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VOL. II, NO. 7,

1886

MAY 12.

PUBLISHED EXCLUSIVELY IN THE INTERESTS OF THE HONEY PRODUCER

THE CANADIAN



JOURNAL

APR 26 1874

THE FIRST \$ WEEKLY IN THE WORLD  
BIBLIOTHEQUE NATIONALE

ONE DOLLAR PER YEAR

THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER

PUBLISHED BY  
JONES, MACPHERSON & CO.  
BEETON ONT.

GRANT LITHO.

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We will always be glad to forward sample copies to those desiring such.

Send us the names of three subscribers with \$3 in cash and receive as a premium one C. B. J. Binder.

Send postal card for sample of leaflet, "Honey, some reasons why it should be eaten."

The CANADIAN BEE JOURNAL will be continued to each address until otherwise ordered, and all arrears paid.

Subscriptions are always acknowledged on the wrapper of first number after receipt.

American Currency, stamps, Post Office orders, and New York and Chicago (par) drafts accepted at par in payment of subscription and advertising accounts.

ERRORS. — We make them: so does every one, and we will cheerfully correct them if you write us. Try to write us good naturedly, but if you cannot, then write to us anyway. Do not complain to any one else or let it pass. We want an early opportunity to make right any injustice we may do.

We can supply Binders for the JOURNAL 55 cents each, post-paid, with name printed on the back in Gold letters.

Subscription Price, 10c per Annum Postage free for Canada and the United States; to England, Germany, etc., 10 cents per year extra; and to countries not in the postal Union, 1.00.

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| AND "Gleanings," semi-monthly.....        | \$1.75 |
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## TO CONTRIBUTORS

Communications on any subject of interest to the Bee-keeping fraternity are always welcome, and are solicited. Beginners will find our Query Department of much value. All questions will be answered by thorough practical men. Questions solicited.

When adding in anything intended for the JOURNAL do not mix it up with a business communication. Use different sheets of paper. Both may, however be enclosed in the same envelope.

Reports from subscribers are always welcome. They assist greatly in making the JOURNAL interesting. If any particular system of management has contributed to your success, and you are willing that your neighbors should now it, tell them through the medium of the JOURNAL.

## ADVERTISEMENTS.

### WE CLUB

|                                       | Price Both. | Club   |
|---------------------------------------|-------------|--------|
| THE CANADIAN BEE JOURNAL and.....     |             |        |
| Cook's Manual (cloth).....            | \$2.25      | \$2.00 |
| A B C in Bee Culture (cloth).....     | 2.25        | 2.00   |
| Quinby's New Bee-Keeping (cloth)..... | 2.50        | 2.25   |
| Alley's Handy Book (cloth).....       | 2.50        | 2.25   |
| Langstroth on the HoneyBee (clh)..... | 3.00        | 2.75   |
| Heddon's Success in Bee Culture.....  | 1.50        | 1.40   |

## "Foul Brood"

### Its Management and Cure.

BY D. A. JONES. NOW READY.

This little pamphlet is presented to the Bee-Keeping public with the hope that it may be the means of saving infected colonies from death by fire and otherwise. No expense is required to successfully treat the disease, other than the little time required for fasting.

Price, 10 Cents. By Mail, 11 cents.  
JONES, MACPHERSON & CO.,  
Publishers Beeton, Ont.

## MUTH'S HONEY EXTRACTOR.

Is second to none in the market. Square Gears. Honey Jars, Tin Buckets, Langstroth Bee Hives, one-piece Sections, etc., etc.

Circulars mailed on application. Send ten cents for "Practical Hints to Bee-Keepers." Address

CHAS. F. MUTH & SON,  
976 and 978 Central Avenue, Cincinnati, O.

## ITALIAN QUEENS.

### REARED IN FULL COLONIES.

Untested, \$1.25 to June 1st, after that \$1.00. Tested, double above prices. A few black and hybrid at twenty to fifty cents each. Also bees by the lb. nuclei and full colonies. Will guarantee safe delivery and satisfaction in every case.

I. L. PARKER,  
Tracy City, Tenn.

## THE BEEKEEPER'S LIBRARY.

We keep in stock constantly and can send by mail post-paid the following:—

BEEKEEPERS' GUIDE OR MANUAL OF THE APIARY, by Prof. A. J. Cook. Price, in cloth, \$1.25 paper, 1.00

A. B. C. in BEE CULTURE by A. I. Root. Price, cloth, 1.25 paper, \$1.00.

QUINBY'S NEW BEEKEEPING, by L. C. Root Price in cloth, \$1.50.

THE HIVE AND HONEY BEE, by Rev. L. L. Langstroth. Price, in cloth, \$2.00.

HONEY, some reasons why it should be eaten, by Allen Pringle. This is in the shape of a leaflet (4 pages) for free distribution amongst prospective customers Price, with name and address, per 1000, \$3.25; per 500, \$2.00, per 250, \$1.25; per 100, 80c. With place for name and address left blank, per 1000, \$2.75; per 500, \$1.70; per 250, \$1.00; per 100, 50c.

FOUL BROOD, ITS MANAGEMENT AND CURE by D. A. Jones. Price, 11c. by mail; 10c. otherwise.

BEEKEEPERS' HANDY BOOK, by Henry Alley. Price, in cloth, \$1.50.

A. B. C. IN CARP CULTURE, by A. I. Root, in paper 50c.

SUCCESS IN BEE CULTURE as practised and advised by James Heddon—price in paper cover, 50 cents.

## ODD SIZED SECTIONS.

We have a lot of about 5,000 one-piece sections which were cut slightly too large for the cases for which they were intended, and as they are an odd size (1 1/4 x 1 1/4 one-nine-sixteenth) we will sell them at five dollars per thousand, to any one who can use them, and will take the lot. Perhaps some of you use that size, if so, let us hear from you, and we will send a sample. They are nicely made, and are cheap at that money.

THE D. A. JONES CO. (LD.) Beeton, Ont

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## W. Z. HUTCHINSON,

In order to more fully supply the wants of his customers, has entered into partnership with his neighbor, R. L. Taylor, and will offer for sale bees (full colonies, or by the pound), queens, Given foundation, white poplar sections, hives, cases, feeders, empty combs, etc., etc. Also bees' eggs, for hatching, of three varieties. For circular and price list, address

W. Z. HUTCHINSON,  
Rogersville, Genesee Co., Mich.

## HEAD \* QUARTERS

IN THE SOUTH FOR EARLY NUCLEI & QUEENS.

Four frame nucleus, with pure Italian Queen, in April. 4 Three frame nucleus, with pure Italian Queen, in April \$3.50 Two-frame nucleus, with pure Italian Queen in April, \$3.00. After 15th May, 25c. less. I would advise the four-frame nucleus as giving the best result.

Italian Queens—untested in April, each, \$1.25, per doz., \$13. From 5th May to 1st June, each \$1.10, per doz., \$12. After 1st June, each \$1.00, per doz., \$10. Tested, \$2.50 ea. Selected Tested, \$3.00 each. 50 cents less after June 1st. Bees by the pound, in lots of five pounds and over, \$1.00 per pound, no queens; if queens are wanted add price of queens. Safe arrival and satisfaction guaranteed. Discounts, 3 per cent on orders of \$50 or over; 5 per cent on orders of over \$100. Illustrated catalogue now ready. Address

E. L. VIALON,  
BAYOU GOULA, Louisiana

## Queen City Oil Works!

The Highest Honors and Gold Medal For Our

## PEERLESS OIL,

Manufactured only by

SAMUEL ROGERS & CO.

Toronto, Ont

## BARNES' FOOT-POWER MACHINERY.



Read what J. I. PARENT, of CHARLTON, N. Y., says—We cut with one of your Combined Machines, last winter, 50 chaff hives with 7-inch cap, 100 honey-racks, 500 broad frames, 2000 honey boxes, and a great deal of other work. This winter we have double the amount of bee-hives etc., to make and we expect to do as well this saw. It will do all you say it will." Catalogue and Price-list Free. Address, W. F. & JOHN

BARNES, No 472 Ruby St., Rockford, Ill.

## ITALIAN BEES IN IOWA.

60 cents to \$1 per lb. Queens 30 cents to \$2.50. Nuclei and full colonies. Order from my new circular.

OLIVER FOSTER,

Mt. Vernon, Linn Co., Iowa.

## EASTERN BEE HIVE FACTORY,

Especially adapted for manufacturing all kinds of

## APIARIAN SUPPLIES.

Having fitted up with new machinery, designed and built expressly for this work, my facilities are unsurpassed for doing fine and accurate workmanship. For full particulars and low prices, send for my Illustrated Catalogue of

## SUPPLIES, BEES, QUEENS,

And a sample of the Celebrated Poplar Sections free on application. Mention this Journal.

E. L. WESTCOTT,  
Fair Haven, Rutland Co., Vermont.

## Bee-Hives, Honey-Boxes, Sections.

Largest Bee-Hive Factory in the World.

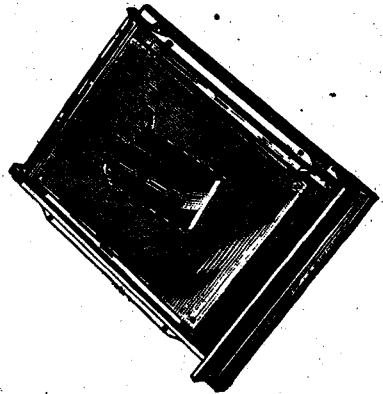
Write for our prices for one price sections, delivered freight and duty prepaid.

G. B. LEWIS & CO.

WATERTOWN WIS.

## THE MITCHELL FRAME NAILER.

Saves the cost of the machine in nailing 500 frames, to say nothing of the extra quality of the work obtained by its use.



PRICES.

For Jones' Frame.....\$1.25  
For Langstroth Frame.....\$1.50

Ready to go by express or freight.

THE D. A. JONES CO., LD., BEETON, ONT

## BEEES AND HONEY

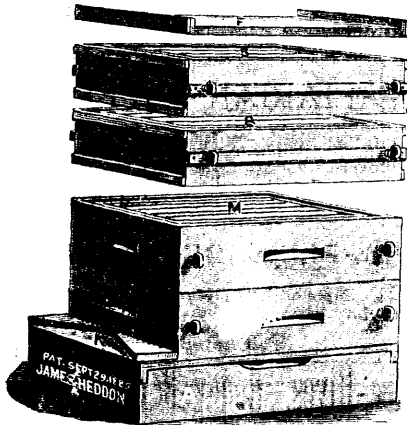
TO ALL that are interested in Bees and Honey, send for our Free and Illustrated Catalogue of Apiarian Supplies. Address

M. RICHARDSON & SON,

Port Colborne, Ont

## THE NEW HEDDON HIVE

We have bought out the interest of the inventor in his Canadian patent, and we are in a position to make and sell the Heddon Reversible Hive, got up in any shape to suit the purchaser—either in the flat or nailed.



The engraving gives a good idea of the hive. The brood-chamber is in two sections; also the surplus arrangement, which may be interchanged or inverted at will. The cover, bottom-board, and top and bottom of each sectional case has one-half of a regular bee-space, so that the surplus cases with the sections may be placed between the two brood chambers, or the latter may be transposed or inverted—in fact, all parts of the hive are perfectly interchangeable. The brood-frames will all be bored for wires.

### A SAMPLE HIVE

includes the bottom board and stand; a slatted honey board; a cover; two 6-inch brood chambers, each containing 8 frames, wired; two surplus arrangements, each containing 28 one-pound sections, both with wide frames and separators, both of which can be interchanged or reversed at will. Price, nailed \$2.90; nailed and painted \$3.25. It is absolutely essential to order one nailed hive as a pattern for putting those in the flat together correctly.

### HIVES READY TO NAIL.

We have arranged several different combinations in these hives, so that our customers may make a selection from the sample hive nailed without waiting for us to quote prices; in ordering ask for the number which you desire, and no mistakes will be made.

**No. 1** consists of the stand, bottom-board, cover, two 6-inch brood-chambers, 16 frames with holes punched for wiring, and the slatted honey-board, price \$1.25 each.

**No. 2** is the same as No. 1, with the addition of one surplus arrangement, containing 28 sections, with separators—interchangeable and reversible. Price \$1.75 each; without sections, \$1.60.

**No. 3** is the same as No. 2 with the addition of another surplus arrangement, and sections and is the same in all particulars as sample hive. Price \$2.30 each; without sections, \$2.00.

Those who wish the hives *without* the stand, or honey-boards, may make the following deductions from above prices: Stands 10 cents; honey-boards 7 cents. For extra brood chambers, with frames in flat, adds 45 cents each; and for extra supers adds 40 cents each. Separators of tin are included in these prices throughout. If separators are not desired, deduct for each super 4 cents.

### DISCOUNTS IN QUANTITIES.

For 5 or more hives, 5%; 10 or more, 7½%; 25 or more, 10%; 50 or more, 15% off these prices.

THE D. A. JONES CO., (Ld).

BEETON ONT.

—BOOK FREE.—

## Great Reduction

Good as the best! Our one-piece  
**V-GROOVE SECTIONS,**  
Smooth on both sides, at \$3.50 per 1,000. For larger lots, write for prices.

A. M. MURRAY & CO.,

Goshen, Elkhart Co., Ind.

## SMALL FRUITS PLANTS.

Raspberries, Blackberries, Strawberries, Currants, Gooseberries, Grape Vines, Russian Mulberries. *First-Class Plants at Low Prices.*

Send for price list.

JAMES R. HOWELL,

Box 293, Brantford

## BEE SWAX WANTED.

Will pay the highest market price for any quantity of pure wax. Comb foundation for sale to suit any frame or section. 35¢ per lb. for wax. Wax worked on shares or for cash. All freight to Campbellville station, C. P. R. If by mail to

ABNER PICKET

Nassagaweya P. O., Ont.

Also agent for D. A. Jones' supplies.

## FOUR REASONS WHY YOU SHOULD PATRONIZE

## C. M. Goodspeed

### CIRCULARS FREE.

Low PRICES.—Everything is guaranteed first quality—PROMPTNESS—and last but not least RELIABILITY.

If you want Bees, Queens, Hives in flat, Sections (1 lb.) Bee Books or Papers (any two American Bee Papers to one address for \$1.70), B. Leghorn tows, (eggs for hatching, 50 cts. for 13), Aisike Clover, seed clean \$7.00 per bushel raspberry and strawberry plants, basswood sprouts, etc. Drop me postal stating what you want.

Remember I am agent for all the Leading Newspapers of the country; price list of 550 on application. You can save money by ordering of us. Ample reference given.

C. M. GOODSPEED,

Thorn Hill, Orono, Co., N.Y.



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

VOL. II. No. 7. BEETON, ONTARIO, MAY 12, 1886. WHOLE No. 59

### OUR OWN APIARY.

#### MOVING BEES FOR FALL PASTURAGE.

**26** OUR friends will recollect that we told them about moving two or three hundred colonies of bees to a new location for fall pasture last year. The weather being unfavorable they gathered no honey worth mentioning, in fact we had to feed them. The experiment proved an unprofitable one. Had the weather been favorable the location was all that could be desired and the result would probably have been very different. We may say that while there they did not receive proper attention, and when being brought home some were lost through carelessness. A large number of the colonies were doubled up and strengthened, but the bees were old and having to be fed did not cluster as closely as they should have done, and although they went into winter quarters with plenty of good food they did not winter well, 79 colonies dying before they were set out. This is another argument against late feeding and disturbing bees. They had just the same quantity of food, as well sealed and of the same kind as the 200 colonies in our home yard, and after being prepared for winter, all were placed in the bee-house. That so many of these should die and only five of those in the home apiary (and that from queenlessness and starvation) is proof that late feeding and disturbing, (even though the stores are well sealed, the food all that could be desired, the repository everything that it should be), is not conducive to successful wintering. Will not this account in a great measure for the loss of bees, *properly* prepared but just a little too late?

#### COMBS CLOSER TOGETHER.

When we first set our bees out we ran over them hurriedly to see that they had stores

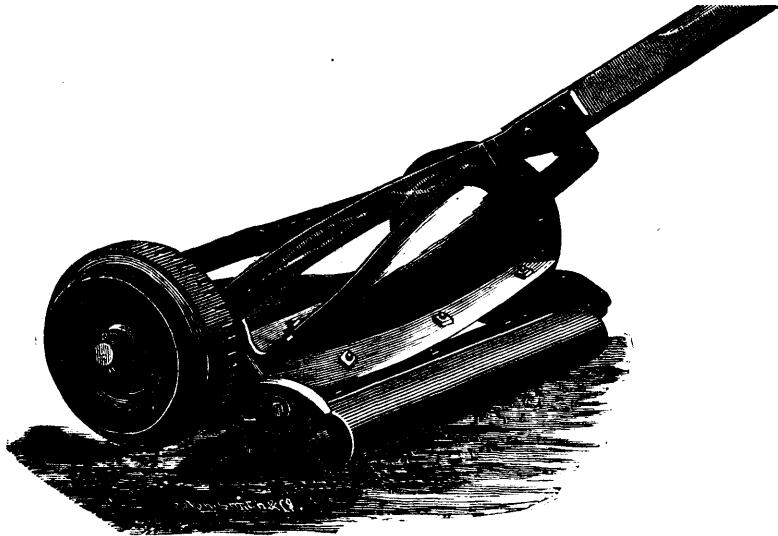
and queens, and gave instructions to the men to put the combs closer together. We told you last fall that we kept our combs well spread for winter that the bees might have more room to cluster. In examining them the second time we find that the combs were not crowded as closely as they should be and by comparing them carefully, taking a number of colonies of the same strength we find those that have been crowded up as close as the bees could possibly work between them, have on an average one-third more brood than those left apart. The benefits of keeping the combs close together in early spring when the bees are scarce and the weather cool is not fully realized by many. Those that are crowded closely can cover just so much more brood. If combs could be spaced accurately about  $1\frac{1}{4}$  inches apart from centre to centre instead of  $1\frac{1}{2}$  the difference would be more noticeable in spring. In mid-summer it does not make so much difference, but colonies so arranged soon become the strongest of the strong.

#### LAWN MOWERS.

**W**E have had numerous enquiries for lawn-mowers, and we have been looking up one that would be simple, cheap and durable. We have found it in the machine we now offer. It is what is called the "Philadelphia Pattern" and is the only mower in the market with tempered knives. For cutting the grass around bee-hives the 10 inch machine does excellent work; full directions are sent with every mower. We ship them direct from the factory and in the majority of cases the freight will not be more than 35 cents on each. The prices are low—very much lower than a year ago—and everybody who has a desire to have everything trim and neat about the apiary will find it money saved to invest in one.

10 inch.....\$4 75  
12 inch..... 5 00

14 inch..... 5 50  
16 inch..... 6 00



FOR THE CANADIAN BEE JOURNAL.

#### THIS, THAT, AND THE OTHER.

IN common doubtless with all of your readers I was pleased to note the improvement in the CANADIAN BEE JOURNAL with the commencement of a new volume. The new cover, so tastefully gotten up with an appropriate motto, adds greatly to the appearance of the JOURNAL; and the insertion of date on every folio will be found a great convenience in referring back when the volume is bound. These improvements, without increasing the subscription price, will, no doubt, be fully appreciated by its large and growing constituency. The JOURNAL is now a year old and we may properly ask how has it fulfilled its journalistic mission? It has, of course, had its short comings in typographical accuracy, etc., but on the whole, everything considered, it must be admitted even by "our friends the enemy," that it has performed its mission, as a medium of communication and instruction to Canadian and American bee-keepers, faithfully and well. Barring friend Newman's strictures and apprehensions as to the JOURNAL'S name (which, however, are now apparently allayed) I have seen no fault found with the CANADIAN BEE JOURNAL by contemporaries or contributors since its commencement with one exception. The *Rural Canadian*—the late "organ"—has found some fault and that is all I have noticed. And that even this is only a little atrabiliariousness is evident enough from its last pronouncement. The usual equanimity of the *R. C.* is considerably troubled at this *brotherly* kindness and

courtesy going on amongst apiarian editors, correspondents and readers. And worst of all is, "the prevailing fashion has got control of the CANADIAN BEE JOURNAL and brother Jones 'brothers' everybody in the most affectionate manner possible;" and this social stoic who does the apiarian for the *Rural* (and does it handsomely too) declares he has "no sympathy or patience with this kind of nonsense." I fear this is a simple case of billiousness or a temporary fit of indigestion attended with slight gastric fever. But it will pass off in due time and sunshine will come again.

"Imperial Cæsar, dead and turned to clay,  
Might stop a hole to keep the cold away."

We are only "passing this way once," unless, indeed, like Cæsar's "clay," we rise in other forms animate or inanimate; and let us then, by all means, be as kind, courteous, and "brotherly" towards each other as within us lies. So long as my digestion is good and the sun shines I can see no earthly reason (or supernal either for that matter) why I should not call my fellow a "friend" or "brother" even though I may never have laid my eyes upon him. Wherefore, I would advise the JOURNAL (which at present seems to have a most excellent digestion) to pay no heed to the social frigidity of its neighbor the *Rural*, but to go on with a "richt guid will" to all men, and especially to all bee-keepers. The *Rural* has no objection to the term "brother" among those "bound together by special religious ties," but he can't stand it among bee-men. "Tut mon!" no religionists in the world are

bound together like bee-men. Who ever heard of religionists stopping on the street corners and everywhere they meet to talk about religion as the bee-men do to discuss their favorite subject? If they did there would very soon be a disputation ending probably in a quarrel about doctrine. But the bee-men stop anywhere and everywhere and talk bees and honey and interchange opinions with the most perfect *bonhomme* and good will.

The *Rural* says of the apiarian editors that they "prune down all communications into the most namby-pamby shape imaginable, and the journals are full of the lingo of class-meetings and love-feasts." This is perhaps true of Mr. A. I. Root's *Gleanings*, but does not apply at all to our CANADIAN BEE JOURNAL. Our versatile friend Root has a wonderful *penchant* and marvellous ability for mixing up bees, business, and religion in his journal; but our journal is prudently steering clear of such a conglomeration. But Mr. Root has very properly changed the name of his journal to suit its varied contents, and "thereby hangs a tale." A few months ago when the propriety of dropping the "lingo of class-meetings and love-feasts" from *Gleanings* was being discussed in its columns by some of its correspondents I took the liberty of writing to *Gleanings* on the subject giving my views and "vote," for they were "voting" on the matter. The following is an extract from what I wrote to *Gleanings*, which, however, never appeared in its columns:—

"With regard to the question whether your Journal ought to be exclusively apiarian or mixed in its contents I feel compelled to vote with the minority, and you know it has been no un-frequent occurrence in the world's history that minorities were right and majorities wrong. My reasons for thinking that a bee journal, so named, should be devoted entirely to bee culture as its name implies, are briefly these: First, there is in these days, as we all know, a very wide diversity of opinion and belief on all theological and religious questions, even on the fundamentals. It follows, therefore, that in so large a constituency as *Gleanings* reaches there will be quite a number who differ from you in your religious tenets. In the second place I regard the family, the church, and the Sunday school as the proper place for the inculcation of all sectarian and religious doctrines for all those who desire to teach them, receive them, or have their children taught them. But the principles of morality, that is, briefly stated, to do good to each other and to do right towards each other, and upon which all right minded men agree,—these, I say, ought to be set forth both by precept and ex-

ample—ought to be inculcated anywhere and everywhere, and they will offend nobody; but speculative, religious questions upon which the world is so much divided ought, I think, to be relegated to their proper place in the family, the church the Sunday school, and the religious and sectarian newspapers.

To this it may be answered that much of the matter now appearing in the regular and exclusive bee journals is speculative in character—pollen theories, foul brood theories, hibernating theories, and other unverified hypotheses. That is quite true, but a moment's reflection will reveal that the two cases are not at all analogous. In the latter case the doctrines broached are all open to discussion and criticism: in the former case they are not, and this makes all the difference. Now, Mr. Editor, if you should put upon your title page "Gleanings in Bee Culture and discussions on Religion," and then would admit to its columns courteous criticism of your religious tenets the same as you do of your apicultural positions, then you would be perfectly consistent and strictly within your right, and no subscriber could reasonably complain. But as the matter stands now your title page is a misnomer and is misleading.

Without presuming to dictate in this matter at all, my opinion in the premises is just this: Either the title page of your JOURNAL ought to be changed so as to cover the foreign matter, or the foreign matter ought to be excluded from its pages. At the same time I think the bee-matter in its pages, independently of all other matter, is worth much more than its subscription price and I wish "Gleanings in Bee Culture every success."

This straightforward friendly criticism of *Gleanings* seemed to be too much for friend Root, who wrote me kindly, and courteously declined to place it before his readers. However, I lost no sleep over its non-appearance, especially as my strictures seemed to have the desired effect, for the title page of *Gleanings* was forthwith changed by the addition of the words "And Home Interests", which phrase Mr. Root now no doubt conscientiously thinks covers all the foreign matter in *Gleanings*. This, however, is a debatable question, but I let it rest there and still wish *Gleanings* well.

#### THE WEATHER AND THE BEES.

We have had ten days of phenomenal weather here for April—warm, even hot, the glass ranging from 65° to 80° in the shade. This auspicious spell commenced on the 12th and lasted till the 23rd. On the 13th I began to carry the bees out of the cellar and continued carrying out more or less every day for the



whole ten days, carrying out the more restless ones and the lighter ones first. Had not quite a number of them been short of stores, weather even so favorable would scarcely have tempted me to carry out so many, for I had an irrepresible impression during the whole ten days that such weather was "just too sweet" to last. However, it afforded an excellent opportunity to supply those needing stores and get them nicely started brooding. I found them on the whole in very good condition, that is those carried out—there are some eighteen or twenty of the heaviest in the cellar yet perfectly quiet, and there they will remain I think for some time as the weather is now cool, cloudy and generally unfavorable. I found a few colonies, some five or six, dead from starvation and a few dead of diarrhoea, while all the others were bright, clean and healthy. That we have considerable yet to learn about the causes (occult enough) of bee diarrhoea, and the conditions governing winter consumption of stores, is evident enough. Here are two colonies side by side in winter quarters fixed up in exactly the same manner, with an equal amount of stores in the Fall, same race of bees, and queens of same age. In the Spring upon removing them we find one in first-rate condition, clean, healthy and bright, with over half of the stores in the hive. The other has consumed the whole of its stores including even the most of the pollen and has starved to death, without the slightest sign of diarrhoea or other disease notwithstanding the very large consumption of honey and pollen. Here are two other hives side by side apparently similar in all respects in the Fall, and fixed up the same. In the Spring one is dead of diarrhoea with nearly the whole of the stores in the hive, while the other is in first-rate condition, clean, dry, bright and healthy. These things I have witnessed within a fortnight; and I have been thinking and studying and turning the matter over and over in my mind seeking a solution. What the results of my cogitations and investigations may be I will report later should anything come in sight worth reporting. I tell you friends we have "more than considerable" to learn yet about this wintering problem. True we have got so that we can winter with little loss from diarrhoea, but when shall we completely overcome even the minimum? That is the question. However, considering that the honey failed so early last season (the last of July) and that the bees had to be fed so much and so often, they have come through remarkably well. And I have learned something from the Fall and Winter experience. Indeed I think I have learned a good deal which will surely stand me in good

hand in the future in wintering. Nor, fortunately, has the acquisition cost me much. Success naturally inflates us. Every Fall when we put our bees away we think we know it all—that is, about wintering, for have we not been in the habit of bringing our bees through all right? But a Spring comes and we wake up out of our "hibernating" sleep with considerable of the conceit gone, for if we lose but one colony and cannot for the life of us divine the causes, "even in heaven above or earth beneath," our knowledge is discounted as well as our conceit. But let us observe carefully and accurately, study and classify the facts, and reason logically from them and we may hope to ultimately arrive at the good of complete apiarian knowledge and success.

ALLEN PRINGLE.

Selby, Ont., April 26th, '86.

We have no hesitation in saying that "Gleanings in Bee Culture" deserves the warmest support of all our friends. In reference to bees dying we are fully convinced that there is more danger from having the temperature too low than too high, and if bees are not disturbed for six or eight weeks before they go into winter quarters and are all nicely prepared before winter sets in they are sure to come through in far better condition than if disturbed. If you are indifferent to the way your bees come out in the Spring just disturb them some before putting them away for winter. By the way, it was at friend Pringle's suggestion that the date is inserted on every folio, and we desire now to publicly thank him for it.

FOR THE CANADIAN BEE JOURNAL.

#### THE POLLEN THEORY IS NOT SCIENTIFIC.

IN his paper on the Pollen Theory, read at the late North American Convention at Detroit, Prof. Cook asks: "Is it not scientific then to urge that pure carbo-hydrates are the best food on which to winter our bees?"

In answer to the question I submit the following statements of physiologists, whose high standing Prof. Cook will hardly question:

Speaking of nitrogenous substances, Dr. J. C. Dalton, jr., says: "No food can long be nutritious unless a certain proportion of these substances be present in it. Since they are so abundant as ingredients of the body, their loss is felt more speedily and promptly, than that of any other substance except water." (Dalton's Treatise on Human Physiology, 3rd ed., p. 109.)

Prof. Huxley says: "Whether an animal be herbivorous or carnivorous, it begins to starve from the moment its vital food stuffs consist of pure amyloids or fats, or any mixture of them. It suffers from what, may be called nitrogen starvation, and sooner or later will die. In this-

case so long as it continues to live, it feeds upon itself. The excretions which contain nitrogen are necessarily formed at the expense of its own body, whence it has rightly enough been observed that a starving sheep is as much a carnivore as a lion."—(Elementary Lessons in Physiology, 8th ed., p. 136.)

Prof. Foster says: "The characteristic feature of protoid food is that it increases the oxidative metabolic activity of the tissues, leading to a rapid consumption, not only of itself, but of non-nitrogenous food as well."—(Foster's Physiology, 2nd American ed., p. 599.)

On page 570 Prof. Foster says: "When an animal is fed simply on non-nitrogenous food, death soon takes place; the food rapidly ceases to be digested and starvation ensues."

The foregoing statements are verified by the experience of practical bee-keepers. Prof. Cook says: "I received bees from James Heddon, victims of the cold winter, which were fed entirely on sugar syrup. In these bees we find the syrup so entirely undigested that the characteristic sugar odor and taste is very marked. They died of indigestion." (*Gleanings*, 1885, p. 235.)

When bees, wintered entirely without pollen, have lived till spring their bodies were so reduced in size by their "feeding on themselves" as to be plainly noticeable. James Heddon says: "We prepared 45 colonies without a cell of pollen. During the examinations in early spring the first cover I raised my assistant exclaimed: O! what lean looking things." (*A. B. J.* 1884, p. 405.)

The above statements and experience give a negative answer, once for all, to the question, Is the pollen theory scientific?

S. CORNEIL.

Lindsay, 26th April, 1886.

We have pollen in all our hives and we find temperature to be of the greatest importance in connection with wintering, and pollen of very little, except for brooding purposes in spring.

FOR THE CANADIAN BEE JOURNAL.

#### DEAD BROOD AND FOUL BROOD.

**Q** N page 69 of C. B. J., I notice that Mr. A. W. Osburn goes rather strong for me because I said, on page 748, that in Query No. 52, page 664, we have a case of chilled brood, which, I know from experience, will sometimes cause foul brood, and that I have known foul brood to be by the rotting of the uncared for brood, which is the real and only cause of foul brood. I also said never to put dead brood of any kind in a bee hive.

For the sake of your new subscribers, which

have not seen Query 52, I will give it here, and it will also be found in the C. B. J. of January, 13, 1886, page 664:

Query No. 52.—"In the spring it sometimes happens that combs of deceased colonies—or even weak living ones—contain dead brood, and upon removing the capping the contents of the cells are found to be a brown colored thick liquid substance. How is this to be distinguished from foul brood? and (2nd) how should combs containing such be treated?"

If Mr. A. W. Osburn will read the answers to the above Query No. 52, from fifteen of the best bee-keepers in the world, he will see that only two out of the fifteen would use colored thick as found in Query 52. If I wanted to start a good foul brood nursery, I would want my hives so very weak that they would be in very poor condition, then I would fill them full of such combs as found in Query 52. Then by keeping the hives in a very poor weak state, I would be able to produce the genuine article, foul brood.

Bee-keepers that have never seen foul brood should send eleven cents to D. A. Jones for his pamphlet on foul brood.

WM. McEVOR.

Woodburn, April 26, 1886.

There is a mild type of foul brood or something approaching it which is often taken for the genuine foul brood, but we believe it is now the opinion of most of our scientists that foul brood cannot be started from decaying or dead matter. It seems to us that a large amount of decaying brood in a hive must be injurious, but whether or not it would start the genuine foul brood has not yet been fully determined. Further experimenting in this direction might be useful. We once placed a nucleus over a hive containing nothing but dead and dying larvæ, and allowed it to remain for a long time. The stench from the decaying matter in the bottom of the hive was almost unbearable; in fact we began to fear that the nucleus would contract some disease even more loathsome than foul brood, but after setting for weeks no bad results occurred. It would be well to experiment further in order to prove the matter conclusively. For this purpose it would be better to take brood from a hive that had no traces of the disease. Drone brood might be taken without much loss, and if collected in sufficient quantities the matter could be pretty thoroughly tested.

FOR THE CANADIAN BEE JOURNAL.

**DEEP AND SHALLOW FRAMES.**

**S**EEING so much discussion in the Bee Journals about deep and shallow frames, I cannot help but give a little of my experience in this matter. When I commenced bee-keeping I used a deep frame, 12 x 16½ in., and I got all my bees through the winter in good condition. I then tried the shallow frame, and the result was that I lost them nearly all every winter since. Last summer I put five colonies into Jones' hives and all came out in good condition. I had at the same time four colonies in shallow frames, 10 x 14 in.; two of them died of dysentery, and the other two were diseased. One lost its queen; I doubled it up with the other and it is even now the weakest colony I have and is dwindling away, while those in deep frames are in good condition. I could give an account of several others who have met with similar results, but will give but the experience of one here in Port Elgin. When he commenced bee-keeping he used the deep frame and met with wonderful good success. He then substituted the shallow frame, at which time he had 100 colonies. The result of the change is that he has now but one colony left. He always wintered them in the same cellar.

I am in favour of the deep frame, let others say what they like. The deep frame is specially adapted for our cold northern climate; in more southern and warmer climates the shallow frame may be all right.

A. BECHTEL.

Port Elgin, Ont., April 23rd, 1886.

Your experience has been the same as that of many others, yet we have no hesitation in saying that bees can be successfully wintered in shallow frames with our present knowledge of the art. We think bees would winter better in shallow frames, if the frames were so arranged that the bees could be in a more compact form in the hive. This is one advantage of the deep frame. We are glad to know that your bees came out so well.

FOR THE CANADIAN BEE JOURNAL.

**BEE STINGS.**

**T**HE season for being stung by the bee is at hand. Some claim to be indifferent to the poison, and may be to a certain extent. Certain it is that in large quantities the poison has decidedly injurious effects, and one having access to a homeopathic work can see the effects of formic acid when an overdose is given, and all medicine, when endermically in-

jected, as is the case with the bee-stinging, requires a less quantity, and is more rapid in action than taken into the system through the stomach.

Many remedies and antidotes are given. There is one given by a physician which to me is new. He states that the wax of the ear is secreted to prevent insects from entering, and destroy them if they attempt such a lark. The wax is a remedy for all such poison, and we carry with us nature's own antidote for poison from the bee. Let it be applied at once to the wound, and none more effectual can be obtained, and the substance is always applicable and effectual for the system of the individual by which it is secreted. It costs nothing to try it. To me, it is new, and all are welcome to test it.

R. F. HOLTERMANN.

Brantford, May 4th, 1886.

This is a new idea, and superficially it looks reasonable. It is a cheap remedy at any rate and one which one always carries right along with him. We should like reports about it as soon as it is tried.

Dresden Times.

**BEE-CAUSE.**

**T**HE CANADIAN BEE JOURNAL weekly, published by Jones, Macpherson & Co., Beeton, Ont., comes to hand greatly improved and enlarged. This worthy JOURNAL has entered upon its second volume, and, from our personal knowledge of its talented editor-in-chief, is bound to succeed. Every apiarist in Canada should be a subscriber of the JOURNAL, as it will prove a profitable investment and a source of pleasure to those engaged in bee culture. Why do we recommend the CANADIAN BEE JOURNAL? Bee-cause the editor knows what he writes about.—Bee-cause he has gained the knowledge by deep study.—Bee-cause he has searched out the Bee in the land flowing with milk and honey (Palestine).—Because it is the first \$ weekly Bee Journal published.—Bee-cause it is purely Canadian.—Bee-cause the subscription price is within the reach of all.—Bee-cause it makes Bee-keeping simple.—Bee-cause it weekly explains the culture of Bees.—Bee-cause it is thoroughly reliable and authentic.—Bee-cause it engages you in a sociable conversation weekly.—Bee-cause it will assist you in improving your bees.—Bee-cause the above truths are stranger than fiction.—Bee-cause we could write all day on the innumerable merits of this JOURNAL.—Bee-cause we won't! There!

Our thanks are due the *Times* and every other journal throughout Canada that has

favored us with a kindly notice. We can truthfully say that they are thoroughly appreciated.

## QUERIES AND REPLIES.

UNDER THIS HEAD will appear Questions which have been asked of, and replied to, by prominent and practical bee-keepers—also by the Editor. Only questions of importance should be asked in this Department, and such questions are requested from everyone. As these questions have to be put into type, sent out for answers, and the replies all awaited for, it will take some time in each case to have the answers appear.

### BEE-SPACES FOR SECTIONS.

QUERY No 73.—In tiering up section cases is there need of bee-space between each case? If I always leave bee-space between brood chamber and lower case and have the rest fit down close on each other, what would be the objections? C.

S. CORNEIL, LINDSAY, ONT.—No. None.

H. D. CUTTING, CLINTON, MICH.—No. I have always obtained my comb honey in this way and see no objections to it.

PROF. A. J. COOK, LANSING, MICH.—It is very desirable to have bee-space between each two adjacent cases. The sections are then kept much nicer.

ALLEN PRINGLE, SELBY, ONT.—I do not tier up, but if I did, I think I should have no spaces between any except between the lower one and the brood frames.

M. EMIGH, HOLBROOK, ONT.—I use a bee space for convenience in handling; don't think it a necessity. The objection: mashed bees and sections glued together.

DR. J. C. THOM, STREETSVILLE, ONT.—Do not know of any more serious ones than that of killing many bees every time you replaced case upon case. There may be others, but I take it this is the chief.

DR. C. C. MILLER, MARENGO, ILL.—I prefer the bee space in each case, mainly to avoid killing bees, also to avoid having the sections glued together. The latter, however, might not be so objectionable as I imagine.

G. M. DOOLITTLE, BORODINO, N. Y.—No; use Tinker's intermediate rack on frames. After trying both a bee space and none for several years, I have come to the conclusion that honey can be successfully produced in either way.

H. COUSE, THE GRANGE, ONT.—(1). There is. (2). The objection would be that the top and bottom sections would be glued so much toge-

ther with propolis that it would be a difficult matter to get them separated, besides the extra labor in scraping the propolis from the sections to make them marketable.

S. T. PETTIT, BELMONT, ONT.—I think there is need of bee space between each case. 1. There always are bits of comb and sometimes bits of propolis in first bee space. These would be difficult to remove, but it would be necessary to remove them every time another case were added. 2. You would be very apt to crush bees. 3. The tops and bottoms of sections would be all stuck together with propolis. 4. Bees would not work so well if cooped up in that way. 5. Bees would be more likely to leave passage ways through the corners and bottoms of sections.

BY THE EDITOR.—We think there should always be a bee space between each tier of sections. The results will be more satisfactory, and the combs much straighter, if separators are used. If the combs are left in tiers without bee spaces between the different ranges of sections the latter will be more solid.

### FEEDING BACK EXTRACTED HONEY.

QUERY No. 74.—Have you ever tried feeding back extracted honey to get it in sections? (2). Did it pay? (3). Do you think that it can be successfully followed? If not why not? (4). Do you think the honey is all retained in the hive or not? (5). Did you let the bees raise brood when feeding? (6). Did you furnish full sheets of foundation or full combs in sections? (7). Did you make the honey thin as when gathered? (8). What kind of feeder did you use? C.

DR. A. B. MASON, WAGON WORKS, O.—No.

S. CORNEIL, LINDSAY, ONT.—Never tried it.

H. COUSE, THE GRANGE, ONT.—Have never tried this plan. I believe that those who have have not made a success of it.

G. M. DOOLITTLE, BORODINO, N. Y.—(1). Yes. (2). No. (3). No, because it don't pay. (4). Yes, in some form. (5). Yes, could not help it. (6). Part filled sections. (7). Yes. (8). All kinds.

PROF. A. J. COOK, LANSING, MICH.—(1). Yes. (2). In one of several cases. (3). Yes, when we know just how. (4). It must be I think. (5). They were breeding. (6). I have done both. (7). No. (8). Smith feeder, which is the same in principle as the Heddon.

DR. J. C. THOM, STREETSVILLE, ONT.—(1). Never tried it. (2). Do not think it can be followed so as to make it pay in section honey obtained at present prices for honey. If not why not get fifty cents per pound for your section honey and it might and would pay.

DR. C. C. MILLER, MARENGO, ILL.—(1). Yes. (2). No. (3). No, I have heard of its being tried but never heard of its being a success that I remember except in a book of fiction. (4). Yes. (5). I did nothing to prevent it. (6). Both. (7). I think not, although it was tinned. (8). The hive itself with a tight bottom board, also a 10 quart feeder with a float.

M. EMIGH, HOLBROOK, ONT.—(1). Yes. (2). No. (3). No, because the honey will granulate in cold weather and the sections are not sealed even and smooth and not enough difference in price to pay for trouble. (4). No. (5). Yes, on three combs. (6). Both. (7). No. (8). A six quart milk pan with a little grass on top of honey.

ALLEN PRINGE, SELBY, ONT.—I tried it but soon gave it up as unprofitable. I cannot see for the life of me why any bee-keeper should feel so bad in the fall about having unfinished sections. Extract the worst and the comb will be ready for next spring, and sell the best for what they are worth. If you do a local trade you will find lots of people (not overly particular) who will be glad to get them at a fair price. Weigh them up to them.

H. D. CUTTING, CLINTON, MICH.—(1). Yes. (2). I don't think it did. (3). It may in the hands of a few. If you can get from seven to eight cents per lb. don't attempt to feed back, the waste is too great. (4). I don't think they carry any to the neighbors. (5). Yes. (6). Full combs built from small starters. (7). No. (8). A large tin atmospheric feeder outside of the hive, but no bees could get to the contents except from the inside of the hive.

S. T. PETTIT, BELMONT, ONT.—(1). Yes. (2). No. (3). No, the trouble, loss of time and loss of weight of honey will quite or more than offset the difference in prices. Again, if the feeding for section honey be done after the honey harvest, I think it enervates the bees and unfits them for the trials of winter. (4). Yes, except what is consumed by the bees. (5). Yes. (6). Full sheets of foundation and unfinished sections. (7). Used thin unripe honey. (8). One made of tin, 10 by 11 inches and 3 inches deep, perpendicular sides and ends. Bees-ates are made of pine  $\frac{1}{4}$  inch thick,  $\frac{3}{4}$  inches wide, 10 $\frac{1}{2}$  inches long; these are nailed together with  $\frac{1}{4}$  inch pieces be-

tween them, nailed crosswise of these little thin pieces. Nail enough together to fill tin feeder. This feeder will hold ten pounds feed.

BY THE EDITOR.—(1). Yes. (2). Sometimes it did and sometimes it did not. Depends on the plan adopted. (3). It depends on the price of comb and extracted honey and the system of manipulation and more especially if it is sold immediately after being stored, because if it is not it will granulate so hard as to be almost useless. On the whole we do not think it is advisable to attempt it unless to get a few unfinished sections capped. (4). We have never known bees to throw honey away. What they do not store up they consume for food and brood rearing. (5). We have allowed them to raise brood, but more honey will be stored if they are prevented. (6). Full sheets of foundation. (7). Have usually fed it as it was extracted. (8). Have used all kinds of feeders but prefer the "Canadian" bee-feeder, as do most who have tried it.

## SUNDRY SELECTIONS.

### BEES IN QUEBEC.

FRANK W. JONES.—So far as heard from, bees have, with few exceptions, wintered well in this province and have come out good and strong. My own loss was trifling—about 7 per cent out of 151 stocks, principally caused by insufficient stores. Wintered 76 colonies packed in Bristol L. hive out of doors and balance in cellar. Those out of doors wintered fully as well. The past 10 days have been very fine and bees are booming. Gathered first pollen 14th, the earliest I ever knew them to here. Set out last of those in cellar 20th, and were they not glad to get out though? They began bringing in pollen within an hour from time they were set out. Bees are gathering a large amount of light colored honey, some stocks 6 to 8 lbs. already. Should this weather only continue bees will build up strong in good season for fruit bloom.

Bedford, Qué., April 23rd, 1886.

### PREVENTING BLACK DRONES FROM FLYING.

EMILE GARON.—When we wish to straighten the entrance of the hive to hinder the black drones from getting out, how low should we straighten the entrance of the hive to keep the black drones in when the Italian queen goes out to mate, in order that she mate with an Italian drone?

St. Ann's, Que.

The entrance could not very well be arranged to prevent the drones from flying and yet allow the queen to pass

n and out. It would be better to shave off the heads of the black drones or use worker comb instead of drone comb.

#### DOUBLING UP COLONIES.

HENRY BROWN.—I thank you for the BEE JOURNAL, which has just come to hand. It is worth to a beginner five times what it costs; and I shall hail its weekly arrival with pleasure, (and I think with profit). The article of Samuel Cushman has more *real information* than I have seen in a bee-paper for many a day, and then the report of G. Guyer, (if he had only told us how he doubled up, and how he wintered, but perhaps that favour is in store for us); but there is one thing I want to know, the best way to double up when light swarms are at a distance from each other in the apiary. Many of my swarms were light last fall when I put them in cellar, and now I want to know, through JOURNAL, the best way to double up in spring, or would it be better to feed them up and so save the queens?

Frontier, Que.

It depends on their strength, whether they had better be doubled up or fed up. If they are small and you contract the hive to size of colony, and make them very warm, they will come through in nice condition.

#### QUEENS AND SWARMS.

D. STEWART.—I again renew my subscription to the CANADIAN BEE JOURNAL. It is second to none of the bee-papers, and deserves a large circulation. I wish to ask some questions: (1). Where is the queen usually found when a swarm is clustered, inside or outside of the cluster? (2). If I find the queen on a cluster and remove her, placing another in her place, will the bees always accept her? If I have a very large swarm, and divide them, hiving each half in separate boxes, will the half swarm that has no queen accept one at once? Do Carniolans defend their hives well against robbers and moths?

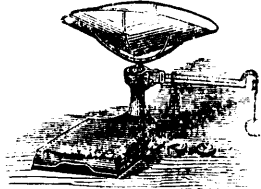
Chiselhurst, Ont.

Sometimes inside and sometimes outside. When inside she cannot be seen until the bees are shaken down. (2). That depends on circumstances. If it is a second swarm it is better to shake the bees down, letting them run into the hive and catch all the queens, as sometimes first swarms have more than one queen, which occurs by the old queens being superseded, and when the young queens hatch, the swarm issues; but if the old queen can be caught in perience. (3). The half-swarm referred to above may not accept a queen so

the cluster, and the one you wish to introduce in her place allowed to remain there until she receives the same scent, then shake them down in front of the hive, hiving them in the usual way, there is little or no danger of her being destroyed, at least this has been our experience after being hived, but if you put the queen with them when they are running in they will be more likely to accept her. (4). They do.

#### SCALES FOR BEE MEN.

WE have arranged with the manufacturers so that we can offer the Union or Family Scale, as seen in the cut below, at a considerable reduction in the price. The great objection to these scales heretofore has been the price, and the sale should now be increased; they are every bit as good for general use as the scale of the same style costing \$10.40, and just as accurate.



We quote the prices for these in our new circular, but repeat them here:

With tin scoop, \$6.60; with brass scoop, \$7.60; double-beam, \$7.60; double-beam and brass scoop, \$8.60. Stamping each, extra, 50 cents; and the Government now requires that all scales made by the manufacturers must be stamped.

## THE CANADIAN BEE JOURNAL

JONES, MACPHERSON, & Co.,

EDITORS AND PUBLISHERS,

BELTON, ONTARIO.

WEELY, \$1.00 per Year, Postpaid.

BELTON, ONTARIO, MAY 12TH, 1886.

Our new circulars are now ready and hundreds are going out every day—every subscriber to the BEE JOURNAL will be sent one—perhaps before they read this item. Our prices are reduced very largely and larger orders have already commenced to come in. Our stock of bees is diminishing rapidly at our special prices—and we will soon have to return to prices quoted in circular.

#### CONVENTION NOTICES.

MICHIGAN STATE BEE-KEEPERS' ASSOCIATION.  
—The next annual convention of this association

will be held in Ypsilanti, Mich., Dec. 1st and 2nd, 1886. H. D. CUTTING, Sec., Clinton Mich.

The Central Michigan Bee-Keepers' Association will meet on May 18, 1886, with Capital Grange at their Hall in North Lansing, Mich., to hold 3 sessions, viz: Forenoon, afternoon and evening. All interested in bee-culture are invited to attend and bring articles of the apiary for exhibition. For any special information address the Secretary. E. W. WOOD, N. Lansing, Mich.

You are requested to attend a meeting of the North Middlesex Bee-Keepers' Association to be held in the Ailsa Craig Town Hall, on Thursday, May 20th, at 2.30 o'clock. It is expected that a large number of prominent Bee-Keepers will be there and that the meeting will result in much profit to all interested in apiculture. A. W. HUMPHRIES, Sec.

## HONEY MARKET.

### DETROIT HONEY MARKET.

There is not a ton of comb honey in the city, and but little wanted. Best 1 lb sections, 14c. Beeswax scarce at 25c.

Bell Branch.

M. H. HUNT.

### BOSTON.

Honey is selling very well but prices are very low, and we are often obliged to shade our prices in order to make rates. We quote 1 lb. comb, 14 to 16 cents. 2 lb. comb, 12 to 14 cents. Extracted, 6 to 8 cents.

BLAKE & RIPLEY.

### CINCINNATI.

No new feature whatever on the market of honey. Trade perhaps duller than usual. Manufacturers are seeming to take a rest. Prices are nominal and no changes to note from last quotations. There is a fair demand for beeswax which we quote at 20c. to 25c. on arrival.

CHAS. F. MUTH & SON.

### CHICAGO.

Without any material change. White comb honey in one pound frames brings 16 cents; very fancy 17 cents. Dark is slow sale. Extracted honey 6 to 8 cents per pound. Beeswax 25 to 26 for yellow, market steady.

Chicago,

R. A. BURNETT.

### NEW YORK.

We quote quite an improvement in sales of comb honey the past two weeks, and owing to the lateness of the season prices rule low. In consequence of the low freight rates from San Francisco to New York, many dealers in honey are availing themselves of the rates and shipping extracted honey to this market at prices ranging from 4½ to 5½ cts. per lb. This has already had its effect on stale goods. We quote prices as follows: Fancy white comb honey, 1 lb. sections, 12 and 13 cts. per lb.; fancy white comb honey, 2 lb. sections, 9 and 10 cts. per lb.; fancy buckwheat comb honey, 1 lb. sections, 9 cts. per lb.; fancy buckwheat comb honey, 2 lb. sections,

7 and 8 cts. per lb.; off grades, 1 and 2 cts. per lb. less; extracted white clover honey, 6 and 7 cts. per lb.; extracted buckwheat honey, 5 and 5½ cts. per lb.; extracted California honey, 5 and 6 cents per lb.; extracted Southern, as to color and flavor, 5 and 6 cts.

McCAUL & HILDRETH BROS.

## EXCHANGE AND MART.

Advertisements for this Department will be inserted at the uniform rate of 25 cents each insertion—not to exceed 5 lines—and 5 cents each additional line each insertion. If you desire your advertisement in this column, be particular to mention the fact, else they will be inserted at regular rates. Cash must accompany the advt.

**I** WILL ship 4 frame nucleus, well stocked with bees and brood with good queens, in Simplicity hive bodies. Hybrids, \$4.00; Italians with tested queen, \$5.00. I guarantee safe arrival. H. M. MOYER, Hill Church, Berk's Co., Pa.

**C**OMB FOUNDATION for sale, made from good pure wax, cut to any size up to 9½ in. in width. For samples and prices address A. G. WILLOWS, Carlingford, Ont.

**B**EEES! BEEES! For sale—Thirty or forty colonies in fine condition, cheap. Address, W. H. SANFORD, Tottenham.

**W**ANTED—CASH OR BEEES—For village lots 195 and 195, (adjoining corner lots on John, Mary and Moir sts., Elora), unencumbered, and title perfect. Good colonies of bees will be taken in exchange for this desirable property. Correspondence solicited. J. R. MORRISON, Royal City Apiary, Guelph, Ont.

**B**EEES FOR SALE.—Ten colonies at \$7 per colony; 25 colonies, \$6.50 per colony. Bokhara clover seed, 50 lbs. \$6. IRA ORVIS, Whitby, Ont.

**B**EEES, good, strong swarms of Italians, Syrio Italians, and Syrians, in eight frame hives, made light for shipping, or in other hives if preferred. Safe arrival guaranteed by express for \$8 per colony; Hybrids for \$7. I. LA MICHENER, Low Banks, Ont.

## ADVERTISEMENTS.

# HONEY JARS.

Buckets and Tumblers of Crystal Glass, Corks, Tin Foil Caps, etc.

Best Quality With Lowest Prices.

Address for prices, etc.

**TYGARD SONS.**

2119 S. JANE ST., PITTSBURG, PA.

Mention C. B. J.

Send for one of my Price Lists, and see

### HOW CHEAP I OFFER BEES,

Apiarian Supplies, Bee Hives, etc., very cheap.  
S. P. HODGSON, Horning's Mills, Ont.

## Bees For Sale!

We will sell a limited number of colonies of bees—bred for business—being special strains which have been proven for their prolificness and honey-gathering qualities. Each colony will have seven to eight frames, and good laying queen.

- Price per colony.....\$10 00
  - " " 5 colonies, each.....9 50
  - " " 10 colonies, each.....9 00
- Smaller colonies at less prices.

Bees should always go by express unless they are personally cured for *en route*. Terms—*are cash with order.*

THE D. A. JONES CO., L'T'D.  
Beeton, Ont.

### IMPORTED QUEENS.

- In April.....11 francs in gold.
- May and June.....10 " " "
- July and August.....9 " " "
- September and October.....7 " " "

No order received for less than 8 queens. Queens which die in transit will be replaced only if sent back in a letter.

C. BIANCONCINI & Co., Bologna, Italy.

### PRICES CURRENT.

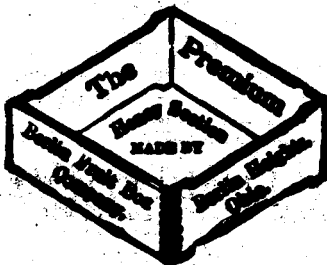
#### BEESWAX

Beeton, May 12th, 1886.

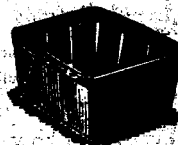
We pay 81c. in cash (30 days) or 84c in trade for good pure Beeswax, delivered at Beeton, at this date, sediment, (if any), deducted. American customers must remember that there is a duty of 25 per cent. on Wax coming into Canada.

#### FOUNDATION

- Broad Foundation, cut to "Jones' size" per pound.....52c
- " " over 50 lbs. ....50c
- " " cut to other sizes " " ....53c
- " " over 50 lbs. ....51c
- Section " in sheets per pound.....65c
- Section Foundation cut to fit 3 1/2 x 4 1/2 and 4 1/2 x 4 1/2 per lb. 70c.
- Broad Foundation, starters, being wide enough for Frames but only, three to ten inches deep.....50c



If you want to use the best one-piece sections made, try ours. They have taken 1st premium wherever exhibited, and all who use them once want no other. H. R. Boardman, of



East Townsend, O., who use 10,000 of them last season, says: "In trying them I folded 1,000 without breaking a piece." Send for our price list of Apiarian Supplies and Berry Packages. Address as above.

## 20 Colonies of Italian Bees

For sale at \$8 per colony.

Italian Queens, 4 frame nuclei. Bees by the pound—Foundation and Bee-keepers' Supplies. Send for illustrated price list to

J. & R. H. MYERS,  
P. O. Box 94, Stratford, Ont.

### Pure Italians.

|                      | May    | June 1st to 18 | June 22 to Oct. 1 |
|----------------------|--------|----------------|-------------------|
| Tested queens.....   | \$2.50 | \$2.25         | \$1.75            |
| Untested queens..... |        | 1.25           | 1.00              |
| Bees per pound.....  | 2.00   | 1.50           | 1.00              |
| Nuclei per comb..... | 90     | 65             | 50                |

Communications promptly responded to and all questions cheerfully answered.  
S. C. PERRY,  
Portland, Ionia Co., Mich.

## 150 FULL COLONIES

Italian Bees in Langstroth Hive.

PRICE FROM \$8.00 TO \$10.00.

According to number ordered. Correspondence solicited.  
R. L. MEADE,  
Nassagaweya, Ont.

**EARLY QUEENS FROM THE SOUTH. ITALIAN**

In April, \$1.25 each; \$13.00 per dozen.  
In May, \$1.15 each; \$12.00 per dozen.  
In June, \$1.00 each; \$10.00 per dozen.  
Tested, \$2.50.

Safe arrival and satisfaction guaranteed. Special rates to dealers.  
W. J. ELLISON,  
STATEBURG, SUMTER Co., S. C.

## Queen Bees and Nuclei.

Italian and Albino Queens bred from Northern mothers, equal to any in the United States, being hardy and superior honey gatherers, as my surplus is stored largely from red clover. Three frame Nuclei a specialty. Vandusen and Given Foundation. Extra nice dovetailed white popular sections. Also one Apiary of 75 colonies of bees. Prices reasonable. Satisfaction and safe arrival guaranteed. Cash with order. Reference; Sohenectady Bank.  
A. E. WOODWARD,  
GROOMS CORNERS, SARATOGA Co., NEW YORK

### FOR SALE CHEAP.

100 Colonies of Bees, 2000 lbs. of Extracted Honey. Will exchange Bees for an Engine and Boiler, 6 or 8 horse power. Send \$1.00 for one of my frame nailers for Jones' frames, and be happy putting frames together. All kinds of hives made to order. Write for prices.  
JAS. ARMSTRONG, Cheapside, Ont.

## BEE CITY SUPPLY ESTABLISHMENT

### NEW REVERSIBLE CRATE HIVE.

Taking the standard Langstroth frame arranged for section or extracted honey at the will of the apiarist. A perfect saving-of-work-hive. Honey can be marketed as raised in the hive without re-handling. Given foundation, all-in-one-piece sections, smokers, honey crates, honey knives, frames, extractors, &c., &c. For circulars and samples address

WM. MCKENZIE,  
Drawer E., Port Burwell, Ont.



**ITALIAN QUEENS 1886**

For Italian Bees and Queens in their purity for beauty and working qualities they are equal to any in the U. S. or Canada. Comb foundation 40c. per lb. Untested queens \$1 each, \$11 per dozen; tested \$3.50 each. Queens reared in full colonies from egg; safe arrival and satisfaction guaranteed. Send for circular  
T. S. HALL,  
Kirby's Creek, Jackson Co., Ala.

**50 COLONIES OF BEES FOR SALE**

**ITALIANS, \$9. HYBRIDS \$8.**

Also bee-smokers, honey knives, comb foundation, perforated metal and apian supplies. No circular. Write for wants.  
D. P. CAMPBELL,  
Park Hill, Ont.

**J. W. GREEN, ALDERSHOT, P. O.**

Manufacturer of Roots, Chaff and Simplicity Hives and Apian Supplies. Catalogue free, by sending your name or P. O.

ESTABLISHED MAY 1ST, 1883.

**The American Apiculturist,**

A JOURNAL OF 32 PAGES DEVOTED TO

**PRACTICAL BEE CULTURE**

SEND FOR SAMPLE COPY.

We also deal in first-class supplies, and under the direction of Mr. Henry Alley, we run the largest queen rearing apiaries in the world. Circular and price list free. Address  
AMERICAN APICULTURIST  
Wenham, Essex Co. Mass

**20 COLONIES**

Of Italian Bees for sale. Originated from D. A. Jones' and S. Corneil's apiaries. Complete Jones' hive; 10 frames with each hive; good queens. Price \$9 to \$10. Apply to  
ERN EST SCHULZ, Lethbridge, Muskoka.

**Foundation Wholesale and Retail.**

I make a specialty of manufacturing foundation of all kinds and sizes and in any quantity. Correspondence with dealers solicited. All of my foundation is made from pure yellow wax, and cleansed and purified by steam, and I guarantee every lb. equal to samples. HEAVY, 5 to 7 sq. feet, cut to fit any frame, in 25 lb. lots, 49c.; 50 lbs., 48c.; 100 lbs., 47c. BEAUTIFUL THIN foundation, 10 to 12 sq. ft., 25 lbs., 58c.; 50 lbs., 57c. FOUNDATION MADE UP, HEAVY, 50 lbs., 12c.; 100 lbs., 11c. THIN, 25 lbs., 20c.; 50 lbs., 18c. Papered and packed in light boxes free. Customers have choice of mills on which foundation is made. A few fine stocks of ITALIAN BEES in May or June on 7 L. frames in light shipping box, \$8. A good 2 1/2 inch SMOKER by mail, \$1. SECTIONS, CRATES, &c. FREIGHT to Montreal per 100 lbs., 28c.; EXPRESS per 100 lbs., 35c. No CIRCULARS. Prospective customers furnished with SAMPLES of foundation upon application. Remember I continue to act as agent for all makes of FOUNDATION MILLS, and write me before purchasing. See former ad. REFERENCES: Exp. Agent, P.M., or Manager E. T. Bank, all of Bedford.  
FRANK W. JONES,  
Bedford, Que.

**DOOLITTLE!**

Wishes to say to the readers of the CANADIAN BEE JOURNAL, that he has concluded to again rear queens for sale, during 1886, at the following prices:

|   |       |         |
|---|-------|---------|
| Untested Queens, each                             | ..... | \$ 1 00 |
| " " per five                                      | ..... | 4 00    |
| " " " ten   | ..... | 7 50    |
| " " " twenty                                      | ..... | 14 00   |
| Untested Queens, reared by natural swarming, each | ..... | 1 50    |
| " " per five                                      | ..... | 6 25    |
| " " per ten                                       | ..... | 11 00   |
| " " per twenty                                    | ..... | 20 00   |
| Tested Queens, each                               | ..... | 2 00    |
| " " per five                                      | ..... | 7 00    |
| " " by natural swarming, each                     | ..... | 3 00    |
| " " " " " per                                     | ..... | 15 00   |
| " " 1885 raising, sent in May                     | ..... | 5 00    |
| or after, each                                    | ..... | 10 00   |
| Extra selected, two years old, each               | ..... | 10 00   |

Circular free, giving full particulars regarding each class of Queens. If Canada money is sent, add 5 per cent., as it costs me that in exchange. Also add eight cents for single Queen, six cents for two and ten cents for five to cover extra postage to Canada. Address

**G. M. DOOLITTLE,**

BORODINO, OVAN Co., N. Y., U. S.

**BEES FOR SALE.**

For sale cheaper than the cheapest.—Blacks, Hybrids and Italian bees in lots of from one to fifty, in Jones' hive. Price \$5, \$6 and \$7 respectively, for strong colonies delivered at the nearest railway in May. Also one Honey Extractor, good as new, for sale cheap.

T. M. CRAIG,

Shefford Mountain, Que.

**BEES OF LIGHT.**—A new publication devoted to Bee-keeping and Poultry-raising. A number of the leading, most practical and successful Bee and Poultry-Keepers have already been secured as regular contributors. Its principal aim will be to advance progressive ideas upon the various topics of modern scientific Bee-Culture and Poultry-Raising. Subscription, 50 cents a year. Sample copy free.

J. J. MARTIN & CO.,

North Manchester, Indiana.

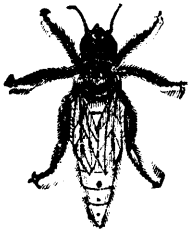
**THE INVERTIBLE HIVE**  
**INVERTIBLE FRAMES,**

Invertible Surplus Honey Cases,  
Entrance Feeders, Top & Bottom Feeders,  
Hive-Lifting Device, Honey Trainers,  
Wax Extractors, Comb Removers, &c.

My new Illustrated Catalogue is now ready, and will be mailed to all who apply for it. Address

**J. M. SINGER**

DES MOINES IOWA



# THE ITALIAN APIARY.

M. B. HOLMES, Delta, Ont.

IMPORTER OF AND DEALER IN

## ITALIAN :: BEES :: AND :: QUEENS.

The best of Italy's choicest queens their mothers. Not one dissatisfied customer in 1883, 1884, and 1885. Price, untested, \$1.50. Tested, \$2.00. Selected tested, \$3.00. Colony in Jones' Hive, \$9.00.

Agent for all kinds of Apiarian Supplies.



# BEE-KEEPERS' SUPPLIES.

Having just completed our Large Factory we are prepared to offer all kinds of Bee-Keepers' Supplies at

**RED ROCK PRICES.**

WE MANUFACTURE

5 Styles of Hives, 6 Styles of Honey Extractors,  
7 Styles Foundation, Etc., 2 Styles of Smokers,  
2 Styles Wax Extractors, "V" Groove Sections, Etc  
**WE GUARANTEE OUR WORK FIRST-CLASS.**

Liberal Discount on Large Orders.

Send a Postal Card for our Illustrated Catalogue

ASPINWALL & TREADWELL, BARRYTOWN, N.Y.

## EGGS FOR HATCHING.

From two grand yards of W. F. Black Spanish and One yard of Light Bramahs. Eggs, \$2.00 for 13, or \$3.50 for 26. A few Fowl for sale. Send for circular.

G. H. SHEERES,  
Clarksburg, Ont.

## QUEENS. 1886. QUEENS.

Rared from Imported Mothers. Two, three, and four frame nuclei. Safe arrival and satisfaction guaranteed. Send for price list. Address

FRANK A. EATON, Bluffton, Ohio.

## BEE-KEEPER'S GUIDE,

OR

## MANUAL OF THE APIARY.

11,000 SOLD SINCE 1876.

The twelfth thousand just out. 10th thousand sold in just four months. 2,000 sold the past year. More than 50 pages and more than 50 costly illustrations were added in the 8th edition. It has been thoroughly revised and contains the very latest in respect to Bee-Keeping.

Price by mail, \$1.25. Liberal discount made to Dealers and to Clubs.

A. J. Cook, Author and Publisher

State Agricultural College Lansing, Mich

## NORTHSHADE APIARY

AND COMB FOUNDATION WORKS.

Prices greatly reduced. 50 to 100 colonies of choice Italian bees for spring delivery. Nuclei, queens, and bees by the pound, for the season. Foundation for sale. Wax worked by the pound, or for a share. Samples of foundation free. Send for price list.

O. H. TOWNSEND,  
Alamo, Mich., Kal. Co.

## Italian Bees and Queens.

Full Colonies, Nuclei and Queens, sent on short notice.

A. NEEDHAM  
Sarrento, Orange Co., Fla

## J. P. Connell, HILLSBORO, HILL CO., TEXAS.,

Makes a specialty of rearing Pure Italian Queens and of Shipping Bees in two, three, and four frame nuclei. My queens will be bred from the best imported mothers. Tested Queens, in March and April, \$2.50; after, \$2.00. Untested Queens, in April, \$1.25; after, \$1. Safe arrival and satisfaction guaranteed. **Send for circulars.**

## COMB FOUNDATION.

Headquarters in Canada. Four first premiums in two years. We are now entering our fourth year without one complaint. A. I. Root's Simplicity Hives & Supplies. Circulars free. WILL. ELLIS, St. David's, Ont.

## FOR SALE.

A number of colonies Italian bees bred from A. I. Root's queens, \$8 to \$10. Hatching eggs from pure bred W. F. B. Spanish, \$1.50 setting of 13, or \$2.50 for 2.

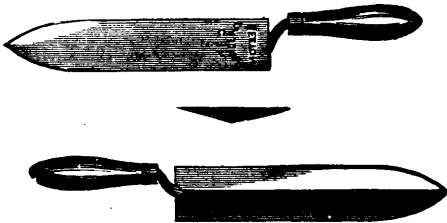
JAS. STEWART, Meaford, Ont.

**BUCKEYE SECTIONS, V. GROOVE**

White as snow, any size, very cheap. We manufacture the Scientific Bee Hive, shipped in the flat (body and frames) can be set up in five minutes without hammer or nails. This hive beats them all for honey. Send for circular to J. B. MURRAY, Ada, Ohio.

**HONEY KNIVES.**

We have just to hand a large shipment of honey knives from the makers, Lockwood Bros. Sheffield, England. These are undoubtedly the finest we have had...ade yet, being the most perfect in shape and neatness of manufacture.



These Knives are made of the Finest Razor Steel

- Ebony Polished Handle, mirror polish.....\$1 50
  - Ebony Polished Handle, glazed polish..... 1 25
  - Wood Polished Handle, glazed polish..... 1 00
- If by mail, add 25c extra for each knife.  
THE D. A. JONES CO., L.D., Beeton

**WHAT EVERYBODY WANTS.**

—THE—

**CHAMPION EGG TESTER.**

PRICE, 50 CENTS.



Use it at home, everywhere. Take it with you in your pocket when buying eggs. Save money and trade. Bad ones are seen at a glance. For incubating purposes they are far superior to anything out—durable, nice form, and will last a long time.

**THE CHICK'S HEART** can be seen beating through the shell in three days, and dead ones are plainly noticeable. After eggs have been under a hen or incubator for five days, the unfertile ones should be removed. This can be done by using an Egg Tester

We will send one of these Egg Testers free to every person sending us \$1.25, the price of one year's subscription to the "POULTRY MONTHLY," the best magazine of its kind. If you have already paid your subscription, induce one of your neighbors to subscribe, mail us the amount (\$1.25) and we will send you the Egg Tester free of charge for your trouble. Send for Price List of Poultry Supplies. Address

THE POULTRY MONTHLY.  
P. O. Box 215, Toronto, Canada.

**1884 POST TAR HEEL APIARIES. 1886**  
71-66.  
**ABBOTT L. SWINSON,**

PROPRIETOR

Goldsboro. Wayne Co. N.C., U.S.A.

Price list of warranted American Albino Italian, (the best Bees in America) Syrian and Carniolan Queens

|                             | For the Year 1886 | April | May   | June  | July & on |
|-----------------------------|-------------------|-------|-------|-------|-----------|
| Untested laying, each...    | \$1 50            | 1 00  | 1 00  | 1 00  | 1 00      |
| Untested laying, 1/2 doz... | 8 00              | 6 00  | 5 25  | 5 00  | 5 00      |
| Fine Tested Q's each...     | 3 00              | 2 50  | 2 25  | 2 00  | 2 00      |
| Fine Tested Q's 1/2 doz...  | 15 00             | 1     | 12 50 | 11 00 |           |

My AMERICAN ALBINO ITALIANS, all show 3 yellow bands and many the 4th and 5th, with an equal No. of white silvery bands of fine fuzz, these are my specialty for 1886. Syrians and Carniolans are bred from imported mothers of Mr. F. Benton. The Syrian was specially selected to order, for producing the gentlest and whitest banded bees to be found in Syria. Nuclei—Add 75 cents for each L. frame of Bees and brood to price of queen. Bees by pound, same price each month as untested queens. Pelham foundation 45c. and 55c a pound. Untested queens by April 15th. Circular free.

**NOW THEN ORDER.**

Having determined to devote my time exclusively to the production of

**PURE ITALIAN BEES & QUEENS**

the coming season, I am enabled to offer the following prices:

|   |        |
|---|--------|
| Tested Italian Queens.....                          | \$1 00 |
| Bees per lb.....                                    | 1 00   |
| One Frame Nuclei with Tested Queen, 1/2 lb.         |        |
| Bees and 1 Frame Brood.....                         | 2 00   |
| 2 Frame Nuclei, 1 lb. Bees & Tested Queen           | 3 00   |
| 3 " " " 1 1/2 " " " "                               | 4 00   |
| 4 " " " 2 " " " "                                   | 5 00   |
| 1 Tested Queen and 1 lb. Bees.....                  | 2 00   |
| 50 choice Colonies for Queen rearing for \$10 each. |        |

See what last season's customers say:

PENETANGUSHENE, CANADA.

Queen received all right. She is a noble looking queen and pleases me better than any I have yet received.

HARVY L. LEACH.

The queens are both giving satisfaction.

R. M. TAYLOR,

Port Dover, Can.

Those two queens I got from you are giving excellent satisfaction.

JNO. G. KNIDENGER,

Kilmanagh, Mich.

I am very much pleased with the tested queen I got from you last summer.

J. S. SEELEY,

Sodus Point, N.Y.

and hundreds of others.

I will commence mailing soon after May 1st and of course first orders are first filled, so order now. Terms cash with order. Safe arrival, and satisfaction guaranteed in every case. Sample of live workers free by mail.

**THOS. HORN.**

Box 1691, Sherburne, N. Y.

**FRIENDS** It you are in any way interested in  
**BEEES AND HONEY.**

We will with pleasure send you a sample copy of our **SEMI-MONTHLY GLEANINGS IN BEE CULTURE**, with a descriptive price-list of the latest improvements in HIVES, HONEY EXTRACTORS, COMB FOUNDATION, SECTION HONEY BOXES, all books and journals, and everything pertaining to Bee Culture. Nothing Patented. Simply send your address on a postal card, written plainly  
A. I. ROOT, Medina Ohio

**50 Colonies of Bees For Sale.**

Containing Queens raised from choice mothers. They are on straight selected frames, most of which are wired. The queen c occupy them nearly to the top bar. Prices as follows: One colony of bees on eight Jones' frames for delivery in May, \$9.00. Hives or boxes for shipping extra as follow: Box, suitable for shipping, 50c. [can be returned if desired]; a hive to hold 10 or 12 frames, \$1, or \$3 for my special storey and a half hive, 28 inches long inside, with one inch chaff space at the sides, contains 2 division boards, and has a special feeder whereby you can feed without removing cover or disturbing cushion. It is made of first-class material and well painted. With this hive the honey can remain until well ripened, as you can extract 50 lbs at one time.

G. A. DEADMAN,  
Druggist, etc., Brussels

**Beeton Printing & Publishing Co.**

**FINE BOOK, JOB, & LABEL PRINTING.**

Send for our FREE "Honey Label" circular. Printing furnished promptly, and neatly done. Estimates of "circular" and other work on application.

F. H. MACPHERSON,  
3-t.f. Manager, Beeton, Ont

**STANLEY'S**

**AUTOMATIC HONEY EXTRACTOR.**

The only self-reversing Honey Extractor known, will do double the amount of work of any other extractor. Send for new circulars, just out April 1st. Californians, send to Baker and Barnard, San Buenaventura, Ventura Co., Cal. Canadians, send to E. L. Goad & Co., Brantford, Ont. All others address

G. W. STANLEY, Wyoming, N. Y.

ESTABLISHED 1855.

**BEE SWAX HEADQUARTERS.**

We have constantly on hand a large stock of Domestic and Imported Bees-wax in original shape, which we offer to manufacturers of Comb Foundation at lowest prices. We guarantee all our beeswax absolutely pure. Write to us for prices. Address,

**R. ECKERMANN & WILL,**  
Beeswax Bleachers and Refiners. **Syracuse, N. Y.**

**NORWAY SPRUCE.**

Something for every Bee-Keeper. Shelter your Apiary. Large quantities at low prices. Send for price list.

**A. GILCHRIST,**  
GUELPH P. O., ONT

**BEE-HIVES, SECTIONS,**

**Foundation & Apiarian Supplies.**

Having a large stock of sections on hand we will fill orders in March at the following prices:

|               |                                    |        |
|---------------|------------------------------------|--------|
| 4 1/2 x 4 1/2 | in lots of 500 to 4,000, per 1,000 | \$5.00 |
| " "           | 5,000                              | 4.75   |
| " "           | 8,000                              | 4.50   |
| " "           | 12,000                             | 4.50   |

4 1/2 x 4 1/2, at same prices. All V-grooved.

Our Section-Cases and Shipping-Crates are as good as any in the market, and at correspondingly low prices. For description and prices of the **SUCCESS HIVE**, send for Price-List. Estimates given on all other hives

**QUEENS AND BEES FOR 1886.**

We make a specialty of rearing the **ALBINO QUEENS AND BEES.** Price-List free.  
S. VALENTINE & SON Hagerstown, Md.

**SECTIONS!**

**SECTIONS!**

**Baker's All-In-One-Piece !!**

|                   |          |                   |
|-------------------|----------|-------------------|
| 4 1/2 x 4 1/2 x 2 | to 1 1/2 | \$3.00 PER 1,000. |
| 5 1/2 x 5 1/2 x 2 | to 1 1/2 | \$4.00 PER 1,000. |

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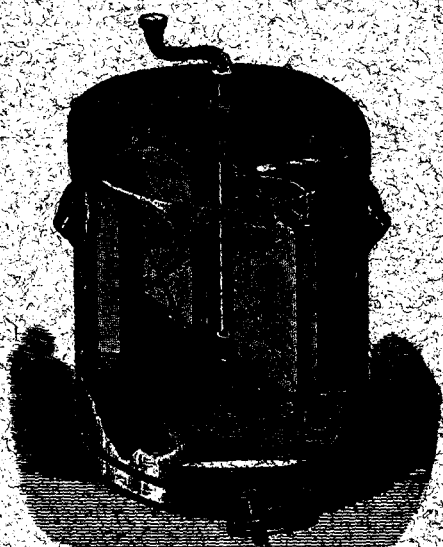
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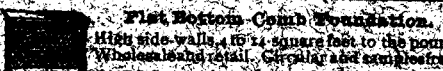
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