of bees, and cover with a quilt. At the expiration of seventy-two hours remove the stopple which encloses the food apartment of the cage and leave the bees to release the queen by removing the soft candy with which the cage is provisioned. Do not disturb the bees for several days after the queen is released. If this rule is strictly followed not one queen in a hundred will be lost, no matter what may be the experience of the operator.

If a queen is released too soon, and once "balled," the bees seem to know such a queen ever afterwards, and she is likely to be murdered at any time even if she is apparently received all right. I never had but one queen that was " balled " that afterwards did good service. My experience is the once "balled" queen is ever after a spiritless down-cast slave. I once had a very fine queen that I forced a colony to take against their inclinations, and even after she be gan to lay rapidly some bees might be seen dog-^{ging} her footsteps biting and worrying her as she went about her business. In a few months she Save up the contest. I had reason to believe that she left the hive to die rather than to submit to the indignity she was subjected to.

Christiansburg, Ky., U.S.

G. W. DEMAREE.

would be successful for it appears the only difficulty is to make the queen behave in such a manner as not to excite the bees and cause them to ball her. If young queens, although not all behaving alike, can be introduced as soon as hatched without loss, should we not study to induce old ones to behave in a similar We do not think there is any manner. rule that can be laid down for successful introducing in every instance. The bees, when the queen is liberated, should be as far as possible in the same condition as they are when the queen is passing over the combs depositing her eggs. When bees are excited, or on the alert, as it were, watching for intruders, it is much harder to get them to accept a queen, than when they are in a quiet unsuspecting condition. Some apiarists excite the bees by opening the hives, thus causing them to sting, leaving an odor in the hive. If, with the bees in this condition, the introduction of a queen is attempted, loss is almost certain to follow; or if the bees are disturbed so that they become angry, an introduction should not be attempted. Those who are accustomed to handling their bees roughly do not have much success in introducing. If all the manipulations are in accordance with the required wants of the bees, the introduction of the queen is a very simple matter. We have sometimes thought that it might work well to cage a queen and give her food containing sufficient alcohol to make her stupid so that she would move about like a young queen. While we write this our attention is drawn to a drunken man on the streets, for we are sorry to say that we do have some drunken men in Beeton, the thought just struck us, that if the queen did not behave any better when intoxicated than that drunken man did the bees would scarcely be doing their duty if

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We think chloroform, properly used, they did not kill her.

NOVEMBER

FOR THE CANADIAN BEE JOURNAL. OUR "PAPER"-THE O.B.K.A. "ORGAN."

TRS-Your issue of the 4th inst., is to hand brim full of good things, as is its wont. Mr. Pringle discusses "the organ question"

at length, Prof. Cook furnishes a valuable' and timely paper touching on many points of interest to bee-keepers. Your confrere over the way gives you a bit of his mind on the title of your paper. You made a grand mistake when you named it the CANADIAN BEE JOURNAL. Did you not know that there was a "Bee Journal" published in the most savoury smelling city of the Great United States whose proprietor claims the exclusive right to the title for his paper. Sensible man ! He is not ignorant of the fact that "there is something in a name." Have not the patent medicine men discovered this long ago? And have they not rushed with "doubled neive" at all and sundry who dare strike a label bearing anything approaching the title of their own nostrums? Why did you so far forget the sensitive nature of your neighbour on this matter ? You might have set the Lion and the Eagle pawing and clawing one another by your rashness, you thoughtless man. Maybe you committed the rash act from worthy motives for imitation is said to be the sincerest kind of flattery. If so you missed the mark this time for it is avered that your flattery-or the term journal which ?-has cost somebody several thousand dollars. Flattery that carries with it such results is not usually appreciated. You might as well have been accommodating and called your paper the "Freezeland Apiarist," then everybody would have known it was published mewhere away up amid the eternal snows of Canada. is true a man may commit a wrong without knowing it but if the wrong be pointed out and persisted in there is little hope of the wrong-doer and if it be repeated he is doubly guilty, therefore be advised, and if a son and heir should be born to you in the near future don't for the life of you have him baptised "Thomas G.," for that name is the vested right of another, and therefore not yours to use.

I quite agree with Mr. Pringle that an "official organ " is no longer needed by the O.B.K.A. The C. B. J. supplies all its members need as far as a medium of communication is concerned. would regret to see the journal become the organ of any man or set of men. I prefer to see it remain what it is : an independent bee-paper-beg your pardon, BEE JOURNAL, giving to its patrons value for their money and prospering on its own merits ; but I do not agree with him that no inducement such as referred to should be offered to members. It is true bee-keepers "should not

be babies and require taffy" to induce them to remain or become members of a fraternal association, the object of which is to advance their own interests, but without attending the conventions little personal benefit can result, except such as is common to all readers of the public prints; and it is a well-known fact that not a tithe of the members in former years have attended the society's meetings. Men should not be looked upon as babies because they expect or accept an nducement to identify themselves with an organ, isation having for its object the general good of the class to which they themselves belong. Where there is no direct personal advantage an inducement such as that under consideration is one of the means very generally employed by such societies to secure and hold together their Mr. Pringle will, I think, admit membership. that the members of the Ontario Fruit Growers Association are in no sense of the word "babies," yet they accept with a good deal of satisfaction the taffy they annually receive in the shape of trees, shrubs or flowers by right of their membership and a quid pro quo for the fee they pay. I believe it is frankly admitted by the officers of the Asso ciation that the full list of members could not be maintained if some such inducement were not If this Association, with a much held out. greater number of people interested in their work than the Bee-Keepers' Association can hope to have for many a day, find it expedient to offer some special inducement in order to the maintenance of a good list of members, it is an abso lute necessity on our part to do the same thing if we would save the Association from decay and death. Just what the discount, bonus or taffy should be is a point upon which different people may be expected to hold different views. In my opinion it should be something useful to begin ners and small bee-keepers, as they are largely in the majority professionals will have already nearly everything that can be offered, and will doubtless remain members under any circumstances.

R. McKnight.

Owen Sound, Nov. 11th, 1885.

We were not aware that the words "Bee" "Journal," or "Bee Journal," were patented, copy-righted, or "owned" by any one else or we should not have "christened " our "paper " by the name we did. We had no idea or intention of injuring anyone, and, it any injury has been done, we are quite sure that it is not chargeable to the name, but to the excellent contents of our JOURNAL -for which we do thank its contributors. The success of the CANADIAN BEE JOURNAL, from every standpoint—contributions, patronage, and good will has exceeded our most sanguine expectations, and if it has had the effect of reducing the cost of some bee literature by one-half, it has in that way, if in no other, been of great service to the beekeepers of America, and judging by the hearty support they have given it since that reduction, we believe they have ap preciated that service.

We fully agree with you Friend McK. in regard to the desirability of having in the CANADIAN BEE JOURNAL an independent paper. We have no desire, and so stated at the late convention, to become the official organ of the O.B.K. A., giving our reasons therefor. Our Journal must stand or fall on its own merits.

For THE CANADIAN BEE JOURNAL.

BEE-KEEPING PAST AND PRESENT.

HE history of the honey-bee so far as I can gather goes back to the Revolutionary

War, when my father was a boy and tossed his hat for King George under the glitter of the British officers, boy-like, he and the little darkies amused themselves by sticking their angers in the straining honey hanging at the old Dutch fire place in the cellar kitchen of his standfather on the banks of the Mohawk, Duches county. It would appear that bees were introduced by the early Dutch settlers when New York was called Amsterdam, working their way Northward, notwithstanding the severity of the climate, as far north as our great inland lakes. As early as 1830 bees were plentiful both wild and in a domestic state, and managed successfully by the inhabitants. My memory carries back to the above date when a great calamity came upon the bees in Prince Edward county, where three of my uncles on the banks of East Lake had kept bees in sheds made for the purpose, two of them lost all of their bees, leaving their bee houses and hives empty; they Dever returned to bee-keeping again, not knowing the cause of the great loss that befell them. In time, time bees became more plentiful and in a wild tate were found by the bee hunters, and kept by those supposed to be lucky on long open

stands in board hives with success. Not satisfied, ingenuity set to work and made hives with drawers to be filled with honey, and gables of buildings were used to keep bees in. These proved to be failures. Then the frame hive was taken in hand and bee-keeping as a science became better understood, Langstroth being the first, and after that patent hives were all the rage in this county. The introduction of the Italian bee stimulated a desire for movable frame hives and the science of bee-keeping in general. The experience and the vexation set the inventive powers to work and in 1870 the "New Dominion" bee hive competed with the "Thomas" hive at Montreal where competent judges decided in favor of the former. Artificial swarming and the introduction of Italian queens brought on another disaster in 1872, both indoors and out. Many bee-keepers lost all. On looking around us we found the careless bee-keeper who had kept bees on the "let-alone" princi ple, had succeeded in snow banks without care or expense. "Try again," is our motto. Two stocks were procured of common bees and set on their summer stands, and allowed to remain as long as they chose, doubling their number every year, both in box hives and double-walled frame hives, producing moderately both extracted and box honey up to 1882, a very cold spring, and the season altogether unprofitable to the beekeeper. March 31st, 1883, passed leaving a record of the most constant cold weather for fifty years. Bees were four months exposed to constant cold weather, and very few out of fifty that were in tolerable condition failed, proving that bees are able to stand a great amount of Passing another cold spring into an cold. abundance of fine clover pasturage, we placed them in fine condition to stand the winter then coming upon us. The winter of 1884 was, if possible, more extreme, but bees have survived it all and have procured stores sufficient, notwithstanding an unfavorable summer.

B. LOSEE.

Cobourg, Ont.

BOTANICAL.

NABALUS ALBUS.

HE plant sent for identification belongs to the order compositae, Nabalus Albus, (white lattuce, rattlesnake root, lion's foot,

An elegant plant conspicuous by its stout purplish stem and variously shaped leaves t'ase at the base being triangular—halbert form, sinuale toothed, and sometimes deeply lobed; stem leaves roundish ovate, oblong, undivided, lobes obtuse, the uppermost lanceolate. Scales purplish, corallas whitish, pappus brown. It is

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said that some of the varieties have medical properties and are antidotes for the poison of the rattlesnake. This plant is common throughout Canada and southward to Carolina. Found in moist woods and shady places. Flowers in August. Is a valuable honey plant.

"HERCULES CLUB"

Aralia Spinosa (Angelica tree, Hercules Club). This plant, highly recommended by a correspondent in the C.B.J. for cultivation as a noney plant, is a native of Pennsylvania and south to Florida, and and will be found too tender for our climate except in sneltered places and along the shores of Lakes Erie and Ontario. Many efforts have been made to cultivate the plant for its beauty, but our winters have proved too severe, not further north than the county of We lington.

C. MACPHERSON. Prescott, Nov. 9, 1885.

OVER PRODUCTION.

HE Hon. M. M. Estee, in the Rural Californian writes.

"Who ever heard of too much to eat? The fact is, California has produced so much of everything, and produced it so well, that whenever we do enter into competition with the rest of the world in a new field of industry, after all other complaints are dissipated, we hear the old cry, 'There is too much of it. True, it is good : but you produce too much.' Think of an overproduction in fruit ! Why, there are 50,000,000 pounds of prunes imported into the United States annually. There is no reason why California should not produce them all. How then, can we produce too much wine, if it is good ? but wine, like wheat or fruit, must seek a market. It will not sell itself. Let me remind you there cannot be an over-production of the best of an article. If we make the best raisins, the best wine and the best brandy, and if we can raise the best fruits, these will always sell, because for these things we have the world for a market, but the world must know what we have to sell."

The writer's object was to show that too much wine could not be raised in California. While we are not in accord with the object for which he writes, still the argument as regards wine can be applied to our own business, as producers of comb and extracted honey. If we "make the best honey, it will always sell, because we have the world for a market; but the world must know what we have to sell."

For The Canadian Bee Journal. BEES IN NORTHERN CANADA.

S Mr. C. F. Smith, of Cheboygan, is enquiring how bees have done in Northern Canada I will give my report. The spring of 1885 was at least two weeks later than wills

usual in this locality—we are about 133 miles north of Toronto on the Northern Railway-Coll sequently bees did not breed with their wonted vigor and by the time the queens were in ful swing laying many old bees had died off leaving them somewhat weak in bees. About the 15th of May maples were in full bloom followed by wild cherry, and as the honey comes in fast we were able to extract a little by the 23rd of May. wild raspberry has usually given some surplus during June but this year failed to do 50. that the lull lasted from May till the first week of July, when Alsike clover began to yield and the way they worked on Alsike was something 1 hen wonderiul for the first ten days in July. we had a spell of dry weather when the bees only obtained enough to keep the queens laying Basswood came on with great promise in owing to unsuitable weather for honey st Circling very little was obtained from that source. Canada thistle bloomed well but also failed to give any surplus. Buckwheat followed and the bees were very busy on it for several mornings but all the honey gathered was used in brood raising frost about the end of August cut off most of the fall bloom, and ended one of the poorest seasons we have known for five years. On examining the hives in September many were found with out sufficient stores for winter ; a few had some to spare. Those having less than twenty-five pounds were fed with granulated sugar syrup to make up, to that amount. A summary of the past season is: Took twenty-four out of winter quarters, doubled back to nineteen, increased to forty-two, principally by artificial swarming doubled back to thirty-six for wintering, and obtained twenty-five pound of comb honey and about 800 lbs. of extracted honey, nearly all from Alsike clover.

R. H. SMITH

Falkenburg, Muskoka, November 6th, 1885.

From "Prairie Farmer." MORE ABOUT WINTERING.

HIVES IN THE CELLAR.

A. S. Ill, writes:—I wrote you last winter asking directions for keeping bees in the cellar. I had good success, only for one thing, that was

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dampness causing the loss of swarms. Mold hindered others from doing as well as they should have done. My hives are the Improved Langstroth Simplicity on top of which I can place a haif story, or a whole story, as may be needed. Will you please inform me what to do? I am partitioning off room in my cellar, as you directed me last winter. It will be 16 by 18, feet with one window, and by opening door in partition can get others.

REPLY.-I should think the difficulty with this cellar is lack of proper ventilation. Honey without bees in some cellars will get watery, burst the cappings, and ooze from the comb. Bees bave wintered well in cellars in which there is a flowing spring; the water no doubt purified the atmosphere. I have often thought that the cellar in which bees are stored might be too dry, being in sandy soil upon high ground. Before this cellar had sub-earth ventilation, mold would grow upon the walls been admitted from the bottom, the mold ceased to form. I would not like to dispense with this ventilator, if no bees were stored there, for the air is so huch purer-no musty smell or mold. $\mathbf{D}_{\mathbf{A}}^{\text{cd}}$ purer—no must, characterist of the $\mathbf{L}_{\mathbf{A}}^{\text{cd}}$ Jones, a prominent apiarist of the Dominion of Canada, claims that these ventilating pipes sught to be laid below the frost line, and extend 100 ft. from the sold air will mothe cellar, so that the cold air will moderate before entering it. This may not be necessary in all climates. Six inch the answers the purpose very well, and the out-door opening should be covered with wire gauze to prevent mice or rats from entering the cellar; the indoor Opening can be covered up, if the temperature gets too low for safety of the bees in severe weather.

I do not think that opening a window for the air to escape is just the right sudden a change; a stone pipe extending down to about 6 inches from the floor, and entering a flue above, or better still fore connecting with a pipe where there is a draught, drawing off impure air. I inches square, opening into the cellar were elbows, so that no light entered.

A cellar so constucted that it would be a healthful abode for human beings, with the exception of sunlight, and kept at an even temperature of 45° , would be as nearly right as possible for bees. In order to keep the temperature at this point, the size of the cellar should correspond to the number of colonies stored. A bench, or a frame work of scantling, a foot or so from the floor to set the hives upon, is a good thing. Let the floor be cemented or paved, so the dead bees can be swept up, and taken out occasionally; if they are permitted to lie there all winter and decay, the noxious gases will enter the rooms above, causing a disagreeable stench unhealthy for the inmates.

WHEN TO PUT INCELLAR.

A bee-keeper must be governed by the latitude his appary is in, with reference to the time of putting bees in the cellar. By a vote of the North-western Convention last year, it was decided that November was too soon to store them. Last season our's were stored December 1st, and two weeks of fine weather followed, when bees that were upon the summer stands flew many days. Experience teaches us that it is better to store late, and then keep them there until warm weather comes to stay. When the bees are to be carried into the cellar, I fasten them in until the next day, in the meantime leaving the cellar ventilators open. When the bees are quiet, the hives are opened. Don't confine the bees to their hives in the cellar, but leave fly entrances open, and the frames covered with "comforts," or better, with woolen blankets.

Mrs. L. HARRISON.

Peoria, Ill.

INTERESTING ITEMS

IN CONNECTION WITH OUR PURSUIT.

HE Golden Jubilee of the great bee-master Dzierzon will be celebrated in Germany during the coming year.

Italian bee-keepers have just had a large and interesting convention at Milan, at which Mr. T. W. Cowan, editor of the *British Bee Journal* was present.

QUERIES AND REPLIES.

UNDER THIS HEAD will appear each week, Queries and Replies; the former may be propounded by any subscriber, and will be replied to by prominent bee-keepers, throughout Canada and the United States who can answer from experience, as well as by the Editor. This Department will be reserved for the more important questions, others will be answered in another place. We hope to make this ne of the most interesting departments of the JOU RNAL.

DIFFERENCE BETWEEN FERTILE QUEENS AND DRONE LAYERS.

QUERY NO. 43.—1. How do you tell a fertile-queen from a drone-layer? (2.) What difference is there between a drone-laying queen's mode of laying eggs and that of a fertile worker? (3.) How do you tell the difference in the eggs before they hatch?—J.

G. M. DOOLITTLE, BORODINO, N.Y. — Never had a drone laying queen in my life so an answer would be mere presumption.

R. MCKNIGHT, OWEN SOUND, ONT. — Some one who knows more of drone laying queens than myself must answer these questions.

DR. A. B. MASON, WAGON WORKS, O. -(1)By her progeny, or by a microscopical examination of their eggs. (2) Have had no experience with drone laying queens.

O. POPPLETON, WILLIAMSTOWN, IOWA.--(I) Cannot tell by any difference in the queens.
(2) None that I have ever noticed. (3) Cannot tell except with the aid of a powerful microscope.

M. EMIGH, HOLBROOK, ONT. — (1) By the work she does. (2) One is liable to fill a cell half full of eggs, while the other usually lays but one egg in each cell. (3) By the way they are placed in the cell.

H. D. CUTTING, CLINTON, MICH.—(1) From the brood when hatched. (2) A fertile worker places the eggs on the side of the cell, while a drone laying queen puts them on the bottom. (3) I don't believe I can.

B. LOSEE, COBOURG, ONT.—(I) Couldn't tell the difference. (2) Queens laying drone eggs only, lay them regularly; fertile workers irregularly. (3) Fertile workers mis-place them; queens lay them regularly and all queens look alike.

DR. C. C. MILLER, MARENGO, ILL.—(I) You can't tell them apart till their brood is capped over. (2) A laying worker lays irregularly, perhaps several eggs in a cell and prefers drone cells. (3) You can't unless by the irregular laying.

S. CORNEIL, LINDSAY, ONT.—(I) By her progeny. (2) I have had very little experience with fertile workers. Both place the eggs in the cells irregularly, in different positions and often several eggs in the same cell. I do not know of any characteristic difference between their modes of laying eggs.

PROF. A. J. COOK, LANSING, MICH. — It were better to ask, How do you tell an impregnated queen from one not impregnated? The eggs from the latter will produce only drones. Can only be done by aid of the microscope, and is quite too difficult then to be of practical value even with the expert microscopist not to say the common bee-keeper.

H. COUSE, THE GRANGE, ONT.—(I) Fertile queens are generally much larger than drone layers, the latter being not fully developed, the abdomen being more tapering. (2) Fertile workers place their eggs here and there and a number in a cell, while the drone laying queen places her's more uniform. (3) Have not observed any difference.

S. T. PETTIT, BELMONT, ONT.-(I) So far as my observation goes I can tell for a certainty by their progeny. The extremity of the abdomen of a drone layer is comparatively large while the other parts of the abdomen seem slack, small or poorly filled. Some queens that lay mostly drones are extremely large. (2) Don't know. (3) Cannot tell.

ALLEN PRINGLE, SELBY, ONT. — The fertile queen is distinguished from the virgin by fullness and enlargement of the abdomen, by slower movements, and a greater degree of self-possession. (2) The distribution of the eggs by a fertile worker is less regular in the cells. (3) Whether microscopic examination would reveal any perceptible difference deponent saith not.

J. E. POND, JR., FOXBORO, MASS. — I have never been able to see any difference in the whole matter involved in this question, except so far as results are concerned. Some claim to find a slight difference in size; in the way and manner the queen deposits her eggs, and the position of the eggs in their cells. I have not been able to find any difference of the kind great enough to be appreciable to my eyes. I would pay a hand some bonus to any one who will give an answer to the above containing a sure and certain method of determining the matter involved.

DR. DUNCAN, EMBRO. — (I) A fertile queen lays her eggs more regular, one in a cell where drone layer often lays more than one in a cell; be latter is smaller in the abdomen and not so the smaller in the case. (2) If a drone yer from old age, she lays quite regular, one in Cell, if a young unfertilized queen there is the more than one in a cell. A fertile Worker lays sometimes two or three in a cell, and Ratters them promiscuously in and around the the sides of the cells. (3) No apparent differthe in the eggs only in the order in which they the deposited, and the capping is elevated and the capping is elevated and the rese in all drones before they emerge from the cells.

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P. H. ELWOOD, STARKVILLE, N.Y. - (1) By their work usually. Sometimes there is a differthe "ork usually. Sometimes the diff. (2) I don't know. (3) I don't tell the difference. I have never seen a fertile worker athough I have been looking for one for half a Core of years. In several thousand swarms \mathbf{h}_{ade} queenless by our method of raising honey bave observed no eggs laid except by queens. In breaking out queen cells when queenless for a week very many stocks will raise queens from the unsealed larvæ. Such queens are good enough to lead off swarms and to make considetable trouble at home. They preserve so much $\mathfrak{A}_{the}^{trouble}$ at nome. They prove $\mathfrak{A}_{the}^{trouble}$ queenly appearance that the experienced eye need never confound them with workers. In Cool weather the same state of affairs may oc-Casionally present itself after being queenless for eight days.

G. W. DEMAREE, CHRISTIANSBURG, KY.-(1) here is no way to distinguish a drone (egg) bying queen from her fertile sister except by her progeny. I have had two or more queens latu none but male producing eggs that were uply superb queens as to size, form, color and ualestic carriage and deportment. I kept one of Wese queens that had every opportunity to mate when of the proper age, during the summer, and torce by supplying her with young workers from other **Other** ^{Colories}, and with all this trial she produced **Other** only male progeny. (2) These queens perform ${{{{\bf{b}}_{elr}}} ^{(4)}_{elr}}$ work just as do the fertile queens. (3) With such queens as I have described you must wath **Wait** till the brood is capped to distinguish the **be** the brood is capped to the start and do $\begin{array}{c} \underset{lay}{\text{Will }} & \underset{lay}{\overset{\text{Once in a great while a young -}}{\overset{\text{Once in a great while a young -}} \\ a_{Wk_{11}} & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a great while a young -}} \\ & \underset{\text{output }}{\overset{\text{Once in a young -}}} \\ & \underset{\text{output }}{\overset{\text{Once in a young -}} \\ & \underset{\text{output }}{\overset{\text{$ $\mathbf{a}_{\mathbf{W}_{\mathbf{W}}\mathbf{W}_{\mathbf{W}}\mathbf{a}_{\mathbf{T}_{\mathbf{G}}}}$ is drone eggs at the state of th aright afterward.

APICULTURE COMMERCIALLY.

 V_{th} No. 42.—In the March No. of the American Apiculturist I asked five Questions to which two replies were

which was to the point but the conditions between California and Ontario being somewhat different his views might not be applicable here; the other by Mr. Demaree is somewhat unique inasmuch as he thinks "a bee-keeper does not need as high a salary as a first-class clerk." As neither of the replies hits the nail squarely on the head I beg space to repeat the questions and solicit replies through the C. B. J.

Charging for salaries for work (1.) done, for necessary expenses, and for depreciation in the value of accessories. does bee-keeping pay?

(2.) If yes then suppose a specialist having a fair field for operations where basswood is fairly plentiful, say in some line of railroad where his apiaries could be located about every four miles, and running them say for extracted honey at 10 cts. per pound, how many colonies would he require to have to ensure him an average salary of a first class clerk, or say from \$1000 to \$1200 per annum over and above expenses and depreciation?

How many assistants would he (3.)require during the honey yield to operate these colonies successfully?

Given a first class hive and fix-(4.) tures, how many colonies could one man examine and extract honey from in a day of ten hours hard work?

(5.) With proper assistance how many colonies run for extracted honey could an apiarist successfully oversee ?--Apis Canadensis.

DR. J. C. THOM, STREETSVILLE, ONT.-I have never "ben thar" and don't consider myself capable of giving an answer without using more "ifs" than might be satisfactory to the enquirer.

PROF. A. J. COOK, LANSING, MICH .-- (1) Yes, if carried on wisely. (2) In our best locations 100 colonies, if he were a real "bee master." (3) Very little. (4) 25 to 30 easily, (5) Mr. Jones must answer this, or Cap. Hetherington.

DR. A. B. MASON, WAGON WORKS, O.-(1) It depends upon the man. (2) From twenty to seventy-five. (4) Almost ad infinitum. (5) With proper assistants an experienced apiarist could oversee thousands of colonies.

DR. C. C. MILLER, MARENGO, ILL.-(1) I can only answer the 1st question and to that I given, one by Arundell, of California | in all cases, but is the true one in my own case, answer "No." This answer may not be correct

based on an experience of 24 years, the last 7 being spent solely in beekeeping.

M. EMIGH, HOLBROOK, ONT .- (1) Yes, if properly managed. (2) 150 colonies to be kept in one apiary. (3) One assistant for six weeks only. (4) About fifty. (5) Six apiaries of 120 colonies each.

G. M. DOOLITTLE, BORODINO, N. Y .-- (1) Not at present prices of honey. (2) As extracted honey is now selling, delivered in New York city at 61 cents, I again say it could not be made to pay. (4) Not over 20 on an average. (5) Perhaps 500 to 1000.

DR. DUNCAN, EMBRO.-(1) It pays if properly managed and in a good locality. (2) The basswood is a failure some seasons where it is plentiful. It would depend on fruit and clover blossoms. He would require three or four hundred colonies. (3) He would require two good assistants. (4) About 20 is a good day's work; if honey capped about 12. (5) Probably he might oversee from 500 to 1000. The editor can answer this query best of all.

H. D. CUTTING, CLINTON, MICH .--- (1) Not always. (2) 150 colonies, but would advise the addition of 100 more to cover the last word in No. 2. (3) The less assistants a man has the better; do it yourself if possible. (4) Depends on a great many conditions. I know of one man that will work hard all day and not get through with 20 colonies and another that will go through 100 in ten hours. (5) With proper assistants how many could he not oversee?

ALLEN PRINGLE, SELBY, ONT .--- (1) Yes, successful bee-keeping pays. (2) Presupposing first rate management, a good average season, and moderately fair price for surplus stock or increase, 100 colonies would do it. (3) If he be thoroughly competent, active and expert himself, one assistant will be amply sufficient. (4) Under the conditions named I think I could go over from 50 to 75. (5) If we take the phrase "proper assistants" for all it is worth a proper overseer could I should think oversee about 10,000.

P. C. DEMPSEY, TRENTON.-(1) Yes. I have known a lady with 40 colonies spring count Ito sell \$600 worth of honey and double her stock, not counting the honey used by the family. (2) Within four miles of where I write one beekeeper attends about 100 colonies and usually sells from one to six tons of honey and only occu ies about our months of his time during the year. He also has a large number of bees to sell and sells them besides a large number of queens. Sold : 4 tons honey at 10c. per lb, \$800.00;

80 colonies of bees at \$10 per colony, \$800.00 500 queens at \$1.00 each, \$500.00.

S. T. PETTIT, BELMONT, ONT.-(1) I think about one in every fifty who try bees make it pay and the other forty-nine lose time and money at it. (2) I could not answer that question. Why say ten cents per pound? What guarantee have you for that price in large quantities one year after another? We should not mislead. This would (3) Don't know. (4) Don't know. depend largely upon how much the bees troubled with swarming and also upon your mode of doing things. If the honey were capped a would take twice as long as to throw it out in a raw green state. (5) Don't know. I feel inclined to say that a few years actual experience will answer these questions for such individuals much better than we can.

S. CORNEIL, LINDSAY, ONT. - (I) An accurate answer to this question requires closer book keeping than is usually done by those who learn the business by making blunders and then correcting them. I think it pays when the business is once learned. (2) I would rather undertake to make \$1200 by keeping only one yaid and would not want more than 120 first class color nies. (3) I have an assistant who could do the work himself. (4) A first class man having everything in readiness before the flow commences, can run irom 126 to 150 stocks for all they are worth. (5) Don't know. Depends on his ability to manage men as well as bees.

G. W. DEMAREE, CHRISTIANBURG, Ky.-(1) I answer yes, if you compare bee-keeping with other rural pursuits. (2) If I was getting and or \$1200 per annum and liked the business, and it did not injure my health or morals, I would not give it up for a rural pursuit. There would be no necessity for taking the risk of making the Bec-keeping as a business can be utilized only by those who are adapted to the business. And to such, and only such, it will pay as well as other rural pursuits. Perhaps 200 colonies in the hands of a practical he keeper would insure an income equal to the amount you name. (3) One smart boy in addition to his own labor, with a little extra help in times of the times times of "pinch," would enable the apiarist to pull through. (4) About twenty. (5) It would depend on the capacity of the apiarist. About three apiaries of 100 colonies each would be enough for most men.

H. COUSE, THE GRANGE, ONT. -(I and 2) I would advise the writer to have considerable practical experience before he may expect said amount clear of expense annually, better try a

few colonies and work up, rather than a great number and then have to work down. (3) During the extracting season in a large apiary the apiarist should have one or two boys to carry combs, one to uncap and one to extract while he season he should do nearly all the work. (4) This depends on circumstances. When there is but little honey in the hives a great many could be extracted, but if the hives are full I don't think he could do so many. (5) If the writer means proper assistants to do the extracting I would say from 100 to 150 colonies spring count, in an average season if the apiarist is expert.

J.E. POND, JR., FOXBORG, MASS.-(1) I have Never kept bees except as a matter of recreation, but I have kept 50 colonies and even more at times. My locality is not up to the average, as We have a short season of white clover and no basswood. I have kept a strict cash account at times and have found beekeeping with me to pay **Well** (2) Presuming him to thoroughly understand the business, and attend to it faithfully from 175 to 200 colonies, provided he could **market** his honey from 12 to 200. per lb. for comb and from 10 to 12 for extracted. (3) He should need but one man and a boy during the height of the season; a boy the year round. (4) I don't know. It would depend largely upon the man, the condition of the hives, etc. (5) Ordinarily from 1000 to 2000, but this will depend **upon** the man. One could oversee 2000 while another would be lost with 200.

P. H. ELWOOD, STARKVILLE, N. Y.-This is a hard set of questions. We have all heard of the old ^{man} teaching his grandson his letters. When he came to one he didn't know he would say "this is a hard one, we will skip him." (1) At present prices bee-keeping doesn't pay with **hine-tenths** of the bee-keepers. (2) At present prices, perhaps four hundred if well managed. y_{nn} (2) Not You needn't expect 10 cents per pound. (3) Not any, Chas. Dadant & Son have a man who takes care of 400, and it would not be courteous to suppose a smart Canadian would do less. (4) W_e will skip this one; there is so much different from the second secon difference in men and in the number of combs in a b_{ive} and the amount of uncapping, etc. We heard of a smart girl who once extracted 1000 **pounds** in a day, and probably a man ought to $\frac{1}{2}$ do half as much when he works hard. (5) Sev e_{ral} thousand, if he has the executive ability of a $C_{a_{rac}}$ Capt. Hetherington.

0. O. POPPLETON, WILLIAMSTOWN, IOWA.- i_{fe} , r_{es} , many men make more of a success in b_{fe} by keeping bees than they would do at any

business on a salary of \$1000 or \$1200 per annum. (2) This question can be answered by each one for his own location only. The result in my apiary has been an average annual yield of about 108 lbs. per colony, spring count, during the past twelve years. If honey would bring ten cents per lb. I would need about 200 colonies to insure me the average annual income specified over and above expenses of the business and depreciation. (3) One competent assistant for four months, June 1st to Oct. 1st, and two lady assistants for a month or six weeks would be amply sufficient. (4) From 10 to 20 according to facilities and methods of management. (5) Some men can successfully oversee hundreds of assistants, while others seemingly of equal abilities otherwise, cannot successfully oversee a single workman, therefore any answer to this question would be pure theory, and is not wanted. These questions of Apis Canadensis cover a large field and cannot be satisfactorily answered in this department, a long article being required for that.

R. MCKNIGHT, OWEN SOUND, ONT.-(1) There are two sides to the first of these questions which admit of two answers, Yes and No. just as there are two sides to the question "Does farming pay?" After deducting the wages of hired help, necessary expenses and depreciations in the value of implements, buildings, etc., we all know it does and it does not. Whether the result is a gain or a loss to the proprietor depends very much on his own capability. In like manner it will depend upon the capability of the beekeeper whether he made it a paying or a losing business. (2) If he be a specialist, which implies a special adaptability for beekeeping as well as a thorough knowledge of it, he ought with from 150 to 200 colonies average a profit of \$1,000 a year. (3) Two boys would fill the bill. (4) One man alone cannot with profit or satisfaction extract. Even with assistance, the number gone through in a day will depend on the quantity of honey each contained, whether the comb was capped or uncapped, would make the difference of work of one hand-twenty-five minutes would be an average time to allow for taking out and returning the combs of a hive (5) With the assistance of a couple of boys in the busy season, 200 hives might be successfully manipulated.

By THE EDITOR.—(1). It most certainly does when properly managed. (2.) From one to two hundred, according to location and management; less would frequently do. (3.) One man will

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care for 100 colonies by having one or two little boys or girls to assist for a few days in the extracting season. (4.) From twenty-five to fifty. (5.) From 500 to 1000 colonies it you have good assistants.

SUNDRY SELECTIONS

BEES IN ROOT HOUSE-TRANSFERRING.

GEO. COOK.-I would like to ask you a few questions for I know you to be very obliging by answering them. Is a good dry root house good for bees; if so, do they want chaff under them or over them or a good blanket over the top of them? Mine are box hives. Would your feeders do for these, or how could I get the bees into frame hives and when is the best time to do it and how?

Collingwood, Ont., Nov. 2, 1885.

Yes, a good dry root-house if properly ventilated would be a good place to winter bees. The temperature should be kept at about forty-five degrees if kept at that point they would need no chaff or sawdust around them. It would have to be covered with earth, sawdust, manure or some other material to keep it at that warmth.

Our feeder would do on box hives just as well as on frame hives, the only difference is that you would have to bore a couple of augur holes in the top to let the bees up to the food. The feeder would protect itself from outside bees. You will see instructions for "transfering," in back numbers of the CANADIAN BEE JOURNAL or in any of the latest editions of the various valuable works on We would prefer not to transfer bees. until fruit bloom next spring.

ABEL GRESH .--- My bees have filled their combs with honey from Golden rod and fall bloom, and have it capped down to bottom bars of frames. Is it safe to go into winter quarters in this condition, having no empty combs to cluster on, and is such honey a safe winter food.

If you raise the combs sufficiently high from the bottom board to allow the bees to cluster under them and pass up as they consume their stores, or if the combs are far enough apart to allow the bees to cluster on the bottom board and part way up the comb, all will be right.



November

BEETON, ONTARIO, NOVEMBER 18TH

The bee-keeping friends around Simcoe are holding a convention; we will have a report of it for the JOURNAL.

British bee-keepers are bound to have a weekly journal and their wish is likely to be gratified soon, as the British Bee Journal has the matter under consideration.

ANOTHER KIND OF CEMENT.

A cement that will attach labels to metals can be made by taking ten parts of gum tragacanth mucilage, ten parts of honey and one part of flour.

On page 501, in friend Corneil's article on "Problems in Connection with the wintering of bees" -- the words " of sugar " should have been written after "ten pounds" on the third line. In reading it please add these words.

We learn that Mr. T. B. Blow, Welwyn, Herts Co., Eng., has just returned from a visit to Friend Benton, at Munich, Germany. bably he may give us a short account of bis trip. It would be interesting to all.

GLEANINGS FOR 1886.

Friend Root is not content with Gleanings at present size and will add next year several pages every other issue. It is with pleasure we note this fact, because we can't any of us have too much of a good thing, and we can say that ..good Gleanings is always overflowing with things." We hope Friend Root will excuse for saying just what we think, and we hope too that Gleanings may reach away beyond its present good circulation during the coming year.

CORRIGENDUM.

On page 505 in issue of Nov. 5th, the types made Prof. Cook say that "Bees should never go into winter quarters with less than fifty pounds of food, etc." It should have read "Bees should never go into winter quarters with less than thirty pounds of food, etc." The error was unintentional. Will Friend C. kindly excuse it?

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" BEES AND BEEKEEPING."

Through the courtesy of the author we have Neceived the first three monthly parts of this the first three montains reaction. That $\mathbf{M}_{\mathbf{r}}$ Cheshire has given the matter a most carety study, none who read what has already been witten will deny. The portions of the work thus far received treat principally of the anatony of the honey-bee and the well executed stavings representative of the different parts of the structure, highly magnified, will prove of the sub-Buch value in the better understanding of the subbet treated. The letter press is highly credit-We to the publisher. The whole volume will be completed in about nineteen parts, and if the part is as full of interest as those already Received, Friend Cheshire may well feel proud of the mission he has undertaken, and the best banks of the beekeeping public bis just due. will be March equal in our currency to 14 communication will shortly be able to supply those who would in them. The price of each part is

HONEY MARKET.

There is no material change in the market. Demand is slow for manufacturing purposes, while a state of the state while trade is fair in comb and extracted honey Agile trade is fair in comb and extracted noncy boney table use. Arrivals are good. Extracted to quality. Choice comb honey 14 to 16 cents is the jobbing way. Home demand for beeswax Vellow on arrival Yellow on arrival.

C. F. MUTH

BLAKE & RIPLEY.

Cincinnati, Sept. 12, 1885.

Honey is selling very well but prices are very buy, and we are often obliged to shade our Prices We quote I lb. prices in order to make rates, **Somb**, 14 to 16 cents. 2 lb. comb, 12 to 14 cents, Extracted, 6 to 8 cents.

	1. 21, 1885.	
	ADVERTISE	DENTS.
t t	Parchasing articles adve dan Bee Journal" pies aper you saw the adve sers always wish to ku- rats are most effective.	rtisement. Adver
F	ive Per Cent.	Discount.
7 E.E.S	all goods which may be orde ason we will give the above luce early orders and in case this season, you could save a discount by ordering ALL T en till further notice.	red now for use next discount. This is to
- uu		

COMB HONEY PACKAGES.

THAT HOLD SECTIONS OF HONEY 44X44 IN.



We call these in our price list "Honey Boxes for Sections." Each box has a nice tape handle, and when adorned with labels "A" or "B," which are made to fit this package,they look exceed-ingly attractive. The price for boxes is: per 1000, \$20.00; per 500, \$12.50. The price of labels will be, extra, per 1000, \$3.50; per 500, \$2.00; per 100, 45. In the blank space at the bottom of label (see cut) is room for nameand address of producer, and nat the following extra charge.

these may be printed in at the following extra charge. Per 100, 30c.; each subsequent 100 to 1000, 12c.; per 1000, ≤ 1.25 . Sample boxes, labelled, sent on receipt of a se. stamp.

D. A. JONES, Beeton, Ont.

BEESWAX WANTED.

We will pay 30 cents per pound in trade for good yellow Beeswax, delivered at our R. R. station. Give us a trial order and see if we do not please you. J. B. MASON & SONS, Mechanic Falls, Me.

FOR RETAILING HONEY

Our Paper Box is The

Cheapest In The World.

\$9 per 1000; printing, 50 cents extra. Large discount on big orders. Send stamp for samples discount on big orders. and illustrated catalogue.

ASPINWALL & TREADWELL,

16 Thomas St., New York,

FEEDERS!
Those who require to do feeding will find it to their advantage to have some of our
CANADIAN BEE FEEDERS
You can feed 15 to 20 pounds of syrup in one night, and there is no danger of robbing. The price is low, and the sale is very active. Our factory is run- ning on them at the present time.
Made up, each
We can guarantee that they will give satisfaction. D. A. JONES, Beeton, Ont.

J. P. CONNELL, Hillsboro, Hill Co., Texas, can fill orders tor **Pure Italian Queens** by return mail. Untested Queens, \$1.00. Tested Queens, \$2.00. Send me your order and send for my circular of Queens, Nuclei and bees by the pound.

1885

NOVEMBER

